997 AWS Sites


Antarctic Automatic Weather Station Data for the calendar year 1997 Supplement
by
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February 2001

Scanner's note.
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February, 2001

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* TEMPERATURE (C) * MEAN $=-9.4$ STD DEV $=2.6$ MAX $=-4.2$ AT 2250 GMT ON DAY 21 MIN $=-17.1$ AT 500 GMT ON DAY 28
* THETA (K) * MEAN $=270.83$
* PRESSURE (MB) * MEAN $=911.4$ STD DEV $=5.4$ MAX $=920.4$ AT 640 GMT ON DAY 31 MIN $=900.5$ AT 910 GMT ON DAY 26
* WINDS (M/S) * MEAN $=4.6$ STD DEV $=2.7$ RESULTANT $=3.1$ FROM 18. CONSTANCY $=0.69$ MAX $=15.0$ FROM 187. AT 2020 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $64.5 \%$ PRESSURE: $64.5 \%$ WINDS: $64.5 \%$




| HR | PP | TT | VV | DD |
| :--- | :--- | ---: | :--- | :--- |
|  | DAY | 1 |  |  |


| 00 | 919 | -6 | 10 | 360 |
| :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllll}06 & 918 & -6 & 10 & 348\end{array}$
$\begin{array}{llllll}09 & 918 & -6 & 10 & 358\end{array}$
$\begin{array}{lllll}12 & 919 & -7 & 8 & 355\end{array}$
$\begin{array}{lllll}15 & 919 & -7 & 7 & 360\end{array}$
$\begin{array}{lllll}18 & 919 & -6 & 11 & 352\end{array}$
$\begin{array}{lllll}21 & 920 & -6 & 12 & 347\end{array}$ DAY 8
$\begin{array}{lllll}00 & 910 & -13 & 3 & 230\end{array}$
$\begin{array}{lllll}03 & 911 & -15 & 3 & 268\end{array}$
$\begin{array}{lllll}06 & 912 & -12 & 1 & 310\end{array}$
$\begin{array}{lllll}09 & 912 & -16 & 3 & 348\end{array}$
$\begin{array}{lllll}12 & 912 & -16 & 3 & 5\end{array}$
$\begin{array}{lllll}15 & 912 & -16 & 3 & 19\end{array}$
$\begin{array}{lllll}18 & 911 & -14 & 4 & 23\end{array}$
$\begin{array}{lllll}21 & 911 & -14 & 4 & 14\end{array}$ DAY 15
$\begin{array}{lllll}00 & 905 & -18 & 3 & 63\end{array}$
$\begin{array}{lllll}03 & 905 & -18 & 4 & 92\end{array}$
$\begin{array}{lllll}06 & 906 & -18 & 4 & 101\end{array}$
$\begin{array}{lllll}09 & 907 & -20 & 5 & 97\end{array}$
$\begin{array}{lllll}12 & 907 & -21 & 5 & 127\end{array}$
$\begin{array}{lllll}15 & 907 & -18 & 4 & 99\end{array}$
$\begin{array}{lllll}18 & 908 & -17 & 4 & 88\end{array}$
$\begin{array}{lllll}21 & 908 & -13 & 3 & 49\end{array}$
DAY 22
$\begin{array}{lllll}00 & 902 & -8 & 8 & 336\end{array}$
$\begin{array}{llll}03 & 902 & -9 & 5 \\ 347\end{array}$
$\begin{array}{lllll}06 & 901 & -11 & 7 & 16\end{array}$
$\begin{array}{lllll}09 & 901 & -10 & 8 & 11\end{array}$
$\begin{array}{lllll}12 & 901 & -11 & 4 & 5\end{array}$
$\begin{array}{lllll}15 & 902 & -10 & 3 & 329\end{array}$
$\begin{array}{llll}18 & 903 & -10 & 5 \\ 309\end{array}$
$\begin{array}{llll}21 & 904 & -10 \quad 5 \quad 295\end{array}$

| PP TT VV DD | PP TT VV DD |  |
| ---: | ---: | ---: | ---: | ---: |
| DAY 2 |  | DAY 3 |


| PP | TT | VV DD |
| :---: | :---: | :---: |
|  | DAY | 4 |
| 919 | -5 | 8333 |
| 918 | -5 | 5358 |
| 918 | -6 | 654 |
| 916 | -6 | 104 |
| 916 | -6 | 10355 |
| 916 | -6 | 8338 |
| 916 | -6 | 11326 |
| 917 | -5 | 11330 |
|  | DAY | 11 |
| 915 | -18 | 3300 |
| 915 | -19 | 3300 |
| 915 | -15 | 00 |
| 915 | -17 | 25 |
| 915 | -19 | 323 |
| 914 | -18 | 315 |
| 913 | -18 | 422 |
| 913 | -18 | 325 |
|  | DAY | 18 |
| 912 | -16 | 5126 |
| 911 | -16 | 4109 |
| 910 | -16 | 542 |
| 908 | -18 | 71 |
| 908 | -18 | 4343 |
| 907 | -19 | 411 |
| 909 | -18 | 5239 |
| 911 | -20 | 8237 |
|  | DAY | 25 |
| 914 | -20 | 1191 |
| 915 | -17 | 00 |
| 916 | -19 | 00 |
| 918 | -22 | 3307 |
| 919 | -23 | 2307 |
| 920 | -20 | 3302 |
| 921 | -19 | 236 |
| 922 | -20 | 232 |


| DAY |  | vv | DD | PP |  |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 5 |  | DAY 6 |  |  |  | DAY |  |  |  |
| 918 | -5 | 10 | 344 | 919 | -6 | 7 | 358 | 912 | -8 | 5 | 334 |
| 918 | -6 | 9 | 352 | 918 | -7 | 5 | 2 | 910 | -8 | 4 | 16 |
| 919 | -6 | 11 | 1 | 918 | -8 | 4 | 35 | 909 | -8 | 7 | 341 |
| 918 | -6 | 10 | 358 | 917 | -8 | 5 | 350 | 907 | -8 | 6 | 8 |
| 918 | -6 | 11 | 347 | 916 | -8 | 5 | 317 | 906 | -8 | 6 | 355 |
| 919 | -7 | 7 | 331 | 915 | -7 | 4 | 324 | 906 | -13 | 5 | 180 |
| 919 | -6 | 7 | 337 | 914 | -7 | 5 | 358 | 908 | -14 | 7 | 199 |
| 918 | -6 | 7 | 355 | 913 | -8 | 5 | 302 | 909 | -14 | 6 | 225 |
| DAY 12 |  |  |  | DAY 13 |  |  |  | DAY 14 |  |  |  |
| 912 | -16 | 3 | 45 | 903 | -12 | 1 | 250 | 900 | -13 | 1 | 19 |
| 911 | -15 | 3 | 66 | 903 | -14 | 2 | 274 | 900 | -18 | 3 | 23 |
| 910 | -15 | 3 | 50 | 902 | -16 | 3 | 320 | 901 | -20 | 4 | 36 |
| 908 | -17 | 3 | 52 | 901 | -18 | 2 | 42 | 901 | -25 | 5 | 42 |
| 907 | -16 | 1 | 59 | 901 | -17 | 0 | 0 | 902 | -25 | 5 | 43 |
| 906 | -15 | 2 | 63 | 900 | -14 | 1 | 125 | 903 | -23 | 5 | 42 |
| 905 | -13 | 1 | 60 | 899 | -15 | 2 | 98 | 903 | -20 | 4 | 39 |
| 904 | -11 | 0 | 0 | 900 | -12 | 0 | 0 | 904 | -18 | 4 | 37 |
| DAY 19 |  |  |  | DAY 20 |  |  |  | DAY 21 |  |  |  |
| 914 | -21 | 6 | 237 | 920 | -19 | 7 | 26 | 904 | -13 | 7 | 22 |
| 917 | -21 | 4 | 251 | 919 | -21 | 8 | 36 | 903 | -12 | 6 | 7 |
| 918 | -20 | 4 | 215 | 917 | -22 | 6 | 36 | 903 | -12 | 6 | 1 |
| 920 | -21 | 2 | 333 | 915 | -20 | 7 | 43 | 902 | -9 | 7 | 351 |
| 921 | -21 | 4 | 11 | 912 | -19 | 9 | 50 | 902 | -8 | 9 | 331 |
| 921 | -21 | 5 | 8 | 908 | -20 | 7 | 57 | 901 | -9 | 10 | 348 |
| 921 | -21 | 7 | 4 | 906 | -17 | 6 | 39 | 901 | -9 | 8 | 329 |
| 921 | -20 | 7. | 12 | 905 | -15 | 5 | 23 | 901 | -8 | 11 | 334 |
| DAY 26 |  |  |  | DAY 27 |  |  |  | DAY 28 |  |  |  |
| 922 | -19 | 3 | 40 | 916 | -20 | 6 | 42 | 896 | -18 | 6 | 1 |
| 922 | -20 | 3 | 42 | 914 | -19 | 9 | 64 | 894 | -18 | 5 | 357 |
| 922 | -21 | 3 | 66 | 912 | -20 | 11 | 67 | 893 | -17 | 5 | 355 |
| 921 | -22 | 3 | 56 | 908 | -20 | 13 | 80 | 892 | -14 | 3 | 330 |
| 920 | -21 | 3 | 60 | 905 | -21 | 13 | 64 | 890 | -14 | 1 | 47 |
| 919 | -20 | 3 | 74 | 901 | -23 | 7 | 81 | 889 | -14 | 2 | 47 |
| 918 | -19 | 5 | 77 | 899 | -22 | 5 | 37 | 889 | -12 | 2 | 46 |
| 917 | -18 | 8 | 49 | 898 | -21 | 4 | 21 | 889 | -11 | 2 | 47 |

## MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-14.2$ StD deV $=5.3$ MAX $=-4.4$ AT 2140 GMT ON DAY 2 MIN $=-25.8$ AT 930 GMT ON DAY 14
* theta (K) * MEAN $=266.03$
* PRESSURE (MB) * MEAN $=910.8$ STD DEV $=7.5$ MAX $=923.7$ AT 900 GMT ON DAY 2 MIN $=888.9$ AT 1900 GMT ON DAY 28 * WINDS (M/S) * MEAN $=4.8$ STD DEV $=2.8$ RESULTANT $=2.9$ FROM 8 . CONSTANCY $=0.60 \mathrm{MAX}=15.0$ FROM 84. AT 1000 GMT DAY 27 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 19 & 11 & 16 & 9 & 5 & 1 & 2 & 0 & 2 & 3 & 4 & 3 & 2 & 4 & 5 & 13\end{array}$


* TEMPERATURE (C) * MEAN $=-21.5$ STD DEV $=5.8$ MAX $=-8.1$ AT 200 GMT ON DAY 1 MIN $=-35.6$ AT 2030 GMT ON DAY 30
* THETA (K) * MEAN $=259.66$
* PRESSURE (MB) * MEAN $=896.0$ STD DEV $=10.6$ MAX $=918.0$ AT 1210 GMT ON DAY 25 MIN $=870.2$ AT 1720 GMT ON DAY 28 * WINDS (M/S) * MEAN $=4.1 \mathrm{STD}$ DEV $=2.2$ RESULTANT $=1.5$ FROM 41. CONSTANCY $=0.37$ MAX $=11.7$ FROM 53. AT 1210 GMT DAY 30 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \% \quad$ WINDS: $11.7 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 60 \\ \text { PERCENT: } & 15 & 41 & 26 & 14 & 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

APR 97
HR PP TT VV DD

|  |  | DAY | 1 |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 881 | -30 |  |  |
| 03 | 882 | -29 |  |  |
| 06 | 882 | -28 | 8 | 54 |
| 09 | 882 | -33 | 6 | 340 |
| 12 | 885 | -38 | 6 | 12 |
| 15 | 888 | -39 | 7 | 32 |
| 18 | 891 | -37 | 5 | 19 |
| 21 | 893 | -33 | 2 | 39 |
|  |  | DAY | 8 |  |
| 00 | 899 | -34 | 4 | 268 |
| 03 | 901 | -34 | 6 | 324 |
| 06 | 903 | -34 | 4 | 354 |
| 09 | 904 | -32 | 6 | 327 |
| 12 | 905 | -29 | 7 | 341 |
| 15 | 906 | -30 | 4 | 355 |
| 18 | 907 | -30 | 3 | 334 |
| 21 | 907 | -30 | 4 | 360 |

- DAY 15
$\begin{array}{lllll}00 & 892 & -30 & 0 & 0\end{array}$
$\begin{array}{lll}03 & 892 & -31\end{array}$
$06 \quad 892$ - 31
$\begin{array}{lll}09 & 891 & -31\end{array}$
$\begin{array}{ll}12 \quad 890 & -30\end{array}$
$\begin{array}{ll}15 & 891\end{array}$-39
$\begin{array}{lllll}18 & 892 & -38 & 4 & 40\end{array}$
$\begin{array}{lllll}21 & 895 & -36 & 4 & 47\end{array}$
DAY 22
00 913-22
$03 \quad 912-23$
$\begin{array}{llll}06 & 912 & -28 & 4 \\ 3 & 377\end{array}$
$\begin{array}{llll}09 & 911 & -28 & 4 \\ 201\end{array}$
$\begin{array}{lllll}12 & 911 & -31 & 5 & 307\end{array}$
$\begin{array}{llll}15 & 911 & -37 & 4 \\ 312\end{array}$
$\begin{array}{lllll}18 & 911 & -40 & 5 & 300\end{array}$
$\begin{array}{llll}21 & 912 & -34 & 7307\end{array}$


## DAY 29

$00 \quad 894-36$
$\begin{array}{llll}03 & 893 & -35\end{array}$
06 893-36
$\begin{array}{lll}09 & 891 & -37\end{array}$
$12 \quad 890-38$
$\begin{array}{lll}15 & 888 & -38\end{array}$
$\begin{array}{lll}18 & 887 & -40\end{array}$
$\begin{array}{ll}21 & 887-37\end{array}$

| PP | TT | VV | DD | PP | TT VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY | 2 |  |  | DAY | 3 |  | $\begin{array}{llllllll}907 & -29 & 3 & 23 & 899 & -26 & 2 & 49\end{array}$

$\begin{array}{llllllll}906 & -28 & 2 & 19 & 898 & -27 & 3 & 53\end{array}$ $\begin{array}{llllllll}905 & -27 & 2 & 26 & 897 & -27 & 2 & 67\end{array}$ $\begin{array}{llllllll}904 & -25 & 2 & 12 & 896 & -26 & 3 & 88\end{array}$ $\begin{array}{lllllll}903 & -23 & 2 & 327 & 895 & -29 & 3\end{array} 82$ $\begin{array}{lllllll}902 & -24 & 2 & 352 & 894 & -26 & 3\end{array} 84$ $\begin{array}{llllllll}901 & -25 & 2 & 16 & 892 & -29 & 3 & 102\end{array}$ $\begin{array}{lllllll}900 & -25 & 2 & 319 & 891 & -31 & 3\end{array} 120$

## DAY 17

904-32
905-38
906-38
$\begin{array}{llll}907 & -39 & 0 & 0\end{array}$
908-38 0
910-40 0 0
912-41 0
913-42
DAY 24
894-21 246 $894-20 \quad 3 \quad 275$ 896-26 3275 899-29 4275 903-35 4274 906-43 3272 908-44 0 0 909-39 0 0

| PP | TT | VV | DD |
| :--- | :--- | :--- | :--- |
| DAY | 4 |  |  |
| 898 | -24 |  |  |
| 898 | -32 |  |  |
| 898 | -36 |  |  |
| 898 | -35 |  |  |
| 898 | -28 |  |  |
| 897 | -25 |  |  |
| 895 | -25 |  |  |
| 893 | -23 |  |  |

$\begin{array}{lll}898 & -24 \\ 898 & -32 \\ 898 & -36 & \\ 898 & -35 \\ 898 & -28 \\ 897 & -25 \\ 895 & -25 \\ 893 & -23 \\ \text { DAY } & 11 \\ 890 & -30 & 3\end{array}$
PP TT VV DD

890-30 3129
$\begin{array}{llll}889 & -30 & 3 & 161\end{array}$
$\begin{array}{llll}887 & -30 & 3154\end{array}$
887-30
888-29
888-30
889-31
$890-30$
DAY 18
915-41
916-41
918-40
918-39
919-40
920-40
920-39
919-38
DAY 25
908-35
$\begin{array}{llll}903 & -29 & 8 & 78\end{array}$
898-25 $7 \quad 50$
894-22 719
892-19 921
$890-1510 \quad 5$
891-14 12284
$895-2611285$

| PP |  |  | DD | PP | TT |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 890 | -23 |  |  | 896 | -33 | 4 | 23 | 887 | -22 | 3 | 40 |
| 886 | -21 |  |  | 896 | -33 | 5 | 42 | 888 | -25 | 4 | 37 |
| 883 | -22 |  |  | 895 | -26 | 4 | 47 | 890 | -23 | 3 | 30 |
| 887 | -35 | 8 | 23 | 894 | -22 | 2 | 61 | 891 | -23 | 6 | 28 |
| 891 | -35 | 7 | 26 | 891 | -21 | 5 | 136 | 892 | -25 | 7 | 28 |
| 893 | -28 | 5 | 54 | 888 | -21 | 5 | 123 | 892 | -27 | 7 | 22 |
| 893 | -23 | 6 | 60 | 885 | -19 | 3 | 49 | 894 | -27 | 6 | 23 |
| 895 | -30 | 4 | 348 | 885 | -24 | 4 | 25 | 896 | -32 | 6 | 9 |
|  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 891 | -31 |  |  | 894 | -32 |  |  | 891 | -37 |  |  |
| 891 | -33 |  |  | 893 | -33 |  |  | 890 | -37 |  |  |
| 891 | -32 |  |  | 893 | -34 |  |  | 890 | -37 |  |  |
| 892 | -33 |  |  | 893 | -36 |  |  | 890 | -39 |  |  |
| 893 | -29 |  |  | 892 | -36 |  |  | 889 | -38 |  |  |
| 893 | -30 |  |  | 891 | -37 |  |  | 889 | -37 |  |  |
| 894 | -30 |  |  | 891 | -36 |  |  | 890 | -34 |  |  |
| 894 | -31 |  |  | 891 | -35 |  |  | 891 | -29 | 0 | 0 |
|  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 919 | -31 |  |  | 918 | -28 | 2 | 71 | 911 | -27 | 3 | 140 |
| 918 | -33 | 0 | 0 | 917 | -31 | 2 | 123 | 911 | -23 | 3 | 97 |
| 918 | -31 | 0 | 0 | 916 | -34 | 2 | 105 | 912 | -21 | 2 | 88 |
| 918 | -32 |  |  | 914 | -32 | 2 | 66 | 912 | -19 | 2 | 108 |
| 918 | -33 | 2 | 137 | 914 | -31 | 2 | 81 | 912 | -22 | 0 | 0 |
| 919 | -33 | 2 | 104 | 913 | -27 | 2 | 80 | 912 | -19 | 0 | 0 |
| 918 | -32 | 2 | 116 | 912 | -25 | 3 | 101 | 913 | -20 |  |  |
| 918 | -33 | 2 | 127 | 911 | -28 | 3 | 132 | 913 | -21 |  |  |
|  | DAY | 26 |  |  |  | 27 |  |  |  | 28 |  |
| 898 | -29 | 10 | 317 | 894 | -21 |  |  | 898 | -38 | 7 | 32 |
| 900 | -31 | 7 | 5 | 892 | -22 |  |  | 899 | -40 | 4 | 32 |
| 901 | -30 | 5 | 15 | 890 | -23 |  |  | 899 | -39 | 3 | 32 |
| 900 | -27 | 1 | 46 | 889 | -20 |  |  | 897 | -38 | 3 | 33 |
| 899 | -28 |  |  | 889 | -24 | 6 | 336 | 895 | -37 | 3 | 122 |
| 897 | -29 |  |  | 892 | -30 | 16 | 324 | 894 | -35 |  |  |
| 897 | -26 |  |  | 895 | -34 | 14 | 315 | 893 | -34 |  |  |
| 896 | -21 |  |  | 897 | -38 | 8 | 337 | 894 | -35 |  |  |

* temperature ( $C$ ) * mean $=-30.8$ std dev $=6.1$ maX $=-12.8$ at 1700 GMT ON DAY 25 min $=-46.2$ at 1650 GMt ON DAY 24
* theta (K) * MEAN = 249.92
* PRESSURE (MB) * MEAN $=898.6$ STD DEV $=9.5$ MAX $=919.7$ at 1540 GMT ON DAY 18 MIN $=880.9$ at 10 GMt ON DAY 1
* WINDS ( $\mathrm{M} / \mathrm{S}$ ) * MEAN $=3.8 \mathrm{STD}$ DEV $=3.0$ RESULTANT $=2.3 \mathrm{FROM} 14$. CONSTANCY $=0.61 \mathrm{mAX}=16.0$ fROM 307. AT 1430 GMT DAY 27
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $42.5 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
percent

$$
\begin{array}{llllllllllllllll}
8 & 24 & 17 & 5 & 7 & 8 & 5 & 2 & 0 & 1 & 0 & 0 & 5 & 3 & 7 & 9
\end{array}
$$



* TEMPERATURE (C) * MEAN $=-30.1$ STD DEV $=8.5$ MAX $=-10.1$ AT 800 GMT ON DAY 16 MIN $=-49.5$ AT 1800 GMT ON DAY 11
* THETA (K) * MEAN $=251.43$
* PRESSURE (MB) * MEAN $=888.6$ STD DEV $=8.4$ MAX $=906.2$ AT 350 GMT ON DAY 17 MIN $=869.9$ AT 330 GMT ON DAY 23
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT O GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $76.6 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT
HR PP TT VV DD

| HR | PP | TT | V | DD |
| :--- | :--- | :--- | :--- | :--- |
|  |  | DAY | 1 |  |
| 00 | 904 | -25 |  |  |
| 03 | 902 | -25 |  |  |
| 06 | 902 | -24 |  |  |
| 09 | 901 | -24 |  |  |
| 12 | 900 | -24 |  |  |
| 15 | 899 | -23 |  |  |
| 18 | 899 | -23 |  |  |
| 21 | 899 | -23 |  |  |


|  |  | DAY | 8 |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 895 | -24 | 11 | 14 |

$\begin{array}{lllll}03 & 899 & -24 & 12 & 9\end{array}$
$\begin{array}{lllll}06 & 901 & -24 & 10 & 7\end{array}$
$\begin{array}{lllll}09 & 902 & -23 & 9 & 11\end{array}$
$\begin{array}{lllll}12 & 902 & -23 & 1 & 21\end{array}$
$\begin{array}{lllll}15 & 898 & -23 & 1 & 22\end{array}$
$\begin{array}{lllll}18 & 892 & -22 & 1 & 56\end{array}$
$\begin{array}{lllll}21 & 885 & -17 & 10 & 116\end{array}$
DAY 15
$\begin{array}{lllll}00 & 902 & -24 & 11344\end{array}$
$\begin{array}{llllll}03 & 905 & -25 & 13 & 316\end{array}$
$06 \quad 906-23 \quad 16 \quad 333$
$09 \quad 907-24 \quad 18 \quad 329$
$\begin{array}{llllll}12 & 908 & -24 & 15 & 305\end{array}$
$\begin{array}{lllll}15 & 909 & -26 & 14 & 355\end{array}$
$\begin{array}{llllll}18 & 909 & -27 & 11 & 323\end{array}$
$\begin{array}{llll}21 & 910 & -27 & 7 \\ 285\end{array}$

|  | 00 | DAY |
| :---: | :---: | :---: |

$03 \quad 920-20$
$06 \quad 919-20$
$09 \quad 917-23$
$12 \quad 916-24$
$15 \quad 915-26$
18 914-20
$\begin{array}{ll}21 & 912-20\end{array}$
$\begin{array}{lrr} & & \text { DAY } \\ 00 & 915 & -33\end{array}$
$\begin{array}{lll}03 & 913 & -32\end{array}$
06 911-32
$09 \quad 910$ - 31
$\begin{array}{llll}12 & 909 & -32 & 905\end{array}-32$
$\begin{array}{lllll}15 & 908 & -30 & 903 & -34\end{array}$
$\begin{array}{llll}18 & 908 & -29 & 901\end{array}-33$
$\begin{array}{llll}21 & 908 & -30 & 899\end{array}$

PP TT WV DD PP TT WV DD PP TT WV DD

| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 906 | -23 |  |  | 898 | -21 |  |  | 900 | -21 |  |  | 881 | -15 |  |  |
| 905 | -21 |  |  | 897 | -23 |  |  | 902 | -21 |  |  | 882 | -18 |  |  |
| 903 | -20 |  |  | 897 | -22 |  |  | 902 | -23 |  |  | 882 | -15 | 15 | 39 |
| 902 | -19 |  |  | 897 | -23 |  |  | 902 | -18 |  |  | 884 | -18 | 8 | 23 |
| 900 | -20 |  |  | 896 | -23 |  |  | 899 | -16 |  |  | 889 | -20 | 10 | 351 |
| 899 | -21 |  |  | 896 | -24 |  |  | 895 | -17 |  |  | 888 | -23 | 11 | 4 |
| 898 | -20 |  |  | 897 | -27 |  |  | 890 | -15 |  |  | 890 | -24 | 13 | 4 |
| 898 | -20 |  |  | 899 | -23 |  |  | 885 | -13 |  |  | 893 | -23 | 11 | 11 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 897 | -17 | 5 | 14 | 896 | -20 |  |  | 882 | -15 |  |  | 888 | -20 | 7 | 18 |
| 897 | -17 | 5 | 324 | 897 | -20 |  |  | 880 | -17 |  |  | 886 | -20 | 7 | 358 |
| 896 | -16 | 3 | 22 | 896 | -17 |  |  | 881 | -20 | 8 | 28 | 885 | -22 | 4 | 354 |
| 895 | -18 |  |  | 895 | -16 |  |  | 881 | -19 | 11 | 25 | 885 | -23 | 7 | 354 |
| 894 | -17 |  |  | 893 | -14 |  |  | 884 | -20 | 18 | 21 | 886 | -23 | 8 | 352 |
| 893 | -18 |  |  | 891 | -15 |  |  | 886 | -19 | 14 | 16 | 889 | -27 | 8 | 329 |
| 894 | -19 |  |  | 891 | -17 |  |  | 887 | -20 | 14 | 22 | 893 | -26 | 10 | 352 |
| 895 | -21 |  |  | 887 | -16 |  |  | 889 | -20 | 8 | 25 | 897 | -24 | 13 | 326 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 903 | -25 |  |  | 909 | -15 | 0 | 0 | 911 | -14 |  |  | 906 | -16 |  |  |
| 903 | -21 |  |  | 910 | -16 | 1 | 5 | 912 | -15 |  |  | 906 | -14 |  |  |
| 904 | -19 |  |  | 912 | -15 | 3 | 7 | 912 | -16 |  |  | 907 | -20 |  |  |
| 906 | -19 |  |  | 913 | -11 |  |  | 912 | -15 |  |  | 910 | -20 |  |  |
| 907 | -20 |  |  | 913 | -12 |  |  | 912 | -18 |  |  | 914 | -19 |  |  |
| 908 | -20 |  |  | 913 | -14 |  |  | 910 | -16 |  |  | 917 | -18 |  |  |
| 908 | -18 |  |  | 912 | -13 |  |  | 909 | -18 |  |  | 920 | -17 |  |  |
| 908 | -17 |  |  | 911 | -13 |  |  | 908 | -16 |  |  | 922 | -17 |  |  |
|  | DAY | 25 |  |  |  | 26 |  |  |  | 27 |  |  |  | 28 |  |
| 914 | -30 |  | 315 | 914 | -31 |  |  | 915 | -37 |  |  | 917 | -33 |  |  |
| 914 | -31 |  |  | 913 | -31 |  |  | 915 | -40 |  |  | 917 | -35 |  |  |
| 915 | -29 |  |  | 912 | -31 |  |  | 915 | -38 |  |  | 917 | -36 |  |  |
| 916 | -29 |  |  | 911 | -31 |  |  | 916 | -38 |  |  | 917 | -37 |  |  |
| 917 | -29 |  |  | 912 | -31 |  |  | 916 | -37 |  |  | 917 | -38 |  |  |
| 916 | -28 |  |  | 913 | -33 |  |  | 916 | -36 |  |  | 917 | -37 |  |  |
| 916 | -28 |  |  | 913 | -35 |  |  | 916 | -36 |  |  | 916 | -36 |  |  |
| 915 | -28 |  |  | 914 | -34 |  |  | 916 | -34 |  |  | 916 | -34 |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-23.1$ STD dev $=6.1$ MAX $=-10.6$ AT 800 GMT ON DAY 19 min $=-40.2$ at 240 GMT ON dAY 27
* theta (K) * MEAN $=257.53$
* PRESSURE (MB) * MEAN $=902.5$ STD DEV $=10.6$ MAX $=921.8$ at 2130 GMT ON DAY 21 MIN $=873.5$ at 510 GMt ON DAY 9
* WINDS (M/S) * MEAN $=7.4$ STD DEV $=4.5$ RESULTANT $=6.3$ FROM 360 . CONSTANCY $=0.85$ MAX $=21.1$ FROM 340 . AT 650 GMT DAY 15
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $71.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{lllllllllllllllllllllllll}\text { PERCENT: } & 13 & 16 & 13 & 16 & 13 & 13 & 7 & 6 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 29 & 34 & 3 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 24 & 6\end{array}$


* TEMPERATURE (C) * MEAN $=-32.0$ STD DEV $=8.1$ MAX $=-14.4$ AT 920 GMT ON DAY 8 MIN $=-52.1$ AT 910 GMT ON DAY 30
* THETA (K) * MEAN $=249.09$
* PRESSURE (MB) * MEAN $=892.8$ STD DEV $=9.0$ MAX $=909.2$ AT 1920 GMT ON DAY 12 MIN $=859.3$ AT 2320 GMT ON DAY 10
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $76.6 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW


| AUG | 97 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HR | PP | TT | vV | DD | PP | TT | V | DD | PP |  | W | DD |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | day | 3 |  |
| 00 | 896 | -44 | 1 | 15 | 880 | -35 | 17 | 354 | 887 | -41 |  |  |
| 03 | 893 | -37 | 3 | 26 | 884 | -37 | 18 | 288 | 880 | -38 |  |  |
| 06 | 887 | -32 | 2 | 26 | 888 | -42 | 9 | 307 | 876 | -33 |  |  |
| 09 | 883 | -27 | 1 | 29 | 892 | -44 | 5 | 319 | 875 | -31 |  |  |
| 12 | 877 | -22 | 10 | 32 | 895 | -39 |  |  | 875 | -32 |  |  |
| 15 | 875 | -15 | 15 | 331 | 895 | -39 |  |  | 878 | -35 |  |  |
| 18 | 877 | -24 | 14 | 309 | 895 | -39 |  |  | 882 | -46 |  |  |
| 21 | 878 | -32 | 17 | 282 | 892 | -44 |  |  | 888 | -43 |  |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 876 | -41 |  |  | 863 | -48 | 11 | 73 | 885 | -38 | 0 | 0 |
| 03 | 873 | -43 |  |  | 868 | -48 | 10 | 66 | 881 | -23 | 15 | 59 |
| 06 | 869 | -46 |  |  | 874 | -47 | 11 | 67 | 880 | -20 | 16 | 43 |
| 09 | 863 | -45 |  |  | 881 | -47 | 8 | 73 | 880 | -22 | 16 | 64 |
| 12 | 855 | -42 |  |  | 886 | -47 |  |  | 881 | -22 | 17 | 56 |
| 15 | 847 | -35 | 6 | 92 | 890 | -48 |  |  | 882 | -23 | 18 | 43 |
| 18 | 850 | -50 | 14 | 78 | 893 | -44 |  |  | 883 | -24 | 18 | 43 |
| 21 | 856 | -51 | 14 | 73 | 892 | -39 |  |  | 885 | -29 | 10 | 35 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 902 | -38 | 3 | 39 | 876 | -37 | 6 | 50 | 891 | -32 |  |  |
| 03 | 900 | -38 | 3 | 45 | 877 | -38 | 9 | 11 | 893 | -37 |  |  |
| 06 | 896 | -36 | 3 | 46 | 880 | -41 | 9 | 8 | 896 | -34 |  |  |
| 09 | 891 | -33 | 1 | 47 | 884 | -36 | 9 | 5 | 898 | -37 |  |  |
| 12 | 885 | -28 | 2 | 49 | 886 | -29 | 9 | 347 | 898 | -35 | 5 | 18 |
| 15 | 880 | -30 |  |  | 887 | -30 | 10 | 21 | 896 | -30 | 4 | 21 |
| 18 | 877 | -28 | 1 | 50 | 888 | -28 | 8 | 5 | 894 | -27 | 6 | 23 |
| 21 | 875 | -34 | 2 | 52 | 890 | -30 | 7 | 5 | 892 | -26 | 5 | 25 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 902 | -32 |  |  | 902 | -33 |  |  | 887 | -37 |  |  |
| 03 | 902 | -31 |  |  | 900 | -34 |  |  | 888 | -36 |  |  |
| 06 | 903 | -30 |  |  | 898 | -36 |  |  | 889 | -33 |  |  |
| 09 | 903 | -34 |  |  | 896 | -33 |  |  | 891 | -38 |  |  |
| 12 | 904 | -35 |  |  | 894 | -32 |  |  | 894 | -40 |  |  |
| 15 | 904 | -33 |  |  | 892 | -37 |  |  | 895 | -42 |  |  |
| 18 | 904 | -33 |  |  | 890 | -39 |  |  | 896 | -42 |  |  |
| 21 | 903 | -32 |  |  | 888 | -40 |  |  | 896 | -39 |  |  |
|  |  | DAY |  |  |  | DAY |  |  |  |  |  |  |
| 00 | 904 | -39 |  |  | 896 | -32 |  |  | 895 | -23 | 0 | 0 |
| 03 | 902 | -37 |  |  | 896 | -32 |  |  | 894 | -24 | 0 | 0 |
| 06 | 901 | -35 |  |  | 896 | -29 | 0 | 0 | 894 | -25 |  |  |
| 09 | 899 | -35 |  |  | 895 | -26 | 0 | 0 | 893 | -24 |  |  |
| 12 | 898 | -36 |  |  | 895 | -27 | 0 | 0 | 893 | -25 |  |  |
| 15 | 897 | -38 |  |  | 895 | -26 | 0 | 0 | 892 | -24 |  |  |
| 18 | 896 | -36 |  |  | 895 | -27 | 1 | 47 | 892 | -24 |  |  |
| 21 | 896 | -35 |  |  | 895 | -25 | 2 | 32 | 891 | -26 |  |  |


| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 891 | -44 | 1 | 40 | 894 | -45 |  |  | 866 | -50 | 2 | 46 | 868 | -46 | 4 | 26 |
| 894 | -46 | 2 | 46 | 891 | -46 |  |  | 866 | -54 | 6 | 46 | 868 | -51 | 4 | 36 |
| 895 | -46 | 4 | 32 | 887 | -45 |  |  | 868 | -58 |  |  | 869 | -44 | 3 | 37 |
| 896 | -44 | 3 | 30 | 883 | -47 |  |  | 869 | -48 |  |  | 870 | -43 | 2 | 33 |
| 896 | -41 | 0 | 0 | 878 | -48 |  |  | 870 | -42 |  |  | 872 | -42 | 3 | 21 |
| 896 | -44 | 0 | 0 | 874 | -49 |  |  | 870 | -44 | 0 | 0 | 873 | -42 | 0 | 0 |
| 896 | -41 | 0 | 0 | 869 | -48 |  |  | 869 | -46 |  |  | 875 | -40 | 3 | 21 |
| 895 | -40 |  |  | 867 | -52 |  |  | 868 | -43 | 1 | 35 | 876 | -40 |  |  |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 891 | -35 |  |  | 898 | -35 |  |  | 883 | -34 |  |  | 887 | -31 |  |  |
| 895 | -39 |  |  | 896 | -37 |  |  | 882 | -37 |  |  | 889 | -33 |  |  |
| 897 | -34 |  |  | 894 | -36 |  |  | 883 | -40 |  |  | 893 | -40 |  |  |
| 898 | -35 |  |  | 892 | -35 |  |  | 884 | -41 |  |  | 896 | -37 | 11 | 1 |
| 898 | -36 |  |  | 890 | -31 |  |  | 885 | -38 |  |  | 899 | -40 | 6 | 16 |
| 898 | -36 |  |  | 888 | -33 |  |  | 886 | -29 |  |  | 901 | -39 | 5 | 37 |
| 898 | -34 |  |  | 886 | -27 |  |  | 886 | -28 |  |  | 902 | -39 | 6 | 28 |
| 899 | -34 |  |  | 884 | -31 |  |  | 886 | -29 |  |  | 903 | -39 | 4 | 39 |
|  | DAY | 18 |  |  | DAY |  |  |  |  | 20 |  |  | DAY | 21 |  |
| 891 | -25 | 2 | 25 | 892 | -27 |  |  | 895 | -34 |  |  | 895 | -33 |  |  |
| 890 | -23 | 0 | 0 | 895 | -28 |  |  | 894 | -36 |  |  | 896 | -33 |  |  |
| 889 | -22 |  |  | 897 | -33 |  |  | 893 | -32 |  |  | 897 | -32 |  |  |
| 888 | -23 |  |  | 899 | -34 |  |  | 892 | -32 |  |  | 899 | -31 |  |  |
| 887 | -21 |  |  | 901 | -32 |  |  | 893 | -32 |  |  | 900 | -31 |  |  |
| 887 | -26 |  |  | 900 | -28 |  |  | 893 | -31 |  |  | 901 | -31 |  |  |
| 887 | -27 |  |  | 899 | -29 |  |  | 894 | -32 |  |  | 902 | -32 |  |  |
| 889 | -28 |  |  | 897 | -33 |  |  | 895 | -32 |  |  | 902 | -30 |  |  |
|  |  | 25 |  |  | DAY |  |  |  |  | 27 |  |  | DAY | 28 |  |
| 895 | -37 |  |  | 892 | -30 |  |  | 895 | -44 |  |  | 899 | -36 |  |  |
| 893 | -38 |  |  | 892 | -29 |  |  | 894 | -45 | 3 | 19 | 901 | -36 |  |  |
| 892 | -38 |  |  | 893 | -33 |  |  | 893 | -43 | 2 | 19 | 902 | -37 |  |  |
| 891 | -36 |  |  | 894 | -37 |  |  | 893 | -43 | 3 | 26 | 904 | -39 |  |  |
| 891 | -35 |  |  | 894 | -41 |  |  | 893 | -43 | 3 | 21 | 906 | -38 |  |  |
| 891 | -29 |  |  | 895 | -40 |  |  | 894 | -41 | 2 | 18 | 906 | -38 |  |  |
| 891 | -31 |  |  | 895 | -43 |  |  | 895 | -38 | 1 | 22 | 906 | -38 |  |  |
| 891 | -32 |  |  | 895 | -43 |  |  | 897 | -36 |  |  | 906 |  |  |  |

## MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-35.7$ Std dev $=7.3$ MAX $=-14.8$ at 1540 GMT ON dAY 1 MIN $=-57.8$ at 600 GMt ON dAY 6
* THETA (K) * MEAN $=245.59$
* PRESSURE (MB) * MEAN $=889.2$ STD DEV $=10.8$ MAX $=906.5$ at 1510 GMT OW DAY 28 MIN $=847.1$ at 1520 GMT ON DAY 8
* WINDS (M/S) * MEAN $=5.7$ STD DEV $=5.4$ RESULTANT $=4.4$ FROM 26. CONSTANCY $=0.77$ MAX $=22.4$ FROM 66. AT 1350 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $65.7 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW USW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 10 & 36 & 32 & 11 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 4 & 3\end{array}$


* temperature ( $C$ ) * mean $=-26.2$ Std dev $=7.6$ max $=-7.8$ at 840 GMT ON day 24 min $=-43.4$ at 1350 GMt on day 13
* theta (K) * MEAN $=254.95$
* PRESSURE (MB) * MEAN $=894.6$ STD DEV $=7.5$ MAX $=909.6$ AT 1800 GMT ON DAY 12 MIN $=862.9$ AT 1300 GMT ON DAY 10
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $81.7 \%$

 $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

OCT 97


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-19.3$ STD DEV $=4.3$ MAX $=-9.5$ AT 2340 GMT ON DAY 11 MIN $=-33.1$ AT 610 GMT ON DAY 17
* THETA (K) * MEAN $=261.94$
* PRESSURE (MB) * MEAN $=896.5$ STD DEV $=7.0$ MAX $=911.4$ AT 1040 GMT ON DAY 7 MIN $=884.0$ AT 930 GMT ON DAY 31
* WINDS (M/S) * MEAN $=5.2$ STD DEV $=3.7$ RESULTANT $=0.6$ FROM 1. CONSTANCY $=0.12$ MAX $=21.3$ FROM 296 . AT 320 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $68.5 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllllll}\text { PERCENT } & 10 & 4 & 9 & 3 & 3 & 7 & 10 & 4 & 10 & 6 & 4 & 7 & 1 & 3 & 10 & 9\end{array}$

NOV 9


* TEMPERATURE ( $C$ ) * MEAN $=-12.7$ StD dEV $=4.0$ mAX $=-5.2$ at 520 GMT ON DAY 16 MIN $=-25.1$ AT 130 GMT ON DAY 1
* THETA (K) * MEAN $=267.84$
* PRESSURE (MB) * MEAN $=906.8$ STD DEV $=12.5$ MAX $=931.2$ at 640 GMT ON DAY 23 MIN $=879.7$ AT 1750 GMT ON DAY 2
* WINDS (M/S) * MEAN $=6.3$ STD DEV $=3.6$ RESULTANT $=3.3$ FROM 81. CONSTANCY $=0.53$ MAX $=18.3$ FROM 81. AT 250 GMT DAY 19
* MISSING 3-hourly observations * temperature: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

DEC 97

| HR | PP | It | VV | DD | PP |  | vV | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | day | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 917 | -13 | 0 | 0 | 914 | -15 | 6 | 47 | 917 | -8 | 2 | 61 | 921 | -10 | 0 | 0 | 927 | -13 | 4 | 205 | 919 | -15 | 7 | 164 | 922 | -14 | 7 | 125 |
| 03 | 917 | -12 | 0 | 0 | 913 | -14 | 8 | 354 | 916 | -12 | 6 | 157 | 922 | -11 | 2 | 68 | 925 | -14 | 5 | 180 | 918 | -15 | 5 | 160 | 922 | -14 | 8 | 156 |
| 06 | 916 | -12 | 0 | 0 | 913 | -14 | 8 | 338 | 915 | -14 | 7 | 180 | 924 | -13 | 2 | 74 | 925 | -14 | 5 | 182 | 918 | -15 | 6 | 153 | 922 | -14 | 6 | 135 |
| 09 | 916 | -15 | 3 | 133 | 913 | -15 | 9 | 331 | 914 | -14 | 7 | 180 | 925 | -14 | 4 | 87 | 923 | -16 | 7 | 180 | 919 | -15 | 6 | 142 | 923 | -16 | 8 | 144 |
| 12 | 915 | -16 | 4 | 112 | 914 | -14 | 8 | 329 | 914 | -14 | 6 | 188 | 926 | -14 | 3 | 68 | 922 | -16 | 6 | 147 | 919 | -15 | 5 | 150 | 923 | -16 | 6 | 146 |
| 15 | 915 | -15 | 3 | 95 | 915 | -14 | 10 | 310 | 915 | -15 | 5 | 180 | 926 | -10 | 0 | 0 | 921 | -16 | 5 | 180 | 920 | -15 | 5 | 133 | 923 | -17 | 6 | 143 |
| 18 | 914 | -15 | 4 | 85 | 916 | -13 | 7 | 180 | 916 | -12 | 2 | 184 | 927 | -11 | 1 | 142 | 920 | -15 | 6 | 158 | 921 | -14 | 4 | 142 | 923 | -15 | 5 | 135 |
| 21 | 914 | -14 | 5 | 43 | 917 | -12 | 5 | 340 | 918 | -9 | 2 | 180 | 927 | -15 | 2 | 180 | 919 | -15 | 8 | 163 | 921 | -14 | 7 | 144 | 923 | -14 | 4 | 126 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 923 | -13 | 3 | 109 | 917 | -13 | 5 | 139 | 910 | -14 | 6 | 147 | 910 | -7 | 2 | 172 | 908 | -7 | 3 | 36 | 905 | -1 | 0 | 0 | 905 | 0 | 1 | 243 |
| 03 | 922 | -14 | 4 | 127 | 916 | -14 | 5 | 116 | 909 | -14 | 7 | 153 | 910 | -10 | 3 | 157 | 907 | -5 | 2 | 54 | 904 | -3 | 2 | 312 | 906 | -1 | 0 | 0 |
| 06 | 922 | -16 | 4 | 120 | 915 | -16 | 6 | 146 | 909 | -13 | 7 | 146 | 910 | -11 | 3 | 157 | 907 | -6 | 3 | 57 | 903 | -6 | 3 | 324 | 907 | -4 | 1 | 104 |
| 09 | 921 | -18 | 5 | 122 | 914 | -17 | 6 | 111 | 909 | -13 | 7 | 139 | 909 | -10 | 3 | 175 | 906 | -10 | 3 | 68 | 903 | -7 | 3 | 277 | 908 | -8 | 1 | 42 |
| 12 | 920 | -16 | 6 | 109 | 913 | -17 | 6 | 102 | 909 | -13 | 5 | 180 | 909 | -14 | 3 | 18 | 906 | -10 | 3 | 46 | 903 | -7 | 3 | 270 | 909 | -10 | 1 | 56 |
| 15 | 919 | -14 | 5 | 111 | 912 | -15 | 8 | 126 | 909 | -11 | 5 | 142 | 908 | -12 | 3 | 60 | 906 | -8 | 3 | 32 | 903 | -7 | 3 | 262 | 910 | -10 | 2 | 75 |
| 18 | 919 | -13 | 5 | 120 | 911 | -14 | 7 | 122 | 909 | -9 | 3 | 153 | 908 | -10 | 3 | 33 | 905 | -5 | 2 | 4 | 903 | -6 | 2 | 284 | 910 | -8 | 2 | 53 |
| 21 | 918 | -11 | 5 | 116 | 911 | -14 | 7 | 130 | 910 | -7 | 2 | 165 | 908 | -8 | 4 | 59 | 905 | -2 | 2 | 295 | 904 | -3 | 1 | 271 | 911 | -5 | 2 | 111 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 911 | -4 | 1 | 132 | 914 | -7 | 1 | 156 | 911 | -10 | 2 | 112 | 910 | -10 | 5 | 50 | 903 | -9 | 5 | 122 | 911 | -9 | 2 | 71 | 914 | -7 | 7 | 106 |
| 03 | 912 | -3 | 2 | 180 | 914 | -8 | 2 | 354 | 910 | -9 | 0 | 0 | 909 | -10 | 5 | 15 | 903 | -9 | 4 | 139 | 911 | -10 | 2 | 71 | 912 | -7 | 8 | 75 |
| 06 | 912 | -6 | 2 | 206 | 914 | -10 | 3 | 8 | 910 | -12 | 1 | 95 | 909 | -9 | 6 | 64 | 903 | -10 | 3 | 175 | 913 | -11 | 4 | 92 | 911 | -7 | 8 | 57 |
| 09 | 912 | -10 | 2 | 206 | 913 | -10 | 1 | 14 | 910 | -13 | 3 | 80 | 908 | -12 | 5 | 37 | 904 | -12 | 2 | 171 | 914 | -11 | 4 | 52 | 910 | -6 | 5 | 74 |
| 12 | 913 | -9 | 3 | 225 | 913 | -11 | 1 | 53 | 910 | -12 | 5 | 78 | 907 | -16 | 3 | 101 | 906 | -12 | 2 | 223 | 915 | -14 | 2 | 60 | 910 | -6 | 4 | 357 |
| 15 | 913 | -8 | 3 | 241 | 913 | -12 | 3 | 94 | 909 | -12 | 5 | 91 | 906 | -11 | 4 | 85 | 906 | -12 | 3 | 227 | 915 | -14 | 3 | 52 | 910 | -6 | 6 | 29 |
| 18 | 913 | -5 | 1 | 327 | 912 | -10 | 3 | 119 | 909 | -12 | 4 | 71 | 905 | -8 | 4 | 90 | 908 | -8 | 2 | 192 | 915 | -10 | 4 | 88 | 910 | -5 | 8 | 330 |
| 21 | 913 | -7 | 2 | 210 | 912 | -10 | 4 | 108 | 910 | -11 | 4 | 67 | 904 | -7 | 4 | 108 | 909 | -7 | 2 | 112 | 915 | -10 | 5 | 98 | 911 | -4 | 8 | 279 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | day | 27 |  |  |  | 28 |  |
| 00 | 912 | -5 | 6 | 305 | 915 | -5 | 15 | 2 | 915 | -7 | 12 | 317 | 917 | -9 | 8 | 80 | 909 | -4 | 12 | 350 | 909 | -5 | 5 | 329 | 916 | -2 | 4 | 185 |
| 03 | 913 | -5 | 7 | 351 | 915 | -5 | 16 | 291 | 917 | -9 | 9 | 330 | 916 | -8 | 7 | 68 | 908 | -4 | 12 | 351 | 910 | -5 | 4 | 11 | 916 | -2 | 3 | 185 |
| 06 | 914 | -6 | 7 | 30 | 915 | -6 | 14 | 2 | 918 | -8 | 8 | 345 | 914 | -6 | 6 | 57 | 908 | -5 | 8 | 360 | 911 | -4 | 5 | 18 | 916 | -3 | 3 | 226 |
| 09 | 914 | -8 | 4 | 23 | 914 | -5 | 14 | 1 | 919 | -10 | 6 | 5 | 914 | -6 | 6 | 56 | 907 | -4 | 10 | 7 | 913 | -5 | 5 | 18 | 916 | -3 | 2 | 229 |
| 12 | 914 | -5 | 6 | 1 | 912 | -6 | 13 | 347 | 919 | -11 | 6 | 42 | 913 | -6 | 7 | 30 | 907 | -4 | 8 | 2 | 914 | -4 | 3 | 15 | 916 | -6 | 5 | 264 |
| 15 | 914 | -4 | 8 | 2 | 912 | -6 | 11 | 345 | 919 | -11 | 8 | 63 | 911 | -5 |  | 347 | 906 | -5 | 8 | 309 | 914 | -2 | 0 | 0 | 916 | -5 | 3 | 316 |
| 18 | 914 | -4 | 10 | 319 | 912 | -6 | 12 | 310 | 918 | -10 | 9 | 53 | 911 | -4 | 9 | 18 | 907 | -7 | 10 | 4 | 915 | -1 | 2 | 188 | 916 | -5 | 6 | 352 |
| 21 | 915 | -5 |  | 351 | 914 | -8 | 14 | 323 | 917 | -10 | 8 | 66 | 910 | -4 | 11 | 14 | 908 | -5 | 8 | 4 | 916 | -1 | 3 | 192 | 916 | -5 | 8 | 343 |
|  |  |  | 29 |  |  |  | 30 |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 916 | -6 | 8 | 336 | 918 | -5 | 7 | 9 | 916 | -6 | 5 | 37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 916 | -6 |  | 330 | 918 | -6 | 7 | 355 | 916 | -6 | 4 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 916 | -7 |  | 334 | 918 | -7 | 6 | 19 | 915 | -7 | 4 | 57 |  |  |  | . |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 917 | -8 |  | 338 | 918 | -8 | 5 | 40 | 915 | -8 | 4 | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 917 | -8 |  | 338 | 918 | -8 | 6 | 35 | 914 | -7 | 4 | 52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 917 | -7 | 6 | 1 | 917 | -7 | 6 | 28 | 913 | -8 | 3 | 66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 918 | -7 | 6 | 18 | 917 | -7 | 7 | 29 | 912 |  | 3 | 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## MONTHLY SUMMARY

[^0]

* TEMPERATURE (C) * MEAN $=-5.9$ STD DEV $=3.4$ MAX $=5.0$ AT 220 GMT ON DAY 1 MIN $=-17.2$ AT 1420 GMT ON DAY 31
* THETA (K) * MEAN $=267.71$
* PRESSURE (MB) * MEAN $=994.4$ STD DEV $=4.3$ MAX $=1003.8$ AT 1150 GMT ON DAY 31 MIN $=985.4$ AT 350 GMT ON DAY 4
* WINDS (M/S) * MEAN $=2.7$ STD DEV $=1.5$ RESULTANT $=2.0$ FROM 69. CONSTANCY $=0.73$ MAX $=15.6$ FROM 210. AT 2350 GMT DAY 14 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: $\quad 38 \quad 40 \quad 21 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 10 & 13 & 22 & 16 & 19 & 10 & 3 & 2 & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 1\end{array}$

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP |  |  | DD | PP | TT | VV | DD | P |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 1003 | -7 | 3 | 106 | 1004 | -7 | 1 | 39 | 1006 | -7 | 0 | 0 | 1001 | -8 | 2 | 36 | 996 | -5 | 2 | 43 | 998 | -10 | 4 | 7 | 996 | -10 | 5 | 3 |
| 03 | 1003 | -9 | 3 | 30 | 1004 | -9 | 3 | 101 |  |  |  |  | 1000 | -8 | 2 | 115 | 995 | -4 | 2 | 2 | 997 | -10 | 3 | 101 | 996 | -10 | 2 | 70 |
| 06 | 1003 | -8 | 2 | 5 | 1004 | -6 | 2 | 337 | 1004 | -8 | 3 | 98 | 999 | -9 | 3 | 37 | 996 | -8 | 2 | 71 | 996 | -10 | 2 | 70 | 995 | -11 | 5 | 68 |
| 09 | 1003 | -11 | 3 | 57 | 1005 | -10 | 0 | 0 | 1004 | -9 | 3 | 98 | 998 | -11 | 2 | 19 | 996 | -9 | 2 | 75 | 996 | -10 | 2 | 91 | 994 | -11 | 3 | 104 |
| 12 | 1004 | -16 | 3 | 9 |  |  |  |  | 1003 | -9 | 1 | 99 | 998 | -17 | 3 | 52 | 997 | -9 | 2 | 53 | 996 | -12 | 2 | 78 | 993 | -12 | 3 | 30 |
| 15 | 1003 | $-13$ | 2 | 15 | 1005 | -10 | 2 | 42 | 1003 | -11 | 1 | 82 | 997 | -18 | 4 | 15 | 997 | -12 | 3 | 105 | 996 | -12 | 1 | 360 | 992 | -14 | 3 | 61 |
| 18 | 1003 | -15 | 3 | 32 | 1005 | -9 | 1 | 22 | 1002 | -11 | 2 | 345 | 996 | -11 | 3 | 30 | 998 | -13 | 3 | 360 | 996 | -15 | 3 | 49 | 991 | -13 | 1 | 94 |
| 21 | 1004 | -11 | 3 | 1 | 1006 | -9 | 3 | 49 | 1002 | -10 | 2 | 9 | 996 | -4 | 4 | 2 | 998 | -10 | 2 | 73 | 997 | -12 | 2 | 45 | 991 | -11 | 1 | 106 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 991 | -13 | 6 | 113 | 995 | -10 | 1 | 101 | 994 | -10 | 3 | 358 | 999 | -16 | 8 | 78 | 1001 | -16 | 6 | 63 | 993 | -11 |  | 56 | 988 | -18 | 4 | 74 |
| 03 | 992 | -11 | 5 | 109 | 995 | -8 | 2 | 35 | 995 | -10 | 4 | 42 | 1000 | -17 | 7 | 84 | 1000 | -15 | 6 | 43 | 991 | -10 | 0 | 0 | 987 | -13 | 3 | 32 |
| 06 | 992 | -10 | 6 | 88 | 994 | -9 | 1 | 39 | 995 | -10 | 5 | 88 | 1000 | -17 | 6 | 80 | 999 | -11 | 1 | 119 | 990 | -11 | 2 | 14 | 987 | -14 | 4 | 47 |
| 09 | 993 | -11 | 7 | 75 | 994 | -14 | 2 | 53 | 996 | -11 | 4 | 99 | 1001 | -18 | 7 | 67 | 999 | -12 | 1 | 39 | 989 | -13 |  | 74 | 988 | -16 | 2 | 85 |
| 12 | 994 | -13 | 4 | 66 | 993 | -17 | 2 | 50 | 997 | -12 | 6 | 99 | 1001 | -18 | 6 | 74 | 998 | -14 | 2 | 61 | 989 | -17 | 2 | 2 | 989 | -17 | 2 | 130 |
| 15 | 994 | -13 | 4 | 66 | 992 | -1 | 3 | 360 | 997 | -13 | 5 | 59 | 1001 | -18 | 7 | 88 | 996 | -14 | 2 | 90 | 989 | -19 | 4 | 40 | 991 | -21 | 4 | 49 |
| 18 | 995 | -12 | 4 | 67 | 992 | -1 | 2 | 28 | 998 | -13 | 5 | 63 | 1001 | -18 | 6 | 78 | 995 | -15 | 3 | 82 | 989 | -23 | 2 | 35 | 992 | -21 | 3 | 37 |
| 21 | 995 | -1 | 3 | 54 | 993 | -1 | 4 | 105 | 998 | -13 | 7 | 80 | 1001 | -17 | 5 | 61 | 994 | -14 | 2 | 360 | 988 | -20 | 3 | 46 | 992 | -19 | 3 | 46 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 993 | -1 | 3 | 25 | 9 | -1 | 1 | 8 | 9 | -20 | 2 | 2 | 1002 | - | 6 | 7 | 998 | -19 | 7 | 68 | 5 | -17 | 14 | 165 | 991 | -15 | 10 | 133 |
| 03 | 993 | -1 | 1 | 7 | 996 | -1 | 2 | 33 | 997 | -15 | 5 | 53 | 1002 | -1 | 8 | 82 | 997 | -17 | 3 | 78 | 995 | -14 | 3 | 130 | 991 | -13 | 10 | 161 |
| 06 | 993 | -17 | 5 | 63 | 996 | -1 | 3 | 47 | 997 | -18 | 5 | 75 | 1002 | -19 | 6 | 59 | 997 | -18 | 8 | 56 | 994 | -14 | 2 | 150 | 991 | -13 | 4 | 137 |
| 09 | 994 | -19 | 3 | 15 | 996 | -14 | 3 | 57 | 998 | -21 | 3 | 22 | 1001 | -20 | 5 | 98 | 997 | -17 | 6 | 61 | 995 | -14 | 6 | 164 | 990 | -16 | 3 | 74 |
| 12 | 994 | -14 | 2 | 53 | 997 | -19 | 5 | 125 | 998 | -23 | 3 | 61 | 1001 | -22 | 5 | 67 | 997 | -18 | 8 | 61 | 994 | -15 | 12 | 170 | 990 | -17 | 5 | 50 |
| 15 | 995 | -16 | 3 | 16 | 997 | -19 | 3 | 88 | 999 | -23 | 1 | 158 | 1000 | -22 | 5 | 97 | 996 | -16 | 4 | 46 | 993 | -16 | 12 | 146 | 990 | -16 | 6 | 66 |
| 18 | 995 | -16 | 1 | 73 | 997 | -23 | 2 | 35 | 1001 | -18 | 3 | 139 | 999 | -22 | 4 | 75 | 995 | -16 | 5 | 143 | 992 | -16 | 13 | 143 | 989 | -17 | 5 | 90 |
| 21 | 996 | -18 | 2 | 25 | 997 | -25 | 2 | 90 | 1001 | -14 | 6 | 43 | 998 | -21 | 6 | 66 | 995 | -16 | 12 | 135 | 990 | -16 | 14 | 171 | 989 | -16 | 5 | 66 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 989 | -17 | 10 | 67 | 992 | -18 | 5 | 119 | 992 | -18 | 6 | 87 | 996 | -17 | 6 | 67 | 1003 | -20 | 5 | 57 | 1001 | -15 | 8 | 52 | 990 | -19 | 8 | 57 |
| 03 | 989 | -17 | 5 | 87 | 992 | -18 | 5 | 90 | 992 | -17 | 7 | 125 | 997 | $-17$ | 6 | 49 | 1003 | -18 | 5 | 90 | 1000 | -13 | 0 | 0 | 988 | -18 | 8 | 71 |
| 06 | 989 | -15 | 6 | 57 | 992 | -18 | 5 | 97 | 993 | -17 | 8 | 106 | 998 | -17 | 4 | 46 | 1004 | $-17$ | 8 | 66 | 999 | -15 | 4 | 178 | 986 | -19 | 8 | 87 |
| 09 | 990 | -17 | 5 | 71 | 992 | -19 | 4 | 82 | 993 | -19 | 6 | 45 | 999 | $-17$ | 3 | 54 | 1005 | -17 | 4 | 77 | 998 | -16 | 4 | 161 | 985 | -19 | 7 | 70 |
| 12 | 990 | -18 | 4 | 84 | 991 | -20 | 1 | 81 | 994 | -19 | 5 | 60 | 999 | -18 | 2 | 70 | 1005 | -17 | 7 | 164 | 997 | -17 | 6 | 60 | 984 | -20 | 8 | 90 |
| 15 | 990 | -22 | 3 | 64 | 991 | -20 | 3 | 22 | 994 | -18 | 6 | 59 | 999 | -20 | 4 | 113 | 1005 | -17 | 3 | 144 | 995 | -19 | 8 | 59 | 983 | -21 | 7 | 71 |
| 18 | 991 | -20 | 2 | 37 | 990 | -19 | 2 | 49 | 994 | -18 | 5 | 61 | 1001 | -23 | 3 | 94 | 1004 | -17 | 3 | 106 | 994 | -18 | 8 | 61 | 983 | -22 | 6 | 64 |
| 21 | 992 | -17 | 4 | 54 | 991 | -19 | 4 | 52 | 995 | -17 | 5 | 81 | 1002 | -21 | 4 | 98 | 1002 | -16 | 14 | 143 | 992 | -19 | 7 | 78 | 982 | -22 | 7 |  |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-15.0$ STD DEV $=4.2$ MAX $=-2.2$ AT 2200 GMT ON DAY 4 MIN $=-25.4$ AT 2040 GMT ON DAY 16
* THETA (K) * MEAN $=258.51$
* PRESSURE (MB) * MEAN $=995.8$ STD DEV $=5.0$ MAX $=1005.7$ AT 2250 GMT ON DAY 2 MIN $=982.3$ AT 1810 GMT ON DAY 28
* WINDS (M/S) * MEAN $=4.2 \mathrm{STD}$ DEV $=2.6$ RESULTANT $=3.2$ FROM 77. CONSTANCY $=0.77$ MAX $=17.5$ FROM 177 . AT 2110 GMT DAY 20 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \% \quad$ WINDS: $0.9 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT $\begin{array}{llllllllllllllll}6 & 9 & 21 & 28 & 18 & 6 & 6 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1\end{array}$

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP |  | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 983 | -21 | 9 | 40 | 989 | -20 | 3 | 53 | 996 | -25 | 2 | 132 | 989 | -23 | 3 | 47 | 984 | -17 | 3 | 59 | 985 | -18 | 1 | 84 | 984 | -18 | 1 | 16 |
| 03 | 983 | -21 | 6 | 52 | 990 | -25 | 6 | 98 | 995 | -20 | 1 | 56 | 988 | -22 | 1 | 42 | 983 | -17 | 4 | 66 | 984 | -19 | 5 | 57 | 983 | -14 | 7 | 305 |
| 06 | 983 | -22 | 6 | 60 | 991 | -25 | 5 | 97 | 993 | -19 | 3 | 47 | 988 | -22 | 3 | 14 | 983 | -18 | 4 | 59 | 985 | -20 | 5 | 66 | 983 | $-13$ | 2 | 329 |
| 09 | 984 | -22 | 6 | 54 | 994 | -28 | 0 | 0 | 992 | -21 | 2 | 71 | 986 | -21 | 2 | 358 | 984 | -18 | 4 | 59 | 985 | -26 | 5 | 73 | 982 | -17 | 2 | 115 |
| 12 | 985 | -23 | 6 | 52 | 995 | -26 | 1 | 40 | 991 | -25 | 2 | 46 | 985 | -25 | 2 | 84 | 984 | -19 | 1 | 111 | 985 | -29 | 4 | 115 | 982 | -17 | 0 | 0 |
| 15 | 986 | -24 | 3 | 75 | 996 | -26 | 2 | 16 | 991 | -29 | 2 | 68 | 984 | -23 | 4 | 28 | 984 | -19 | 4 | 42 | 985 | -30 | 3 | 94 | 982 | -19 | 1 | 340 |
| 18 | 987 | -24 | 3 | 91 | 997 | -27 | 3 | 21 | 990 | -30 | 3 | 26 | 984 | -20 | 4 | 39 | 984 | -21 | 5 | 91 | 985 | -29 | 2 | 82 | 982 | -25 | 3 | 85 |
| 21 | 988 | -22 | 3 | 63 | 997 | -27 | 3 | 97 | 990 | -24 | 1 | 25 | 984 | -18 | 4 | 59 | 984 | -20 | 3 | 92 | 985 | -23 | 1 | 52 | 983 | -24 | 4 | 30 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 984 | -24 | 3 | 45 | 989 | -23 | 2 | 111 | 991 | -20 | 7 | 88 | 982 | -24 | 6 | 74 | 976 | -25 | 4 | 47 | 968 | -20 | 3 | 358 | 976 | -25 | 2 | 36 |
| 03 | 984 | -23 | 4 | 36 | 989 | -21 | 3 | 104 | 988 | -20 | 8 | 78 | 980 | -22 | 6 | 63 | 975 | -25 | 2 | 360 | 968 | -22 | 3 | 26 | 977 | -26 | 2 | 32 |
| 06 | 984 | -22 | 4 | 67 | 989 | -23 | 2 | 90 | 987 | -19 | 7 | 81 | 979 | -22 | 9 | 60 | 973 | -26 | 1 | 57 | 968 | -22 | 3 | 33 | 978 | -25 | 2 | 9 |
| 09 | 985 | -27 | 3 | 70 | 990 | -22 | 6 | 125 | 987 | -21 | 6 | 64 | 978 | -24 | 8 | 50 | 972 | -28 | 2 | 112 | 969 | -29 | 4 | 35 | 979 | -27 | 2 | 23 |
| 12 | 985 | -25 | 3 | 42 | 990 | -21 | 7 | 129 | 986 | -23 | 6 | 88 | 978 | -28 | 6 | 43 | 971 | -27 | 0 | 0 | 970 | -28 | 4 | 43 | 981 | -30 | 3 | 49 |
| 15 | 986 | -24 | 3 | 68 | 991 | -22 | 12 | 118 | 985 | -25 | 6 | 81 | 977 | -30 | 4 | 56 | 969 | -25 | 1 | 15 | 971 | -33 | 4 | 98 | 983 | -29 | 1 | 14 |
| 18 | 987 | -26 | 4 | 53 | 990 | -21 | 12 | 140 | 985 | -27 | 8 | 54 | 977 | -25 | 6 | 68 | 968 | -24 | 1 | 355 | 973 | -32 | 2 | 36 | 987 | -25 | 5 | 59 |
| 21 | 988 | -26 | 2 | 71 | 991 | -21 | 7 | 70 | 983 | -26 | 7 | 75 | 977 | -26 | 4 | 73 | 968 | -23 | 2 | 25 | 975 | -28 | 3 | 19 | 988 | -22 | 5 | 50 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 989 | -20 | 5 | 54 | 990 | -26 | 2 | 78 | 986 | -27 | 1 | 8 | 991 | -23 | 5 | 47 | 995 | -26 | 6 | 49 | 994 | -30 | 5 | 28 | 989 | -29 | 2 | 26 |
| 03 | 990 | -19 | 5 | 63 | 989 | -28 | 2 | 39 | 987 | -26 | 4 | 4 | 992 | -24 | 6 | 85 | 994 | -26 | 5 | 60 | 994 | -28 | 4 | 14 | 989 | -31 | 2 | 46 |
| 06 | 991 | -21 | 3 | 60 | 987 | -27 | 3 | 23 | 987 | -25 | 3 | 23 | 994 | -24 | 6 | 42 | 994 | -27 | 5 | 77 | 993 | -29 | 5 | 73 | 988 | -33 | 2 | 19 |
| 09 | 992 | -25 | 1 | 156 | 986 | -25 | 3 | 53 | 986 | -25 | 2 | 28 | 995 | -25 | 6 | 46 | 995 | -27 | 5 | 101 | 992 | -30 | 2 | 360 | 988 | -30 | 1 | 39 |
| 12 | 992 | -30 | 1 | 28 | 985 | -29 | 2 | 56 | 986 | -25 | 2 | 22 | 995 | -25 | 6 | 73 | 995 | -27 | 2 | 60 | 990 | -32 | 2 | 108 | 987 | -32 | 0 |  |
| 15 | 992 | -25 | 3 | 90 | 984 | -33 | 2 | 91 | 986 | -25 | 2 | 8 | 995 | -26 | 5 | 73 | 994 | -29 | 2 | 60 | 989 | -34 | 2 | 91 | 987 | -32 | 1 | 135 |
| 18 | 992 | -32 | 2 | 8 | 985 | -33 | 2 | 43 | 988 | -24 | 3 | 64 | 994 | -27 | 6 | 53 | 994 | -33 | 3 | 26 | 989 | -31 | 4 | 95 | 988 | -31 | 1 | 191 |
| 21 | 991 | -23 | 2 | 40 | 986 | -30 | 1 | 7 | 989 | -24 | 4 | 71 | 994 | -26 | 4 | 49 | 994 | -31 | 3 | 16 | 990 | -33 | 3 | 1 | 989 | -28 | 1 | 49 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 990 | -27 | 2 | 174 | 995 | -26 | 1 | 30 | 998 | -21 | 1 | 18 | 1003 | -32 | 0 | 0 | 1004 | -26 | 4 | 43 | 993 | -22 | 2 | 66 | 985 | -31 | 3 | 11 |
| 03 | 991 | -29 | 2 | 28 | 996 | -28 | 2 | 92 | 998 | -19 | 1 | 106 | 1005 | -31 | 0 | 0 | 1003 | -25 | 1 | 123 | 992 | -23 | 2 | 75 | 983 | -30 | 4 | 14 |
| 06 | 992 | -29 | 2 | 67 | 997 | -27 | 3 | 23 | 999 | -23 | 3 | 57 | 1006 | -35 | 0 | 0 | 1002 | -25 | 3 | 347 | 991 | -25 | 1 | 80 | 981 | -29 | 4 | 45 |
| 09 | 993 | -30 | 2 | 50 | 997 | -24 | 2 | 4 | 999 | -27 | 2 | 15 | 1006 | -34 | 0 | 0 | 1001 | -24 | 2 | 14 | 990 | -25 | 5 | 118 | 978 | -30 | 3 | 9 |
| 12 | 993 | -28 | 1 | 360 | 997 | -26 | 2 | 82 | 999 | -27 | 1 | 32 | 1006 | -32 | 0 | 0 | 1000 | -26 | 4 | 36 | 989 | -26 | 4 | 64 | 976 | -31 | 1 | 115 |
| 15 | 994 | -25 | 3 | 202 | 998 | -27 | 2 | 50 | 999 | -26 | 0 | 0 | 1005 | -31 | 0 | 0 | 999 | -30 | 3 |  | 988 | -26 | 5 | 46 | 974 | -28 | 3 | 89 |
| 18 | 994 | -26 | 1 | 192 | 998 | -24 | 3 | 21 | 1000 | -30 | 0 | 0 | 1005 | -28 | 5 | 29 | 997 | -26 | 2 | 16 | 987 | -26 | 2 | 358 | 971 | -29 | 1 | 123 |
| 21 | 995 | -27 | 2 | 15 | 998 | -23 | 1 | 64 | 1002 | -33 | 0 | 0 | 1005 | -26 | 6 | 47 | 995 | -23 | 1 | 357 | 986 | -31 | 5 | 46 | 968 | -28 | 3 | 37 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 966 | -30 | 3 | 29 | 968 | -21 | 12 | 146 | 974 | -21 | 2 | 358 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 964 | -28 | 2 | 1 | 972 | -21 | 9 | 142 | 974 | -17 | 3 | 277 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 963 | -25 | 1 | 60 | 972 | -21 | 4 | 133 | 974 | -19 | 4 | 240 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 963 | -25 | 1 | 2 | 972 | -19 | 7 | 315 | 978 | -16 | 5 | 255 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 963 | -24 | 3 | 292 | 972 | -19 | 8 | 306 | 983 | -23 | 5 | 101 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 961 | -23 | 6 | 302 | 973 | -17 | 3 | 132 | 983 | -22 | 4 | 143 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 959 | -19 | 9 | 5 | 975 | -18 | 2 | 118 | 983 | -24 | 6 | 53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 963 | -19 | 1 | 234 | 975 | -21 | 4 | 14 | 981 | -28 | 5 | 54 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-25.0$ STD DEV $=4.2$ MAX $=-12.9$ AT 350 GMT ON DAY 7 MIN $=-35.9$ AT 1900 GMT ON DAY 19
* THETA (K) * MEAN $=249.18$
* PRESSURE (MB) * MEAN $=986.3$ STD DEV $=9.5$ MAX $=1006.2$ AT 1020 GMT ON DAY 25 MIN $=958.8$ AT 1800 GMT ON DAY 29
* WINDS (M/S) * MEAN $=3.3$ STD DEV $=2.2$ RESULTANT $=2.4$ FROM 58. CONSTANCY $=0.73$ MAX $=16.2$ FROM 137 . AT 40 GMT DAY 30 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 1+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 9 & 17 & 24 & 20 & 11 & 6 & 4 & 0 & 1 & 1 & 0 & 1 & 0 & 1 & 1 & 1\end{array}$

APR 97
HR PP TT VV DD $\begin{array}{llllr} & & \text { DAY } & 1 & \\ 00 & 980 & -29 & 5 & 57 \\ 03 & 978 & -25 & 6 & 67 \\ 06 & 976 & -26 & 4 & 49 \\ 09 & 975 & -33 & 5 & 115 \\ 12 & 976 & -37 & 2 & 4 \\ 15 & 978 & -36 & 2 & 358 \\ 18 & 979 & -31 & 1 & 11 \\ 21 & 980 & -25 & 2 & 180\end{array}$ DAY 8
$\begin{array}{llll}00 & 981 & -16 & 5 \\ 113\end{array}$
$\begin{array}{lllll}03 & 982 & -16 & 5 & 164\end{array}$
$\begin{array}{llll}06 & 983-17 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 985 & -16 & 2 & 94\end{array}$
$\begin{array}{lllll}12 & 987 & -16 & 7 & 188\end{array}$
$\begin{array}{lllll}15 & 989 & -17 & 5 & 135\end{array}$
$\begin{array}{llllll}18 & 991 & -18 & 13 & 157\end{array}$

| 21 | 994 | -21 | 4 |
| :--- | :--- | :--- | :--- | DAY 15

$\begin{array}{llll}00 & 987 & -26 & 4 \\ 85\end{array}$
$\begin{array}{lllll}03 & 990 & -29 & 3 & 50\end{array}$
06 991-23 264
$\begin{array}{lllll}09 & 993 & -22 & 4 & 133\end{array}$
$\begin{array}{lllll}12 & 994 & -22 & 3 & 78\end{array}$
$\begin{array}{lllll}15 & 995 & -21 & 1 & 30\end{array}$
$\begin{array}{lllll}18 & 996 & -23 & 0 & 0\end{array}$
21 997-22 3254 DAY 22
00 1005-37 0 0 $\begin{array}{lllll}03 & 1005 & -36 & 0 & 0\end{array}$ $\begin{array}{lllll}06 & 1005 & -34 & 0 & 0\end{array}$ 09 1006-37 0 $\begin{array}{lllll}12 & 1006 & -37 & 0 & 0\end{array}$ $\begin{array}{lllll}15 & 1004 & -35 & 0 & 0\end{array}$ $\begin{array}{lllll}18 & 1003 & -37 & 0 & 0\end{array}$ $\begin{array}{llll}21 & 1002 & -34 & 0\end{array}$

|  | DAY |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 0 | 29 |  |  |  |
| 00 | 987 | -33 | 0 | 0 |
| 03 | 986 | -33 | 0 | 0 |
| 06 | 986 | -32 | 0 | 0 |
| 09 | 987 | -31 | 0 | 0 |
| 12 | 988 | -30 | 0 | 0 |
| 15 | 988 | -32 | 0 | 0 |
| 18 | 989 | -40 | 0 | 0 |
| 21 | 989 | -37 | 0 | 0 |


| PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 982 | -29 | 4 | 36 | 989 | -31 | 2 | 149 |
| 983 | -30 | 4 | 37 | 990 | -26 | 1 | 91 |
| 985 | -30 | 1 | 119 | 991 | -29 | 1 | 39 |
| 986 | -28 | 1 | 112 | 992 | -28 | 1 | 132 |
| 987 | -27 | 3 | 33 | 991 | -22 | 5 | 306 |
| 987 | -26 | 2 | 352 | 992 | -23 | 4 | 222 |
| 987 | -25 | 2 | 16 | 993 | -23 | 3 | 161 |
| 988 | -25 | 2 | 336 | 994 | -23 | 5 | 180 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 996 | -23 | 3 | 60 | 992 | -27 | 5 | 29 |
| 995 | -30 | 4 | 49 | 991 | -27 | 6 | 46 |
| 995 | -29 | 5 | 26 | 991 | -27 | 5 | 71 |
| 995 | -30 | 6 | 40 | 990 | -28 | 5 | 49 |
| 995 | -33 | 4 | 35 | 989 | -30 | 6 | 33 |
| 994 | -28 | 5 | 50 | 989 | -32 | 3 | 32 |
| 993 | -26 | 6 | 54 | 988 | -34 | 2 | 57 |
| 992 | -27 | 5 | 40 | 987 | -35 | 4 | 66 |
|  | DAY 16 |  |  |  | DAY | 17 |  |
| 998 | -32 | 4 | 7 | 1003 | -30 | 2 | 64 |
| 998 | -30 | 2 | 139 | 1003 | -28 | 4 | 212 |
| 998 | -23 | 1 | 136 | 1005 | -34 | 2 | 345 |
| 997 | -21 | 3 | 293 | 1006 | -29 | 2 | 33 |
| 999 | -27 | 2 | 194 | 1006 | -35 | 1 | 39 |
| 999 | -28 | 4 | 187 | 1007 | -23 | 2 | 247 |
| 1001 | -33 | 3 | 5 | 1006 | -20 | 11 | 295 |
| 1002 | -29 | 2 | 9 | 1009 | -27 | 3 | 85 |
|  | DAY 23 |  |  |  | DAY | 24 |  |
| 1001 | -39 | 0 | 0 | 1000 | -38 | 0 | 0 |
| 1000 | -40 | 0 | 0 | 999 | -37 | 0 | 0 |
| 999 | -42 | 0 | 0 | 997 | -40 | 0 | 0 |
| 998 | -43 | 0 | 0 | 996 | -41 | 0 | 0 |
| 999 | -43 | 0 | 0 | 995 | -44 | 0 | 0 |
| 999 | -44 | 0 | 0 | 994 | -46 | 0 | 0 |
| 1000 | -41 | 0 | 0 | 993 | -49 | 0 | 0 |
| 1000 | -41 | 0 | 0 | 992 | -50 | 0 | 0 |
|  | dAY 30 |  |  |  |  |  |  |
| 988 | -39 | 0 | 0 |  |  |  |  |
| 987 | -37 | 0 | 0 |  |  |  |  |
| 986 | -30 | 0 | 0 |  |  |  |  |
| 987 | -35 | 0 | 0 |  |  |  |  |
| 988 | -39 | 0 | 0 |  |  |  |  |
| 989 | -35 | 0 | 0 |  |  |  |  |
| 990 | -36 | 0 | 0 |  |  |  |  |
|  | -43 |  | 0 |  |  |  |  |

$\begin{array}{rrrr}\text { PP } & \text { TT } & \text { VV } & \text { DD } \\ \text { DAY } & 4 & \\ 995 & -22 & 2 & 67 \\ 994 & -23 & 4 & 351 \\ 994 & -30 & 6 & 104 \\ 993 & -29 & 3 & 88 \\ 992 & -25 & 2 & 12 \\ 991 & -21 & 3 & 19 \\ 990 & -18 & 4 & 81 \\ 990 & -16 & 3 & 47 \\ \text { DAY } & 11 & \end{array}$
$\begin{array}{lll}-31 & 3 & 104\end{array}$
$\begin{array}{llll}985 & -39 & 3 & 99\end{array}$
$\begin{array}{llll}985 & -39 & 3 & 92\end{array}$
$\begin{array}{llll}985 & -37 & 3 & 39\end{array}$
$\begin{array}{llll}984 & -37 & 3 & 30\end{array}$
984-32 225
984-35 $2 \begin{array}{lll} & -384\end{array}$
983 -35 2358
DAY 18
1011-32 184
$\begin{array}{llll}1014 & -34 & 3 & 68\end{array}$
1015-29 $1 \quad 21$
1016-30 29
1017-29 2205
1018-28 1352
1018-25 0
1019-25 135
DAY 25
993-48 0 0
993-45 0
$\begin{array}{llll}995 & -42 & 0 & 0\end{array}$
998-33 0
996-35 00
993 -36 0
990-31 0
987-30 0 0

PP TT VV DD DAY 5
989-14 547 $\begin{array}{llll}986 & -14 & 4 & 52\end{array}$
$\begin{array}{llll}984 & -13 & 3 & 67\end{array}$
$\begin{array}{llll}980 & -12 & 5 & 9\end{array}$
976-16 2268
971-12 6309
970-10 0
975-23 21194 DAY 12
$\begin{array}{llll}984 & -36 & 3 & 16\end{array}$
$\begin{array}{llll}984 & -35 & 1 & 30\end{array}$
$\begin{array}{llll}984 & -34 & 1 & 360\end{array}$
$\begin{array}{llll}985 & -33 & 1 & 54\end{array}$
985-34 0 0
985-33 0 0
986-33 1158
986-32 0 DAY 19
1020-29 190
$\begin{array}{llll}1019 & -29 & 25\end{array}$
$\begin{array}{llll}1019 & -33 & 1 & 15\end{array}$
$\begin{array}{llll}1018 & -36 & 1 & 84\end{array}$
$\begin{array}{llll}1017 & -34 & 1 & 50\end{array}$
1016-30 154
1016-27 0 0
1015-28 0 0 DAY 26
986-30 0
983-36 0
981-40 0
981-41 0
982-35 00
985-44 0 0
986-32 0
986-34 0

$$
\begin{array}{lrrr}
\text { PP } & \text { TT } & \text { VV } & \text { DD } \\
\text { DAY } & 6
\end{array}
$$ 982-24 11120 $\begin{array}{llll}982 & -28 & 12 \quad 71\end{array}$ $\begin{array}{llll}982 & -26 & 8 & 70\end{array}$ $\begin{array}{llll}980 & -24 & 8 & 74\end{array}$ 980-20 1140 981-14 1291

$\begin{array}{llll}983 & -25 & 5 & 81\end{array}$
983-29 580
DAY 13
986-30 0 0
986-28 1032
987-25 10188
987-26 6156
987-25 6175
987-26 4156
$\begin{array}{llll}987 & -29 & 3 & 18\end{array}$
987-27 267
DAY 20
1015-29 0 0
1013-26 0 0
1013-26 0 0
1011-26 0 0
1011-25 0 0
1010-28 0 0
1010-26 0 0
1009-27 0 0
DAY 27
$\begin{array}{llll}986 & -33 & 1 & 77\end{array}$
985-32 $1 \quad 35$
983-32 0
983-34 0 0
983-33 0
983-35 0 0
985-32 0
986-35 $0 \quad 0$

PP TT VV DD DAY 7
$\begin{array}{llll}982 & -29 & 1 & 26\end{array}$
$\begin{array}{llll}979 & -25 & 3 & 87\end{array}$
$\begin{array}{llll}978 & -21 & 1 & 64\end{array}$
976-20 2203
976-18 3229
975-14 2310
975-15 5232
978-17 2338 DAY 14
986-28 1202
986-26 1255
985-25 1106
$\begin{array}{llll}985 & -26 & 1 & 81\end{array}$
985-26 3223
985-27 1239
$\begin{array}{llll}986 & -25 & 1 & 47\end{array}$
986-21 674 DAY 21
1009-26 0
1008-25 0
1007-25 0
1008-29 0
1007-30 0
1007-30 0
1006-30 0
1006-33 0 0
DAY 28
987-34 0
$\begin{array}{llll}988 & -34 & 0 & 0\end{array}$
$\begin{array}{llll}989 & -32 & 0 & 0\end{array}$
$\begin{array}{llll}990 & -29 & 0 & 0\end{array}$
990-28 0
990-22 0
$\begin{array}{llll}990 & -30 & 0 & 0\end{array}$

* $\operatorname{temperature~}(C) *$ mean $=-29.5$ STD dev $=7.4$ MAX $=-8.1$ AT 1910 GMT ON DAY 5 min $=-51.0$ at 2030 gMt on day 24
* theta (K) * MEAN $=244.25$
* PRESSURE (MB) * MEAN $=992.4$ STD DEV $=10.9$ MAX $=1019.6$ AT 200 GMT ON DAY 19 MIN $=970.2$ AT 1840 GMT ON DAY 5
* WINDS (M/S) * MEAN $=2.0 \mathrm{STD}$ DEV $=2.7$ RESULTANT $=0.8$ FROM 74. CONSTANCY $=0.40 \mathrm{MAX}=24.2$ FROM 215. AT 1950 GMT DAY 5
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{llllllllllllllllll} & 10 & 14 & 17 & 14 & 10 & 6 & 4 & 5 & 4 & 4 & 3 & 3 & 1 & 2 & 2 & 2\end{array}$

MAY 97

| HR | PP |  | VV | DD | PP |  | VV | DD | PP |  |  | DD |  |  |  | DD |  |  |  | DD |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY |  |  |  | day | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 990 | -35 | 0 | 0 | 983 - | -28 | 6 | 165 | 964 | -16 | 12 | 203 | 964 | -19 |  |  | 970 | -17 | 2 | 42 | 979 | -25 | 5 | 52 | 978 | -30 | 3 | 26 |
| 03 | 990 | -44 | 0 | 0 | 979 | -24 | 4 | 90 | 968 | -17 | 15 | 191 | 965 | -20 |  | 331 | 970 | -19 | 6 | 80 | 979 | -26 | 6 | 40 | 979 | -34 | 4 | 9 |
| 06 | 990 | -38 | 0 | 0 | 974 | -21 | 5 | 106 | 973 | -21 | 6 | 192 | 965 | -15 |  | 258 | 970 | -19 | 7 | 92 | 979 | -25 | 5 | 29 | 980 | -34 | 3 |  |
| 09 | 989 | -31 | 0 | 0 | 971 - | -19 | 3 | 126 | 971 | -22 | 10 | 195 | 964 | -16 | 4 | 36 | 971 | -20 | 1 | 305 | 980 | -23 | 1 | 95 | 980 | -34 | 2 | 30 |
| 12 | 988 | -25 | 0 | 0 | 970 | -18 | 8 | 160 | 970 | -21 | 9 | 45 | 965 | -16 | 2 | 112 | 973 | -21 | 3 | 53 | 980 | -25 | 3 | 30 | 982 | -37 | 2 | 82 |
| 15 | 987 | -22 | 0 | 0 | 964 | -17 | 2 | 37 | 968 | -18 | 6 | 135 | 963 | -13 | 2 | 143 | 973 | -21 | 1 | 292 | 980 | -24 | 2 | 358 | 984 | -35 | 3 | 4 |
| 18 | 986 | -27 | 0 | 0 | 963 - | -17 | 3 | 101 | 971 | -17 | 2 | 185 | 963 | -13 | 3 | 225 | 972 | -18 | 6 | 78 | 979 | -23 | 1 | 295 | 987 | 34 | 1 | 74 |
| 21 | 985 | -27 | 15 | 127 | 964 | -16 | 10 | 135 | 965 | -19 | 3 | 80 | 968 | -14 | 12 | 206 | 975 | -22 | 7 | 08 | 979 | -26 | 1 | 300 | 988 | -39 | 1 | 40 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | day | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 989 | -31 |  | 243 | 981 | -42 | 1 | 87 | 977 | -40 | 0 | 0 | 982 | -37 | 0 | 0 | 983 | -41 | 0 | 0 | 990 | -43 | 0 | 0 | 995 | -40 | 3 | 28 |
| 03 | 990 | -36 | 0 | 0 | 980 | -41 | 1 | 82 | 977 | -35 | 0 | 0 | 982 | -40 | 0 | 0 | 983 | -46 | 0 | 0 | 991 | -39 | 0 | 0 | 993 | -41 |  | 106 |
| 06 | 989 | -37 | 1 | 88 | 980 | -40 | 0 | 0 | 978 | -40 | 1 | 50 | 982 | -35 | 0 | 0 | 984 | -42 | 0 | 0 | 989 | -38 | 1 | 46 | 993 | -43 | 4 | 21 |
| 09 | 989 | -37 | 1 | 37 | 979 | -45 | 1 | 47 | 979 | -37 | 0 | 0 | 982 | -38 | 0 | 0 | 985 | -45 | 0 | 0 | 989 | -34 | 0 | 0 | 994 | -39 | 2 | 102 |
| 12 | 989 | -33 | 2 | 19 | 979 | -44 | 1 | 43 | 980 | -37 | 1 | 53 | 982 | -44 | 1 | 90 | 985 | -44 | 1 | 23 | 990 | -40 | 1 | 63 | 994 | -40 |  | 132 |
| 15 | 986 | -33 | 1 | 33 | 978 | -42 | 1 | 16 | 981 | -37 | 0 | 0 | 983 | -46 | 0 | 0 | 985 | -41 | 1 | 36 | 991 | -40 | 2 | 40 | 992 | -38 | 1 | 50 |
| 18 | 984 | -37 | 1 | 11 | 977 | -44 | 0 | 0 | 981 | -39 | 0 | 0 | 983 | -43 | 1 | 5 | 986 | -41 | 1 | 19 | 990 | -39 | 1 | 106 | 991 | -38 | 0 | 0 |
| 21 | 983 | -39 | 1 | 70 | 977 | -37 | 0 | 0 | 981 | -38 | 0 | 0 | 983 | -40 | 0 | 0 | 989 | -41 | 1 | 46 | 992 | -40 | 4 | 32 | 990 | -35 | 4 | 12 |
|  |  |  | 15 |  |  | DAY | 16 |  |  | DAY |  |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY |  |  |
| 00 | 990 | -28 | 8 | 158 | 970 | -15 | 3 | 59 | 964 | -18 | 11 | 187 | 990 | -19 | 4 | 49 | 968 | -14 | 3 | 123 | 985 | -18 | 4 | 358 | 990 | -22 | 5 | 57 |
| 03 | 991 | -36 | 11 | 101 | 964 | -13 | 24 | 199 | 969 | -17 | 9 | 194 | 987 | -16 | 4 | 344 | 969 | -13 | 0 | 0 | 985 | -14 | 0 | 0 | 991 | -22 | 2 | 352 |
| 06 | 991 | -37 | 7 | 80 |  | -13 | 22 | 194 | 975 | -18 | 14 | 194 | 980 | -15 | 6 | 282 | 970 | -14 | 2 | 54 | 985 | -13 | 6 | 302 | 990 | -21 | 2 | 26 |
| 09 | 990 | -28 | 6 | 142 | 965 | -13 | 15 | 202 | 975 | -17 | 17 | 191 | 975 | -14 | 12 | 324 | 974 | -14 | 5 | 32 | 986 | -15 | 3 | 305 | 990 | -22 | 1 | 12 |
| 12 | 985 | -27 | 16 | 178 | 963 | -11 | 22 | 210 | 980 | -17 | 15 | 195 | 975 | -13 | 6 | 317 | 975 | -16 | 3 | 244 | 985 | -19 | 5 | 118 | 991 | -22 | 6 | 46 |
| 15 | 984 | -24 | 17 | 178 |  | -10 | 13 | 216 | 979 | -16 | 19 | 164 | 969 | -13 | 8 | 317 | 979 | -12 | 4 | 146 | 987 | -21 | 6 | 37 | 991 | -24 | 5 | 102 |
| 18 | 981 | -19 | 11 | 199 |  | -11 | 15 | 180 | 987 | -16 | 9 | 170 | 969 | -14 | 4 | 267 | 980 | -13 | 11 | 189 | 991 | -19 | 7 | 60 | 987 | -26 | 5 | 70 |
| 21 | 974 | -17 | 14 | 199 |  | -12 | 12 | 209 | 990 | -18 | 10 | 180 | 968 | -12 | 0 | 0 | 980 | -14 | 6 | 157 | 992 | -21 | 6 | 49 | 986 | -26 | 3 | 47 |
|  |  | DAY | 22 |  |  |  | 23 |  |  |  |  |  |  |  | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 986 | -27 | 0 | 0 | 975 | -31 | 6 | 43 | 975 | -21 | 4 | 271 | 980 | -25 | 0 | 0 | 981 | -29 | 1 | 82 | 997 | -34 | 1 | 59 | 995 | -31 | 1 | 40 |
| 03 | 986 | -25 | 4 | 57 | 974 | -31 | 3 | 63 | 976 | -21 | 3 | 234 | 981 | -22 | 3 | 139 | 980 | -27 | 3 | 8 | 995 | -33 | 1 | 191 | 990 | -35 | 1 | 19 |
| 06 | 984 | -25 | 4 | 39 | 973 | -32 | 1 | 39 | 981 | -23 | 12 | 174 | 984 | -19 | 3 | 57 | 980 | -28 | 2 | 54 | 995 | -30 | 3 | 201 | 988 | -40 | 1 | 57 |
| 09 | 981 | -26 | 4 | 36 | 975 | -37 | 1 | 191 | 979 | -23 | 10 | 127 | 986 | -20 | 10 | 123 | 984 | -32 | 3 | 14 | 995 | -31 | 3 | 28 | 984 |  | 0 | 0 |
| 12 | 981 | -26 | 3 | 36 | 975 | -31 | 1 | 144 | 981 | -28 | 6 | 95 | 985 | -25 | 10 | 80 | 986 | -30 | 2 | 88 | 995 | -26 | 1 | 75 | 979 | -31 | 4 | 223 |
| 15 | 979 | -27 | 8 | 172 | 976 | -31 | 1 | 229 | 980 | -29 | 8 | 67 | 985 | -26 | 6 | 52 | 986 | -31 | 2 | 84 | 995 | -30 |  | 172 | 976 | -32 | 2 |  |
| 18 | 981 | -28 | 8 | 8170 | 974 | -28 | 5 | 299 | 980 | -24 | 2 | 59 | 986 | -30 | 4 | 39 | 989 | -31 | 2 | 94 | 995 | -32 | 4 |  | 970 | -34 | 2 | 23 |
| 21 | 980 | -32 | 6 | 691 | 974 | -25 |  | 310 | 980 | -23 |  | 246 | 984 | -32 | 2 | 87 | 995 | -34 | 2 | 53 | 997 | -32 | 3 | 11 | 970 |  | 2 |  |
|  |  |  | 29 |  |  |  |  |  |  | DAY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 969 | -35 | 0 | 0 | 969 | -28 | 6 | 73 | 981 | -22 | 2 | 87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 968 | -32 | 0 | 0 | 968 | -26 | 4 | 92 | 979 | -21 | 4 | 151 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 969 | -26 |  | 5223 | 969 | -28 | 4 | 61 | 980 | -20 | 9 | 146 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 963 | -24 |  | 7247 | 976 | -28 | 7 | 46 | 985 | -22 | 6 | 161 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 965 | -28 | 1 | 12 | 974 | -29 | 7 | 68 | 986 | -26 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 964 | -27 | 4 | 471 | 976 | -29 | 6 | 6 32 | 985 | -24 |  | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 963 | -31 |  | 421 | 979 | -24 | 6 | 6 167 | 985 | -24 |  | 129 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 964 | -32 |  | 3113 | 980 | -23 | 2 | 192 | 990 | -24 | 10 | 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-27.2$ Std dev $=9.2$ max $=-10.4$ at 1500 GMT ON day 16 min $=-47.4$ At 230 GMt on day 12
* THETA (K) * MEAN $=247.07$
* PRESSURE (MB) * MEAN $=980.3$ StD deV $=8.7$ MAX $=997.3$ at 2010 GMT ON DAY 27 MIN $=962.3$ AT 1110 GMt ON DAY 29
* WINDS (M/S) * MEAN $=4.1 \mathrm{STD}$ DEV $=4.5$ RESULTANT $=1.4$ FROM 144. CONSTANCY $=0.35 \mathrm{MAX}=27.9$ FROM 194. AT 720 GMT DAY 16
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $1.6 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 5 & 11 & 16 & 10 & 11 & 6 & 7 & 5 & 8 & 8 & 3 & 2 & 1 & 3 & 3 & 1\end{array}$

$\begin{array}{lllll}00 & 980 & -14 & 2 & 74\end{array}$ $\begin{array}{lllll}03 & 979 & -14 & 5 & 161\end{array}$ $\begin{array}{lllll}06 & 981 & -15 & 8 & 194\end{array}$ $\begin{array}{lllll}09 & 982 & -14 & 5 & 112\end{array}$ $\begin{array}{lllll}12 & 982 & -16 & 4 & 50\end{array}$ $15 \quad-20 \quad 4 \quad 22$ $\begin{array}{lllll}18 & 981 & -18 & 3 & 109\end{array}$ $\begin{array}{lllll}21 & 981 & -18 & 9 & 153\end{array}$

DAY 15
$00 \quad-27 \quad 6 \quad 106$ $03 \quad-28 \quad 4 \quad 97$ $\begin{array}{lllll}06 & 990 & -32 & 2 & 4\end{array}$ $\begin{array}{lllll}09 & 990 & -28 & 6 & 122\end{array}$ $\begin{array}{lllll}12 & 998 & -29 & 9 & 82\end{array}$ $\begin{array}{lllll}15 & 997 & -28 & 6 & 64\end{array}$ $\begin{array}{lllll}18 & 1001 & -29 & 3 & 106\end{array}$ 211001 -31 25

DAY 22
$\begin{array}{lllll}00 & 1013 & -14 & 5 & 47\end{array}$ $\begin{array}{lllll}03 & 1012 & -19 & 4 & 92\end{array}$ $\begin{array}{lllll}06 & 1013 & -14 & 10 & 188\end{array}$ $\begin{array}{lllll}09 & 1013 & -14 & 5 & 52\end{array}$ $\begin{array}{llll}12 & 1013 & -15 & 4 \\ 147\end{array}$ $\begin{array}{llll}15 & 1012 & -11 & 13 \\ 213\end{array}$ $\begin{array}{lllll}18 & 1012 & -21 & 9 & 87\end{array}$ $\begin{array}{llll}21 & 1012 & -14 \quad 4 \quad 64\end{array}$ DAY 29
$\begin{array}{lllll}00 & 1012 & -34 & 7 & 53\end{array}$ $\begin{array}{lllll}03 & 1012 & -32 & 9 & 71\end{array}$ $\begin{array}{lllll}06 & 1012 & -34 & 5 & 56\end{array}$ $09 \quad 1011 \quad-35 \quad 5 \quad 71$ $\begin{array}{lllll}12 & 1011 & -37 & 5 & 61\end{array}$ $\begin{array}{lllll}15 & 1007 & -36 & 7 & 56\end{array}$ $\begin{array}{lllll}18 & 1007 & -36 & 7 & 47\end{array}$ $\begin{array}{lllll}21 & 1007 & -35 & 7 & 60\end{array}$

PP

991 -24 2216
$\begin{array}{llll}991 & -24 & 7 & 45\end{array}$
$\begin{array}{llll}992 & -24 & 8 & 53\end{array}$
$\begin{array}{llll}996 & -26 & 9 & 67\end{array}$
$\begin{array}{llll}998 & -25 & 9 & 63\end{array}$
$\begin{array}{llll}996 & -28 & 8 & 74\end{array}$
$\begin{array}{llll}996 & -29 & 4 & 61\end{array}$
$\begin{array}{llll}997 & -30 & 7 & 66\end{array}$ DAY 9
979-17 0 0
979-17 10175
$\begin{array}{llll}974 & -18 & 4 & 75\end{array}$
$\begin{array}{llll}970 & -20 & 3 & 11\end{array}$
969-16 9323
$\begin{array}{llll}963 & -17 & 14 & 322\end{array}$
965-16 11324
968-17 1257 DAY 16
$\begin{array}{llll}997 & -33 & 2 & 53\end{array}$
$\begin{array}{llll}996 & -34 & 2 & 22\end{array}$
$\begin{array}{llll}997 & -37 & 2 & 4\end{array}$
$\begin{array}{llll}994 & -38 & 5 & 18\end{array}$
$\begin{array}{llll}992 & -37 & 6 & 32\end{array}$
$\begin{array}{llll}990 & -38 & 3 & 43\end{array}$
$\begin{array}{llll}992 & -37 & 6 & 1\end{array}$ DAY 23
1006-10 14 1007-19 2357 $\begin{array}{llll}1002 & -24 & 3 & 56\end{array}$ 1002-27 $3 \quad 33$ $\begin{array}{llll}997 & -25 & 2 & 9\end{array}$ $\begin{array}{llll}996 & -26 & 2 & 71\end{array}$ $\begin{array}{llll}995 & -24 & 0 & 0\end{array}$ $\begin{array}{llll}995 & -20 & 11 & 133\end{array}$ DAY 30
1006-33 639 1002-34 $5 \quad 56$ $\begin{array}{llll}1001 & -37 & 3 & 56\end{array}$ $\begin{array}{llll}1002 & -38 & 3 & 9\end{array}$ $\begin{array}{llll}1000 & -43 & 4 & 23\end{array}$ $\begin{array}{llll}999 & -43 & 3 & 49\end{array}$
$\begin{array}{llll}996 & -39 & 2 & 47\end{array}$

PP TT VV DD DAY 3
1001-35 3358
$1001-31 \quad 6 \quad 66$
$\begin{array}{llll}1002 & -32 & 5 & 91\end{array}$
$\begin{array}{llll}1001 & -36 & 4 & 26\end{array}$
$\begin{array}{llll}1002 & -35 & 5 & 56\end{array}$
$\begin{array}{llll}1006 & -31 & 5 & 1\end{array}$
$\begin{array}{llll}1007 & -28 & 6 & 50\end{array}$
1008-28 643 DAY 10
$\begin{array}{llll}968 & -22 & 9 & 113\end{array}$
$\begin{array}{llll}973 & -23 & 5 & 68\end{array}$
$\begin{array}{llll}975 & -22 & 6 & 68\end{array}$
$\begin{array}{llll}975 & -22 & 4 & 113\end{array}$
$\begin{array}{llll}980 & -18 & 5 & 133\end{array}$
981-19 14141
$\begin{array}{llll}981 & -19 & 7 & 177\end{array}$
982-18 6216 DAY 17
$\begin{array}{llll}991 & -34 & 5 & 16\end{array}$
$\begin{array}{llll}991 & -36 & 2 & 188\end{array}$
$990-36 \quad 2 \quad 212$
$\begin{array}{lll}-27 & 6 & 268\end{array}$
$\begin{array}{lll}-33 & 3 & 189\end{array}$
$\begin{array}{lll}-40 & 2 & 71\end{array}$
$\begin{array}{llll}988 & -40 & 2 & 50\end{array}$
988-34 1338
DAY 24
$\begin{array}{llll}997 & -23 & 8 & 73\end{array}$
$\begin{array}{llll}1001 & -26 & 9 & 63\end{array}$
$1002-28 \quad 6 \quad 66$
$1002-27 \quad 6 \quad 56$
$\begin{array}{llll}1006 & -28 & 5 & 78\end{array}$
1007-22 2112 1007-20 291
1006-21 10182


| PP |  |  | TT |
| :---: | :---: | :---: | :---: |
| DAY | DD |  |  |
| 1007 | -33 | 2 | 80 |
| 1006 | -33 | 4 | 12 |
| 1001 | -33 | 2 | 40 |
| 1003 | -31 | 3 | 91 |
| 1002 | -31 | 2 | 122 |
| 997 | -31 | 4 | 56 |
| 995 | -32 | 1 | 53 |
| 997 | -33 | 1 | 84 |
|  | DAY | 11 |  |
|  | -17 | 7 | 158 |
| 981 | -16 | 4 | 42 |
| 981 | -19 | 4 | 85 |
| 980 | -18 | 6 | 23 |
| 979 | -16 | 3 | 14 |
| 981 | -20 | 3 | 116 |
| 981 | -17 | 2 | 45 |
| 980 | -17 | 3 | 39 |

## DAY 18

$\begin{array}{lll}-37 & 1 & 174\end{array}$
$\begin{array}{lll}-32 & 2 & 90\end{array}$
$-2314174$
$\begin{array}{llll}992 & -24 & 5 & 57\end{array}$
$\begin{array}{llll}991 & -23 & 6 & 147\end{array}$
992-19 16187
$\begin{array}{lllll}991 & -18 & 11 & 171\end{array}$

- $16 \quad 26184$

DAY 25
1007-23 312 1006-19 178 1006-23 252 $\begin{array}{llll}1006 & -31 & 3 & 101\end{array}$ $\begin{array}{llll}1006 & -31 & 7 & 87\end{array}$ 1007-29 $4 \quad 30$ 1006-26 $5 \quad 40$ 1007-26 $6 \quad 36$

PP TT VV DD PP TT WV DD DAY 5
$\begin{array}{llll}995 & -31 & 2116\end{array}$
$\begin{array}{llll}991 & -31 & 1 & 73\end{array}$
$\begin{array}{llll}990 & -30 & 0 & 0\end{array}$
$\begin{array}{llll}991 & -30 & 1 & 19\end{array}$
990-31 0
$\begin{array}{llll}991 & -32 & 4 & 108\end{array}$
$\begin{array}{llll}991 & -31 & 2 & 360\end{array}$
991-31 3104 DAY 12
$\begin{array}{llll}981 & -15 & 3 & 67\end{array}$
$\begin{array}{llll}981 & -15 & 3 & 108\end{array}$
$\begin{array}{llll}981 & -17 & 2 & 36\end{array}$
$\begin{array}{llll}981 & -16 & 2 & 344\end{array}$
$\begin{array}{llll}980 & -17 & 2 & 11\end{array}$
980-15 $2 \quad 61$
980-18 2351
980-17 0 DAY 19
991 -15 20198 $\begin{array}{llll}991 & -16 & 27 & 194\end{array}$
$\begin{array}{llll}992 & -15 & 23198\end{array}$
1003-15 13185
1001-13 12175
1001-12 17177
1006-13 12150
1002-12 $4 \quad 75$
DAY 26
1008-29 564
$\begin{array}{llll}1011 & -32 & 26\end{array}$
$\begin{array}{lll}1011-30 & 4 & 40\end{array}$
$\begin{array}{llll}1011 & -30 \quad 5 \quad 40\end{array}$
$\begin{array}{llll}1011 & -32 & 3 & 32\end{array}$
$\begin{array}{llll}1011 & -34 & 3 & 45\end{array}$
$\begin{array}{llll}1011 & -34 & 2 & 29\end{array}$
$\begin{array}{llll}1011 & -37 \quad 3 & 45\end{array}$


* temperature ( $C$ ) * mean $=-25.6$ Std dev $=8.1$ MAX $=-9.5$ at 10 GMT ON day 23 MIN $=-46.6$ at 2240 GMt ON dAY 30
* ThETA (K) * MEAN $=248.06$
* PRESSURE (MB) * MEAN $=994.6$ STD DEV $=12.9$ mAX $=1013.6$ AT 2230 GMT ON DAY 21 MIN $=962.6$ AT 1610 GMT ON DAY 9
* WINDS (M/S) * MEAN $=5.0$ STD DEV $=4.1$ RESULTANT $=1.9$ FROM 96. CONSTANCY $=0.39$ maX $=28.5$ FROM 185 . AT 2010 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.9 \%$ PRESSURE: $7.5 \%$ WINDS: $2.9 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\quad 23 \quad 28$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 8 & 10 & 19 & 17 & 10 & 9 & 2 & 5 & 9 & 4 & 1 & 0 & 1 & 1 & 3 & 1\end{array}$

JUL 97

| HR | PP |  |  | DD | PP |  |  | DD | PP |  | VV | DD | PP |  |  | DD | PP |  |  | DD |  |  | V | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 995 | -44 | 0 | 0 | 991 | -48 | 1 | 30 | 990 | -33 | 0 | 0 | 973 | -25 | 1 | 2 | 998 | -19 | 7 | 125 | 981 | -21 | 5 | 33 | 980 | -18 | 4 | 98 |
| 03 | 994 | -44 | 0 | 0 | 991 | -39 | 0 | 0 | 991 | -26 | 2 | 15 | 975 | -23 | 3 | 29 | 997 | -18 | 7 | 150 | 981 | -26 | 6 | 108 | 981 | -17 | 3 | 130 |
| 06 | 993 | -48 | 0 | 0 | 990 | -38 | 0 | 0 | 986 | -22 | 4 | 40 | 979 | -16 | 10 | 189 | 996 | -19 | 0 | 0 | 985 | -26 | 6 | 109 | 980 | -17 | 6 | 177 |
| 09 | 992 | -46 | 1 | 56 | 990 | -37 | 0 | 0 | 986 | -19 | 4 | 54 | 987 | -18 | 17 | 189 | 991 | -18 | 8 | 175 | 985 | -23 | 5 | 165 | 976 | -16 | 1 | 122 |
| 12 | 991 | -39 | 0 | 0 | 991 | -38 | 0 | 0 | 979 | -19 | 1 | 40 | 992 | -18 | 14 | 175 | 992 | -21 | 7 | 175 | 986 | -25 | 9 | 165 | 975 | -15 | 2 | 164 |
| 15 | 991 | -45 | 0 | 0 | 990 | -35 | 1 | 201 | 976 | -29 | 3 | 182 | 992 | -19 | 10 | 158 | 990 | -21 | 7 | 147 | 986 | -24 | 17 | 180 | 976 | -15 | 5 | 40 |
| 18 | 990 | -46 | 0 | 0 | 991 | -34 | 0 | 0 | 975 | -27 | 1 | 127 | 997 | -18 | 6 | 188 | 985 | -20 | 2 | 85 | 986 | -21 | 13 | 198 | 976 | -14 | 3 | 104 |
| 21 | 991 | -48 | 0 | 0 | 989 | -35 | 0 | 0 | 975 | -26 | 4 | 127 | 997 | -19 | 12 | 165 | 986 | -21 | 5 | 37 | 985 | -19 | 3 | 112 | 974 | -14 | 6 | 122 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 970 | -17 | 2 | 357 | 976 | -20 | 2 | 149 | 985 | -25 | 3 | 71 | 962 | -33 | 4 | 7 | 979 | -35 | 8 | 80 | 995 | -30 | 2 | 132 | 986 | -24 | 1 | 43 |
| 03 | 974 | -22 | 1 | 35 | 980 | -18 | 1 | 45 | 986 | -22 | 3 | 109 | 962 | -39 | 1 | 68 | 985 | -37 | 9 | 78 | 996 | -25 | 1 | 140 | 981 | -29 | 6 | 122 |
| 06 | 976 | -22 | 5 | 21 | 980 | -18 | 6 | 331 | 980 | -22 | 4 | 77 | 959 | -37 | 3 | 70 | 985 | -38 | 8 | 82 | 997 | -25 | 5 | 158 | 979 | -31 | 4 | 11 |
| 09 | 979 | -24 | 6 | 112 | 986 | -23 | 5 | 9 | 980 | -21 | 2 | 113 | 957 | -38 | 3 | 68 | 990 | -38 | 9 | 60 | 997 | -25 | 0 | 0 | 979 | -33 | 2 | 46 |
| 12 | 980 | -20 | 8 | 158 | 990 | -25 | 6 | 98 | 974 | -23 | 3 | 28 | 959 | -34 | 9 | 135 | 991 | -37 | 8 | 59 | 996 | -25 | 6 | 177 | 975 | -35 | 1 | 37 |
| 15 | 980 | -23 | 0 | 0 | 991 | -24 | 16 | 178 | 971 | -28 | 5 | 98 | 962 | -36 | 6 | 11 | 992 | -35 | 4 | 54 | 991 | -23 | 1 | 120 | 973 | -33 | 2 | 43 |
| 18 | 980 | -23 | 1 | 30 | 991 | -23 | 14 | 196 | 970 | -32 | 4 | 22 | 965 | -33 | 8 | 115 | 996 | -35 | 1 | 59 | 990 | -32 | 2 | 355 | 975 | -33 | 1 | 54 |
| 21 | 979 | -17 | 4 | 306 | 990 | -23 | 5 | 81 | 965 | -33 | 3 | 21 | 970 | -36 | 9 | 78 | 997 | -33 | 4 | 140 | 986 | -28 | 2 | 111 | 975 | -35 | 1 | 50 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 976 | -35 | 2 | 36 | 985 | -29 | 3 | 311 | 997 | -20 | 3 | 42 | 990 | -41 | 3 | 88 | 991 | -35 | 3 | 97 | 995 | -36 | 0 | 0 | 997 | -43 | 2 | 9 |
| 03 | 973 | -37 | 2 | 68 | 989 | -28 | 2 | 313 | 997 | -26 | 0 | 0 | 985 | -44 | 2 | 64 | 989 | -39 | 3 | 130 | 995 | -36 | 0 | 0 | 995 | -43 | 1 | 91 |
| 06 | 974 | -37 | 3 | 36 | 990 | -32 | 5 | 358 | 997 | -28 | 3 | 57 | 984 | -42 | 2 | 21 | 990 | -43 | 2 | 11 | 995 | -30 | 1 | 217 | 995 | -48 | 1 | 18 |
| 09 | 979 | -33 | 2 | 8 | 992 | -25 | 1 | 215 | 997 | -31 | 3 | 4 | 984 | -38 | 1 | 355 | 991 | -39 | 1 | 25 | 995 | -29 | 1 | 203 | 993 | $-46$ | 0 | 0 |
| 12 | 979 | -35 | 3 | 16 | 992 | -23 | 3 | 119 | 996 | -34 | 3 | 37 | 984 | -36 | 1 | 184 | 991 | -40 | 2 | 60 | 996 | -38 | 1 | 50 | 991 | -47 | 1 | 66 |
| 15 | 980 | -33 | 2 | 75 | 995 | -23 | 3 | 31 | 995 | -34 | 3 | 14 | 984 | -42 | 4 | 14 | 991 | -44 | 2 | 43 | 996 | -40 | 0 | 0 | 991 | -44 | 0 | 0 |
| 18 | 984 | -33 | 1 | 160 | 996 | -23 | 2 | 261 | 991 | -35 | 2 | 25 | 985 | -40 | 4 | 21 | 992 | -39 | 0 | 0 | 997 | -45 | 2 | 40 | 991 | -42 | 0 | 0 |
| 21 | 986 | -31 | 1 | 350 | 997 | -23 | 3 | 348 | 989 | -34 | 2 | 9 | 990 | -40 | 3 | 49 | 995 | -37 | 0 | 0 | 996 | -38 | 2 | 47 | 991 | -40 | 0 | 0 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 991 | -40 | 1 | 18 | 985 | -43 | 4 | 4 11 | 990 | -44 | 2 | 56 | 996 | -29 | 4 | 104 | 979 | -34 | 2 | 33 | 995 | -30 | 2 | 194 | 995 | -44 | 4 | 57 |
| 03 | 991 | -44 | 0 | 0 | 984 | -43 | 4 | 19 | 990 | -43 | 3 | 43 | 991 | -26 | 8 | 59 | 981 | -30 | 2 | 7 | 992 | -32 | 1 | 43 | 996 | -42 | 3 | 45 |
| 06 | 990 | -44 | 0 | 0 | 984 | -41 | 4 | 4 52 | 991 | -43 | 1 | 108 | 991 | -31 | 8 | 88 | 981 | -27 | 3 | 66 | 996 | -33 | 4 | 22 | 996 | -44 | 4 | 26 |
| 09 | 989 | -33 | 7 | 182 | 986 | -39 | 1 | 54 | 995 | -40 | 5 | 57 | 990 | -29 | 3 | 67 | 980 | -28 | 3 | 142 | 996 | -33 | 4 | 71 | 996 | -37 | 4 | 22 |
| 12 | 986 | -31 | 11 | 158 | 986 | -39 | 1 | 23 | 995 | -33 | 8 | 87 | 986 | -31 | 4 | 35 | 985 | -30 | 3 | 97 | 995 | -34 | 6 | 61 | 996 | -37 | 5 | 26 |
| 15 | 987 | -39 | 2 | 70 | 984 | -41 | 1 | 29 | 996 | -32 | 6 | 101 | 984 | -33 | 4 | 33 | 986 | -29 | 4 | 81 | 992 | -35 | 4 | 81 | 996 | -40 | 4 | 30 |
| 18 | 986 | -43 | 5 | 11 | 984 | -42 | 2 | 236 | 996 | -31 | 7 | 49 | 985 | -33 | 3 | 45 | 991 | -32 | 5 | 42 | 991 | -39 | 4 | 70 | 996 | -43 | 3 | 36 |
| 21 | 986 | -43 | 4 | 354 | 986 | -41 | 2 | 29 | 996 | -27 | 9 | 115 | 980 | -37 | 3 | 71 | 991 | -36 | 3 | 126 | 992 | -37 | 5 | 82 | 995 | -41 | 4 | 8 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 995 | -41 | 3 | 19 | 975 | -38 | 6 | 105 | 985 | -38 | 1 | 344 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 996 | -44 | 4 | 26 | 975 | -40 | 8 | 83 | 986 | -41 | 4 | 91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 995 | -48 | 3 | 81 | 978 | -40 | 7 | 75 | 984 | -40 | 3 | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 991 | $-50$ | 0 | 0 | 980 | -44 | 5 | 535 | 986 | -39 | 3 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 991 | -46 | 4 | 87 | 978 | -41 | 5 | 5 | 986 | -41 | 1 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 989 | -46 | 3 | 25 | 979 | -44 | 2 | 222 | 991 | -44 | 2 | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 985 | -43 | 1 | 28 | 980 | -41 | 3 | 321 | 991 | -47 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 980 | -44 | 4 | 35 | 984 | -42 |  | 3358 | 995 | -49 | 4 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-32.8$ STD DEV $=9.0$ MAX $=-13.0$ AT 1640 GMT ON DAY 7 MIN $=-50.4$ AT 840 GMT ON DAY 29
* THETA (K) * MEAN = 241.30
* PRESSURE (MB) * MEAN $=986.5$ STD DEV $=8.4$ MAX $=997.8$ AT 2350 GMT ON DAY 4 MIN $=955.0$ AT 850 GMT ON DAY 11
* WINDS (M/S) * MEAN $=3.4$ STD DEV $=3.1$ RESULTANT $=1.7$ FROM 85 . CONSTANCY $=0.50$ MAX $=19.7$ FROM 175 . AT 1530 GMT DAY 6 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: 0.0 \% WINDS: 0.0 \% $\begin{array}{lrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 \\ \text { PERCENT: } & 37 & 34 & 13 & 8 & 5 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array} 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 12 & 16 & 19 & 13 & 10 & 8 & 5 & 6 & 6 & 2 & 1 & 0 & 0 & 0 & 1 & 1\end{array}$

AUG 97

| HR | PP |  | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 995 | -49 | 3 | 43 | 975 | -45 | 0 | 0 | 978 | -35 | 4 | 201 |
| 03 | 996 | -39 | 4 | 29 | 974 | -43 | 0 | 0 | 979 | -35 | 7 | 163 |
| 06 | 995 | -38 | 3 | 345 | 969 | -46 | 1 | 5 | 980 | -37 | 1 | 42 |
| 09 | 996 | -44 | 0 | 0 | 969 | -46 | 3 | 56 | 979 | -47 | 5 | 30 |
| 12 | 994 | -39 | 0 | 0 | 974 | -51 | 3 | 40 | 980 | -46 | 3 | 46 |
| 15 | 989 | -42 | 1 | 129 | 973 | -47 | 4 | 68 | 978 | -50 | 0 | 0 |
| 18 | 985 | -41 | 0 | 0 | 974 | -46 | 2 | 11 | 974 | -47 | 3 | 23 |
| 21 | 979 | -42 | 0 | 0 | 979 | -42 | 0 | 0 | 972 | -43 | 3 | 56 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 978 | -42 | 4 | 9 | 957 | -43 | 3 | 122 | 984 | -33 | 14 | 168 |
| 03 | 981 | -36 | 0 | 0 | 957 | -33 | 4 | 132 | 990 | -32 | 11 | 143 |
| 06 | 979 | -37 | 1 | 296 | 958 | -18 | 13 | 202 | 990 | -31 | 7 | 133 |
| 09 | 978 | -37 | 4 | 347 | 963 | -27 | 5 | 78 | 980 | -31 | 6 | 33 |
| 12 | 974 | -44 | 2 | 194 | 969 | -35 | 6 | 74 | 974 | -24 | 5 | 331 |
| 15 | 969 | -41 | 1 | 99 | 975 | -33 | 10 | 123 | 963 | -21 | 12 | 322 |
| 18 | 964 | -31 | 2 | 209 | 979 | -35 | 6 | 127 | 964 | -18 | 16 | 202 |
| 21 | 964 | -39 | 4 | 158 | 981 | -34 | 11 | 189 | 968 | -17 | 13 | 187 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 991 | -24 | 7 | 84 | 980 | -22 | 6 | 26 | 975 | -21 | 7 | 157 |
| 03 | 992 | -21 | 4 | 177 | 975 | -21 | 0 | 0 | 979 | -23 | 11 | 156 |
| 06 | 992 | -22 | 4 | 125 | 976 | -21 | 2 | 350 | 981 | -21 | 9 | 92 |
| 09 | 991 | -24 | 4 | 158 | 974 | -23 | 3 | 360 | 981 | -20 | 8 | 129 |
| 12 | 991 | -30 | 5 | 99 | 970 | -26 | 4 | 108 | 985 | -20 | 2 | 91 |
| 15 | 986 | -30 | 6 | 63 | 970 | -29 | 3 | 74 | 985 | -18 | 2 | 177 |
| 18 | 984 | -25 | 7 | 73 | 970 | -23 | 4 | 345 | 987 | -21 | 5 | 203 |
| 21 | 981 | -22 | 5 | 116 | 974 | -17 | 3 | 262 | 986 | -22 | 7 | 82 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 990 | -30 | 2 | 343 | 995 | -34 | 4 | 357 | 990 | -36 | 3 | 81 |
| 03 | 991 | -28 | 2 | 22 | 997 | -28 | 3 | 52 | 991 | -36 | 1 | 54 |
| 06 | 995 | -36 | 4 | 360 | 995 | -34 | 3 | 28 | 990 | -38 | 2 | 95 |
| 09 | 996 | -39 | 3 | 36 | 996 | -34 | 3 | 22 | 991 | -45 | 3 | 29 |
| 12 | 997 | -38 | 3 | 28 | 992 | -27 | 0 | 0 | 990 | -43 | 2 | 136 |
| 15 | 996 | -38 | 1 | 360 | 995 | -41 | 3 | 15 | 989 | -34 | 1 | 309 |
| 18 | 997 | -33 | 3 | 1 | 991 | -40 | 4 | 2 | 986 | -36 | 1 | 251 |
| 21 | 995 | -35 | 4 | 60 | 991 | -40 | 4 | 14 | 985 | -43 | 1 | 143 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |
| 00 | 1000 | -42 | 0 | 0 | 995 | -40 | 0 | 0 | 994 | -45 | 0 | 0 |
| 03 | 1000 | -42 | 0 | 0 | 997 | -40 | 1 | 64 | 994 | -42 | 0 | 0 |
| 06 | 1000 | -44 | 0 | 0 | 997 | -39 | 1 | 82 | 992 | -45 | 0 | 0 |
| 09 | 997 | -42 | 0 | 0 | 996 | -42 | 0 | 0 | 991 | -44 | 0 | 0 |
| 12 | 1000 | -41 | 0 | 0 | 995 | -43 | 0 | 0 | 991 | -42 | 0 | 0 |
| 15 | 996 | -39 | 0 | 0 | 995 | -43 | 0 | 0 | 990 | -41 | 0 | 0 |
| 18 | 996 | -39 | 0 | 0 | 992 | -44 | 0 | 0 | 989 | -44 | 0 | 0 |
| 21 | 995 | -40 | 0 | 0 | 994 | -44 | 0 | 0 | 991 | -43 | 0 | 0 |


| PP | IT | v | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 972 | -48 | 2 | 90 | 985 | -42 | 6 | 33 | 979 | -45 | 0 | 0 | 975 | -38 | 1 | 115 |
| 973 | -50 | 0 | 0 | 984 | -42 | 4 | 29 | 979 | -44 | 2 | 191 | 973 | -40 | 1 | 177 |
| 978 | -51 | 1 | 39 | 984 | -45 | 2 | 35 | 974 | -43 | 4 | 226 | 969 | -38 | 4 | 201 |
| 980 | -46 | 5 | 46 | 985 | -45 | 5 | 22 | 974 | -42 | 3 | 213 | 973 | -39 | 7 | 50 |
| 985 | -41 | 3 | 36 | 984 | -48 | 0 | 0 | 975 | -43 | 1 | 212 | 975 | -39 | 1 | 137 |
| 986 | -33 | 4 | 115 | 984 | -46 | 1 | 35 | 975 | -40 | 2 | 199 | 975 | -37 | 1 | 73 |
| 986 | -33 | 6 | 156 | 983 | -51 | 3 | 33 | 978 | -39 | 1 | 298 | 979 | -32 | 0 | 0 |
| 984 | -40 | 7 | 92 | 984 | -44 | 3 | 46 | 978 | -43 | 0 | 0 | 980 | -35 | 3 | 91 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 969 | -16 | 16 | 189 | 986 | -40 | 3 | 108 | 980 | -31 | 1 | 305 | 976 | -22 | 6 | 99 |
| 970 | -18 | 13 | 175 | 986 | -37 | 3 | 84 | 974 | -25 | 1 | 150 | 980 | -33 | 11 | 104 |
| 979 | -31 | 8 | 99 | 989 | -40 | 5 | 46 | 975 | -19 | 0 | 0 | 985 | -35 | 12 | 75 |
| 979 | -28 | 15 | 181 | 986 | -38 | 6 | 35 | 976 | -21 | 1 | 177 | 987 | -25 | 7 | 75 |
| 986 | -28 | 4 | 45 | 985 | -34 | 4 | 73 | 974 | -18 | 3 | 80 | 987 | -19 | 9 | 144 |
| 989 | -32 | 10 | 77 | 984 | -33 | 0 | 0 | 976 | -17 | 5 | 28 | 986 | -18 | 9 | 150 |
| 990 | -34 | 8 | 88 | 984 | -35 | 0 | 0 | 976 | -18 | 12 | 156 | 990 | -19 | 7 | 181 |
| 990 | -36 | 6 | 40 | 980 | -34 | 1 | 122 | 975 | -19 | 2 | 139 | 991 | -24 | 5 | 92 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 992 | -25 | 2 | 98 | 981 | -25 | 0 | 0 | 990 | -24 | 11 | 163 | 985 | -28 | 0 | 0 |
| 991 | -28 | 6 | 104 | 984 | -37 | 2 | 68 | 991 | -23 | 9 | 149 | 985 | -33 | 1 | 54 |
| 990 | -30 | 3 | 8 | 984 | -31 | 0 | 0 | 991 | -27 | 3 | 360 | 985 | -27 | 0 | 0 |
| 985 | -34 | 1 | 56 | 985 | -34 | 1 | 1 | 990 | -22 | 5 | 296 | 986 | -28 | 1 | 260 |
| 985 | -30 | 1 | 98 | 985 | -29 | 3 | 220 | 987 | -30 | 3 | 201 | 986 | -33 | 2 | 153 |
| 981 | -21 | 7 | 295 | 986 | -32 | 1 | 202 | 986 | -31 | 1 | 316 | 990 | -37 | 3 | 8 |
| 979 | -24 | 2 | 21 | 985 | -29 | 3 | 60 | 985 | -30 | 2 | 14 | 990 | -32 | 1 | 230 |
| 980 | -22 | 3 | 310 | 990 | -22 |  | . 127 | 985 | -33 | 1 | 39 | 991 | -35 | 2 | 237 |
|  |  | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 985 | -36 | 2 | 206 | 990 | -35 |  | 217 | 991 | -45 | 0 | 0 | 986 | -43 | 0 | 0 |
| 989 | -36 | 1 | 80 | 992 | -35 | 3 | 45 | 990 | -49 | 0 | 0 | 989 | -46 | 0 | 0 |
| 990 | -29 | 1 | 133 | 992 | -37 | 1 | 70 | 990 | -46 | 0 | 0 | 991 | -47 | 0 | 0 |
| 992 | -39 | 6 | 21 | 991 | -33 | 1 | 28 | 990 | -49 | 1 | 19 | 990 | -50 | 0 | 0 |
| 991 | -38 | 6 | 39 | 991 | -38 | 1 | 22 | 989 | -51 | 1 | 57 | 995 | -47 | 0 | 0 |
| 990 | -37 | 1 | 15 | 990 | -39 | 1 | 28 | 989 | -50 | 0 | 0 | 996 | -40 | 0 | 0 |
| 991 | -38 | 6 | 247 | 989 | -37 | 1 | 12 | 988 | -44 | 0 | 0 | 996 | -46 | 1 | 75 |
| 990 | -36 |  | 216 | 991 | -44 | 1 | 59 | 985 | -44 | 0 | 0 | 1000 | -45 | 0 | 0 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-35.0$ Std dev $=8.9$ max $=-15.2$ at 2220 GMT ON DAY 16 MIN $=-52.0$ at 110 GMt ON dAY 4
* THETA (K) * MEAN $=239.20$
* PRESSURE (MB) * MEAN $=984.4$ STD DEV $=8.8$ MAX $=1000.3$ AT 2350 GMT ON DAY 28 MIN $=956.3$ AT 140 GMT ON DAY 9
* WINDS (M/S) * MEAN $=3.2$ STD DEV $=3.4$ RESULTANT $=1.2$ FROM 104. CONSTANCY $=0.38$ MAX $=19.7$ FROM 160 . AT 210 GMT DAY 17 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW PERCENT

* TEMPERATURE (C) * MEAN $=-27.9$ STD DEV $=9.8 \mathrm{MAX}=-4.2$ AT 1900 GMT ON DAY 24 MIN $=-50.8$ AT 1200 GMT ON DAY 1
* THETA (K) * MEAN $=246.18$
* PRESSURE (MB) * MEAN $=987.9$ STD DEV $=8.6$ MAX $=1007.8$ AT 20 GMT ON DAY 13 MIN $=967.6$ AT 1830 GMT ON DAY 10
* WINDS (M/S) * MEAN $=4.9$ STD DEV $=3.9$ RESULTANT $=2.4$ FROM 109. CONSTANCY $=0.48$ MAX $=25.2$ FROM 195. AT 1300 GMT DAY 25 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{llllllllllllllll}4 & 12 & 16 & 16 & 11 & 6 & 8 & 8 & 9 & 3 & 3 & 0 & 1 & 0 & 1 & 1\end{array}$


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-16.3$ STD DEV $=4.9$ MAX $=-5.4$ AT 1340 GMT ON DAY 2 MIN $=-31.1$ AT 1240 GMT ON DAY 19
* THETA (K) * MEAN $=258.04$
* PRESSURE (MB) * MEAN $=983.6$ STD DEV $=8.7$ MAX $=1001.5$ AT 230 GMT ON DAY 8 MIN $=957.6$ AT 1500 GMT ON DAY 23
* WINDS (M/S) * MEAN $=5.9$ STD DEV $=4.9$ RESULTANT $=2.8$ FROM 140. CONSTANCY $=0.47$ MAX $=27.5$ FROM 199. AT 1400 GMT DAY 23 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 13 & 31 & 25 & 10 & 6 & 4 & 2 & 1 & 4 & 2 & 2 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT
$\begin{array}{llllllllllllllll}5 & 10 & 15 & 16 & 10 & 8 & 6 & 8 & 10 & 9 & 0 & 0 & 0 & 0 & 0 & 1\end{array}$

NOV 97
HR PP TT VV DD DAY 1
$00 \quad 975 \quad-20 \quad 2 \quad 25$ $\begin{array}{llll}03 & 975 & -19 & 2 \\ 360\end{array}$ $\begin{array}{lllll}06 & 974 & -19 & 2 & 49\end{array}$
$09 \quad 974-20 \quad 6 \quad 132$
$\begin{array}{lllll}12 & 974 & -22 & 7 & 104\end{array}$
$\begin{array}{lllll}15 & 975 & -21 & 6 & 73\end{array}$
$\begin{array}{lllll}18 & 973 & -22 & 5 & 42\end{array}$
$\begin{array}{lllll}21 & 975 & -20 & 7168\end{array}$ DAY 8
$\begin{array}{lllll}00 & 996 & -5 & 3 & 157\end{array}$
$\begin{array}{lllll}03 & 993 & -5 & 5 & 130\end{array}$
$\begin{array}{lllll}06 & 987 & -4 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 986 & -3 & 3 & 167\end{array}$
$\begin{array}{lllll}12 & 986 & -5 & 6 & 112\end{array}$
$\begin{array}{lllll}15 & 986 & -5 & 14 & 199\end{array}$
$\begin{array}{lllll}18 & 986 & -6 & 23 & 194\end{array}$
$\begin{array}{lllll}21 & 992 & -5 & 14 & 172\end{array}$ DAY 15
$\begin{array}{lllll}00 & 991 & -5 & 11 & 203\end{array}$
$\begin{array}{lllll}03 & 991 & -4 & 10 & 151\end{array}$
$\begin{array}{lllll}06 & 990 & -4 & 6 & 191\end{array}$
$09 \quad-4 \quad 10 \quad 178$
$\begin{array}{lllll}12 & 992 & -5 & 4 & 136\end{array}$
$\begin{array}{lllll}15 & 993 & -5 & 5 & 157\end{array}$
$\begin{array}{lllll}18 & 991 & -5 & 9 & 165\end{array}$
$\begin{array}{lllll}21 & 991 & -5 & 12 & 165\end{array}$ DAY 22
$\begin{array}{lllll}00 & 1008 & -2 & 4 & 43\end{array}$
$\begin{array}{lllll}03 & 1008 & -1 & 7 & 78\end{array}$
$\begin{array}{lllll}06 & 1007 & -2 & 3 & 78\end{array}$
$\begin{array}{lllll}09 & 1008 & -4 & 4 & 77\end{array}$
$\begin{array}{lllll}12 & 1008 & -5 & 6 & 88\end{array}$
$\begin{array}{lllll}15 & 1008 & -7 & 4 & 122\end{array}$
$\begin{array}{lllll}18 & 1012 & -7 & 3 & 42\end{array}$
$\begin{array}{lllll}21 & 1013 & -4 & 2 & 60\end{array}$ DAY 29
$\begin{array}{lllll}00 & 996 & -8 & 3 & 172\end{array}$
$\begin{array}{lllll}03 & 997 & -8 & 3 & 45\end{array}$
$\begin{array}{lllll}06 & 997 & -9 & 4 & 32\end{array}$
$\begin{array}{lllll}09 & 998 & -10 & 3 & 28\end{array}$
$\begin{array}{llll}12 & 1002 & -10 & 3\end{array} 57$
$\begin{array}{lllll}15 & 1002 & -10 \quad 2 & 33\end{array}$
$\begin{array}{lllll}18 & 1001 & -9 & 1 & 30\end{array}$
$\begin{array}{lllll}21 & 1002 & -8 & 1 & 344\end{array}$
PP TT VV DD PP TT VV DD

PP TT VV DD.

$$
\text { DAY } 4
$$

970-12 $2 \quad 80$
971-16 9160
970-13 $11 \quad 177$
$970-1013205$
$\begin{array}{llll}969 & -9 & 16 & 201\end{array}$
$968 \quad-913198$
970-10 17205
975-10 13182
DAY 11
$\begin{array}{llll}1002 & -4 & 9 & 142\end{array}$
$\begin{array}{llll}1002 & -2 & 4 & 68\end{array}$
$\begin{array}{llll}997 & -2 & 4 & 87\end{array}$
$\begin{array}{llll}997 & -5 & 7 & 139\end{array}$
$\begin{array}{lll}-7 & 4 & 71\end{array}$
$\begin{array}{llll}997 & -9 & 6 & 26\end{array}$
$\begin{array}{llll}997 & -4 & 2 & 84\end{array}$
$\begin{array}{llll}997 & -4 & 5 & 118\end{array}$
DAY 18
$\begin{array}{lll}987 & -6 & 7151\end{array}$
$\begin{array}{llll}985 & -3 & 8 & 230\end{array}$
$\begin{array}{llll}985 & -4 & 3 & 170\end{array}$
$\begin{array}{llll}986 & -5 & 4151\end{array}$
$\begin{array}{llll}987 & -4 & 3 & 132\end{array}$
$\begin{array}{llll}990 & -3 & 5 & 123\end{array}$
$\begin{array}{llll}991 & -3 & 8 & 143\end{array}$
$\begin{array}{llll}992 & -2 & 8 & 127\end{array}$
DAY 25
$\begin{array}{llll}1012 & -5 & 4 & 101\end{array}$
$\begin{array}{llll}1012 & -4 & 4 & 88\end{array}$
$\begin{array}{llll}1011 & -4 & 4 & 99\end{array}$
$\begin{array}{llll}1008 & -5 & 2 & 81\end{array}$
$\begin{array}{llll}1008 & -6 & 2 & 14\end{array}$
$\begin{array}{llll}1008 & -5 & 1 & 29\end{array}$
$\begin{array}{llll}1008 & -4 & 2 & 19\end{array}$
$\begin{array}{lll}1007 & -5 & 2\end{array}$

|  | $\begin{gathered} \text { TT } \\ \text { dAY } \end{gathered}$ |  | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 974 | -9 | 19 | 199 | 985 | -7 | 20 | 195 | 991 | -9 | 11 | 168 |
| 975 | -9 | 23 | 191 | 986 | -9 | 13 | 181 | 991 | -6 | 8 | 160 |
| 976 | -8 | 16 | 196 | 992 | -8 | 5 | 112 | 991 | -5 | 7 | 181 |
| 980 | -8 | 15 | 202 | 991 | -9 | 4 | 60 | 996 | -9 | 4 | 146 |
| 979 | -8 | 17 | 208 | 987 | -8 | 5 | 43 | 997 | -10 | 2 | 140 |
| 980 | -8 | 20 | 196 | 986 | -6 | 7 | 50 | 997 | -7 | 0 | 0 |
| 981 | -9 | 19 | 196 | 990 | -12 | 6 | 95 | 998 | -7 | 7 | 133 |
| 985 | -8 | 12 | 196 | 992 | -9 | 3 | 47 | 996 | -6 | 10 | 164 |
|  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 998 | -3 | 3 | 61 | 998 | -9 | 6 | 98 | 996 | -8 | 4 | 157 |
| 998 | -3 | 2 | 115 | 997 | -9 | 8 | 73 |  | -7 | 7 | 92 |
| 997 | -3 | 3 | 177 | 997 | -10 | 6 | 92 | 996 | -8 | 6 | 151 |
| 998 | -6 | 3 | 130 | 996 | -12 | 3 | 352 | 992 | -7 | 5 | 97 |
| 997 | -8 | 9 | 172 | 996 | -12 | 1 | 45 | 991 | -7 | 5 | 156 |
| 998 | -7 | 0 | 0 | 996 | -13 | 3 | 68 | 991 | -5 | 4 | 151 |
| 996 | -11 | 6 | 66 | 996 | -11 | 7 | 161 | 992 | -5 | 4 | 35 |
| 996 | -9 | 6 | 80 | 996 | -9 | 9 | 167 | 992 | -5 | 4 | 85 |
|  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 991 | -1 | 2 | 7 | 1001 | -2 | 11 | 147 | 1001 | 1 | 6 | 52 |
| 993 | -3 | 5 | 156 | 1002 | -2 | 9 | 111 | 1001 | 0 | 6 | 175 |
| 996 | -3 | 6 | 127 | 1003 | 0 | 6 | 74 | 1001 | 2 | 2 | 126 |
| 997 | -2 | 6 | 165 | 1003 | -1 | 7 | 115 | 1001 | -1 | 4 | 61 |
| 998 | -2 | 8 | 182 | 1003 | -1 | 8 | 161 | 1001 | -3 | 2 | 82 |
| 998 | -1 | 9 | 185 | 1002 | -1 | 6 | 132 | 1002 | -5 | 3 | 66 |
| 997 | -2 | 10 | 167 | 1001 | -4 | 4 | 30 | 1003 | -4 | 1 | 120 |
| 998 | -2 | 7 | 158 | 1001 | -1 | 4 | 43 | 1007 | -3 | 2 | 29 |
|  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 1007 | -3 | 3 | 57 | 1003 | -2 | 1 | 78 | 992 | -9 | 4 | 99 |
| 1006 | -4 | 4 | 98 | 1001 | -3 | 3 | 122 | 991 | -9 | 4 | 90 |
| 1008 | -5 | 3 | 61 | 997 | -4 | 2 | 91 | 991 | -10 | 5 | 99 |
| 1008 | -6 | 3 | 47 | 996 | -4 | 1 | 118 | 991 | -12 | 7 | 102 |
| 1007 | -6 | 1 | 4 | 998 | -7 | 4 | 118 | 992 | -13 | 7 | 108 |
| 1003 | -6 | 2 | 26 | 997 | -7 | 5 | 126 | 992 | -12 | 6 | 91 |
| 1002 | -5 | 1 | 50 | 996 | -10 | 5 | 104 | 996 | -11 | 5 | 43 |
| 1001 | -4 | 2 | 85 | 996 | -9 | 4 | 81 | 997 | -9 | 3 | 150 |

* TEMPERATURE $(C) *$ mean $=-7.3$ Std dev $=5.4$ MAX $=2.9$ at 550 GMt on day 21 min $=-27.2$ at 1400 gmt on day 3
* theta (K) * MEAN $=266.25$
* PRESSURE (MB) * MEAN $=994.3$ STD DEV $=11.4$ MAX $=1013.6$ AT 1640 GMT ON DAY 23 MIN $=968.2$ AT 1500 GMT ON DAY 4
* WINDS (M/S) * MEAN $=6.0$ STD DEV $=4.4$ RESULTANT $=3.7$ FROM 144. CONSTANCY $=0.62$ MAX $=25.2$ FROM 198. AT 1830 GMT DAY 8 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $1.2 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{lll}\text { HR } & \text { PP TT VV } \\ & \text { DAY } & 1\end{array}$
001001 -5 4165 $\begin{array}{lllll}03 & 1001 & -7 & 4 & 14\end{array}$ 061002 -5 2343 091001 -5 5285 $\begin{array}{llll}12 & 1001 & -7 & 2329\end{array}$ $\begin{array}{lllll}15 & 997 & -9 & 3 & 92\end{array}$ $\begin{array}{lllll}18 & 997 & -6 & 1 & 29\end{array}$ $\begin{array}{lllll}21 & 997 & -6 & 2 & 37\end{array}$ DAY 8
$\begin{array}{lllll}00 & 1008 & -7 & 5 & 71\end{array}$ $\begin{array}{lllll}03 & 1007 & -7 & 3 & 84\end{array}$ $\begin{array}{lllll}06 & 1007 & -9 & 3 & 75\end{array}$ 09 1007-10 $4 \quad 84$ $\begin{array}{llll}12 & 1006-11 & 3 & 90\end{array}$ $\begin{array}{llll}15 & 1008 & -13 & 2\end{array} 56$ $\begin{array}{llll}18 & 1008 & -16 & 3\end{array} 26$ 21 1007-13 242 DAY 15
$\begin{array}{lllll}00 & 997 & -4 & 4 & 99\end{array}$ $\begin{array}{lllll}03 & 996 & -4 & 3 & 9\end{array}$ $\begin{array}{lllll}06 & 997 & -1 & 1 & 32\end{array}$ $\begin{array}{lllll}09 & 997 & -7 & 2 & 14\end{array}$ $\begin{array}{llll}12 & 997 & -16 & 2\end{array}$ $\begin{array}{llll}15 & 997 & -12 & 2\end{array} 53$ $\begin{array}{lllll}18 & 996 & -7 & 1 & 30\end{array}$
$\begin{array}{lllll}21 & 996 & -6 & 2 & 54\end{array}$ DAY 22
$\begin{array}{lllll}00 & 997 & 1 & 1 & 312\end{array}$ $\begin{array}{lllll}03 & 996 & 3 & 1 & 30\end{array}$ $\begin{array}{lllll}06 & 995 & -1 & 2 & 35\end{array}$ $\begin{array}{lllll}09 & 997 & -4 & 1 & 25\end{array}$ $\begin{array}{lllll}12 & 997 & -8 & 1 & 92\end{array}$ $\begin{array}{lllll}15 & 996 & -10 & 2 & 5\end{array}$ $\begin{array}{lllll}18 & 993 & -4 & 2 & 360\end{array}$
$\begin{array}{lllll}21 & 992 & 0 & 22\end{array}$ DAY 29
$\begin{array}{rrrrr}00 & 996 & 1 & 6 & 305 \\ 03 & 992 & 1 & 4 & 267 \\ 06 & 991 & 0 & 3 & 255 \\ 09 & 990 & -1 & 3 & 239 \\ 12 & 990 & 0 & 1 & 229 \\ 15 & 990 & -2 & 1 & 139 \\ 18 & 990 & -2 & 2 & 11 \\ 21 & 992 & -1 & 4 & 112\end{array}$

| PP | TT | VV | DD | PP |  |  |  | IT |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| DAY | 2 |  | DAY |  |  |  | 3 | DD |
| 996 | -4 | 2 | 57 | 1002 | -7 | 6 | 139 |  |
| 996 | -2 | 3 | 39 | 1002 | -2 | 2 | 46 |  |
| 996 | -3 | 2 | 68 | 1002 | -4 | 2 | 340 |  |
| 996 | -6 | 2 | 1 | 1002 | -7 | 3 | 165 |  |
| 996 | -8 | 1 | 5 | 1003 | -9 | 5 | 168 |  |
| 996 | -8 | 6 | 171 | 1003 | -9 | 3 | 170 |  |
| 997 | -8 | 5 | 157 | 1003 | -9 | 1 | 105 |  |
| 1001 | -6 | 5 | 205 | 1003 | -6 | 2 | 25 |  |

PP TT VV DD DAY 4 $\begin{array}{llll}1001 & -5 & 3 & 105\end{array}$ $\begin{array}{llll}1001 & -5 & 3 & 99\end{array}$ $\begin{array}{llll}1002 & -8 & 5 & 92\end{array}$ $\begin{array}{llll}1002 & -9 & 3 & 85\end{array}$ 1006-11 3101 1007-14 253 1007-14 242 1011-11 343 DAY 11
996-11 688 $\begin{array}{llll}996 & -11 & 6 & 78\end{array}$ $\begin{array}{llll}996 & -11 & 5 & 70\end{array}$ 998-14 $4 \quad 42$ $\begin{array}{llll}997 & -14 & 4 & 57\end{array}$ 997-14 3 66 $\begin{array}{llll}996 & -10 & 2 & 16\end{array}$ $\begin{array}{llll}992 & -6 & 1 & 85\end{array}$ DAY 18 $\begin{array}{llll}992 & -6 & 3 & 54\end{array}$ $\begin{array}{llll}992 & -7 & 3 & 75\end{array}$ $\begin{array}{llll}993 & -7 & 7 & 91\end{array}$ $\begin{array}{llll}996 & -8 & 4 & 54\end{array}$ 997-11 3111 $\begin{array}{llll}997 & -8 & 5 & 164\end{array}$ $\begin{array}{llll}997 & -8 & 6 & 125\end{array}$ $\begin{array}{llll}997 & -6 & 5 & 61\end{array}$ DAY 25
$10020 \quad 4115$
$\begin{array}{llll}1001 & -1 & 5 & 164\end{array}$
$\begin{array}{llll}1002 & -2 & 3 & 120\end{array}$
$\begin{array}{llll}1002 & -2 & 3 & 59\end{array}$
$\begin{array}{llll}1002 & -2 & 3 & 67\end{array}$
$998 \quad 0 \quad 2 \quad 70$
$996 \quad 0 \quad 3 \quad 81$
$\begin{array}{llll}998 & -2 & 2 & 106\end{array}$

| P |  |  | DD |  |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 1013 | -10 | 5 | 84 | 1003 | -4 | 2 | 67 | 1002 | -8 | 5 | 111 |
| 1012 | -8 | 6 | 66 | 1002 | -3 | 2 | 49 | 1002 | -8 | 7 | 104 |
| 1011 | -8 | 3 | 45 | 1001 | -6 | 4 | 127 | 1006 | -7 | 4 | 130 |
| 1008 | -9 | 3 | 64 | 998 | -9 | 8 | 127 | 1007 | -9 | 5 | 112 |
| 1006 | -10 | 4 | 42 | 1001 | -10 | 6 | 97 | 1008 | -9 | 3 | 105 |
| 1006 | -8 | 2 | 40 | 1001 | -9 | 6 | 74 | 1008 | -9 | 6 | 119 |
| 1002 | -6 | 1 | 181 | 1002 | -9 | 5 | 47 | 1007 | -9 | 6 | 67 |
| 1001 | -5 | 2 | 81 | 1003 | -9 | 6 | 50 | 1007 | -9 | 6 | 49 |
|  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 991 | -7 | 6 | 109 | 987 | -2 | 3 | 14 | 985 | -4 | 3 | 116 |
| 993 | -6 | 7 | 142 | 986 | -1 | 3 | 12 | 985 | -5 | 6 | 123 |
| 992 | -7 | 9 | 132 | 985 | -4 | 8 | 154 | 986 | -7 | 3 | 126 |
| 991 | -7 | 3 | 154 | 985 | -6 | 5 | 54 | 987 | -7 | 4 | 133 |
| 987 | -7 | 4 | 26 | 985 | -6 | 4 | 49 | 986 | -7 | 3 | 157 |
| 986 | -6 | 4 | 29 | 981 | -6 | 2 | 151 | 991 | -6 | 2 | 189 |
| 986 | -6 | 4 | 111 | 981 | -6 | 1 | 70 | 990 | -6 | 5 | 143 |
| 985 | -5 | 6 | 25 | 985 | -5 | 2 | 113 | 992 | -5 | 6 | 115 |
|  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 996 | -5 | 3 | 15 | 992 | -1 |  | 307 | 1003 | -6 | 3 | 88 |
| 995 | -2 | 1 | 246 | 992 | -1 | 2 | 143 | 1003 | -5 | 6 | 142 |
| 992 | -3 | 1 | 115 | 991 | -1 |  | 139 | 1003 | -5 | 7 | 163 |
| 991 | -8 | 2 | 37 | 992 | -5 | 2 | 98 | 1001 | -7 | 3 | 136 |
| 990 | -5 | 1 | 316 | 996 | -6 | 2 | 70 | 1003 | -11 | 2 | 26 |
| 992 | -12 | 2 | 46 | 998 | -7 | 1 | 19 | 1002 | -7 | 2 | 33 |
| 992 | -5 | 2 | 26 | 997 | -8 | 5 | 142 | 1001 | -4 | 1 | 53 |
| 992 | 0 |  | 343 | 1002 | -6 | 2 | 12 | 998 | -3 | 0 | 0 |
|  | DAY |  |  |  |  | 27 |  |  |  | 28 |  |
| 997 | 0 | 2 | 26 | 990 | 2 |  | 360 | 996 | 1 | 0 | 0 |
| 996 | 1 | 1 | 19 | 991 | 1 | 5 | 140 | 996 | 0 | 7 | 181 |
| 991 | 4 | 0 | 0 | 991 | 3 |  | 303 | 997 | 0 | 3 | 101 |
| 990 | -2 | 2 | 8 | 992 | 0 |  | 140 | 998 | -1 | 1 | 97 |
| 992 | -5 | 1 | 53 | 992 | -1 | 2 | 12 | 998 | -2 | 2 | 8 |
| 990 | -4 | 1 | 60 | 993 | -2 | 1 | 133 | 997 | -3 | 2 | 42 |
| 987 | 1 | 1 | 80 | 991 | -1 |  | 348 | 997 | -1 | 2 | 347 |
| 990 | 1 | 2 | 210 | 992 | 2 | 3 | 185 | 996 | -1 | 2 | 279 |

## MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-5.3$ Std dev $=4.2$ MAX $=4.9$ at 520 GMT ON DAY 26 MIN $=-16.8$ at 1750 GMt ON DAY 8
* theta (K) * MEAN $=268.15$
* PRESSURE (MB) * MEAN $=996.7$ STD DEV $=5.8$ MAX $=1012.6$ AT 0 GMT ON DAY 5 MIN $=981.0$ at 1600 GMT ON DAY 13
* WINDS (M/S) * MEAN $=3.3$ STD DEV $=1.9$ RESULTANT $=1.9$ fROM 97 . CONSTANCY $=0.58$ MAX $=12.7$ FROM 202. AT 2350 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 4 & 12 & 14 & 14 & 12 & 13 & 10 & 7 & 5 & 1 & 1 & 1 & 1 & 1 & 2 & 2\end{array}$


* TEMPERATURE (C) * MEAN $=-3.1$ STD DEV $=2.6$ MAX $=3.5$ AT 1620 GMT ON DAY 13 MIN $=-10.4$ AT 450 GMT ON DAY 23
* THETA (K) * MEAN $=270.92$
* PRESSURE (MB) * MEAN $=988.6$ STD DEV $=7.1$ MAX $=1001.8$ AT 2310 GMT ON DAY 31 MIN $=973.8$ AT 550 GMT ON DAY 7
* WINDS (M/S) * MEAN $=5.0$ STD DEV $=3.7$ RESULTANT $=3.5$ FROM 188. CONSTANCY $=0.69$ MAX $=18.9$ FROM 185. AT 2220 GMT DAY 21 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.2 \%$ PRESSURE: $2.8 \% \quad$ WINDS: $3.2 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 12 & 5 & 1 & 0 & 0 & 0 & 1 & 5 & 43 & 20 & 2 & 0 & 1 & 2 & 2 & 4\end{array}$
$\begin{array}{lcrrr}\text { HR } & \text { PP } & \text { TT } & \text { VV } & \text { DD } \\ & & \text { DAY } & 1 & \\ 00 & 1002 & -5 & 2 & 17\end{array}$ 03
06
$091003-6 \quad 0 \quad 0$ 12
$\begin{array}{lllll}15 & 1003 & -5 & 3 & 9\end{array}$ 18
$\begin{array}{llll}21 & 1003 & -4 & 3 \\ 360\end{array}$ DAY 8
$00 \quad-1310198$
$\begin{array}{lllll}03 & 984 & -14 & 8 & 194\end{array}$
$\begin{array}{llllll}06 & 983 & -14 & 11 & 195\end{array}$
09 983-13 9188
$\begin{array}{llll}12 & 983-13 & 9 & 187\end{array}$
$\begin{array}{llll}15 & 983-12 & 9 & 180\end{array}$
$\begin{array}{llll}18 & 983 & -1211 & 191\end{array}$
$\begin{array}{llll}21 & 983-12 & 9 & 187\end{array}$ DAY 15
$\begin{array}{llll}00 & 994 & -10 & 7 \\ 177\end{array}$
$\begin{array}{llll}03 & 994 & -10 & 7 \\ 175\end{array}$

| 06 | 994 | -11 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}09 & 993 & -11 & 5 & 175\end{array}$
$\begin{array}{lllll}12 & 992 & -10 & 5 & 191\end{array}$
$\begin{array}{lllll}15 & 991 & -8 & 4 & 189\end{array}$
$\begin{array}{lllll}18 & 991 & -7 & 2 & 174\end{array}$
$\begin{array}{llll}21 & 990 & -9 & 216\end{array}$ DAY 22
$\begin{array}{llll}00 & 996 & -15 & 2174\end{array}$
$\begin{array}{lllll}03 & 996 & -16 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 997 & -16 & 3 \\ 310\end{array}$
$\begin{array}{llll}09 & 998 & -16 & 2316\end{array}$
$\begin{array}{lllll}12 & 998 & -14 & 4 & 302\end{array}$
$\begin{array}{llll}15 & 999-13 & 4 & 319\end{array}$
18
$\begin{array}{llll}21 & 999 & -14 & 5337\end{array}$

PP TT VV DD PP TTVV DD DAY 2
$\begin{array}{lll}1003 & -5 & 1232\end{array}$ $\begin{array}{llll}1004 & -6 & 0 & 0\end{array}$ $\begin{array}{lll}1004 & -6 & 2327\end{array}$ $\begin{array}{lll}1005 & -6 \quad 3 & 208\end{array}$ $\begin{array}{llll}1008 & -8 & 9 & 28\end{array}$ $\begin{array}{llll}1008 & -7 & 6 & 171\end{array}$ $\begin{array}{llll}1009 & -8 & 4 & 178\end{array}$ DAY 9

983-13 10192 984-14 9191 985-15 8191 985-14 6199 988-12 6189 989-11 6191 991-11 3229 DAY 16
990-11 3189 990-12 5178 $990-12 \quad 6 \quad 185$ 991-12 5177 $\begin{array}{lll}-12 & 6 & 189\end{array}$

994-10 $4 \quad 167$
995-11 6174 DAY 23
999-16 4333
999-17 4336
998-17 4345
998-17 6350
997-15 5357 996-13 $6 \quad 1$ 994-12 8360 $993-13 \quad 6360$

DAY 3
1009 -9 3229

1006-11 3299
1006-10 4307
$\begin{array}{llll}1005 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}1005 & -8 & 6 & 164\end{array}$
$\begin{array}{llll}1005 & -8 & 1 & 237\end{array}$
1004 -8 3312
DAY 10
992-14 3226
993-14 0
$\begin{array}{llll}994 & -14 & 0 & 0\end{array}$
995-15 2360
995-13 3331
996-12 2358
$\begin{array}{llll}996 & -9 & 2 & 61\end{array}$
996-11 2262 DAY 17
996-13 6178

997-14 3177

998-12 3171
998-11 3222
998-10 3192 DAY 24
992-14 7351
990-17 5350
$\begin{array}{llll}990 & -17 & 3 & 9\end{array}$
$\begin{array}{llll}990 & -18 & 2 & 12\end{array}$
991-14 1345
991-12 1151
991-12 0
992-15 1199

|  | TT | V D |
| :---: | :---: | :---: |
|  | DAY | 4 |
| 003 | -10 | 3338 |
| 000 | 13 | 6323 |
| 999 | 13 | 3194 |
| 000 | 10 | 3274 |
| 999 | -7 | 1178 |
| 1000 | -10 | 5191 |
| 1001 | -8 | 5180 |
| 1001 | -6 | 0 |
|  | DAY | 11 |
| 995 | -12 | 1310 |
| 994 | -13 | 2293 |
| 993 | -13 | 300 |
| 992 | -13 | 0 |
| 991 | -11 | 2184 |
| 991 | -10 | 18 |
| 991 | -9 | 3196 |
| 990 | -10 | 2178 |
|  | DAY | 18 |
| 998 | -15 | 4181 |
| 998 | -16 | 5187 |
| 998 | -17 | 6185 |
| 998 | 16 | 6194 |
| 998 | 15 | 6192 |
| 998 | 13 | 5191 |
| 999 | -12 | 19 |
| 999 | -13 | 22 |
|  | DAY | 25 |
| 993 | -17 | 2196 |
| 994 | -16 | 3195 |
| 995 | -16 | 4185 |
| 997 | -16 | 7196 |
| 999 | -17 | 8175 |
| 1000 | -18 | 9172 |
| 001 | -19 | 9 |
|  |  |  |


monthly summary

* TEMPERATURE ( $C$ ) * MEAN $=-12.6$ STD DEV $=4.3$ MAX $=-3.1$ at 1510 GMT ON DAY 13 MIN $=-24.9$ AT 500 GMT ON DAY 27
* THETA (K) * MEAN $=261.03$
* PRESSURE (MB) * MEAN $=994.4$ STD DEV $=6.3$ MAX $=1008.7$ AT 2020 GMT ON DAY 2 MIN $=973.9$ AT 900 GMT ON DAY 12
* WINDS (M/S) * MEAN $=4.4$ STD DEV $=2.8$ RESULTANT $=1.6$ FROM 202. CONSTANCY $=0.36$ MAX $=14.7$ FROM 15 . AT 1840 GMT DAY 7
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $6.2 \%$ PRESSURE: $7.1 \%$ WINDS: $6.2 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 14 & 2 & 1 & 1 & 0 & 0 & 0 & 5 & 37 & 13 & 6 & 1 & 1 & 4 & 6 & 11\end{array}$

* TEMPERATURE (C) * MEAN $=-15.2$ STD DEV $=7.2$ MAX $=6.5$ AT 630 GMT ON DAY 16 MIN $=-28.5$ AT 2310 GMT ON DAY 31
* THETA (K) * MEAN $=259.24$
* PRESSURE (MB) * MEAN $=983.1$ STD DEV $=8.5$ MAX $=996.1$ AT 1040 GMT ON DAY 15 MIN $=961.9$ AT 1100 GMT ON DAY 19 * WINDS (M/S) * MEAN $=6.0$ STD DEV $=4.7$ RESULTANT $=3.3$ FROM 194. CONSTANCY $=0.54$ MAX $=23.8$ FROM 184 . AT 2140 GMT DAY 1 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.0 \%$ PRESSURE: $2.0 \%$ WINDS: $4.0 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6\end{array}$
 PERCENT


HR PP TTVV DD DAY 1
$\begin{array}{lllll}00 & 994 & -29 & 5 & 192\end{array}$
$\begin{array}{lllll}03 & 994 & -28 & 3 & 237\end{array}$
$\begin{array}{lllll}06 & 994 & -29 & 3 & 343\end{array}$
$\begin{array}{lllll}09 & 993 & -28 & 2 & 14\end{array}$
$\begin{array}{lllll}12 & 995 & -26 & 0 & 0\end{array}$
$\begin{array}{llll}15 & 995 & 0 & 0\end{array}$
18 995-26 2340
$\begin{array}{lllll}21 & 996 & -27 & 0 & 0\end{array}$
DAY 8
$\begin{array}{llll}00 & 993 & -17 & 261\end{array}$
$\begin{array}{lllll}03 & 992 & -17 & 1 & 275\end{array}$
06 991-16
09 990-17
12 989-17
15 989-16
$\begin{array}{llll}18 & 989 & -16 & 0\end{array}$
$\begin{array}{llll}21 & 988 & -18 & 1348\end{array}$ DAY 15
$\begin{array}{llll}00 & 976 & -24 & 3 \\ 199\end{array}$
$\begin{array}{lllll}03 & 977 & -25 & 7 & 171\end{array}$
$\begin{array}{lllll}06 & 979 & -26 & 8 & 177\end{array}$
$\begin{array}{lllll}09 & 980 & -27 & 7 & 184\end{array}$
$\begin{array}{lllll}12 & 980 & -27 & 7 & 178\end{array}$
$\begin{array}{lllll}15 & 981 & -26 & 7 & 195\end{array}$
$\begin{array}{lllll}18 & 980 & -25 & 6 & 184\end{array}$
$\begin{array}{llll}21 & 979 & -25 & 5 \\ 184\end{array}$
DAY 22
001001 -20 6178
03 1000-20
06 999-18
09 998-18
12 998-16
15 998-17
$\begin{array}{lllll}18 & 998 & -23 & 10 & 167\end{array}$
$\begin{array}{llll}21 & 999 & -24 & 8 \\ 175\end{array}$ DAY 29
$\begin{array}{lllll}00 & 983 & -31 & 15 & 178\end{array}$
$\begin{array}{llllll}03 & 983 & -31 & 13 & 172\end{array}$
$\begin{array}{lllll}06 & 985 & -31 & 14 & 170\end{array}$
$\begin{array}{lllll}09 & 986 & -31 & 13 & 172\end{array}$
$\begin{array}{llll}12 & 987 & -30 & 16 \\ 165\end{array}$
$\begin{array}{lllll}15 & 988 & -29 & 19 & 167\end{array}$
$\begin{array}{lllll}18 & 989 & -29 & 24 & 180\end{array}$
$\begin{array}{ll}21 & 989 \\ -28 & 22175\end{array}$

PP TT VV DD PP TT VV DD DAY 2
996-27
995-27
$\begin{array}{llll}995 & -27 & 0 & 0\end{array}$
$\begin{array}{llll}996 & -28 & 5 & 192\end{array}$
$\begin{array}{llll}996 & -27 & 7 & 195\end{array}$
$\begin{array}{llll}997 & -26 & 8 & 195\end{array}$
$\begin{array}{llll}998 & -26 & 8 & 195\end{array}$
1000-28 8195
DAY 9
988-17 0 0
987-18 2196
986-17 3189
983-17 5184
983-18 5187
981-18 5184
978-18 4180
977-18 5185 DAY 16
979-24 5187
$\begin{array}{llll}978 & -24 & 2 & 181\end{array}$
978-23 0
978-23 2324
$\begin{array}{llll}979 & -22 & 2 & 7\end{array}$
979-20 0 0
$\begin{array}{llll}980 & -22 & 4 & 171\end{array}$
980-21 8180 DAY 23
999-25 8178 $\begin{array}{llll}998 & -25 & 8 & 171\end{array}$ 998-25 7168 998-25 6181 998-24 5163 997-24 5167 996-24 5172 996-24 4194 DAY 30
990-29 0 0 $\begin{array}{llll}991 & -29 & 0 & 0\end{array}$ 991-29 0 992-28 0 DAY 3
1002-29 7201
1004-28 5205
1006-27 3203
1007-27 3216
1009-26 2212
1009-23 1191
1012-22 0
1013-24 1298
DAY 10
973-18 5182
972-18 2258
971-19 4347
971 -18 7337
$\begin{array}{llll}975 & -21 & 5 & 168\end{array}$
$\begin{array}{lll}977 & -20 & 2165\end{array}$
979 -23 3171
$\begin{array}{llll}981 & -25 & 5 & 177\end{array}$ DAY 17
980-21 9178
$\begin{array}{llll}980 & -21 & 8170\end{array}$
$\begin{array}{lll}981 & -21 \quad 5177\end{array}$
$\begin{array}{llll}981 & -20 & 4 & 182\end{array}$
981-20 6164
$\begin{array}{llll}984 & -20 & 7170\end{array}$
985-21 6170 DAY 24
995-24 4194
994-24 6196
$\begin{array}{llll}994 & -24 & 6 & 188\end{array}$
$\begin{array}{llll}995 & -24 & 7 & 184\end{array}$
996-24 8180
$997-24 \quad 9182$
998-24 7184
1000-24 10189

993-27 0
$\begin{array}{llll}994 & -26 \quad 13170\end{array}$
$995-2611167$

$$
\begin{aligned}
& \text { TT VV DD } \\
& \text { DAY } 4 \\
& \text { 1013-24 } 1355 \\
& \text { 1012-24 } 2329 \\
& \text { 1012-24 } 3344 \\
& \text { 1011-23 } 5354 \\
& \text { 1011-22 } 6355 \\
& \begin{array}{lll}
1011 & -21 & 4354
\end{array} \\
& \text { 1010-21 } 7354 \\
& \text { DAY } 11 \\
& \text { 83-25 } 6192 \\
& 983-25 \quad 5182 \\
& \text { 983-26 } 4170 \\
& \text { 982-26 } 5188 \\
& \text { 979-24 } 8182 \\
& \begin{array}{llll}
978 & -24 & 317
\end{array} \\
& \text { DAY } 18 \\
& \text { 986-21 } 7178 \\
& \text { 987-21 } 7175 \\
& \text { 987-21 } 8181 \\
& \text { 987-21 } 7178 \\
& \text { 988-20 } 9171 \\
& \text { 988-20 } 10184 \\
& \text { 989-19 } 10182 \\
& \text { DAY } 25 \\
& \text { 1001-24 } 6170 \\
& \text { 1001-24 } 9181 \\
& 1000-27 \quad 7187 \\
& 1000-275198 \\
& \text { 000-28 } 6182 \\
& 999-334180 \\
& 999-32 \quad 5177
\end{aligned}
$$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-23.2$ Std dev $=4.3$ max $=-15.6$ at 1530 GMt on day 19 min $=-33.1$ at 1830 gMt on day 25
* THETA (K) * MEAN $=250.60$
* PRESSURE (MB) * MEAN $=990.7$ STD DEV $=10.6$ MAX $=1013.3$ AT 2350 GMT ON DAY 3 MIN $=970.8$ at 700 GMt ON DAY 10
* WINDS (M/S) * MEAN $=6.1 \mathrm{STD}$ DEV $=4.8$ RESULTANT $=4.8$ FROM 183. CONSTANCY $=0.79 \mathrm{MAX}=24.0$ FROM 180. AT 1800 GMT DAY 29
* MISSING 3-hourly observations * temperature: $1.2 \%$ PRESSURE: $0.8 \%$ WINDS: $5.4 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
7 & 0 & 0 & 0 & 0 & 0 & 0 & 8 & 53 & 14 & 3 & 2 & 1 & 0 & 2 & 9
\end{array}
$$



* TEMPERATURE (C) * MEAN $=-17.6$ STD DEV $=8.1$ MAX $=1.0$ AT 2130 GMT ON DAY 25 MIN $=-28.5$ AT 840 GMT ON DAY 5
* THETA (K) * MEAN $=256.24$
* PRESSURE (MB) * MEAN $=990.5$ STD DEV $=9.6$ MAX $=1011.1$ AT 1720 GMT ON DAY 27 MIN $=967.5$ AT 1440 GMT ON DAY 12
* WINDS (M/S) * MEAN $=6.6$ STD DEV $=4.4$ RESULTANT $=3.1$ FROM 224. CONSTANCY $=0.47$ MAX $=20.3$ FROM 167 . AT 2020 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: 0.0 \% WINDS: $35.9 \%$
$\left.\begin{array}{lrrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 & 0\end{array}\right)$
 PERCENT

$$
\begin{array}{lllllllllllllll}
5 & 1 & 1 & 1 & 1 & 1 & 1 & 4 & 32 & 10 & 6 & 7 & 5 & 10 & 8
\end{array}
$$

JUN 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 987 & -2 & 11 & 229\end{array}$
$\begin{array}{lllll}03 & 988 & -6 & 5 & 136\end{array}$
$\begin{array}{lllll}06 & 989 & -7 & 3 & 112\end{array}$
$\begin{array}{lllll}09 & 991 & -10 & 7 & 122\end{array}$
$\begin{array}{llll}12 & -11 & 2 & 60\end{array}$
$\begin{array}{lllll}15 & 998 & -12 & 4 & 88\end{array}$
$\begin{array}{lllll}18 & 1001 & -13 & 3 & 106\end{array}$
21 1002-14 $4 \quad 59$ DAY 8
001001 -15 7307
$\begin{array}{lllll}03 & 999 & -8 & 3 & 296\end{array}$
$\begin{array}{lllll}06 & 995 & -7 & 4 & 307\end{array}$
$\begin{array}{lllll}09 & 993 & -6 & 4 & 309\end{array}$
$\begin{array}{lllll}12 & 990 & -5 & 4 & 208\end{array}$
$\begin{array}{llll}15 & 989 & -3 & 2\end{array} 239$
$\begin{array}{lllll}18 & 990 & -5 & 6 & 206\end{array}$
$\begin{array}{llll}21 & 994 & -14 & 9\end{array}$ DAY 15
$\begin{array}{lllll}00 & 994 & -7 & 16 & 271\end{array}$
$\begin{array}{lllll}03 & 991 & -8 & 19 & 265\end{array}$
$\begin{array}{llllll}06 & 993 & -8 & 16 & 277\end{array}$
$\begin{array}{llllll}09 & 994 & -9 & 14 & 253\end{array}$
$\begin{array}{lllll}12 & 994 & -8 & 5 & 94\end{array}$
$\begin{array}{llll}15 & 997 & -10 & 5 \\ 286\end{array}$
$\begin{array}{llll}18 & 994 & -10 & 8 \\ 250\end{array}$
$\begin{array}{llll}21 & 994 & -15 \quad 4143\end{array}$
DAY 22
001002 -24 1291
$\begin{array}{lllll}03 & 1000 & -25 & 3 & 330\end{array}$
$061000-26 \quad 1338$
$\begin{array}{lllll}09 & 999 & -25 & 3 & 226\end{array}$
$\begin{array}{lllll}12 & 998 & -26 & 5 & 189\end{array}$
$\begin{array}{lllll}15 & 999 & -27 & 4 & 233\end{array}$
$\begin{array}{lllll}18 & 999 & -27 & 6 & 196\end{array}$
$21 \quad 999-26 \quad 4215$
DAY 29
001009 -31 2187
$\begin{array}{llllll}03 & 1008 & -31 & 3 & 194\end{array}$
06 1008-31 3195
09 1008-31 4198
$\begin{array}{lllll}12 & 1007 & -31 & 4 & 178\end{array}$
$\begin{array}{lllll}15 & 1007 & -31 & 170\end{array}$
$\begin{array}{llll}18 & 1006 & -32 & 5 \\ 174\end{array}$
21 1007-32 6174

r


| 1002 | -25 | 9 |
| :--- | :--- | :--- |

$\begin{array}{llll}1001 & -26 & 8 & 161\end{array}$ 1001-27-9172 1001-28 6175 1002-29 7181 1002-29 9188 1003-28 8198 1005-29 5216 DAY 11
1003-26 4226 1002-25 3331 1003-23 3298 1002-21 3299 1001-20 4354 999-16 2333 999-19 0 999-12 1167 DAY 18
991-21 4330 $\begin{array}{lll}990 & -21 & 5338\end{array}$ 989-21 2336 $\begin{array}{llll}991 & -25 & 9 & 182\end{array}$ 993-27 11172 995-29 11170 997-30 9180 $\begin{array}{llll}998 & -30 & 5184\end{array}$ DAY 25
1010-29 2295
1012-28 2289
1013-27 2293
1013-28 3305
1012-29 3329
1011-30 5340
$\begin{array}{lll}1010 & -29 & 6341\end{array}$
1010-29 6352

PP TT VV DD
DAY 5
PP TT VV DD 1006-28 3234 $\begin{array}{lll}1007-28 & 3 & 198\end{array}$ 1008-28 4212 1008-28 3202 1008-27-205 1008-26 1185 1008-26 1246
1008-26 3209 DAY 12
999-15 $2 \quad 57$
1001-16 2175
1002-20 3288
1002-18 1139
1001-18 2324
1000-20 5337
$\begin{array}{llll}998 & -9 & 4 & 271\end{array}$
$\begin{array}{llll}998 & -9 & 0 & 0\end{array}$ DAY 19
998-32 4202
$\begin{array}{llll}998 & -31 & 4 & 212\end{array}$
$\begin{array}{llll}998 & -30 & 3 & 240\end{array}$
$\begin{array}{llll}998 & -30 & 282\end{array}$
997-28 1300
$\begin{array}{llll}998 & -31 & 4 & 184\end{array}$
$\begin{array}{llll}998 & -31 & 1 & 171\end{array}$
$999-30 \quad 0.0$ DAY 26
1011-28 5331
1011 -27 4333
1011-26 3319
1013-25 0 0
1013-27 4212
1013-25 3194
1012-26 5201
$1013-26 \quad 5199$

PP TT VV DD DAY 7 1015-27 5201 1014-27 4209 1013-26 3237 1012-25 2284 1011-25 6289 1009-25 6319 1007-23 4271 1005-23 4302 DAY 14
$\begin{array}{lll}1001 & -3 & 4216\end{array}$ $\begin{array}{llll}1002 & -2 & 0 & 0\end{array}$ $\begin{array}{llll}1004 & -5 & 1 & 78\end{array}$ $\begin{array}{llll}1003 & -7 & 3 & 42\end{array}$ $\begin{array}{llll}1001 & -1 & 9 & 264\end{array}$ $996-113282$ $\begin{array}{llll}993 & -2 & 6330\end{array}$ $992 \quad-3 \quad 20246$ DAY 21
1002-28 3307 1003-28 1326 1004-28 0 1006-30 4196 1007-28 2258 1006-27 3275 1005-25 2285 1004-24 0 DAY 28
1009-30 3174 $\begin{array}{llll}1009 & -30 & 3178\end{array}$ $\begin{array}{llll}1009 & -31 & 3189\end{array}$ 1010-30 3172 1010-30 2177 1010-31 1191 1009-31 1198

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-21.5$ Std dev $=9.4$ max $=1.9$ at 1420 GMT ON dAY 13 min $=-35.0$ at 1740 GMt on day 30
* theta (K) * MEAN $=251.55$
* PRESSURE (MB) * MEAN $=1001.3$ STD DEV $=6.8$ MAX $=1014.4$ at 2200 GMT ON DAY 6 MIN $=983.3$ at 110 GMt ON DAY 10
* WINDS (M/S) * MEAN $=4.7 \mathrm{STD}$ DEV $=3.3$ RESULTANT $=2.0$ fROM 229. CONSTANCY $=0.42 \mathrm{MAX}=23.3$ FROM 272. AT 350 GMT DAY 15
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $1.2 \%$ WINDS: $0.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $\quad$ N $\quad$ NNE $\quad$ NE
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 4 & 0 & 1 & 2 & 1 & 1 & 2 & 2 & 21 & 16 & 6 & 3 & 7 & 9 & 8 & 14\end{array}$

JUL 97


* TEMPERATURE (C) * MEAN $=-26.0$ STD DEV $=9.6$ MAX $=0.5$ AT 1710 GMT ON DAY 7 MIN $=-38.9$ AT 1100 GMT ON DAY 30
* THETA (K) * MEAN $=248.00$
* PRESSURE (MB) * MEAN $=988.8$ STD DEV $=12.4$ MAX $=1010.6$ AT 2350 GMT ON DAY 6 MIN $=958.1$ AT 210 GMT ON DAY 31
* WINDS (M/S) * MEAN $=4.3$ STD DEV $=3.3$ RESULTANT $=2.4$ FROM 205. CONSTANCY $=0.56$ MAX $=19.6$ FROM 184 . AT 2020 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.4 \%$ PRESSURE: $4.4 \%$ UINDS: $4.4 \%$

 PERCENT

AUG 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 981 & -35 & 16 & 170\end{array}$
$\begin{array}{llllll}03 & 983 & -35 & 15 & 174\end{array}$
$\begin{array}{lllll}06 & 985 & -34 & 19 & 175\end{array}$
$\begin{array}{lllllllllllllll}09 & 988 & -33 & 20 & 182\end{array}$
$\begin{array}{llllll}12 & 991 & -32 & 20 & 182\end{array}$
$\begin{array}{lllll}15 & 994 & -31 & 24 & 177\end{array}$
$\begin{array}{lllll}18 & 998 & -30 & 20 & 170\end{array}$
21 1001-30 16172 DAY 8
$\begin{array}{lllll}00 & 997 & -23 & 10 & 172\end{array}$
$\begin{array}{lllll}03 & 999 & -23 & 1 & 97\end{array}$
$\begin{array}{llll}06 & 999 & -22 & 0\end{array}$
$\begin{array}{lllll}09 & 999 & -22 & 2 & 81\end{array}$
$\begin{array}{lllll}12 & 998 & -23 & 3 & 181\end{array}$
$\begin{array}{lllll}15 & 997 & -25 & 4 & 198\end{array}$
$\begin{array}{lllll}18 & 997 & -24 & 4 & 192\end{array}$
$\begin{array}{llll}21 & 993-24 & 3185\end{array}$ DAY 15
$001000-245192$
03 1000-23 5188 $\begin{array}{lllll}06 & 999 & -23 & 7 & 182\end{array}$ $\begin{array}{lllll}09 & 999 & -23 & 7 & 177\end{array}$ $\begin{array}{lllll}12 & 998 & -23 & 5 & 187\end{array}$ 15

18 997-23
21 996-22
DAY 22
$\begin{array}{lllll}00 & 991 & -36 & 3 & 199\end{array}$
$\begin{array}{lllll}03 & 991 & -36 & 3 & 195\end{array}$
$\begin{array}{lllll}06 & 990 & -37 & 3 & 189\end{array}$
$\begin{array}{lllll}09 & 988 & -35 & 3 & 213\end{array}$
$\begin{array}{llll}12 & 986 & -34 & 216\end{array}$
$\begin{array}{lllll}15 & 983 & -33 & 222\end{array}$
$18 \quad 979-32 \quad 4222$
$\begin{array}{llll}21 & 974 & -31 & 8 \\ 208\end{array}$ DAY 29
00 996-25
$03 \quad 995-24$
06 992-23
09 989-23
$\begin{array}{ll}12 & 987-22\end{array}$
15 988-23
18 988-26
21 988-27
$\begin{array}{lr}\text { PP } & \text { TT VV } \\ \text { DAY } & 2\end{array}$
1004-30 12182
1005-32
1004-31
1001-30
998-28
994-31
991-31
989-27
DAY 9
993-23 2219
990 -22 0
988-22 1271
987-21 4333

989-20 6196
$989-2216175$
992 -23 12177 DAY 16
995-22
994-23
993-23
992-23
993-24
993-23
991 -23
992-24
DAY 23
970-29 12194
966-27 12192
$963-2513189$
$961-2414199$
$960-2513195$
$960-2410215$
959 -20 14199
957 -20 14199 DAY 30
988-27
988-27
987-26
984-26
$984-2515178$
983-25 14177
982-24 17177
979 -22 16177

PP TT VV DD DAY 3
987-26
986-23
984-25
982-25
980-25
977-24
975-25
973-24
DAY 10
$993-2411180$ $\begin{array}{llll}993 & -25 & 9 & 172\end{array}$ 992 -25 10165 $\begin{array}{llll}992 & -25 & 7 & 178\end{array}$ $\begin{array}{lll}991 & -25 & 9 \\ 175\end{array}$
$990-26 \quad 8163$ 990 -26 9171 DAY 17
991-24
991-24
990-24
989-24
989-25
$\begin{array}{llll}990 & -24 & 7196\end{array}$
$\begin{array}{llll}990 & -25 & 8 & 199\end{array}$
$\begin{array}{lll}992 & -25 \quad 6 \quad 189\end{array}$ DAY 24
956-19 15220
953-18 16191
954-17 18192
953-1715 185
955-18 22191
958 -20 16189
959-20 28188
961 -20 22175 DAY 31
981-20 14174
981-19 17175
981-19 15175
982-19 14168
$983-2020171$
$985-2020174$
987-20 21178

## DAY 4

971-23
970-14
970-15
970-17
973-20
978-22
980-23
981-23

## DAY 11

990 -26 8182
991-27 9184
991 -26 12181
991-27 11172
990 -27 11178
990-27 11177
991 -28 11184
990 -28 9182
DAY 18
$\begin{array}{llll}994 & -25 & 8 & 181\end{array}$
$\begin{array}{llll}995 & -25 & 7184\end{array}$
$997-25 \quad 7184$
$\begin{array}{llll}998 & -25 & 6 & 175\end{array}$
$999-25 \quad 7182$
1000-25 5177
999-25 4158
999-26 0
DAY 25
964-21 22178
$\begin{array}{llll}966 & -23 & 20 & 187\end{array}$
968-26 19178
969-24 15180
972 -24 20168
974 -25 13184
978 -26 10196
$979-2813178$

PP TT VV DD DAY 5
980-21
977-20
976-17
972-15 $\quad 8 \quad 310$
968-16 5312
965-15 13251
972-20 11161
980-25 11174
DAY 12
991-28 9174
990 -28 8180
$\begin{array}{llll}991 & -27 & 6 & 184\end{array}$
$990-27 \quad 5208$
990-27 4209
$\begin{array}{llll}990 & -27 & 4 & 209\end{array}$
$\begin{array}{llll}990 & -26 & 4 & 194\end{array}$
990 -25 4195
DAY 19
998-25 3300
995-25
993-26
990-26
988-26
987-27
987-27
986-29
DAY 26
981-29 10177
982-29
982-30
981-29
980-28
980-27
981-27
982-28

PP TT WV DD DAY 6
985-28 5139
987-29 6192
987-28 00
$\begin{array}{llll}984 & -25 & 6 & 12\end{array}$
$981-2211348$
978 -20 9348
976-15 $4 \quad 29$
977-10 0 DAY 13
990 -25 4201
991-25 3202
991-25 3203
$993-264192$
994-25 4199
995-26 5198
996-25 5196
997 -25 6177
DAY 20
985-30
983-30
982-31
981-31
979-32
$\begin{array}{llll}979 & -31 & 10 & 182\end{array}$
$\begin{array}{llll}979 & -30 & 13188\end{array}$
980-29 16182
DAY 27
982-29
983-29
984-30
983-26
984-22 7343
984-18
983-23
981-21

PP TT WV DD DAY 7
$\begin{array}{llll}979 & -7 & 11 & 285\end{array}$
$\begin{array}{llll}979 & -6 & 5 & 333\end{array}$
$977-415305$
$979-311253$
$\begin{array}{llll}977 & -3 & 18 & 278\end{array}$
$\begin{array}{llll}982 & -4 & 9 & 298\end{array}$
$\begin{array}{lll}986 & -4 & 7 \\ 324\end{array}$
992-16 12147
DAY 14
$\begin{array}{llll}998 & -25 & 8 & 184\end{array}$ 999-25 7174
$\begin{array}{llll}1000 & -26 & 8175\end{array}$
$1000-26 \quad 9182$
1000-26 8191

1000-25 6189 1000-24 7194

DAY 21
982-29 10174 $\begin{array}{llll}984 & -30 & 7182\end{array}$
$\begin{array}{llll}986 & -31 & 7 & 195\end{array}$
$\begin{array}{llll}987 & -32 & 6 & 181\end{array}$
$\begin{array}{llll}988 & -33 & 5 & 184\end{array}$
$\begin{array}{llll}989 & -33 & 4 & 195\end{array}$
$\begin{array}{llll}990 & -33 & 5 & 192\end{array}$
991 -35 4189
DAY 28
980-17
979-17
978-17
979-15
985-17 10185
990-18 11188
994 -23 9181
996-24 6170

* temperature ( $C$ ) * mean $=-24.3$ Std dev $=5.7$ max $=-0.6$ at 730 GMT ON day 7 min $=-36.8$ at 400 GMt ON DAY 22
* THETA (K) * MEAN $=249.95$
* PRESSURE (MB) * MEAN $=985.4$ STD DEV $=10.7$ MAX $=1004.8$ AT 110 GMT ON DAY 2 MIN $=952.3$ at 610 GMT ON DAY 24
* WINDS (M/S) * MEAN $=9.6$ STD DEV $=5.7$ RESULTANT $=8.0$ FROM 186. CONSTANCY $=0.84$ MAX $=30.1$ FROM 189. AT 1920 GMT DAY 24 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $1.6 \%$ WINDS: $35.1 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\begin{array}{lllllllllllllll}6 & 11 & 14 & 16 & 11 & 11 & 7 & 7 & 6 & 4 & 6 & 1 & 0 & 0 \\ \text { NNE } & \text { NE } & \text { ENE } & E & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr} \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 1 & 0 & 0 & 1 & 0 & 1 & 4 & 56 & 22 & 4 & 1 & 1 & 2 & 3 & 3\end{array}$


| PP |  |  | DD | PP | TT |  | DD | PP |  | VV | DD | PP | it VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | day 7 |  |
| 990 | -28 |  |  | 989 | -26 |  |  | 994 | -34 | 13 | 172 | 1000 | -35 |  |
| 989 | -28 |  |  | 990 | -25 |  |  | 994 | -34 | 15 | 171 | 1000 | -34 |  |
| 988 | -29 |  |  | 991 | -25 |  |  | 995 | -34 | 9 | 175 | 1000 | -35 |  |
| 988 | -28 |  |  | 992 | -27 |  |  | 995 | -35 | 13 | 165 | 1001 | -34 |  |
| 988 | -28 |  |  | 993 | -29 |  |  | 996 | -36 | 10 | 178 | 1001 | -31 |  |
| 988 | -28 |  |  | 994 | -30 |  |  | 997 | -35 | 11 | 187 | 1001 | -31 |  |
| 988 | -25 |  |  | 994 | -32 |  |  | 998 | -35 | 8 | 189 | 1001 | -30 |  |
| 987 | -28 |  |  | 994 | -33 |  |  | 999 | -35 | 8 | 185 | 1000 | -32 |  |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY 14 |  |
| 969 | -30 | 20 | 181 | 979 | -27 | 0 | 0 | 986 | -26 | 0 | 0 | 976 | -27 |  |
| 972 | -30 | 0 | 0 | 978 | -27 | 0 | 0 | 987 | -25 |  |  | 976 | -28 |  |
| 974 | -31 | 0 | 0 | 979 | -27 | 0 | 0 | 987 | -25 |  |  | 975 | -29 |  |
| 975 | -30 | 0 | 0 | 980 | -27 | 0 | 0 | 986 | -26 |  |  | 973 | -29 |  |
| 977 | -30 | 0 | 0 | 981 | -27 | 0 | 0 | 984 | -24 |  |  | 972 | -29 |  |
| 976 | -29 | 0 | 0 | 981 | -26 | 0 | 0 | 981 | -24 |  |  | 972 | -29 |  |
| 977 | -28 | 0 | 0 | 982 | -25 | 0 | 0 | 979 | -23 |  |  | 973 | -30 |  |
| 977 | -27 | 0 | 0 | 985 | -26 | 0 | 0 | 977 | -27 |  |  | 974 | -33 |  |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY 21 |  |
| 987 | -31 |  |  | 988 | -22 |  |  | 997 | -25 |  |  | 997 | -23 |  |
| 986 | -31 |  |  | 989 | -22 |  |  | 995 | -26 |  |  | 999 | -23 |  |
| 987 | -30 |  |  | 990 | -25 |  |  | 992 | -21 |  |  | 1001 | -25 |  |
| 986 | -29 |  |  | 991 | -27 |  |  | 990 | -15 |  |  | 1002 | -23 |  |
| 986 | -27 |  |  | 992 | -26 |  |  | 990 | -12 |  |  | 1004 | -19 |  |
| 986 | -23 |  |  | 993 | -23 |  |  | 990 | -11 |  |  | 1004 | -16 |  |
| 986 | -20 |  |  | 995 | -24 |  |  |  | -16 |  |  | 1005 | -17 |  |
| 987 | -22 |  |  | 996 | -25 |  |  | 994 | -20 |  |  | 1006 | -18 |  |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY 28 |  |
| 1007 | -22 |  |  | 997 | -17 |  |  | 986 | -4 |  |  | 994 | -24 |  |
| 1006 | -22 |  |  | 996 | -17 |  |  | 985 | -2 |  |  | 993 | -25 |  |
| 1004 | -20 |  |  | 994 | -17 |  |  | 985 | -1 |  |  | 993 | -26 |  |
| 1003 | -22 |  |  | 993 | -19 |  |  | 987 | -12 |  |  | 992 | -26 |  |
| 1002 | -20 |  |  | 993 | -17 |  |  | 990 | -15 |  |  | 992 | -25 |  |
| 1000 | -16 |  |  | 991 | $-13$ |  |  | 992 | -17 |  |  | 993 | -25 |  |
| 999 | -16 |  |  | 988 | -7 |  |  | 994 | -20 |  |  | 993 | -24 |  |
| 998 | -15 |  |  | 987 | -3 |  |  | 995 | -23 |  |  | 995 | -24 |  |

* TEMPERATURE (C) * MEAN $=-24.7$ STD DEV $=6.7$ MAX $=1.4$ AT 2140 GMT ON DAY 30 MIN $=-36.1$ AT 1000 GMT ON DAY 6
* THETA (K) * MEAN $=249.03$
* PRESSURE (MB) * MEAN $=992.1$ STD DEV $=11.9$ MAX $=1016.2$ at 1800 GMT ON DAY 22 MIN $=961.1$ at 1130 GMT ON DAY 10
 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.4 \%$ WINDS: $82.9 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-19.0$ STD DEV $=4.7$ MAX $=0.8$ AT 200 GMT ON DAY 1 MIN $=-28.2$ AT 810 GMT ON DAY 12
* THETA (K) * MEAN $=254.80$
* PRESSURE (MB) * MEAN $=991.4 \mathrm{STD} \mathrm{DEV}=9.1 \mathrm{MAX}=1009.4$ AT 1140 GMT ON DAY 2 MIN $=974.7$ AT 1900 GMT ON DAY 25
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.4 \%$ WINDS: $94.8 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-10.5$ STD DEV $=5.4$ MAX $=1.9$ AT 1200 GMT ON DAY 25 MIN $=-24.2$ AT 450 GMT ON DAY 4
* THETA (K) * MEAN $=262.91$
* PRESSURE (MB) * MEAN $=997.9$ STD DEV $=7.6$ MAX $=1010.4$ AT 420 GMT ON DAY 23 MIN $=982.4$ AT 250 GMT ON DAY 6
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $2.9 \%$ WINDS: $81.7 \%$
 PERCENT:
$\begin{array}{rrrrrrrrrrrr} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ E & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
$\begin{array}{lrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |
| 00 | 1001 | -3 | 1 | 25 | 1004 | -5 | 3 | 192 | 1013 | -3 | 3 | 167 | 1011 | -3 | 1 | 177 | 1008 | -2 | 0 | 0 |  |  |  |  | 1001 | -3 | 3345 |
| 03 | 1001 | -5 | 3 | 23 | 1005 | -5 | 0 | 0 | 1013 | -4 | 3 | 172 | 1010 | -5 | 1 | 189 | 1008 | -3 | 2 | 106 |  |  |  |  | 1001 | -5 | 3310 |
| 06 | 1000 | -5 | 4 | 8 | 1005 | -5 | 3 | 12 | 1014 | -3 | 1 | 184 |  |  |  |  |  |  |  |  |  |  |  |  | 1000 | -5 | 3319 |
| 09 | 998 | -6 | 6 | 350 | 1006 | -5 | 2 | 18 | 1014 | 1 | 0 | 0 | 1009 | 2 | 3 | 175 |  |  |  |  |  |  |  |  | 1000 | -4 | 2310 |
| 12 | 997 | -3 | 9 | 333 | 1007 | 1 | 0 | 0 | 1013 | 2 | 0 | 0 | 1010 | -1 | 8 | 177 |  |  |  |  |  |  |  |  | 999 | -2 | 2338 |
| 15 | 997 | 1 | 9 | 309 | 1008 | 2 | 2 | 98 | 1012 |  | 1 | 122 | 1010 | 1 | 6 | 185 |  |  |  |  | 1000 | 0 | 3 | 15 | 999 | -1 | 3348 |
| 18 | 999 | 3 | 5 | 291 | 1009 | 2 | 0 | 0 | 1012 | 2 | 1 | 150 | 1009 | 1 | 5 | 142 | 1003 | -1 | 5 | 350 | 1000 | 1 | 3 | 341 | 998 | -1 | 34 |
| 21 | 1002 | -3 | 3 | 137 | 1011 | 2 | 3 | 167 | 1012 | 0 | 0 | 0 | 1009 | -1 | 4 | 142 | 1002 | -2 | 7 | 354 | 1000 | 0 | 2 | 11 | 998 | -2 | 39 |
|  |  | DAY | 8 | - |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |
| 00 | 998 | -4 | 2 | 1 | 994 | -4 | 3 | 340 | 993 | -1 | 2 | 350 | 996 | -2 | 4 | 175 | 995 | -3 | 1 | 108 | 988 | -3 | 4 | 4 | 985 | -2 | 4156 |
| 03 | 997 | -5 | 3 | 343 |  |  |  |  | 993 | -2 | 4 | 351 | 996 | -2 | 4 | 158 | 995 | -4 | 2 | 178 | 987 | -3 | 4 | 1 | 986 | -3 | 4172 |
| 06 | 997 | -5 | 3 | 355 | 994 | -5 | 3 | 319 | 993 | -3 | 3 | 355 | 996 | -3 | 3 | 144 | 994 | -3 | 0 | 0 |  |  |  |  | 986 | -3 | 6184 |
| 09 | 997 | -4 | 2 | 4 | 994 | -4 | 2 | 319 | 993 | -2 | 3 | 8 | 996 | -2 | 2 | 153 | 993 | -1 | 0 | 0 |  |  |  |  |  |  |  |
| 12 | 996 | -2 | 2 | 345 | 994 |  | 0 | 0 | 993 | -1 | 3 | 7 | 996 | 1 | 1 | 178 | 992 | 0 | 4 | 340 | 985 | 1 | 1 | 323 |  |  |  |
| 15 | 995 | -3 | 3 | 347 | 993 | 2 | 2 | 285 | 993 | 1 | 4 | 5 | 996 | -2 | 4 | 129 | 991 | 0 | 4 | 354 | 985 |  | 0 | 0 |  |  |  |
| 18 | 995 | 1 | 2 | 2 | 993 |  | 0 | 0 | 994 | 3 | 2 | 355 | 996 | -1 | 3 | 163 | 990 | -1 | 4 | 4 | 985 |  | 0 | 0 | 992 | -1 | 8150 |
| 21 | 995 | -2 | 2 | 344 | 993 | 2 | 1 | 307 | 995 | 0 | 0 | 0 | 995 | -1 | 1 | 123 | 989 | -2 | 4 | 15 | 985 | 0 | 2 | 178 | 994 | -2 | 6172 |
|  |  | DAY | 15 |  |  |  | 16 |  |  | DAY | 17 |  |  |  | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |
| 00 | 995 | -5 | 9 | 170 | 995 | -4 | 5 | 15 | 993 | -5 | 8 | 178 | 993 | -3 | 1 | 71 |  |  |  |  | 984 | -5 | 2 | 350 | 988 | -9 | 13184 |
| 03 |  |  |  |  | 994 | -5 | 8 | 4 |  |  |  |  | 993 | -4 | 1 | 71 |  |  |  |  | 985 | -3 | 0 | 0 | 988 | -9 | 13188 |
| 06 | 997 | -7 | 9 | 189 | 993 | -4 | 7 | 1 | 993 | -6 | 5 | 208 |  |  |  |  |  |  |  |  | 984 | -4 | 3 | 330 | 989 | -10 | 14188 |
| 09 | 998 | -6 | 6 | 208 | 992 | -4 | 5 | 291 | 993 | -6 | 7 | 189 |  |  |  |  |  |  |  |  | 985 | -1 | 0 | 0 | 989 | -10 | 13202 |
| 12 | 999 | -4 | 7 | 187 | 991 | -2 | 5 | 351 | 993 | -3 | 4 | 171 | 993 | -2 | 1 | 81 | 987 | -4 | 5 | 201 | 985 | -3 | 4 | 201 | 990 | -9 | 14192 |
| 15 | 998 | -2 | 3 | 171 | 991 | -1 | 5 | 360 | 993 | 0 | 2 | 171 | 993 | -2 | 2 | 82 | 986 | 1 | 1 | 142 | 987 | -3 | 8 | 182 | 991 | -8 | 00 |
| 18 | 998 | 2 | 2 | 352 | 991 | 2 | 0 | 0 | 993 | 1 | 1 | 74 | 992 | -3 | 2 | 97 | 985 | 0 | 1 | 15 | 987 | -5 | 9 | 189 | 993 | -8 | 00 |
| 21 | 997 | -1 | 3 | 1 | 992 | -2 | 8 | 165 | 993 | -1 | 1 | 82 | 992 | -3 | 3 | 137 | 985 | -1 | 1. | 327 | 988 | -6 | 11 | 189 | 994 | 8 | 12191 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |
| 00 | 995 | -7 | 10 | 187 | 998 | -6 | 5 | 182 | 997 | -6 | 8 | 192 | 993 | -3 | 3 | 4 | 995 | -2 | 1 | 168 | 1002 | -3 | 4 | 345 | 1005 | -4 | 4202 |
| 03 | 996 | -7 | 4 | 195 | 997 | -8 | 5 | 208 | 997 | -6 | 6 | 191 | 993 | -6 | 3 | 347 | 996 | -6 | 3 | 203 | 1002 | -5 | 3 | 292 | 1005 | -5 | 4202 |
| 06 | 997 | -8 | 14 | 182 | 997 | -8 | 6 | 198 | 996 | -6 | 3 | 246 | 992 | -5 | 2 | 189 | 997 | -4 | 0 | 0 | 1003 | -6 | 4 | 336 | 1004 | -5 | 4212 |
| 09 | 998 | -8 | 16 | 181 | 997 | -7 | 3 | 219 | 996 | -3 | 2 | 246 | 992 | -4 | 3 | 199 | 998 | -3 | 1 | 248 | 1003 | -3 | 1 | 347 | 1005 | -3 | 3225 |
| 12 | 998 | -7 | 10 | 196 | 997 | -6 | 7 | 189 | 996 | 1 | 2 | 295 | 993 | -3 | 3 | 181 | 999 | 2 | 1 | 303 | 1004 | 1 | 0 | 0 | 1005 | 0 | 2237 |
| 15 | 998 | -5 | 8 | 185 | 996 | -6 | 11 | 189 | 995 | 1 | 1 | 327 | 993 | -1 | 5 | 172 | 1000 | 0 | 2 | 29 |  |  |  |  | 1004 | 1 | 2160 |
| 18 | 998 | -5 | 7 | 170 | 996 | -5 | 14 | 194 | 995 | 0 | 3 | 2 | 993 | -1 | 3 | 130 | 1001 | 1 | 3 | 347 | 1005 | -1 | 3 | 212 | 1005 | 3 | 00 |
| 21 | 998 | -4 | 5 | 174 | 997 | -6 | 9 | 187 | 994 | 0 | 3 | 352 | 994 | -2 | 6 | 189 | 1002 | 1 | 3 | 340 | 1005 | -3 | 4 | 198 | 1004 |  | 00 |
|  |  |  | 29 |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 1004 | -3 | 3 | 281 | 1000 | -3 | 4 | 327 | 998 | -1 | 7 | 230 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 1004 | -4 | 3 | 279 | 999 | -2 | 4 | 261 | 998 | -4 | 6 | 215 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 1003 | -5 | 4 | 322 | 999 | 1 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 1003 | -3 | 2 | 330 | 999 | 1 | 2 | 307 | 997 |  | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  | , |  |  |
| 12 | 1003 | -1 | 2 | 344 | 998 | 4 | 1 | 254 | 996 |  | 1 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 1002 | -2 | 3 | 11 | 998 | 2 | 3 | 236 | 994 | 1 | 3 | 345 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 1001 | -2 | 5 | 344 |  |  |  |  | 993 | 2 | 1 | 46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 1001 | -1 |  | 330 | 998 | 1 |  | 208 | 992 | -1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-2.6$ STD DEV $=2.8 \mathrm{MAX}=6.5$ AT 1300 GMT ON DAY 30 MIN $=-10.0$ AT 900 GMT ON DAY 21
* THETA (K) * MEAN $=270.83$
* PRESSURE (MB) * MEAN $=997.0$ STD DEV $=6.6$ MAX $=1013.8$ AT 440 GMT ON DAY 3 MIN $=984.3$ AT 420 GMT ON DAY 20
* WINDS (M/S) * MEAN $=3.7$ STD DEV $=3.2$ RESULTANT $=1.2$ FROM 203. CONSTANCY $=0.32$ MAX $=16.9$ FROM 188 . AT 350 GMT DAY 21
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $14.1 \%$ PRESSURE: $10.9 \%$ WINDS: $10.9 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$

$\begin{array}{llllllllllllllllll} & 17 & 5 & 1 & 2 & 3 & 2 & 4 & 6 & 23 & 11 & 3 & 3 & 2 & 3 & 5 & 13\end{array}$


* TEMPERATURE (C) * MEAN $=-13.5$ STD DEV $=3.9$ MAX $=-6.6$ AT 2340 GMT ON DAY 20 MIN $=-28.9$ AT 1040 GMT ON DAY 29
* THETA (K) * MEAN $=274.51$
* PRESSURE (MB) * MEAN $=822.9$ STD DEV $=5.1$ MAX $=833.4$ AT 2330 GMT ON DAY 31 MIN $=813.7$ AT 400 GMT ON DAY 26
* WINDS (M/S) * MEAN $=2.5$ STD DEV $=1.8$ RESULTANT $=1.9$ FROM 332. CONSTANCY $=0.77$ MAX $=7.6$ FROM 332 . AT 1800 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $55.6 \%$ PRESSURE: $55.2 \%$ WINDS: $55.2 \%$ WIND SPEED (M/S): $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrr} & -2-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
 $\begin{array}{llllllllllllllllll}\text { PERCENT } & 24 & 8 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 1 & 4 & 3 & 4 & 15 & 20 & 17\end{array}$

FEB 97
HR PP IT VV DD $\begin{array}{llll}00 & 833-11 & 2305\end{array}$ $\begin{array}{lllll}03 & 833 & -12 & 3 & 325\end{array}$ $\begin{array}{lllll}06 & 833 & -14 & 4 & 315\end{array}$ $\begin{array}{lllll}09 & 834 & -14 & 4 & 319\end{array}$
$\begin{array}{llll}12 & 834 & -13 & 5 \\ 312\end{array}$ $\begin{array}{llll}15 & 835 & -12 & 6\end{array} 316$ 18
$\begin{array}{llll}21 & 835-13 \quad 4339\end{array}$ DAY 8
$\begin{array}{llll}00 & 818 & -15 & 7236\end{array}$
$\begin{array}{lllll}03 & 818 & -17 & 8 & 245\end{array}$
$\begin{array}{lllll}06 & 818 & -19 & 362\end{array}$
$\begin{array}{llll}09 & 818 & -19 & 4 \\ 252\end{array}$
$\begin{array}{llll}12 & 818 & -19 & 3 \\ 231\end{array}$
$\begin{array}{llll}15 & 817 & -18 & 6 \\ 226\end{array}$
$\begin{array}{llll}18 & 817 & -18 & 5 \\ 212\end{array}$

| 21 | 817 | -18 | 6 |
| :--- | :--- | :--- | :--- | DAY 15

$\begin{array}{llll}00 & 811 & -25 & 4 \\ 350\end{array}$
$\begin{array}{lllll}03 & 811 & -27 & 4 & 353\end{array}$
$\begin{array}{lllll}06 & 812 & -24 & 4 & 318\end{array}$
$\begin{array}{llll}09 & 813 & -25 & 5 \\ 328\end{array}$
$\begin{array}{lllll}12 & 814 & -29 & 5 & 352\end{array}$
$\begin{array}{llll}15 & 815 & -21 & 4 \\ 300\end{array}$
$\begin{array}{llll}18 & 816 & -20 & 4 \\ 307\end{array}$
$\begin{array}{lll}21 & 817-18 \quad 4 \quad 292\end{array}$ DAY 22
$\begin{array}{llll}00 & 819 & -14 & 4 \\ 304\end{array}$
$\begin{array}{lllll}03 & 819 & -15 & 4 & 308\end{array}$
$\begin{array}{llll}06 & 819 & -15 & 3\end{array}$
$\begin{array}{llll}09 & 819 & -16 & 2332\end{array}$
$\begin{array}{llll}12 & 819 & -16 & 2 \\ 321\end{array}$
$\begin{array}{lllll}15 & 819 & -16 & 1 & 308\end{array}$
$\begin{array}{lllll}18 & 819 & -15 & 3 & 321\end{array}$
$\begin{array}{llll}21 & 819 & -14 & 3 \\ 307\end{array}$

PP TT VV DD
DAY 2
835-15 46
$\begin{array}{llll}836 & -18 & 4 & 18\end{array}$
$\begin{array}{llll}835 & -21 & 4 & 15\end{array}$
$\begin{array}{llll}835 & -24 & 5 & 14\end{array}$
$\begin{array}{llll}834 & -19 & 8 & 22\end{array}$
833 -16 8354
$833-13 \quad 8345$
DAY 9
816-18 4202
816-19 2215
816-20 1195
815-20 0 0
815-20 0 0
815-17 0 0
814-19 1 1 38
814-18 151 DAY 16
817-15 4302
$\begin{array}{lll}818 & -13 & 7 \\ 281\end{array}$
$818-14 \quad 6298$
$819-15 \quad 4291$
$820 \quad-16 \quad 4311$
$820-15 \quad 4298$
$\begin{array}{lll}821 & -15 & 514\end{array}$
822-14 5309

## DAY 23

819-15 4322
818-16 2332
$\begin{array}{llll}817 & -21 & 5 & 1\end{array}$
$\begin{array}{llll}816 & -29 & 6 & 3\end{array}$
$\begin{array}{llll}815 & -30 & 7 & 4\end{array}$
814-24 5359
813-21 4354
812-17 2346


| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  | day | 7 |  |
| 830 | -8 | 1 | 269 | 829 | -14 | 2 | 333 | 823 | -13 | 1 | 281 |
| 830 | -8 | 0 | 0 | 828 | -17 | 4 | 4 | 822 | -11 | 1 | 264 |
| 831 | -9 | 1 | 118 | 828 | -17 | 3 | 359 | 821 | -11 | 1 | 269 |
| 831 | -11 | 2 | 8 | 827 | -15 | 3 | 352 | 821 | -13 | 2 | 321 |
| 831 | -12 | 3 | 11 | 826 | -15 | 4 | 356 | 820 | -15 | 5 | 307 |
| 830 | -15 | 3 | 28 | 825 | -15 | 3 | 1 | 819 | -15 | 6 | 323 |
| 830 | -17 | 5 | 360 | 824 | -14 | 4 | 347 | 818 | -15 | 5 | 352 |
| 829 | -15 | 5 | 353 | 823 | -15 | 5 | 330 | 818 | -14 | 3 | 283 |
|  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 816 | -21 | 0 | 0 | 807 | -24 | 0 | 0 | 808 | -29 | 3 | 25 |
| 815 | -22 | 0 | 0 | 807 | -27 | 0 | 0 | 808 | -32 | 4 | 15 |
| 813 | -24 | 0 | 0 | 807 | -30 | 2 | 18 | 808 | -36 | 5 | 15 |
| 812 | -26 | 0 | 0 | 807 | -32 | 3 | 353 | 809 | -36 | 7 | 17 |
| 810 | -28 | 0 | 0 | 807 | -39 | 3 | 10 | 809 | -36 | 6 | 6 |
| 809 | -31 | 1 | 222 | 807 | -36 | 3 | 10 | 810 | -35 | 8 | 357 |
| 808 | -31 | 1 | 194 | 808 | -33 | 3 | 6 | 810 | -32 | 6 | 360 |
| 807 | -29 | 0 | 0 | 808 | -29 | 3 | 15 | 810 | -27 | 7 | 354 |
|  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 818 | -21 | 5 | 319 | 826 | -26 | 0 | 0 | 818 | -22 | 7 | 332 |
| 819 | -19 | 5 | 245 | 826 | -29 | 0 | 0 | 818 | -17 | 6 | 292 |
| 820 | -21 | 3 | 246 | 826 | -31 | 1 | 347 | 818 | -16 | 6 | 297 |
| 822 | -25 | 4 | 210 | 825 | -39 | 6 | 4 | 818 | -15 | 7 | 304 |
| 823 | -27 | 4 | 197 | 824 | -40 | 5 | 10 | 819 | -15 | 7 | 295 |
| 824 | -27 | 3 | 183 | 822 | -36 | 5 | 1 | 819 | -14 | 7 | 295 |
| 825 | -29 | 2 | 157 | 820 | -31 | 8 | 8 | 819 | -14 | 7 | 302 |
| 826 | -28 | . | 0 | 819 | -26 | 10 | 340 | 819 | -15 | 6 | 312 |
|  |  | 26 |  |  |  | 27 |  |  | DAY | 28 |  |
| 826 | -23 | 0 | 0 | 822 | -27 | 2 | 42 | 812 | -27 | 7 | 354 |
| 826 | -25 | 0 | 0 | 821 | -26 | 2 | 73 | 810 | -28 | 6 | 360 |
| 826 | -26 | 0 | 0 | 821 | -32 | 3 | 52 | 809 | -24 | 6 | 359 |
| 826 | -26 | 0 | 0 | 819 | -38 | 6 | 15 | 807 | -20 | 7 | 352 |
| 826 | -25 | 0 | 0 | 818 | -39 | 7 | 14 | 806 | -23 | 5 | 11 |
| 825 | -24 | 0 | 0 | 816 | -37 | 9 | 6 | 804 | -23 | 5 | 3 |
| 824 | -21 | 0 | 0 | 815 | -31 | 7 | 6 | 804 | -17 |  | 359 |
| 823 | -19 | 0 | 0 | 813 | -27 |  | 353 | 804 | -15 |  | 343 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-20.7$ Std dev $=7.2$ max $=-7.5$ at 40 GMT ON dAY 5 MIN $=-40.9$ at 1110 GMt on day 20
* theta (K) * MEAN $=267.26$
* PRESSURE (MB) * MEAN $=819.7$ STD DEV $=7.4$ MAX $=835.8$ AT 120 GMT ON DAY 2 MIN $=803.6$ AT 1540 GMT ON DAY 28 * WINDS (M/S) * MEAN $=3.7$ STD DEV $=2.3$ RESULTANT $=2.7$ FROM 336. CONSTANCY $=0.73 \mathrm{MAX}=11.0$ FROM 4. at 1940 gMt day 20 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \%$ WINDS: $0.9 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lllllllllllllllll}\text { PERCENT } & 32 & 8 & 3 & 1 & 0 & 1 & 0 & 1 & 2 & 5 & 3 & 2 & 4 & 8 & 19 & 12\end{array}$


MONTHLY SUMMARY

| PP |  | vV | DD | PP |  |  | DD | PP | TT |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | day | 7 |  |
| 806 | -19 | 4 | 22 | 805 | -19 | 8 | 15 | 798 | -25 | 2 | 298 | 802 | -21 | 4 | 298 |
| 804 | -20 | 7 | 18 | 804 | -22 | 6 | 31 | 798 | -27 | 5 | 314 | 802 | -22 | 3 | 281 |
| 803 | -21 | 7 | 8 | 803 | -23 | 4 | 53 | 799 | -27 | 5 | 308 | 802 | -24 | 4 | 295 |
| 803 | -22 | 9 | 6 | 801 | -23 | 2 | 111 | 800 | -29 | 5 | 323 | 803 | -27 | 5 | 305 |
| 803 | -25 | 11 | 356 | 799 | -24 | 0 | 0 | 800 | -30 | 7 | 321 | 803 | -27 | 6 | 309 |
| 804 | -26 | 9 | 354 | 797 | -24 | 2 | 42 | 801 | -28 | 7 | 311 | 804 | -32 | 4 | 359 |
| 805 | -24 | 10 | 6 | 797 | -22 | 2 | 360 | 801 | -25 | 3 | 305 | 804 | -32 | 4 | 3 |
| 805 | -20 | 9 | 15 | 797 | -26 | 3 | 321 | 801 | -21 | 4 | 305 | 804 | -29 | 5 | 360 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | day | 14 |  |
| 796 | -16 | 7 | 277 | 791 | -10 | 12 | 301 | 797 | -13 | 7 | 315 | 808 | -21 | 5 | 354 |
| 797 | -17 | 4 | 290 | 792 | -10 | 10 | 308 | 798 | -13 | 7 | 347 | 809 | -22 | 5 | 345 |
| 797 | -17 | 4 | 295 | 793 | -11 | 8 | 321 | 799 | -13 | 5 | 353 | 811 | -22 | 6 | 325 |
| 798 | -17 | 3 | 333 | 794 | -12 | 9 | 330 | 800 | -16 | 6 | 4 | 813 | -24 | 7 | 325 |
| 797 | -18 | 6 | 11 | 795 | -13 | 7 | 353 | 801 | -16 | 6 | 4 | 814 | -26 | 6 | 326 |
| 794 | -19 | 7 | 13 | 795 | -12 | 8 | 329 | 803 | -18 | 5 | 352 | 815 | -27 | 7 | 326 |
| 791 | -13 | 10 | 356 | 795 | -13 | 7 | 347 | 805 | -18 | 5 | 3 | 816 | -26 | 7 | 336 |
| 791 | -10 | 8 | 319 | 795 | -13 | 7 | 339 | 806 | -17 | 4 | 3 | 817 | -24 | 7 | 337 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 805 | -34 |  | 214 | 806 | -37 | 1 | 208 | 809 | -42 | 5 | 6 | 812 | -33 | 7 | 8 |
| 806 | -34 | 8 | 200 | 807 | -38 | 1 | 236 | 809 | -45 | 6 | 11 | 813 | -34 | 8 | 7 |
| 806 | -35 | 6 | 210 | 807 | -38 | 0 | 0 | 809 | -45 | 6 | 11 | 813 | -35 | 7 | 14 |
| 806 | -36 | 7 | 222 | 807 | -37 | 1 | 301 | 810 | -43 | 7 | 11 | 814 | -34 | 8 | 10 |
| 807 | -36 | 4 | 212 | 808 | -39 | 4 | 312 | 810 | -42 | 7 | 6 | 815 | -35 | 7 | 11 |
| 806 | -37 | 1 | 211 | 808 | -40 | 5 | 319 | 810 | -40 | 7 | 10 | 815 | -36 | 7 | 11 |
| 806 | -36 |  |  | 808 | -43 | 3 | 8 | 811 | -37 | 7 | 8 | 816 | -34 | 7 | 18 |
| 806 | -35 |  | 210 | 809 | -41 | 3 | 356 | 811 | -34 | 6 | 13 | 816 | -33 | 7 | 11 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 817 | -41 | 5 | 1 | 821 | -34 | 6 | 4 | 808 | -23 | 6 | 336 | 798 | -18 | 11 | 7 |
| 818 | -42 | 5 | 357 | 818 | -35 | 8 | 342 | 807 | -21 |  | 329 | 795 | -20 | 16 | 3 |
| 819 | -43 | 6 | 357 | 816 | -36 | 7 | 337 | 805 | -18 | 6 | 301 | 794 | -21 | 12 | 1 |
| 820 | -41 | 5 | 347 | 815 | -34 | 7 | 339 | 805 | -21 | 3 | 291 | 792 | -22 | 14 | 3 |
| 821 | -41 | 5 | 347 | 813 | -33 | 7 | 328 | 805 | -21 | 4 | 307 | 791 | -23 | 10 | 13 |
| 822 | -39 | 4 | 342 | 812 | -29 | 5 | 311 | 805 | -20 | 3 |  | 790 | -21 | 8 | 10 |
| 822 | -42 | 5 | 357 | 811 | -28 | 6 | 321 | 804 | -18 | 4 |  | 791 |  | 15 | 1 |
| 822 | -38 | 5 | 359 | 810 | -25 | 5 | 326 | 802 | -21 | 7 | 25 | 791 | -21 | 13 | 356 |

* temperature ( $C$ ) * mean $=-27.7$ Std dev $=8.2$ max $=-9.3$ at 1920 GMT ON DAY 11 min $=-44.9$ at 240 GMt ON day 20
* theta (K) * MEAN $=261.10$
* PRESSURE (MB) * MEAN $=806.4$ STD DEV $=7.4$ MAX $=822.4$ AT 1820 GMT ON DAY 25 MIN $=789.6$ AT 1530 GMT ON DAY 28
* WINDS (M/S) * MEAN $=6.0$ STD DEV $=2.5$ RESULTANT $=5.2$ FROM 351 . CONSTANCY $=0.87 \mathrm{MAX}=17.4$ FROM 11 . AT 200 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $\quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60$ PERCENT: $\begin{array}{lllllllllllllll}6 & 13 & 29 & 36 & 10 & 4 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 48 & 9 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 2 & 0 & 3 & 4 & 13 & 16\end{array}$
$\begin{array}{llll}\text { HR } & \text { PP } & \text { TT VV } \\ & \text { DAY } & 1\end{array}$
$00 \quad 799-2314356$
$03 \quad 799-2211356$
$\begin{array}{lllll}06 & 800 & -22 & 6 & 343\end{array}$
$\begin{array}{lllll}09 & 801 & -26 & 4 & 10\end{array}$
$\begin{array}{lllll}12 & 802 & -31 & 7 & 356\end{array}$
$\begin{array}{lllll}15 & 804 & -32 & 6 & 7\end{array}$
$\begin{array}{lllll}18 & 805 & -35 & 8 & 8\end{array}$
$\begin{array}{lllll}21 & 805 & -33 & 8 & 120\end{array}$
DAY 8
$00 \quad 808$-30 1292
$\begin{array}{lllll}03 & 809 & -30 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 810 & -32 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 810 & -35 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 811 & -36 & 1 & 173\end{array}$
$\begin{array}{lllll}15 & 811 & -35 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 811 & -39 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 811 & -38 & 2\end{array}$
DAY 15
$\begin{array}{lllll}00 & 799 & -45 & 6 & 17\end{array}$
$\begin{array}{lllll}03 & 799 & -44 & 6 & 28\end{array}$
$\begin{array}{lllll}06 & 800 & -43 & 6 & 17\end{array}$
$\begin{array}{lllll}09 & 800 & -42 & 7 & 24\end{array}$
$\begin{array}{lllll}12 & 801 & -41 & 6 & 13\end{array}$
$\begin{array}{lllll}15 & 801 & -42 & 7 & 13\end{array}$
$\begin{array}{lllll}18 & 802 & -42 & 6 & 15\end{array}$
$\begin{array}{lllll}21 & 802 & -43 & 5 & 28\end{array}$ DAY 22
$\begin{array}{lllll}00 & 817 & -33 & 3 & 14\end{array}$
$\begin{array}{lllll}03 & 817 & -32 & 3 & 1\end{array}$
$\begin{array}{lllll}06 & 818 & -32 & 3 & 4\end{array}$
$\begin{array}{lllll}09 & 818 & -30 & 2 & 337\end{array}$
$\begin{array}{lllll}12 & 818 & -31 & 2 & 329\end{array}$
$\begin{array}{lllll}15 & 819 & -33 & 5 & 353\end{array}$
$\begin{array}{lllll}18 & 819 & -37 & 5 & 357\end{array}$
$\begin{array}{lllll}21 & 819 & -40 & 6 & 3\end{array}$
DAY 29
$00 \quad 798$-29 5316
$\begin{array}{lllll}03 & 799 & -32 & 5 & 322\end{array}$
$\begin{array}{lllll}06 & 798 & -31 & 7 & 336\end{array}$
$\begin{array}{lllll}09 & 798 & -23 & 4 & 343\end{array}$
$\begin{array}{lllll}12 & 796 & -22 & 7 & 1\end{array}$
$\begin{array}{lllll}15 & 795 & -26 & 7 & 6\end{array}$
$\begin{array}{lllll}18 & 796 & -26 & 4 & 352\end{array}$
$\begin{array}{llll}21 & 798 & -25 \quad 5336\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{llllllll}806 & -26 & 6 & 3 & 810 & -33 & 8 & 20\end{array}$
$\begin{array}{llllllll}807 & -27 & 8 & 3 & 810 & -34 & 9 & 24\end{array}$
$\begin{array}{llllllll}807 & -28 & 11 & 6 & 810 & -33 & 11 & 30\end{array}$
$\begin{array}{llllllll}808 & -29 & 10 & 8 & 810 & -33 & 8 & 28\end{array}$
$\begin{array}{llllllll}809 & -28 & 10 & 14 & 810 & -31 & 8 & 28\end{array}$
$\begin{array}{llllllll}809 & -27 & 10 & 17 & 810 & -31 & 10 & 30\end{array}$
$\begin{array}{llllllll}810 & -28 & 9 & 13 & 810 & -30 & 10 & 25\end{array}$
$\begin{array}{llllllll}810 & -29 & 8 & 22 & 810 & -30 & 11 & 22\end{array}$ DAY 9
811-37 0
$810-40 \quad 3319$
$\begin{array}{llll}804 & -36 & 3 & 301 \\ 802 & -46 & 4 & 3\end{array}$
$\begin{array}{llllllll}808 & -46 & 6 & 10 & 802 & -41 & 6 & 329\end{array}$
$\begin{array}{llllllll}807 & -43 & 8 & 8 & 801 & -41 & 5 & 349\end{array}$
$\begin{array}{llllllll}806 & -41 & 7 & 8 & 800 & -46 & 5 & 7\end{array}$
$\begin{array}{llllllll}804 & -39 & 6 & 17 & 799 & -45 & 6 & 6\end{array}$
$\begin{array}{llllllll}804 & -36 & 5 & 4 & 799 & -45 & 7 & 4\end{array}$ DAY 16
802-45 5
$\begin{array}{llllllll}802 & -49 & 6 & 11 & 804 & -53 & 4 & 6\end{array}$
$\begin{array}{llllll}801 & -50 & 5 & 7 & 805 & -52\end{array}$
$\begin{array}{llllllll}801 & -48 & 3 & 359 & 806 & -50 & 2 & 6\end{array}$
$\begin{array}{llllllll}801 & -48 & 5 & 14 & 808 & -54 & 4 & 22\end{array}$
$\begin{array}{lllllll}801 & -47 & 3 & 357 & 809 & -49 & 0\end{array}$
$\begin{array}{llllllll}802 & -50 & 4 & 360 & 811 & -48 & 5 & 17\end{array}$
$\begin{array}{llllllll}803 & -50 & 3 & 7 & 812 & -47 & 7 & 45\end{array}$
DAY 23
$819-407350$
$818-417356$
818-42 8350
817-42 6354
$\begin{array}{llllllll}816 & -44 & 7 & 3 & 813 & -27 & 4 & 319\end{array}$
$\begin{array}{llllllll}814 & -42 & 8 & 1 & 816 & -31 & 4 & 311\end{array}$
$\begin{array}{llllllll}812 & -42 & 9 & 6 & 819 & -34 & 4 & 349\end{array}$
$\begin{array}{llllllll}810 & -39 & 7 & 8 & 820 & -33 & 6 & 316\end{array}$


| 795 | -34 | 5 |
| :--- | :--- | :--- |

$$
\text { DAY } 18
$$

814-48 $4 \quad 15$ $\begin{array}{llllllll}814 & -36 & 0 & 0 & 817 & -39 & 6 & 51\end{array}$ $\begin{array}{llllllll}814 & -37 & 0 & 0 & 818 & -42 & 7 & 30\end{array}$ $\begin{array}{llllllll}814 & -32 & 2 & 72 & 819 & -42 & 5 & 24\end{array}$ $\begin{array}{llllllll}815 & -32 & 6 & 79 & 819 & -43 & 5 & 14\end{array}$ $\begin{array}{llllllll}815 & -30 & 7 & 70 & 820 & -45 & 7 & 7\end{array}$ $\begin{array}{llllllll}816 & -33 & 6 & 70 & 820 & -46 & 3 & 8\end{array}$ $\begin{array}{llllllll}816 & -35 & 6 & 59 & 820 & -36 & 1 & 315\end{array}$

## DAY 26

814-17 7281
816-18 7302
816-18 7329
815-18 $6 \quad 1$
811-19 $7 \quad 6$
806-13 11295
807-15 10274
808-15 9287

PP TT VV DD DAY 6
814-21 $5 \quad 8$
813-19 $8 \quad 13$
811-19 $11 \quad 32$
809-21 $11 \quad 21$
806-21 $19 \quad 31$
807-20 $16 \quad 28$
807-20 $15 \quad 20$
808-20 1517
DAY 13
801-43 6 6
801-43 6
800-41 814
$\begin{array}{llll}799 & -44 & 7 & 14\end{array}$
$\begin{array}{llll}798 & -44 & 8 & 11\end{array}$
$\begin{array}{llll}797 & -43 & 8 & 11\end{array}$
796-43 96
$\begin{array}{llll}795 & -44 & 7 & 8\end{array}$

$$
\text { DAY } 20
$$

$\begin{array}{llll}820 & -35 & 1 & 18\end{array}$
$\begin{array}{llll}820 & -32 & 1 & 27\end{array}$
$\begin{array}{llll}819 & -33 & 1 & 7\end{array}$
$\begin{array}{llll}819 & -39 & 2 & 15\end{array}$
818-42 2356
817-44 5 1
816-45 0
$\begin{array}{llllllll}815 & -44 & 8 & 8 & 816 & -40 & 6 & 14\end{array}$
DAY 27
806-17 6330
803-17 614
799-18 8330
797-18 12315
799-18 14239
802-23 17257
806-33 7253
$809-37 \quad 4276$

PP TT VV DD DAY 7
809-23 14
$\begin{array}{llll}810 & -24 & 15 & 17\end{array}$
$\begin{array}{llll}809 & -23 & 13 & 14\end{array}$
809-22 $11 \quad 11$
$\begin{array}{llll}808 & -23 & 9 & 11\end{array}$
$\begin{array}{llll}807 & -26 & 8 & 14\end{array}$
$\begin{array}{llll}807 & -26 & 6 & 15\end{array}$
807 -28 7347
DAY 14
795-44 611
$\begin{array}{llll}796 & -45 & 7 & 13\end{array}$
$\begin{array}{llll}796 & -47 & 7 & 8\end{array}$
$\begin{array}{llll}796 & -47 & 8 & 11\end{array}$
$\begin{array}{llll}797 & -47 & 6 & 17\end{array}$
$\begin{array}{llll}797 & -45 & 7 & 17\end{array}$
$\begin{array}{llll}798 & -44 & 7 & 21\end{array}$
$\begin{array}{llll}798 & -44 & 5 & 24\end{array}$
DAY 21
$\begin{array}{llll}815 & -43 & 7 & 15\end{array}$
$\begin{array}{llll}815 & -43 & 7 & 15\end{array}$
$\begin{array}{llll}815 & -41 & 7 & 8\end{array}$
$\begin{array}{llll}815 & -41 & 8 & 3\end{array}$
$816-38 \quad 10 \quad 347$
$\begin{array}{llll}816 & -33 & 5 & 3\end{array}$
$\begin{array}{llll}816 & -39 & 7 & 10\end{array}$
DAY 28
$\begin{array}{llll}810 & -44 & 4 & 11\end{array}$
808 $-43 \quad 6 \quad 6$
807-40 6 354
805-40 6353
$802-33 \quad 7359$
$\begin{array}{llll}799 & -27 & 8 & 347\end{array}$
$798-24 \quad 6305$
$798-23 \quad 8 \quad 273$

MONTHLY SUMMARY

* temperature ( $C$ ) * MEAN $=-33.9$ StD dev $=9.8$ MAX $=-13.4$ AT 1450 GMT ON DAY 26 MIN $=-54.7$ AT 1040 GMT ON DAY 17
* THETA (K) * MEAN $=254.42$
* PRESSURE (MB) * MEAN $=807.2$ STD DEV $=7.5$ MAX $=821.0$ AT 2340 GMT ON DAY 24 MIN $=791.7$ AT 1210 GMT ON DAY 11
* WINDS (M/S) * MEAN $=6.8 \mathrm{STD}$ DEV $=3.7$ RESULTANT $=5.8 \mathrm{FROM} 7 . \operatorname{CONSTANCY}=0.85 \mathrm{mAX}=26.8$ FROM 38 . AT 230 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25$ 25-30 $\quad 30-35$ 35-40 $\begin{array}{lllllllllll}40-45 & 45-50 & 50-55 & 55-60 & 60+\end{array}$ $\begin{array}{lllllllllllllllllllllllllllll}\text { PERCENT: } & 8 & 11 & 23 & 33 & 10 & 7 & 3 & 4 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 41 & 32 & 4 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 3 & 6 & 7\end{array}$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-35.1$ STD DEV $=12.3$ MAX $=-13.3$ AT 1520 GMT ON DAY 28 MIN $=-59.8$ AT 2140 GMT ON DAY 12
* THETA (K) * MEAN $=253.73$
* PRESSURE (MB) * MEAN $=800.0$ STD DEV $=9.6$ MAX $=821.2$ AT 410 GMT ON DAY 17 MIN $=780.6$ AT 200 GMT ON DAY 23
* WINDS (M/S) * MEAN $=9.1$ STD DEV $=4.2$ RESULTANT $=8.5$ FROM 10. CONSTANCY $=0.93$ MAX $=25.6$ FROM 8. AT 2200 GMT DAY 3
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: 0.0 \% WINDS: 15.7 \%

 $\begin{array}{lllllllllllllllll} & 48 & 33 & 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 3 & 5\end{array}$

| HR | PP |  |  | DD | PP | Tt | VV | DD | PP | IT |  | DD | PP |  | V | DD | PP |  |  | DD | PP |  |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day | 1 | 1 |  | DAY | 2 |  |  | DAY | 3 |  |  | day | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 813 | -43 | 7 | 6 | 806 | -29 |  |  | 811 | -35 |  |  | 815 | -38 | 7 | 10 | 812 | -23 | 8 |  | 817 | -23 | 8 | 357 | 811 | -17 | 20 | 7 |
| 03 | 813 | -41 | 9 | 6 | 806 | -28 |  |  | 814 | -40 | 5 | 1 | 814 | -38 | 9 | 11 | 812 | -23 | 7 |  | 818 | -26 | 9 | 6 | 813 | -20 | 14 | 3 |
| 06 | 812 | -39 | 8 | 6 | 805 | -24 |  |  | 815 | -41 | 7 | 10 | 813 | -38 | 8 | 7 | 813 | -22 | 7 |  | 818 | -24 | 12 | 11 | 814 | -21 | 13 | 357 |
| 09 | 811 | -35 | 9 | 7 | 805 | -26 |  |  | 816 | -40 | 6 | 8 | 812 | -32 | 5 | 13 | 813 | -24 | 8 | 1 | 818 | -23 | 14 | 8 | 816 | -22 | 13 | 354 |
| 12 | 809 | -32 | 10 | 8 | 805 | -26 |  |  | 816 | -40 | 7 | 10 | 811 | -27 | 6 | 13 | 813 | -21 | 9 |  | 817 | -20 | 15 | 14 | 816 | -21 | 12 | 4 |
| 15 | 808 | -30 | 9 | 14 | 805 | -29 |  |  | 816 | -38 | 10 | 4 | 810 | -27 | 10 | 6 | 814 | -21 | 9 |  | 814 | -20 | 22 | 21 | 816 | -21 | 10 | 6 |
| 18 | 807 | -27 | 7 | 6 | 806 | -31 |  |  | 815 | -36 | 7 | 3 | 810 | -25 | 8 | 6 | 814 | -23 | 9 | 1 | 811 | -16 | 23 | 22 | 816 | -19 | 10 | 3 |
| 21 | 806 | -31 | 7 | 7 | 808 | -34 |  |  | 816 | -38 | 7 | 8 | 811 | -25 | 10 | 6 | 815 | -24 | 9 |  | 811 | -16 | 22 | 22 | 815 | -18 | 9 | 349 |
|  |  | DAY | 8 | 8 |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DaY | 12 |  |  | day | 13 |  |  | DAY | 14 |  |
| 00 | 815 | -20 |  | 330 | 800 | -18 | 12 | 6 | 810 | -21 | 9 | 347 | 817 | -18 | 11 | 345 | 816 | -15 | 9 | 10 | 803 | -15 | 14 | 18 | 805 | -19 | 13 | 27 |
| 03 | 817 | -26 |  | 328 | 800 | -21 | 12 | 359 | 812 | -20 | 11 | 343 | 817 | -17 | 10 | 349 | 813 | -16 | 17 | 10 | 804 | -18 | 8 | 357 | 802 | -20 | 11 | 13 |
| 06 | 818 | -28 | 8 | 343 | 799 | -20 | 10 | 4 | 813 | -21 | 13 | 353 | 816 | -18 | 12 | 14 | 812 | -17 | 11 | 10 | 807 | -23 | 7 | 352 | 800 | -24 | , | 8 |
| 09 | 818 | -31 | 7 | 6 | 799 | -20 | 12 | 359 | 815 | -21 | 11 | 356 | 816 | -18 | 12 | 6 | 813 | -19 | 8 | 2 | 809 | -23 | 8 | 360 | 800 | -21 | 7 | 11 |
| 12 | 816 | -26 | 7 | 22 | 801 | -24 | 12 | 10 | 816 | -21 | 10 | 357 | 816 | -17 | 16 | 349 | 813 | -19 | 12 | 14 | 811 | -22 | 8 | 6 | 800 | -27 | 6 | 6 |
| 15 | 812 | -20 | 15 | 17 | 802 | -27 | 9 | 337 | 816 | -21 | 14 | 350 | 816 | -17 | 13 | 356 | 812 | -17 | 11 | 27 | 812 | -20 | 13 | 14 | 803 | -27 |  |  |
| 18 | 807 | -19 | 14 | 25 | 805 | -28 | 5 | 354 | 816 | -19 | 16 | 349 | 817 | -16 | 12 | 352 | 809 | -17 | 12 | 32 | 810 | -19 | 16 | 28 | 807 | -26 |  |  |
| 21 | 802 | -17 | 23 | 18 | 808 | -27 | 9 | 349 | 816 | -18 | 15 | 339 | 817 | -15 | 13 | 353 | 806 | -15 | 17 | 35 | 808 | -19 | 12 | 28 | 812 | -27 |  |  |
|  |  | DAY | 15 |  |  |  | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 816 | -26 |  |  | 820 | -40 |  |  | 807 | -23 |  |  | 815 | -27 |  |  | 819 | -33 |  |  | 819 | -23 |  |  | 823 | -23 | 12 | 28 |
| 03 | 819 | -29 |  |  | 819 | -45 |  |  | 809 | -25 |  |  | 816 | -22 |  |  | 820 | -28 |  |  | 820 | -25 |  |  | 824 | -24 | 9 | 27 |
| 06 | 821 | -31 |  |  | 818 | -44 |  |  | 809 | -27 |  |  | 817 | -23 |  |  | 820 | -25 |  |  | 821 | -25 |  |  | 824 | -25 | 12 | 15 |
| 09 | 823 | -35 |  |  | 817 | -44 |  |  | 809 | -28 |  |  | 818 | -22 |  |  | 822 | -21 |  |  | 821 | -27 |  |  | 826 | -26 | 10 | 14 |
| 12 | 822 | -32 |  |  | 814 | -43 |  |  | 809 | -26 |  |  | 819 | -24 |  |  | 822 | -17 |  |  | 822 | -25 |  |  | 828 | -27 | 10 | 24 |
| 15 | 821 | -31 |  |  |  |  |  |  | 811 | -29 |  |  | 819 | -26 |  |  | 821 | -17 |  |  | 822 | -29 |  |  | 829 | -29 | 7 | 31 |
| 18 | 821 | -38 |  |  | 808 | -27 |  |  | 813 | -30 |  |  | 818 | -29 |  |  | 819 | -18 |  |  | 822 | -23 | 9 | 18 | 830 | -31 | 9 | 25 |
| 21 | 820 | -41 |  |  | 807 | -24 |  |  | 814 | -26 |  |  | 819 | -34 |  |  | 820 | -23 |  |  | 822 | -23 | 13 | 13 | 831 | -34 | 9 | 25 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 831 | -36 | 7 | 24 | 818 | -41 | 11 | 14 | 813 | -43 | 5 | 359 | 820 | -43 | 5 | 356 | 822 | -36 | 6 | 35 | 817 | -35 | 5 | 343 | 819 | -43 | 7 | 3 |
| 03 | 830 | -36 | 8 | 22 | 816 | -40 | 9 | 7 | 815 | -38 |  |  | 820 | -43 | 8 | 360 | 822 | -37 |  | 359 | 817 | -39 | 6 | 360 | 819 | -43 | 6 | 6 |
| 06 | 829 | -36 | 9 | 25 | 814 | -40 | 8 | 14 | 817 | -39 |  |  | 821 | -40 | 5 | 343 | 821 | -40 | 8 |  | 818 | -42 | 6 | 3 | 819 | -44 | 7 | 10 |
| 09 | 828 | -35 | 8 | 25 | 813 | -41 | 8 | 17 | 818 | -38 |  |  | 821 | -39 | 5 | 333 | 820 | -41 | 7 |  | 818 | -42 | 7 | 360 | 819 | -44 | 7 | 4 |
| 12 | 826 | -36 | 7 | 20 | 811 | -41 | 8 | 8 | 819 | -38 |  |  | 822 | -36 | 6 | 333 | 819 | -38 | 8 |  | 818 | -42 | 7 | 360 | 819 | -43 | 7 | 3 |
| 15 | 824 | -38 | 8 | 14 | 811 | -42 | 8 | 10 | 820 | -35 |  | 330 | 822 | -35 | 5 | 330 | 818 | -37 | 8 |  | 818 | -42 | 7 | 3 | 819 | -44 | 8 | 6 |
| 18 | 822 | -40 | 8 | 22 | 810 | -42 | 10 | 6 | 820 | -40 | 7 | 347 | 823 | -35 | 4 | 330 | 817 | -33 | 8 | 360 | 818 | -44 | 7 | 8 | 819 | -45 | 7 | 7 |
| 21 | 821 | -40 | 7 | 14 | 811 | -40 |  | 360 | 820 | -43 |  | 352 | 823 | -35 | 6 | 347 | 817 | -32 | 7 | 342 | 818 | -45 | 6 | 10 | 819 | -45 | 7 | 1 |
|  |  | DAY | 29 |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 820 | -46 | 7 | 11 | 815 | -30 | 6 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 819 | -46 | 9 | 8 | 814 | -36 | 6 | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 818 | -45 | 9 | - 1 | 813 | -35 | 7 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 817 | -40 | 8 | 8 13 | 813 | -36 | 7 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 817 | -35 |  | 353 | 812 | -32 |  | 353 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 816 | -34 |  | 3356 | 812 | -28 | 8 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 816 | -36 | 7 | 76 | 812 | -28 | 9 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 815 | -36 | 5 | 510 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-29.6$ Std dev $=8.8$ max $=-13.9$ at 2130 GMT ON day 12 min $=-46.3$ at 310 GMt ON DAY 29
* theta (K) * MEAN $=258.28$
* PRESSURE (MB) * MEAN $=815.0$ STD DEV $=6.3$ MAX $=831.1$ at 2150 GMT ON DAY 21 MIN $=798.9$ AT 640 GMT ON DAY 9
* WINDS (M/S) * MEAN $=9.3$ STD DEV $=3.5$ RESULTANT $=9.0$ FROM 6. CONSTANCY $=0.97$ MAX $=24.4$ FROM 14. AT 2220 GMT DAY 6 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ UINDS: $25.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 1 \quad 10$ 33 26 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 64 & 25 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 10\end{array}$

JUL 97
HR PP TT VV DD PP TT VV DD DAY 1 DAY 2
$\begin{array}{lllllllll}00 & 812 & -31 & 10 & 1 & 812 & -30 & 10 & 360\end{array}$

$\begin{array}{lllllllll}06 & 812 & -27 & 7 & 8 & 815 & -26 & 12 & 1\end{array}$
$\begin{array}{lllllllll}09 & 812 & -28 & 10 & 4 & 816 & -24 & 12 & 3\end{array}$
$\begin{array}{lllllllll}12 & 811 & -27 & 15 & 10 & 817 & -24 & 11 & 356\end{array}$
$\begin{array}{lllllllll}15 & 810 & -26 & 15 & 4 & 817 & -25 & 11 & 17\end{array}$
$\begin{array}{lllllllll}18 & 811 & -28 & 21 & 18 & 816 & -25 & 12 & 14\end{array}$
$\begin{array}{lllllllll}21 & 812 & -28 & 12 & 3 & 813 & -23 & 17 & 21\end{array}$
DAY 8
$\begin{array}{lllll}00 & 816 & -16 & 18 & 17\end{array}$

| 03 | 816 | -19 | 24 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}06 & 816 & -20 & 22\end{array}$
$\begin{array}{lllll}09 & 816 & -20 & 20 & 1\end{array}$
$\begin{array}{lllll}12 & 818 & -18 & 18 & 7\end{array}$
$\begin{array}{lllll}15 & 818 & -22 & 14 & 13\end{array}$
$\begin{array}{llllll}18 & 817 & -21 & 14 & 356\end{array}$
21 820-23
DAY 15
00 797-31
03 799-32
$06 \quad 801$-33
$\begin{array}{llll}09 & 802 & -37\end{array}$
$\begin{array}{lll}12 & 803 & -43\end{array}$
$\begin{array}{lll}15 & 803 & -44\end{array}$
$\begin{array}{llll}18 & 803 & -43\end{array}$
21 803-43
DAY 22
$00-805-58$
$03 \quad 805$-58
06 805-56
09 805-55
$\begin{array}{ll}12 & 804\end{array}-54$
15 803-52
$\begin{array}{lll}18 & 801 & -47\end{array}$
$\begin{array}{lllll}21 & 798 & -38 & 10 & 8\end{array}$

## DAY 29

00 802-44
$03 \quad 800-48$
$06 \quad 797-46$
$09 \quad 794-45$
$\begin{array}{ll}12 & 789\end{array}-43$
$\begin{array}{llll}15 & 788 & -43\end{array}$
$18 \quad 786-38$
$21 \quad 786-40$


* TEMPERATURE (C) * MEAN $=-35.9$ STD DEV $=11.2$ mAX $=-12.5$ AT 1610 GMT ON DAY 7 MIN $=-58.3$ AT O GMT ON DAY 22
* $\operatorname{theta}(\mathrm{K})$ * MEAN $=252.61$
* PRESSURE (MB) * MEAN $=803.5$ STD DEV $=9.2$ MAX $=822.0$ at 1120 GMT ON DAY 4 MIN $=776.1$ at 2220 GMT ON DAY 10
* WINDS (M/S) * MEAN $=13.5$ STD DEV $=4.4$ RESULTANT $=13.3$ FROM 10. CONSTANCY $=0.98$ MAX $=27.2$ FROM 7. AT 2010 GMT DAY 7 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $69.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 16 -18 $18-20$ 20-25 $25-30$ 30-35 $\quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 46 & 46 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 5\end{array}$

AUG 97
HR PP TT VV DD

| PP | TT | VV | DD |
| ---: | ---: | ---: | ---: |
|  | DAY | 2 |  |
| 806 | -21 |  |  |
| 805 | -23 |  |  |
| 804 | -25 |  |  |
| 802 | -26 | 14 | 1 |
| 800 | -25 | 14 | 3 |
| 799 | -25 | 21 | 354 |
| 799 | -27 | 10 | 352 |
| 800 | -31 |  |  |

DAY 8
$\begin{array}{lllll}00 & 780 & -38 & 12 & 22\end{array}$
$\begin{array}{lllll}03 & 774 & -31 & 22 & 39\end{array}$
$\begin{array}{lllll}06 & 773 & -27 & 21 & 44\end{array}$
$\begin{array}{lllll}09 & 770 & -24 & 24 & 49\end{array}$
$\begin{array}{lllll}12 & 769 & -23 & 33 & 44\end{array}$
$\begin{array}{lllll}15 & 770 & -24 & 25 & 35\end{array}$
$\begin{array}{lllll}18 & 774 & -28 & 18 & 20\end{array}$
$\begin{array}{lllll}21 & 777 & -35 & 10 & 28\end{array}$
DAY 15
$\begin{array}{lllll}00 & 813 & -39 & 11 & 14\end{array}$
$\begin{array}{lllll}03 & 811 & -39 & 13 & 24\end{array}$
$\begin{array}{lllll}06 & 808 & -36 & 13 & 27\end{array}$
$\begin{array}{lllll}09 & 804 & -34 & 20 & 20\end{array}$
$\begin{array}{lllll}12 & 801 & -32 & 19 & 24\end{array}$
$\begin{array}{lllll}15 & 799 & -32 & 22 & 20\end{array}$
$\begin{array}{lllll}18 & 798 & -32 & 20 & 18\end{array}$
$\begin{array}{lllll}21 & 798 & -31 & 20 & 18\end{array}$ DAY 22
$\begin{array}{lllll}00 & 805 & -48 & 6 & 10\end{array}$
$\begin{array}{lllll}03 & 805 & -47 & 5 & 3\end{array}$
$\begin{array}{lllll}06 & 804 & -48 & 5 & 1\end{array}$
$\begin{array}{lll}09 & 805 & -44\end{array}$
$\begin{array}{llll}12 & 805 & -45\end{array}$
$\begin{array}{lll}15 & 805 & -44\end{array}$
$\begin{array}{llll}18 & 805 & -47\end{array}$
21 805-50
DAY 29
$\begin{array}{lll}00 & 807 & -59\end{array}$
$\begin{array}{lllll}03 & 807 & -58 & 7 & 11\end{array}$
$\begin{array}{lllll}06 & 806 & -57 & 7 & 8\end{array}$
$\begin{array}{lllll}09 & 805 & -56 & 7 & 11\end{array}$
$\begin{array}{lllll}12 & 804 & -57 & 9 & 14\end{array}$
$\begin{array}{lllll}15 & 804 & -55 & 8 & 11\end{array}$
$\begin{array}{lllll}18 & 804 & -52 & 9 & 10\end{array}$
$\begin{array}{lllll}21 & 804 & -48 & 7 & 10\end{array}$

| PP | TY | VV | DD |
| ---: | ---: | ---: | ---: | ---: |
| DAY | 3 |  |  |
| 799 | -35 |  |  |
| 796 | -40 |  |  |
| 790 | -31 | 12 | 18 |
| 790 | -26 | 11 | 274 |
| 792 | -31 | 6 | 271 |
| 796 | -35 | 11 | 271 |
| 799 | -38 | 12 | 271 |
| 801 | -40 |  |  |


| PPTT VV DD <br> DAY 4 <br> 800 -44 <br> 799 -48 <br> 797  |  |
| :---: | :---: | :---: |


| PP | TT VV | DD | PP | TT VV | DD |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| DAY | 5 |  |  | DAY | 6 |  |  |
| 795 | -53 |  |  | 775 | -42 |  |  |
| 793 | -60 |  |  | 775 | -43 |  |  |
| 790 | -57 |  |  | 774 | -43 |  |  |
| 786 | -45 |  |  | 774 | -48 |  |  |
| 780 | -39 |  | 774 | -50 |  |  |  |
| 777 | -40 | 21 | 4 | 773 | -49 |  |  |
| 776 | -40 | 19 | 6 | 773 | -49 |  |  |
| 776 | -41 |  | 774 | -49 |  |  |  |

PP TT VV DD DAY 7
774-49
773-51
773-54
774-56
775-55
778-52 12 3
781-4916 8
782-44 $12 \quad 11$
DAY 14
804-31 $18 \quad 35$
$\begin{array}{llll}806 & -31 & 14 & 27\end{array}$
$\begin{array}{lllll}808 & -32 & 12 & 11\end{array}$
$\begin{array}{lllll}809 & -32 & 15 & 17\end{array}$
$\begin{array}{llll}811 & -33 & 13 & 24\end{array}$
$\begin{array}{lllll}812 & -34 & 13 & 24\end{array}$
$\begin{array}{lllll}813 & -36 & 11 & 17\end{array}$
813-37 $12 \quad 11$
DAY 21
$\begin{array}{llll}803 & -46 & 8 & 11\end{array}$
$\begin{array}{llll}803 & -47 & 7 & 10\end{array}$
$\begin{array}{llll}803 & -47 & 7 & 11\end{array}$
$\begin{array}{llll}804 & -48 & 7 & 3\end{array}$
804-49 $7 \quad 8$
$\begin{array}{llll}804 & -49 & 7 & 8\end{array}$
$\begin{array}{llll}805 & -49 & 5 & 360\end{array}$
805-50 6
DAY 28
795-58 6
797-58
799-59
801-59
803-60
805-55
806-60
807-60

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-40.0$ StD deV $=10.2$ maX $=-16.1$ at 1440 GMT ON DAY 1 MIN $=-60.1$ at 1150 gmt ON dAY 28
* theta (K) * MEAN $=248.68$
* PRESSURE (MB) * MEAN $=798.1$ STD DEV $=9.7$ MAX $=813.4$ AT 2100 GMT ON DAY 14 MIN $=768.8$ AT 1040 GMT ON DAY 8
* WINDS (M/S) * MEAN $=11.6 \mathrm{STD}$ DEV $=4.9$ RESULTANT $=10.9$ fROM 20. CONSTANCY $=0.94$ max $=33.2$ from 44. at 1200 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $31.5 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 34 & 54 & 9 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 0 & 0\end{array}$


| PP |  |  | DD | PP | TT | V | DD | PP | TT | VV | DD | PP | TT | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | day | 5 |  |  | DAY | 6 |  |  | DAY |  |  |
| 810 | -34 | 7 | 11 | 803 | -34 | 6 | 11 | 804 | -35 | 7 | 13 | 802 | -37 | 9 | 11 |
| 808 | -35 | 7 | 11 | 803 | -33 | 7 | 17 | 803 | -37 | 6 | 14 | 800 | -36 | 14 | 17 |
| 807 | -37 | 7 | 14 | 803 | -30 | 7 | 18 | 803 | -39 | 8 | 17 | 800 | -35 | 16 | 14 |
| 806 | -38 | 7 | 11 | 803 | -34 | 6 | 15 | 803 | -34 | 9 | 15 | 800 | -35 | 14 | 11 |
| 805 | -39 | 8 | 6 | 803 | -33 | 6 | 18 | 803 | -34 | 10 | 17 | 800 | -34 | 13 | 11 |
| 803 | -32 | 4 | 10 | 804 | -35 | 7 | 17 | 803 | -38 | 12 | 13 | 800 | -33 | 12 |  |
| 803 | -30 | 6 | 13 | 804 | -37 | 7 | 14 | 803 | -40 | 10 | 15 | 799 | -31 | 13 | 28 |
| 803 | -28 | 7 | 14 | 804 | -38 | 6 | 14 | 803 | -39 | 10 | 20 | 798 | -32 | 11 | 35 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 793 | -32 |  |  | 811 | -41 |  |  | 806 | -50 |  |  | 798 | -51 |  |  |
| 795 | -34 |  |  | 810 | -39 |  |  | 804 | -53 |  |  | 797 | -60 |  |  |
| 797 | -34 |  |  | 810 | -36 |  |  | 802 | -56 |  |  | 796 | -60 |  |  |
| 800 | -35 |  |  | 810 | -40 |  |  | 800 | -55 |  |  | 796 | -59 |  |  |
| 804 | -38 |  |  | 810 | -43 |  |  | 800 | -52 |  |  | 794 | -58 |  |  |
| 808 | -38 |  |  | 810 | -44 |  |  | 799 | -54 |  |  | 792 | -55 |  |  |
| 810 | -37 |  |  | 808 | -48 |  |  | 799 | -52 |  |  | 791 | -54 |  |  |
| 812 | -37 |  |  | 807 | -49 |  |  | 799 | -51 |  |  | 791 | -53 |  |  |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY |  |  |
| 811 | -49 |  |  | 812 | -46 |  |  | 812 | -42 |  |  | 814 | -29 | 15 | 1 |
| 812 | -52 |  |  | 812 | -46 |  |  | 814 | -44 |  |  | 816 | -26 | 12 | 6 |
| 813 | -52 |  |  | 811 | -46 |  |  | 814 | -45 |  |  | 817 | -25 | 11 | 10 |
| 813 | -53 |  |  | 810 | -44 |  |  | 815 | -44 |  |  | 818 | -24 | 13 | 10 |
| 813 | -51 |  |  | 810 | -41 |  |  | 816 | -45 |  |  | 820 | -22 | 12 | 15 |
| 813 | -50 |  |  | 810 | -39 |  |  | 816 | -41 |  |  | 820 | -22 | 8 | 27 |
| 813 | -48 |  |  | 810 | -40 |  |  | 815 | -33 |  |  | 819 | -19 | 12 | 28 |
| 813 | -47 |  |  | 811 | -36 |  |  | 814 | -29 | 12 | 1 | 817 | -20 | 19 | 37 |
|  | DAY |  |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 813 | -16 | 19 | 46 | 806 | -23 | 11 | 39 | 803 | -24 |  |  | 806 | -32 |  |  |
| 813 | -16 | 14 | 44 | 805 | -23 | 7 | 28 | 804 | -24 |  |  | 806 | -33 | 9 | 10 |
| 815 | -17 | 13 | 44 | 803 | -23 |  |  | 806 | -25 |  |  | 806 | -33 | 10 | 8 |
| 814 | -17 | 14 | 35 | 800 | -19 |  |  | 807 | -26 |  |  | 807 | -36 | 9 | 6 |
| 813 | -19 | 14 | 42 | 798 | -21 |  |  | 808 | -30 |  |  | 807 | -37 | 8 | 4 |
| 812 | -18 | 13 | 42 | 798 | -23 |  |  | 808 | -34 |  |  | 809 | -39 | 8 | 11 |
| 810 | -19 | 13 | 45 | 800 | -22 |  |  | 808 | -30 |  |  | 809 | -36 | 12 | 10 |
| 808 | -20 | 17 | 37 | 801 | -24 |  |  | 807 | -31 |  |  | 810 | -30 | 8 | 7 |

* temperature ( $C$ ) * mean $=-34.4$ Std dev $=11.8$ max $=-11.8$ at 710 GMT ON dAY 24 MIN $=-60.9$ at 350 GMT ON dAY 14
* theta (K) * MEAN $=253.95$
* PRESSURE (MB) * MEAN $=805.4$ STD DEV $=7.4$ MAX $=820.3$ AT 1420 GMT ON DAY 21 MIN $=784.6$ AT 840 GMT ON DAY 10
* WINDS (M/S) * MEAN $=11.7$ STD DEV $=4.2$ RESULTANT $=11.3$ FROM 23 . CONSTANCY $=0.97$ mAX $=26.3$ FROM 46. at 820 GMT DAY 24
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $46.7 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ \text { PERCENT: } & 0 & 0 & 5 & 16 & 20 & 18 & 14 & 11 & 5 & 8 & 3 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 27 & 52 & 20 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1\end{array}$


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-24.6$ Std dev $=7.2$ max $=-11.6$ at 2340 GMT ON day 23 min $=-40.9$ at 1100 GMt ON dAY 20
* THETA (K) * MEAN $=264.10$
* PRESSURE (MB) * MEAN $=809.4$ STD DEV $=6.2$ MAX $=822.4$ AT 1050 GMT ON DAY 11 MIN $=792.7$ AT 1030 GMT ON DAY 31
* WINDS (M/S) * MEAN $=10.8$ STD DEV $=3.1$ RESULTANT $=10.2$ FROM 16. CONSTANCY $=0.94$ maX $=22.5$ FROM 3 . AT 2100 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $70.6 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W WNW NW NNW
PERCENT
$29 \begin{array}{lllllllllllllll} & 49 & 14 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1\end{array}$ DAY 1
00 798-19
03 798-21
$06 \quad 799-24$
$09 \quad 800-24$
$12 \quad 800-25$
$15 \quad 801-25$
18 801-23
21 802-21

|  | DAY |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 818 | -18 | 18 | 20 |
| 03 | 820 | -18 | 18 | 18 |
| 06 | 821 | -19 | 19 | 22 |
| 09 | 823 | -20 | 14 | 28 |
| 12 | 825 | -20 | 11 | 30 |
| 15 | 826 | -20 | 12 | 22 |
| 18 | 826 | -18 | 10 | 31 |
| 21 | 826 | -18 | 10 | 39 |
|  |  | DAY | 15 |  |

$\begin{array}{lllll}00 & 815 & -15 & 9 & 34\end{array}$
$\begin{array}{lllll}03 & 815 & -16 & 12 & 30\end{array}$
$\begin{array}{llll}06 & 817 & -19 & 9\end{array}$
$09 \quad 818-21 \quad 8 \quad 38$
$\begin{array}{lllll}12 & 819 & -22 & 8 & 31\end{array}$
$\begin{array}{lllll}15 & 819 & -20 & 7 & 28\end{array}$
$\begin{array}{lllll}18 & 819 & -18 & 9 & 25\end{array}$
$\begin{array}{lllll}21 & 820 & -17 & 7 & 13\end{array}$
dAY 22
00 832-10
$\begin{array}{llll}03 & 832 & -12\end{array}$
$06 \quad 832-16$
09 833-16
$12 \quad 834-15$
$\begin{array}{lll}15 & 835 & -13\end{array}$
$\begin{array}{lllll}18 & 835 & -10 & 5 & 197\end{array}$
$\begin{array}{llll}21 & 836 & -10 & 512\end{array}$ DAY 29
00 821-15
$\begin{array}{llll}03 & 821 & -17\end{array}$
$06 \quad 821-23$
$\begin{array}{lllll}09 & 822 & -25 & 4 & 7\end{array}$
$\begin{array}{lllll}12 & 823 & -22 & 4 & 8\end{array}$
$\begin{array}{lllll}15 & 823 & -20 & 6 & 346\end{array}$
$\begin{array}{lllll}18 & 824 & -17 & 5 & 356\end{array}$
$21 \quad 824-16 \quad 7357$



Dar 7 814-22 11都

| HR | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{cc}\text { VV } & \text { DD } \\ 1 & \end{array}$ | PP |  |  | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD | PP |  |  | DD |  |  | 5 | DD |  |  | 6 | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | 7 | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 824 | -13 |  | 823 | -16 | 4 | 20 | 824 | -12 | 5 | 45 | 832 | -10 |  | 335 | 831 | -8 | 1 | 105 | 824 | -6 | 6 | 357 | 827 | -5 | 3 | 352 |
| 03 | 824 | -16 |  | 823 | -17 | 3 | 20 | 823 | -12 | 5 | 37 | 833 | -11 |  | 359 | 829 | -9 | 2 | 28 | 823 | -6 | 4 | 360 | 827 | -7 | 4 | 6 |
| 06 | 824 | -19 |  | 823 | -20 | 5 | 359 | 823 | -11 | 4 | 31 | 834 | -14 | 6 | 359 | 828 | -9 | 3 | 15 | 823 | -11 | 7 | 11 | 827 | -10 | 4 | 3 |
| 09 | 823 | -22 |  | 824 | -22 | 5 | 1 | 823 | -12 | 5 | 24 | 835 | -18 | 4 | 8 | 827 | -9 | 5 | 4 | 824 | -8 | 6 | 346 | 827 | -10 | 6 | 1 |
| 12 | 823 | -23 |  | 825 | -23 | 5 | 7 | 824 | -14 | 7 | 360 | 835 | -18 |  | 360 | 826 | -8 | 4 | 7 | 824 | -11 | 3 | 326 | 827 | -10 | 6 | 345 |
| 15 | 823 | -21 | 4357 | 825 | -20 | 5 | 15 | 825 | -12 | 6 | 356 | 835 | -14 |  | 333 | 825 | -7 | 6 | 357 | 825 | -7 | 5 | 329 | 827 | -7 | 5 | 335 |
| 18 | 823 | -18 | $7 \quad 10$ | 825 | -16 | 5 | 20 | 828 | -11 | 8 | 337 | 834 | -8 | 0 | 0 | 825 | -6 | 7 | 352 | 826 | -6 | 6 | 342 | 827 | -6 | 6 | 339 |
| 21 | 823 | -17 | $6 \quad 11$ | 825 | -13 | 4 | 39 | 831 | -10 | 7 | 340 | 833 | -7 | 0 | 0 | 824 | -5 | 6 | 346 | 826 | -6 | 1 | 343 | 827 | -5 | 4 | 316 |
|  |  | DAY | 8 |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 827 | -4 | 1269 | 823 | -6 |  |  | 819 | -5 | 1 | 319 | 821 | -8 | 4 | 6 | 821 | -8 | 5 | 352 | 815 | -7 | 1 | 342 | 813 | -6 | 0 | 0 |
| 03 | 826 | -6 | 2343 | 822 | -9 |  |  | 819 | -8 | 3 | 343 | 821 | -9 | 2 | 31 | 820 | -8 | 2 | 352 | 814 | -11 | 1 | 4 | 814 | -9 | 0 | 0 |
| 06 | 826 | -7 | 1343 | 822 | -9 |  |  | 819 | -13 | 2 | 3 | 821 | -12 | 3 | 45 | 820 | -10 | 2 | 7 | 814 | -13 | 1 | 3 | 816 | -10 | 0 | 0 |
| 09 | 825 | -9 | 2343 | 821 | -11 |  |  | 819 | -15 | 5 | 6 | 821 | -11 | 4 | 11 | 819 | -12 | 3 | 15 | 813 | -16 | 2 | 4 | 817 | -20 | 4 | 7 |
| 12 | 825 | -10 | 3323 | 821 | -15 |  |  | 820 | -15 | 3 | 4 | 821 | -12 | 4 | 6 | 819 | -11 | 3 | 353 | 813 | -14 | 1 | 3 | 818 | -18 | 3 | 11 |
| 15 | 824 | -10 | 6328 | 820 | -11 | 3 | 339 | 820 | -12 | 4 | 357 | 822 | -14 | 4 | 25 | 818 | -9 | 2 | 3 | 812 | -11 | 0 | 0 | 819 | -13 | 4 | 3 |
| 18 | 824 | -9 | 4307 | 820 | -8 | 2 | 346 | 820 | -8 | 5 | 333 | 821 | -9 | 4 | 11 | 817 | -9 | 4 | 20 | 812 | -8 | 0 | 0 | 820 | -12 | 3 | 18 |
| 21 | 823 | -7 |  | 819 | -7 | 1 | 339 | 821 | -8 | 4 | 11 | 821 | -7 |  | 354 | 816 | -8 | 5 | 360 | 812 | -5 | 0 | 0 | 820 | -11 | 3 | 15 |
|  |  | DAY | 15 |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | day | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 820 | -10 | 210 | 820 | -11 | 3 | 202 | 818 | -13 | 1 | 292 | 820 | -12 |  | 301 | 814 | -10 | 5 | 277 | 821 | -11 | 6 | 269 | 824 | -9 | 1 | 3 |
| 03 | 819 | -9 | 0 | 820 | -14 | 4 | 200 | 818 | -13 | 1 | 311 | 820 | -14 |  | 333 | 814 | -10 | 7 | 274 | 822 | -11 | 5 | 264 | 824 | -10 | 4 | 30 |
| 06 | 819 | -14 | 139 | 821 | -15 | 1 | 184 | 817 | -16 | 2 | 8 | 820 | -18 | 5 | 17 | 815 | -11 | 7 | 253 | 823 | -12 | 3 | 264 | 823 | -8 | 5 | 14 |
| 09 | 819 | -19 | 213 | 820 | -16 | 1 | 214 | 818 | -21 | 4 | 8 | 819 | -21 | 5 | 3 | 817 | -12 | 10 | 264 | 823 | -13 | 2 | 307 | 823 | -6 | 5 | 283 |
| 12 | 819 | -14 | 0 | 820 | -16 | 2 | 170 | 818 | -21 | 4 | 3 | 818 | -20 | 5 | 1 | 818 | -13 | 10 | 264 | 824 | -12 | 3 | 274 | 824 | -6 | 4 | 269 |
| 15 | 820 | -13 | 1298 | 820 | -15 | 2 | 225 | 818 | -17 | 4 | 4 | 817 | -17 |  | 349 | 818 | -13 | 7 | 278 | 825 | -11 | 2 | 250 | 824 | -6 | 5 | 283 |
| 18 | 819 | -9 | 00 | 819 | -11 | 1 | 163 | 819 | -13 | 2 | 312 | 815 | -13 |  | 337 | 819 | -12 | 7 | 276 | 825 | -8 | 1 | 292 | 825 | -6 | 6 | 273 |
| 21 | 820 | -10 | 2224 | 819 | -11 | 1 | 242 | 820 | -12 | 1 | 278 | 815 | -9 |  | 318 | 820 | -11 | 6. | 274 | 825 | -7 | 1 | 330 | 826 | -4 | 3 |  |
|  |  | DAY | 22 |  | DAY | 23 |  |  | day | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 7 |  |  | DAY | 28 |  |
| 00 | 826 | -5 | 2345 | 829 | -5 |  | 318 | 829 | -10 | 9 | 218 | 829 | -13 | 5 | 18 | 825 | -7 | 4 | 239 | 822 | -5 | 5 | 30 | 826 | -10 | 8 | 360 |
| 03 | 826 | -7 | 3297 | 829 | -5 |  | 252 | 830 | -13 | 6 | 245 | 828 | -13 | 4 | 11 | 824 | -7 | 2 | 274 | 822 | -8 | 3 | 34 | 826 | -11 | 7 | 7 |
| 06 | 827 | -6 | 2325 | 829 | -7 | 1 | 278 | 830 | -13 | 2 | 231 | 827 | -12 | 4 | 3 | 824 | -8 | 2 | 290 | 824 | -10 | 4 | 18 | 826 | -12 | 9 | 1 |
| 09 | 828 | -8 | 3318 | 829 | -10 | 2 | 14 | 829 | -13 | 1 | 120 | 826 | -11 |  | 346 | 824 | -7 | 2 | 322 | 824 | -12 | 6 | 21 | 825 | -12 | 8 | 346 |
| 12 | 828 | -5 | 3308 | 828 | -13 | 6 | 1 | 829 | -15 | 0 | 0 | 826 | -10 |  | 329 | 823 | -7 | 3 | 326 | 825 | -12 | 8 | 21 | 826 | -12 |  | 347 |
| 15 | 829 | -5 | 3290 | 827 | -10 |  | 335 | 829 | -13 | 2 | 41 | 825 | -8 |  | 288 | 822 | -6 | 3 | 1 | 826 | -12 | 7 | 4 | 826 | -11 | 5 | 346 |
| 18 | 829 | -3 | 1319 | 827 | -8 | 5 | 257 | 829 | -12 | 3 | 39 | 825 | -7 |  | 281 | 822 | -5 | 4 | 21 | 826 | -10 | 8 | 11 | 825 | -11 | 8 | 337 |
| 21 | 829 | -3 | 4332 | 828 | -10 |  | 242 | 829 | -13 | 4 | 34 | 825 | -6 | 4 | 264 | 822 | -6 | 5 | 22 | 826 | -9 | 9 | 3 | 825 | -10 | 7 | 328 |
|  |  | DAY | 29 |  | day | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 826 | -10 | 4345 | 825 |  | 0 | 0 | 825 | -8 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 825 | -11 | 3346 | 825 | -8 | 0 | 0 | 825 | -12 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 825 | -12 | 3336 | 825 | -11 | 0 | 0 | 824 | -15 | 1 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 825 | -15 | 4354 | 826 | -11 | 0 | 0 | 824 | -15 | 2 | 314 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 825 | -16 | 311 | 826 | -18 |  | 300 | 823 | -13 | 3 | 335 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 825 | -14 | 420 | 826 | -10 | 0 | 0 | 823 | -12 | 3 | 326 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 825 | -11 | 310 | 826 | -6 | 0 | 0 | 822 | -12 | 4 | 325 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 825 | 10 | 2349 | 25 | -7 | 0 | 0 |  |  |  | 332 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-10.9$ Std dev $=4.1$ maX $=-2.5$ at 1920 GMT on day 22 min $=-23.4$ At 1050 GMt on day 1
* theta (K) * MEAN $=277.32$
* PRESSURE (MB) * MEAN $=823.2$ STD DEV $=4.4$ MAX $=835.3$ AT 1200 GMT ON DAY 4 MIN $=812.2$ AT 1550 GMT ON DAY 13
* WINDS (M/S) * MEAN $=3.6$ STD DEV $=2.2$ RESULTANT $=2.7$ FROM 342. CONSTANCY $=0.74$ MAX $=11.9$ FROM 250. AT 610 GMT DAY 19 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.0 \%$ WINDS: $4.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 32 & 13 & 4 & 0 & 0 & 1 & 0 & 0 & 1 & 1 & 2 & 4 & 9 & 6 & 9 & 19\end{array}$
PP TT VV DD PP TT VV DD PP TT VV DD DAY 1 DAY 2 DAY 3 LAT : 77.31s LONG
39.70 E

ELEVATION : 3810 M
PP TT VV DD. DAY 4
PP TT VV DD DAY 5
PP TT VV DD DAY 6
PP TT VV

613 $-38 \quad 3352$
612-34 2347
$\begin{array}{llllllll}611 & -29 & 7 & 29 & 612 & -32 & 3 & 307\end{array}$
$\begin{array}{llllllll}612 & -31 & 3 & 5 & 611 & -34 & 2 & 316\end{array}$
$\begin{array}{llllllll}612 & -37 & 3 & 18 & 610 & -40 & 2 & 300\end{array}$

DAY 8
DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21
$\begin{array}{llll}603 & -38 & 3 & 292\end{array}$
603-37 3307
603-40 3303

$$
\begin{array}{llll}
604 & -40 & 3 & 9 \\
604 & -37 & 0 & 0
\end{array}
$$

$$
\begin{array}{llll}
604 & -41 & 3 & 21
\end{array}
$$

DAY 22
DAY 23
DAY 24
DAY 25
DAY 26

600-57 3202
601 -54 3157
601-49 2149

DAY 27
DAY 28
598-35 $0 \quad 0$
$\begin{array}{llll}598 & -41 & 1 & 84\end{array}$

606-38 290

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=$ ****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT O GMT ON DAY O MIN =****** AT O GMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $90.2 \%$ PRESSURE: $90.2 \%$ WINDS: $90.2 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


| 03 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 06 |  |  |  |  |  |
| 06 |  |  |  |  |  |
| 09 |  |  |  |  |  |
| 12 | 601 | -42 | 2 | 261 |  |


|  |  | DAY | 8 |  | DAY | 9 |  |  | DAY |  |  | day 11 |  |  |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 |  |  |  | 597 | -54 | 3 | 149 | 592 | -57 | 3 | 40 | 593 | -50 | 4 | 39 |  |  |  |  | 595 | -60 | 3350 | 595 | -56 |  | 3282 |
| 03 | 598 | -57 | 2278 | 596 | -56 | 3 | 142 | 592 | -60 | 3 | 47 | 593 | -51 | 4 | 32 | 594 | -58 | 4 | 33 | 595 | -60 | 3358 | 595 | -56 |  | 2271 |
| 06 | 598 | -52 | 2258 | 595 | -52 | 3 | 150 | 592 | -57 | 3 | 47 | 593 | -47 | 3 | 29 | 594 | -57 | 3 | 12 | 596 | -55 | 3360 | 595 | -50 |  | 3282 |
| 09 | 598 | -50 | 3203 | 595 | -49 | 4 | 142 | 592 | -52 | 3 | 33 |  |  |  |  | 594 | -51 | 3 | 11 | 595 | -51 | 2337 | 596 | -45 |  | 3270 |
| 12 | 598 | -50 | 3167 | 594 | -49 | 2 | 139 | 592 | -51 | 3 | 45 |  |  |  |  | 595 | -52 | 3 | 11 | 595 | -50 | 3336 |  |  |  |  |
| 15 | 597 | -54 | 3184 | 593 | -54 | 3 | 95 | 592 | -53 | 3 | 52 |  |  |  |  | 595 | -56 | 4 | 21 | 595 | -53 | 4324 |  |  |  |  |
| 18 | 597 | -55 | 4158 | 593 | -58 | 3 | 85 | 592 | -53 | 3 | 28 |  |  |  |  | 595 | -58 | 3 | 21 | 595 | -56 | 3307 |  |  |  |  |
| 21 | 597 | -56 | 3161 | 593 | -57 | 3 | 66 | 592 | -49 | 4 | 29 |  |  |  |  | 595 | -60 | 3 | 8 | 595 | -56 | 2293 |  |  |  |  |
|  | DAY 15 |  |  | DAY 16 |  |  |  | DAY 17 |  |  |  | DAY 18 |  |  |  | DAY 19 |  |  |  | DAY 20 |  |  | DAY 21 |  |  |  |
| 00 | 596 | -50 | 2270 | 595 | -53 | 2 | 279 | 595 | -58 | 3 | 272 | 597 | -61 | 3 | 247 | 596 | -61 | 3 | 281 | 598 | -62 | 4236 | 598 | -51 |  | 2274 |
| 03 | 596 | -51 | 2271 | 594 | -52 | 2 | 274 | 595 | -60 | 4 | 262 | 596 | -60 | 4 | 243 | 596 | -58 | 4 | 284 | 598 | -61 | 4233 | 597 | -55 |  | 3284 |
| 06 | 595 | -49 | 3262 | 595 | -49 | 2 | 274 | 596 | -57 | 3 | 247 | 597 | -57 | 3 | 250 | 596 | -55 | 2 | 288 | 598 | -58 | 3229 | 598 | -53 |  | 3279 |
| 09 |  |  |  | 595 | -50 | 3 | 271 | 596 | -54 | 3 | 244 | 597 | -54 | 3 | 243 | 597 | -55 | 4 | 261 | 598 | -54 | 3222 | 598 | -51 |  | 3282 |
| 12 |  |  |  | 595 | -51 | 3 | 254 | 596 | -53 | 3 | 240 | 597 | -54 | 3 | 250 | 597 | -56 | 4 | 248 | 598 | -52 | 3215 | 598 | -51 |  | 2274 |
| 15 |  |  |  | 595 | -54 | 3 | 262 | 596 | -58 | 2 | 239 | 597 | -56 | 3 | 271 | 597 | -59 | 4 | 244 | 598 | -53 | 2236 | 598 | -54 |  | 2274 |
| 18 | 595 | -55 | 3299 | 595 | -57 | 3 | 257 | 596 | -60 | 3 | 240 | 596 | -58 | 4 | 274 | 598 | -58 | 4 | 240 | 598 | -51 | 4246 | 599 | -52 |  | 3262 |
| 21 | 595 | -55 | 3277 | 595 | -61 | 3 | 268 | 597 | -61 | 3 | 251 | 596 | -60 | 3 | 277 | 598 | -60 | 3. | 236 | 598 | -53 | 2270 | 599 | -51 |  | 2247 |
|  | dAY 22 |  |  | DAY 23 |  |  |  | DAY 24 |  |  |  | DAY 25 |  |  |  | DAY 26 |  |  |  | DAY 27 |  |  | DAY 28 |  |  |  |
| 00 | 599 | -52 | 2250 | 597 | -59 | 2 | 163 | 595 | -63 | 2 | 98 | 597 | -54 | 2 | 195 | 595 | -63 | 4 | 144 | 593 | -64 | 384 | 592 | -61 |  | 4299 |
| 03 | 599 | -57 | 2225 | 596 | -59 | 3 | 167 | 595 | -58 | 3 | 113 | 597 | -56 | 2 | 212 | 595 | -64 | 3 | 122 | 593 | -60 | 370 | 592 | -61 |  | 4289 |
| 06 | 599 | -51 | 2208 | 596 | -59 | 3 | 140 | 595 | -53 | 2 | 85 | 598 | -52 | 3 | 212 | 594 | -60 | 4 | 97 | 593 | -59 | 275 | 592 | -59 |  | 4281 |
| 09 | 600 | -50 | 2185 | 596 | -57 | 2 | 130 | 596 | -55 | 1 | 130 | 597 | -53 | 2 | 202 | 594 | -58 | 2 | 97 | 593 | -58 | 271 | 593 | -58 |  | 3270 |
| 12 | 599 | -52 | 2177 | 595 | -57 | 2 | 146 | 596 | -52 | 2 | 80 | 597 | -56 | 2 | 196 | 594 | -57 | 3 | 91 | 593 | -56 | 360 | 592 | -60 |  | 3271 |
| 15 | 599 | -56 | 2161 | 595 | -60 | 3 | 125 | 596 | -56 | 2 | 68 | 597 | -55 | 3 | 212 | 593 | -61 | 3 | 75 | 593 | -58 | 246 | 593 | -64 |  | 3270 |
| 18 | 599 | -57 | 3165 | 595 | -64 | 2 | 126 | 597 | -57 | 0 | 0 | 596 | -60 | 2 | 199 | 593 | -64 | 3 | 81 | 592 | -60 | 229 | 593 | -65 |  | 4274 |
| 21 | 598 | -59 | 2158 | 595 | -61 | 3 | 104 | 597 | -58 | 0 | 0 | 596 | -61 | 3 | 181 | 593 | -59 | 4 | 74 | 592 | -61 | 3343 | 593 | -66 |  | 4260 |
|  | DAY 29 |  |  | day 30 |  |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 593 | -67 | 4250 | 593 | -65 | 4 | 255 | 590 | -61 | 4 | 286 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 593 | -67 | 4241 | 593 | -64 | 5 | 255 | 590 | -61 | 3 | 262 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 594 | -63 | 5229 | 593 | -63 | 5 | 264 | 590 | -58 | 4 | 247 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 594 | -59 | 3225 | 593 | -60 | 3 | 271 | 590 | -55 | 3 | 215 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 593 | -60 | 3243 | 592 | -59 | 3 | 279 | 590 | -57 | 3 | 215 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 593 | -65 | 3244 | 592 | -63 | 4 | 285 | 590 | -56 | 1 | 147 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 593 | -65 | 4248 | 591 | -62 | 4 | 284 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 593 | -66 | 5254 | 591 | -61 | 5 | 284 | 590 | -56 | 1 | 210 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-56.4$ Std dev $=4.6$ max $=-38.5$ AT 1020 GMT ON DAY 1 MIN $=-67.6$ AT 2010 GMT ON DAY 28
* theta (K) * MEAN $=251.46$
* PRESSURE (MB) * MEAN $=595.2$ STD DEV $=2.6$ MAX $=604.1$ AT 130 GMT ON DAY 5 MIN $=589.7$ AT 820 GMT ON DAY 31
* WINDS (M/S) * MEAN $=2.9$ STD DEV $=0.8$ RESULTANT $=1.0$ FROM 258. CONSTANCY $=0.36 \mathrm{MAX}=5.7$ FROM 307. AT 110 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $27.0 \%$ PRESSURE: $27.0 \%$ WINDS: $27.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE $S$ S
PERCENT

$$
\begin{array}{llllllllllllllll}
3 & 6 & 4 & 4 & 6 & 2 & 6 & 6 & 2 & 6 & 7 & 16 & 21 & 8 & 2 & 2
\end{array}
$$

APR 97


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-62.1$ STD DEV $=6.1$ MAX $=-43.6$ AT 1510 GMT ON DAY 27 MIN $=-75.0$ AT 2110 GMT ON DAY 17
* THETA (K) * MEAN $=244.54$
* PRESSURE (MB) * MEAN $=598.0$ STD DEV $=6.6$ MAX $=611.0$ AT 1250 GMT ON DAY 19 MIN $=583.8$ AT 2050 GMT ON DAY 8
* WINDS (M/S) * MEAN $=3.8$ STD DEV $=1.7$ RESULTANT $=0.9$ FROM 333. CONSTANCY $=0.25$ MAX $=10.5$ FROM 216. AT 1730 GMT DAY 27
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.1 \%$ PRESSURE: $7.1 \%$ WINDS: $7.1 \%$


PERCENT

$$
\begin{array}{llllllllllllllll}
12 & 5 & 2 & 6 & 5 & 8 & 6 & 5 & 5 & 5 & 4 & 4 & 9 & 7 & 6 & 9
\end{array}
$$



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-65.7$ Std dev $=5.3$ MAX $=-51.5$ at 1020 GMt ON dAy 12 min $=-76.6$ at 1900 GMt on day 29
* theta (K) * MEAN $=241.19$
* PRESSURE (MB) * MEAN $=590.4$ STD DEV $=7.2$ MAX $=600.8$ AT 1210 GMT ON DAY 16 MIN $=575.1$ AT 830 GMT ON DAY 30
* WINDS (M/S) * MEAN $=4.4$ STD DEV $=2.5$ RESULTANT $=0.5$ FROM 9. CONSTANCY $=0.11$ maX $=9.4$ FROM 4. AT 1110 GMT DAY 6 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $41.1 \%$ PRESSURE: $41.1 \%$ WINDS: $41.1 \%$
 $\begin{array}{lllllllllllllllllllllllllllll}\text { PERCENT: } & 17 & 38 & 13 & 19 & 13 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 9 & 9 & 10 & 5 & 5 & 10 & 5 & 2 & 4 & 7 & 6 & 6 & 9 & 6 & 5 & 4\end{array}$

HR PP TT WV DD

$$
\text { DAY } 1
$$

PP TT VV DD
PP TT VV DD DAY 3
PP TT WV DD
DAY 4

PP
$\begin{array}{rrr}\text { IT } & \text { VV DD } \\ \text { DAY } & 5 & \end{array}$
PP TT VV DD DAY 6

PP TT WV DD DAY 7

00
03
06
09
12
15
18
21 DAY 8

DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14
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DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

12

15
18
21


DAY 30
DAY 31

00
03
06
$\begin{array}{lllllllll}09 & 584 & -62 & 8 & 343 & 583 & -68 & 14 & 9\end{array}$
$\begin{array}{llll}584 & -54 & 7313\end{array}$

DAY 29



| HR | PP |  |  | DD | PP | TT |  | DD | PP |  | W | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 597 | -54 | 2 | 11 | 600 | -66 | 4 | 18 | 591 | -69 | 4 | 338 |
| 06 | 597 | -51 | 3 | 52 | 599 | -60 | 4 | 18 | 592 | -60 | 2 | 278 |
| 09 | 598 | -53 | 3 | 59 | 599 | -55 | 3 | 12 | 592 | -58 | 3 | 268 |
| 12 | 599 | -53 | 3 | 40 | 598 | -56 | 4 | 360 | 592 | -59 | 4 | 258 |
| 15 |  |  |  |  | 596 | -60 | 4 | 360 | 593 | -63 | 4 | 250 |

DAY 8
DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

| 610 | -54 | 3 | 299 | 607 | -55 | 5 | 265 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 609 | -51 | 3 | 299 | 607 | -51 | 3 | 251 |
| 608 | -48 | 6 | 272 | 606 | -47 | 4 | 253 |
| 608 | -49 | 5 | 275 | 605 | -46 | 5 | 264 |
| 608 | -52 | 4 | 268 | 605 | -51 | 5 | 260 |
| 608 | -55 | 5 | 264 | 604 | -58 | 4 | 262 |

$\begin{array}{llll}602 & -56 & 2 & 279 \\ 602 & -50 & 2 & 265 \\ 601 & -47 & 3 & 282\end{array}$
$601-47 \quad 3282$

600-58 2307
$600-51 \quad 4289$ $600-47 \quad 2330$

DAY 15

| 00 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 03 | 600 | -52 | 3 | 82 |
| 06 | 598 | -52 | 3 | 75 |
| 09 | 597 | -48 | 5 | 59 |
| 12 | 596 | -49 | 4 | 57 |
| 15 | 595 | -52 | 4 | 57 |
| 18 | 594 | -57 | 5 | 49 |
| 21 |  |  |  |  |

DAY 22
$\begin{array}{lllll}00 & 587 & -64 & 3 & 115\end{array}$
$\begin{array}{lllll}03 & 588 & -58 & 3 & 118\end{array}$
$\begin{array}{lllll}06 & 589 & -52 & 3 & 108\end{array}$
$\begin{array}{lllll}09 & 589 & -48 & 2 & 97\end{array}$
$\begin{array}{lllll}12 & 589 & -48 & 3 & 74\end{array}$
$\begin{array}{lllll}15 & 590 & -53 & 2 & 66\end{array}$
$\begin{array}{lllll}18 & 590 & -60 & 4 & 61\end{array}$
$\begin{array}{lllll}21 & 590 & -61 & 4 & 50\end{array}$
DAY 29
00
03
06
09
12 15 18 21

* temperature ( $C$ ) * mean $=-55.6$ Std dev $=5.8$ max $=-41.0$ at 900 GMT ON day 7 min $=-69.0$ at 250 gmt on day 3
* THETA (K) * MEAN $=252.55$
* PRESSURE (MB) * MEAN $=593.5$ STD DEV $=6.3$ MAX $=610.0$ AT 130 GMT ON DAY 11 MIN $=582.8$ at 230 GMT ON DAY 30 * WINDS (M/S) * MEAN $=3.4$ STD DEV $=1.4$ RESULTANT $=1.3$ FROM 332. CONSTANCY $=0.39$ MAX $=9.8$ FROM 265. AT 1400 GMT DAY 6 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $42.7 \%$ PRESSURE: $42.7 \%$ WINDS: $42.7 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NH NNW



| HR | PP | TT | VV | DD |
| :--- | :--- | ---: | ---: | ---: |
|  |  | DAY | 1 |  |
| 00 |  |  |  |  |
| 03 |  |  |  |  |
| 06 |  |  |  |  |
| 09 |  |  |  |  |
| 12 |  |  |  |  |
| 15 |  |  |  |  |
| 18 |  |  |  |  |
| 21 |  |  |  |  | DAY 8

00

DAY 15
$\begin{array}{llll}609 & -35 & 4 & 210\end{array}$
$\begin{array}{lllll}609 & -31 & 3 & 209\end{array}$
$\begin{array}{lllll}610 & -27 & 5 & 191\end{array}$
$\begin{array}{llll}610 & -26 & 4 & 185\end{array}$
610-26 2196
$\begin{array}{llll}610 & -32 & 226\end{array}$
610-39 2223 DAY 22
616-32 4195
$\begin{array}{llll}616 & -31 & 4 & 175\end{array}$
$\begin{array}{llll}616 & -24 & 3 & 160\end{array}$
616-22 5158
616-20 4137
$\begin{array}{llll}616 & -20 & 3 & 127\end{array}$
615-26 2116
$\begin{array}{llll}615 & -32 & 2 & 81\end{array}$ DAY 29
$610-34 \quad 2347$
03
06
09
12
15
18
21

| PP | TT | VV | DD | PP | TT | VV | DD |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| DAY | 2 |  |  | DAY | 3 |  |  |
|  |  |  |  | 622 | -34 | 3 | 18 |
| 623 | -19 | 0 | 0 | 620 | -30 | 4 | 352 |
| 623 | -18 | 2 | 57 | 620 | -22 | 5 | 460 |
| 623 | -21 | 2 | 18 | 619 | -23 | 6 | 11 |
| 622 | -23 | 2 | 15 | 618 | -25 | 4 | 8 |
| 622 | -27 | 3 | 22 | 617 | -30 | 4 | 21 |
| 622 | -34 | 3 | 12 | 616 | -31 | 5 | 1 |
| DAY | 9 |  |  | DAY | 10 |  |  |


| PP TTY WV | DD |  |  |
| :---: | :---: | :---: | :---: |
| DAY | 4 |  |  |
|  |  |  |  |
|  |  |  |  |
| 609 | -37 | 2 | 22 |
| DAY | 11 |  |  |


| PP | TT | vV | DD | PP | TT | VV | DD |  | tt |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | dAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
|  |  |  |  |  |  |  |  | 604 | -37 | 2 | 52 |
| 608 | -31 | 1 | 151 |  |  |  |  |  |  |  |  |
| 608 | -29 | 2 | 160 |  |  |  |  |  |  |  |  |
| 607 | -27 | 4 | 167 |  |  |  |  |  |  |  |  |
| 607 | -28 | 6 | 158 |  |  |  |  |  |  |  |  |
| 606 | -29 | 5 | 156 |  |  |  |  |  |  |  |  |
| 606 | -31 | 5 | 160 | 604 | -30 | 2 | 63 |  |  |  |  |
|  |  |  |  | 604 | -36 | 3 | 45 |  |  |  |  |
|  | DAY | 12 |  |  | DAY |  |  |  | DAY | 14 |  |


|  |  | 603 | -35 | 3201 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 604 | -32 | 5208 | 606 |  |  | 212 |
|  |  | 604 | -29 | 6209 | 607 | -29 |  | 201 |
|  |  | 605 | -27 | 7192 | 607 | -28 |  | 194 |
| 602-28 | 7194 | 605 | -28 | 5205 | 608 | -28 |  | 205 |
| 602-32 | 5203 | 605 | -33 | 4219 | 608 | -33 |  | 213 |


| 611 | -29 | 7 | 250 | 615 | -27 | 8 | 191 | 613 | -29 | 11 | 253 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 611 | -28 | 8 | 234 | 615 | -26 | 7 | 201 | 612 | -27 | 12 | 253 |
| 612 | -28 | 7 | 227 | 616 | -27 | 6 | 215 | 611 | -26 | 14 | 240 |
| 612 | -30 | 6 | 227 | 616 | -32 | 4 | 205 | 611 | -25 | 12 | 227 |
|  |  |  |  | 615 | -36 | 3 | 215 | 611 | -27 | 11 | 213 |

DAY 19

| 613 | -31 | 7 | 222 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 615 | -30 | 7 | 196 | 615 | -36 | 3 | 208 |
| 615 | -27 | 8 | 191 | 613 | -29 | 11 | 253 |
| 615 | -26 | 7 | 201 | 612 | -27 | 12 | 253 |
| 616 | -27 | 6 | 215 | 611 | -26 | 14 | 240 |
| 616 | -32 | 4 | 205 | 611 | -25 | 12 | 227 |
| 615 | -36 | 3 | 215 | 611 | -27 | 11 | 213 |

615 -32 468
$\begin{array}{llll}615 & -29 & 3 & 54\end{array}$
614-26 $\quad 5 \quad 28$
614-23 $\quad 5 \quad 42$
614-23 $6 \quad 26$
$\begin{array}{llll}614 & -24 & 5 & 12\end{array}$
614-28 $\quad 3 \quad 36$
614-30 414
DAY 30

DAY 25

607-30 1 272
606-28 3246
$\begin{array}{lll}607 & -27 & 3\end{array}$
$607-25 \quad 3225$
$607-28 \quad 6229$
608-30 2203
$\begin{array}{lll}609 & -35 \quad 3189\end{array}$
DAY 26
DAY 24
DAY 27
DAY 28
$\begin{array}{llllllll}613 & -38 & 1 & 262 & 613 & -37 & 2 & 281\end{array}$

| 613 | -33 | 2 | 282 | 612 | -33 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllllll}613 & -31 & 4 & 277 & 612 & -29 & 3 & 292\end{array}$
$\begin{array}{lllllll}613 & -28 & 4 & 286 & 611 & -26 & 4 \\ 279\end{array}$

| 613 | -27 | 5 | 260 | 611 | -24 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 613 | -27 | 3 | 270 | 611 | -26 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{lllllll}613 & -32 & 2 & 274 & 610 & -30 & 2\end{array} 324$

609-33 3196
$613-37 \quad 3254$

DAY 20
615-27 5203
$\begin{array}{llllllll}615 & -26 & 5 & 199 & 617 & -30 & 3 & 189\end{array}$
$\begin{array}{llllllll}616 & -24 & 5 & 196 & 617 & -25 & 3 & 213\end{array}$

| 616 | -22 | 5 | 213 | 616 | -22 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{lllllll}616 & -22 & 8 & 209 & 616 & -21 & 6 \\ 199\end{array}$
$\begin{array}{llllll}616 & -22 & 6 & 203 & 616 & -22 \\ 5 & 206\end{array}$
$\begin{array}{lllllll}617 & -26 & 5 & 198 & 616 & -26 & 3\end{array} 229$
$\begin{array}{lllllll}617 & -32 & 4 & 212 & 616 & -35 & 3 \\ 227\end{array}$
DAY 21
$\begin{array}{ccc}617 & -33 & 309\end{array}$

DAY 31
612-32 0
612-33 1307
$612-30 \quad 5264$
612-27 6244
612-26 7239
$\begin{array}{llll}612 & -26 & 5 & 247\end{array}$
$613-30 \quad 5248$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-28.6$ Std dev $=4.5$ max $=-16.2$ at 810 GMt ON dAY 2 MIN $=-39.1$ at 2320 GMt ON dAY 26
* theta (K) * MEAN $=281.34$
* PRESSURE (MB) * MEAN $=612.3$ STD DEV $=4.7$ MAX $=623.2$ at 540 GMT ON DAY 2 MIN $=601.4$ AT 1420 GMT ON DAY 12
* WINDS (M/S) * MEAN $=4.2$ STD DEV $=2.4$ RESULTANT $=2.2$ FROM 219. CONSTANCY $=0.53 \mathrm{MAX}=13.5 \mathrm{FROM} 240$. AT 1500 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $47.2 \%$ PRESSURE: $47.2 \%$ WINDS: $47.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 5 & 9 & 4 & 2 & 1 & 2 & 3 & 6 & 6 & 27 & 12 & 9 & 8 & 5 & 2 & 1\end{array}$

| HR | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } & 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT W } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 983 | 0 |  | 981 | -1 |  | 982 | -1 |  | 978 | -1 |  | 980 | -1 |  | 982 | -1 |  | 981 | -1 |  |
| 03 | 982 | 1 |  | 981 | 1 |  | 982 | 1 |  | 977 | 1 |  | 980 | 1 |  | 982 | 2 |  | 979 | 2 |  |
| 06 | 981 | 1 |  | 981 | 2 |  | 981 | 1 |  | 977 | 2 |  | 979 | 2 |  | 982 | 1 |  | 978 | 2 |  |
| 09 | 981 | -1 |  | 981 | 1 |  | 980 | 1 |  | 978 | -1 |  | 979 | 1 |  | 983 | -1 |  | 977 | -1 |  |
| 12 | 981 | -3 |  | 981 | -3 |  | 979 | -1 |  | 978 | -2 |  | 980 | -2 |  | 982 | -3 |  | 977 | -4 |  |
| 15 | 981 | -5 |  | 982 | -4 |  | 978 | -4 |  | 978 | -5 |  | 981 | -5 |  | 982 | -5 |  | 977 | -5 |  |
| 18 | 981 | -6 |  | 982 | -3 |  | 978 | -4 |  | 980 | -6 |  | 982 | -4 |  | 982 | -5 |  | 978 | -6 |  |
| 21 | 981 | -4 |  | 982 | -1 |  | 978 | -3 |  | 980 | -3 |  | 982 | -3 |  | 981 | -3 |  | 978 | -5 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 978 | -3 |  | 980 | -3 |  | 982 | -3 |  | 984 | -3 |  | 985 | -2 |  | 987 | -3 |  | 984 | -2 |  |
| 03 | 978 | 0 |  | 980 | -2 |  | 983 | -1 |  | 984 | -2 |  | 984 | -3 |  | 986 | -1 |  | 983 | 1 |  |
| 06 | 978 | 0 |  | 980 | -2 |  | 983 | -2 |  | 984 | -1 |  | 984 | -3 |  | 985 | -2 |  | 983 | 2 |  |
| 09 | 979 | -2 |  | 981 | -2 |  | 984 | -2 |  | 984 | -2 |  | 985 | -4 |  | 985 | -4 |  | 983 | -4 |  |
| 12 | 979 | -4 |  | 981 | -5 |  | 985 | -5 |  | 985 | -5 |  | 985 | -5 |  | 986 | -8 |  | 983 | -6 |  |
| 15 | 979 | -6 |  | 982 | -7 |  | 985 | -4 |  | 985 | -5 |  | 986 | -5 |  | 985 | -9 |  | 982 | -5 |  |
| 18 | 979 | -7 |  | 982 | -7 |  | 984 | -4 |  | 985 | -5 |  | 987 | -7 |  | 984 | -9 |  | 982 | -4 |  |
| 21 | 980 | -6 |  | 982 | -6 |  | 984 | -3 |  | 985 | -4 |  | 987 | -6 |  | 984 | -6 |  | 981 | -3 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 | 979 | -1 |  | 985 | -3 |  | 988 | -3 |  | 990 | -4 |  | 993 | -3 |  | 989 | -2 |  | 987 | -1 |  |
| 03 | 981 | 0 |  | 984 | -2 |  | 989 | 0 |  | 990 | -1 |  | 992 | 0 |  | 988 | -1 |  | 987 | 1 |  |
| 06 | 982 | 0 |  | 985 | 1 |  | 989 | 0 |  | 990 | 1 |  | 992 | -1 |  | 988 | -2 |  | 986 | 0 |  |
| 09 | 984 | -1 |  | 986 | -1 |  | 990 | -1 |  | 990 | -1 |  | 991 | -3 |  | 988 | -4 |  | 986 | -1 |  |
| 12 | 985 | -3 |  | 986 | -4 |  | 990 | -3 |  | 990 | -4 |  | 991 | -5 |  | 989 | -5 |  | 987 | -6 |  |
| 15 | 984 | -6 |  | 987 | -6 |  | 989 | -6 |  | 991 | -8 |  | 990 | -5 |  | 988 | -5 |  | 988 | -6 |  |
| 18 | 984 | -6 |  | 987 | -6 |  | 988 | -7 |  | 992 | -8 |  | 990 | -4 |  | 988 | -4 |  | 988 | -7 |  |
| 21 | 985 | -4 |  | 987 | -5 |  | 989 | -5 |  | 992 | -6 |  | 990 | -3 |  | 988 | -4 |  | 988 | -5 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 988 | -3 |  | 993 | -5 |  | 988 | -6 |  | 985 | -4 |  | 976 | -8 |  | 982 | -6 |  | 988 | -5 |  |
| 03 | 988 | -1 |  | 992 | -3 |  | 988 | -4 |  | 982 | -5 |  | 976 | -6 |  | 982 | -6 |  | 987 | -2 |  |
| 06 | 989 | -1 |  | 991 | -3 |  | 988 | -4 |  | 982 | -5 |  | 978 | -5 |  | 983 | -3 |  | 987 | -1 |  |
| 09 | 990 | 0 |  | 990 | -4 |  | 988 | -6 |  | 982 | -5 |  | 978 | -6 |  | 983 | -6 |  | 987 | -5 |  |
| 12 | 991 | -4 |  | 989 | -6 |  | 988 | -6 |  | 981 | -6 |  | 980 | -8 |  | 984 | -8 |  | 987 | -6 |  |
| 15 | 992 | -7 |  | 990 | -8 |  | 987 | -7 |  | 981 | -8 |  | 980 | -9 |  | 985 | -10 |  | 987 | -7 |  |
| 18 | 992 | -7 |  | 989 | -8 |  | 986 | -5 |  | 979 | -8 |  | 981 | -11 |  | 986 | -10 |  | 987 | -7 |  |
| 21 | 992 | -6 |  | 989 | -8 |  | 985 | -3 |  | 979 | -7 |  | 981 | -8 |  | 987 | -9 |  | 987 | -7 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 986 | -7 |  | 986 | -6 |  | 992 | -6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 986 | -6 |  | 987 | -6 |  | 991 | -4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 986 | -5 |  | 990 | -5 |  | 992 | -4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 986 | -6 |  | 992 | -5 |  | 993 | -5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 986 | -7 |  | 991 | -7 |  | 993 | -7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 986 | -9 |  | 991 | -8 |  | 993 | -8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 986 | -8 |  | 990 | -9 |  | 993 | -8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 986 | -8 |  | 992 | -8 |  | 993 | -7 |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-3.9$ STD DEV $=2.8$ MAX $=2.8$ AT 530 GMT ON DAY 2 MIN $=-10.9$ AT 1710 GMT ON DAY 26
* THETA (K) * MEAN $=270.49$
* PRESSURE (MB) * MEAN $=984.6$ STD DEV $=4.4$ MAX $=994.2$ AT 1410 GMT ON DAY 31 MIN $=975.3$ AT 110 GMT ON DAY 26
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT O GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

 PERCENT




MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-12.0$ Std dev $=3.7$ maX $=-3.1$ at 630 GmT ON dAY 3 MIN $=-21.9$ At 1900 GMt ON dAY 28
* theta (K) * MEAN $=262.28$
* PRESSURE (MB) * MEAN $=984.8$ STD DEV $=5.2$ MAX $=996.9$ at 1650 GMT ON DAY 2 MIN $=968.2$ AT 1720 GMT ON DAY 28 * $\operatorname{WINDS}(M / S) *$ MEAN $=10.4 \mathrm{STD}$ DEV $=4.6$ RESULTANT $=10.1 \mathrm{fROM} 283$. CONSTANCY $=0.97 \mathrm{MAX}=31.6$ FROM 284. AT 1720 GMT DAY 28 * MISSING 3-hourly observations * temperature: $1.3 \%$ pressure: $1.3 \%$ WINDS: $32.1 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 3 & 6 & 34 & 51 & 4 & 0\end{array}$

MAR 97
HR PP TT WV DD DAY 1
$\begin{array}{llll}00 & 969 & -21 & 25 \\ 284\end{array}$
$\begin{array}{llll}03 & 969 & -20 & 27 \\ 280\end{array}$
$\begin{array}{llll}06 & 971 & -19 & 23 \\ 284\end{array}$
$09 \quad 969-2129284$
$\begin{array}{lllll}12 & 970 & -22 & 26 & 281\end{array}$
$\begin{array}{llll}15 & 968 & -22 & 39 \\ 284\end{array}$
$\begin{array}{lllll}18 & 972 & -23 & 27 & 278\end{array}$

| 21 | 975 | -22 | 34 |
| :--- | :--- | :--- | :--- | DAY 8

$\begin{array}{lllll}00 & 973 & -19 & 16 & 302\end{array}$
$\begin{array}{llllll}03 & 974 & -18 & 13 & 295\end{array}$
06 974-17 13285
09 975-19 6292
$\begin{array}{llll}12 & 976 & -19 & 3 \\ 274\end{array}$
$\begin{array}{llll}15 & 976 & -20 & 7 \\ 287\end{array}$
$\begin{array}{llll}18 & 976 & -21 & 978\end{array}$
$\begin{array}{llll}21 & 978 & -21 & 794\end{array}$ DAY 15
$00 \quad 980-20 \quad 9281$
$\begin{array}{llll}03 & 981 & -19 & 987\end{array}$
$\begin{array}{llll}06 & 982 & -18 & 7 \\ 290\end{array}$
$\begin{array}{lllll}09 & 983 & -21 & 8 & 302\end{array}$
$\begin{array}{lllll}12 & 983 & -22 & 10 & 311\end{array}$
$\begin{array}{lllll}15 & 981 & -22 & 13 & 290\end{array}$
$\begin{array}{lllll}18 & 982 & -21 & 10 & 295\end{array}$
$\begin{array}{ll}21 & 982-2113290\end{array}$ DAY 22
$00 \quad 980$-26 20288
$\begin{array}{lllll}03 & 981 & -25 & 16 & 294\end{array}$
$\begin{array}{lllll}06 & 982 & -26 & 13 & 301\end{array}$
$\begin{array}{lllll}09 & 983 & -26 & 10 & 284\end{array}$
$\begin{array}{llllll}12 & 984 & -27 & 10 & 295\end{array}$
$\begin{array}{lllll}15 & 984 & -26 & 10 & 290\end{array}$
$\begin{array}{llllll}18 & 985 & -26 & 13 & 298\end{array}$
$21 \quad 986$-26 12291 DAY 29
$00 \quad 955-3123290$
$\begin{array}{lllll}03 & 953 & -28 & 18 & 294\end{array}$
$06 \quad 950-2827278$
$09 \quad 951$-28 21283
$12 \quad 952-2823294$
$\begin{array}{lllll}15 & 954 & -27 & 14 & 292\end{array}$
$\begin{array}{llll}18 & 952 & -26 & 23 \\ 294\end{array}$
$\begin{array}{llll}21 & 955 & -26 & 11 \\ 301\end{array}$

PP TT WV DD PP TT WV DD DAY 2
975-22 34280
977-20 25284
978-19 25280
$981-2021284$
984-20 26280
986-20 20284
986-19 $16 \quad 288$
987-17 15278 DAY 9
$\begin{array}{lll}978 & -18 & 9 \\ 287\end{array}$
$978-1610290$
978-17 6271
$977-184285$
976-19 10298
973-18 6290
969-13 15142
971 - 1411150 DAY 16
981-19 11291
$\begin{array}{llll}980 & -17 & 10 & 281\end{array}$
$\begin{array}{llll}979 & -17 & 8 & 295\end{array}$
977 -17 12292
976-19 12301
973-19 16297
$973-2018290$
972-18 23287 DAY 23
986-24 13290
987-22 11290
987-22 13291
988 -23 10283
$\begin{array}{llll}988 & -24 & 15 & 287\end{array}$
987-24 17284
$989-2415290$
989-23 17280 DAY 30
956-22 6311
960-21 15292
$\begin{array}{lll}963 & -23 & 7290\end{array}$
965-23 10299
$\begin{array}{llll}965 & -24 & 10 & 297\end{array}$
965-23 13299
965-23 12298
$\begin{array}{llll}966 & -23 & 10 & 301\end{array}$
day 3
981-15 30283
982-13 30276
981-11 19285
980-12 23284
979-13 22281
$979-14 \quad 23278$
978-15 26281
976-15 20277 DAY 10
975-14 6197
976-16 7211
$\begin{array}{llll}977 & -15 & 6 & 232\end{array}$
977-16 1291
975-15 6294
974-17 2239
974-17-5 290
971-19 15280 DAY 17
974-18 17288
975-17 17290
976-17 11287
$975-2015 \quad 290$
976-20 13290
975-20 17294
975-19 16281
976-18 16288 DAY 24
988-22 25285
987-19 27278
987-19 24298
988-19 19285
987-19 26283
988-18 28283
989-19 16269
991-18 19290 DAY 31
967-22 9299
966-21 10292
$\begin{array}{lll}967 & -22 & 7283\end{array}$
$\begin{array}{llll}969 & -24 & 8 & 288\end{array}$
970-24 11285
971-24 10287
973-24 $12 \quad 295$
974-25 10301

PP TT WV DD PP TT WV DD PP TT WV DD DAY 5
973-14 13284
972-12 11288
972-13 13278
973-15 14280
$973-1610283$
$\begin{array}{llll}973 & -17 & 9 & 294\end{array}$
971-18 $15 \quad 266$
973-17 14277 DAY 12
$965-2120292$
$964-2014290$
963-20 14278
962-21 $16 \quad 290$
$961-2323291$
960-24 14291
$959-2418280$
958-23 20283
DAY 19
981-17 $15 \quad 283$ 980-17 13277 $\begin{array}{llll}980 & -20 & 17 & 273\end{array}$ $980-2220276$ 980-22 15276 $981-2415 \quad 261$ 982-26 16271 $982-26 \quad 15 \quad 277$ DAY 26
994-19 2231 993-18 2260 990-19 13260 $989-1913270$
987-19 $18 \quad 278$
988-19 11266
987-17 6294
986-17 3330

PP TT WV DD DAY 7
977-24 15285
976-22 13290
975-22 12281
975-22 14295
974-22 14287
974-22 14291
972-22 17299
973-20 15299 DAY 14
960-18 28278
963-17 18287
966-17 17291
965-19 16276
969-20 16281
972-21 12269
974-22 12267
978-22 10280
DAY 21
978-26 12276
980-24 $8 \quad 273$
$979-25 \quad 13 \quad 277$
979-26 13280
978-27 16291
$977-2823290$
978-28 21280
977 -28 25283
DAY 28
970-23 18278
968 -24 20283
962-28 24284
$963-3425273$
$958-3434280$
$960-3425277$
$962-3326277$
956-32 $30 \quad 292$

* temperature ( $C$ ) * mean $=-20.4$ Std dev $=4.2$ max $=-10.1$ at 510 gmt on day 4 min $=-35.1$ at 1250 gmt on day 28
* theta (K) * MEAN $=254.56$
* PRESSURE (MB) * MEAN $=975.0$ STD DEV $=9.5$ MAX $=994.7$ at 1140 GMT ON DAY 25 MIN $=950.0$ AT 630 GMT ON DAY 29 * WINDS (M/S) * MEAN $=15.2$ STD DEV $=7.0$ RESULTANT $=14.8$ fROM 283. CONSTANCY $=0.97$ MAX $=43.0$ FROM 285. AT 1320 GMT DAY 28 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ \text { PERCENT: } & 2 & 3 & 5 & 5 & 7 & 10 & 15 & 13 & 11 & 5 & 14 & 7 & 2 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

STATION : 8905 MANUELA (INEX IS)
APR 97
HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 972 & -24 & 12316\end{array}$ $\begin{array}{lllll}03 & 967 & -23 & 21 & 294\end{array}$
$\begin{array}{lllll}06 & 962 & -26 & 23 & 281\end{array}$
$\begin{array}{lllll}09 & 962 & -26 & 28 & 283\end{array}$
$\begin{array}{lllll}12 & 963 & -23 & 31 & 287\end{array}$
$\begin{array}{lllll}15 & 966 & -24 & 24 & 287\end{array}$
$\begin{array}{lllll}18 & 967 & -26 & 33 & 276\end{array}$
$21 \quad 970-27 \quad 23 \quad 283$ DAY 8
$\begin{array}{lllll}00 & 968 & -20 & 16 & 304\end{array}$
$\begin{array}{lllll}03 & 971 & -20 & 8 & 299\end{array}$
$\begin{array}{lllll}06 & 974 & -21 & 6 & 267\end{array}$
$\begin{array}{llll}09 & 977 & -21 & 7298\end{array}$

| 12 | 978 | -20 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}15 & 980 & -21 & 7 & 291\end{array}$
$\begin{array}{lllll}18 & 981 & -21 & 6 & 291\end{array}$
$\begin{array}{llll}21 & 984 & -21 & 269\end{array}$ DAY 15
$\begin{array}{lllll}00 & 978 & -31 & 22 & 297\end{array}$
$\begin{array}{llllll}03 & 978 & -31 & 23 & 290\end{array}$
$\begin{array}{lllll}06 & 979 & -31 & 20 & 285\end{array}$
$09 \quad 981$-32 23298
$\begin{array}{lllll}12 & 984 & -32 & 15 & 285\end{array}$
$\begin{array}{lllll}15 & 986 & -32 & 21 & 295\end{array}$
$\begin{array}{lllll}18 & 988 & -31 & 15 & 295\end{array}$
$\begin{array}{lllll}21 & 990 & -32 & 14 & 295\end{array}$ DAY 22
$\begin{array}{lllll}00 & 991 & -21 & 14 & 285\end{array}$
$\begin{array}{lllll}03 & 991 & -21 & 23 & 291\end{array}$
$\begin{array}{lllll}06 & 992 & -21 & 17 & 287\end{array}$
$\begin{array}{llll}09 & 990 & -20 & 26 \\ 276\end{array}$
$\begin{array}{lllll}12 & 991 & -21 & 25 & 278\end{array}$
$\begin{array}{lllll}15 & 991 & -20 & 11 & 288\end{array}$
$\begin{array}{lllll}18 & 989 & -21 & 17 & 283\end{array}$
$\begin{array}{lllll}21 & 987 & -21 & 17 & 269\end{array}$ DAY 29
$\begin{array}{lllll}00 & 975 & -27 & 14 & 299\end{array}$
$\begin{array}{lllll}03 & 972 & -25 & 18 & 287\end{array}$
$\begin{array}{lllll}06 & 972 & -26 & 14 & 277\end{array}$
$\begin{array}{lllll}09 & 972 & -26 & 16 & 271\end{array}$
$\begin{array}{lllll}12 & 975 & -30 & 16 & 271\end{array}$
$\begin{array}{lllll}15 & 976 & -33 & 22 & 277\end{array}$
$\begin{array}{lllll}18 & 978 & -34 & 19 & 284\end{array}$

PP TT VV DD PP TT VV DD DAY 2
972-26 21284
972-24 22291
971 -24-20 295
$\begin{array}{lll}974 & -25 & 17 \\ 292\end{array}$
975 -27 23269
$\begin{array}{llll}977 & -29 & 18 & 280\end{array}$
$978-2921292$
$\begin{array}{lll}977 & -28 \quad 18 & 295\end{array}$ DAY 9
985-22 1231 $\begin{array}{llll}985 & -22 & 1271\end{array}$ 985-21 2280
984-21 4292

| 984 | -20 | 4 |
| :--- | :--- | :--- |

$\begin{array}{llll}983 & -21 & 8 & 297\end{array}$
$\begin{array}{llll}982 & -22 & 5 & 295\end{array}$
$\begin{array}{llll}980 & -23 & 7 & 287\end{array}$ DAY 16
991 -32 8318 $991-31 \quad 7301$
$991-31 \quad 8305$
$992-30 \quad 8306$
$\begin{array}{llll}992 & -30 \quad 5 & 306\end{array}$
$\begin{array}{llll}992 & -28 & 13 & 301\end{array}$
$\begin{array}{llll}992 & -28 & 14 & 301\end{array}$
$994-28 \quad 12290$ DAY 23
$\begin{array}{llll}989 & -23 & 7242\end{array}$ $\begin{array}{llll}987 & -26 & 2 & 194\end{array}$ $987-27 \quad 6219$ $\begin{array}{llll}984 & -22 & 19 & 261\end{array}$ $\begin{array}{llll}985 & -22 & 16 & 269\end{array}$
985-22 20270
$\begin{array}{llll}987 & -23 & 11 & 276\end{array}$
$\begin{array}{llll}988 & -25 & 11 & 250\end{array}$ DAY 30
$\begin{array}{llll}979 & -34 & 13 & 283\end{array}$
$\begin{array}{lllll}979 & -34 & 14 & 280\end{array}$ $979-35 \quad 5301$ $\begin{array}{llll}978 & -34 & 8 & 284\end{array}$ $\begin{array}{llll}976 & -33 & 19 & 281\end{array}$
$\begin{array}{llll}978 & -33 & 14 & 299\end{array}$
$\begin{array}{llll}978 & -34 & 25 & 297\end{array}$
$\begin{array}{lllllllll}21 & 979 & -34 & 16 & 288 & 979 & -34 & 12 & 302\end{array}$
LAT : 74.95S LONG : 163.69E ELEVATION : 80 M

PP TT WV DAY 4
982-22 27290
985-22 13280
984-23 12287
984-2314 295
$\begin{array}{lll}983 & -2318278\end{array}$
980-23 16281
981-22 17278
980-23 20290
DAY 11
975-28 16263
$973-2818277$
972-30 22276
974-31 19280
$\begin{array}{lll}974 & -3215 & 274\end{array}$
$974-3214273$
$\begin{array}{llll}973 & -32 & 10 & 278\end{array}$
$974-3310 \quad 278$ DAY 18
1001-22 6301
$\begin{array}{lll}1002 & -22 & 7285\end{array}$
1004-23 3288
1006-22 2181
1008-21 1188
1008-22 1190
1009-23 0
1010-23 1273 DAY 25
978 -33 27280
981-33 19269
$\begin{array}{lllll}982 & -34 & 26 & 273\end{array}$
985-35 23280
$\begin{array}{llll}986 & -36 & 25 & 278\end{array}$
$983-3630278$
981-35 24290
$977-3429295$


PP TT VV DD DAY 6
960-22 28295
968 -21 10291
973-20 9294
971-20 16291
973-20 11306
972-21 21308
971-21 18312
973-19 13301
DAY 13
977-31 18294
$976-3116292$
$977-3117290$
$977-3117294$
$976-3123291$
$976-32 \quad 20291$
$977-3316 \quad 280$
$977-3317281$ DAY 20
1005-18 0 0
1004-18 0
1003-18 0
1002-19 1318
1001-18 14
999-19 10294
997-18 14291
998-16 13321
DAY 27
$\begin{array}{llll}974 & -31 & 18 & 285\end{array}$
972-32 24288
972-33 18284
$\begin{array}{llll}975 & -34 & 17 & 287\end{array}$
$975-3416281$
$975-3315283$
977-32 17290
$978-3215292$

PP TT VV DD DAY 7
972-17 13298 970-17 15299
968-18 16290
967-19 13294
966 -20 17287
965 -21 20283
$966-2123295$
968-21 11287 DAY 14
977-34 21288
977 -34 22295
977 -33 18292
$\begin{array}{llll}978 & -33 & 13 & 301\end{array}$
975 -32 21292
975-32 21292
$976-3224292$
$976-3125294$
DAY 21
997-16 10280
$\begin{array}{llll}998 & -17 & 0 & 0\end{array}$
998-20 2297
996-18 12292
995-18 15299
992-18 26295
991 -20 23290
$993-2122297$
DAY 28
$\begin{array}{llll}978 & -32 & 18 & 295\end{array}$
$980-3313298$
980-32 18298
$\begin{array}{llll}983 & -34 & 10 & 309\end{array}$
982-33 12292
980-29 16297
981-29 12302
$979-28 \quad 19301$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-26.3$ std dev $=5.3$ max $=-15.2$ at 2120 GMt on day 20 min $=-35.9$ at 1200 GMt on day 25
* theta (K) * MEAN $=248.13$
* PRESSURE (MB) * MEAN $=981.8$ StD deV $=11.1$ max $=1010.4$ at 2320 GMT ON day 18 min $=959.2$ at 20 GMt ON day 6
* WINDS (M/S) * MEAN $=14.7$ STD DEV $=7.6$ RESULTANT $=14.4$ FROM 287. CONSTANCY $=0.98$ MAX $=36.3$ FROM 273. AT 550 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{lllllllllllllllllllllllllllll} \\ \text { PERCENT: } & 10 & 3 & 4 & 5 & 3 & 6 & 9 & 13 & 10 & 9 & 19 & 7 & 1 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 1 & 30 & 58 & 6 & 0\end{array}$

HR PP TT VV DD
$\begin{array}{lllll}00 & 979 & -34 & 13 & 294\end{array}$
$\begin{array}{lllll}03 & 980 & -34 & 13 & 297\end{array}$
$\begin{array}{lllll}06 & 979 & -35 & 18 & 134\end{array}$
$\begin{array}{lllll}09 & 979 & -34 & 23 & 134\end{array}$
$\begin{array}{lllll}12 & 979 & -33 & 15 & 295\end{array}$
$\begin{array}{lllll}15 & 978 & -33 & 12 & 314\end{array}$
$\begin{array}{lllll}18 & 976 & -32 & 12 & 299\end{array}$
$21 \quad 974$-31 15299 DAY 8
$00 \quad 981$-29 20290
$\begin{array}{llll}03 & 979 & -29 & 22 \\ 288\end{array}$
$\begin{array}{lllll}06 & 981 & -30 & 14 & 297\end{array}$
$09 \quad 979-2921304$

| 12 | 977 | -28 | 22 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}15 & 978 & -28 & 18 & 294\end{array}$
$\begin{array}{lllll}18 & 974 & -29 & 25 & 285\end{array}$
$21 \quad 971$-28 $26 \quad 276$ DAY 15
$\begin{array}{lllll}00 & 980 & -36 & 19 & 291\end{array}$
$\begin{array}{lllll}03 & 979 & -37 & 23 & 297\end{array}$
$06 \quad 977 \quad-36 \quad 27 \quad 302$
$09 \quad 977 \quad-34 \quad 20 \quad 290$
$\begin{array}{lllll}12 & 975 & -34 & 16 & 301\end{array}$
$\begin{array}{lllll}15 & 972 & -32 & 17 & 299\end{array}$
$\begin{array}{lllll}18 & 968 & -30 & 25 & 292\end{array}$
$21 \quad 963-2926295$ DAY 22
$00 \quad 975$-29 22287
$03 \quad 974-2818294$
$06 \quad 974-2716295$
$09 \quad 973-26 \quad 10309$
$\begin{array}{lllll}12 & 968 & -24 & 19 & 291\end{array}$
$\begin{array}{llll}15 & 967 & -23 & 20 \\ 27\end{array}$
$\begin{array}{llll}18 & 964 & -23 & 24 \\ 278\end{array}$
$21 \quad 966$-26 14269 DAY 29
$\begin{array}{lllll}00 & 959 & -18 & 34 & 280\end{array}$
$\begin{array}{lllll}03 & 961 & -18 & 22 & 274\end{array}$
$\begin{array}{llll}06 & 961 & -18 & 23\end{array} 278$
$09 \quad 959-16 \quad 23287$
$\begin{array}{lllll}12 & 952 & -15 & 24 & 281\end{array}$
$15 \quad 949-1424290$
18 952-15 30291
$\begin{array}{llll}21 & 953-17 & 22 & 274\end{array}$

PP TT VV DD PP TT VV DD DAY 2
971 -30 15301
$\begin{array}{lllll}968 & -29 & 18 & 298\end{array}$
963-28 25283
961-30 $23 \quad 298$
960-29 22297
$960-3016301$
959-30 14305
958-29 14301 DAY 9
968-26 23288 969-26 20287 $\begin{array}{llll}967 & -25 & 15 & 287\end{array}$
$966-26 \quad 13 \quad 291$
967-26 $12 \quad 287$
$\begin{array}{llll}966 & -26 & 15 & 284\end{array}$
$964-26 \quad 17 \quad 291$
$966-26 \quad 18295$ DAY 16
$960-28 \quad 23297$
$960-26 \quad 19288$
$955-25 \quad 23294$
$\begin{array}{llll}953 & -25 & 19 & 298\end{array}$
951 -26 16301
$950-2316301$
948 -21 17301
946 -21 14299 DAY 23
$964-2913270$
$965-3214267$
963 -34 20267
$964-3518276$
965 -35 $15 \quad 283$
$965-3418290$
$\begin{array}{lllll}968 & -34 & 13 & 306\end{array}$
$\begin{array}{lllll}968 & -34 & 12 & 301\end{array}$ DAY 30
$\begin{array}{llll}955 & -18 & 16 & 287\end{array}$
$\begin{array}{llll}958 & -19 & 17 & 267\end{array}$
961-19 10278
$\begin{array}{llll}964 & -22 & 12 & 277\end{array}$
$\begin{array}{llll}966 & -25 & 11 & 280\end{array}$
$\begin{array}{llll}966 & -27 & 16 & 277\end{array}$
967 -30 20288

DAY 3
957-27 16291
958 -25 19302
959 -25 14301
961-22 18290
963-25 11283
962-25 20287
959-24 18287
959-25 22290 DAY 10
$\begin{array}{llll}966 & -27 & 14 & 270\end{array}$
$967-2710278$
$\begin{array}{llll}967 & -28 & 10 & 277\end{array}$
967-28 $15 \quad 284$
$\begin{array}{llll}969 & -29 & 14 \quad 283\end{array}$
$970-30 \quad 15 \quad 291$
970-32 14290
$970-3314284$ DAY 17
$\begin{array}{llll}951 & -19 & 12 & 299\end{array}$
953-18 7295
959-13 8134
967-14 6132
970-16 4247
$972-204290$
975-18 4298
976-20 8 295 DAY 24

969-32 13302
$969-31 \quad 13312$
$970-2914304$
971-27 12304
$970-26 \quad 12 \quad 304$
$971-26 \quad 10 \quad 285$
$973-2913280$
$\begin{array}{llll}975 & -30 & 13 & 291\end{array}$ DAY 31
970-32 22284
970-32 20294
972 -31 13281
$\begin{array}{llll}973 & -29 & 17 & 292\end{array}$
974 -28 14291
$\begin{array}{llll}975 & -28 & 11 & 299\end{array}$
$974-2616299$
976 -27 20291

PP TT VV DD PP TT VV DD PP TT VV DD DAY 4
957 -26 26291
957 -27 20277
957 -28 20290
956-29 25290
958 -29 20295
$955-2935261$
960 -28 24290
$960-2718309$
DAY 11
971 -35 21281
$\begin{array}{llll}971 & -36 & 15 & 267\end{array}$

$973-3613284$
$973-3715292$
$972-3614291$
$\begin{array}{llll}974 & -37 & 9 & 301\end{array}$
973 -37 14294 DAY 18
979-22 10305
980-23 12291
978 -24 13290
974-24 18294
971 -23 13295
$969-23 \quad 6311$
$966-2412311$
965 -23 9319
DAY 25
$974-3022290$
977 -29 14304
$974-2825291$
$972-2826294$
$974-2723295$
$975-28 \quad 20 \quad 290$
$974-2916291$
972 -29 24288

DAY 5
958-26 20297
959 -25 24290
962-26 18290
965-27 18283
964-27 20295
965-27 17295
963-28 21291
966 -28 17291
DAY 12
$\begin{array}{llll}973 & -36 & 10 & 267\end{array}$
$\begin{array}{lllll}974 & -36 & 11 & 297\end{array}$
$\begin{array}{llll}974 & -35 & 12 & 298\end{array}$
$\begin{array}{llll}974 & -35 & 12 & 297\end{array}$
$\begin{array}{lllll}975 & -35 & 14 & 298\end{array}$
$\begin{array}{lllll}975 & -35 & 14 & 301\end{array}$
$\begin{array}{lllll}976 & -36 & 11 & 301\end{array}$
$\begin{array}{llll}978 & -36 & 11 & 298\end{array}$ DAY 19
963-23 18312
963-22 16302
963-22 16292
965 -23 13292
966-25 27292
968 -27 27284
$970-2721292$
972 -26 16295
DAY 26
971-25 24295
968 -22 27288
970 -23 29274
$972-2323276$
975 -23 20288
976-22 21284
977-22 19284
984-22 $17 \quad 290$

DAY 6
966-27 18287
967-27 13302
969 -26 10301
969 -27 10297
969 -26 13304
970 -27 14292
$970-2816292$
970 -31 14281
DAY 13
979 -36 10295
$979-3614306$
$979-3515297$
$979-3515291$
$\begin{array}{lll}981 & -34 & 12 \\ 288\end{array}$
$\begin{array}{llll}982 & -35 & 7 & 287\end{array}$
$\begin{array}{llll}982 & -35 & 10 & 280\end{array}$
983 -34 9288 DAY 20
974-25 12302
975 -25 10299
976-24 2311
977 -20 3302
977 -20 4292
977 -20 0
978 -20 2298
981-22 1207
DAY 27
987-23 20277
987 -22 15284
987-21 20292
$986-2019291$
985 -20 25281
$985-2020273$
986 -20 23280
985-19 15278

PP TT WV DD DAY 7
968-31 15288 969 -31 23280

969 -29 19292
972 -29 20291 974 -29 19290 974 -29 25297
975 -29 19276
977 -29 23284
DAY 14
983 -34 11299
$983-3410294$
984-33 14290
$984-3412292$
$984-3416290$
$983-3419290$
$\begin{array}{llll}982 & -35 & 17 & 291\end{array}$
981 -36 17295 DAY 21
984-22 3250 $\begin{array}{llll}984 & -24 & 7 & 269\end{array}$ $982-2515274$ 981 -26 17283 981 -28 17274 980 -29 15290 978 -29 17290 976 -30 15280

DAY 28
980-19 26290
978-18 25287
975 -17 17287
972 -16 20292
968 -17 36285
964-16 21283
962-15 20280
$960-1825290$

MONTHLY SUMMARY

* temperature ( C ) * MEAN $=-27.1$ STD DEV $=5.6$ MAX $=-12.5$ AT 540 GMT ON DAY 17 MIN $=-38.0$ AT 1820 GMT ON DAY 11
* THETA (K) * MEAN $=248.21$
* PRESSURE (MB) * MEAN $=970.1$ STD DEV $=8.6$ MAX $=987.8$ AT 140 GMT ON DAY 27 MIN $=946.1$ AT 2140 GMT ON DAY 16
* WINDS (M/S) * MEAN $=16.7$ STD DEV $=5.9$ RESULTANT $=16.0$ FROM 289. CONSTANCY $=0.96$ MAX $=36.3$ FROM 285. AT 1200 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lccccccccccccccccc}\text { PERCENT: } & 2 & 2 & 1 & 2 & 4 & 10 & 11 & 16 & 12 & 13 & 22 & 5 & 1 & 0 & \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 1 & 18 & 71 & 8 & 0\end{array}$

STATION : 8905 MANUELA (INEX IS)
JUN 97
HR PP TT WV DD DAY 1
$00 \quad 977-2714288$
$\begin{array}{llll}03 & 979 & -28 & 9 \\ 291\end{array}$
$\begin{array}{lllll}06 & 980 & -27 & 10 & 297\end{array}$
$\begin{array}{lllll}09 & 982 & -27 & 8 & 304\end{array}$
$\begin{array}{llll}12 & 982 & -26 & 10 \\ 295\end{array}$
$\begin{array}{lllll}15 & 982 & -26 & 9 & 297\end{array}$
$\begin{array}{lllll}18 & 982 & -25 & 10 & 291\end{array}$
$\begin{array}{llll}21 & 982 & -24 & 7 \\ 299\end{array}$ DAY 8
$00 \quad 969-2316294$
$03-969-25 \quad 20291$
06 973-26 20295
$\begin{array}{lllll}09 & 974 & -24 & 17 & 292\end{array}$
$\begin{array}{llllll}12 & 973 & -25 & 18 & 291\end{array}$
$15 \quad 974$-24 21297
$\begin{array}{lllll}18 & 971 & -22 & 26 & 297\end{array}$
$\begin{array}{ll}21 & 972-2319 \\ 288\end{array}$ DAY 15
$00 \quad 974-2428299$
$\begin{array}{lllll}03 & 973 & -23 & 23 & 295\end{array}$
$06 \quad 975-23 \quad 23 \quad 294$
$\begin{array}{lllll}09 & 978 & -22 & 19 & 298\end{array}$
$\begin{array}{llll}12 & 981 & -22 & 8 \\ 284\end{array}$
$\begin{array}{lllll}15 & 985 & -23 & 4 & 222\end{array}$
$\begin{array}{lllll}18 & 988 & -25 & 4 & 222\end{array}$
$\begin{array}{llll}21 & 989 & -25 & 528\end{array}$ DAY 22
00 1002-18 11299
$031002-2014306$
$061005-1910298$
09 1006-16 14301
$\begin{array}{lllll}12 & 1005 & -16 & 14 & 297\end{array}$
$\begin{array}{lll}15 & 1003 & -17 \\ 17 & 301\end{array}$
$\begin{array}{lllll}18 & 1003 & -17 & 14 & 295\end{array}$
211003 -21 13294 DAY 29
$00 \quad 1000$-30 9294
$\begin{array}{lllll}03 & 999 & -30 & 11 & 297\end{array}$
$\begin{array}{llll}06 & 999 & -29 & 9 \\ 301\end{array}$
$\begin{array}{lllll}09 & 999 & -29 & 12306\end{array}$
$\begin{array}{lllll}12 & 999 & -29 & 8 & 301\end{array}$
$\begin{array}{lllll}15 & 997 & -29 & 15 & 292\end{array}$
$\begin{array}{llll}18 & 995 & -30 & 16 \\ 287\end{array}$
$\begin{array}{lllll}21 & 994 & -32 & 15 & 284\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{lll}982 & -24 & 7299\end{array}$
$\begin{array}{llll}981 & -23 & 11 & 305\end{array}$
$\begin{array}{llll}982 & -23 & 9 & 299\end{array}$
$\begin{array}{llll}983 & -22 & 10 & 308\end{array}$
985-22 8299
$\begin{array}{llll}986 & -22 & 10 & 314\end{array}$
$\begin{array}{llll}988 & -24 & 5 & 302\end{array}$
988-25 11278 DAY 9
$969-2420283$
$969-2418283$
966 -22 16278
965-22 15278
957-25 22278
956-27 31273
956-29 19285
$955-3127285$ DAY 16
$990-25 \quad 3 \quad 235$ $\begin{array}{lll}988 & -24 & 5 \\ 271\end{array}$ $986-2410 \quad 261$
$984-2414288$ $979-2215291$
$\begin{array}{lll}976 & -25 & 29 \\ 271\end{array}$
976 -26 22288 DAY 23
1002-22 13291
1000-21 12278
$995-20 \quad 26297$
$992-2126290$
$989-2125292$
987-22 24283
$982-2437294$
984-26 21281 DAY 30
992-32 17284
$\begin{array}{lllll}990 & -32 & 15 & 280\end{array}$
$\begin{array}{llll}988 & -31 & 19 & 285\end{array}$
$\begin{array}{llll}988 & -30 & 13 & 283\end{array}$
$\begin{array}{llll}986 & -30 & 24 & 271\end{array}$
985 -29 $18 \quad 287$
$985-3018288$
$984-30 \quad 23 \quad 294$

LAT : 74.95S LONG : 163.69E ELEVATION : 80 M
PP TT WV

PP IT WV DD DAY 5
980-20 26284
978-19 27284
974-19 22283
974-20 24277
$972-2126277$
975 -22 20281
975 -23 21290
$974-2420295$ DAY 12
972-20 11306
$971-2416284$
$971-2415287$
$971-2520295$
$971-2629291$
972-25 28299
$973-2319298$
$973-2320292$
DAY 19
969-12 17169
968-11 21159
972-11 20152
980-10 9134
983-10 11139
987-10 11141
990-12 4233
$991-12 \quad 4263$ DAY 26
998-28 12290
$998-2915284$
$998-3016294$
$998-3113288$
998-31 10287
997-30 13281
$\begin{array}{llll}996 & -32 & 18 & 278\end{array}$
$997-3213288$

PP TT WV DD DAY 6
976-23 19291
$975-2423285$
$973-242527$
977 -27 23295
979 -27 21291
981 -27 19271
983-30 20271
984-28 18278

## DAY 13

972-23 18287
972 -23 23291
$970-2416283$
965-26 22292
$965-2419297$
$963-2426295$
$961-2426291$
961-25 24294 day 20
990-13 4224
991-15 4264
987-1716 294
992-17 8283
993-18 7290
996-16 9 278
$999-16 \quad 8 \quad 283$
1000-16 9 294
DAY 27
997-33 16285
$998-3310 \quad 277$
$997-3311284$
$998-3415 \quad 281$
$999-3412284$
1001 -34 12288
1001-35 13284
1002 -35 $10 \quad 290$

PP TT WV DD DAY 7
976-27 29280
$\begin{array}{lll}976 & -26 & 25 \\ 273\end{array}$
$975-26 \quad 25 \quad 280$
972-25 27281
$969-24 \quad 27301$
$965-2426276$
965-23 24290
967 -23 20290 DAY 14
962-26 25292
$967-26 \quad 15 \quad 277$
$969-2719280$
$970-2723294$
969-28 25290
$970-2822281$
$969-2628280$
$974-2423291$
DAY 21
998-15 11299
995-15 12302
$995-1510308$
992-17 16305
$992-1717314$
$992-18 \quad 20 \quad 301$
$994-1916299$
997-18 11301
DAY 28
1002-34 11297
1001-33 11295
$\begin{array}{llll}1000 & -33 & 10 & 295\end{array}$
$999-3213304$
$999-32 \quad 10301$
$1000-317301$
$999-30 \quad 9297$
$1000-30 \quad 7298$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-24.7$ Std dev $=5.1$ maX $=-9.5$ at 1100 GMT ON day 19 min $=-35.1$ at 1840 GMt ON dAY 27
* theta (K) * MEAN $=249.70$
* PRESSURE (MB) * MEAN $=983.1$ STD DEV $=12.0$ MAX $=1005.9$ AT 720 GMT ON DAY 22 MIN $=954.3$ AT 1850 GMT ON DAY 9
$*$ WINDS (M/S) * MEAN $=16.2$ STD DEV $=6.4$ RESULTANT $=15.3$ FROM 288 . CONSTANCY $=0.94$ MAX $=37.0$ FROM 280. AT 1440 GMT DAY 9
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 3 & 0 & 20 & 66 & 9 & 0\end{array}$

HR PP TT VV DD DAY 1
$00 \quad 983-3120291$
$\begin{array}{llllll}03 & 982 & -31 & 23 & 284\end{array}$
$\begin{array}{lllll}06 & 980 & -32 & 17 & 277\end{array}$
$\begin{array}{llllll}09 & 981 & -32 & 18 & 290\end{array}$
$\begin{array}{llllll}12 & 980 & -32 & 17 & 276\end{array}$
$\begin{array}{llllll}15 & 978 & -32 & 21 & 290\end{array}$
18 979-32 18280
$\begin{array}{lll}21 & 979 & -33 \\ 19 & 278\end{array}$ DAY 8
$00 \quad 966$-26 17305
$\begin{array}{llll}03 & 966 & -25 & 12 \\ 306\end{array}$
$\begin{array}{llllll}06 & 965 & -24 & 14 & 312\end{array}$
$\begin{array}{llll}09 & 967 & -23 & 12301\end{array}$
$\begin{array}{llll}12 & 969 & -25 & 13 \\ 297\end{array}$
$\begin{array}{lllll}15 & 971 & -26 & 11 & 288\end{array}$
$\begin{array}{lllll}18 & 971 & -28 & 12 & 285\end{array}$
$\begin{array}{llll}21 & 970 & -29 & 13 \\ 288\end{array}$ DAY 15
$\begin{array}{llll}00 & 963 & -32 & 21 \\ 295\end{array}$
$\begin{array}{lllll}03 & 965 & -32 & 13 & 301\end{array}$
$\begin{array}{llllll}06 & 966 & -32 & 19 & 295\end{array}$
$\begin{array}{lllll}09 & 968 & -32 & 18 & 292\end{array}$
$\begin{array}{lllll}12 & 971 & -33 & 8 & 306\end{array}$
$\begin{array}{lllll}15 & 972 & -33 & 12 & 298\end{array}$
$\begin{array}{llllll}18 & 974 & -31 & 16 & 295\end{array}$
$21 \quad 976$-33 21292 DAY 22
$\begin{array}{llll}00 & 982 & -35 & 5 \\ 273\end{array}$
$\begin{array}{lllll}03 & 981 & -34 & 8 & 288\end{array}$
$06 \quad 980-3511284$
09 979-35 11284
$12 \quad 976$-35 17288
$\begin{array}{llllll}15 & 977 & -35 & 14 & 288\end{array}$
$\begin{array}{llllll}18 & 976 & -34 & 19 & 285\end{array}$
$\begin{array}{llll}21 & 975 & -34 & 20 \\ 292\end{array}$ DAY 29
$00 \quad 986$-23 20284
03 987-21 20274
$\begin{array}{llll}06 & 987 & -17 & 16 \\ 277\end{array}$
$\begin{array}{lllll}09 & 983 & -15 & 18 & 274\end{array}$
$\begin{array}{lllll}12 & 979 & -18 & 14 & 245\end{array}$
$\begin{array}{llllll}15 & 976 & -16 & 10 & 228\end{array}$
$\begin{array}{lllll}18 & 973 & -12 & 5 & 46\end{array}$
$\begin{array}{llll}21 & 962 & -7 & 22 \\ 277\end{array}$

PP TT WV DD DAY 2
979 -35 17222
$\begin{array}{lllll}979 & -36 & 23 & 181\end{array}$
$\begin{array}{llll}979 & -36 & 22 & 263\end{array}$
$\begin{array}{llll}980 & -37 & 18 & 281\end{array}$
$\begin{array}{llll}981 & -37 & 25 & 284\end{array}$
980-38 24290 981 -38
982-36 15295 DAY 9
969 -30 16291
969-32 18283
$\begin{array}{llll}971 & -32 & 14 & 273\end{array}$
973 -32 18285
977 -30 15302
981 -31 10290
981 -30 10305
979 -30 16299 DAY 16
977-34 22295
$979-3520290$
$\begin{array}{lllll}980 & -34 & 15 & 277\end{array}$
$980-3418290$
$\begin{array}{llll}982 & -34 & 17 & 277\end{array}$
$983-3320284$
986 -33 20280
988-31 19295 DAY 23
975-33 16290
974 -32 11290
975-33 7287
976-31 0
975 -33 3254
975 -35 0
$\begin{array}{llll}975 & -34 & 8 & 290\end{array}$
977 -36 4278 DAY 30
963-10 18278
965-19 15252
965 -25 22269
966 -29 17276
963 -29 21281
$\begin{array}{llll}966 & -31 & 17 & 283\end{array}$
$\begin{array}{llll}965 & -31 & 18 & 283\end{array}$
$966-34 \quad 25 \quad 278$

PP TT WV DD DAY 3
$\begin{array}{llll}982 & -36 & 14308\end{array}$
$\begin{array}{llll}981 & -36 & 13 & 305\end{array}$
$\begin{array}{llll}980 & -33 & 13 & 305\end{array}$
977 -34 16299
975 -33 16305
$973-3118305$
$969-3016306$
967 -29 16294 DAY 10
978 -30 15302
976 -29 11292
972 -27 16280
970-29 11284
967 -28 15277
$963-2818278$
$960-2615284$
957 -28 15290 DAY 17
989-32 15292
$989-3012292$
988-30 12294
$\begin{array}{llll}987 & -30 & 13 & 295\end{array}$
$986-29 \quad 13 \quad 301$
$984-2915290$
983-29 14290
979 -28 22284 DAY 24
$\begin{array}{llll}978 & -38 & 1 & 264\end{array}$
$\begin{array}{llll}979 & -37 & 3 & 266\end{array}$
981 -36 4285
$\begin{array}{llll}981 & -35 & 5 & 288\end{array}$
$\begin{array}{llll}982 & -33 & 6 & 292\end{array}$
$\begin{array}{llll}981 & -32 & 8 & 292\end{array}$
$\begin{array}{llll}980 & -30 & 12305\end{array}$
980 -28 10309 DAY 31
969-35 20285
$\begin{array}{lll}971 & -36 & 23 \\ 271\end{array}$
$\begin{array}{llll}972 & -36 & 17 & 284\end{array}$
$\begin{array}{llll}975 & -36 & 8 & 277\end{array}$
$\begin{array}{llll}976 & -36 & 10 & 252\end{array}$
$\begin{array}{llll}979 & -36 & 7 & 271\end{array}$
$\begin{array}{llll}980 & -36 & 8 & 264\end{array}$
$\begin{array}{llll}982 & -36 & 10 & 278\end{array}$

PP TT WV DD PP TT WV DD PP TT WV DD DAY 4
966-27 22292
967-25 20299
$971-2624290$
$974-2721294$
977 -27 22288
982-28 20295
984-27 14292
984-27 18295
DAY 11
953-26 22278
$953-2620288$
949 -26 25292
946-28 23276
944-31 27250
950-32 21273
952-33 26281
954 -33 18281
DAY 18
977 -30 26287
976 -30 21285
973 -31 21283
972 -31 24284
972-32 22284
$\begin{array}{llll}972 & -32 & 26 & 280\end{array}$
$974-3215281$
976 -32 16288
DAY 25
980-26 10299
$\begin{array}{llll}981 & -26 & 8 & 297\end{array}$
$979-2510306$
978 -26 12305
978-28 12297
978 -27 12295
975-27 17291
971 -29 23287

$$
\text { DAY } 5
$$

985-27 20297
$\begin{array}{llll}985 & -26 & 15 & 299\end{array}$
985-26 12298
$983-2614298$
$\begin{array}{lll}981 & -2712 & 294\end{array}$
978 -28 16283
976-27 10283
975 -30 12281 DAY 12
963-34 15284
$970-3415 \quad 278$
976 -34 10277
980-35 $12 \quad 278$
$\begin{array}{llll}981 & -35 & 15 & 271\end{array}$
983-36 17276
982 -34 31276
983 -33 24267 DAY 19
976 -33 19284
978 - 3418290
978 -36 25277
$980-3718291$
$980-39 \quad 20 \quad 278$
$981-3922283$
983-39 15276
982-39 26284 DAY 26
971-30 18281
$971-2816288$
$972-26 \quad 17292$
972 -24 26302
971 -24 24281
972-24 26284
$977-2427291$
981-23 $25 \quad 277$

DAY 6
974 -31 16287
$974-3316290$
973 -32 19290
$973-3023297$
$\begin{array}{llll}977 & -31 & 8 & 301\end{array}$
978-30 11304
976 -29 11305
975 -28 9302 DAY 13
983-33 31278
989 -33 20273
$990 \quad-33 \quad 24276$
$\begin{array}{llll}986 & -31 & 25 & 284\end{array}$
983 -30 27274
982-31 33263
980 -31 23277
977 -30 20284 DAY 20
983-39 21281
982-37 16278
984 -35 21288
983 -33 21281
$\begin{array}{llll}983 & -32 & 17 & 287\end{array}$
983 -30 24284
984-29 17292
983 -30 19292 DAY 27
984-22 17273
986-20 18253
983-22 18257 983-20 14264 982-21 6257 980-18 248 976-22 21260 $979-2310292$

PP TT WV DD DAY 7
974 -26 14301
973 -28 16299
971 -29 15281
968 -28 19292
968 -29 18295
968 -28 19295
967 -28 15305
966 -28 19301 DAY 14
976-30 27287
973 -30 24292
$970-2927283$
$\begin{array}{llll}966 & -30 & 28 & 287\end{array}$
$\begin{array}{llll}967 & -31 & 19 & 288\end{array}$
$964-32 \quad 25 \quad 273$
962-32 27294 962-32 26298

DAY 21
982-29 17297
981-29 22288
982-29 16283
980 -29 19284
980 -30 15291
980 -31 9281
$\begin{array}{llll}980 & -32 & 8 & 283\end{array}$
$\begin{array}{llll}981 & -35 & 3 & 242\end{array}$

## DAY 28

980-25 16276
$979-2517290$
$\begin{array}{llll}982 & -25 & 7225\end{array}$
983-28 2271
981 -27 13266
978 -25 24277
$979-2426273$
$984-2419290$

* temperature (C) * mean $=-29.9$ STD dev $=5.0$ max $=-6.0$ at 2110 GMT ON DAY 29 MIN $=-39.2$ AT 1440 GMT ON DAY 19
* THETA (K) * MEAN $=244.95$
* PRESSURE (MB) * MEAN $=975.7$ STD DEV $=8.0$ MAX $=990.7$ AT 530 GMT ON DAY 13 MIN $=942.7$ AT 1340 GMT ON DAY 11
* WINDS (M/S) * MEAN $=16.6$ STD DEV $=6.1$ RESULTANT $=16.0$ FROM 285. CONSTANCY $=0.97$ MAX $=37.3$ FROM 277 . AT 1330 GMT DAY 13
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.4 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 18 -20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 601$ PERCENT: WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 4 & 29 & 57 & 7 & 0\end{array}$

AUG 97

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 983 & -37 & 16 & 274\end{array}$
$\begin{array}{lllll}03 & 986 & -37 & 13 & 281\end{array}$
$06 \quad 984-36 \quad 20 \quad 283$
$\begin{array}{lllll}09 & 982 & -34 & 16 & 277\end{array}$
$\begin{array}{lllll}12 & 979 & -34 & 24 & 276\end{array}$
$\begin{array}{lllll}15 & 978 & -32 & 20 & 287\end{array}$
$\begin{array}{lllll}18 & 974 & -31 & 20 & 288\end{array}$
$21 \quad 970-3122283$
DAY 8
00 965-30
$03 \quad 970$-30
06 970-29
09 964-29
12 965-31
$\begin{array}{ll}15 & 962-31\end{array}$
18 956-29
21 950-30
DAY 15
00 980-21
03 981-22
06 980-22
$09 \quad 979$-20
12 978-21

| 15 | 978 |
| :--- | :--- |

$18 \quad 975-24$
21 973-24
DAY 22
00 983-32
$\begin{array}{llll}03 & 984 & -32\end{array}$
$06 \quad 984-31$
09 985-32
$12 \quad 986$ - 31
$\begin{array}{lll}15 & 986 & -31\end{array}$
18 986-35
21 986-32
DAY 29
00 987-32
03 987-32
$06 \quad 987-34$
$\begin{array}{lll}09 & 987 & -33\end{array}$
$12 \quad 986$ - 33
$15 \quad 986-33$
$\begin{array}{lll}18 & 986 & -34\end{array}$
$21 \quad 985$ - 34

PP TT WV DD DAY 2
962-32 31278
957 -32 31280
$954-3242290$
952-32 34281
$\begin{array}{llll}954 & -32 & 37 & 280\end{array}$
$\begin{array}{lllll}963 & -34 & 16 & 283\end{array}$
$967-3725283$
969 -38 27287 DAY 9
952-32
948-33
951-32
952-30
954-29
961-26
964-28
967-28
DAY 16
972-27
969-28
967-29
965-28
964-30
963-30
963-30
967 -30
DAY 23
986-30
985-30
986-30
984-29
982-28
981-28
980-29
980-28
DAY 30
985-34
984-34
984-33
984-33
984-33
983-33
983-33
984-34
 DAY 3
966-39 25280
966-39 $43 \quad 278$
965-37 26285
$\begin{array}{llll}966 & -36 & 31 & 287\end{array}$
965-34 37277
$965-3126294$
963-27
959-23
DAY 10
971-29
976-30
978-30
977-32
972-31
962-28
955-28
957-27
DAY 17
965-29
967-29
968-28
971-28
974-29
976-28
977-28
978-29
DAY 24
979-28
978-29
976-29
978-31
979-32
977-35
978-35
979-35
DAY 31
984-36
984-29
983-31
983-33
981-29
981-28
978-28
977-27


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-30.3$ STD DEV $=4.4$ MAX $=-16.9$ AT 550 GMT ON DAY 11 MIN $=-39.9$ AT 1500 GMT ON DAY 4
* theta (K) * MEAN $=244.71$
* PRESSURE (MB) * MEAN $=973.8$ STD DEV $=8.6$ MAX $=987.5$ at 530 GMT ON DAY 29 MIN $=944.6$ AT 210 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $91.1 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* TEMPERATURE ( $C$ ) * MEAN $=-24.6$ STD DEV $=6.6$ MAX $=-6.4$ AT 450 GMT ON DAY 27 MIN $=-40.0$ at 310 GMT ON DAY 16
* theta (K) * mean $=250.25$
* PRESSURE (MB) * MEAN $=977.2$ STD DEV $=8.1$ MAX $=996.7$ AT 1900 GMT ON DAY 12 MIN $=955.0$ at 2200 GMT ON DAY 4
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 18 -20 $\quad 20-25 \quad 25-30 \quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

OCT


## DAY 4

978-16
979-15
979-15
978-16
978-16
978-18
977-19
977-18
DAY 11
971-20
973-15
972-17
973-17
976-16
978-16
978-16
978-15
DAY 18
980-19
979-19
979-19
979-21
979-21
980-21
980-23
980-22
DAY 25
972-18
971-16
972-15
972-16
971-17
971-19
970-20
970-19

* temperature ( $C$ ) * mean $=-16.9$ Std dev $=4.0$ maX $=-8.1$ at 2050 GMT ON DAY 23 MIN $=-27.4$ at 1 (30 GMt ON DAY 19
* theta (K) * MEAN $=258.17$
* PRESSURE (MB) * MEAN $=973.8$ STD DEV $=8.2$ MAX $=988.7$ at 940 GMT ON DAY 8 MIN $=952.4$ AT 1930 GMT ON DAY 23
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\begin{array}{ll}40-45 & 45-50 \\ 50-55 & 55-60 \\ 60+\end{array}$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{llllllllllllllll}0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* TEMPERATURE ( $C$ ) * MEAN $=-7.7$ STD DEV $=5.1$ MAX $=1.9$ AT 2300 GMT ON DAY 19 MIN $=-25.0$ at 1800 GMt ON DAY 3
* THETA (K) * MEAN $=266.62$
* PRESSURE (MB) * MEAN $=984.4$ STD DEV $=10.9$ MAX $=1001.7$ AT 2140 GMT ON DAY 23 MIN $=959.4$ AT 1510 GMT ON DAY 4
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: 100.0 \%
 $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \mathrm{N} & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \mathrm{S} & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ PERCENT

DEC 97
HR PP TT VV DD DAY 1
$00 \quad 994$-6
$03992-6$
$06991-6$
$09 \quad 990-8$
$12991-8$
15 989-10
18 988-11
$21990-8$
$00-999-6$
$\begin{array}{lll}03 & 998 & -7\end{array}$
$\begin{array}{lll}06 & 998 & -7\end{array}$
$09-997 \quad-8$
$12 \quad 997-9$
$\begin{array}{lll}15 & 996 & -9\end{array}$
$18 \quad 996-9$
$21 \quad 995-10$
$00-987$-6
$\begin{array}{lll}03 & 989 & -4\end{array}$
$06 \quad 990-4$
$09 \quad 990-4$
$12990-5$
$15-990-5$
$\begin{array}{lll}18 & 988 & -9\end{array}$
$\begin{array}{ll}21 & 987\end{array}$
DAY 22
$00 \quad 989-5$
$\begin{array}{lll}03 & 990 & -4\end{array}$
$\begin{array}{lll}06 & 989 & -1\end{array}$
$\begin{array}{lll}09 & 988 & -1\end{array}$
$\begin{array}{lll}12 & 987 & -7\end{array}$
$\begin{array}{lll}15 & 986 & -7\end{array}$
$\begin{array}{lll}18 & 986 & -8\end{array}$
21985 -8
DAY 29
009854
$03 \quad 9843$
$06983 \quad 3$
$09 \quad 983 \quad 2$
$\begin{array}{lll}12 & 982 & -1\end{array}$
$\begin{array}{lll}15 & 981 & -3\end{array}$
$\begin{array}{lll}18 & 980 & -3\end{array}$
21981 -3


PP TT VV
DAY 4
$993-3$

992 -2
991 -2
$992-3$
$993-6$
$\begin{array}{lr}995 & -8 \\ 997 & -10\end{array}$
$\begin{array}{lll}999 & -7 \\ \text { DAY } 11\end{array}$
$\begin{array}{ll}986 & -6 \\ 986 & -5\end{array}$
$\begin{array}{ll}986 & -3\end{array}$
$\begin{array}{ll}986 & -6 \\ 986 & -10\end{array}$
$\begin{array}{ll}986 & -10 \\ 986 & -11\end{array}$
985-12
$984-10$
DAY 18
$\begin{array}{ll}982 & -3 \\ 982 & -3\end{array}$
$\begin{array}{ll}982 & -1 \\ 983 & -3\end{array}$
$984-5$
$\begin{array}{ll}985 & -7\end{array}$
$\begin{array}{ll}986 & -8 \\ 986 & -8\end{array}$
$\begin{array}{ll}986 & -8 \\ \text { DAY } 25\end{array}$
$990-1$
$990 \quad 1$
991 -2
991 -2
$992-2$
$991-3$
$\begin{array}{ll}990 & -4\end{array}$
$988-4$

| PP | TT VV | DD |
| :---: | ---: | ---: | ---: |
| DAY | 5 |  |


| PP | TT VV | DD |
| :---: | :---: | :---: | :---: |
| DAY | 6 |  |


| 1001 | -4 |
| :--- | :--- |
| 1001 | -2 |


| 990 | -6 |  |
| :--- | :--- | :--- |
| 988 | -5 | 99 |
| 988 | -4 |  |
| 987 | -5 |  |
| 989 | -6 |  |
| 989 | -9 |  |
| 990 | -10 |  |
| 991 | -9 |  |
| DAY 13 |  |  |
| 978 | -7 |  |

PP TT WV DD
DAY 7
$992-6$
$993-5$
994 -6
$\begin{array}{ll}995 & -7\end{array}$
$997-8$
$997-9$
$998-9$
$999-8$
DAY 14
974-3
9740
974 -2
975 -3
$977-4$
$979-5$
$982-6$
984 -6
DAY 21
991 -5
$992-4$
993 -6
$992-5$
$992-7$
993-10
991-11
$990-8$
DAY 28
9840
9852
9860
$986 \quad 1$
987 -3
987-4
$987-6$
$986-1$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-5.1$ Std dev $=3.3$ max $=3.9$ at 10 GMt ON dAY 29 MIN $=-14.2$ At 1650 GMT ON dAY 11
* THETA (K) * MEAN $=269.10$
* PRESSURE (MB) * MEAN $=986.8$ STD DEV $=5.6$ MAX $=1001.1$ AT 210 GMT ON DAY 5 MIN $=973.5$ AT 1750 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

| JAN | 97 |
| :--- | :--- |
| HR | $P P$ |



* TEMPERATURE (C) * MEAN $=-3.1$ STD DEV $=2.4$ MAX $=3.6$ AT 300 GMT ON DAY 1 MIN $=-8.5$ at 1740 GMT ON DAY 16
* theta (K) * MEAN $=271.53$
* PRESSURE (MB) * MEAN $=980.9$ STD DEV $=4.4$ MAX $=990.2$ AT 1220 GMT ON DAY 31 MIN $=972.5$ AT 410 GMT ON DAY 4
* WINDS (M/S) * MEAN $=3.2$ STD DEV $=2.0$ RESULTANT $=1.8$ from 132. CONSTANCY $=0.57$ maX $=9.8$ FROM 156 . AT 510 GMT DAY 12 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 33 & 31 & 27 & 8 & 1 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { UNW } & \text { NW } & \text { NNU }\end{array}$
PERCENT

$$
\begin{array}{rrrrrrrrrrrrrrrr}
\text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { UNW } & \text { NW } & \text { NNW } \\
9 & 2 & 2 & 11 & 40 & 10 & 0 & 2 & 0 & 3 & 3 & 4 & 5 & 5
\end{array}
$$

FEB 97

## HR PP TT VV DD

$\begin{array}{lllll}00 & 990 & -4 & 2 & 129\end{array}$
$\begin{array}{lllll}03 & 990 & -2 & 2 & 115\end{array}$
$\begin{array}{lllll}06 & 989 & -2 & 1 & 101\end{array}$
$\begin{array}{lllll}09 & 989 & -4 & 3 & 127\end{array}$
$\begin{array}{lllll}12 & 990 & -5 & 2 & 140\end{array}$
$\begin{array}{lllll}15 & 990 & -5 & 1 & 206\end{array}$
18
$\begin{array}{lllll}21 & 990 & -3 & 1 & 98\end{array}$ DAY 8
$\begin{array}{lllll}00 & 978 & -7 & 7 & 149\end{array}$
$\begin{array}{lllll}03 & 978 & -8 & 9 & 130\end{array}$
$\begin{array}{lllll}06 & 978 & -8 & 11 & 132\end{array}$
$\begin{array}{lllll}09 & 979 & -8 & 10 & 140\end{array}$
$\begin{array}{lllll}12 & 980 & -8 & 6 & 151\end{array}$
$\begin{array}{lllll}15 & 981 & -9 & 6 & 170\end{array}$
$\begin{array}{lllll}18 & 982 & -9 & 4 & 163\end{array}$
$\begin{array}{lllll}21 & 982 & -8 & 3 & 137\end{array}$ DAY 15
$\begin{array}{lllll}00 & 979 & -11 & 4 & 137\end{array}$
$\begin{array}{lllll}03 & 979 & -9 & 3 & 130\end{array}$
$\begin{array}{lllll}06 & 979 & -10 & 4 & 136\end{array}$
$\begin{array}{lllll}09 & 980 & -11 & 5 & 153\end{array}$
$\begin{array}{lllll}12 & 981 & -12 & 6 & 151\end{array}$
$\begin{array}{lllll}15 & 981 & -12 & 3 & 132\end{array}$
$\begin{array}{lllll}18 & 982 & -12 & 5 & 172\end{array}$
$\begin{array}{lllll}21 & 982 & -11 & 3 & 149\end{array}$ DAY 22
$\begin{array}{lllll}00 & 975 & -13 & 9 & 156\end{array}$
$\begin{array}{lllll}03 & 975 & -12 & 8 & 146\end{array}$
$\begin{array}{lllll}06 & 975 & -13 & 6 & 149\end{array}$
$\begin{array}{lllll}09 & 976 & -14 & 8 & 161\end{array}$
$\begin{array}{lllll}12 & 976 & -16 & 3 & 149\end{array}$
$\begin{array}{lllll}15 & 977 & -16 & 2 & 157\end{array}$
$\begin{array}{lllll}18 & 977 & -16 & 3 & 146\end{array}$
$\begin{array}{lllll}21 & 978 & -16 & 5 & 143\end{array}$

$$
\text { DAY } 2
$$

$$
\begin{array}{llllllll}
990 & -4 & 3 & 358 & 992 & -6 & 4 & 126
\end{array}
$$

$$
\begin{array}{llll}
990 & -3 & 3 & 358
\end{array}
$$

$$
\begin{array}{llll}
990 & -3 & 3 & 358
\end{array}
$$

$$
\begin{array}{llll}
991 & -3 & 1 & 303
\end{array}
$$

$\begin{array}{llll}991 & -7 & 5 & 143\end{array}$
$\begin{array}{llll}992 & -7 & 5 & 133\end{array}$
992 -6 4133 DAY 9
$\begin{array}{llll}983 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}982 & -5 & 2360\end{array}$
$\begin{array}{llll}981 & -5 & 3 & 281\end{array}$
$\begin{array}{llll}980 & -7 & 3 & 300\end{array}$
$\begin{array}{llll}980 & -8 & 3 & 288\end{array}$
$\begin{array}{llll}979 & -8 & 1 & 272\end{array}$
$979-6 \quad 0 \quad 0$
$979 \quad-6 \quad 4116$ DAY 16
982-10 4133
$\begin{array}{llll}982 & -8 & 3 & 129\end{array}$
$\begin{array}{llll}982 & -9 & 3 & 149\end{array}$
983-11 4174
$\begin{array}{llll}983 & -12 & 3 & 217\end{array}$
983-12 5171
$\begin{array}{lllll}984 & -13 & 3 & 170\end{array}$
984-11 2171
DAY 23
$\begin{array}{llll}978 & -14 & 5139\end{array}$
$\begin{array}{llll}978 & -14 & 6 & 129\end{array}$
$\begin{array}{llll}978 & -14 & 5 & 135\end{array}$
978-15 4132
$\begin{array}{llll}978 & -16 & 3 & 126\end{array}$
$\begin{array}{llll}977 & -16 & 3 & 181\end{array}$
977-16 00
977-16 6144

PP TT VV DD DAY 3
$\begin{array}{llll}991 & -5 & 3 & 127\end{array}$
$\begin{array}{llll}991 & -6 & 1 & 127\end{array}$
$\begin{array}{llll}990 & -5 & 1 & 185\end{array}$
$\begin{array}{llll}990 & -6 & 2 & 248\end{array}$
$\begin{array}{llll}989 & -5 & 2 & 37\end{array}$
$\begin{array}{llll}989 & -5 & 1 & 105\end{array}$ DAY 10
$\begin{array}{llll}980 & -5 & 6 & 120\end{array}$
$\begin{array}{llll}980 & -6 & 8 & 142\end{array}$
$\begin{array}{llll}981 & -7 & 10 & 143\end{array}$
$\begin{array}{llll}982 & -8 & 8 & 133\end{array}$
$\begin{array}{llll}982 & -9 & 9 & 161\end{array}$
$\begin{array}{lllll}983 & -9 & 10 & 143\end{array}$
$\begin{array}{llll}984 & -9 & 6 & 147\end{array}$
984-10 8143 DAY 17
983-10 4125
983-10 $\quad 5 \quad 108$
983-12 4133
983-13 9164
984-14 9142
$\begin{array}{llll}986 & -14 & 5 & 144\end{array}$
987-14 2135
988-12 6160 DAY 24
978-14 5143
978-14 8142
$978-14 \quad 9146$
979-15 10144
980-15 7146
980-15 5149
981-16 2127
982-14 4133


PP TT VV DD DAY 6
$\begin{array}{llll}984 & -5 & 4 & 129\end{array}$
$\begin{array}{llll}983 & -3 & 3 & 112\end{array}$
$\begin{array}{llll}982 & -2 & 1 & 78\end{array}$
$\begin{array}{llll}982 & -5 & 4 & 144\end{array}$
$\begin{array}{llll}982 & -7 & 3 & 165\end{array}$
$\begin{array}{llll}983 & -7 & 3 & 136\end{array}$
$\begin{array}{llll}983 & -6 & 2 & 137\end{array}$
$\begin{array}{llll}983 & -5 & 3 & 94\end{array}$ DAY 13
$\begin{array}{llll}980 & -11 & 3 & 143\end{array}$
978-10 3132
$\begin{array}{llll}977 & -9 & 4 & 108\end{array}$
976-11 3227
976-12 3220
975-11 2168
$\begin{array}{llll}975 & -12 & 3 & 248\end{array}$
975-11 6126 DAY 20
976-11 8132
$\begin{array}{llll}975 & -8 & 8 & 136\end{array}$
$\begin{array}{llll}974 & -8 & 16165\end{array}$
$\begin{array}{llll}975 & -8 & 14 & 188\end{array}$
$\begin{array}{llll}974 & -9 & 12181\end{array}$
$\begin{array}{llll}975 & -9 & 15 & 182\end{array}$
$975-1111105$
976-11 11130

## DAY 27

985-11 7144
984-11 10116
983-12 12123
982-13 14136
982-14 10157
980-13 12142
979-14 11154
978-14 8161

PP TT VV DD DAY 7
$\begin{array}{llll}983 & -5 & 3 & 112\end{array}$
$\begin{array}{llll}981 & -4 & 3 & 144\end{array}$
$\begin{array}{llll}981 & -5 & 3 & 112\end{array}$
$\begin{array}{llll}980 & -7 & 4 & 142\end{array}$

| 979 | -8 | 3 |
| :--- | :--- | :--- | 130

$\begin{array}{llll}979 & -8 & 3 & 123\end{array}$
$\begin{array}{llll}978 & -7 & 2129\end{array}$
$\begin{array}{llll}978 & -7 & 4 & 112\end{array}$
DAY 14
974-10 3115
$\begin{array}{llll}974 & -9 & 1 & 99\end{array}$
$\begin{array}{llll}973 & -8 & 3 & 268\end{array}$
$\begin{array}{lll}974 & -9 & 1336\end{array}$
975-10 5139
976-11 6153
978-13 9150
979-12 7118

## DAY 21

976-10 5135
$\begin{array}{lllll}976 & -9 & 10 & 119\end{array}$
976-10 10135
976-12 10146
976-14 9146
$\begin{array}{llll}976 & -14 & 8 & 167\end{array}$
976-14 9161
$\begin{array}{lll}976 & -13 & 7149\end{array}$ DAY 28
976-13 $8 \quad 161$
974-13 8133
973-14 6156
971-16 4163
970-17 4171
969-17 6165
969-18 8164

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-10.2$ STD DEV $=4.1$ MAX $=-0.5$ AT 440 GMT ON DAY 4 MIN $=-18.2$ AT 1710 GMT ON DAY 28
* THETA (K) * MEAN $=264.39$
* PRESSURE (MB) * MEAN $=981.6$ STD DEV $=5.0$ MAX $=991.9$ AT 2120 GMT ON DAY 2 MIN $=968.1$ AT 2130 GMT ON DAY 28
* WINDS (M/S) * MEAN $=5.7$ STD DEV $=3.6$ RESULTANT $=5.0$ FROM 144. CONSTANCY $=0.87$ MAX $=19.4$ FROM 185. AT 1250 GMT DAY 20 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$


* TEMPERATURE (C) * MEAN $=-19.0$ STD DEV $=3.6$ MAX $=-8.8$ AT 240 GMT ON DAY 3 MIN $=-27.1$ AT 900 GMT ON DAY 20
* THETA (K) * MEAN $=256.19$
* PRESSURE (MB) * MEAN $=972.7$ STD DEV $=9.3$ MAX $=992.4$ AT 1000 GMT ON DAY 25 MIN $=946.5$ AT 1820 GMT ON DAY 29
* WINDS (M/S) * MEAN $=3.5$ STD DEV $=3.1$ RESULTANT $=2.9$ FROM 154. CONSTANCY $=0.81$ MAX $=20.1$ FROM 142 . AT 0 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW


APR 97

HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 967 & -22 & 3\end{array} 174$ $\begin{array}{lllll}03 & 964 & -22 & 6 & 147\end{array}$ $\begin{array}{llll}06 & 962 & -22 & 4150\end{array}$ $\begin{array}{llll}09 & 961 & -25 \quad 4 & 136\end{array}$ $\begin{array}{llll}12 & 963 & -25 & 4142\end{array}$ $\begin{array}{lllll}15 & 965 & -25 & 3 & 343\end{array}$ $\begin{array}{lllll}18 & 966 & -20 & 3 & 264\end{array}$
$\begin{array}{lll}21 & 967-19 & 332\end{array}$ DAY 8
$\begin{array}{llll}00 & 967-16 & 2133\end{array}$
03 969-15 2206
$06 \quad 970-15 \quad 3194$
$\begin{array}{llll}09 & 972-15 & 0 & 0\end{array}$
12 974-15 2188
$\begin{array}{llll}15 & 976 & -15 & 4 \\ 156\end{array}$
$\begin{array}{lllll}18 & 979 & -16 & 3 & 144\end{array}$
$\begin{array}{llll}21 & 980 & -16 & 3 \\ 151\end{array}$ DAY 15
$\begin{array}{lllll}00 & 974 & -21 & 0 & 0\end{array}$ $\begin{array}{lllll}03 & 975 & -21 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 977 & -22 & 7 & 153\end{array}$
$\begin{array}{llll}09 & 979 & -23 & 4 \\ 144\end{array}$
$\begin{array}{llll}12 & 981 & -22 & 2 \\ 201\end{array}$
$\begin{array}{lllll}15 & 982 & -21 & 3 & 219\end{array}$
$\begin{array}{llll}18 & 983 & -20 & 247\end{array}$
$\begin{array}{llll}21 & 984 & -21 & 5 \\ 243\end{array}$ DAY 22
$\begin{array}{lllll}00 & 991 & -27 & 4 & 144\end{array}$
$\begin{array}{lllll}03 & 990 & -29 & 2123\end{array}$
$\begin{array}{lllll}06 & 991 & -30 & 7 & 144\end{array}$
$\begin{array}{lllll}09 & 992 & -30 & 5 & 136\end{array}$
$\begin{array}{lllll}12 & 992 & -31 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 991 & -28 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 989 & -29 & 3 & 268\end{array}$
$\begin{array}{llll}21 & 988 & -29 & 2136\end{array}$ DAY 29
$\begin{array}{lllll}00 & 973 & -26 & 4 & 172\end{array}$
$\begin{array}{lllll}03 & 972 & -27 & 6 & 137\end{array}$
$\begin{array}{lllll}06 & 972 & -28 & 7 & 142\end{array}$
$\begin{array}{lllll}09 & 973 & -28 & 7 & 156\end{array}$
$\begin{array}{lllll}12 & 974 & -30 & 3 & 136\end{array}$
$\begin{array}{lllll}15 & 975 & -30 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 975 & -26 & 3 & 208\end{array}$
$\begin{array}{llll}21 & 975 & -28 \quad 4 & 239\end{array}$

PP TT VV DD PP TT VV DD

## DAY 2

967-19 1240
968 -22 9144
971-21-6158
973-21 0
974-22 1210
974-22 1320
$\begin{array}{llll}974 & -22 & 1 & 177\end{array}$
974 -23 3295 DAY 9
982-17 4167
982-17 2158
982-18 1177
$\begin{array}{llll}981 & -21 & 3120\end{array}$
$\begin{array}{llll}980 & -21 & 5156\end{array}$
$\begin{array}{llll}980 & -22 & 7149\end{array}$
$\begin{array}{llll}978 & -23 & 8 & 130\end{array}$
$\begin{array}{llll}978 & -24 & 7143\end{array}$ DAY 16
985-21 6246 985-19 3220 985-21 5258 985-21 0 0 $\begin{array}{llll}985 & -22 & 3 & 167\end{array}$ 986-22 2239 987-22 0 $\begin{array}{llll}988 & -24 & 3 & 147\end{array}$ DAY 23
$\begin{array}{llll}987 & -31 & 4 & 126\end{array}$
$\begin{array}{llll}985 & -34 & 4 & 129\end{array}$
$\begin{array}{llll}985 & -33 & 8 & 149\end{array}$
$\begin{array}{llll}985 & -32 & 4 & 147\end{array}$
985-32 0
986-31 2230
986-30 2215
986-32 0 DAY 30
975-31 2143
973-31 00
$973-30 \quad 0 \quad 0$
973-31 0
$\begin{array}{llll}974 & -30 & 1 & 143\end{array}$
975-31 2151
$\begin{array}{llll}977 & -31 & 4 & 144\end{array}$
$977-30 \quad 3153$

DAY 3
975-23 2312
977-22 0
$\begin{array}{llll}978 & -24 & 178\end{array}$
979 -24 1261
$\begin{array}{llll}978 & -23 & 389\end{array}$
$\begin{array}{llll}978 & -24 & 3 & 336\end{array}$
$\begin{array}{llll}979 & -24 \quad 6 \quad 139\end{array}$
980 -23 7153 DAY 10
977-24 7136
$\begin{array}{llll}976 & -24 & 7133\end{array}$
$\begin{array}{llll}976 & -25 & 8 & 146\end{array}$
$\begin{array}{llll}976 & -26 & 7 & 142\end{array}$
$\begin{array}{llll}975 & -27 & 3 & 160\end{array}$
$\begin{array}{lll}975 & -27 & 2119\end{array}$
974-28 1281
$\begin{array}{llll}974 & -28 & 1 & 63\end{array}$ DAY 17
989-25 1281
991-23 00
$\begin{array}{llll}991 & -24 & 0 & 0\end{array}$
992-25 0
$\begin{array}{llll}993 & -26 & 2 & 5\end{array}$
993-26 2333
$\begin{array}{lll}993 & -26 & 316\end{array}$
995-25 1198 DAY 24
$\begin{array}{llll}985 & -33 & 215\end{array}$
$\begin{array}{lllll}984 & -35 & 3 & 146\end{array}$
$\begin{array}{llll}983 & -35 & 2150\end{array}$
$\begin{array}{llll}981 & -36 & 5 & 132\end{array}$
$\begin{array}{llll}981 & -36 & 3 & 147\end{array}$
$\begin{array}{llll}979 & -36 & 2 & 144\end{array}$
$\begin{array}{llll}979 & -36 & 0 & 0\end{array}$
$\begin{array}{llll}979 & -35 & 2 & 278\end{array}$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-24.6$ STD DEV $=5.4$ MAX $=-7.0$ AT 2010 GMT ON DAY 5 MIN $=-36.9$ AT 1700 GMT ON DAY 24
* theta (K) * MEAN $=250.11$
* PRESSURE (MB) * MEAN $=978.9$ STD DEV $=10.8$ MAX $=1005.9$ AT 20 GMT ON DAY 19 MIN $=956.2$ AT 2020 GMT ON DAY 5
* WINDS (M/S) * MEAN $=2.6$ STD DEV $=2.3$ RESULTANT $=1.6$ FROM 170 . CONSTANCY $=0.61 \mathrm{MAX}=18.4$ FROM 88 . AT 2220 GMT DAY 5
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 2 & 0 & 0 & 1 & 0 & 2 & 22 & 23 & 7 & 9 & 8 & 8 & 6 & 5 & 4 & 4\end{array}$


* TEMPERATURE (C) * MEAN $=-22.0$ STD DEV $=5.9 \mathrm{MAX}=-6.2$ AT 1720 GMT ON DAY 16 MIN $=-35.8$ AT 620 GMT ON DAY 14
* THETA (K) * MEAN $=253.65$
* PRESSURE (MB) * MEAN $=966.8$ STD DEV $=8.8$ MAX $=983.7$ AT 1410 GMT ON DAY 27 MIN $=941.1$ AT 1710 GMT ON DAY 16
* WINDS (M/S) * MEAN $=3.9$ STD DEV $=3.7$ RESULTANT $=3.0$ FROM 170. CONSTANCY $=0.76$ MAX $=22.8$ FROM 188 . AT 840 GMT DAY 16
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 $\begin{array}{lllllllllllrrrrrrrrr}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 5 & 12 & 31 & 13 & 8 & 12 & 6 & 3 & 5 & 3 & 1\end{array}$

JUN 97
HR PP TT VV DD DAY 1
$00 \quad 975$-22 4206 $\begin{array}{llll}03 & 976 & -22 \quad 2 & 215\end{array}$ $\begin{array}{llll}06 & 977 & -24 & 2\end{array}$ $\begin{array}{llll}09 & 978 & -23 & 2\end{array}$ $\begin{array}{llll}12 & 978 & -22 & 3\end{array} 220$ $\begin{array}{lllll}15 & 978 & -22 & 0 & 0\end{array}$ $\begin{array}{lllll}18 & 978 & -22 & 2 & 139\end{array}$ $\begin{array}{lllll}21 & 979 & -23 & 3 & 151\end{array}$ DAY 8
$\begin{array}{lllll}00 & 966 & -13 & 10 & 195\end{array}$

| 03 | 969 | -15 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}06 & 970 & -14 & 1 & 171\end{array}$
$\begin{array}{llll}09 & 971 & -15 & 2\end{array} 227$
$\begin{array}{lllll}12 & 970 & -15 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 970 & -15 & 3 & 167\end{array}$ $\begin{array}{lllll}18 & 969 & -17 & 6 & 164\end{array}$ $\begin{array}{lllll}21 & 969 & -16 & 9 & 163\end{array}$ DAY 15
00
$\begin{array}{lllll}03 & 972 & -23 & 10 & 147\end{array}$ $\begin{array}{lllll}06 & 974 & -24 & 7 & 146\end{array}$ $\begin{array}{lllll}09 & 977 & -26 & 10 & 153\end{array}$ $\begin{array}{lllll}12 & 981 & -25 & 10 & 140\end{array}$ $\begin{array}{lllll}15 & 984 & -27 & 9 & 144\end{array}$ $\begin{array}{lllll}18 & 986 & -27 & 3 & 175\end{array}$ $\begin{array}{lllll}21 & 986 & -23 & 5 & 178\end{array}$ DAY 22
$\begin{array}{lllll}00 & 998 & -13 & 10 & 154\end{array}$ $\begin{array}{lllll}03 & 1000 & -13 & 4 & 178\end{array}$ $\begin{array}{lllll}06 & 1001 & -14 & 5 & 149\end{array}$ $09 \quad 1002-13 \quad 3203$ $\begin{array}{llll}12 & 1001 & -15 & 4 \\ 237\end{array}$ $\begin{array}{lllll}15 & 1000 & -13 & 3 & 144\end{array}$ $\begin{array}{lllll}18 & 999 & -12 & 3 & 198\end{array}$ $\begin{array}{lllll}21 & 998 & -13 & 0 & 0\end{array}$ DAY 29
$\begin{array}{lllll}00 & 996 & -29 & 9 & 167\end{array}$ $\begin{array}{lllll}03 & 995 & -30 & 9 & 154\end{array}$ $\begin{array}{lllll}06 & 996 & -30 & 7 & 167\end{array}$ $\begin{array}{lllll}09 & 995 & -30 & 7 & 157\end{array}$ $\begin{array}{lllll}12 & 995 & -30 & 9 & 151\end{array}$
$\begin{array}{lllll}15 & 994 & -31 & 7 & 168\end{array}$
$\begin{array}{lllll}18 & 993 & -32 & 6 & 143\end{array}$
$\begin{array}{lllll}21 & 991 & -33 & 8 & 142\end{array}$


PP TT VV DD PP DAY 4
992-25 2199
$\begin{array}{llll}991 & -25 & 2 & 60\end{array}$
988-26 4255
$\begin{array}{llll}987 & -26 & 3 & 185\end{array}$
986-26 3170
$\begin{array}{llll}984 & -27 & 3 & 184\end{array}$
$\begin{array}{llll}982 & -27 & 3 & 264\end{array}$
$\begin{array}{llll}981 & -27 & 4 & 237\end{array}$
DAY 11
971-19 2147
970-18 3191
969-17 3203
969-16 4185
968-15 3156
967-15 4225
967-17 4182
967-17 0 0
DAY 18
974-26 6227
972-22 4229
$\begin{array}{llll}973 & -21 & 3191\end{array}$
975-21 2167
974-20 4161
972-15 12161
$969-1311135$
967-11 25149
DAY 25
992-19 0
992-19 2261
992-19 3262
991 -20 4250
991-20 3212
$\begin{array}{llll}991 & -21 & 1 & 167\end{array}$
$\begin{array}{llll}992 & -24 & 5 & 137\end{array}$
$994-23 \quad 7163$

PP TT WV DD PP TT VV DD DAY 5
980-26 2257
979 -27 3262
977-28 4254
$\begin{array}{llll}976 & -26 & 3 & 232\end{array}$
$\begin{array}{lll}975 & -26 & 4 \\ 310\end{array}$
$\begin{array}{llll}975 & -26 & 3 & 275\end{array}$
976-27 3234
976-26 0 DAY 12
966-14 3331
967-16 2327
967-17 1223
968-16 1129
968-16 2248
969-15 2215
969-15 1178
969-16 166 DAY 19
$\begin{array}{llll}966 & -8 & 28 & 144\end{array}$
$\begin{array}{llll}973 & -9 & 14144\end{array}$
$\begin{array}{llll}972 & -9 & 25 & 144\end{array}$
$\begin{array}{llll}979 & -5 & 18 & 164\end{array}$
$\begin{array}{llll}983 & -7 & 18 & 167\end{array}$
$\begin{array}{llll}985 & -8 & 15 & 181\end{array}$
$\begin{array}{llll}986 & -8 & 12 & 188\end{array}$
987-11 10.168 DAY 26
$\begin{array}{llll}996 & -23 & 6151\end{array}$
996-24 5135
$\begin{array}{llll}996 & -24 & 3 & 154\end{array}$
995-25 2137
$\begin{array}{llll}995 & -26 & 5 & 133\end{array}$
995-27 7137
995-27 7146
995-28 6163

## DAY 6

976-26 2229
976-26 3264
$\begin{array}{llll}976 & -25 & 1 & 144\end{array}$
977-26 3130
$\begin{array}{llll}978 & -28 & 0 & 0\end{array}$
978-26 3313
$\begin{array}{lll}978 & -27 & 2150\end{array}$
977-26 0
DAY 13
969-16 1219
967-14 2265
965-15 3213
963-14 1212
961-14 3208
960-14 2206
959-18 3161
960-21 5116

$$
\text { DAY } 20
$$

986-11 8149
986-12 11160
988-14 12153
990-15 10149
$991-1215135$
993-12 11129
994-11 12153
994-10 11191

## DAY 27

995-29 7158
995-29 7154
996-28 6150
996-30 6161
$\begin{array}{llll}997 & -30 & 6140\end{array}$
$\begin{array}{llll}997 & -30 & 7147\end{array}$
$\begin{array}{llll}998 & -30 & 9 & 143\end{array}$
$998-3011132$

PP TT WV DD DAY 7
975-23 0
972-23 4205
969-21 3223
$\begin{array}{llll}966 & -20 & 5 & 226\end{array}$
963-16 $\quad 3198$
962-15 2216
$\begin{array}{llll}962 & -14 & 316\end{array}$
964-15 2149
DAY 14
963-21 5149
964-16 2168
965-16 3239
966-16 1295
966-16 4317
967-17 2319
967-20 0
968-19 5317

## DAY 21

$\begin{array}{llll}992 & -8 & 15 & 181\end{array}$
$\begin{array}{llll}990 & -8 & 10 & 184\end{array}$
$\begin{array}{llll}989 & -7 & 13 & 187\end{array}$
$\begin{array}{llll}988 & -11 & 8 & 137\end{array}$
988-13 $\quad 6 \quad 101$
$990-13 \quad 8 \quad 154$
992-13 6151
$995-12 \quad 6 \quad 160$
DAY 28
998-28 10153
997-29 8151
$\begin{array}{llll}997 & -29 & 8157\end{array}$
$\begin{array}{llll}996 & -29 & 7140\end{array}$
996-29 8146
996-28 6160
$\begin{array}{llll}996 & -29 & 11 & 163\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-20.9$ StD dev $=6.6$ max $=-5.0$ at 840 GMT ON DAY 19 MIN $=-33.9$ AT 2250 GMT ON DAY 29
* THETA (K) * MEAN $=253.72$
* PRESSURE (MB) * MEAN $=980.5$ STD DEV $=11.8$ MAX $=1001.7$ at 800 GMT ON DAY 22 MIN $=952.6$ at 1750 GMt ON DAY 9
* WINDS (M/S) * MEAN $=5.2$ STD DEV $=4.3$ RESULTANT $=4.3$ FROM 165. CONSTANCY $=0.82$ MAX $=27.9$ FROM 144. AT OMT DAY 19
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 1 & 0 & 2 & 18 & 35 & 12 & 7 & 11 & 5 & 3 & 1 & 3 & 1\end{array}$

JUL 97

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 982 & -33 & 0 & 0\end{array}$
$\begin{array}{llll}03 & 981 & -32 & 2 \\ 237\end{array}$
$\begin{array}{lllll}06 & 980 & -31 & 1 & 275\end{array}$
$\begin{array}{lllll}09 & 979 & -31 & 1 & 267\end{array}$
$\begin{array}{lllll}12 & 978 & -32 & 2 & 192\end{array}$
$\begin{array}{lllll}15 & 977 & -32 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 977 & -32 & 0 & 0\end{array}$
$\begin{array}{lllll}21 & 978 & -33 & 0 & 0\end{array}$
DAY 8

| 00 | 960 | -15 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}03 & 960 & -14 & 3 \\ 219\end{array}$
$\begin{array}{lllll}06 & 961 & -16 & 2 & 97\end{array}$
$\begin{array}{llll}09 & 963 & -17 & 7 \\ 161\end{array}$
$\begin{array}{llll}12 & 966-18 & 6 & 142\end{array}$
$\begin{array}{llll}15 & 966-17 & 2194\end{array}$
$\begin{array}{llll}18 & 966 & -18 & 4307\end{array}$
$\begin{array}{lll}21 & 966-19 & 268\end{array}$ DAY 15
$\begin{array}{llll}00 & 961 & -28 & 4 \\ 133\end{array}$
$\begin{array}{lllll}03 & 961 & -28 & 3 & 164\end{array}$
$\begin{array}{llll}06 & 962 & -28 & 2177\end{array}$
$\begin{array}{llll}09 & 964 & -27 & 0\end{array} 0$
$\begin{array}{llll}12 & 967 & -28 & 5 \\ 146\end{array}$
$\begin{array}{lllll}15 & 969 & -27 & 5 & 146\end{array}$
$\begin{array}{lllll}18 & 970 & -26 & 0 & 0\end{array}$
$\begin{array}{lll}21 & 972-24 \quad 1279\end{array}$ DAY 22
$\begin{array}{lllll}00 & 978 & -31 & 5 & 171\end{array}$
$\begin{array}{lllll}03 & 977 & -31 & 1 & 251\end{array}$
$\begin{array}{lllll}06 & 975 & -30 & 2 & 236\end{array}$
$\begin{array}{lllll}09 & 975 & -30 & 1 & 133\end{array}$
$\begin{array}{lllll}12 & 974 & -31 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 974 & -32 & 2150\end{array}$
$\begin{array}{lllll}18 & 974 & -32 & 8 & 170\end{array}$
$\begin{array}{llll}21 & 973 & -32 & 5 \\ 156\end{array}$ DAY 29
$\begin{array}{lllll}00 & 978 & -37 & 3 & 178\end{array}$
$\begin{array}{lllll}03 & 978 & -38 & 6 & 144\end{array}$
$\begin{array}{lllll}06 & 979 & -37 & 4 & 120\end{array}$
$\begin{array}{lllll}06 & 978 & -34 & 3 & 253\end{array}$
$\begin{array}{lllll}12 & 975 & -34 & 3 & 241\end{array}$
$\begin{array}{lllll}15 & 972 & -39 & 9 & 136\end{array}$
$\begin{array}{llllll}18 & 970 & -37 & 7 & 126\end{array}$
$\begin{array}{lllll}21 & 965 & -37 & 3 & 111\end{array}$

PP TT W DD DAY 2 $\begin{array}{lll}978 & -32 & 1217\end{array}$ $\begin{array}{llll}978 & -32 & 0 & 0\end{array}$ $\begin{array}{llll}978 & -32 & 1 & 199\end{array}$ $\begin{array}{llll}978 & -31 & 1 & 171\end{array}$ 978-30 0 979-29 0 0 978-28 0 978-30 273 DAY 9 965-19 0 0 966-20 2327 969 -21 1156 973 -21 6156 976-21 5129 $\begin{array}{lll}978 & -22 & 3 \\ 181\end{array}$ 977-22 2198 976-22 4203 DAY 16
974-26 2139 $\begin{array}{lll}975 & -25 & 2167\end{array}$ 975-24 0
977-25 2261
979-24 2143
981-22 2208
982-22 2248
983-23 6233 DAY 23
$\begin{array}{llll}973 & -34 & 3 & 147\end{array}$
$\begin{array}{llll}972 & -34 & 3140\end{array}$
$\begin{array}{llll}972 & -34 & 1 & 160\end{array}$
$\begin{array}{llll}971 & -35 & 1 & 327\end{array}$
$\begin{array}{llll}971 & -35 & 288\end{array}$
$\begin{array}{llll}972 & -35 & 3 & 246\end{array}$
$\begin{array}{llll}972 & -36 & 0 & 0\end{array}$
$\begin{array}{llll}974 & -34 & 1 & 317\end{array}$ DAY 30
$962-37 \quad 4129$
$\begin{array}{llll}963 & -35 & 8 & 151\end{array}$
$\begin{array}{llll}963 & -36 & 5150\end{array}$
$\begin{array}{llll}964 & -35 & 0 & 0\end{array}$
$\begin{array}{llll}966 & -38 & 4 & 144\end{array}$
$\begin{array}{llll}967 & -35 & 2136\end{array}$
$\begin{array}{llll}968 & -36 & 0 & 0\end{array}$

PP TT WV DD DAY 3

978-29 0 | 976 | -24 | 1 |
| :--- | :--- | :--- | 974-23 0 972-25 0 969-20 1282 965-17 4230 962-14 2171 961 -17 6248 DAY 10

974-24 4250 $\begin{array}{llll}971 & -22 & 11\end{array}$ $969-224223$ $966-22 \quad 4196$ 962-23 2215 959-22 3265 956-23 4255 953-24 1156 DAY 17
983-21 0
983-21 1132
982-21 2212
982-24 3129
$\begin{array}{lll}981 & -24 & 1345\end{array}$
$979-25 \quad 4130$
$\begin{array}{llll}978 & -25 & 1 & 161\end{array}$
977 -27 1180

## DAY 24

975-35 0 0
$977-354160$
$\begin{array}{llll}978 & -33 & 5 & 167\end{array}$
$\begin{array}{lllll}978 & -31 & 8 & 144\end{array}$
$\begin{array}{llll}979 & -32 & 8 & 163\end{array}$
$\begin{array}{llll}977 & -30 & 12147\end{array}$
$\begin{array}{llll}977 & -29 & 6 & 147\end{array}$
$\begin{array}{llll}976 & -25 & 8 & 161\end{array}$ DAY 31
$\begin{array}{llll}971 & -36 & 0 & 0\end{array}$
$\begin{array}{llll}971 & -36 & 0 & 0\end{array}$
$\begin{array}{llll}972 & -36 & 0 & 0\end{array}$
$\begin{array}{llll}973 & -37 & 1 & 178\end{array}$
$\begin{array}{lllll}974 & -38 & 3 & 130\end{array}$
$\begin{array}{llll}976 & -39 & 4 & 147\end{array}$
$\begin{array}{llll}977 & -38 & 4 & 158\end{array}$

PP TT VV DD DAY 4
962-16 8234
$\begin{array}{llll}963 & -17 & 7232\end{array}$
$\begin{array}{llll}968 & -16 & 6 & 143\end{array}$
$\begin{array}{llll}972 & -17 & 3 & 153\end{array}$
977-18 6137
979-19 5243
981-20 230
982-19 4241 DAY 11
951-27 0
$\begin{array}{llll}948 & -27 & 0 & 0\end{array}$
946-28 2323
945-29 2234

| 947 | -29 | 3 |
| :--- | :--- | :--- |

$\begin{array}{llll}950 & -31 & 8 & 158\end{array}$
$\begin{array}{llll}953 & -32 & 8 & 147\end{array}$
$\begin{array}{llll}958 & -33 & 8 & 156\end{array}$ DAY 18
975-27 2156
$\begin{array}{llll}973 & -28 & 3 & 160\end{array}$
$\begin{array}{llll}972 & -29 & 3 & 163\end{array}$
$\begin{array}{llll}971 & -30 & 3 & 136\end{array}$
972 -29 3165
972-29 4160
973 -30 5151
974-30 4139 DAY 25
977-26 10170
$977-25 \quad 9 \quad 153$
975 -25 10154
975-25 8158
$973-259154$
$\begin{array}{llll}972 & -24 & 4 & 182\end{array}$
$\begin{array}{llll}971 & -25 & 3 & 198\end{array}$
$969-26 \quad 2309$

PP TT WV DD DAY 5
983-19 2164
982-20 3230
980-19 0 0
979-19 0
977-20 2229
975-20 0
973-22 2226
972-22 1180 DAY 12
963 -34 10157
$\begin{array}{llll}969 & -35 & 8 & 167\end{array}$
$\begin{array}{llll}972 & -36 & 7158\end{array}$
975 -34 10158
978 -35 8146
$979-34 \quad 7139$
$\begin{array}{lllll}980 & -33 & 5 & 130\end{array}$
982-31 $\quad 3 \quad 33$ DAY 19
976-32 5158
$\begin{array}{llll}977 & -33 & 3 & 143\end{array}$
$\begin{array}{llll}977 & -30 & 5 & 140\end{array}$
$\begin{array}{llll}978 & -29 & 3 & 156\end{array}$
979-30 0
979-29 0 0
$\begin{array}{llll}980 & -29 & 1 & 237\end{array}$
980-30 0
DAY 26
968-25 0
967-25 0
967-25 1315
968-27 00
$\begin{array}{llll}970 & -27 \quad 4 & 147\end{array}$
$\begin{array}{llll}973 & -29 & 6 & 142\end{array}$
$\begin{array}{llll}976 & -27 & 7132\end{array}$
979-28 3240

PP TT VV DD DAY 6
970-20 5149
969 -21 1230
$\begin{array}{llll}971 & -21 & 5 & 168\end{array}$
972-23 10146
974-22 1105
$\begin{array}{llll}974 & -22 & 217\end{array}$
972-22 3316
971 -20 5265
DAY 13
982-28 11182
$\begin{array}{llll}982 & -26 & 14 & 188\end{array}$
$\begin{array}{lll}982 & -25 & 7 \\ 219\end{array}$
$982-26 \quad 9189$
$\begin{array}{lll}981 & -26 & 7241\end{array}$
$979-23 \quad 7232$
976-26 9232
974 -23 4220
DAY 20
980-30 0 0
$\begin{array}{llll}980 & -31 & 0 & 0\end{array}$
$\begin{array}{llll}980 & -30 & 0 & 0\end{array}$
$\begin{array}{llll}980 & -30 & 2 & 172\end{array}$
$\begin{array}{llll}981 & -31 & 1 & 137\end{array}$
$\begin{array}{llll}982 & -30 & 1 & 160\end{array}$
$\begin{array}{lll}981 & -29 & 1 \\ 205\end{array}$
981-29 2202
DAY 27
980-27 6279
$979-27 \quad 4268$
$979-274248$
980-29 2154
$\begin{array}{lll}979 & -29 \quad 4132\end{array}$
$\begin{array}{llll}978 & -31 & 6119\end{array}$
$\begin{array}{llll}977 & -33 & 8 \quad 130\end{array}$
978 -35 9137

PP TT WV DD DAY 7
969-19 9181
967-18 2149
$\begin{array}{llll}966 & -18 & 2 & 84\end{array}$
964-15 8180
963-17 5157
962-14 10181
961-13 10174
961-14 0
DAY 14
972-21 4241
969-21 3206
967-20 0
$\begin{array}{llll}965 & -23 & 2142\end{array}$
963-24 1181
961 -25 1142
$\begin{array}{llll}960 & -26 & 3 & 140\end{array}$
$\begin{array}{lll}961 & -27 & 3144\end{array}$
DAY 21
$\begin{array}{llll}981 & -30 & 3 & 157\end{array}$
$\begin{array}{llll}980 & -32 & 4 & 142\end{array}$
$\begin{array}{llll}980 & -33 & 2140\end{array}$
$\begin{array}{llll}979 & -35 & 3 & 137\end{array}$
$\begin{array}{llll}978 & -33 & 5 & 149\end{array}$
$\begin{array}{llll}978 & -32 & 3 & 151\end{array}$
$\begin{array}{llll}978 & -33 & 3 & 142\end{array}$
978 -33 6153
DAY 28
$\begin{array}{llll}979 & -34 & 6 & 147\end{array}$
$979-36 \quad 4136$
$\begin{array}{llll}980 & -36 & 4133\end{array}$
$\begin{array}{llll}981 & -36 & 3 & 137\end{array}$
$\begin{array}{lllll}980 & -36 & 4 & 133\end{array}$
$\begin{array}{llll}981 & -36 & 3 & 150\end{array}$
$\begin{array}{llll}981 & -36 & 1 & 229\end{array}$
$\begin{array}{lllll}980 & -37 & 3 & 135\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-27.4$ Std dev $=6.2$ MAX $=-12.2$ AT 1850 GMT ON DAY 7 MIN $=-39.9$ AT 1410 GMT ON DAY 31
* theta (K) * mean $=247.75$
* PRESSURE (MB) * MEAN $=972.8$ STD DEV $=7.7$ MAX $=983.4$ AT 10 GMT ON DAY 17 MIN $=945.0$ AT 750 GMT ON DAY 11
* WINDS (M/S) * MEAN $=3.4$ STD DEV $=2.9$ RESULTANT $=2.5$ FROM 169. CONSTANCY $=0.74$ MAX $=18.4$ FROM 122. AT 2250 GMT DAY 24
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 1 & 0 & 0 & 1 & 2 & 24 & 27 & 10 & 6 & 10 & 9 & 4 & 1 & 3 & 1\end{array}$
HR PP TT WV DD DAY 1

|  |  | DAY | 8 |
| :---: | :---: | :---: | :---: |
| 00 |  |  |  |
| 03 |  |  |  |
| 06 |  |  |  |
| 09 |  |  |  |
| 12 |  |  |  |
| 15 |  |  |  |
| 18 |  |  |  |
| 21 |  |  |  |
|  |  | DAY | 15 |
| 00 | 975 | -19 | 11113 |
| 03 | 974 | -16 | 5119 |
| 06 | 973 | -16 | 9132 |
| 09 | 972 | -17 | 15119 |
| 12 | 972 | -21 | 13116 |
| 15 | 972 | -24 | 12119 |
| 18 | 971 | -24 | 3177 |
| 21 | 969 | -21 | 3195 |
|  |  | DAY | 22 |
| 00 | 977 | -26 | 0 |
| 03 | 979 | -29 | 2210 |



DAY 29
DAY 30
DAY 31
979-27 4203

PP TT WV DD DAY 4

PP TT W DD DAY 5

PP TT WV DD DAY 6

DAY 14
964-17 278
$\begin{array}{llll}966 & -20 & 7 & 88\end{array}$
$\begin{array}{llll}969 & -23 & 11 & 149\end{array}$
971-22 5195
971-21 2232
972-17 3255
972-18 2272
974-18 11106
DAY 21
973-28 5130
973-28 0

DAY 26 DAY 27
$\begin{array}{llll}976 & -34 & 4 \\ 144\end{array}$
975 -32 4144

| 977 | -31 | 3 | 307 | 976 | -34 | 4 | 144 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 977 | -30 | 1 | 298 | 975 | -32 | 4 | 144 |

DAY 28

| DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 974 | -27 | 7144 | 966 | -23 | 00 | 964 | -17 | 2 | 78 |
| 973 | -24 | 5146 | 963 | -21 | 0 | 966 | -20 | 7 | 88 |
| 973 | -25 | 3192 | 961 | -20 | 2289 | 969 | -23 | 11 | 149 |
| 974 | -26 | 6146 | 961 | -18 | 159 | 971 | -22 | 51 | 195 |
| 973 | -26 | 3189 | 960 | -19 | 6250 | 971 | -21 | 2 | 232 |
| 972 | -24 | 3217 | 961 | -17 | 4213 | 972 | -17 | 3 | 255 |
| 970 | -26 | 4239 | 960 | -17 | 4254 | 972 | -18 | 2 | 272 |
| 969 | -24 | 3261 | 963 | -17 | 3295 | 974 | -18 | 11 | 106 |
|  | DAY | 19 |  | DAY | 20 |  | DAY | 21 |  |
| 969 | -28 | 1262 | 976 | -22 | 3184 | 973 | -28 | 5 | 130 |
|  |  |  | 977 | -23 | 7168 | 973 | -28 | 0 | 0 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-22.9$ Std dev $=4.5$ max $=-13.8$ at 2350 GMT ON DAY 10 MIN $=-34.4$ at 30 GMT ON dAY 27
* theta (K) * MEAN $=252.54$
* PRESSURE (MB) * MEAN $=968.6$ STD DEV $=6.7$ MAX $=979.3$ at 2320 GMT ON DAY 30 MIN $=950.9$ AT 220 GMT ON DAY 11
* WINDS (M/S) * MEAN $=5.6$ STD DEV $=4.9$ RESULTANT $=3.8$ fROM 153. CONSTANCY $=0.68$ mAX $=32.3$ fROM 135 . AT 450 GMT DAY 11
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $63.7 \%$ PRESSURE: $63.7 \%$ WINDS: $63.7 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 2 & 1 & 10 & 23 & 10 & 10 & 12 & 6 & 11 & 6 & 5 & 5 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-20.8$ STD DEV $=7.8$ MAX $=-4.8$ AT 950 GMT ON DAY 26 MIN $=-36.9$ AT O GMT ON DAY 15
* THETA (K) * MEAN $=254.24$
* PRESSURE (MB) * MEAN $=973.9$ STD DEV $=7.5$ MAX $=993.0$ AT 820 GMT ON DAY 12 MIN $=954.8$ AT 2230 GMT ON DAY 24
* WINDS (M/S) * MEAN $=4.3$ STD DEV $=3.6$ RESULTANT $=3.4$ FROM 160. CONSTANCY $=0.79$ MAX $=23.8$ FROM 116 . AT 200 GMT DAY 25
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $42.9 \%$ PRESSURE: $42.9 \%$ WINDS: $42.9 \%$
 $\begin{array}{lllllllllllllll}\text { PERCENT: } & 28 & 32 & 15 & 9 & 7 & 5 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0\end{array}$
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 1 & 0 & 0 & 1 & 1 & 5 & 25 & 28 & 11 & 8 & 6 & 6 & 0 & 3 & 3 & 3\end{array}$
$\begin{array}{llllr}\text { HR } & \text { PP } & \text { TT VV } & \text { DD } \\ & & \text { DAY } & 1 & \\ 00 & 971 & -17 & 2 & 233 \\ 03 & 972 & -14 & 0 & 0 \\ 06 & 973 & -16 & 3 & 189 \\ 09 & 973 & -18 & 4 & 188 \\ 12 & 973 & -17 & 0 & 0 \\ 15 & 973 & -18 & 0 & 0 \\ 18 & 972 & -17 & 3 & 315 \\ 21 & 971 & -12 & 2 & 247 \\ & & & \text { DAY } & 8 \\ & & & \end{array}$
DAY 8

03 986-12 6156
06 985-12 9146
$\begin{array}{lllll}09 & 984 & -13 & 3 & 163\end{array}$
$\begin{array}{lllll}12 & 983 & -16 & 5 & 137\end{array}$
$\begin{array}{lllll}15 & 982 & -14 & 3 & 120\end{array}$
$\begin{array}{lllll}18 & 981 & -15 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 980 & -14 & 1 \\ 127\end{array}$ DAY 15
$\begin{array}{llll}00 & 983-15 & 9 & 147\end{array}$
$\begin{array}{lllll}03 & 983 & -15 & 8 & 157\end{array}$
$\begin{array}{llll}06 & 984-14 & 9 & 144\end{array}$
$\begin{array}{llll}09 & 984-16 & 9 & 144\end{array}$
$\begin{array}{lllll}12 & 984 & -17 & 8 & 140\end{array}$
$\begin{array}{lllll}15 & 984 & -17 & 7 & 126\end{array}$
$\begin{array}{lllll}18 & 984 & -17 & 6 & 136\end{array}$
$\begin{array}{lllll}21 & 984 & -17 & 6 & 130\end{array}$ DAY 22
$00 \quad 955-16 \quad 2246$
$\begin{array}{llll}03 & 953 & -14 & 6 \\ 284\end{array}$
$\begin{array}{llll}06 & 953-14 & 1 & 305\end{array}$
$\begin{array}{llll}09 & 953 & -15 & 284\end{array}$
$\begin{array}{llll}12 & 953 & -15 & 5 \\ 279\end{array}$
$\begin{array}{lllll}15 & 954 & -15 & 5 & 167\end{array}$
$\begin{array}{llll}18 & 954-15 & 2 & 277\end{array}$
$\begin{array}{lll}21 & 954-13 \quad 4234\end{array}$ DAY 29
$\begin{array}{llll}00 & 966-12 & 5 & 119\end{array}$
$\begin{array}{llll}03 & 966 & -11 & 5 \\ 347\end{array}$
$\begin{array}{llll}06 & 966-13 & 9 & 300\end{array}$

| 09 | 965 | -14 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}12 & 965-15 & 6 & 267\end{array}$
$\begin{array}{llll}15 & 965-17 & 4 & 257\end{array}$
18 964-15 5253
$21 \quad 964-13 \quad 5295$

PP TT WV DD PP TT VV DD DAY 3
962-12 3167
$\begin{array}{llll}964 & -11 & 6 & 167\end{array}$
965-12 5154
966-12 $\quad 3171$
967-13 1247
969-14 7151
$971-156139$
$974-16 \quad 6140$ DAY 10
971-16 $5 \quad 71$
970-13 $0 \quad 0$
$\begin{array}{llll}968 & -14 & 3137\end{array}$
967-13 2170
967-14 3164
965-11 3127
966-11 1127
$\begin{array}{llll}966 & -12 & 8 & 147\end{array}$ DAY 17
982-20 8146
982-20 8140
982 -20 8142
981-19 7144
$981-204135$
$980-20 \quad 2125$
$979-21 \quad 4139$
978 -20 2143 DAY 24
955-10 21133
961-11 18132
966-11 13149
968-12 12151
968-13 6154
968-14 5164
968-12 5150
967-10 6147 DAY 31
965-15 2127
965-13 2115
964-12 1109
963-16 4126
963-18 4130
963-18 6136
962-17 4127
962-17 6125

| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP | TT | N | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 974 | -14 | 5 | 116 | 972 | -10 | 2 | 236 | 969 | -7 | 9 | 184 | 977 | -9 | 8 | 130 |
| 975 | -13 | 5 | 157 | 971 | -14 | 5 | 137 | 968 | -6 | 8 | 184 | 979 | -8 | 8 | 156 |
| 975 | -13 | 6 | 154 | 971 | -10 | 3 | 149 | 969 | -9 | 0 | 0 | 980 | -8 | 10 | 157 |
| 974 | -13 | 4 | 174 | 971 | -13 | 0 | 0 | 971 | -10 | 3 | 168 | 982 | -10 | 10 | 146 |
| 974 | -13 | 2 | 192 | 970 | -13 | 2 | 129 | 972 | -9 | 8 | 156 | 982 | -12 | 13 | 158 |
| 973 | -12 | 0 | 0 | 970 | -11 | 2 | 129 | 973 | -10 | 4 | 165 | 984 | -12 | 9 | 158 |
| 973 | -12 | 2 | 196 | 969 | -10 | 5 | 213 | 974 | -7 | 2 | 322 | 984 | -12 | 14 | 154 |
| 972 | -11 | 2 | 198 | 969 | -8 | 1 | 90 | 975 | -6 | 3 | 164 | 985 | -13 | 12 | 63 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 967 | -11 | 5 | 135 | 971 | -7 | 13 | 184 | 972 | -6 | 4 | 102 | 973 | -11 | 3 | 113 |
| 968 | -11 | 2 | 127 | 972 | -8 | 2 | 274 | 973 | -9 | 5 | 164 | 974 | -11 | 8 | 147 |
| 969 | -12 | 4 | 225 | 972 | -7 | 6 | 344 | 973 | -8 | 6 | 144 | 974 | -12 | 3 | 142 |
| 971 | -11 | 3 | 64 | 973 | -9 | 2 | 345 | 973 | -9 | 7 | 157 | 976 | -14 | 7 | 158 |
| 973 | -12 | 4 | 23 | 971 | -7 | 11 | 171 | 972 | -9 | 6 | 171 | 977 | -15 | 7 | 174 |
| 972 | -10 | 13 | 185 | 971 | -7 | 12 | 182 | 971 | -11 | 7 | 160 | 978 | -14 | 6 | 189 |
| 972 | -10 | 17 | 188 | 971 | -6 | 13 | 178 | 971 | -12 | 11 | 149 | 980 | -16 | 4 | 115 |
| 972 | -8 | 13 | 180 | 971 | -5 | 13 | 189 | 972 | -11 | 12 | 150 | 981 | -15 | 8 | 143 |
|  | Day | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 977 | -20 | 5 | 142 | 978 | -21 | 5 | 126 | 978 | -19 | 2 | 286 | 965 | -17 | 2 | 260 |
| 976 | -20 | 5 | 118 | 978 | -21 | 6 | 133 | 976 | -18 | 2 | 337 | 963 | -17 | 3 | 88 |
| 976 | -20 | 6 | 123 | 979 | -21 | 4 | 136 | 975 | -20 | 3 | 338 | 961 | -19 | 3 | 112 |
| 976 | -21 | 7 | 143 | 979 | -22 | 5 | 137 | 974 | -21 | 0 | 0 | 960 | -21 | 3 | 119 |
| 976 | -21 | 5 | 130 | 979 | -22 | 1 | 129 | 972 | -22 | 0 | 0 | 959 | -22 | 5 | 156 |
| 976 | -21 | 5 | 143 | 979 | -22 | 2 | 139 | 971 | -21 | 1 | 181 | 958 | -23 | 5 | 146 |
| 977 | -21 | 5 | 139 | 979 | -22 | 0 | 0 | 970 | -21 | 0 | 0 | 958 | -21 |  | 112 |
| 977 | -21 | 6 | 127 | 979 | -19 |  | 243 | 968 | -18 | 0 | 0 | 957 | -19 |  | 201 |
|  |  | 25 |  |  |  | 26 |  |  |  | 27 |  |  | DAY | 28 |  |
| 967 | -10 |  | 146 | 967 | -13 | 5 | 140 | 968 | -12 | 6 | 122 | 963 | -12 | 6 | 127 |
| 967 | -9 | 6 | 147 | 967 | -13 | 8 | 137 | 967 | -12 | 10 | 122 | 963 | -12 | 8 | 127 |
| 967 | -9 | 7 | 150 | 968 | -15 | 10 | 133 | 968 | -12 | 13 | 142 | 963 | -13 | 7 | 136 |
| 968 | -11 | 5 | 172 | 969 | -15 | 7 | 144 | 968 | -13 | 9 | 154 | 964 | -14 | 8 | 149 |
| 967 | -12 | 0 | 0 | 969 | -17 | 8 | 144 | 967 | -13 | 4 | 188 | 965 | -14 | 8 | 146 |
| 968 | -13 | 0 | 0 | 968 | -16 | 0 | 0 | 966 | -12 | 3 | 253 | 966 | -14 | 5 | 136 |
| 968 | -13 |  | 147 | 968 | -14 | 5 | 150 | 964 | -11 |  | 225 | 966 | -14 |  | 149 |
| 968 | -14 | 2 | 150 | 968 | -13 | 4 | 132 | 963 | -13 | 6 | 127 | 967 | -13 | 4 | 130 |

## MONTHLY SUMMARY

* TEMPERATURE (C)* MEAN $=-13.8$ STD DEV $=4.2$ maX $=-4.5$ at 2150 GMT ON DAY 12 MIN $=-22.9$ at 1530 GMt ON DAY 21
* THETA (K) * MEAN $=261.63$
* PRESSURE (MB) * MEAN $=970.3$ StD dEV $=8.3$ MAX $=985.7$ at 250 GMt ON DAY 8 MIN $=945.7$ AT 1640 GMt ON dAY 23
* WINDS (M/S) * MEAN $=5.4$ STD DEV $=4.0$ RESULTANT $=4.3$ FROM 154. CONSTANCY $=0.79$ MAX $=31.9$ FROM 135 . AT 2240 GMT DAY 23 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 $\begin{array}{lrrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 1 & 1 & 0 & 1 & 1 & 8 & 35 & 22 & 11 & 3 & 3 & 4 & 3 & 3 & 2 & 2\end{array}$

HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 961 & -16 & 5\end{array} 136$
$\begin{array}{lllll}03 & 960 & -15 & 7 & 127\end{array}$
$\begin{array}{lllll}06 & 959 & -15 & 7 & 136\end{array}$
$09 \quad 959-16 \quad 6 \quad 153$
$\begin{array}{llllll}12 & 959 & -17 & 10 & 142\end{array}$
$\begin{array}{lllll}15 & 959 & -19 & 14 & 147\end{array}$
$\begin{array}{lllll}18 & 960 & -19 & 11 & 139\end{array}$
$\begin{array}{lllll}21 & 962 & -18 & 8 & 127\end{array}$ DAY 8
$\begin{array}{lllll}00 & 979 & -3 & 10 & 129\end{array}$
$\begin{array}{lllll}03 & 978 & -3 & 5 & 136\end{array}$
$\begin{array}{lllll}06 & 975 & -4 & 3 & 111\end{array}$
$\begin{array}{lllll}09 & 973 & -6 & 4 & 119\end{array}$
$\begin{array}{lllll}12 & 972 & -4 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 970 & -5 & 7 & 291\end{array}$
$\begin{array}{lllll}18 & 971 & -3 & 6 & 307\end{array}$
$\begin{array}{llll}21 & 975 & -2 & 2357\end{array}$ DAY 15
$\begin{array}{lllll}00 & 976 & -3 & 14 & 136\end{array}$ $\begin{array}{lllll}03 & 976 & -2 & 1 & 241\end{array}$ $\begin{array}{lllll}06 & 975 & -3 & 3 & 279\end{array}$ $\begin{array}{lllll}09 & 974 & -2 & 1 & 213\end{array}$ $\begin{array}{lllll}12 & 974 & -1 & 6 & 136\end{array}$ $\begin{array}{lllll}15 & 975 & -4 & 5 & 175\end{array}$ $\begin{array}{lllll}18 & 977 & -4 & 5 & 198\end{array}$ $\begin{array}{lllll}21 & 978 & -3 & 3 & 281\end{array}$ DAY 22

| 00 | 992 | 1 | 8 | 146 |
| :--- | :--- | :--- | :--- | :--- |
| 03 | 993 | 1 | 8 | 136 |
| 06 | 994 | 1 | 9 | 158 |
| 09 | 995 | -1 | 6 | 158 |
| 12 | 995 | -1 | 5 | 157 |
| 15 | 996 | -2 | 5 | 158 |
| 18 | 997 | -1 | 8 | 142 |
| 21 | 997 | -1 | 6 | 123 |
| DAY |  |  |  |  |
| 00 | 983 | -9 | 9 | 136 |
| 03 | 984 | -8 | 8 | 133 |
| 06 | 985 | -8 | 6 | 127 |
| 09 | 986 | -9 | 4 | 140 |
| 12 | 987 | -9 | 3 | 126 |
| 15 | 988 | -9 | 5 | 147 |
| 18 | 988 | -8 | 3 | 104 |
| 21 | 990 | -8 | 4 | 120 |

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{llll}963 & -17 & 9 & 116\end{array}$
$\begin{array}{llll}964 & -16 & 9 & 106\end{array}$
$\begin{array}{llll}965 & -17 & 7 & 130\end{array}$
965-18 4119
965-20 9144
964-19 7150
963-17 1277
$\begin{array}{llll}962 & -17 & 2 & 26\end{array}$ DAY 9
$\begin{array}{llll}979 & -3 & 9 & 149\end{array}$
$\begin{array}{llll}982 & -2 & 7 & 120\end{array}$
$\begin{array}{llll}984 & -3 & 5 & 73\end{array}$
$\begin{array}{llll}985 & -4 & 3 & 68\end{array}$
$\begin{array}{llll}986 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}987 & -4 & 5 & 105\end{array}$
$\begin{array}{llll}987 & -4 & 5 & 94\end{array}$
$\begin{array}{llll}986 & -3 & 4 & 271\end{array}$ DAY 16
977012133
$977 \quad 313143$
$\begin{array}{llll}978 & -3 & 13 & 101\end{array}$
$\begin{array}{llll}980 & -4 & 4 & 192\end{array}$
$\begin{array}{llll}980 & -4 & 10 & 113\end{array}$
$\begin{array}{llll}980 & -3 & 6 & 147\end{array}$
$\begin{array}{llll}979 & -4 & 7 & 137\end{array}$
$\begin{array}{llll}978 & -3 & 8 & 153\end{array}$ DAY 23
$\begin{array}{llll}998 & -1 & 6 & 126\end{array}$
$\begin{array}{llll}997 & -1 & 7 & 133\end{array}$
$\begin{array}{llll}997 & -1 & 5 & 149\end{array}$
$\begin{array}{llll}997 & -2 & 6 & 137\end{array}$
$998-3 \quad 4127$
$\begin{array}{llll}998 & -3 & 4 & 158\end{array}$
$\begin{array}{llll}999 & -3 & 5 & 133\end{array}$
1000 -3 7119 DAY 30
$\begin{array}{llll}990 & -6 & 3 & 120\end{array}$
$\begin{array}{llll}991 & -4 & 2 & 9\end{array}$
$\begin{array}{llll}990 & -5 & 4 & 247\end{array}$
$\begin{array}{llll}991 & -5 & 3 & 315\end{array}$
$\begin{array}{llll}991 & -6 & 3 & 336\end{array}$
$\begin{array}{llll}990 & -6 & 3 & 323\end{array}$
$\begin{array}{llll}990 & -6 & 3 & 305\end{array}$

## DAY 3

960-16 3350
959-15 4310
959-15 4251
959-16 3253
959-18 3230
960-17 0
$\begin{array}{llll}959 & -14 & 3 & 241\end{array}$
958-12 3260
DAY 10

| 987 | -2 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}987 & -3 & 5 & 160\end{array}$
$\begin{array}{llll}986 & -4 & 7 & 154\end{array}$
$\begin{array}{llll}988 & -5 & 7175\end{array}$
$\begin{array}{llll}988 & -6 & 5 & 140\end{array}$
$\begin{array}{llll}988 & -5 & 5 & 142\end{array}$
$\begin{array}{llll}987 & -4 & 6 & 163\end{array}$
$\begin{array}{llll}986 & -2 & 7126\end{array}$ DAY 17
$\begin{array}{llll}977 & -1 & 8 & 149\end{array}$
$\begin{array}{llll}975 & -1 & 11 & 137\end{array}$
$\begin{array}{llll}975 & -2 & 5 & 171\end{array}$
$\begin{array}{llll}974 & -2 & 5 & 144\end{array}$
$\begin{array}{llll}974 & -2 & 5 & 129\end{array}$
$\begin{array}{llll}974 & -4 & 4 & 149\end{array}$
$\begin{array}{llll}974 & -2 & 6.146\end{array}$
$\begin{array}{llll}974 & -1 & 5 & 125\end{array}$
DAY 24
$999-2 \quad 8 \quad 126$
$999-210147$
$998-211136$
$999-210142$
$999-310156$
$\begin{array}{llll}998 & -5 & 7 & 133\end{array}$
$\begin{array}{llll}998 & -5 & 6 & 143\end{array}$
$\begin{array}{llll}998 & -4 & 7 & 147\end{array}$
$\begin{array}{lllllllll}21 & 990 & -8 & 4 & 120 & 989 & -4 & 5 & 354\end{array}$

PP TT VV DD

$$
\text { DAY } 4
$$

958-12 3357
958-12 6106
$\begin{array}{llll}959 & -11 & 3 & 165\end{array}$
957-12 3288
$\begin{array}{llll}955 & -9 & 1 & 232\end{array}$
$\begin{array}{llll}956 & -9 & 1 & 125\end{array}$
$\begin{array}{lllll}956 & -7 & 10 & 129\end{array}$
$\begin{array}{llll}958 & -7 & 3 & 129\end{array}$ DAY 11
$\begin{array}{llll}986 & -2 & 7 & 144\end{array}$
$\begin{array}{llll}985 & -1 & 11 & 149\end{array}$
$\begin{array}{llll}984 & -1 & 12 & 144\end{array}$
$\begin{array}{llll}983 & -3 & 9 & 137\end{array}$
$\begin{array}{lllll}984 & -5 & 12 & 143\end{array}$
$\begin{array}{lllll}984 & -5 & 14 & 143\end{array}$
$\begin{array}{llll}984 & -4 & 11 & 147\end{array}$
$\begin{array}{llll}984 & -3 & 10 & 147\end{array}$ DAY 18
$\begin{array}{llll}974 & -1 & 4 & 139\end{array}$
$\begin{array}{llll}974 & -2 & 2 & 78\end{array}$
$\begin{array}{llll}973 & -1 & 5 & 286\end{array}$
$\begin{array}{llll}973 & -3 & 3 & 313\end{array}$
$\begin{array}{llll}974 & -3 & 2 & 244\end{array}$
$\begin{array}{llll}975 & -3 & 4 & 225\end{array}$
$975-2 \quad 7296$
$\begin{array}{llll}976 & -1 & 6 & 91\end{array}$
DAY 25
$\begin{array}{llll}997 & -2 & 6 & 137\end{array}$
$\begin{array}{lllll}997 & -1 & 3 & 123\end{array}$
$996 \quad 0 \quad 3133$
$\begin{array}{llll}996 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}995 & -3 & 3 & 136\end{array}$
$\begin{array}{llll}995 & -2 & 3 & 137\end{array}$
$995-2 \quad 4130$
$\begin{array}{llll}995 & -3 & 2 & 123\end{array}$

|  |  | wv |
| :---: | :---: | :---: |
| 960 | -4 | 10 |
| 60 | -3 | 10 |
| 62 | 1 | 11 |
| 65 | -3 | 6164 |
| 966 | -6 | 309 |
| 968 | -6 | 2113 |
| 970 | -6 | 4319 |
| 972 | -5 | 2323 |
|  | DAY | 12 |
| 984 | -3 | 9164 |
| 984 | -2 | 10 |
| 984 | -2 | 81 |
| 984 | -4 | 10 |
| 984 | -6 | 150 |
| 984 | -7 | 7142 |
| 984 | -6 | 10150 |
| 983 | -6 | 6144 |
|  | DAY | 19 |
| 976 | -1 | 11106 |
| 977 | 0 | 14 |
| 979 | -1 | 6165 |
| 80 | -2 | 6101 |
| 981 |  | 31 |
| 981 | 2 | 10 |
| 981 | 3 | 10 |
| 982 | 2 | 8 |
|  | DAY | 26 |
| 99 | -2 | 21 |
| 994 | -2 | 31 |
| 993 | -3 | 31 |
| 992 | -3 | 3116 |
| 992 | -5 | 00 |
| 991 | -5 | 63 |
| 990 | -5 | 3254 |
| 89 | -5 | 2 |

PP TT VV DD DAY 7
$\begin{array}{llll}973 & -3 & 9 & 136\end{array}$
$\begin{array}{llllllll}973 & -6 & 10 & 106 & 978 & -6 & 8 & 137\end{array}$
$\begin{array}{llllllll}974 & -6 & 9 & 111 & 978 & -2 & 3 & 156\end{array}$
$\begin{array}{llllllll}976 & -8 & 7 & 170 & 978 & -6 & 9 & 123\end{array}$
$\begin{array}{llllllll}976 & -8 & 4 & 164 & 980 & -6 & 8 & 130\end{array}$
$\begin{array}{llllllll}975 & -7 & 5 & 168 & 980 & -5 & 7 & 137\end{array}$
$\begin{array}{llllllll}976 & -5 & 2 & 139 & 980 & -2 & 15 & 163\end{array}$
$\begin{array}{llllllll}976 & -5 & 7 & 151 & 980 & -1 & 14 & 191\end{array}$ DAY 14
$980-511111$
$\begin{array}{llll}979 & -4 & 7 & 90\end{array}$
$\begin{array}{llll}978 & -3 & 4 & 133\end{array}$
$\begin{array}{llll}980 & -6 & 7 & 151\end{array}$

| 979 | -6 | 3 |
| :--- | :--- | :--- | 230

$\begin{array}{llll}978 & -5 & 3 & 246\end{array}$
$\begin{array}{llll}978 & -4 & 4 & 140\end{array}$
$\begin{array}{llll}976 & -2 & 1 & 102\end{array}$ DAY 21
$987 \quad 112146$
$\begin{array}{llll}988 & 3 & 7 & 164\end{array}$
$987 \quad 112140$
$988 \quad 210144$
$988 \quad 1 \quad 9157$
$989 \quad 1 \quad 8164$
$990 \quad 2 \quad 7150$
$991 \quad 111133$ DAY 28
$\begin{array}{llll}979 & -3 & 3 & 9\end{array}$
$\begin{array}{llll}978 & -3 & 4350\end{array}$
$\begin{array}{llll}977 & -5 & 5 & 113\end{array}$
$\begin{array}{llll}978 & -7 & 5 & 125\end{array}$
$\begin{array}{llll}978 & -9 & 7 & 133\end{array}$
979-11 11136
$\begin{array}{llll}981 & -11 & 8 & 135\end{array}$
982-11 7132

* temperature ( $C$ ) * mean $=-4.9$ Std dev $=4.9$ max $=3.5$ at 40 GMt on day 16 min $=-20.0$ at 1150 gmt on day 2
* Theta (K) * MEAN $=269.79$
* PRESSURE (MB) * MEAN $=980.3$ STD DEV $=11.1$ MAX $=999.8$ AT 2300 GMT ON DAY 23 MIN $=954.4$ AT 1300 GMT ON DAY 4
* WINDS (M/S) * MEAN $=6.0$ STD DEV $=3.3$ RESULTANT $=4.6$ FROM 141. CONSTANCY $=0.77$ MAX $=19.6$ FROM 163. AT 1830 GMT DAY 7
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$
 $\begin{array}{llllllllllllllllllll} \\ \text { PERCENT: } & 9 & 23 & 24 & 18 & 13 & 10 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllllll}\text { PERCENT } & 4 & 0 & 0 & 2 & 3 & 14 & 36 & 21 & 2 & 2 & 2 & 4 & 2 & 2 & 4 & 1\end{array}$

DEC 97
HR PP TT VV DD $\begin{array}{lllll} & & \text { DAY } & 1 \\ 00 & 988 & -4 & 7354\end{array}$ $\begin{array}{lllll}03 & 988 & -3 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 988 & -4 & 2 & 5\end{array}$
$\begin{array}{lllll}09 & 986 & -4 & 4 & 336\end{array}$
$\begin{array}{lllll}12 & 986 & -6 & 4 & 300\end{array}$
$\begin{array}{lllll}15 & 985 & -6 & 3 & 333\end{array}$
$\begin{array}{lllll}18 & 985 & -5 & 3 & 352\end{array}$
$\begin{array}{llll}21 & 984 & -3 & 2358\end{array}$ DAY 8
$\begin{array}{lllll}00 & 995 & -7 & 6 & 133\end{array}$
$\begin{array}{lllll}03 & 995 & -7 & 6 & 133\end{array}$
$\begin{array}{lllll}06 & 994 & -7 & 7 & 129\end{array}$
$\begin{array}{lllll}09 & 994 & -7 & 6 & 137\end{array}$
$\begin{array}{lllll}12 & 994 & -8 & 5 & 132\end{array}$
$\begin{array}{lllll}15 & 993 & -8 & 3 & 140\end{array}$
$\begin{array}{lllll}18 & 993 & -8 & 3 & 127\end{array}$
$\begin{array}{lllll}21 & 992 & -8 & 4 & 127\end{array}$ DAY 15
$\begin{array}{lllll}00 & 983 & -3 & 4 & 133\end{array}$
$\begin{array}{lllll}03 & 984 & -2 & 3 & 352\end{array}$
$\begin{array}{lllll}06 & 985 & -1 & 2 & 8\end{array}$
$\begin{array}{lllll}09 & 985 & -1 & 3 & 316\end{array}$
$\begin{array}{lllll}12 & 985 & -2 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 984 & -2 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 984 & -2 & 2 & 350\end{array}$
$\begin{array}{llll}21 & 983 & -3 & 3\end{array} 341$
DAY 22
$\begin{array}{lllll}00 & 985 & -1 & 5 & 358\end{array}$
$\begin{array}{lllll}03 & 984 & -1 & 3 & 2\end{array}$
$\begin{array}{lllll}06 & 983 & -1 & 2 & 4\end{array}$
$\begin{array}{lllll}09 & 982 & -1 & 3 & 322\end{array}$
$\begin{array}{lllll}12 & 982 & -1 & 3 & 241\end{array}$
$\begin{array}{lllll}15 & 981 & 1 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 980 & 1 & 1\end{array} 264$
$\begin{array}{lllll}21 & 980 & 2 & 21\end{array}$ DAY 29
$\begin{array}{lllll}00 & 981 & -1 & 4 & 358\end{array}$
$\begin{array}{lllll}03 & 980 & -2 & 4 & 341\end{array}$
$\begin{array}{llll}06 & 979 & -1 & 5 \\ 344\end{array}$
$09 \quad 978 \quad 0 \quad 4336$
$\begin{array}{lllll}12 & 978 & -1 & 1 & 357\end{array}$
$\begin{array}{lllll}15 & 978 & -1 & 2 & 147\end{array}$
$\begin{array}{lllll}18 & 978 & 1 & 4 & 149\end{array}$
$\begin{array}{llll}21 & 979 & 1 & 5 \\ 142\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{llll}984 & -4 & 4 & 18\end{array}$
$\begin{array}{llll}983 & -3 & 5 & 358\end{array}$
$\begin{array}{llll}983 & -4 & 5350\end{array}$
$\begin{array}{llll}983 & -4 & 0 & 0\end{array}$
$\begin{array}{lll}984 & -4 & 264\end{array}$
$\begin{array}{llll}984 & -5 & 3 & 272\end{array}$
$\begin{array}{lll}984 & -4 & 4341\end{array}$
$\begin{array}{lll}986 & -4 & 2341\end{array}$ DAY 9
$\begin{array}{llll}991 & -8 & 5 & 133\end{array}$
$\begin{array}{llll}990 & -7 & 3 & 122\end{array}$
$\begin{array}{llll}989 & -7 & 3 & 116\end{array}$
$\begin{array}{llll}988 & -8 & 3 & 129\end{array}$
$\begin{array}{lll}987 & -9 & 2126\end{array}$
$\begin{array}{llll}986 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}986 & -8 & 1111\end{array}$
$\begin{array}{llll}985 & -6 & 1 & 116\end{array}$ DAY 16
$\begin{array}{llll}982 & -5 & 4358\end{array}$
$\begin{array}{llll}981 & -3 & 1 & 347\end{array}$
$981 \quad 0 \quad 2 \quad 61$
$\begin{array}{llll}980 & -5 & 7 & 130\end{array}$
$\begin{array}{llll}980 & -6 & 9 & 143\end{array}$
$\begin{array}{llll}981 & -6 & 11 & 147\end{array}$
$\begin{array}{llll}982 & -5 & 8 & 165\end{array}$
$\begin{array}{lll}982 & -4 & 7136\end{array}$ DAY 23
$979 \quad 1 \quad 1360$
$\begin{array}{llll}978 & 1 & 3 & 85\end{array}$
$\begin{array}{llll}978 & 0 & 3 & 90\end{array}$
$\begin{array}{llll}977 & -1 & 3 & 123\end{array}$
$\begin{array}{llll}978 & -1 & 1 & 358\end{array}$
$\begin{array}{llll}977 & -2 & 1 & 123\end{array}$
$\begin{array}{llll}977 & -2 & 2 & 5\end{array}$
$\begin{array}{lll}978 & 3 & 2357\end{array}$ DAY 30
$980 \quad 0 \quad 3140$
$\begin{array}{llll}981 & -2 & 6140\end{array}$
$\begin{array}{llll}982 & -1 & 6144\end{array}$
$\begin{array}{llll}982 & -1 & 5 & 140\end{array}$
$\begin{array}{llll}983 & -2 & 6 & 127\end{array}$
$\begin{array}{llll}983 & -2 & 3 & 135\end{array}$
$\begin{array}{llll}983 & -2 & 3 & 130\end{array}$
$\begin{array}{llll}983 & -2 & 3 & 130 \\ 983 & -2 & 3 & 130\end{array}$
$\begin{array}{cc}\text { PT VV } \\ \text { DAY } & 3\end{array}$
$\begin{array}{llll}987 & -6 & 5 & 104\end{array}$
$\begin{array}{llll}988 & -5 & 2 & 106\end{array}$
$\begin{array}{lll}988 & -4 & 1347\end{array}$
$\begin{array}{llll}987 & -5 & 3 & 292\end{array}$
$\begin{array}{llll}988 & -6 & 7150\end{array}$
$\begin{array}{llll}988 & -8 & 6 & 130\end{array}$
$\begin{array}{llll}989 & -8 & 5 & 129\end{array}$
$\begin{array}{llll}988 & -4 & 2 & 8\end{array}$ DAY 10
$\begin{array}{llll}984 & -6 & 4 & 130\end{array}$
$\begin{array}{llll}983 & -4 & 3 & 88\end{array}$
$\begin{array}{llll}982 & -7 & 5 & 123\end{array}$
$\begin{array}{llll}982 & -9 & 7130\end{array}$
$\begin{array}{llll}982 & -9 & 6 & 135\end{array}$
982-10 6137
982-10 $8 \quad 137$
983-10 8123 DAY 17
$\begin{array}{llll}983 & -4 & 6 & 123\end{array}$
$\begin{array}{llll}982 & -4 & 4 & 127\end{array}$
$\begin{array}{llll}981 & -1 & 2 & 45\end{array}$
$\begin{array}{llll}980 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}979 & -3 & 1 & 136\end{array}$
$\begin{array}{llll}979 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}978 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}978 & -5 & 3 & 123\end{array}$ DAY 24
$978 \quad 1 \quad 3358$
$979 \quad 2 \quad 2358$
$\begin{array}{llll}981 & 2 & 1 & 82\end{array}$
983100
$\begin{array}{llll}984 & 1 & 1 & 168\end{array}$
985100
$986 \quad 0 \quad 3125$
$986 \quad 0 \quad 5136$

PP TT VV DD DAY 4
$\begin{array}{llll}988 & -5 & 5 & 113\end{array}$
$\begin{array}{llll}988 & -6 & 8 & 142\end{array}$
$\begin{array}{llll}989 & -6 & 9 & 136\end{array}$
$\begin{array}{llll}990 & -8 & 7140\end{array}$
$\begin{array}{llll}991 & -7 & 6137\end{array}$
$\begin{array}{llll}992 & -8 & 5 & 133\end{array}$
$\begin{array}{llll}994 & -7 & 5 & 132\end{array}$
$\begin{array}{lll}996 & -6 \quad 8150\end{array}$
DAY 11
983-10 8136
983-10 8122
983-10 9129
983-11 6130
982-10 4154
981-10 3133
$\begin{array}{llll}981 & -9 & 6 & 149\end{array}$
$\begin{array}{llll}980 & -8 & 6 & 149\end{array}$

$$
\text { DAY } 18
$$

$\begin{array}{llll}979 & -7 & 3 & 116\end{array}$
$\begin{array}{llll}979 & -6 & 3120\end{array}$
$\begin{array}{llll}980 & -6 & 7129\end{array}$
$\begin{array}{llll}980 & -6 & 10 & 135\end{array}$
$\begin{array}{llll}982 & -8 & 9 & 144\end{array}$
$\begin{array}{llll}982 & -7 & 5 & 136\end{array}$
$\begin{array}{llll}982 & -6 & 5 & 143\end{array}$
$\begin{array}{llll}982 & -5 \quad 4132\end{array}$
DAY 25
$986 \quad 0 \quad 4147$
98606136
$986 \quad 0 \quad 9135$
$\begin{array}{llll}987 & -2 & 7140\end{array}$
$\begin{array}{llll}987 & -1 & 4 & 165\end{array}$
$\begin{array}{llll}986 & -2 & 2157\end{array}$
98514254 DAY 31
$\begin{array}{llll}982 & -2 & 4 & 146\end{array}$
$\begin{array}{llll}982 & -1 & 3 & 108\end{array}$
$\begin{array}{llll}981 & -1 & 2 & 122\end{array}$
$\begin{array}{llll}981 & -2 & 1 & 125\end{array}$
$\begin{array}{llll}981 & -3 & 2 & 118\end{array}$
$\begin{array}{llll}981 & -3 & 3 & 125\end{array}$
$\begin{array}{llll}981 & -3 & 4 & 116\end{array}$

PP TT VV DD PP TT WV DD DAY 5
$\begin{array}{llll}997 & -6 \quad 10137\end{array}$
$\begin{array}{llll}997 & -6 & 7 & 132\end{array}$
$\begin{array}{llll}996 & -5 & 4 & 153\end{array}$
$\begin{array}{llll}995 & -6 & 2 & 97\end{array}$
$\begin{array}{llll}994 & -7 & 2119\end{array}$
$\begin{array}{llllllll}992 & -6 & 0 & 0 & 986 & -9 & 6 & 147\end{array}$
$\begin{array}{lllllllll}990 & -5 & 4 & 317 & 987 & -8 & 8 & 136\end{array}$
$\begin{array}{llllllll}989 & -5 & 6 & 317 & 988 & -7 & 6 & 129\end{array}$ DAY 12
$\begin{array}{llll}979 & -6 & 5 & 126\end{array}$ $\begin{array}{llll}977 & -5 & 6 & 90\end{array}$ $\begin{array}{llll}977 & -5 & 6 & 95\end{array}$ $\begin{array}{llll}976 & -7 & 5 & 101\end{array}$ $\begin{array}{llll}976 & -6 & 0 & 0\end{array}$ $\begin{array}{llll}975 & -6 & 2 & 81\end{array}$ $\begin{array}{llll}974 & -5 & 220\end{array}$ $\begin{array}{llll}974 & -5 & 3 & 144\end{array}$ DAY 19

| 981 | -5 | 4 | 98 |
| :--- | :--- | :--- | ---: |
| 981 | -4 | 3 | 360 |
| 980 | -4 | 3 | 279 |
| 979 | -6 | 3 | 345 |
| 979 | -6 | 3 | 306 |
| 978 | -6 | 3 | 299 |
| 977 | -7 | 2 | 360 |
| 977 | -6 | 4 | 343 | DAY 26

$982 \quad 1 \quad 3358$
$980 \quad 3 \quad 2357$

DAY 13 DAY 6
$\begin{array}{lll}987 & -4 & 5331\end{array}$
$\begin{array}{llll}986 & -5 & 25\end{array}$
$\begin{array}{llll}986 & -5 & 3 & 112\end{array}$
$\begin{array}{lll}986 & -7 & 6156\end{array}$
$\begin{array}{llll}986 & -8 & 6 & 133\end{array}$
$\begin{array}{lll}973 & -3 & 2352\end{array}$
$\begin{array}{llll}971 & -1 & 5 & 317\end{array}$
$\begin{array}{llll}971 & -2 & 4351\end{array}$
$\begin{array}{llll}971 & -3 & 3 & 90\end{array}$
$\begin{array}{llll}971 & -5 & 4 & 135\end{array}$
$\begin{array}{llll}970 & -3 & 2 & 189\end{array}$
$\begin{array}{llll}970 & -3 & 1 & 248\end{array}$
$970 \quad 0 \quad 2160$ DAY 20
$\begin{array}{lll}977 & -3 & 4327\end{array}$
$\begin{array}{lll}977 & -2 & 2109\end{array}$
$\begin{array}{llll}978 & -1 & 0 & 0\end{array}$
$\begin{array}{lll}980 & -4 & 2126\end{array}$
$\begin{array}{llll}981 & -4 & 6 & 146\end{array}$
$983-4 \quad 6 \quad 133$
$\begin{array}{llll}985 & -5 & 6 & 133\end{array}$
986 -6 7113 DAY 27
$975 \quad 1 \quad 3101$
$\begin{array}{llll}976 \quad 4 \quad 2 & 98\end{array}$
$\begin{array}{llll}976 & 3 & 2 & 75\end{array}$
$977 \quad 2 \quad 2355$
97724316
$978 \quad 1 \quad 3298$
$978 \quad 1 \quad 2343$
$979 \quad 2 \quad 3351$

PP TT VV DD DAY 7
$\begin{array}{llll}989 & -7 & 8 & 130\end{array}$
$\begin{array}{llll}990 & -8 & 7 & 136\end{array}$
$\begin{array}{llll}991 & -8 & 8 & 146\end{array}$
$\begin{array}{llll}992 & -8 & 6 & 150\end{array}$
$\begin{array}{llll}993 & -9 & 7147\end{array}$
$\begin{array}{llll}994 & -9 & 7 & 137\end{array}$
$\begin{array}{llll}995 & -9 & 6 & 147\end{array}$
$\begin{array}{llll}995 & -8 & 7 & 147\end{array}$ DAY 14
$\begin{array}{llll}970 & -3 & 4 & 130\end{array}$
$971-4 \quad 5115$
$\begin{array}{llll}972 & -5 & 5 & 137\end{array}$
$\begin{array}{lll}973 & -5 & 5147\end{array}$
$\begin{array}{llll}975 & -5 & 6 & 142\end{array}$
$\begin{array}{llll}976 & -5 & 5 & 147\end{array}$
$\begin{array}{llll}978 & -5 & 9 & 146\end{array}$
$\begin{array}{llll}981 & -4 & 8 & 132\end{array}$
DAY 21
$\begin{array}{llll}987 & -5 & 8 & 142\end{array}$
$\begin{array}{llll}988 & -5 & 6 & 111\end{array}$
$\begin{array}{llll}988 & -4 & 4 & 126\end{array}$
$\begin{array}{llll}988 & -5 & 8 & 129\end{array}$
$\begin{array}{llll}988 & -6 & 6 & 132\end{array}$
$\begin{array}{llll}988 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}987 & -3 & 3 & 271\end{array}$
$\begin{array}{llll}986 & -1 & 4 & 243\end{array}$
DAY 28
$980 \quad 2 \quad 0 \quad 0$
$\begin{array}{llll}981 & 3 & 3 & 88\end{array}$
$982 \quad 1 \quad 3137$
$983 \quad 0 \quad 3126$
$\begin{array}{lll}983 & -1 & 2118\end{array}$
$983 \quad 0 \quad 2123$
$\begin{array}{llll}982 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}981 & -2 & 3 & 344\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-3.7$ Std dev $=3.3$ max $=4.2$ at 300 GMT ON day 27 min $=-10.9$ at 1430 GMt ON. dAY 11
* theta (K) * MEAN $=270.80$
* PRESSURE (MB) * MEAN $=982.8$ STD DEV $=5.6$ MAX $=997.1$ at 40 GMT ON DAY 5 MIN $=969.8$ at 1800 GMt ON DAY 13
* WINDS (M/S) * MEAN $=3.9$ STD DEV $=2.4$ RESULTANT $=2.3$ FROM 126. CONSTANCY $=0.57$ MAX $=13.0$ FROM 122. AT 500 GMT DAY 25 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW USW $W$ WNW NW NNW
PERCENT
$\begin{array}{llllllllllllllll}14 & 1 & 0 & 1 & 7 & 12 & 37 & 10 & 0 & 0 & 0 & 2 & 3 & 2 & 4 & 7\end{array}$


## FEB 97

HR PP TT VV DD

00
03
06
09
06
09
12
09
12
15
18
21
211000 -5 DAY 8
$\begin{array}{lll}00 & 983 & -7\end{array}$
$\begin{array}{lll}03 & 984 & -5\end{array}$
$\begin{array}{lll}06 & 985 & -4\end{array}$
$09 \quad 984-5$
$\begin{array}{lll}12 & 985 & -7\end{array}$
$\begin{array}{lll}15 & 986 & -8\end{array}$
$\begin{array}{lll}18 & 986 & -9\end{array}$
21 988-10

|  | DAY 15 |  |
| :--- | :--- | :--- |
| 00 |  |  |
| 03 | 987 | -8 |
| 06 | 985 | -8 |
| 09 | 986 | -9 |
| 12 | 987 | -11 |
| 15 | 989 | -12 |
| 18 | 988 | -12 |
| 21 | 989 | -11 |
|  | DAY 22 |  |

00 980-11
$03 \quad 980-10$
$\begin{array}{lll}06 & 980 & -9\end{array}$
$09 \quad 980-10$
12 981-11
15 981-13
18 981-15
21 980-15
$\begin{array}{rrrrrr}\text { PP TT VV DD } & \text { PP TT VV } & \text { DD } \\ \text { DAY } & 2 & & \text { DAY } & 3\end{array}$
1001 -2

| 1000 | 0 |  |
| :--- | :--- | :--- |
| 1000 | 0 |  |
|  |  |  |
| 1000 | -5 |  |
| 1000 | -5 |  |
| 1001 | -8 |  |
| 3 | DAY | 9 |
| 986 | -8 |  |
| 986 | -7 |  |
| 983 | -6 |  |
| 984 | -6 |  |
| 985 | -7 |  |
| 986 | -9 |  |
| 984 | -10 |  |
| 985 | -9 |  |
| DAY |  |  |

$989-7$
$989-6$
$989-8$
990-10
991-12
994-13
993-11
DAY 23
980-14
981-13
980-11
980-10
981-11
982-12
983-13
983-12
DAY 3

PP TT VV DD DAY 4 $1000-5$ $1000-3$ $1001-1$ 1001 -3 $1001-5$ $1002-7$

| 998 | -9 |
| :--- | :--- | :--- |


$\begin{array}{lll}\left.\text { PP } \begin{array}{c}\text { TT }\end{array}\right] \\ \text { DAY } & 6\end{array}$
PP TT VV DD DAY 7
$995 \quad-7$
$993-7$
$990-5$
$986-5$
$984-5$
$979-5$
$979 \quad-5$
$976-5$
DAY 12
$982 \quad 1$
9833
9843
9852
986-1
$987-4$
988 -
98

| DAY 19 |  |  |
| :--- | :--- | :---: |
| 958 | -5 |  |
| 955 | -4 |  |


| 974 | -2 | 980 | -3 |
| :--- | ---: | :--- | :--- |
| 973 | -1 | 979 | -3 |
| 974 | 0 | 978 | -3 |
| 977 | -1 | 979 | -4 |
| 977 | 0 | 980 | -7 |
| 978 | 0 | 980 | -8 |
| 980 | -2 | 982 | -8 |
| DAY 13 |  | DAY |  |
| 988 | -8 | 987 | -13 |
| 987 | -7 | 984 | -10 |
| 986 | -6 | 983 | -8 |
| 985 | -7 | 983 | -9 |
| 985 | -9 | 984 | -11 |
| 984 | -11 | 984 | -12 |
| 985 | -13 | 985 | -12 |
| 985 | -14 | 987 | -12 |

DAY 21
$973-4$
$973-3$
$975-5$
975 -6
$977-8$
$977-9$
980-10
980-11
DAY 28
980-13
982-12
981-11
982-10
984-12
985-13
986-14
987-12

* temperature ( $C$ ) * mean $=-6.4$ Std dev $=4.0$ maX $=3.0$ at 540 GMT ON day 12 min $=-14.8$ at 2110 GMt ON dAY 22
* THETA (K) * MEAN $=268.14$
* PRESSURE (MB) * MEAN $=982.4$ STD DEV $=9.7$ MAX $=1003.6$ AT 230 GMT ON DAY 1 MIN $=954.1$ AT 510 GMT ON DAY 19
* WINDS (M/S) * MEAN $=0.0 \mathrm{stD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM $\quad 0$. CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $6.7 \%$ PRESSURE: $6.7 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW percent

MAR 97
HR PP TT VV DD DAY 1

00
$\begin{array}{lll}03 & 989 & -8\end{array}$
$\begin{array}{lll}06 & 991 & -7\end{array}$
$09-992 \quad-8$
$12994-9$
$15-995-9$
$\begin{array}{lll}18 & 996 & -8\end{array}$
$21997-7$
$\begin{array}{lll}00 & 982-20\end{array}$
$\begin{array}{lll}03 & 977 & -18\end{array}$
$\begin{array}{lll}06 & 975 & -17\end{array}$
$\begin{array}{lll}09 & 976 & -18\end{array}$
$\begin{array}{lll}12 & 973 & -20\end{array}$
$\begin{array}{lll}15 & 973 & -20\end{array}$
$\begin{array}{ll}18 & 974 \\ -20\end{array}$
21969 -20

|  | DAY 15 |  |  |
| :--- | :--- | :--- | :--- |
| 00 |  |  |  |
| 03 | 971 | -11 |  |
| 06 | 972 | -10 |  |
| 09 | 973 | -11 |  |
| 12 | 974 | -10 |  |
| 15 | 974 | -9 |  |
| 18 | 975 | -7 |  |
| 21 | 977 | -8 |  |
|  |  | DAY |  |
| 00 | 974 | -18 |  |
| 03 | 974 | -17 |  |
| 06 | 974 | -16 |  |
| 09 | 975 | -16 |  |
| 12 | 975 | -16 |  |
| 15 | 977 | -16 |  |
| 18 | 977 | -14 |  |
| 21 | 978 | -13 |  |

DAY 29
00
$\begin{array}{lll}03 & 979 & -14\end{array}$
$\begin{array}{lll}06 & 977 & -14\end{array}$
$\begin{array}{lll}09 & 975-19\end{array}$
$\begin{array}{lll}12 & 976 & -25\end{array}$
$\begin{array}{lll}15 & 975 & -27\end{array}$
$\begin{array}{lll}18 & 972-27\end{array}$
$21 \quad 969-26$
$\begin{array}{rrrr}\text { PP TT VV DD } & \text { PP TT VV DD } \\ \text { DAY } 2 & \text { DAY } 3\end{array}$
$998-4$
$998-5$
997-6
996-6
$\begin{array}{ll}995 & -7\end{array}$
$994 \quad-8$
$992-8$
$990-6$
DAY 9

959-12
963-10
965-11
963-12
967-14
967-16
965-16
DAY 16
977 -8
976-7
977 -6
977 -7
977 -7
$976-8$
$975-9$
975-10
DAY 23
979-11
979-8
980 - 8
980-9
981-9
$981-9$
981-11
981-11
DAY 30
967-25
967-23
967-22
968-24
968-23
968-21
971-21
972-22
$990-6$
989-6
987-6
987-6
$986-5$
$986-5$
$\begin{array}{ll}986 & -7\end{array}$
$\begin{array}{ll}984 & -7 \\ \text { DAY } 10\end{array}$

969-16
973-15
976-15
978-15
978-13
983-16
982-15
DAY 17
974-10
$974-9$
$975-9$
975-10
975-10
975-14
975-13
974-13
DAY 24
979-10
978-10
979-10
977-10
974-10
$974-9$
972 -8
DAY 31
973-21
974-20
975-19
978-20
982-19
986-19
991-18
995-18


* temperature ( $C$ ) * mean $=-11.5$ Std dev $=5.1$ MAX $=-0.5$ at 620 GMT ON DAY 26 MIN $=-26.8$ at 1630 GMt ON dAY 29
* theta (K) * MEAN $=263.25$
* PRESSURE (MB) * MEAN $=979.4$ STD DEV $=7.7$ MAX $=998.2$ AT 2300 GMT ON DAY 31 MIN $=957.9$ at 450 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $5.2 \%$ PRESSURE: $5.2 \%$ WINDS: $100.0 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 60 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

APR 97

HR PP TT VV DD
DAY 1
998-17
999-12
999-11
999-11
998-11
$\begin{array}{ll}996 & -9\end{array}$
$993-8$
992-11
DAY 8
00
03
06
09
12
15
18
21
DAY 15
00
03
06
09
12
15
18
21

00
03
06
09
12
15
18
PP TT VV DD

| PP TT VV | DD | PP TT VV | DD |
| :--- | :--- | :--- | :--- |

977-15 984-15

975-14
976-14
978-15
978-14
977-15
978-16
979-15
DAY 11
DAY 10
984-15
984-14
984-14
985-14
986-11
986-13
986-16
986-15
DAY 12

DAY 18
DAY 17
DAY 16
oar 17
DAY 19
DAY 20
DAY 21

MONTHLY SUMMARY


* theta (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ mAX =****** AT 0 GMT ON DAY 0 MIN =******* AT 0 GMT ON dAY 0

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $79.6 \%$ PRESSURE: $79.6 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | TT VV | DD |
| :--- | :--- | ---: | :--- |
|  | DAY | 1 |  |



TT VV
DAY 1

| PP | TT VV | DD |
| :--- | :--- | :--- | :--- |
| DAY | 4 |  |


980-11 981-10
$993-13 \quad 977-9 \quad 983-11$
992-13 981-10 986-11

| $991-13$ | 981 | -9 | $986-12$ |
| :--- | :--- | :--- | :--- |


| $988-12$ | 982 | -9 | $986-12$ |
| :--- | :--- | :--- | :--- |


| $986-12$ | 980 | -9 | 985 | -12 |
| :--- | :--- | :--- | :--- | :--- |

$983-12 \quad 980-10 \quad 985-12$

* TEMPERATURE ( $C$ ) * MEAN $=-20.3$ STD DEV $=6.4$ MAX $=-8.9$ AT 650 GMT ON DAY 27 MIN $=-34.2$ AT 2300 GMT ON DAY 12
* THETA (K) * MEAN $=254.19$
* PRESSURE (MB) * MEAN $=981.3$ STD DEV $=6.9$ MAX $=999.5$ at 1530 GMT ON DAY 25 MIN $=967.3$ AT 430 GMT ON DAY 31
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ fROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $8.9 \%$ PRESSURE: $8.9 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2
PERCENT: $\begin{array}{lrrrrrrrrrrrrrrr} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \end{array}$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-14.5$ STD DEV $=3.9$ mAX $=-7.0$ AT 1720 GMT ON DAY 5 mIN $=-23.8$ AT 2040 GMT ON DAY 18
* ThETA (K) * MEAN $=258.95$
* PRESSURE (MB) * MEAN $=995.5$ STD DEV $=8.4$ MAX $=1010.3$ AT 740 GMT ON DAY 4 MIN $=978.2$ AT 50 GMT ON DAY 1
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=$ ***** FROM***** at 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $56.7 \%$ PRESSURE: $56.7 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT
$0 \begin{array}{llllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PP TT VV DD DAY 5
 DAY 6

PP TT VV DD DAY 7
00

DAY 13
DAY 14

DAY 31

$$
980-16
$$

$$
986-16
$$

$$
990-16
$$

* TEMPERATURE ( $C$ ) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT OMT ON DAY 0
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad O$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $97.2 \%$ PRESSURE: $97.2 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 6$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PP TT VV DD DAY 1 PP TT VV DD DD
DAY 2
PP TT VV DD DAY 3

PP TT VV DD
PP TT VV DD DAY 5 PP TT VV DD
DAY 6 985-22
$993-23$
999-14 998-16

## DAY 11

DAY 12
DAY 13
DAY 14
DAY 9
DAY 10

03
06
09

12
15
18
21
DAY 15

989-27
987-22
981-26
DAY 17
DAY 18
DAY 19

988-24
979-23
981-23
985-22
985-24
982-26
987-25
989-25

DAY 25
DAY 26
DAY 27
DAY 28

DAY 23

987-28

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* theta (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT OMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $92.3 \%$ PRESSURE: $92.3 \%$ WINDS: $100.0 \%$


WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* temperature ( $C$ ) * mean $=-6.7$ Std dev $=2.5$ max $=-0.8$ at 130 GMT on day 1 min $=-15.0$ at 1420 GMt on day 25
* THETA (K) * MEAN $=267.32$
* PRESSURE (MB) * MEAN $=988.5$ STD DEV $=4.4$ MAX $=997.4$ AT 800 GMT ON DAY 31 MIN $=980.5$ AT 1100 GMT ON DAY 3
* WINDS (M/S) * MEAN $=3.3$ STD DEV $=1.7$ RESULTANT $=2.0$ FROM 158. CONSTANCY $=0.60 \mathrm{MAX}=9.8$ FROM 140 . AT 1700 GMT DAY 11
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $12.5 \%$ PRESSURE: $11.7 \%$ UINDS: $11.7 \%$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT $\begin{array}{lllllllllllllll}0 & 1 & 1 & 2 & 7 & 11 & 18 & 9 & 14 & 10 & 8 & 6 & 6 & 4 & 2\end{array}$

STATION : 8908 LETTAU
FEB 97
HR PP TT WV DD DAY 1
$\begin{array}{lll}\text { PP } T T & \text { VV } & \text { DD } \\ \text { DAY } & 2\end{array}$
00
03
06
$\begin{array}{lllll}09 & 995 & -8 & 4 & 158\end{array}$
$\begin{array}{lllll}2 & 995 & -9 & 5 & 161\end{array}$
$\begin{array}{lllll}5 & 995 & -9 & 5 & 161\end{array}$
18
$\begin{array}{lllll}21 & 995 & -7 & 4 & 188\end{array}$ DAY 8
00 989-12 2323
03
$\begin{array}{lllll}06 & 989 & -16 & 1 & 97\end{array}$
$\begin{array}{lllll}09 & 990 & -16 & 1 & 115\end{array}$
$\begin{array}{lllll}12 & 991 & -15 & 119\end{array}$
$\begin{array}{lllll}15 & 991 & -18 & 1 & 122\end{array}$
$\begin{array}{lllll}18 & 991 & -20 & 2116\end{array}$
$1 \begin{array}{llll}991 & -17 & 3 & 102\end{array}$ DAY 15
986-21 4149
$\begin{array}{lllll}3 & 987 & -20 & 3 & 146\end{array}$
$\begin{array}{llll}987 & -23 & 2 & 165\end{array}$
$\begin{array}{llll}988 & -27 & 2 & 164\end{array}$
$\begin{array}{llll}989 & -31 & 3 & 119\end{array}$
$\begin{array}{llll}989 & -31 & 1 & 85\end{array}$
$\begin{array}{llll}990 & -29 & 2 & 144\end{array}$
991-24 2161 DAY 22
$\begin{array}{lllll}00 & 981 & -17 & 4 & 174\end{array}$
$\begin{array}{lllll}03 & 981 & -16 & 2 & 181\end{array}$
$06 \quad 980-15 \quad 5191$
$\begin{array}{lllll}09 & 980 & -16 & 3 & 178\end{array}$
$\begin{array}{lllll}12 & 980 & -18 & 3 & 182\end{array}$
$\begin{array}{lllll}15 & 980 & -19 & 4 & 192\end{array}$
$\begin{array}{lllll}18 & 980 & -17 & 4 & 198\end{array}$
$\begin{array}{llll}21 & 981 & -14 & 3 \\ 203\end{array}$

981-15 2198
3254

LAT : 82.52S LONG : 174.45W ELEVATION : 55 M


| 996 | -8 | 3 | 210 |
| :--- | :--- | :--- | :--- |
| 996 | -8 | 1 | 239 |
| 995 | -8 | 3 | 262 |
| 995 | -6 | 3 | 230 |


|  | DAY | 9 |  |  | DAY | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 990 | -13 | 1 | 94 | 992 | -16 | 2174 |
| 990 | -15 | 2 | 111 | 992 | -14 | 00 |
| 989 | -15 | 1 | 150 | 993 | -15 | 1230 |
| 989 | -18 | 2 | 151 | 993 | -17 | 1220 |
| 990 | -19 | 2 | 188 | 994 | -17 | 2217 |
| 990 | -20 | 3 | 160 | 994 | -17 | 1258 |
| 990 | -19 | 2 | 194 | 995 | -16 | 2232 |
| 991 | -17 | 1 | 174 | 995 | -14 | 1264 |
|  | DAY | 16 |  |  | DAY | 17 |
| 991 | -22 | 3 | 140 | 992 | -27 | 41 |
| 991 | -21 | 1 | 118 | 993 | -27 | 5358 |
| 991 | -23 | 2 | 151 | 994 | -27 | 261 |
| 991 | -26 | 2 | 161 | 995 | -30 | 171 |
| 991 | -30 | 2 | 185 | 996 | -27 | 3106 |
| 990 | -26 | 0 | 0 | 996 | -25 | 4106 |
| 991 | -25 | 1 | 71 | 996 | -24 | 6122 |
| 991 | -26 | 3 | 2 | 996 | -24 | 4129 |
|  | DAY | 23 |  |  | DAY | 24 |

$\begin{array}{lrl}\text { PP TT VV } & \text { DD } \\ \text { DAY } & 3\end{array}$

PP $\left.\begin{array}{cc}\text { TT VV } & \text { DD } \\ \text { DAY } & 5\end{array}\right]$
995-11 4350

DAY 11
995-14 2271
995-14 0
995-15 1185
995-16 2194
996-16 0 0
995-17 0 0
996-18 3102
995-17 4143

## DAY 18

995-22 6135
994-20 6137
$\begin{array}{llll}993 & -21 \quad 4181\end{array}$
994-26 3195
994-28 3195
994-29 2284
995-20 2258
996-19 4289 DAY 25


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-19.0$ STD DEV $=5.7$ mAX $=-5.6$ AT 1800 GMT ON DAY 3 MIN $=-31.5$ AT 1340 GMT ON DAY 15
* THETA (K) * MEAN $=254.94$
* PRESSURE (MB) * MEAN $=990.1$ STD DEV $=5.0$ MAX $=999.4$ AT 1050 GMT ON DAY 19 MIN $=979.8$ AT 740 GMT ON DAY 22 * WINDS (M/S) * MEAN $=3.2$ STD DEV $=2.3$ RESULTANT $=2.0$ from 155. CONSTANCY $=0.63$ maX $=12.0$ from 102. at 1940 GMT dAY 19 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $38.4 \%$ PRESSURE: $38.4 \%$ WINDS: $37.9 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 4 & 1 & 1 & 2 & 2 & 14 & 13 & 15 & 17 & 15 & 4 & 3 & 3 & 2 & 2 & 1\end{array}$
HR PP TT VV DD
$\begin{array}{lllll}00 & 975 & -22 & 6 & 180\end{array}$ $\begin{array}{lllll}3 & 975 & -24 & 4 & 189\end{array}$ 06 09 12 15 18 21
00
03
06
09
12

15
18 988-19
1988-19
DAY 15
$\begin{array}{llll}0 & 990 & -16 & 2\end{array} 191$
$\begin{array}{lllll}3 & 990 & -17 & 3 & 142\end{array}$
$\begin{array}{lllll}6 & 990 & -18 & 1 & 175\end{array}$
$\begin{array}{llll}990 & -20 & 3 & 146\end{array}$ 12
$\begin{array}{lllll}5 & 990 & -23 & 4 & 157\end{array}$
$8 \quad 990-23 \quad 4172$
$\begin{array}{llll}1 & 990 & -22 & 3164\end{array}$ DAY 22
$\begin{array}{llll}00 & 962-1912144\end{array}$
$\begin{array}{llllll}03 & 962 & -20 & 13 & 129\end{array}$
$\begin{array}{llllll}06 & 962 & -21 & 11 & 123\end{array}$
$\begin{array}{lllll}09 & 965 & -19 & 10 & 115\end{array}$
$\begin{array}{lllll}12 & 967 & -17 & 9 & 122\end{array}$
$\begin{array}{lllll}15 & 969 & -15 & 11 & 105\end{array}$
$\begin{array}{llllll}18 & 971 & -16 & 11 & 127\end{array}$
$\begin{array}{llll}21 & 971 & -17 & 12129\end{array}$ DAY 29
$\begin{array}{llll}00 & 970 & -16 & 6174\end{array}$
$\begin{array}{llll}03 & 970 & -16 & 8 \\ 210\end{array}$
06 970-17 7223
$09 \quad 970-20 \quad 6201$
$\begin{array}{lllll}12 & 971 & -20 & 2 & 240\end{array}$
$\begin{array}{lllll}15 & 971 & -25 & 3 & 286\end{array}$
$\begin{array}{lllll}18 & 971 & -24 & 2 & 195\end{array}$

| PP | IT | VV | DD | PP | IT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 972 | -21 | 3 | 150 | 974 | -26 | 4 | 125 |
| 969 | -21 | 4 | 147 | 976 | -27 | 5 | 108 |


| PP | TT | VV | DD |
| :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |
| 982 | -27 | 0 | 0 |
| 981 | -27 | 0 | 0 |

PP TT VV DD PP TT VV DD DAY 5
$\begin{array}{llll}974 & -24 & 5 & 192\end{array}$ $\begin{array}{lllll}974 & -22 & 3 & 188\end{array}$ $\begin{array}{llll}974 & -23 & 4 & 171\end{array}$

PP TT VV DD DAY 7
986-29 2187 $\begin{array}{llll}989 & -27 & 3 & 189\end{array}$
$\begin{array}{llllllll}973 & -25 & 5 & 120 & 983 & -28 & 2 & 265\end{array}$ DAY 9
987-19
986-18
 DAY 31
972-20 3167
971-19 2194
971-21 2243
970-24 2275
$\begin{array}{llll}970 & -27 & 3 & 282\end{array}$
970-26 2299
$\begin{array}{lll}969 & -23 & 2 \\ 319\end{array}$

DAY 30
972-21 4302
972-18 2334
972-19 $2 \begin{array}{lll}-15\end{array}$
972-20 3 56
972-20 252
$\begin{array}{llll}972 & -19 & 1 & 95\end{array}$
$\begin{array}{llll}972 & -18 & 3 & 92\end{array}$
$972-20 \quad 3142$

984-17 13129
984-15 14125 DAY 18
985-30 2227
$\begin{array}{lll}984 & -29 & 2 \\ 241\end{array}$
983-31 2240
983-34 2268
983-35 4229
983-30 4215
983-28 4195
$\begin{array}{lll}984 & -27 & 2147\end{array}$
DAY 25
975-17 0 0
972-17 2202
972-20 2202
972-23 3209
972-25 2239
973-26 2293
975-24 2350
977-21 1322

980-16 11133 979-16 14151 DAY 19
985-29 268
984-28 00

985-30 0
$\begin{array}{llll}984 & -34 & 2 & 199\end{array}$
$\begin{array}{llll}984 & -35 & 2 & 177\end{array}$
$\begin{array}{llll}984 & -34 & 1 & 119\end{array}$
$\begin{array}{llll}984 & -32 & 2 & 137\end{array}$
$\begin{array}{llll}983 & -32 & 2 & 97\end{array}$ DAY 26
978-21 0
$\begin{array}{llll}979 & -21 & 1 & 26\end{array}$
$\begin{array}{llll}979 & -23 & 3 & 102\end{array}$
$\begin{array}{llll}980 & -24 & 5 & 116\end{array}$
$\begin{array}{llll}981 & -26 & 5 & 139\end{array}$
$\begin{array}{llll}981 & -24 & 5 & 136\end{array}$
980-22 4154
$979-21 \quad 5171$

993-23
993-26
DAY 14
981-23 4126
982-21 5137
984-19 4133
985-19 2136

988-18 2140
988-17 2146
989-16 2178
DAY 21
977-32 4123
976-32 6126
$\begin{array}{llll}974 & -31 & 7 & 127\end{array}$
$\begin{array}{llll}972 & -26 & 6147\end{array}$
968-23 11149
965-20 12127
963-20 13139
962-20 15130

## DAY 28

968-16 8150
968-18 6136
$\begin{array}{llllllll}973 & -19 & 8 & 188 & 968 & -20 & 6 & 130\end{array}$
$\begin{array}{llllllll}971 & -20 & 6 & 188 & 969 & -20 & 3 & 172\end{array}$
$\begin{array}{lllllllll}971 & -23 & 4 & 196 & 969 & -18 & 6 & 160\end{array}$
$\begin{array}{llllllll}970 & -23 & 4 & 194 & 969 & -17 & 7 & 143\end{array}$
$\begin{array}{llllllll}969 & -22 & 6 & 205 & 969 & -18 & 4 & 178\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-22.0$ std dev $=5.9$ max $=-9.0$ at 600 GMT on day 24 min $=-37.5$ at 1330 gmt on day 20
* theta (K) * mean $=252.85$
* PRESSURE (MB) * MEAN $=977.5$ STD DEV $=8.0$ MAX $=993.2$ AT 2120 GMT ON DAY 7 MIN $=961.4$ AT 420 GMT ON DAY 22
* WINDS (M/S) * MEAN $=5.2$ STD DEV $=4.1$ RESULTANT $=3.9$ FROM 150. CONSTANCY $=0.76$ MAX $=22.7$ FROM 132 . AT 620 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $21.0 \%$ PRESSURE: $21.0 \%$ WINDS: $24.6 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 19 & 34 & 16 & 11 & 6 & & 6 & 4 & 3 & 1 & 0 & 1 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT

$$
\begin{array}{llllllllllllllll}
2 & 2 & 2 & 2 & 3 & 8 & 24 & 14 & 14 & 9 & 7 & 3 & 2 & 3 & 2 & 1
\end{array}
$$

$$
\begin{array}{llll}
995 & -10 & 15 & 137
\end{array}
$$

DAY 16

PP TT VV DD DAY 3
959-19 3136 959-19 2132
$-22 \quad 5109$
972 -22 7127
$\begin{array}{llll}971 & -22 & 5 & 146\end{array}$
$969-23 \quad 7184$
$\begin{array}{llll}966 & -24 & 7 & 185\end{array}$
963-22 5191
$960-18 \quad 5191$ DAY 9

LAT : 82.52S
LONG : 174.45W


* TEMPERATURE (C) * MEAN $=-12.2$ STD DEV $=6.3$ MAX $=-3.1$ AT 640 GMT ON DAY 22 MIN $=-30.0$ AT 830 GMT ON DAY 1
* THETA (K) * MEAN $=261.64$
* PRESSURE (MB) * MEAN $=991.2$ STD DEV $=15.7$ MAX $=1009.9$ AT 2240 GMT ON DAY 23 MIN $=958.7$ AT 210 GMT ON DAY 3
* WINDS (M/S) * MEAN $=6.2$ STD DEV $=4.4$ RESULTANT $=3.8$ FROM 145. CONSTANCY $=0.61$ MAX $=21.5$ fROM 147. AT 1830 GMT DAY 7
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $65.4 \%$ PRESSURE: $65.0 \%$ WINDS: $65.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 6 & 4 & 0 & 1 & 2 & 5 & 31 & 11 & 9 & 1 & 5 & 5 & 2 & 1 & 9 & 7\end{array}$


* TEMPERATURE (C) * MEAN $=-4.9$ STD DEV $=3.8$ MAX $=1.8$ AT 30 GMT ON DAY 28 MIN $=-15.5$ AT 1640 GMT ON. DAY 10
* THETA (K) * MEAN $=269.15$
* PRESSURE (MB) * MEAN $=989.1$ STD DEV $=4.4$ MAX $=999.9$ AT 2000 GMT ON DAY 6 MIN $=979.8$ AT 1520 GMT ON DAY 13
* WINDS (M/S) * MEAN $=3.5$ STD DEV $=2.1$ RESULTANT $=1.7$ FROM 124. CONSTANCY $=0.48$ MAX $=9.8$ FROM 149. AT 1750 GMT DAY 25 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $31.9 \%$ PRESSURE: $\mathbf{3 1 . 5} \%$ WINDS: $31.5 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 25 \quad 3824 \quad 10 \begin{array}{llllllllllllllll} & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ hind direction: n nNe ne ene e ese $\operatorname{se}$ SSE S SSW SW
percent

| 6 | 3 | 5 | 10 | 8 | 12 | 10 | 12 | 8 | 5 | 2 | 2 | 3 | 4 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-6.7$ STD DEV $=2.9$ MAX $=2.2$ AT 240 GMT ON DAY 22 MIN $=-16.1$ AT 1640 GMT ON DAY 30
* THETA (K) * MEAN $=267.36$
* PRESSURE (MB) * MEAN $=988.7$ STD DEV $=4.3$ MAX $=998.1$ AT 1230 GMT ON DAY 31 MIN $=979.6$ AT 2000 GMT ON DAY 3
* WINDS (M/S) * MEAN $=4.3$ STD DEV $=3.3$ RESULTANT $=3.1$ FROM 190. CONSTANCY $=0.73$ MAX $=15.7$ FROM 192 . AT 0 GMT DAY 15 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 7 & 3 & 0 & 1 & 3 & 4 & 5 & 9 & 28 & 23 & 7 & 1 & 1 & 1 & 4\end{array}$

FEB 97

HR PP TT VV DD
$\begin{array}{lllll}00 & 998 & -11 & 5 & 194\end{array}$
$\begin{array}{lllll}03 & 997 & -9 & 8 & 191\end{array}$
$\begin{array}{lllll}06 & 997 & -9 & 5 & 198\end{array}$
$\begin{array}{lllll}09 & 997 & -11 & 3 & 188\end{array}$
$\begin{array}{llll}12 & 998 & -13 & 2\end{array} 255$
$\begin{array}{llll}15 & 998 & -15 & 2\end{array}$
18
$\begin{array}{lllll}21 & 998 & -9 & 2 & 99\end{array}$ DAY 8
$\begin{array}{lllll}00 & 987 & -11 & 2 & 165\end{array}$
$\begin{array}{lllll}03 & 987 & -13 & 7 & 165\end{array}$
$\begin{array}{lllll}06 & 987 & -12 & 6 & 154\end{array}$
$\begin{array}{lllll}09 & 988 & -12 & 7 & 142\end{array}$
$\begin{array}{lllll}12 & 989 & -13 & 5 & 146\end{array}$
$\begin{array}{lllll}15 & 989 & -14 & 2 & 143\end{array}$
$\begin{array}{lllll}18 & 989 & -14 & 1 & 112\end{array}$
$\begin{array}{lllll}21 & 990 & -11 & 0 & 0\end{array}$ DAY 15
$\begin{array}{lllll}00 & 987 & -18 & 3 & 5\end{array}$
$\begin{array}{lllll}03 & 987 & -18 & 10 & 187\end{array}$
$\begin{array}{lllll}06 & 987 & -15 & 4 & 336\end{array}$
$\begin{array}{lllll}09 & 987 & -21 & 7 & 344\end{array}$
$\begin{array}{lllll}12 & 988 & -18 & 6 & 191\end{array}$
$\begin{array}{lllll}15 & 988 & -19 & 6 & 196\end{array}$
$\begin{array}{lllll}18 & 989 & -17 & 5 & 219\end{array}$
$\begin{array}{llll}21 & 990 & -21 & 6 \\ 329\end{array}$ DAY 22
$\begin{array}{lllll}00 & 983 & -21 & 10 & 191\end{array}$
$\begin{array}{lllll}03 & 983 & -18 & 12 & 196\end{array}$
$\begin{array}{lllll}06 & 983 & -19 & 7 & 195\end{array}$
$\begin{array}{lllll}09 & 984 & -22 & 3 & 167\end{array}$
$\begin{array}{lllll}12 & 984 & -23 & 2 & 262\end{array}$
$\begin{array}{lllll}15 & 984 & -23 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 985 & -23 & 2 & 174\end{array}$
$\begin{array}{lllll}21 & 986 & -21 & 0 & 0\end{array}$

| PP |  |  | DD | P TT VV |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 999 | -11 | 2 | 94 | 1000 | -12 | 1 | 144 |
| 999 | -7 | 0 | 0 |  |  |  |  |
| 999 | -5 | 1 | 291 | 999 | -10 | 2 | 344 |
| 999 | -9 | 2 | 191 | 998 | -12 |  | 341 |
|  |  |  |  | 998 | -15 | 3 | 360 |
| 1000 | -13 | 1 | 309 | 997 | -15 | 3 | 347 |
| 1000 | -16 | 3 | 144 | 996 | -14 | 2 | 292 |
| 1000 | -13 | 1 | 92 | 996 | -12 |  | 341 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 990 | -8 | 0 | 0 | 989 | -11 | 7 | 187 |
| 989 | -8 | 0 | 0 | 989 | -10 | 4 | 153 |
| 989 | -10 | 1 | 26 | 990 | -12 | 6 | 158 |
| 987 | -15 | 5 | 352 | 991 | -13 | 3 | 136 |
| 987 | -17 | 4 | 352 | 991 | -14 | 3 | 140 |
| 987 | -18 | 4 | 350 | 992 | -15 | 1 | 139 |
| 987 | -16 | 2 | 66 | 992 | -18 | 7 | 157 |
| 988 | -11 | 4 | 170 | 993 | -18 | 11 |  |
|  | DAY | 16 |  |  | DAY | 17 |  |
| 990 | -15 | 3 | 326 | 992 | -17 | 3 | 175 |
| 990 | -14 | 2 | 360 | 992 | -18 | 6 | 177 |
| 990 | -16 | 4 | 358 | 991 | -17 | 6 | 17 |
| 991 | -17 | 4 | 165 | 992 | -19 | 5 | 168 |
| 991 | -21 | 2 | 135 | 992 | -23 | 2 | 260 |
| 991 | -24 | 3 | 52 | 993 | -19 | 8 | 203 |
| 991 | -23 | 2 | 68 | 994 | -18 | 9 | 217 |
| 992 | -16 | 0 | 0 | 995 | -18 | 15 | 188 |
|  | DAY | 23 |  |  | DAY | 24 |  |
| 987 | -22 | 1 | 330 | 986 | -20 | 10 | 180 |
| 987 | -18 | 0 | 0 | 986 | -21 | 8 | 182 |
| 987 | -20 | 1 | 23 | 987 | -21 | 6 | 174 |
| 986 | -20 | 1 | 56 | 987 | -22 | 6 | 192 |
| 986 | -20 | 1 | 137 | 988 | -22 | 2 | 168 |
| 985 | -23 | 3 | 153 | 988 | -22 | 3 | 174 |
| 985 | -24 | 3 | 139 | 989 | -23 |  | 153 |
| 985 | -21 | 8 | 178 | 990 |  |  | 201 |



* TEMPERATURE (C) * MEAN $=-16.8$ STD DEV $=4.8$ MAX $=-5.0$ AT 410 GMT ON DAY 2 MIN $=-29.6$ AT 1600 GMT ON DAY 28
* THETA (K) * MEAN $=257.16$
* PRESSURE (MB) * MEAN $=989.8$ STD DEV $=5.0$ MAX $=1000.3$ AT 2100 GMT ON DAY 2 MIN $=976.8$ AT 1740 GMT ON DAY 28
* WINDS (M/S) * MEAN $=6.3$ STD DEV $=5.9$ RESULTANT $=4.8$ FROM 190. CONSTANCY $=0.77$ MAX $=31.2$ FROM 209. AT 320 GMT DAY 20 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$

 $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 8 & 3 & 2 & 2 & 2 & 2 & 7 & 12 & 22 & 24 & 1 & 2 & 1 & 2 & 2\end{array}$

MAR 97
HR PP TT VV DD

|  | DAY |  |  |
| :--- | :--- | :--- | :--- |
|  | 1 |  |  |
| 00 | 977 | -25 | 4 |

$\begin{array}{lllll}03 & 977 & -24 & 7 & 192\end{array}$
$\begin{array}{lllll}06 & 977 & -23 & 7 & 184\end{array}$
$\begin{array}{lllll}09 & 978 & -24 & 7 & 181\end{array}$
$\begin{array}{llll}12 & 979 & -25 & 3 \\ 203\end{array}$
$\begin{array}{lllll}15 & 980 & -27 & 3 & 170\end{array}$
$\begin{array}{llll}18 & 981 & -28 & 2\end{array} 158$
$\begin{array}{llll}21 & 982 & -29 & 2\end{array}$ DAY 8
$\begin{array}{lllll}00 & 978 & -26 & 1 & 133\end{array}$
$\begin{array}{lllll}03 & 978 & -23 & 0 & 0\end{array}$

| 06 | 979 | -26 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}09 & 979 & -27 & 1 & 360\end{array}$
$\begin{array}{lllll}12 & 980 & -30 & 3 & 317\end{array}$
$\begin{array}{lllll}15 & 980 & -32 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 981 & -28 & 1 & 74\end{array}$
$\begin{array}{lllll}21 & 983 & -27 & 2119\end{array}$ DAY 15
$\begin{array}{lllll}00 & 983 & -20 & 10 & 191\end{array}$
$\begin{array}{lllll}03 & 983 & -22 & 11 & 185\end{array}$
$\begin{array}{lllll}06 & 984 & -23 & 14 & 191\end{array}$
$\begin{array}{lllll}09 & 985 & -27 & 7 & 168\end{array}$
$\begin{array}{lllll}12 & 985 & -27 & 10 & 178\end{array}$
$\begin{array}{lllll}15 & 986 & -30 & 7 & 182\end{array}$
$\begin{array}{llll}18 & 986 & -28 & 111\end{array}$
$\begin{array}{llll}21 & 985 & -30 & 3\end{array} 334$ DAY 22
$00 \quad 984-29 \quad 2250$
$\begin{array}{lllll}03 & 985 & -28 & 5 & 184\end{array}$
$\begin{array}{lllll}06 & 986 & -33 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 986 & -33 & 2 & 9\end{array}$
$\begin{array}{lllll}12 & 987 & -34 & 3 & 18\end{array}$
$\begin{array}{lllll}15 & 987 & -31 & 1 & 286\end{array}$
$\begin{array}{lllll}18 & 988 & -32 & 1 & 317\end{array}$
$\begin{array}{lllll}21 & 989 & -30 & 3 & 90\end{array}$
DAY 29
$\begin{array}{lllll}00 & 959 & -29 & 310\end{array}$
$\begin{array}{lllll}03 & 958 & -31 & 3 & 343\end{array}$
$\begin{array}{llll}06 & 957 & -30 & 3\end{array} 358$
$09 \quad 956$-29 2357
$\begin{array}{llll}12 & 956 & -26 & 4 \\ 277\end{array}$
$\begin{array}{lllll}15 & 953 & -25 & 10 & 292\end{array}$
$\begin{array}{lllll}18 & 952 & -24 & 2 & 4\end{array}$
$\begin{array}{lllll}21 & 956 & -22 & 10 & 178\end{array}$

| PP | TT VV | DD |  | PP | TT | VV | DD |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | DAY | 2 |  |  | DAY | 3 |  |  |
| 984 | -27 | 3 | 202 |  | 990 | -24 | 4 | 330 |
| 984 | -24 | 5 | 185 |  | 989 | -20 | 0 | 0 |
| 985 | -23 | 5 | 191 |  | 988 | -21 | 3 | 348 |
| 987 | -27 | 3 | 258 |  | 987 | -21 | 5 | 4 |
| 989 | -28 | 1 | 160 | 986 | -21 | 0 | 0 |  |
| 990 | -27 | 3 | 216 | 985 | -24 | 2 | 298 |  |
| 991 | -26 | 3 | 37 | 985 | -22 | 2 | 177 |  |
| 991 | -26 | 2 | 324 | 984 | -23 | 2 | 151 |  | DAY 10

$\begin{array}{llll}984 & -24 & 4 & 85\end{array}$
$\begin{array}{llll}984 & -23 & 4 & 91\end{array}$
$\begin{array}{llll}985 & -24 & 6 & 129\end{array}$
$\begin{array}{llll}986 & -23 & 5 & 135\end{array}$
$\begin{array}{llll}986 & -24 & 8 & 177\end{array}$
$\begin{array}{llll}987 & -24 & 9 & 167\end{array}$
$\begin{array}{llll}986 & -24 & 10 & 175\end{array}$
$\begin{array}{llll}986 & -25 & 11 & 178\end{array}$
DAY 16
984-28 3338
$982-27 \quad 4343$
981-29 4360
$\begin{array}{llll}980 & -32 & 3 & 11\end{array}$
$\begin{array}{llll}980 & -33 & 3 & 153\end{array}$
$\begin{array}{llll}979 & -35 & 2 & 111\end{array}$
$\begin{array}{llll}980 & -32 & 4 & 74\end{array}$
$\begin{array}{llll}981 & -28 & 3 & 160\end{array}$

## DAY 23

$990-29 \quad 2 \quad 78$
$\begin{array}{llll}990 & -28 & 2 & 75\end{array}$
$\begin{array}{llll}991 & -24 & 2 & 182\end{array}$
$\begin{array}{llll}991 & -29 & 2 & 84\end{array}$
$\begin{array}{llll}991 & -25 & 3 & 174\end{array}$
$\begin{array}{llll}992 & -24 & 0 & 0\end{array}$
$\begin{array}{llll}992 & -27 & 1 & 167\end{array}$
992 -26 0
DAY 30
$\begin{array}{llll}962 & -22 & 7206\end{array}$
$\begin{array}{llll}965 & -26 & 11 & 189\end{array}$
$965-24 \quad 4226$
$965-24 \quad 5347$
$965-215219$
966-22 10202
967-22 6199

PP TT VV DD DAY 4

| 984 | -23 | 2 |
| :--- | :--- | :--- |

$\begin{array}{llll}983 & -20 & 3 & 177\end{array}$
$\begin{array}{llll}981 & -20 & 4 & 203\end{array}$
980-22 1223
$\begin{array}{llll}979 & -24 & 3 & 302\end{array}$
978-22 2210
$978-26 \quad 4167$
$\begin{array}{llll}978 & -24 & 5 & 161\end{array}$ DAY 11
$\begin{array}{llll}976 & -26 & 6189\end{array}$
$\begin{array}{llll}974 & -25 & 7191\end{array}$
$\begin{array}{llll}973 & -25 & 10 & 210\end{array}$
$\begin{array}{llll}972 & -28 & 6178\end{array}$
$\begin{array}{lll}972 & -31 & 219\end{array}$
971-28 6185
$\begin{array}{llll}971 & -33 & 6 & 172\end{array}$
971 -30 2161 DAY 18
$\begin{array}{llll}985 & -27 & 5 & 185\end{array}$
$\begin{array}{llll}987 & -26 & 4 & 178\end{array}$
988-26 6163
$\begin{array}{llll}989 & -27 & 3 & 181\end{array}$
989-31 $\quad 5170$
$\begin{array}{llll}989 & -32 & 5 & 177\end{array}$
988-29 1255
989-28 1213 DAY 25
998-33 2102
$\begin{array}{llll}999 & -32 & 1 & 84\end{array}$
$\begin{array}{llll}999 & -35 & 1 & 154\end{array}$
$\begin{array}{llll}1000 & -36 & 3 & 147\end{array}$
$\begin{array}{llll}1000 & -35 & 2 & 178\end{array}$
$\begin{array}{llll}1000 & -32 & 3 & 184\end{array}$
$\begin{array}{llll}1000 & -29 & 3 & 177\end{array}$
$999-29 \quad 6 \quad 187$

PP TT VV DD PP TT VV DD

$$
\text { DAY } 5
$$

978-22 1189
978 -22 1209
$\begin{array}{llll}978 & -22 & 3 & 185\end{array}$

| 978 | -27 | 2 |
| :--- | :--- | :--- |

$\begin{array}{llll}978 & -24 & 6 & 199\end{array}$
$\begin{array}{llll}977 & -24 & 10 & 191\end{array}$
$\begin{array}{llll}978 & -26 & 6 & 168\end{array}$

| 978 | -23 | 9 |
| :--- | :--- | :--- | DAY 12


| 970 | -30 | 2 |
| :--- | :--- | :--- |

969 -28 3306
968-28 1312
$\begin{array}{llll}966 & -29 & 3 & 313\end{array}$
$\begin{array}{llll}964 & -32 & 4 & 316\end{array}$
$\begin{array}{lll}963 & -33 & 434\end{array}$
$\begin{array}{llll}962 & -30 & 4 & 309\end{array}$
962-30 0
DAY 19
989-28 4187
989-29 4181
$\begin{array}{llll}988 & -29 & 5 & 163\end{array}$
$\begin{array}{llll}989 & -31 & 229\end{array}$
$\begin{array}{llll}988 & -33 & 1 & 310\end{array}$
$\begin{array}{llll}988 & -35 & 2 & 7\end{array}$
$\begin{array}{lll}988 & -33 & 210\end{array}$
$\begin{array}{llll}988 & -33 & 2 & 185\end{array}$ DAY 26
997-27 14203
$\begin{array}{lll}997 & -26 & 201\end{array}$
$995-2612198$
994-26 11209
994-29 4165
$\begin{array}{llll}992 & -29 & 3 & 244\end{array}$
990 -32 4336
$\begin{array}{llll}989 & -33 & 3 & 334\end{array}$

DAY 6
979 -23 9194
$979-23 \quad 9194$
$\begin{array}{lll}979 & -22 & 7187\end{array}$
$\begin{array}{llll}979 & -23 & 4 & 187\end{array}$
980-24 2209
980-28 0
$\begin{array}{llll}979 & -29 & 386\end{array}$
979-26 2289 DAY 13
$\begin{array}{llll}962 & -31 & 3 & 2\end{array}$
962-29 0
963-29 0 0
$\begin{array}{llll}963 & -32 & 3 & 7\end{array}$
$\begin{array}{llll}964 & -34 & 5 & 43\end{array}$
$\begin{array}{llll}966 & -34 & 2 & 84\end{array}$
$\begin{array}{llll}967 & -30 & 2 & 85\end{array}$
$\begin{array}{llll}969 & -28 & 1 & 191\end{array}$
DAY 20
$\begin{array}{llll}988 & -33 & 2 & 217\end{array}$
$\begin{array}{llll}987 & -32 & 6 & 196\end{array}$
$\begin{array}{llll}986 & -35 & 4 & 265\end{array}$
$\begin{array}{llll}985 & -36 & 3 & 300\end{array}$
$\begin{array}{llll}984 & -38 & 3 & 330\end{array}$
$\begin{array}{llll}984 & -39 & 2 & 143\end{array}$
$\begin{array}{llll}983 & -35 & 2184\end{array}$
$\begin{array}{lll}984 & -36 & 2 \\ 255\end{array}$ DAY 27
987-29 4338
$\begin{array}{llll}986 & -27 & 2 & 202\end{array}$
$\begin{array}{lll}985 & -30 & 2 \\ 146\end{array}$
985-28 1174
983 -32 5199
$\begin{array}{llll}982 & -29 & 919\end{array}$
$\begin{array}{llll}981 & -32 & 9 & 192\end{array}$
$\begin{array}{llll}980 & -30 & 7 & 213\end{array}$

PP TT WV DD DAY 7
977-24 2329
976-16 $11 \quad 212$
975 -16 11212
$\begin{array}{llll}975 & -17 & 9 & 217\end{array}$
975-19 10199
976-29 4113
976-29 7157
977 -29 4139 DAY 14
971-25 112
$\begin{array}{llll}972 & -25 & 3 & 12\end{array}$
973-23 140
$\begin{array}{llll}973 & -29 & 2 & 140\end{array}$
$\begin{array}{llll}975 & -33 & 3 & 163\end{array}$
978 -2611178
$980-2410188$
981-22 10191 DAY 21
983-36 3303
$\begin{array}{llll}982 & -35 & 3 & 306\end{array}$
$\begin{array}{llll}982 & -34 & 3 & 293\end{array}$
$\begin{array}{llll}981 & -34 & 5 & 277\end{array}$
$\begin{array}{llll}981 & -32 & 5 & 261\end{array}$
$\begin{array}{lll}981 & -31 & 5 \\ 257\end{array}$
$\begin{array}{llll}981 & -30 & 5 & 267\end{array}$
$\begin{array}{llll}983 & -35 \quad 4 & 302\end{array}$ DAY 28
978-32 8185
$\begin{array}{llll}976 & -29 & 9 & 180\end{array}$
974-32 2285
972-31 1268
$\begin{array}{llll}970 & -31 & 3 & 299\end{array}$
967-31 0
$\begin{array}{llll}964 & -30 & 3 & 288\end{array}$
$\begin{array}{llll}961 & -28 & 3 & 303\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-27.3$ StD dev $=4.2$ max $=-15.9$ At 310 GMT ON dAY 7 MIN $=-40.4$ At 2030 GMt ON DAY 20
* theta (K) * MEAN $=247.31$
* PRESSURE (MB) * MEAN $=980.3$ STD DEV $=9.7$ MAX $=1000.5$ at 1400 GMT ON DAY 25 MIN $=951.3$ AT 1730 GMT ON DAY 29
* WINDS (M/S) * MEAN $=4.4$ STD DEV $=3.5$ RESULTANT $=2.7$ FROM 194. CONSTANCY $=0.61 \mathrm{MAX}=22.4$ FROM 194. AT 1330 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 18 -20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 6 & 2 & 2 & 3 & 3 & 3 & 4 & 11 & 25 & 16 & 5 & 3 & 3 & 6 & 5 & 5\end{array}$

APR 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 974 & -25 & 11 & 201\end{array}$
$\begin{array}{llll}03 & 972 & -27 & 248\end{array}$
$\begin{array}{lllll}06 & 970 & -33 & 3 & 330\end{array}$
$09 \quad 970-32 \quad 4307$
$\begin{array}{lllll}12 & 971 & -32 & 2 & 292\end{array}$
$\begin{array}{lllll}15 & 971 & -33 & 4 & 306\end{array}$
$\begin{array}{lllll}18 & 972 & -30 & 2 & 234\end{array}$
$\begin{array}{llll}21 & 973 & -25 & 9\end{array}$ DAY 8
$00 \quad 974-19 \quad 8 \quad 202$
$\begin{array}{lllll}03 & 974 & -20 & 14 & 184\end{array}$
$06 \quad 977-2010 \quad 205$
$09 \quad 979-1910198$
$\begin{array}{lllll}12 & 981 & -20 & 810\end{array}$
$\begin{array}{lllll}15 & 983 & -22 & 12 & 188\end{array}$
$\begin{array}{llllll}18 & 985 & -23 & 15 & 198\end{array}$
$\begin{array}{ll}21 & 987-2312185\end{array}$ DAY 15
$\begin{array}{lllll}00 & 981 & -30 & 11 & 198\end{array}$
$\begin{array}{llll}03 & 982 & -27 & 13 \\ 217\end{array}$
$06 \quad 983-2516 \quad 220$
$09 \quad 985$-25 15222
$\begin{array}{lllll}12 & 986 & -23 & 14 & 220\end{array}$
$\begin{array}{lllll}15 & 988 & -29 & 8 & 178\end{array}$
$\begin{array}{lllll}18 & 989 & -30 & 9 & 174\end{array}$
$21 \quad 990$-28 11209 DAY 22
$\begin{array}{lllll}00 & 999 & -31 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 999 & -31 & 4 & 177\end{array}$
$\begin{array}{lllll}06 & 999 & -30 & 8 & 153\end{array}$
09 1000-36 1149
$\begin{array}{lllll}12 & 999 & -37 & 2320\end{array}$
$\begin{array}{lllll}15 & 999 & -37 & 2 & 95\end{array}$
$\begin{array}{lllll}18 & 998 & -37 & 3 & 57\end{array}$
$\begin{array}{lllll}21 & 997 & -36 & 0 & 0\end{array}$ DAY 29
$\begin{array}{lllll}00 & 981 & -36 & 2 & 118\end{array}$
$\begin{array}{llll}03 & 981 & -36 & 2 \\ 210\end{array}$
$\begin{array}{lllll}06 & 980 & -32 & 2 & 132\end{array}$
$09 \quad 980$-30 12199
$\begin{array}{lllll}12 & 981 & -31 & 4 & 299\end{array}$
$\begin{array}{lllll}15 & 982 & -34 & 8 & 189\end{array}$
$\begin{array}{lllll}18 & 982 & -35 & 8 & 178\end{array}$
$\begin{array}{llll}21 & 982-35 & 1 & 295\end{array}$

PP TT VV DD PP TT VV DD DAY 2
976-27 6205
$976-2416201$
978-25 11191
$979-2313203$
$980-2312208$
$\begin{array}{lll}980 & -25 & 7 \\ 209\end{array}$
$981-29 \quad 3213$
$981-32 \quad 6323$
DAY 9
988-24 11172
$989-2211192$
$989-23 \quad 9191$
989 -27 11164
988 -29 9163
988-29 7182
987-29 7196
986-29 5187 DAY 16
991 -28 9202
991-27 4213
991-31 3185
992-33 2174
$992-32 \quad 4230$
$993-28 \quad 6172$
$\begin{array}{lllll}994 & -29 & 3 & 168\end{array}$
995 -33 4334 DAY 23
996-39 2168
994-41 0
993-41 3225
992-41 4185
992-36 5215
$\begin{array}{llll}992 & -37 & 10 & 194\end{array}$
$993-3510 \quad 215$
994-37 8185 DAY 30
981-39 2313
980-31 2213
$\begin{array}{llll}980 & -40 & 3 & 317\end{array}$
$\begin{array}{llll}981 & -37 & 4 & 313\end{array}$
$\begin{array}{llll}982 & -35 & 4 & 1\end{array}$
984-36 0
984-40 1305
$\begin{array}{llll}984 & -38 & 3 & 203\end{array}$

PP TT WV DD DAY 4
989-32 8192 $\begin{array}{llll}988 & -34 & 5 & 168\end{array}$ $\begin{array}{llll}988 & -38 & 1 & 43\end{array}$
$\begin{array}{llll}987 & -33 & 3 & 18\end{array}$
$\begin{array}{llll}985 & -27 & 5 & 161\end{array}$
984-20 13198
983-20 13188
981-19 15201
DAY 11
981-36
980-35
979-38
$979-40$
978-40
978-41
977-40
977-42
DAY 18
1005-32 6177
1008-35 3345
1009-32 2345
$\begin{array}{llll}1010 & -33 & 3 & 312\end{array}$
$\begin{array}{lll}1011 & -32 & 3\end{array} 358$
$\begin{array}{lll}1011 & -33 & 3 \\ 344\end{array}$
1012-30 4300
$\begin{array}{llll}1013 & -34 & 3 & 70\end{array}$

## DAY 25

987-42 0
987-46 2286
$\begin{array}{llll}988 & -39 & 12196\end{array}$
$989-3914209$
$\begin{array}{llll}988 & -37 & 9 & 198\end{array}$
$\begin{array}{llll}986 & -38 & 5 & 333\end{array}$
$\begin{array}{llll}983 & -34 & 5 & 279\end{array}$
$\begin{array}{llll}980 & -33 & 9 & 268\end{array}$

PP TT WV DD PP TT WV DD DAY 5
982-20 9188
979 -20 9210
975-16 18209
971 -14 19210
967-12 9239
963-13 17213
$960-1125212$
966 -28 24187
DAY 12
978-39
977-39
978-39
978-39
$\begin{array}{llll}979 & -36 & 3 & 253\end{array}$
$\begin{array}{llll}978 & -33 & 5 & 260\end{array}$
$979-30 \quad 5258$
979 -28 11220
DAY 19
1014-32 0
1014-29 1360
1013-31 0
$\begin{array}{lll}1012 & -36 & 3 \\ 341\end{array}$
$1011-35 \quad 4347$
$\begin{array}{llll}1010 & -33 & 5 & 1\end{array}$
1009-33 4357
1009 -32 3.357

## DAY 26

$\begin{array}{llll}978 & -34 & 7 & 271\end{array}$
$\begin{array}{llll}975 & -35 & 8 & 261\end{array}$
$\begin{array}{lllll}975 & -37 & 4 & 285\end{array}$
$\begin{array}{llll}975 & -44 & 4 & 23\end{array}$
$\begin{array}{llll}977 & -41 & 3 & 23\end{array}$
980-43 2119
979 -34 11199
978 -36 19191

DAY 6
971-29 22192
$973-2922184$
975 -28 10165
$\begin{array}{llll}974 & -27 & 2 & 33\end{array}$
$\begin{array}{llll}974 & -26 & 3 & 2\end{array}$
$\begin{array}{llll}976 & -26 & 0 & 0\end{array}$
978-33 0 0
$\begin{array}{llll}977 & -31 & 2 & 122\end{array}$
DAY 13
979 -27 12213
979-27 12220
979 -28 17206
979 -28 17209
979 -29 12198
$\begin{array}{llll}980 & -32 & 14 & 187\end{array}$
$\begin{array}{llll}980 & -30 & 10 & 209\end{array}$
$\begin{array}{lllll}980 & -31 & 6 & 170\end{array}$ DAY 20
1008-34 0 0
1007-35 $0 \quad 0$
1007-35 2300
1005-32 0
1005-29 2284
1004-34 2333
1004-36 1208
1003-34 1307
DAY 27
$\begin{array}{llll}979 & -36 & 19 & 192\end{array}$
$\begin{array}{llll}977 & -36 & 11 & 182\end{array}$
$\begin{array}{llll}976 & -31 & 6 & 213\end{array}$
$\begin{array}{llll}976 & -35 & 1 & 104\end{array}$
976-33 4230
$\begin{array}{llll}977 & -35 & 3 & 227\end{array}$
$\begin{array}{llll}978 & -34 & 5 & 265\end{array}$
$979-32 \quad 7261$

PP TT W DD DAY 7
976-32 2351
$\begin{array}{llll}974 & -30 & 6 & 324\end{array}$
971 -28 4330
969-20 5278
968-21 2324
967-15 $10 \quad 295$
968-17 7181
971-17 11229
DAY 14
$\begin{array}{llll}980 & -32 & 7198\end{array}$
979 -30 10198
$\begin{array}{llll}979 & -30 & 8 & 191\end{array}$
$\begin{array}{llll}979 & -32 & 5 & 227\end{array}$
$\begin{array}{llll}978 & -32 & 3 & 288\end{array}$
977-28 12222
978 -27 20199
$\begin{array}{llll}980 & -29 & 8 & 191\end{array}$
DAY 21
1003-37 156
$\begin{array}{llll}1002 & -36 & 2 & 88\end{array}$
$\begin{array}{llll}1002 & -36 & 2 & 35\end{array}$
$\begin{array}{llll}1002 & -34 & 1 & 90\end{array}$
1002-33 2153
1001-31 0 0
$\begin{array}{llll}1000 & -31 & 1 & 120\end{array}$
1000-31 0
DAY 28
981-33 5265
$\begin{array}{llll}981 & -30 & 6 & 261\end{array}$
$981-29 \quad 4274$
982-22 14202
983-23 12205
$\begin{array}{llll}985 & -30 & 8 & 156\end{array}$
$\begin{array}{llll}984 & -33 & 5 & 164\end{array}$
$\begin{array}{llll}982 & -34 \quad 4 & 126\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-31.3$ Std dev $=6.4$ max $=-10.5$ at 1730 GMT ON dAY 5 min $=-49.0$ at 400 GMt ON. dAY 25
* Theta (K) * MEAN $=242.89$
* PRESSURE (MB) * MEAN $=985.8$ STD DEV $=11.3$ MAX $=1013.8$ at 20 GMT ON DAY 19 min $=958.1$ at 1840 gMt on day 5
* WINDS (M/S) * MEAN $=6.2 \mathrm{STD}$ DEV $=5.2$ RESULTANT $=4.4 \mathrm{FROM} 207$. CONSTANCY $=0.71 \mathrm{MAX}=29.5$ FROM 191. AT 2130 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ HINDS: $5.8 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 6 & 2 & 1 & 1 & 1 & 2 & 1 & 6 & 17 & 25 & 8 & 3 & 6 & 5 & 7 & 7\end{array}$

| HR | PP | Tt | VV DD |
| :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |
| 00 | 984 | -39 | 4202 |
| 03 | 984 | -40 | 3154 |
| 06 | 983 | -30 | 11177 |
| 09 | 982 | -27 | 12196 |
| 12 | 980 | -24 | 13208 |
| 15 | 979 | -27 | 17195 |
| 18 | 979 | -37 | 22203 |
| 21 | 977 | -33 | 19206 |
|  |  | DAY | 8 |
| 00 | 982 | -29 | 8187 |
| 03 | 983 | -33 | 4181 |
| 06 | 983 | -34 | 5202 |
| 09 | 982 | -35 | 5174 |
| 12 | 982 | -37 | 1278 |
| 15 | 981 | -33 | 1284 |
| 18 | 979 | -38 | 1313 |
| 21 | 977 | -39 | 2313 |
|  |  | DAY | 15 |
| 00 | 984 | -34 | 15201 |
| 03 | 984 | -41 | 20188 |
| 06 | 983 | -40 | 18192 |
| 09 | 981 | -39 | 19195 |
| 12 | 977 | -34 | 24206 |
| 15 | 973 | -26 | 24213 |
| 18 | 968 | -22 | 23216 |
| 21 | 962 | -22 | 26208 |
|  |  |  | 22 |

PP TT VV DD PP TT VV DD DAY 2 DAY 3
972 - 3118192
968-27 20195
965-26 18201
$961-2220206$
$960-2212 \quad 203$
$958-2413196$
$957-2120201$
958 -21 17209
DAY 9
976-40 3140
975-40
974-41
973-43
973-43
972-39
$971-34 \quad 6206$
$970-33 \quad 9185$
DAY 16

958-19 23202
961-22 16184
965-25 14201
965-24 13219
$\begin{array}{lll}964 & -2317194\end{array}$
961-21 17216
959-20 18198
958-21 17208
DAY 10
970-33 10196
$\begin{array}{llll}970 & -32 & 14 & 202\end{array}$
$971-3412195$
$\begin{array}{lllll}973 & -34 & 11 & 192\end{array}$
$\begin{array}{lllll}974 & -36 & 8 & 178\end{array}$
$\begin{array}{llll}974 & -35 & 9 & 189\end{array}$
$\begin{array}{llll}974 & -37 & 5 & 243\end{array}$
$974-394240$
DAY 17

| PP TT VV | DD. |
| :--- | :--- |
| DAY | 4 |

PP TT VV DD

958-21 13208
957-20 6210
955-18 20213
955-17 $17 \quad 215$
$954-16 \quad 20 \quad 213$
955-15 $16 \quad 217$
955-17 27210
$\begin{array}{llll}960 & -17 & 17 & 206\end{array}$ DAY 11
975-36 2279
$\begin{array}{llll}975 & -36 & 262\end{array}$
975-43 1122
$\begin{array}{llll}976 & -42 & 2122\end{array}$
$\begin{array}{llll}976 & -41 & 5 & 187\end{array}$
976-40 5194 976-42 4208 $977-414213$

DAY 18

$$
\text { DAY } 5
$$

963-20 13201
966-22 7192
$\begin{array}{llll}966 & -21 & 8 & 181\end{array}$
965-21 8203
965-22 5279
966-20 13206
969-23 $14 \quad 185$
972-26 7188 DAY 12
$\begin{array}{llll}977 & -38 & 9 & 195\end{array}$
$\begin{array}{llll}977 & -36 & 9 & 195\end{array}$
$\begin{array}{lllll}977 & -38 & 9 & 185\end{array}$
$\begin{array}{lllll}978 & -37 & 14 & 202\end{array}$
$\begin{array}{llll}979 & -36 & 11 & 187\end{array}$
$\begin{array}{lllll}979 & -38 & 15 & 192\end{array}$
$\begin{array}{lllll}980 & -36 & 16 & 198\end{array}$
981-36 16202 DAY 19

## PP TT VV DD

 DAY 6972-25 10185
972-24 14187
$972-2416198$
973-24 11196
973-23 11213
$\begin{array}{llll}973 & -24 & 7 & 210\end{array}$

| 973 | -26 | 3 |
| :--- | :--- | :--- |

972-24 0 DAY 13
$\begin{array}{llll}982 & -35 & 18 & 201\end{array}$
983-37 16201
$\begin{array}{lllll}983 & -37 & 13 & 188\end{array}$
983-38 14189
$984-40 \quad 9182$
$\begin{array}{lllll}985 & -36 & 10 & 184\end{array}$
$\begin{array}{llll}985 & -39 & 8 & 180\end{array}$
$987-407187$ DAY 20

PP TT VV DD DAY 7
972-29 5 196
972-29 8187
973-31 3219
975-29 3209
$976-30 \quad 9202$
$\begin{array}{llll}978 & -34 & 3 & 234\end{array}$
$\begin{array}{llll}981 & -34 & 0 & 0\end{array}$
$982-30 \quad 7212$
DAY 14
987-35 7180
987-43 1315
$987-36 \quad 5222$
988-40 0
987-42 0
$\begin{array}{llll}986 & -41 & 1 & 109\end{array}$
$\begin{array}{llll}985 & -37 & 2 & 187\end{array}$
$985-3410188$ DAY 21

* temperature ( $C$ ) * mean $=-31.0$ Std dev $=7.8$ max $=-14.2$ at 1410 GMT ON DAY 4 MIN $=-44.5$ At 1520 gMt on day 9
* THETA (K) * MEAN $=244.01$
* PRESSURE (MB) * MEAN $=973.6$ STD DEV $=9.0$ MAX $=987.7$ AT 940 GMT ON DAY 14 MIN $=953.2$ AT 1140 GMT ON DAY 4
* WINDS (M/S) * MEAN $=10.6$ STD DEV $=6.7$ RESULTANT $=10.3$ FROM 200. CONSTANCY $=0.96$ MAX $=33.0$ FROM 223. AT 1820 GMT DAY 15
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 51.6 \% PRESSURE: $51.6 \%$ WINDS: 53.6 \%
 $\begin{array}{llllllllllllllllllll}\text { PERCENT: } & 11 & 10 & 9 & 10 & 10 & 7 & 11 & 8 & 7 & 8 & 7 & 2 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 3 & 1 & 1 & 24 & 54 & 7 & 2 & 4 & 2 & 3 & 0\end{array}$

APR 97
HR PP TT VV DD DAY 1
$00 \quad 974-2511201$ $\begin{array}{lllll}03 & 972 & -27 & 248\end{array}$ $\begin{array}{lllll}06 & 970 & -33 & 3 & 330\end{array}$ $\begin{array}{lllll}09 & 970 & -32 & 4 & 307\end{array}$ $\begin{array}{llll}971 & -32 & 2 & 292\end{array}$ $\begin{array}{lllll}15 & 971 & -33 & 4 & 306\end{array}$ $\begin{array}{llll}18 & 972 & -30 & 2\end{array} 234$
$\begin{array}{llll}21 & 973 & -25 & 9\end{array}$ DAY 8
00 974-19 8202
$\begin{array}{lllll}03 & 974 & -20 & 14 & 184\end{array}$
$\begin{array}{llll}06 & 977 & -20 & 10 \\ 205\end{array}$
$\begin{array}{llll}09 & 979 & -19 & 10 \\ 198\end{array}$
$\begin{array}{lllll}12 & 981 & -20 & 810\end{array}$
$\begin{array}{lllll}15 & 983 & -22 & 12 & 188\end{array}$
$\begin{array}{lllll}18 & 985 & -23 & 15 & 198\end{array}$
$\begin{array}{lll}21 & 987 & -2312185\end{array}$ DAY 15
$\begin{array}{llllll}00 & 981 & -30 & 11 & 198\end{array}$
$\begin{array}{lllll}03 & 982 & -27 & 13 & 217\end{array}$
$06 \quad 983-2516220$
$09 \quad 985-2515 \quad 222$
$\begin{array}{lllll}12 & 986 & -23 & 14 & 220\end{array}$
$\begin{array}{lllll}15 & 988 & -29 & 8 & 178\end{array}$
$\begin{array}{llll}18 & 989 & -30 & 9 \\ 174\end{array}$
$\begin{array}{llll}21 & 990 & -28 & 11 \\ 209\end{array}$ DAY 22
$\begin{array}{lllll}00 & 999 & -31 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 999 & -31 & 4 & 177\end{array}$
$\begin{array}{lllll}06 & 999 & -30 & 8 & 153\end{array}$
09 1000-36 1149
$\begin{array}{lllll}12 & 999 & -37 & 2 & 320\end{array}$
$\begin{array}{lllll}15 & 999 & -37 & 2 & 95\end{array}$
$\begin{array}{lllll}18 & 998 & -37 & 3 & 57\end{array}$
$\begin{array}{lllll}21 & 997 & -36 & 0 & 0\end{array}$ DAY 29
$\begin{array}{llll}00 & 981 & -36 & 2118\end{array}$
$\begin{array}{llll}03 & 981 & -36 & 2 \\ 210\end{array}$
$\begin{array}{lllll}06 & 980 & -32 & 2 & 132\end{array}$
$\begin{array}{lllll}09 & 980 & -30 & 12 & 199\end{array}$
$\begin{array}{lllll}12 & 981 & -31 & 4 & 299\end{array}$
$\begin{array}{lllll}15 & 982 & -34 & 8 & 189\end{array}$
$\begin{array}{lllll}18 & 982 & -35 & 8 & 178\end{array}$

| 21 | 982 | -35 | 1 |
| :--- | :--- | :--- | :--- |

PP TT VV DD PP TT VV DD DAY 2
976-27 6205
976 -24 16201
978-25-11 191
$979-2313203$
$\begin{array}{llll}980 & -23 & 12 & 208\end{array}$
$\begin{array}{llll}980 & -25 & 7 & 209\end{array}$
$\begin{array}{lll}981 & -29 & 313\end{array}$
$981-32 \quad 6 \quad 323$ DAY 9
988-24 11172 989-22 11192 989-23 9191 989-27 11164 988 -29 9163 988-29 7182 987-29 7196 986-29 5187 DAY 16
991 -28 9202 991-27 4213 $\begin{array}{llll}991 & -31 & 3 & 185\end{array}$ 992-33 2174 $992-324230$ $993-28 \quad 6172$ $\begin{array}{llll}994 & -29 & 3 & 168\end{array}$ $995 \quad-33 \quad 4334$ DAY 23
996-39 2168 994-41 $\begin{array}{llll}9 & -41 & 0\end{array}$ 993-41 3225 992-41 4185 992-36 $\quad 5 \quad 215$ $\begin{array}{llll}992 & -37 & 10 & 194\end{array}$ $993-3510 \quad 215$ $\begin{array}{llll}994 & -37 & 8 & 185\end{array}$ DAY 30
981-39 2313
980-31 2213
$\begin{array}{llll}980 & -40 & 3 & 317\end{array}$
$\begin{array}{llll}981 & -37 & 4 & 313\end{array}$
$\begin{array}{llll}982 & -35 & 4 & 1\end{array}$
984-36 0 0
984-40 1305
$\begin{array}{llll}984 & -38 & 3 & 203\end{array}$

LAT : 78.48S LONG : 168.38E ELEVATION : 50 M


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-31.3$ STD DEV $=6.4$ MAX $=-10.5$ at 1730 GMT ON DAY 5 MIN $=-49.0$ at 400 GMt ON.DAY 25
* theta (K) * MEAN $=242.89$
* PRESSURE (MB) * MEAN $=985.8$ STD DEV $=11.3$ MAX $=1013.8$ at 20 GMT ON DAY 19 MIN $=958.1$ at 1840 GMT ON DAY 5
* WINDS (M/S) * MEAN $=6.2$ STD DEV $=5.2$ RESULTANT $=4.4$ FROM 207. CONSTANCY $=0.71$ MAX $=29.5$ FROM 191. AT 2130 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $5.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 6 & 2 & 1 & 1 & 1 & 2 & 1 & 6 & 17 & 25 & 8 & 3 & 6 & 5 & 7 & 7\end{array}$


PP TT VV DD PP TT VV DD DAY 2
972-31 18192
968-27 20195
965-26 18201
$961-22 \quad 20206$
$960-2212 \quad 203$
$958-2413196$
$957-2120201$
$958-2117209$ DAY 9
$976-40 \quad 3140$
975-40
974-41
973-43
973-43
972-39
$971-34 \quad 6206$
$970-33 \quad 9185$
DAY 16

## DAY 3

958-19 23202
961-22 16184
965-25 14201
965-24 13219
$\begin{array}{lllll}964 & -23 & 17 & 194\end{array}$
961-21 17216
959-20 18198
958-21 17208
DAY 10
970-33 10196
$\begin{array}{llll}970 & -32 & 14 & 202\end{array}$
$971-3412195$
973-34 11192
$\begin{array}{llll}974 & -36 & 8 & 178\end{array}$
$\begin{array}{llll}974 & -35 & 9 & 189\end{array}$
$\begin{array}{llll}974 & -37 & 5 & 243\end{array}$
974-39 4240
DAY 17
PP TT VV DD. PP TT VV DD

DAY 4
958-21 13208
957-20 6210
955-18 $20 \quad 213$
955-17 17215
$954-16 \quad 20213$
955-15 $16 \quad 217$
955-17 27210
960-17 17206 DAY 11
975-36 2279
$\begin{array}{llll}975 & -36 & 262\end{array}$
975-43 1122
$\begin{array}{llll}976 & -42 & 2122\end{array}$
$\begin{array}{llll}976 & -41 & 5 & 187\end{array}$
976-40 5194 976-42 4208 $977-414213$

DAY 18

$$
\text { DAY } 5
$$

963 -20 13201
$966-22 \quad 7192$
$\begin{array}{llll}966 & -21 & 8 & 181\end{array}$
965-21 8203
965-22 5279
966-20 13206
$\begin{array}{llll}969 & -23 & 14 & 185\end{array}$
$\begin{array}{llll}972 & -26 \quad 7188\end{array}$ DAY 12
$\begin{array}{llll}977 & -38 & 9 & 195\end{array}$
$\begin{array}{llll}977 & -36 & 9 & 195\end{array}$
$\begin{array}{llll}977 & -38 & 9 & 185\end{array}$
978-37 14202
$\begin{array}{llll}979 & -36 & 11 & 187\end{array}$
$\begin{array}{lllll}979 & -38 & 15 & 192\end{array}$
$\begin{array}{llll}980 & -36 & 16198\end{array}$
981-36 16202 DAY 19

## PP TT VV DD

 DAY 6972-25 10185
972-24 14187
972-24 16198
$\begin{array}{llll}973 & -24 & 11 & 196\end{array}$
973-23 11213
$\begin{array}{llll}973 & -24 & 7 & 210\end{array}$

| 973 | -26 | 3 |
| :--- | :--- | :--- |

972-24 0 0 DAY 13
$\begin{array}{llll}982 & -35 & 18 & 201\end{array}$
983-37 16201
983-37 13188
983-38 14189
$984-40 \quad 9 \quad 182$
$\begin{array}{lllll}985 & -36 & 10 & 184\end{array}$
985 -39 $\quad 8 \quad 180$
$987-407187$ DAY 20

PP TT VV DD DAY 7
$\begin{array}{llll}972 & -29 & 56\end{array}$
972-29 8187
$\begin{array}{llll}973 & -31 & 3 & 219\end{array}$
975-29 3209
$976-30 \quad 9202$
$\begin{array}{llll}978 & -34 & 3 & 234\end{array}$
$\begin{array}{llll}981 & -34 & 0 & 0\end{array}$
$982-30 \quad 7212$
DAY 14
$\begin{array}{llll}987 & -35 & 7 & 180\end{array}$
$\begin{array}{llll}987 & -43 & 1 & 315\end{array}$
$\begin{array}{llll}987 & -36 & 5 & 222\end{array}$
988-40 0
987-42 0
$\begin{array}{llll}986 & -41 & 1 & 109\end{array}$
$\begin{array}{llll}985 & -37 & 2 & 187\end{array}$
$985-3410188$ DAY 21

DAY 31

DAY 23
DAY 24
DAY 25

DAY 26

DAY 27
DAY 28

00


* temperature ( $C$ ) * mean $=-31.0$ Std dev $=7.8$ MAX $=-14.2$ at 1410 GMt on day 4 min $=-44.5$ at 1520 GMt on day 9
* THETA (K) * MEAN $=244.01$
* PRESSURE (MB) * MEAN $=973.6$ STD DEV $=9.0$ MAX $=987.7$ AT 940 GMT ON DAY 14 MIN $=953.2$ AT 1140 GMT ON DAY 4
* $\operatorname{WINDS}(\mathrm{M} / \mathrm{S}) * \operatorname{MEAN}=10.6 \mathrm{STD}$ DEV $=6.7$ RESULTANT $=10.3$ FROM 200. CONSTANCY $=0.96$ MAX $=33.0$ FROM 223. AT 1820 GMT DAY 15
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 51.6 \% PRESSURE: 51.6\% WINDS: 53.6 \%

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 3 & 1 & 1 & 24 & 54 & 7 & 2 & 4 & 2 & 3 & 0\end{array}$

```
PP TT VV DD
DAY 2
```

PP TT VV DD
DAY 3
$\begin{array}{lll}\text { PP TT VV DD } \\ \text { DAY } & 4\end{array}$
PP TT VV DD DAY 5
PP TT VV DD DAY 6
PP TT VV DD DAY 7

DAY 11
DAY 12
DAY 13
DAY 14

DAY 15
DAY 16
DAY 17
DAY 18
00
03
06
09
12
15
18
21


* TEMPERATURE ( $C$ ) * MEAN $=-28.6$ STD DEV $=8.7$ MAX $=-12.4$ AT 840 GMT ON DAY 22 MIN $=-46.9$ AT 1600 GMT ON DAY 30
* THETA (K) * MEAN $=244.60$
* PRESSURE (MB) * MEAN $=999.8$ STD DEV $=4.8$ MAX $=1007.3$ at 2040 GMT ON DAY 27 MIN $=982.6$ at 440 GMt ON DAY 19 * WINDS (M/S) * MEAN $=10.5$ STD DEV $=7.1$ RESULTANT $=10.2$ FROM 195. CONSTANCY $=0.97 \mathrm{MAX}=30.7$ FROM 199. AT 1420 GMT DAY 19 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $61.2 \%$ PRESSURE: $61.2 \%$ WINDS: $67.5 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 $\begin{array}{llrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 1 & 0 & 0 & 0 & 0 & 0 & 4 & 7 & 37 & 48 & 1 & 0 & 1 & 0 & 0 & 0\end{array}$


|  |  | $\begin{array}{r} \text { VV } \\ 4 \end{array}$ |
| :---: | :---: | :---: |
| 968 | -16 | 15212 |
| 968 | -18 | 20210 |
| 973 | -20 | 24195 |
| 979 | -22 | 18206 |
| 983 | -22 | 16206 |
| 985 | -21 | 15202 |
| 987 | -22 | 14185 |
| 988 | -24 | 13201 |
|  | DAY | 11 |
| 959 | -36 | 1292 |
| 956 | -38 | 0 |
| 954 | -37 | 0 |
| 954 | -40 | 7180 |
| 957 | -39 | 5147 |
| 959 | -40 | 7164 |
| 962 | -37 | 3158 |
| 967 | -37 | 9151 |
|  | DAY | 18 |
| 983 | -34 |  |
| 981 | -37 |  |
| 981 | -38 |  |
| 980 | -42 |  |
| 980 | -40 |  |
| 980 | -34 |  |
| 981 | -39 |  |
| 983 | -39 |  |
|  | DAY | 25 |
| 985 | -35 | 17201 |
| 984 | -33 | 16184 |
| 982 | -32 | 18199 |
| 982 | -30 | 12216 |
| 981 | -32 | 10201 |
| 979 | -33 |  |
| 978 | -32 |  |
| 976 | -37 |  |



PP TT VV DD DAY 6
$\begin{array}{llll}977 & -26 & 6 & 161\end{array}$
$\begin{array}{llll}978 & -26 & 3 & 161\end{array}$
979 -28 9192
$979-2714205$
$980-2614215$
977-29 23203
975-23 24203
975-21 13210 DAY 13
987-30 18213
988-27 16206
988-28 12202
$\begin{array}{lll}987 & -26 \quad 18 & 210\end{array}$
987-26 15206
985-25 $10 \quad 215$
$\begin{array}{llll}982 & -28 & 10 & 187\end{array}$
979-26 14198 DAY 20
987-42
986-42
987-38
988-38 $987-42$
$\begin{array}{lll}989 & -35 \quad 5 \quad 215\end{array}$
$\begin{array}{llll}989 & -38 & 5 & 185\end{array}$
989-38
989-38
DAY 27
987-32 7201
$\begin{array}{llll}987 & -34 & 5 & 189\end{array}$
$\begin{array}{llll}987 & -35 & 8 & 175\end{array}$
$\begin{array}{llll}988 & -38 & 6184\end{array}$
988-40
987-38
986-39
986-41

PP TT VV DD DAY 7
$\begin{array}{llll}974 & -23 & 14 & 199\end{array}$
$973-2313203$
971-19 14209
969 - 2118202
$966-2218198$
964-20 22209
965 -20 $20 \quad 196$
966-23 13188
DAY 14
978-29 9178
977-29 5216
974-30
972-33
971-35
970-37
969-38
969-37
DAY 21
989-39
988-42
988-42
987-42
987-41
987-40
986-41
DAY 28
987-45
$\begin{array}{llll}988 & -45 & 3 & 208\end{array}$
$988-453202$
$989-43 \quad 4216$
989-41 4201
$\begin{array}{llll}989 & -42 \quad 4 & 217\end{array}$
$\begin{array}{lllll}988 & -44 & 3 & 215\end{array}$
987-44 3201

* TEMPERATURE ( $C$ ) * MEAN $=-34.2$ STD DEV $=8.1$ MAX $=-16.4$ AT 0 GMT ON DAY 4 MIN $=-51.6$ AT 1220 GMt ON dAY 29
* THETA (K) * MEAN $=240.37$
* PRESSURE (MB) * MEAN $=979.9$ STD DEV $=7.7$ MAX $=989.9$ AT 520 GMT ON DAY 17 MIN $=952.8$ AT 730 GMT ON DAY 11
* WINDS (M/S) * MEAN $=11.2$ STD DEV $=5.9$ RESULTANT $=10.8$ FROM 201. CONSTANCY $=0.97$ MAX $=25.9$ FROM 198. AT 620 GMT DAY 4
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: $0.0 \%$ WINDS: $37.5 \%$


$\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 5 & 20 & 60 & 10 & 2 & 1 & 1 & 1 & 0\end{array}$

AUG 97

HR PP TT VV DD | DAY | 1 |
| ---: | ---: | ---: |

$\begin{array}{lllll}00 & 989 & -41 & 12 & 194\end{array}$
$\begin{array}{lllll}03 & 989 & -42 & 8 & 191\end{array}$
$\begin{array}{lllll}06 & 989 & -40 & 11 & 205\end{array}$
$\begin{array}{lllll}09 & 987 & -38 & 11 & 206\end{array}$
$\begin{array}{lllll}12 & 985 & -37 & 11 & 213\end{array}$
$\begin{array}{llll}15 & 983 & -39 & 2\end{array}$
$\begin{array}{lll}18 & 980 & -42\end{array}$
$21 \quad 975-45$
DAY 8
$\begin{array}{llllll}00 & 973 & -33 & 10 & 205\end{array}$
$\begin{array}{llllll}03 & 972 & -35 & 17 & 196\end{array}$
$\begin{array}{llllll}06 & 972 & -36 & 10 & 206\end{array}$
$\begin{array}{lllll}09 & 969 & -33 & 15 & 201\end{array}$
$\begin{array}{llll}12 & 966 & -39 & 254\end{array}$
$\begin{array}{lllll}15 & 962 & -39 & 5 & 270\end{array}$
$\begin{array}{lllll}18 & 959 & -40 & 5 & 278\end{array}$
$\begin{array}{llll}21 & 955-394278\end{array}$ DAY 15
$00 \quad 984-2415206$
$\begin{array}{lllll}03 & 982 & -23 & 13 & 182\end{array}$
$\begin{array}{lllll}06 & 982 & -27 & 8 & 168\end{array}$
$\begin{array}{lllll}09 & 983 & -33 & 7 & 174\end{array}$
$\begin{array}{lllll}12 & 983 & -35 & 11 & 192\end{array}$
$\begin{array}{lllll}15 & 981 & -33 & 6 & 187\end{array}$
$\begin{array}{llll}18 & 976 & -27 & 9 \\ 202\end{array}$
$\begin{array}{lllll}21 & 974 & -27 & 10 & 191\end{array}$ DAY 22
$\begin{array}{lllll}00 & 984 & -29 & 8 & 195\end{array}$

| 03 | 985 | -32 | 9 |
| :--- | :--- | :--- | :--- |


| 06 | 987 | -29 | 6 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llllll}09 & 988 & -30 & 11 & 199\end{array}$
$\begin{array}{ll}12 & 989 \\ -35\end{array}$
$\begin{array}{llll}15 & 989 & -38\end{array}$
$\begin{array}{lllll}18 & 989 & -36 & 9 & 175\end{array}$
$\begin{array}{lllll}21 & 990 & -35 & 6 & 174\end{array}$
DAY 29
$\begin{array}{lllll}00 & 991 & -38 & 17 & 208\end{array}$
$\begin{array}{llllll}03 & 991 & -41 & 16 & 188\end{array}$
$\begin{array}{lllll}06 & 991 & -39 & 19 & 191\end{array}$
$\begin{array}{llllll}09 & 991 & -40 & 20 & 198\end{array}$
$\begin{array}{lllll}12 & 991 & -39 & 14 & 189\end{array}$
$\begin{array}{lllll}15 & 991 & -40 & 16 & 198\end{array}$
$\begin{array}{lllll}18 & 989 & -40 & 18 & 192\end{array}$
$\begin{array}{lllll}21 & 989 & -40 & 17 & 189\end{array}$


PP TT WV DD

## DAY 4

969-54
970-53
973-49
$\begin{array}{llll}976 & -45 & 9 & 182\end{array}$
$\begin{array}{lll}977 & -47 & 6158\end{array}$
$\begin{array}{llll}976 & -36 & 17 & 198\end{array}$
$977-4116199$
978-40 14181 DAY 11
962-19 14192
962-22 14175
971-35 12180
$\begin{array}{llll}977 & -37 & 13175\end{array}$
980-37 14191
$\begin{array}{llll}983 & -37 & 8 & 184\end{array}$
983 -37 6167
983-40
DAY 18
$\begin{array}{llll}983 & -32 & 9 & 194\end{array}$
$\begin{array}{llll}983 & -33 & 6 & 180\end{array}$
982-34
981-36
978-38
976-38
975-34
976-34
DAY 25
$\begin{array}{llll}980 & -35 & 5 & 191\end{array}$
$\begin{array}{lllll}980 & -31 & 10 & 205\end{array}$
$983-3113205$
$\begin{array}{llll}983 & -35 & 12185\end{array}$
$\begin{array}{llll}985 & -35 & 5 & 170\end{array}$
985-40
984-39
984-35

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-36.2$ STD DEV $=7.6$ MAX $=-18.0$ AT 1440 GMT ON DAY 10 MIN $=-54.4$ AT 400 GMT ON DAY 4
* THETA (K) * MEAN $=238.49$
* PRESSURE (MB) * MEAN $=977.6$ STD DEV $=8.7$ MAX $=991.8$ at 130 GMT ON DAY 29 MIN $=945.0$ at 450 GMt ON DAY 9
* WINDS (M/S) * MEAN $=11.5$ STD DEV $=4.9$ RESULTANT $=11.0$ FROM 197. CONSTANCY $=0.96$ max $=30.0$ fROM 222. AT 330 GMT DAY 9
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $37.1 \%$

 WIND DIRECTION: $N$ NNE NE ENE $\quad$ E ESE $\quad$ SE SSE $\quad S$ SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{llllllllllllllll}0 & 0 & 0 & 0 & 0 & 0 & 0 & 4 & 35 & 48 & 6 & 2 & 5 & 0 & 0 & 0\end{array}$

| PP | Tt | W DD | PP | TT |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | day | 1 |  | DAY | 2 |  |  | DAY | 3 |  |
| 984 | -41 |  | 975 | -34 |  |  | 983 | -19 | 14 | 206 |
| 983 | -43 |  | 974 | -32 |  |  | 984 | -17 | 15 | 219 |
| 982 | -43 |  | 974 | -26 |  |  | 986 | -17 | 10 | 202 |
| 981 | -39 |  | 974 | -24 | 12 | 199 | 987 | -21 | 4 | 226 |
| 980 | -46 |  | 976 | -23 | 6 | 247 | 987 | -23 | 11 | 198 |
| 979 | -45 |  | 978 | -26 | 0 | 0 | 987 | -20 | 11 | 196 |
| 977 | -45 |  | 979 | -19 | 16 | 217 | 987 | -23 | 10 | 195 |
| 976 | -43 |  | 982 | -20 | 11 | 201 | 987 | -27 | 8 | 194 |
|  | DAY | 8 |  | DAY | 9 |  |  | DAY | 10 |  |
| 984 | -33 | 8196 | 985 | -31 |  |  |  |  |  |  |
| 986 | -34 | 6178 | 981 | -32 | 5 | 168 |  |  |  |  |
| 988 | -35 | 4191 | 977 | -32 | 14 | 182 |  |  |  |  |
| 989 | -38 |  | 973 | -28 | 13 | 182 |  |  |  |  |
| 990 | -38 |  | 969 | -31 | 23 | 201 |  |  |  |  |
| 990 | -40 |  |  |  |  |  |  |  |  |  |
| 989 | -38 |  |  |  |  |  |  |  |  |  |

DAY 28

DAY 29
00
03
06
09
12
15
18
21

LAT : 78.48S LONG : 168.38E ELEVATION : 50 M

PP TT VV DD DAY 7
977 -25 14203
977 -26 14202
977 -24 17213
$\begin{array}{llll}978 & -25 & 8 & 196\end{array}$
$\begin{array}{lll}979 & -29 \quad 6191\end{array}$
$\begin{array}{llll}980 & -29 & 7 & 175\end{array}$
$\begin{array}{llll}981 & -31 & 5 & 164\end{array}$
982 -34 2164 DAY 14

| PP | TT | V | DD |  | PP | TT | V | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  |
| 969 | -24 | 11 | 188 | 976 | -25 | 16 | 198 |  |
| 969 | -23 | 8 | 202 |  | 977 | -24 | 18 | 201 |
| 969 | -26 | 16 | 188 | 977 | -22 | 10 | 206 |  |
| 971 | -27 | 15 | 189 |  | 976 | -21 | 19 | 202 |
| 972 | -24 | 14 | 213 |  | 978 | -26 | 11 | 184 |
| 972 | -23 | 11 | 192 | 978 | -25 | 14 | 199 |  |
| 973 | -25 | 10 | 195 |  | 978 | -24 | 15 | 206 |
| 974 | -26 | 12 | 188 | 978 | -23 | 17 | 209 |  |
| DAY | 12 |  |  | DAY | 13 |  |  |  |

DAY 4
987-27 6188
986-26 4261
$\begin{array}{llll}984 & -29 & 3 & 261\end{array}$
982-36 1261
$\begin{array}{llll}978 & -32 & 3 & 292\end{array}$
$\begin{array}{llll}974 & -37 & 0 & 0\end{array}$
$\begin{array}{lllll}972 & -30 & 7 & 177\end{array}$
969 -27 13195 DAY 11


03
06
09
12

DAY 30

DAY 22

DAY 19

-     - 
* temperature ( $C$ ) * mean $=-29.2$ Std dev $=7.4$ max $=-16.2$ at 120 GMt on day 3 min $=-48.0$ at 1050 gmt on day 1
* theta (K) * MEAN $=245.47$
* PRESSURE (MB) * MEAN $=979.3$ STD DEV $=5.8$ MAX $=990.7$ AT 1450 GMT ON DAY 8 MIN $=968.0$ AT 50 GMT ON DAY 5
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $71.2 \%$ PRESSURE: $71.2 \%$ WINDS: $78.3 \%$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV DD |  |  | DAY | 1 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
| 003 | -5 | 4 | 75 |  |  | $\begin{array}{lllll}03 & 983 & -6 & 4 & 81\end{array}$ $\begin{array}{lllll}06 & 983 & -6 & 4 & 85\end{array}$ $\begin{array}{lllll}09 & 984 & -6 & 3 & 88\end{array}$ $\begin{array}{lllll}12 & 985 & -7 & 2 & 85\end{array}$ $\begin{array}{lllll}15 & 985 & -7 & 2 & 90\end{array}$ $\begin{array}{lllll}18 & 986 & -5 & 1 & 85\end{array}$ $\begin{array}{lllll}21 & 986 & -3 & 0 & 0\end{array}$ DAY 8

$\begin{array}{lllll}00 & 982 & -8 & 7 & 85\end{array}$ $\begin{array}{lllll}03 & 983 & -8 & 6 & 96\end{array}$ $\begin{array}{lllll}06 & 983 & -9 & 3 & 135\end{array}$ $\begin{array}{lllll}09 & 983 & -9 & 4 & 173\end{array}$ $\begin{array}{lllll}12 & 983 & -9 & 4 & 175\end{array}$ $\begin{array}{lllll}15 & 984 & -9 & 4 & 187\end{array}$ $\begin{array}{lllll}18 & 984 & -8 & 5 & 179\end{array}$ $\begin{array}{lllll}21 & 985 & -6 & 0 & 0\end{array}$ DAY 15
$\begin{array}{lllll}00 & 982 & -11 & 4 & 103\end{array}$ $\begin{array}{lllll}03 & 983 & -11 & 4 & 92\end{array}$ $\begin{array}{lllll}06 & 984 & -10 & 3 & 95\end{array}$ $\begin{array}{lllll}09 & 985 & -11 & 4 & 106\end{array}$ $\begin{array}{llll}12 & 986 & -12 & 2\end{array} 96$ $\begin{array}{lllll}15 & 987 & -12 & 4 & 127\end{array}$ $\begin{array}{lllll}18 & 988 & -12 & 3 & 97\end{array}$ $\begin{array}{llll}21 & 989 & -10 & 4\end{array}$ DAY 22

$\begin{array}{lllll}00 & 989 & -5 & 1 & 112\end{array}$ $\begin{array}{lllll}03 & 989 & -3 & 1 & 187\end{array}$ | 06 | 990 | -5 | 2 |
| :--- | :--- | :--- | :--- | $\begin{array}{lllll}09 & 991 & -5 & 1 & 238\end{array}$ $\begin{array}{lllll}12 & 991 & -7 & 1 & 294\end{array}$ $\begin{array}{lllll}15 & 992 & -7 & 2 & 353\end{array}$ $\begin{array}{lllll}18 & 993 & -6 & 1 & 245\end{array}$

$\begin{array}{llll}21 & 994 & -6 & 237\end{array}$ DAY 29
$\begin{array}{lllll}00 & 985 & -11 & 3 & 58\end{array}$
$\begin{array}{lllll}03 & 984 & -11 & 3 & 89\end{array}$
$\begin{array}{lllll}06 & 985 & -11 & 4 & 120\end{array}$
$\begin{array}{lllll}09 & 984 & -11 & 6 & 144\end{array}$
$\begin{array}{lllll}12 & 985 & -11 & 5 & 131\end{array}$
$\begin{array}{lllll}15 & 985 & -11 & 6 & 134\end{array}$
$\begin{array}{lllll}18 & 986 & -10 & 6 & 126\end{array}$
$\begin{array}{llll}21 & 987-10 \quad 6 \quad 120\end{array}$

$\begin{array}{llll}985 & -4 & 4 & 172\end{array}$
$\begin{array}{llll}985 & -6 & 4 & 192\end{array}$
$\begin{array}{llll}985 & -7 & 6 & 196\end{array}$
$\begin{array}{llll}984 & -9 & 7 & 193\end{array}$
982-10 5204
$\begin{array}{llll}982 & -7 & 8 & 144\end{array}$
$\begin{array}{llll}981 & -7 & 6 & 152\end{array}$
DAY 9
$\begin{array}{llll}985 & -7 & 3 & 172\end{array}$
$\begin{array}{llll}985 & -8 & 4 & 197\end{array}$
$\begin{array}{llll}986 & -8 & 4 & 210\end{array}$
$\begin{array}{llll}986 & -9 & 3 & 263\end{array}$
$\begin{array}{lll}987 & -9 & 4254\end{array}$
$\begin{array}{llll}987 & -9 & 4 & 262\end{array}$
$\begin{array}{llll}987 & -8 & 6 & 263\end{array}$
988 -8 6268 DAY 16
990-10 $\quad 3 \quad 89$
990-11 5123
$\begin{array}{llll}990 & -10 & 4 & 128\end{array}$
$\begin{array}{llll}991 & -13 \quad 3 \quad 126\end{array}$
991-15 3144
$\begin{array}{lll}991 & -16 \quad 4144\end{array}$
991-15 5150
991-14 7147 DAY 23
$\begin{array}{llll}994 & -5 & 2168\end{array}$
$\begin{array}{llll}995 & -4 & 1 & 193\end{array}$
$\begin{array}{llll}995 & -5 & 3 & 165\end{array}$
$\begin{array}{llll}994 & -6 & 2151\end{array}$
$\begin{array}{llll}994 & -7 & 4 & 356\end{array}$
$\begin{array}{llll}993 & -7 & 2 & 40\end{array}$
$\begin{array}{llll}993 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}992 & -6 & 232\end{array}$ DAY 30
988-11 7157
989-10 5162
990-13 $\quad 5162$
991-11 5158
992-11 6147
993-11 6155
994-11 7151
$\begin{array}{llllllll}994 & -9 & 5 & 171 & 994 & -11 & 5 & 178\end{array}$


* temperature ( $C$ ) * mean $=-8.6$ Std dev $=2.7$ max $=-0.6$ at 2350 GMT ON dAY 4 min $=-18.2$ at 1410 GMt on day 31
* theta (K) * MEAN $=265.57$
* PRESSURE (MB) * MEAN $=986.8$ STD DEV $=4.3$ MAX $=994.8$ at 40 GMT ON DAY 31 MIN $=978.1$ at 1520 GMT ON DAY 3
* WINDS (M/S) * MEAN $=4.0$ STD DEV $=1.9$ RESULTANT $=2.1$ FROM 165. CONSTANCY $=0.51$ MAX $=10.4$ FROM 254. AT 140 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 5 & 1 & 5 & 4 & 10 & 7 & 8 & 16 & 13 & 7 & 8 & 8 & 6 & 1 & 0 & 0\end{array}$


| PP | TT | VV | DD | PP |  | vv | DD | PP | IT | N | DD | PP | TT | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 994 | -13 |  | 345 | 991 | -12 | 4 | 27 | 993 | -9 |  | 122 | 989 | -13 |  | 257 |
| 993 | -11 | 1 | 6 | 991 | -11 | 3 | 17 | 992 | -9 | 4 | 115 | 989 | -11 | 2 | 238 |
| 992 | -15 |  | 350 | 991 | -10 | 4 | 11 | 991 | -13 |  | 202 | 988 | -13 | 3 | 298 |
| 991 | -16 | 1 | 1 | 992 | -10 | 4 | 349 | 991 | -12 |  | 247 | 988 | -13 |  | 300 |
| 991 | -21 | 2 | 56 | 993 | -11 | 3 | 350 | 991 | -16 |  | 264 | 988 | -14 |  | 328 |
| 990 | -21 | 3 | 42 | 993 | -13 | 5 | 353 | 991 | -16 |  | 284 | 988 | -15 |  |  |
| 990 | -19 | 3 | 37 | 993 | -13 | 4 | 22 | 991 | -16 |  | 300 | 988 | -20 |  | 307 |
| 991 | -13 | 3 | 21 | 993 | -13 | 4 | 69 | 990 | -15 |  | 250 | 988 | -18 |  | 337 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 994 | -19 | 3 | 184 | 993 | -18 | 4 | 228 | 984 | -20 |  | 218 | 980 | -18 |  | 7 |
| 994 | -18 | 4 | 166 | 992 | -19 | 4 | 233 | 983 | -20 | 5 | 222 | 981 | -19 |  | 200 |
| 994 | -19 | 4 | 201 | 991 | -20 | 4 | 245 | 982 | -21 | 5 | 212 | 981 | -21 | 6 | 188 |
| 994 | -21 | 4 | 180 | 990 | -19 | 4 | 211 | 981 | -21 | 4 | 239 | 981 | -25 | 6 | 177 |
| 994 | -21 | 3 | 177 | 989 | -19 | 5 | 226 | 981 | -19 | 5 | 231 | 982 | -27 |  | 210 |
| 994 | -22 | 3 | 210 | 987 | -19 | 4 | 232 | 981 | -18 | 2 | 166 | 983 | -29 |  | 207 |
| 994 | -21 | 4 | 198 | 986 | -19 | 4 | 218 | 980 | -18 | 5 | 197 | 983 | -29 |  | 201 |
| 994 | -19 | 3 | 207 | 985 | -19 | 4 | 228 | 980 | -18 | 6 | 190 | 984 | -22 |  | 240 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 987 | -17 | 11 | 200 | 996 | -22 | 3 | 124 | 985 | -6 | 10 | 122 | 977 | 13 | 10 | 173 |
| 989 | -18 | 10 | 247 | 994 | -19 | 5 | 138 | 982 | -7 | 9 | 135 | 977 | 14 |  | 191 |
| 991 | -23 | 8 | 250 | 992 | -18 | 11 | 141 | 980 | -7 |  | 142 | 977 | -17 |  | 204 |
| 993 | -23 | 6 | 250 | 989 | -15 | 11 | 118 | 978 | -7 | 10 | 142 | 977 | -18 |  | 207 |
| 994 | -25 |  | 267 | 989 | -10 | 5 | 90 | 977 | -9 | 12 | 148 | 977 | -20 |  | 214 |
| 995 | -26 |  | 273 | 988 | -7 | 5 | 91 | 976 | -10 | 11 | 145 | 978 | -19 |  | 212 |
| 996 | -25 | 2 | 273 | 988 | -7 | 6 | 94 | 975 | -12 | 10 | 169 | 978 | -20 |  | 212 |
| 996 | -25 | 2 | 157 | 987 | -7 | 8 | 122 | 976 | -13 | 11 | 167 | 978 | -20 |  | 215 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 988 | -16 | 5 | 238 | 996 | -12 | 1 | 143 | 989 | -17 | 8 | 162 | 978 | -21 |  | 215 |
| 989 | -17 | 6 | 249 | 995 | -14 | 5 | 152 | 988 | -17 | 8 | 172 | 977 | -23 | 6 | 221 |
| 990 | -18 | 4 | 252 | 994 | -16 | 5 | 176 | 987 | -17 | 9 | 172 | 975 | -24 |  | 225 |
| 992 | -20 | 0 | 0 | 994 | -16 | 6 | 186 | 986 | -18 | 8 | 194 | 973 | -26 |  | 225 |
| 993 | -19 |  | 255 | 993 | -17 | 7 | 186 | 985 | -20 | 7 | 188 | 972 | -28 |  | 224 |
| 994 | -20 | 4 | 222 | 992 | -17 | 8 | 190 | 983 | -23 |  | 208 | 972 | -30 |  | 235 |
| 994 | -20 |  | 205 | 991 | -17 |  | 186 | 982 | -23 |  | 217 | 972 | -30 |  | 233 |
| 995 | -19 | 6 | 197 | 990 | -16 |  | 179 | 980 | -22 |  | 214 | 972 | -25 |  | 231 |

MONTHLY SUMMARY

[^1]MAR 97

HR PP TT VV DD DAY 1
00 973-23 4225
$\begin{array}{llll}03 & 973 & -23 & 4224\end{array}$

| 06 | 975 | -24 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}09 & 976 & -25 & 3 & 231\end{array}$

| 12 | 978 | -24 | 1 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}15 & 979 & -22 & 1208\end{array}$
$\begin{array}{llll}18 & 980 & -21 & 0\end{array}$
$\begin{array}{lll}21 & 981-19 & 1222\end{array}$ DAY 8
$00 \quad 976$-32 3222
$\begin{array}{lllll}03 & 976 & -34 & 3 & 242\end{array}$
$\begin{array}{llll}06 & 976 & -37 & 4 \\ 260\end{array}$
$\begin{array}{lllll}09 & 976 & -38 & 3 & 263\end{array}$
$\begin{array}{lllll}12 & 977 & -40 & 4 & 250\end{array}$
$\begin{array}{lllll}15 & 978 & -38 & 4 & 256\end{array}$
$\begin{array}{lllll}18 & 980 & -37 & 4 & 260\end{array}$
$\begin{array}{llll}21 & 982-32 & 562\end{array}$ DAY 15
$\begin{array}{llll}00 & 985 & -26 & 5 \\ 153\end{array}$ $\begin{array}{lllll}03 & 985 & -26 & 3 & 138\end{array}$
$\begin{array}{lllll}06 & 985 & -25 & 3 & 146\end{array}$ $\begin{array}{lllll}09 & 985 & -26 & 1 & 167\end{array}$
$\begin{array}{llll}12 & 985 & -29 & 4 \\ 191\end{array}$
$\begin{array}{llll}15 & 984 & -28 & 4 \\ 218\end{array}$
$\begin{array}{llll}18 & 984 & -26 & 4 \\ 228\end{array}$
$\begin{array}{llll}21 & 983-26 & 373\end{array}$ DAY 22
$\begin{array}{llll}00 & 983 & -40 & 4 \\ 288\end{array}$
$\begin{array}{lllll}03 & 984 & -40 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 986 & -38 & 2\end{array} 255$
09 986-33 2256
$\begin{array}{lllll}12 & 987 & -33 & 5 & 263\end{array}$
$\begin{array}{lllll}15 & 987 & -32 & 4 & 253\end{array}$
$\begin{array}{llll}18 & 987 & -30 & 5 \\ 226\end{array}$
$\begin{array}{llll}21 & 987 & -28 & 5229\end{array}$ DAY 29
$00 \quad 954-2611288$
$\begin{array}{lllll}03 & 953 & -27 & 11 & 302\end{array}$
$\begin{array}{llllll}06 & 952 & -25 & 11 & 322\end{array}$
09 953-25 11316
$\begin{array}{lllll}12 & 954 & -29 & 5 & 350\end{array}$
$\begin{array}{lllll}15 & 956 & -35 & 4 & 30\end{array}$
$\begin{array}{lllll}18 & 959 & -35 & 3 & 90\end{array}$
$\begin{array}{llll}21 & 961 & -35 & 1309\end{array}$

DAY 2
983-19 1263
983-23 3183
$\begin{array}{llll}985 & -25 & 4 & 176\end{array}$
$\begin{array}{llll}986 & -25 & 5 & 198\end{array}$
$\begin{array}{llll}986 & -30 & 5 & 193\end{array}$
987-29 $\quad 5190$
$989-32 \quad 5233$
989-29 4233
DAY 9
984-31 2284
$\begin{array}{llll}985 & -30 & 0 & 0\end{array}$
$\begin{array}{llll}986 & -34 & 2 & 314\end{array}$
$\begin{array}{llll}987 & -36 & 1 & 318\end{array}$
$\begin{array}{llll}988 & -37 & 3 & 323\end{array}$
$\begin{array}{llll}989 & -31 & 0 & 0\end{array}$
987-27 2145
$\begin{array}{llll}987 & -30 & 3 & 160\end{array}$
DAY 16
982-30 3328
980-31 2315
$979-34 \quad 4329$
978 -36 3284
978-38 4256
$979-38 \quad 3298$
$979-374288$
980 -34 4309 DAY 23
$\begin{array}{lll}987 & -25 & 514\end{array}$
987-22 5207
$\begin{array}{lll}988 & -20 & 5197\end{array}$
988-20 5204
989-18 3201
$\begin{array}{llll}989 & -17 & 3 & 219\end{array}$
989-16 2229
990-16 1197
DAY 30
962-30 6284
$\begin{array}{llll}961 & -30 & 7 & 262\end{array}$
960-31 8291
$960-324295$
960 -33 4300
961-29 3270
961-29 5252
960-31 5328

PP TT VV DD DAY 3
989-26 2255
989-26 2267
$\begin{array}{llll}987 & -29 & 3 & 80\end{array}$
$\begin{array}{llll}986 & -30 & 2 & 59\end{array}$
$\begin{array}{llll}984 & -31 & 4 & 353\end{array}$
$\begin{array}{lll}983 & -37 & 4 \\ 298\end{array}$
$\begin{array}{lll}983 & -28 & 1309\end{array}$
$\begin{array}{llll}981 & -23 & 3 & 298\end{array}$ DAY 10
$984-28 \quad 5193$
$981-2510179$
979 -28 7181
977-28 8186
$\begin{array}{llll}976 & -32 & 8 & 187\end{array}$
975 -30 7207
975-28 6225
973 -28 5224 DAY 17
$\begin{array}{lll}981 & -34 & 3\end{array}$
$\begin{array}{llll}981 & -35 & 2 & 346\end{array}$
$\begin{array}{llll}982 & -36 & 1 & 357\end{array}$
983-29 1
983-25 0
$\begin{array}{llll}983 & -25 & 2 & 84\end{array}$
$\begin{array}{llll}985 & -25 & 3 & 41\end{array}$
985-25 $\quad 5 \quad 66$ DAY 24
990-15 0
991-17 0
$\begin{array}{llll}991 & -18 & 2 & 8\end{array}$
992-19 2352
992-19 1288
993-19 1298
994-20 2292
995 -21 3288 DAY 31
956-30 11347
$955-254343$
956-29 11222
958-32 12233
$960-2910211$
962-27 16200
965-30 9218
965 -31 8233


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-30.9$ STD DEV $=6.7$ MAX $=-15.0$ at 2210 GMT ON DAY 23 MIN $=-47.6$ AT 1900 GMT ON DAY 19
* THETA (K) * MEAN $=243.79$
* PRESSURE (MB) * MEAN $=977.6$ STD DEV $=10.8$ MAX $=998.8$ at 830 GMT ON DAY 25 MIN $=952.2$ AT 500 GMT ON DAY 29
* WINDS (M/S) * MEAN $=4.0$ STD DEV $=2.5$ RESULTANT $=2.6$ FRON 249. CONSTANCY $=0.65$ MAX $=16.8$ FROM 195. at 1450 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 3 & 2 & 1 & 2 & 1 & 0 & 1 & 4 & 7 & 9 & 18 & 10 & 16 & 15 & 8 & 3\end{array}$
PERCENT

HR PP TT VV DD
$\begin{array}{lllll}00 & 964 & -32 & 9 & 253\end{array}$
$\begin{array}{lllll}03 & 963 & -32 & 10 & 273\end{array}$
$\begin{array}{lllll}06 & 963 & -31 & 9 & 287\end{array}$
$\begin{array}{llllll}09 & 963 & -32 & 10 & 298\end{array}$
$\begin{array}{lllll}12 & 963 & -31 & 11 & 318\end{array}$
$\begin{array}{lllll}15 & 964 & -29 & 9 & 298\end{array}$
$\begin{array}{lllll}18 & 968 & -39 & 6 & 217\end{array}$
$\begin{array}{llll}21 & 970 & -41 & 2 \\ 345\end{array}$ DAY 8
$\begin{array}{lllll}00 & 977 & -22 & 2 & 49\end{array}$
$\begin{array}{lllll}03 & 978 & -21 & 5 & 53\end{array}$
$\begin{array}{lllll}06 & 980 & -22 & 4 & 62\end{array}$
$\begin{array}{lllll}09 & 982 & -22 & 4 & 69\end{array}$
$\begin{array}{lllll}12 & 983 & -23 & 3 & 91\end{array}$
$\begin{array}{lll}15 & 984 & -25\end{array}$
$\begin{array}{lll}18 & 986 & -25\end{array}$
$21 \quad 987-25$
DAY 15
$\begin{array}{lllll}00 & 978 & -43 & 2 & 174\end{array}$
$\begin{array}{llll}03 & 979 & -46 & 3 \\ 214\end{array}$
$\begin{array}{llll}06 & 980 & -49 & 3\end{array} 233$
$\begin{array}{llll}09 & 982 & -50 & 276\end{array}$
$\begin{array}{llll}12 & 982 & -50 & 3 \\ 262\end{array}$
$\begin{array}{llll}15 & 982 & -50 & 3 \\ 270\end{array}$
$\begin{array}{lllll}18 & 982 & -48 & 5 & 266\end{array}$
$\begin{array}{llll}21 & 981 & -43 & 6 \\ 257\end{array}$
DAY 22
$\begin{array}{lllll}00 & 997 & -45 & 4 & 318\end{array}$
$\begin{array}{llll}03 & 997 & -43 & 2 \\ 305\end{array}$
$\begin{array}{llll}06 & 997 & -44 & 2304\end{array}$
$\begin{array}{lllll}09 & 996 & -44 & 4 & 325\end{array}$
$\begin{array}{lllll}12 & 995 & -45 & 3 & 325\end{array}$
$\begin{array}{llll}15 & 995 & -49 & 1342\end{array}$
$\begin{array}{lllll}18 & 994 & -49 & 4 & 298\end{array}$
$\begin{array}{llll}21 & 994 & -49 & 3\end{array}$ DAY 29
$\begin{array}{lllll}00 & 980 & -48 & 3 & 214\end{array}$
$\begin{array}{lllll}03 & 980 & -49 & 2 & 222\end{array}$
$\begin{array}{lllll}06 & 979 & -49 & 3 & 221\end{array}$
$\begin{array}{llll}09 & 979 & -50 & 3\end{array} 217$
$\begin{array}{lllll}12 & 979 & -48 & 3 & 193\end{array}$
$\begin{array}{llll}15 & 978 & -50 & 4 \\ 263\end{array}$
$\begin{array}{lllll}18 & 977 & -48 & 6 & 271\end{array}$
$\begin{array}{lllll}21 & 976 & -47 & 4 & 263\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{llll}971 & -39 & 5 & 309\end{array}$
$972-37 \quad 4219$
$974-424280$
$\begin{array}{llll}974 & -41 & 5 & 276\end{array}$
$975-43 \quad 4271$
$\begin{array}{llll}975 & -43 & 4 & 298\end{array}$
$976-40 \quad 4312$
$976-432322$ DAY 9

987-25
987-28 4 225
987-34 3217
987-40 4218
987-42 3283
$\begin{array}{llll}986 & -43 & 1 & 259\end{array}$
$\begin{array}{llll}985 & -44 & 3 & 233\end{array}$
$984-45 \quad 3212$ DAY 16
$\begin{array}{llll}982 & -37 & 7245\end{array}$
$\begin{array}{llll}981 & -36 & 5 & 274\end{array}$
$980-33 \quad 4 \quad 235$
$\begin{array}{llll}984 & -45 & 10 & 197\end{array}$
$\begin{array}{llll}987 & -46 & 5 & 232\end{array}$
$989-46 \quad 4242$
$990-46 \quad 3260$
$991-471300$

$$
\text { DAY } 23
$$

994-51 2323
992-51 0 0
991-52 2204
989-53 2204
987-54 3211
987-54 3232
987-53 4267
987-50 4 269 DAY 30
976-50 3256
$977-51 \quad 2236$
$978-52 \quad 2252$
$980-51 \quad 3215$
$\begin{array}{llll}982 & -52 & 0 & 0\end{array}$
$\begin{array}{lll}983 & -52 \quad 2309\end{array}$
$984-52 \quad 2256$
984-51 0 0

DAY 3
$\begin{array}{llll}977 & -39 & 1 & 6\end{array}$
$\begin{array}{llll}978 & -38 & 2 & 14\end{array}$
979-35 $\quad 4 \quad 354$
$\begin{array}{llll}981 & -36 & 3 & 21\end{array}$
$\begin{array}{llll}983 & -38 & 5 & 46\end{array}$
$\begin{array}{llll}985 & -41 & 2 & 76\end{array}$
$\begin{array}{llll}985 & -41 & 3 & 46\end{array}$
987-42 256
DAY 10
$\begin{array}{llll}984 & -44 & 3 & 231\end{array}$
983-45 2229
982-45 2245
982-45 2231
$\begin{array}{llll}981 & -44 & 3 & 240\end{array}$
980-42 3239
$979-43 \quad 3 \quad 238$
$978-413225$
DAY 17
$993-43 \quad 3270$
$\begin{array}{llll}994 & -44 & 1 & 304\end{array}$
$\begin{array}{llll}995 & -41 & 4 & 273\end{array}$
$997 \quad-39 \quad 3298$
998-39 4301
$1000-37 \quad 6307$
1001 -39 2298
1004 -39 3300 DAY 24
988-49 6287
988-49 3300
988-50 3295
989-52 2323
$\begin{array}{llll}990 & -53 & 0 & 0\end{array}$
$\begin{array}{llll}989 & -53 & 0 & 0\end{array}$
$\begin{array}{llll}988 & -53 & 310\end{array}$
$\begin{array}{llll}986 & -41 & 5 & 201\end{array}$

PP TT VV DD DAY 4
987-44 2300
987-46 2356
987-48 5333
$986-48 \quad 1263$
985-49 4300
$\begin{array}{llll}983 & -47 & 5337\end{array}$
$\begin{array}{llll}981 & -47 & 4 & 316\end{array}$
$\begin{array}{llll}979 & -42 & 3 & 322\end{array}$ DAY 11
977-42 4232
$\begin{array}{llll}976 & -41 & 3 & 271\end{array}$
975-40 2276
$975-43 \quad 3264$
$\begin{array}{llll}975 & -41 & 2 & 271\end{array}$
$\begin{array}{llll}975 & -39 & 2 & 287\end{array}$
$\begin{array}{lll}974 & -38 & 2 \\ 259\end{array}$
$974-39 \quad 3269$ DAY 18
1005-41 1301
1006-40 1311
1007-41 2266
$\begin{array}{lll}1008 & -43 & 2300\end{array}$
$1009-44 \quad 3291$
$\begin{array}{llll}1010 & -45 & 1 & 193\end{array}$
$\begin{array}{llll}1010 & -45 & 2 & 297\end{array}$
1011 -45 3262

## DAY 25

984-38 10208
979-38 12211
$\begin{array}{lllll}978 & -36 & 13 & 205\end{array}$
$\begin{array}{llll}977 & -36 & 15 & 217\end{array}$
$\begin{array}{llll}977 & -38 & 12 & 250\end{array}$
$\begin{array}{llll}977 & -38 & 7 & 283\end{array}$
$\begin{array}{llll}977 & -43 & 7319\end{array}$
$\begin{array}{llll}976 & -45 & 9 & 349\end{array}$

PP TT VV DD DAY 5
977-41 2278
$973-40 \quad 7253$
$\begin{array}{llll}968 & -36 & 981\end{array}$
961-27 4266
956-20 1278
$\begin{array}{llll}956 & -29 & 9 & 110\end{array}$
962-35 11135
$\begin{array}{lllll}967 & -33 & 9 & 143\end{array}$
DAY 12
$\begin{array}{llll}973 & -39 & 3 & 298\end{array}$
$973-40 \quad 3304$
972-39 4285
972-42 4249
$\begin{array}{llll}972 & -45 & 247\end{array}$
$\begin{array}{llll}972 & -46 & 281\end{array}$
$\begin{array}{llll}972 & -47 & 243\end{array}$
$973-491229$ DAY 19
1011-45 0 0
$1011-45 \quad 2218$
1010-45 1307
1009-45 2294
1009-43 2262
1009-41 0
1008-40-5 288
1007-37 2281

$$
\text { DAY } 26
$$

$$
\begin{array}{llll}
976 & -44 & 8 & 1
\end{array}
$$

$$
\begin{array}{llll}
976 & -43 & 6 & 14
\end{array}
$$

$\begin{array}{llll}977 & -43 & 4 & 11\end{array}$
$\begin{array}{llll}979 & -43 & 3 & 20\end{array}$
$\begin{array}{llll}980 & -43 & 2 & 53\end{array}$
980-40 0 0
$\begin{array}{llll}979 & -38 & 3 & 202\end{array}$
$\begin{array}{llll}977 & -37 & 7 & 204\end{array}$

PP TTVV DD DAY 6
971-29 6142
$\begin{array}{llll}972 & -31 & 3 & 152\end{array}$
$\begin{array}{llll}973 & -33 & 3 & 145\end{array}$
$\begin{array}{llll}974 & -38 & 1 & 122\end{array}$
$975-40 \quad 4200$
975-41 3236
975-41 4291
974 -38 3281 DAY 13
973-50 3217
974-51 4201
$974-514207$
$\begin{array}{llll}974 & -52 & 5 & 204\end{array}$
$\begin{array}{llll}975 & -51 & 3 & 193\end{array}$
$975-496186$
$976-46 \quad 4195$
976-48 2246
DAY 20
1006-38 0
1002-40 3290
1002-41 2219
1001-44 0 0
1001-45 2181
$1000-46 \quad 2205$
1000-46 1259
1000-46 2264
DAY 27
$\begin{array}{llll}975 & -37 & 8 & 207\end{array}$
$\begin{array}{llll}972 & -36 & 9 & 210\end{array}$
$969-3411212$
966-32 10222
966-32 10240
$\begin{array}{llll}967 & -31 & 7 & 218\end{array}$
$\begin{array}{llll}969 & -30 & 5 & 238\end{array}$
972 -32 3262

PP TTVV DD DAY 7
973-39 4300
$\begin{array}{llll}971 & -37 & 4 & 321\end{array}$
$\begin{array}{llll}970 & -38 & 5 & 335\end{array}$
$\begin{array}{llll}971 & -37 & 4 & 10\end{array}$
$\begin{array}{llll}971 & -29 & 7 & 20\end{array}$
$\begin{array}{llll}973 & -28 & 6 & 27\end{array}$
$\begin{array}{llll}975 & -26 & 4 & 79\end{array}$
$\begin{array}{llll}975 & -24 & 4 & 79\end{array}$
DAY 14
975-46 1262
$974-45 \quad 2325$
$\begin{array}{lll}973 & -48 & 269\end{array}$
$\begin{array}{llll}973 & -48 & 2 & 233\end{array}$
$\begin{array}{llll}974 & -43 & 2193\end{array}$

| 974 | -42 | 4 |
| :--- | :--- | :--- |

$\begin{array}{lll}974 & -42 & 233\end{array}$
$\begin{array}{lll}976 & -41 & 214\end{array}$ DAY 21
$\begin{array}{llll}999 & -45 & 3 & 260\end{array}$
999-46 0
998-46 2297
$\begin{array}{llll}998 & -47 & 0 & 0\end{array}$
$\begin{array}{llll}998 & -48 & 3 & 298\end{array}$
998-50 1298
998-50 4314
997-48 2311
DAY 28
$\begin{array}{llll}975 & -35 & 0 & 0\end{array}$
$\begin{array}{llll}977 & -35 & 2 & 247\end{array}$
$\begin{array}{llll}979 & -32 & 3 & 157\end{array}$
$\begin{array}{llll}981 & -31 & 7174\end{array}$
$\begin{array}{llll}982 & -38 & 6 & 194\end{array}$
$\begin{array}{llll}981 & -42 & 5 & 193\end{array}$ $981-45 \quad 4208$

* TEMPERATURE (C) * MEAN $=-41.5$ STD DEV $=7.3$ MAX $=-19.1$ AT 1110 GMT ON DAY 5 MIN $=-54.6$ AT 1340 GMt ON DAY 23
* THETA (K) * MEAN $=232.83$
* PRESSURE (MB) * MEAN $=982.6$ STD DEV $=11.7$ MAX $=1011.2$ at 2240 GMT ON DAY 18 MIN $=955.0$ at 1400 GMt ON DAY 5
* WINDS (M/S) * MEAN $=3.7$ STD DEV $=2.7$ RESULTANT $=2.0$ FROM 256. CONSTANCY $=0.54$ MAX $=15.0$ FROM 195. AT 450 GMT DAY 25
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $1.7 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllllllllllllll}\text { PERCENT } & 3 & 3 & 3 & 1 & 1 & 1 & 2 & 1 & 2 & 13 & 15 & 9 & 18 & 15 & 11 & 2\end{array}$

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 984 & -49 & 3 & 221\end{array}$
$\begin{array}{lllll}03 & 983 & -45 & 4 & 217\end{array}$
$\begin{array}{lllll}06 & 981 & -38 & 6 & 228\end{array}$
$\begin{array}{lllll}09 & 979 & -37 & 9 & 194\end{array}$
$\begin{array}{lllll}12 & 975 & -37 & 11 & 186\end{array}$
$\begin{array}{lllll}15 & 972 & -44 & 14 & 205\end{array}$
$\begin{array}{lllll}18 & 969 & -41 & 15 & 204\end{array}$
$\begin{array}{lllll}21 & 964 & -37 & 12 & 218\end{array}$ DAY 8
$\begin{array}{lllll}00 & 972 & -28 & 9 & 208\end{array}$
$03 \quad 973-30 \quad 9238$
$06 \quad 974-31 \quad 9208$
$\begin{array}{lllll}09 & 976 & -34 & 5 & 245\end{array}$

| 12 | 976 | -31 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}15 & 976 & -31 & 7 \\ 245\end{array}$
$\begin{array}{lllll}18 & 976 & -31 & 3 & 262\end{array}$
$\begin{array}{lllll}21 & 975 & -35 & 4 & 263\end{array}$ DAY 15

| 00 | 983 | -49 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 980 & -48 & 8 & 208\end{array}$
$\begin{array}{lllll}06 & 975 & -45 & 13 & 215\end{array}$
$\begin{array}{lllll}09 & 970 & -39 & 15 & 212\end{array}$
$\begin{array}{lllll}12 & 964 & -33 & 16 & 207\end{array}$
$\begin{array}{lllll}15 & 960 & -28 & 13 & 187\end{array}$
$\begin{array}{lllll}18 & 958 & -29 & 12 & 181\end{array}$
$\begin{array}{lllll}21 & 956 & -27 & 11 & 179\end{array}$
DAY 22
$00 \quad 977$-46
$\begin{array}{llll}03 & 976 & -47\end{array}$
$\begin{array}{lll}06 & 974 & -46\end{array}$
$09 \quad 973-46$
$\begin{array}{lll}12 & 971 & -48\end{array}$
$\begin{array}{lll}15 & 970 & -49\end{array}$
$\begin{array}{lll}18 & 968 & -49\end{array}$
$21 \quad 967$-45
DAY 29
$\begin{array}{lllll}00 & 954 & -22 & 9 & 298\end{array}$
$\begin{array}{lllll}03 & 952 & -23 & 5 & 266\end{array}$
$\begin{array}{llll}06 & 951 & -26 & 5 \\ 273\end{array}$
$\begin{array}{llll}09 & 951 & -17 & 7 \\ 257\end{array}$
$\begin{array}{llll}12 & 951 & -20 & 9 \\ 274\end{array}$

| 15 | 952 | -20 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}18 & 953 & -25 & 7 & 276\end{array}$
$21 \quad 957$-31

PP TT VV DD DAY 2
$\begin{array}{llll}959 & -32 & 16 & 211\end{array}$
$\begin{array}{llll}956 & -30 & 14 & 208\end{array}$
$\begin{array}{lllll}954 & -27 & 11 & 193\end{array}$
952-27 9201
$\begin{array}{llll}952 & -26 & 7 & 198\end{array}$
$\begin{array}{llll}953 & -25 & 6 & 167\end{array}$
$\begin{array}{llll}954 & -27 & 6 & 176\end{array}$
$955-25 \quad 6177$
DAY 9
$\begin{array}{llll}975 & -38 & 3 & 270\end{array}$
974-39
973-40
972-41
971-44
970-46
970-45
970-47
DAY 16
$\begin{array}{llll}953 & -24 & 11 & 180\end{array}$
$\begin{array}{llll}950 & -17 & 8 & 167\end{array}$
948-12 10162
$\begin{array}{llll}947 & -9 & 12 & 167\end{array}$
$\begin{array}{llll}947 & -12 & 6 & 143\end{array}$
950-18 $10 \quad 90$
$953-20 \quad 9141$
$\begin{array}{llll}955 & -16 & 8 & 131\end{array}$
DAY 23
965-40
963-42
960-47
959-39
958-31
957-27 6277
957-26
958-28
DAY 30
960-34
963-33
965-30
966-30
968-32
969-33
970-31
971-30

PP TT VV DD DAY 3
$\begin{array}{llll}956-26 & 9 & 193\end{array}$
$\begin{array}{llll}956 & -25 & 12 & 183\end{array}$
$\begin{array}{llll}955 & -25 & 11 & 204\end{array}$
954-28 16218
951-27 $15 \quad 217$
949-27 $10 \quad 218$
$\begin{array}{llll}948 & -25 & 10 & 197\end{array}$
948-24 7205
DAY 10
970-49
970-49
970-49
970-46
$969-45 \quad 5 \quad 250$
$968-48 \quad 5246$
969-49 6224
$969-49 \quad 4219$ DAY 17
959-15 $8 \quad 138$
962-15 9131
$\begin{array}{llll}967 & -18 & 15 & 97\end{array}$
$974-22 \quad 9 \quad 101$
$\begin{array}{llll}979 & -25 & 5 & 121\end{array}$
$980-26 \quad 2166$
978-27 8264
$974-219245$
DAY 24
961-28
$\begin{array}{llll}964 & -30 & 7 & 148\end{array}$
$\begin{array}{llll}968 & -31 & 7 & 146\end{array}$
970-31 6148
971-32 5162
$972-32 \quad 4159$
973-36
974-42
DAY 31
972-30
973-32
973-31
974-28
974-26
974-24
974-23
975-20

$\begin{array}{lllllll}950 & -24 & 5 & 165 & 961 & -37\end{array}$
$950-25 \quad 3212$
950-25
950-27
951-28
953-29
956-32
959-37
DAY 11
970-50 5228
971-50 3229
$\begin{array}{llll}972 & -52 & 3 & 238\end{array}$
$\begin{array}{llll}972 & -51 & 325\end{array}$
973-52 0
973-55 0
973-55 0
$\begin{array}{llll}974 & -57 & 2 & 181\end{array}$
DAY 18
969-18 $10 \quad 238$
965-20 8212
962-20 9225
960-19 324
958-25
958-22
958-21
959-22
DAY 25
975-44
976-46
978-47
978-46
978-46
977-44
$\begin{array}{llll}975 & -42 & 4 & 264\end{array}$
$\begin{array}{llll}973 & -39 & 3 & 281\end{array}$

962-38
962-40
960-36
961-35
963-37
966-41
967-41
DAY 12
975-57 0 0
975-58 1239
$\begin{array}{llll}976 & -58 & 2 & 291\end{array}$
$\begin{array}{llll}976 & -57 & 3222\end{array}$
977-58 6207
977-59 5207
$\begin{array}{llll}978 & -57 & 5 & 214\end{array}$
978 -58 5228
DAY 19
961-23
962-23
964-24
965-26
967-24
969-22
970-22
972-21

## DAY 26

971-34 6292
$\begin{array}{llll}971 & -34 & 4 & 291\end{array}$
$\begin{array}{llll}972 & -32 & 4 & 276\end{array}$
$\begin{array}{llll}973 & -31 & 5 & 284\end{array}$
$\begin{array}{llll}974 & -33 & 7 & 262\end{array}$
977-39 4300
977-38 5300
$978-304295$

PP TTVV DD DAY 6
967-41
967-41
966-41
967-43
967-43
967-44
967-45
967-46
DAY 13

| 979 | -58 | 5 |
| :--- | :--- | :--- |

979-57 4208
979-57-5 211
980-56 6222
980-53 6212
981-50 6221
981-45 5222
$981-42 \quad 5225$
DAY 20
973-21
975-22
976-22
978-23
979-31
980-31
981-28
981-36
DAY 27
978-32 4300
$\begin{array}{llll}980 & -36 & 2304\end{array}$
982-37 00
984-40 2228
$\begin{array}{llll}985 & -40 & 4 & 253\end{array}$
986-41 3274
$\begin{array}{llll}985 & -41 & 3 & 266\end{array}$
$982-37 \quad 6 \quad 280$

PP TT VV DD
DAY 7
967-48
967-44
966-40
966-32
967-29
968-30
970-36
971-29
DAY 14
982-43 5204
$\begin{array}{llll}983 & -43 & 3 & 255\end{array}$
983-52 2236
984-53 3200
985-51 2181
984-49 2219
984-51 4208
984-51 5202
DAY 21
983-38
984-40
985-37
985-38
983-42
982-43
980-44
979-45
DAY 28
980-33 5266
$\begin{array}{llll}978 & -34 & 6 & 271\end{array}$
975-35 6276
$\begin{array}{llll}972 & -35 & 6 & 288\end{array}$
$969-35 \quad 7 \quad 300$
$\begin{array}{llll}965 & -35 & 7 & 304\end{array}$
$\begin{array}{llll}961 & -37 & 3 & 309\end{array}$
957-29 7285

* TEMPERATURE (C) * MEAN $=-35.6$ STD DEV $=11.0$ MAX $=-9.4$ AT 900 GMT ON DAY 16 MIN $=-58.9$ AT 1400 GMT ON DAY 12
* THETA (K) * MEAN $=239.76$
* PRESSURE (MB) * MEAN $=968.8$ STD DEV $=10.0$ MAX $=986.0$ AT 1350 GMT ON DAY 27 MIN $=946.6$ AT 1040 GMT ON DAY 16
* WINDS (M/S) * MEAN $=6.5$ STD DEV $=3.7$ RESULTANT $=4.6$ FROM 214. CONSTANCY $=0.71$ MAX $=18.5$ FROM 211 . AT 2320 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $44.4 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 2 & 1 & 5 & 8 & 8 & 23 & 18 & 11 & 15 & 9 & 2 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-33.3$ STD DEV $=9.1$ MAX $=-13.2$ AT 1340 GMT ON DAY 13 MIN $=-54.8$ AT 2200 GMT ON DAY 30
* THETA (K) * MEAN = 241.07
* PRESSURE (MB) * MEAN $=983.7$ STD DEV $=13.6$ MAX $=1006.3$ AT 2210 GMT ON DAY 27 MIN $=956.9$ AT 1520 GMT ON DAY 7 * WINDS (M/S) * MEAN $=7.5$ STD DEV $=3.7$ RESULTANT $=5.0$ FROM 233. CONSTANCY $=0.66$ MAX $=16.8$ FROM 181 . AT 1440 GMT DAY 18 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \% \quad$ WINDS: $74.6 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 22 & 17 & 10 & 5 & 9 & 29 & 3 & 0\end{array}$

JUL 97
HR PP TT WV DD

|  | DAY |  |
| :--- | ---: | ---: |
| 00 | 986 | -54 |
| 03 | 984 | -52 |
| 06 | 983 | -53 |
| 09 | 982 | -52 |
| 12 | 981 | -53 |
| 15 | 981 | -53 |
| 18 | 981 | -53 |
| 21 | 981 | -53 |
|  |  | DAY |
| 00 | 964 | -26 |

03 965-26
$\begin{array}{ll}06 & 967-28\end{array}$
09 969-27
$12 \quad 970-30$
$\begin{array}{lll}15 & 971 & -29\end{array}$
$\begin{array}{ll}18 & 971-28\end{array}$
21 972-29
DAY 15
$00 \quad 967-37$
$\begin{array}{llll}03 & 967 & -34\end{array}$
06 968-32
09 969-30
$12 \quad 970-30$
$\begin{array}{lll}15 & 970 & -31\end{array}$
18 971-35
21 971-36
DAY 22
$00-983$-50
03 981-51
06 980-52
09 979-54
$12 \quad 978$-53
$\begin{array}{ll}15 & 977-50\end{array}$
$18 \quad 976-50$
$21 \quad 974$-51
DAY 29
$00 \quad 982-56$
$\begin{array}{lll}03 & 981 & -56\end{array}$
$\begin{array}{lll}06 & 981 & -58\end{array}$
$09 \quad 982-58$
$\begin{array}{ll}12-583 & -56\end{array}$
15 982-55
18 979-51
$21 \quad 975-46$



## DAY 5

975-25
975-31
978-37
979-33
978-33
978-37
977-35
977-32
DAY 12
972-39
977-41
979-41
982-41
984-38
984-40
984-40
DAY 19
980-42
981-44
982-47
983-48
983-48
983-49
983-48
982-46
DAY 26
973-39
974-42
975-42
976-41
977-41
977-40
976-40
977-45
PP TT VV DD

DAY 6
976-31
977-30
977-30
976-31
974-30
972-32
971-33
$970-33$
DAY 13
984-41
982-39
981-38
$979-31$
978-30
976-33
$\begin{array}{llll}973 & -36 & 965 & -38 \\ 971 & -37\end{array}$
966-39
DAY 21
986-53
985-53
986-52
986-51
986-49
986-49
985-47
985-48
DAY 28
983-45
982-48
983-49
984-50
984-52
984-52
984-50
983-55

* temperature ( $C$ ) * mean $=-40.6$ Std dev $=9.2$ max $=-15.9$ at 1710 GMT ON day 3 MIN $=-59.6$ At 1310 GMt ON DAY 31
* THETA (K) * MEAN $=234.17$
* PRESSURE (MB) * MEAN $=975.7$ STD DEV $=7.9$ MAX $=989.4$ AT 630 GMT ON DAY 24 MIN $=951.4$ AT 1700 GMT ON DAY 3
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . COWSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $95.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W UNW NW NNW
percent


* TEMPERATURE (C) * MEAN $=-45.5$ STD DEV $=6.7$ MAX $=-21.0$ AT 2300 GMT ON DAY 8 MIN $=-60.2$ AT 840 GMT ON DAY
* THETA (K) * MEAN $=229.52$
* PRESSURE (MB) * MEAN $=973.4$ STD DEV $=10.1$ MAX $=988.8$ AT 1530 GMT ON DAY 28 MIN $=929.0$ AT 2220 GMT ON DAY 8
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.4 \%$ WINDS: 100.0 \%

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-38.0$ Std dev $=10.8$ max $=-16.2$ at 300 GMT ON day 26 min $=-63.6$ at 1640 gmt on day 16
* theta (K) * MEAN $=236.76$
* PRESSURE (MB) * MEAN $=977.1$ STD DEV $=8.9$ MAX $=1001.4$ at 1300 GMT ON DAY 12 MIN $=955.2$ AT 330 GMT ON DAY 10
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ fROM $\quad 0$. CONSTANCY $=0.00 \mathrm{mAX}=$ =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $\quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W WNW NW NNW


* temperature ( $C$ ) * MEAN $=-23.2$ Std dev $=6.2$ maX $=-9.4$ at 1130 GMT ON DAY 23 MIN $=-38.4$ AT 1420 GMT ON dAY 19
* theta (K) * MEAN $=251.79$
* PRESSURE (MB) * MEAN $=974.3$ STD DEV $=9.1$ MAX $=992.2$ at 1950 GMT ON DAY 7 MIN $=947.8$ at 1020 GMT ON DAY 23
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ fROM 0 . CONSTANCY $=0.00 \mathrm{mAX}=* * * * *$ FROM***** at 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14 -16 16 -18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{lllllllllllllrrrr}0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | Tt |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 970 | -23 |  |  | 966 | -19 |  |  | 963 | -25 |  |  | 959 | -21 |  |  | 962 | -14 |  |  | 978 | -13 |  |  | 977 | -16 |  |  |
| 03 | 970 | -23 |  |  | 965 | -20 |  |  | 962 | -24 |  |  | 956 | -15 |  |  | 963 | -14 |  |  | 978 | -16 |  |  | 977 | -17 |  |  |
| 06 | 970 | -24 |  |  | 965 | -21 |  |  | 962 | -25 |  |  | 956 | -11 |  |  | 965 | -14 |  |  | 978 | -18 |  |  | 979 | -18 |  |  |
| 09 | 969 | -24 |  |  | 965 | -21 |  |  | 962 | -27 |  |  | 958 | -10 |  |  | 967 | -16 |  |  | 977 | -19 |  |  | 979 | -18 |  |  |
| 12 | 968 | -26 |  |  | 965 | -23 |  |  | 962 | -29 |  |  | 959 | -12 |  |  |  | -19 |  |  | 977 | -21 |  |  | 978 | -19 |  |  |
| 15 | 966 | -23 |  |  | 965 | -25 |  |  | 961 | -28 |  |  | 960 | -15 |  |  |  | -19 |  |  | 977 | -21 |  |  | 978 | -18 |  |  |
| 18 | 966 | -21 |  |  | 964 | -27 |  |  | 961 | -25 |  |  | 961 | -15 |  |  |  | -19 |  |  | 977 | -20 |  |  | 978 | -17 |  |  |
| 21 | 966 | -18 |  |  | 964 | -26 |  |  | 961 | -23 |  |  | 961 | -14 |  |  | 977 | -17 |  |  | 977 | -17 |  |  | 976 | -14 | 1 | 74 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | day | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 974 | -13 | 2 | 82 | 988 | -11 |  |  | 989 | -12 |  |  | 988 | -13 | 5 | 144 | 989 | -16 |  |  | 987 | -15 | 2 | 135 | 983 | -17 | 3 | 113 |
| 03 | 973 | -12 | 4 | 142 | 989 | -12 |  |  | 989 | -12 |  |  | 988 | -13 | 5 | 126 | 989 | -16 |  |  | 986 | -13 |  |  | 982 | -16 | 2 | 117 |
| 06 | 971 | -12 |  |  | 989 | -14 |  |  | 990 | -13 |  |  | 987 | -14 | 4 | 133 | 989 | -17 |  |  | 985 | -15 |  |  | 982 | -15 |  |  |
| 09 | 971 | -14 |  |  | 989 | -14 |  |  | 990 | -15 |  |  | 987 | -16 |  |  | 989 | -20 |  |  | 984 | -17 |  |  | 981 | -15 |  |  |
| 12 | 973 | -17 |  |  | 988 | -16 |  |  | 990 | -16 |  |  | 988 | -18 |  |  | 989 | -22 |  |  | 983 | -18 |  |  | 979 | -17 |  |  |
| 15 | 978 | -18 |  |  | 989 | -16 |  |  | 990 | -17 |  |  | 988 | -19 |  |  | 989 | -22 |  |  | 983 | -21 |  |  | 978 | -17 |  |  |
| 18 | 982 | -16 |  |  | 989 | -15 |  |  | 989 | -17 |  |  | 988 | -18 |  |  | 988 | -20 |  |  | 983 | -18 |  |  | 977 | -15 |  |  |
| 21 | 986 | -13 |  |  | 989 | -13 | 4 | 181 | 988 | -15 | 4 | 130 | 989 | -16 |  |  | 988 | -17 | 3 | 131 | 983 | -18 |  |  | 976 | -10 |  |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 975 | -9 |  |  | 982 | -12 |  |  | 979 | -12 |  |  | 973 | -11 | 2 | 137 | 977 | -8 | 3 | 131 | 986 | -6 | 3 | 116 | 989 | -6 | 2 | 141 |
| 03 | 974 | -9 |  |  | 983 | -11 |  |  | 978 | -11 |  |  | 973 | -10 | 2 | 130 | 977 | -7 | 3 | 140 | 987 | -6 | 2 | 123 | 989 | -6 | 3 | 135 |
| 06 | 975 | -11 |  |  | 982 | -11 |  |  | 977 | -11 |  |  | 973 | -11 | 2 | 135 | 976 | -6 | 2 | 138 | 987 | -6 | 2 | 119 | 990 | -7 | 2 | 133 |
| 09 | 976 | -14 |  |  | 983 | -15 |  |  | 976 | -11 |  |  | 974 | -11 | 1 | 138 | 977 | -6 | 2 | 138 | 989 | -8 | 2 | 128 | 991 | -9 | 2 | 135 |
| 12 | 977 | -16 |  |  | 983 | -16 |  |  | 975 | -12 |  |  | 974 | -14 | 1 | 138 | 977 | -8 | 2 | 127 | 989 | -10 | 2 | 135 | 993 | -11 |  |  |
| 15 | 978 | -16 |  |  | 983 | -15 |  |  | 974 | -13 |  |  | 974 | -11 | 2 | 127 | 980 | -9 | 2 | 109 | 990 | -10 | 2 | 152 | 994 | -12 |  |  |
| 18 | 979 | -15 |  |  | 982 | -15 |  |  | 973 | -13 | 3 | 135 | 975 | -12 | 1 | 138 | 984 | -8 | 1 | 112 | 990 | -9 | 2 | 154 | 996 | -11 |  |  |
| 21 | 980 | -13 |  |  | 981 | -13 |  |  | 973 | -12 | 2 | 133 | 976 | -10 | 2 | 134 | 985 | -8 | 2 | 135 | 989 | -8 | 2 | 150 | 998 | -9 |  |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  |  | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 1000 | -8 | 0 | 0 | 1007 | 1 | 0 | 0 | 1009 | 0 | 0 | 0 | 1006 | -5 | 1 | 99 | 1003 | -2 | 0 | 0 | 995 | -6 | 0 | 0 | 985 | -9 | 1 | 133 |
| 03 | 1001 | -9 | 1 | 351 | 1007 | -2 | 0 | 0 | 1008 | -4 | 0 | 0 | 1006 | -4 | 0 | 0 | 1002 | -1 | 0 | 0 | 993 | -6 | 0 | 0 | 985 | -8 | 0 | 0 |
| 06 | 1002 | -9 | 0 | 0 | 1007 | -3 | 0 | 0 | 1008 | -3 | 0 | 0 | 1006 | -5 | 0 | 0 | 1001 | -2 | 0 | 0 | 991 | -8 | 1 | 263 | 985 | -9 | 1 | 85 |
| 09 | 1004 | -8 | 0 | 0 | 1007 | -3 | 0 | 0 | 1008 | -5 | 0 | 0 | 1005 | -5 | 0 | 0 | 1000 | -4 | 0 | 0 | 990 | -11 |  | 249 | 985 | -11 | 1 | 79 |
| 12 | 1004 | -8 | 0 | 0 | 1008 | -4 | 0 | 0 | 1008 | -6 | 0 | 0 | 1005 | -5 | 0 | 0 | 1000 | -5 | 0 | 0 | 988 | -11 | 0 | 0 | 986 | -11 | 1 | 86 |
| 15 | 1005 | -7 | 0 | 0 | 1008 | -5 | 0 | 0 | 1007 | -7 | 0 | 0 | 1004 | -5 | 0 | 0 | 999 | -6 | 0 | 0 | 987 | -12 | 0 | 0 | 987 | -11 | 1 | 113 |
| 18 | 1006 | -3 | 0 | 0 | 1008 | -2 | 0 | 0 | 1007 | -7 | 0 | 0 | 1004 | -4 | 0 | 0 | 998 | -4 | 0 | 0 | 986 | -11 | 0 | 0 | 988 | -10 | 1 | 112 |
| 21 | 1007 | -1 | 0 | 0 | 1009 | 0 | 0 | 0 | 1007 | -6 | 0 | 0 | 1004 | -3 | 0 | 0 | 997 | -6 | 0 | 0 | 986 | -9 | 0 | 0 | 988 | -10 | 1 | 117 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 989 | -11 | 1 | 144 | 994 | -9 | 1 | 85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 990 | -11 | 1 | 138 | 994 | -10 | 2 | 114 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 990 | -10 | 0 | 0 | 994 | -10 | 1 | 128 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 991 | -13 | 0 | 0 | 994 | -8 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 991 | -16 | 0 | 0 | 994 | -7 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 992 | -13 | 0 | 0 | 994 | -8 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 992 | -11 | 0 | 0 | 994 | -8 | 1 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 993 | -11 | 0 |  | 993 |  |  | 48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE ( $C$ ) * MEAN $=-12.7$ STD DEV $=6.0$ mAX $=0.5$ AT 0 GMT ON DAY 23 MIN $=-30.0$ at 1230 GMt ON DAY 3
* THETA (K) * MEAN $=261.73$
* PRESSURE (MB) * MEAN $=984.3$ STD DEV $=13.0$ MAX $=1008.8$ AT 2240 GMT ON DAY 23 MIN $=955.9$ AT 330 GMT ON DAY 4
* $\operatorname{WINDS}(\mathrm{M} / \mathrm{S}) *$ MEAN $=1.0 \mathrm{STD}$ DEV $=1.2$ RESULTANT $=0.9$ FROM 129. CONSTANCY $=0.86 \mathrm{MAX}=6.1$ FROM 208. AT 130 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: $1.2 \%$ WINDS: 52.5 \%

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 Wind direction: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 2 & 0 & 3 & 2 & 10 & 18 & 55 & 5 & 2 & 0 & 0 & 2 & 2 & 0 & 0 & 0\end{array}$

DEC 97

| HR | PP | Tt |  | DD | PP | Tt |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 992 | -7 | 2 | 57 | 991 | -10 | 1 | 40 | 993 | -7 | 0 | 0 | 997 | -8 | 0 | 0 | 1003 | -8 | 1 | 280 | 999 | -11 | 0 | 0 | 997 | -6 | 0 | 0 |
| 03 | 992 | -8 | 2 | 38 | 991 | -9 | 0 | 0 | 993 | -6 | 0 | 0 | 997 | -8 | 0 | 0 | 1003 | -11 | 0 | 0 | 998 | -10 | 0 | 0 | 998 | -7 | 0 | 0 |
| 06 | 992 | -8 | 1 | 58 | 991 | -10 | 0 | 0 | 993 | -7 | 0 | 0 | 998 | -10 | 0 | 0 | 1003 | -13 | 0 | 0 | 997 | -12 | 0 | 0 | 999 | -5 | 0 | 0 |
| 09 | 992 | -10 | 1 | 65 | 992 | -11 | 1 | 76 | 993 | -13 | 0 | 0 | 1000 | -13 | 0 | 0 | 1002 | -17 | 0 | 0 | 997 | -12 | 0 | 0 | 1000 | -7 | 0 | 0 |
| 12 | 991 | -10 | 1 | 60 | 992 | -12 | 0 | 0 | 994 | -13 | 0 | 0 | 1002 | -12 | 0 | 0 | 1002 | -19 | 0 | 0 | 996 | -12 | 0 | 0 | 1000 | -7 | 0 | 0 |
| 15 | 991 | -11 | 1 | 71 | 993 | -13 | 0 | 0 | 994 | -11 | 0 | 0 | 1003 | -12 | 0 | 0 | 1001 | -13 | 0 | 0 | 995 | -11 | 1 | 78 | 1001 | -9 | 0 | 0 |
| 18 | 991 | -10 | 0 | 0 | 993 | -11 | 0 | 0 | 995 | -10 | 0 | 0 | 1003 | -9 | 0 | 0 | 1000 | -15 | 0 | 0 | 995 | -9 | 0 | 0 | 1002 | -6 | 0 | 0 |
| 21 | 991 | -10 | 1 | 72 | 993 | -8 | 0 | 0 | 995 | -10 | 0 | 0 | 1003 | -6 | 1 | 346 | 999 | -14 | 0 | 0 | 996 | -6 | 0 | 0 | 1002 | -7 | 0 | 0 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | day | 14 |  |
| 00 | 1002 | -5 | 0 | 0 | 999 | -12 | 0 | 0 | 993 | -13 | 0 | 0 | 990 | -14 | 1 | 128 | 983 | -9 | 1 | 102 | 979 | -4 | 0 | 0 | 982 | -5 | 0 | 0 |
| 03 | 1002 | -7 | 0 | 0 | 998 | -11 | 0 | 0 | 992 | -12 | 0 | 0 | 989 | -13 | 1 | 127 | 982 | -8 | 1 | 88 | 979 | -3 | 0 | 0 | 982 | -3 | 0 | 0 |
| 06 | 1002 | -8 | 0 | 0 | 997 | -11 | 0 | 0 | 992 | -13 | 0 | 0 | 988 | -13 | 2 | 140 | 982 | -8 | 1 | 89 | 978 | -5 | 0 | 0 | 983 | -5 | 0 | 0 |
| 09 | 1002 | -9 | 0 | 0 | 996 | -12 | 0 | 0 | 991 | -16 | 0 | 0 | 987 | -13 | 1 | 134 | 981 | -7 | 0 | 0 | 979 | -8 | 0 | 0 | 984 | -6 | 0 | 0 |
| 12 | 1002 | -11 | 0 | 0 | 996 | -14 | 1 | 137 | 991 | -18 | 0 | 0 | 986 | -13 | 2 | 121 | 981 | -8 | 1 | 109 | 979 | -9 | 0 | 0 | 986 | -7 | 0 | 0 |
| 15 | 1001 | -11 | 0 | 0 | 995 | -17 | 0 | 0 | 991 | -18 | 0 | 0 | 985 | -13 | 2 | 126 | 981 | -8 | 0 | 0 | 980 | -10 | 0 | 0 | 987 | -7 | 0 | 0 |
| 18 | 1001 | -18 | 0 | 0 | 995 | -16 | 0 | 0 | 991 | -17 | 0 | 0 | 984 | -13 | 1 | 126 | 980 | -8 | 0 | 0 | 980 | -6 | 0 | 0 | 988 | -6 | 0 | 0 |
| 21 | 1000 | -13 | 0 | 0 | 994 | -14 | 0 | 0 | 990 | -18 | 1 | 135 | 983 | -11 | 1 | 113 | 980 | -7 | 1 | 92 | 981 | -5 | 0 | 0 | 990 | -4 | 0 | 0 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | day | 20 |  |  | DAY | 21 |  |
| 00 | 990 | -5 | 1 | 127 | 992 | -6 | 0 | 0 | 990 | -4 | 0 | 0 | 986 | -8 | 0 | 0 | 986 | -8 | 0 | 0 | 988 | -9 | 0 | 0 | 991 | -9 | 1 | 138 |
| 03 | 991 | -5 | 0 | 0 | 992 | -5 | 0 | 0 | 989 | -5 | 0 | 0 | 986 | -8 | 0 | 0 | 986 | -8 | 0 | 0 | 989 | -8 | 0 | 0 | 990 | -8 | 2 | 134 |
| 06 | 991 | -7 | 1 | 130 | 991 | -7 | 0 | 0 | 988 | -6 | 0 | 0 | 986 | -9 | 0 | 0 | 986 | -9 | 0 | 0 | 989 | -10 | 0 | 0 | 989 | -9 | 1 | 145 |
| 09 | 992 | -9 | 0 | 0 | 991 | -7 | 0 | 0 | 987 | -7 | 0 | 0 | 986 | -8 | 0 | 0 | 986 | -13 | 0 | 0 | 991 | -11 | 0 | 0 | 989 | -10 | 2 | 158 |
| 12 | 993 | -10 | 1 | 128 | 991 | -8 | 0 | 0 | 987 | -11 | 0 | 0 | 986 | -8 | 1 | 134 | 986 | -14 | 0 | 0 | 991 | -13 | 0 | 0 | 988 | -10 | 1 | 151 |
| 15 | 993 | -11 | 0 | 0 | 991 | -8 | 0 | 0 | 986 | -10 | 0 | 0 | 986 | -9 | 1 | 137 | 986 | -16 | 0 | 0 | 991 | -16 | 0 | 0 | 987 | -10 | 2 | 142 |
| 18 | 993 | -6 | 0 | 0 | 990 | -8 | 0 | 0 | 986 | -9 | 0 | 0 | 985 | -11 | 1 | 147 | 987 | -12 | 0 | 0 | 992 | -14 | 0 | 0 | 987 | -10 | 1 | 150 |
| 21 | 993 | -6 | 0 | 0 | 990 | -7 | 0 | 0 | 986 | -9 | 0 | 0 | 986 | -9 | 1 | 151 | 988 | -10 | 0 | 0 | 992 | -10 | 1 | 123 | 987 | -8 | 1 | 150 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | day | 25 |  |  | DAY | 26 |  |  | day | 27 |  |  | DAY | 28 |  |
| 00 | 987 | -8 | 2 | 157 | 984 | -1 | 0 | 0 | 984 | 1 | 0 | 0 | 991 | -5 | 2 | 114 | 982 | -5 | 1 | 151 | 979 | 0 | 0 | 0 | 987 | -3 | 1 | 48 |
| 03 | 987 | -7 | 1 | 164 | 982 | -1 | 1 | 99 | 984 | 0 | 0 | 0 | 989 | -5 | 2 | 128 | 981 | -5 | 1 | 151 | 979 | 0 | 0 | 0 | 987 | -3 | 0 | 0 |
| 06 | 986 | -7 | 0 | 0 | 981 | -1 | 0 | 0 | 985 | -1 | 0 | 0 | 988 | -5 | 2 | 134 | 980 | -5 | 1 | 154 | 979 | -1 | 0 | 0 | 987 | -3 | 0 | 0 |
| 09 | 986 | -8 | 0 | 0 | 980 | -2 | 0 | 0 | 987 | -2 | 0 | 0 | 987 | -6 | 2 | 133 | 980 | -5 | 1 | 151 | 981 | -3 | 0 | 0 | 987 | -3 | 0 | 0 |
| 12 | 986 | -10 | 0 | 0 | 979 | -2 | 0 | 0 | 988 | -3 | 0 | 0 | 986 | -6 | 1 | 144 | 980 | -5 | 0 | 0 | 982 | -5 | 1 | 7 | 987 | -3 | 0 | 0 |
| 15 | 985 | -8 | 0 | 0 | 979 | -3 | 0 | 0 | 990 | -4 | 0 | 0 | 984 | -6 | 1 | 142 | 979 | -5 | 0 | 0 | 984 | -4 | 0 | 0 | 988 | -3 | 0 | 0 |
| 18 | 985 | -7 | 0 | 0 | 980 | -3 | 0 | 0 | 991 | -3 | 0 | 0 | 984 | -6 | 2 | 162 | 979 | -4 | 0 | 0 | 985 | -4 | 1 | 72 | 988 | -4 | 0 | 0 |
| 21 | 984 | -3 | 0 | 0 | 982 | -2 | 0 | 0 | 991 | -6 | 1 | 110 | 983 | -6 | 2 | 147 | 979 | -3 | 0 | 0 | 986 | -3 | 1 | 67 | 988 | -4 | 0 | 0 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 988 | -4 |  | 286 | 987 | -2 | 1 | 106 | 986 | -1 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 988 | -3 | 0 | 0 | 986 | -2 | 0 | 0 | 985 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 987 | -4 |  | 317 | 986 | -2 |  | 339 | 985 | -2 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 987 | -3 | 0 | 0 | 987 | -2 | 0 | 0 | 985 | -3 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 987 | -4 |  | 328 | 986 | -3 | 0 | 0 | 985 | -4 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 987 | -4 |  | 339 | 986 | -1 | 0 | 0 | 985 | -4 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 988 | -3 | 0 | 0 | 986 | -2 | 0 | 0 | 985 | -4 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 987 | -3 | 1 | 92 | 986 | -1 | 0 | 0 | 985 | -3 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-7.7$ Std dev $=4.1$ max $=1.4$ at 50 GMt on day 27 min $=-19.0$ at 1210 GMt ON dAy 5
* THETA (K) * MEAN $=266.27$
* PRESSURE (MB) * MEAN $=989.2$ STD DEV $=6.3$ MAX $=1002.9$ AT 1720 GMT ON DAY 4 MIN $=978.4$ AT 520 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.4$ STD DEV $=0.5$ RESULTANT $=0.2$ FROM 109. CONSTANCY $=0.58$ MAX $=2.8$ FROM 110 . AT 150 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllll}\text { PERCENT: } & 100 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


HR PP TT VV DD PP TT VV DD PP TT VV DD DAY 1

$\begin{array}{lllll}00 & 982 & -4 & 2 & 178\end{array}$ $\begin{array}{lllll}03 & 982 & -5 & 2 & 139\end{array}$ $\begin{array}{lllll}06 & 982 & -5 & 3 & 168\end{array}$ $\begin{array}{lllll}09 & 982 & -6 & 3 & 161\end{array}$ $\begin{array}{lllll}12 & 982 & -5 & 0 & 0\end{array}$ | 15 | 982 | -6 | 1 |
| :--- | :--- | :--- | :--- | $\begin{array}{lllll}18 & 983 & -5 & 2 & 206\end{array}$

$\begin{array}{lllll}21 & 983 & -4 & 2 & 59\end{array}$ DAY 8
$\begin{array}{lllll}00 & 980 & -8 & 3 & 147\end{array}$ $\begin{array}{lllll}03 & 980 & -7 & 3 & 143\end{array}$ $\begin{array}{lllll}06 & 981 & -7 & 2 & 118\end{array}$ $\begin{array}{lllll}09 & 981 & -7 & 0 & 0\end{array}$ $\begin{array}{lllll}12 & 982 & -8 & 0 & 0\end{array}$ $\begin{array}{lllll}15 & 982 & -8 & 2 & 352\end{array}$ $\begin{array}{lllll}18 & 982 & -8 & 2 & 352\end{array}$ $\begin{array}{llll}21 & 983 & -7 & 3\end{array}$ DAY 15
$\begin{array}{lllll}00 & 981 & -8 & 5 & 156\end{array}$
$\begin{array}{lllll}03 & 982 & -8 & 6 & 172\end{array}$
$\begin{array}{llll}06 & 983 & -11 & 4 \\ 170\end{array}$ $\begin{array}{lllll}09 & 983 & -11 & 3 & 150\end{array}$
$\begin{array}{llll}12 & 984 & -12 & 5 \\ 154\end{array}$
$\begin{array}{lllll}15 & 985 & -12 & 4 & 147\end{array}$
$\begin{array}{lllll}18 & 985 & -12 & 3 & 149\end{array}$
$\begin{array}{lll}21 & 987-10 & 112\end{array}$ DAY 22
$\begin{array}{llll}00 & 988 & -6 & 5 \\ 226\end{array}$ $\begin{array}{lllll}03 & 988 & -7 & 6 & 227\end{array}$ $\begin{array}{llll}06 & 989 & -8 & 5 \\ 226\end{array}$ 09 990-11 4250
$\begin{array}{llll}12 & 990 & -12 & 6 \\ 250\end{array}$
$\begin{array}{llll}15 & 991 & -12 & 5 \\ 262\end{array}$
18 991-10 6248
$\begin{array}{lll}21 & 992-10 \quad 2 & 267\end{array}$ DAY 29
00 985-12 8213
$\begin{array}{llll}03 & 985 & -10 & 6 \\ 202\end{array}$
$06 \quad 984-10 \quad 7209$
$\begin{array}{llll}09 & 984 & -12 & 5 \\ 213\end{array}$
$\begin{array}{lllll}12 & 984 & -14 & 4 & 212\end{array}$
$\begin{array}{lllll}15 & 985 & -13 & 5 & 199\end{array}$
$\begin{array}{llll}18 & 986 & -13 & 4 \\ 209\end{array}$
21 987-12 5206

| PP TT WV DD | PP TT VV |  |  |
| :--- | :--- | :--- | :--- |
| DAY 2 |  |  | DAY |

$\begin{array}{llllllll}983 & -2 & 0 & 0 & 982 & -7 & 9 & 212\end{array}$
$\begin{array}{llllllll}983 & -3 & 2 & 32 & 980 & -5 & 7 & 229\end{array}$
$\begin{array}{llllllll}984 & -3 & 2 & 63 & 979 & -5 & 6 & 208\end{array}$
$\begin{array}{lllllll}984 & 0 & 0 & 978 & -6 & 5 & 219\end{array}$

| 984 | -7 | 2 | 219 | 977 | -8 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllllll}984 & -10 & 3 & 217 & 977 & -9 & 4 & 205\end{array}$
$\begin{array}{llllllll}983 & -9 & 4 & 241 & 977 & -8 & 5 & 184\end{array}$
$\begin{array}{llllllll}983 & -7 & 6 & 230 & 978 & -7 & 3 & 165\end{array}$ DAY 9
$\begin{array}{llll}983 & -6 & 3 & 341\end{array}$
$\begin{array}{llll}983 & -7 & 4 & 360\end{array}$
$\begin{array}{llll}983 & -7 & 4350\end{array}$
$\begin{array}{llllllll}983 & -7 & 3 & 345 & 984 & -10 & 4 & 180\end{array}$
$\begin{array}{llllllll}983 & -7 & 2 & 351 & 984 & -9 & 3 & 181\end{array}$
$\begin{array}{llllllll}984 & -8 & 2 & 329 & 985 & -9 & 4 & 191\end{array}$
$\begin{array}{llllllll}984 & -8 & 1 & 261 & 985 & -10 & 4 & 210\end{array}$
$\begin{array}{llllllllll}985 & -8 & 2 & 343 & 985 & -10 & 6 & 232\end{array}$ DAY 17
$\begin{array}{llllllll}987 & -8 & 0 & 0 & 990 & -9 & 2 & 270\end{array}$
$\begin{array}{llllllll}987 & -8 & 1 & 35 & 989 & -9 & 2 & 270\end{array}$
$\begin{array}{llllllll}988 & -10 & 2 & 40 & 989 & -10 & 3 & 229\end{array}$
989-10 0 0 $0 \quad 989$-10 4234
$\begin{array}{llllllll}989 & -12 & 2 & 45 & 989 & -12 & 261\end{array}$
$\begin{array}{llllllll}989 & -12 & 0 & 0 & 989 & -13 & 2 & 206\end{array}$
$990-12 \quad 2102 \quad 990-11 \quad 1209$
990 -10 $0 \quad 0 \quad 990-11 \quad 2209$

## DAY 24

$\begin{array}{llllllll}992 & -8 & 3 & 237 & 988 & -5 & 4 & 172\end{array}$
$\begin{array}{llllllll}992 & -7 & 2 & 246 & 988 & -5 & 6 & 175\end{array}$
$\begin{array}{llllllll}992 & -7 & 3 & 275 & 988 & -5 & 6 & 199\end{array}$
$\begin{array}{llllllll}992 & -7 & 1 & 220 & 988 & -7 & 7 & 199\end{array}$
$\begin{array}{llllllll}991 & -11 & 0 & 0 & 988 & -10 & 5 & 189\end{array}$
$\begin{array}{lllllll}990 & -10 & 2 & 234 & 987 & -11 & 5 \\ 191\end{array}$
$\begin{array}{llllllll}990 & -8 & 2 & 250 & 987 & -11 & 5 & 216\end{array}$
$\begin{array}{llllllll}989 & -5 & 3 & 180 & 987 & -10 & 6 & 195\end{array}$
DAY 30
988-13 4230
$\begin{array}{llllll}988 & -11 & 5 & 206 & 994 & -12 \\ 3 & 265\end{array}$
$\begin{array}{llllllll}989 & -10 & 3 & 187 & 994 & -12 & 2 & 257\end{array}$
$\begin{array}{llllllll}990 & -11 & 3 & 216 & 994 & -15 & 4 & 270\end{array}$
$\begin{array}{llllllll}991 & -18 & 3 & 274 & 994 & -19 & 362\end{array}$
$\begin{array}{llllllll}992 & -19 & 1 & 239 & 994 & -21 & 3 & 258\end{array}$
994-19 $2277 \quad 994-20 \quad 2247$
$\begin{array}{llllllll}994 & -12 & 0 & 0 & 994 & -17 & 2 & 246\end{array}$

PP TT VV DD

DAY 4
$\begin{array}{llll}978 & -6 & 4 & 161\end{array}$
$979-6 \quad 5122$
$\begin{array}{llll}980 & -6 & 4111\end{array}$
$\begin{array}{llll}981 & -5 & 1 & 161\end{array}$
981-10 2209
$\begin{array}{llll}981 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}980 & -9 & 2 & 64\end{array}$
$\begin{array}{llll}981 & -7 & 10 & 33\end{array}$
DAY 11
$\begin{array}{lll}986 & -9 & 5210\end{array}$
$\begin{array}{llll}986 & -8 & 5 & 188\end{array}$
$\begin{array}{llll}986 & -8 & 4 & 219\end{array}$
$\begin{array}{llll}986 & -9 & 6 & 198\end{array}$
986-10 4210
987-10 6195
987-10 5205
987-10 4241
DAY 18
$\begin{array}{lll}991 & -6 & 1225\end{array}$
$\begin{array}{llll}991 & -5 & 1 & 220\end{array}$
$992-5 \quad 1225$
$\begin{array}{llll}992 & -8 & 1 & 265\end{array}$
992-11 2229
992-14 2246
993-11 1229
$\begin{array}{llll}994 & -8 & 1 & 246\end{array}$
DAY 25
$\begin{array}{llll}986 & -8 & 6 & 216\end{array}$
$\begin{array}{llll}984 & -8 & 7227\end{array}$
$\begin{array}{llll}983 & -7 & 6 & 209\end{array}$
982-10 4225
981-10 4232
$\begin{array}{llll}981 & -9 & 4 & 248\end{array}$

| 980 | -9 | 3 |
| :--- | :--- | :--- |

980-10 2281

| DAY |  | VV | DD | PP | TT | W | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 5 |  |  | DAY | 6 |  | DAY |  |  |  |
| 981 | -7 | 4 | 351 | 984 | -8 | 2 | 357 | 981 | -8 |  | 285 |
| 981 | -5 | 5 | 15 | 984 | -8 | 4 | 357 | 979 | -8 | 8 | 208 |
| 981 | -5 | 3 | 32 | 983 | -8 | 4 | 360 | 979 | -8 | 5 | 182 |
| 981 | -6 | 2 | 39 | 983 | -9 | 2 | 254 | 979 | -8 | 6 | 188 |
| 982 | -8 | 6 | 21 | 983 | -9 | 2 | 310 | 979 | -8 | 5 | 180 |
| 982 | -8 | 6 | 12 | 983 | -8 | 4 | 270 | 979 | -9 | 4 | 198 |
| 983 | -8 | 6 | 30 | 981 | -9 | 7 | 285 | 979 | -8 | 3 | 187 |
| 983 | -8 | 5 | 1 | 981 | -9 | 4 | 268 | 980 | -8 | 2 | 205 |
| DAY 12 |  |  |  | DAY 13 |  |  |  | DAY 14 |  |  |  |
| 987 | -9 | 3 | 229 | 986 | -5 | 0 | 0 | 984 | -12 | 5 | 257 |
| 987 | -9 | 3 | 255 | 986 | -7 | 2 | 268 | 982 | -10 |  | 262 |
| 987 | -8 | 2 | 282 | 986 | -8 | 2 | 230 | 981 | -6 |  | 216 |
| 986 | -11 | 2 | 284 | 985 | -8 | 1 | 212 | 980 | -4 | 8 | 194 |
| 986 | -11 | 3 | 310 | 986 | -9 | 3 | 175 | 980 | -8 | 6 | 212 |
| 986 | -11 | 2 | 255 | 985 | -9 | 1 | 192 | 979 | -8 | 6 | 208 |
| 986 | -8 | 0 | 0 | 985 | -8 | 2 | 167 | 980 | -8 | 6 | 199 |
| 986 | -8 | 0 | 0 | 985 | -11 | 3 | 194 | 979 | -6 | 5 | 177 |
| DAY 19 |  |  |  | day 20 |  |  |  | DAY 21 |  |  |  |
| 994 | -8 | 2 | 257 | 991 | -7 | 6 | 196 | 988 | -6 | 4 | 168 |
| 993 | -7 | 2 | 247 | 990 | -7 | 3 | 219 | 988 | -7 | 4 | 191 |
| 993 | -7 | 3 | 253 | 990 | -8 | 3 | 151 | 987 | -8 | 4 | 209 |
| 992 | -9 | 2 | 246 | 990 | -9 | 3 | 180 | 987 | -7 | 5 | 239 |
| 992 | -12 | 2 | 191 | 989 | -9 | 3 | 157 | 987 | -8 | 4 | 195 |
| 992 | -12 | 4 | 126 | 988 | -9 | 3 | 154 | 987 | -8 | 5 | 219 |
| 992 | -9 | 4 | 129 | 988 | -9 | 4 | 205 | 987 | -8 | 4 | 219 |
| 992 | -7 | 3. | . 234 | 988 | -7 | 2 | 168 | 988 | -7 | 4 | 206 |
| DAY 26 |  |  |  | DAY 27 |  |  |  | day 28 |  |  |  |
| 980 | -8 | 2 | 291 | 983 | -10 |  | 210 | 986 | -10 | 5 | 270 |
| 980 | -7 | 2 | 300 | 983 | -11 |  | 223 | 986 | -6 |  | 210 |
| 980 | -9 | 2 | 326 | 984 | -11 |  | 262 | 986 | -8 |  | 180 |
| 980 | -11 | 2 | 310 | 985 | -12 | 1 | 268 | 986 | -11 |  | 209 |
| 981 | -16 | 2 | 315 | 985 | -13 | 2 | 244 | 986 | -10 | 5 | 210 |
| 981 | -17 | 2 | 296 | 985 | -18 | 2 | 310 | 986 | -14 |  | 217 |
| 982 | -14 | 2 | 254 | 986 | -14 | 4 | 289 | 986 | -14 |  | 215 |
| 982 | -11 | 1 | 257 | 986 | -12 | 5 | 262 | 986 | -13 |  | 206 |

* temperature ( $C$ ) * mean $=-9.1$ std dev $=3.0$ maX $=-1.9$ at 100 GMT on day 2 min $=-20.9$ at 1450 gmt on day 31
* theta (K) * MEAN $=265.19$
* PRESSURE (MB) * MEAN $=985.5$ STD DEV $=4.3$ MAX $=994.3$ at 40 GMT ON DAY 31 MIN $=976.9$ at 1420 GMt ON DAY 3
* WINDS (M/S) * MEAN $=3.4$ STD DEV $=2.0$ RESULTANT $=2.0$ FROM 218. CONSTANCY $=0.60$ MAX $=10.4$ FROM 226. AT 2310 GMT DAY 2 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 26 & 37 & 28 & 7 & 2 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT $\begin{array}{rrrrrrrrrrrrrrrr}\text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ 5 & 3 & 2 & 1 & 0 & 2 & 2 & 7 & 10 & 21 & 16 & 13 & 9 & 4 & 3 & 2\end{array}$

FEB 97
HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 994 & -15 & 3 \\ 246\end{array}$
$\begin{array}{llll}03 & 994 & -12 & 3 \\ 246\end{array}$
$\begin{array}{lllll}06 & 994 & -12 & 3 & 251\end{array}$
$\begin{array}{lllll}09 & 993 & -14 & 3 & 241\end{array}$
$2 \quad 994-14 \quad 2247$
$\begin{array}{llll}15 & 994 & -13 & 3\end{array}$ 18
$\begin{array}{lllll}21 & 994 & -14 & 5 & 258\end{array}$
DAY 8
$\begin{array}{lllll}00 & 985 & -14 & 1 & 8\end{array}$
$\begin{array}{lllll}03 & 985 & -14 & 2 & 66\end{array}$
$\begin{array}{lllll}06 & 985 & -13 & 0 & 0\end{array}$
$\begin{array}{lllll} & 985 & -14 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 986 & -14 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 986 & -14 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 986 & -17 & 2\end{array} 289$
$\begin{array}{llll}21 & 987 & -13 & 0\end{array} 0$
DAY 15
$\begin{array}{lllll}00 & 983 & -23 & 2 & 248\end{array}$
$\begin{array}{lllll}03 & 983 & -20 & 4 & 209\end{array}$
$\begin{array}{llll}06 & 983 & -19 & 4 \\ 203\end{array}$
$\begin{array}{llll}09 & 983 & -23 & 2 \\ 201\end{array}$
$\begin{array}{lllll}12 & 984 & -31 & 3 & 240\end{array}$
$\begin{array}{lllll}15 & 984 & -30 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 984 & -25 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 984 & -25 & 226\end{array}$
DAY 22
$00 \quad 980$-21 4241
$\begin{array}{lllll}03 & 980 & -22 & 5 & 234\end{array}$
$\begin{array}{llll}06 & 980 & -22 & 4 \\ 254\end{array}$
$\begin{array}{lllll}09 & 980 & -22 & 3 & 255\end{array}$
$\begin{array}{lllll}12 & 979 & -27 & 3 & 360\end{array}$
$\begin{array}{lllll}15 & 979 & -32 & 240\end{array}$
$\begin{array}{lllll}18 & 981 & -31 & 3 & 240\end{array}$
$\begin{array}{llll}21 & 981 & -23 & 4\end{array} 288$


| PP | TT | V | DD | PP | TT | vV | DD | PP |  | W | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 990 | -13 | 4 | 330 | 985 | -11 |  | 281 | 989 | -12 | 2 | 271 | 988 | -12 | 3 | 254 |
| 989 | -10 | 3 | 310 | 986 | -10 | 8 | 282 | 989 | -12 | 2 | 8 | 986 | -12 | 2 | 296 |
| 988 | -11 | 5 | 267 | 987 | -10 | 7 | 285 | 988 | -12 | 3 | 35 | 986 | -12 | 2 | 298 |
| 987 | -9 | 7 | 295 | 988 | -10 | 2 | 277 | 989 | -12 | 2 | 53 | 985 | -19 | 3 | 310 |
| 986 | -9 | 5 | 261 | 988 | -13 | 2 | 293 | 989 | -13 | 2 | 85 | 985 | -24 | 2 | 338 |
| 986 | -12 | 7 | 300 | 989 | -13 | 2 | 310 | 989 | -13 | 0 | 0 | 984 | -22 | 2 | 358 |
| 985 | -10 | 8 | 299 | 989 | -13 | 4 | 271 | 989 | -13 | 2 | 212 | 985 | -20 | 1 | 8 |
| 985 | -11 | 9 | 295 | 989 | -12 | 3 | 292 | 988 | -12 | 1 | 223 | 985 | -17 | 1 | 64 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DaY | 14 |  |
| 992 | -19 | 3 | 188 | 991 | -16 | 4 | 258 | 983 | -15 | 2 | 255 | 979 | -19 | 0 | 0 |
| 992 | -19 | 3 | 189 | 990 | -15 | 4 | 182 | 981 | -15 | 3 | 209 | 979 | -19 | 0 | 0 |
| 992 | -19 | 3 | 184 | 989 | -15 | 0 | 0 | 981 | -21 | 4 | 188 | 979 | -19 | 0 | 0 |
| 992 | -20 | 4 | 250 | 988 | -18 | 3 | 237 | 980 | -20 | 2 | 189 | 980 | -20 | 0 | 0 |
| 992 | -19 | 1 | 147 | 987 | -21 |  | 307 | 980 | -26 | 4 | 225 | 981 | -23 | 0 | 0 |
| 992 | -19 | 0 | 0 | 985 | -18 | 4 | 240 | 980 | -30 | 2 | 226 | 982 | -25 | 3 | 230 |
| 992 | -20 | 4 | 289 | 984 | -19 | 3 | 232 | 979 | -23 | 3 | 223 | 982 | -22 | 4 | 230 |
| 992 | -17 | 4 | 289 | 984 | -17 | 4 | 244 | 979 | -25 | 0 | 0 | 983 | -25 | 4 | 222 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 993 | -27 | 7 | 203 | 992 | -23 | 1 | 129 | 987 | -19 | 12 | 185 | 982 | -19 | 10 | 216 |
| 993 | -27 | 6 | 225 | 991 | -23 | 4 | 172 | 986 | -19 | 13 | 187 | 982 | -18 | 9 | 203 |
| 993 | -27 | 3 | 251 | 990 | -22 | 7 | 192 | 985 | -20 | 14 | 196 | 981 | -19 | 8 | 220 |
| 993 | -31 | 2 | 241 | 989 | -22 | 8 | 201 | 984 | -21 | 18 | 199 | 981 | -20 | 6 | 210 |
| 992 | -33 | 2 | 250 | 989 | -21 | 8 | 206 | 983 | -21 | 14 | 201 | 981 | -20 | 6 | 223 |
| 992 | -31 | 0 | 0 | 989 | -21 | 11 | 206 | 982 | -20 | 12 | 209 | 981 | -22 | 7 | 223 |
| 992 | -27 | 0 | 0 | 988 | -20 | 13 | 208 | 981 | -20 | 12 | 212 | 980 | -23 | 6 | 239 |
| 992 | -24 | 0 | 0 | 988 | -19 | 9 | 198 | 981 | -19 | 12 | 208 | 980 | -23 | 6 | 236 |
|  | DAY | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  |  | 28 |  |
| 987 | -28 |  | 270 | 994 | -26 |  | 265 | 993 | -20 | 9 | 217 | 982 | -26 | 6 | 246 |
| 988 | -25 | 2 | 313 | 995 | -23 |  | 225 | 992 | -19 | 11 | 216 | 979 | -25 | 7 | 258 |
| 988 | -24 | 1 | 291 | 996 | -22 | 5 | 198 | 991 | -20 | 9 | 210 | 977 | -26 | 6 | 257 |
| 989 | -27 | 3 | 354 | 996 | -23 |  | 212 | 990 | -21 | 7 | 217 | 976 | -29 | 5 | 250 |
| 990 | -30 |  | 360 | 996 | -21 |  | 215 | 988 | -23 | 7 | 223 | 974 | -29 | 5 | 240 |
| 991 | -30 | 2 | 322 | 996 | -22 | 5 | 220 | 987 | -27 | 5 | 244 | 973 | -31 | 4 | 261 |
| 992 | -29 | 3 | 306 | 995 | -22 | 9 | 230 | 985 | -28 | 5 | 255 | 973 | -32 | 5 | 261 |
| 993 | -28 |  | 255 | 994 | -23 | 11 | 219 | 983 | -27 | 5 | 237 | 973 | -31 | 5 | 251 |

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-20.5$ STD DEV $=5.9$ mAX $=-8.4$ AT 1020 GMT ON DAY 4 MIN $=-35.0$ AT 1300 GMT ON DAY 18
* theta (K) * MEAN $=253.65$
* PRESSURE (MB) * MEAN $=986.8$ STD DEV $=5.0$ MAX $=996.6$ AT 950 GMT ON DAY 26 MIN $=972.4$ AT 1910 GMT ON DAY 28
* WINDS (M/S) * MEAN $=3.7$ STD DEV $=3.1$ RESULTANT $=2.7$ FROM 237. CONSTANCY $=0.73$ MAX $=19.3$ FROM 198. AT 930 GMT DAY 20
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 30 & 35 & 16 & 8 & 5 & & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \mathrm{N} & \text { NNE } & \text { NE } & \text { ENE } & \mathrm{E} & \text { ESE } & \text { SE } & \text { SSE } & \mathrm{S} & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT $\begin{array}{lrrrrrrrrrrrrrrr}\text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ 4 & 0 & 1 & 1 & 1 & 1 & 1 & 2 & 7 & 13 & 16 & 21 & 10 & 13 & 6 & 4\end{array}$

MAR 97
HR PP TT VV DD $\begin{array}{llll}00 & 973 & -29 & 4\end{array}$ $\begin{array}{llll}03 & 973 & -26 & 5 \\ 255\end{array}$ $\begin{array}{llll}06 & 974 & -26 & 6 \\ 248\end{array}$ $\begin{array}{llll}09 & 974 & -26 & 5 \\ 268\end{array}$ $\begin{array}{llll}12 & 976 & -32 & 2\end{array} 296$ $\begin{array}{llll}15 & 976 & -34 & 2 \\ 291\end{array}$ $\begin{array}{lllll}18 & 978 & -34 & 2 & 320\end{array}$
$\begin{array}{llll}21 & 979 & -32 & 2317\end{array}$ DAY 8
$\begin{array}{llll}00 & 975 & -35 & 1 \\ 247\end{array}$
$\begin{array}{llll}03 & 975 & -30 & 0\end{array} 0$
$\begin{array}{lllll}06 & 974 & -32 & 1 & 320\end{array}$
$09 \quad 975$-36 2337
$\begin{array}{lllll}12 & 976 & -35 & 2 & 298\end{array}$
$\begin{array}{lllll}15 & 977 & -37 & 2 & 329\end{array}$
$\begin{array}{llll}18 & 978 & -35 & 2 \\ 307\end{array}$
21 979-33 1292
DAY 15
$\begin{array}{llll}00 & 982 & -25 & 0\end{array} 0$
$\begin{array}{lllll}03 & 983 & -26 & 4 & 188\end{array}$
$\begin{array}{llll}06 & 984 & -28 & 4 \\ 170\end{array}$
$\begin{array}{lllll}09 & 983 & -30 & 4 & 188\end{array}$
$\begin{array}{llll}12 & 983 & -32 & 1 \\ 232\end{array}$
$\begin{array}{lllll}15 & 983 & -36 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 982 & -37 & 0\end{array} 0$
$\begin{array}{llll}21 & 980 & -34 & 0\end{array}$ DAY 22
$00 \quad 980-44 \quad 2205$
$\begin{array}{lllll}03 & 981 & -42 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 982 & -43 & 0\end{array} 0$
$\begin{array}{lllll}09 & 983 & -44 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 984 & -44 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 985 & -42 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 986 & -40 & 0\end{array} 0$
$\begin{array}{lllll}21 & 986 & -38 & 0 & 0\end{array}$

## DAY 29

$\begin{array}{llll}00 & 954 & -31 & 5319\end{array}$
$\begin{array}{llll}03 & 953 & -30 & 2 \\ 296\end{array}$
$06 \quad 951$-29 5293
$09 \quad 951$-28 6307
$\begin{array}{llll}12 & 947-24 & 9 & 300\end{array}$
$\begin{array}{llllll}15 & 945 & -24 & 11 & 352\end{array}$
$\begin{array}{lllll}18 & 948 & -28 & 9 & 35\end{array}$
$\begin{array}{lllll}21 & 957 & -33 & 5 & 85\end{array}$

PP TT VV DD PP TT VV DD DAY 2
980-30 1291
$\begin{array}{llll}981 & -29 & 0 & 0\end{array}$
982-28 1226
$\begin{array}{llll}984 & -31 & 1 & 219\end{array}$
$\begin{array}{lll}985 & -30 & 212\end{array}$
$\begin{array}{llll}986 & -33 & 1 & 288\end{array}$
987-32 00
987-28 0 DAY 9
981-33 2322
982-27 1299
983-27 2345

| 984 | -25 | 2 |
| :--- | :--- | :--- |

$\begin{array}{llllllll}985 & -26 & 0 & 0 & 977 & -30 & 4 & 225\end{array}$
$\begin{array}{llllllll}985 & -26 & 2 & 240 & 976 & -31 & 5 & 227\end{array}$
$\begin{array}{lllllll}985 & -25 & 2 & 262 & 975 & -34 & 5 \\ 274\end{array}$
$\begin{array}{llllllll}984 & -25 & 0 & 0 & 973 & -37 & 3 & 233\end{array}$ DAY 17
$\begin{array}{llllllll}978 & -31 & 0 & 0 & 978 & -32 & 0 & 0\end{array}$
$\begin{array}{llllllll}978 & -29 & 3 & 271 & 977 & -30 & 4 & 306\end{array}$
$\begin{array}{lllllllll}977 & -31 & 3 & 295 & 978 & -29 & 3 & 281\end{array}$

$\begin{array}{llllllll}976 & -32 & 0 & 0 & 979 & -35 & 1 & 296\end{array}$
$\begin{array}{llllllll}976 & -36 & 0 & 0 & 979 & -30 & 0 & 0\end{array}$
$\begin{array}{llllllll}976 & -34 & 0 & 0 & 980 & -28 & 0 & 0\end{array}$
$\begin{array}{llllllll}977 & -32 & 0 & 0 & 981 & -30 & 0 & 0\end{array}$
DAY 23
987-34 00
987-32 00
$\begin{array}{llll}987 & -30 & 0 & 0\end{array}$
$\begin{array}{llll}987 & -30 & 0 & 0\end{array}$
988-28 00
988-28 00
988-27 00
988-29 0
DAY 30
961-36 0
$\begin{array}{llll}961 & -33 & 0 & 0\end{array}$
$\begin{array}{llll}960 & -35 & 5 & 264\end{array}$
960-34 4236
$\begin{array}{llll}960 & -31 & 4 & 237\end{array}$
962-34 4229
963-29 6196
$\begin{array}{llll}962 & -34 & 5 & 255\end{array}$

DAY 24
988-26 0 0
988-26 00
988-24 00
$\begin{array}{llll}989 & -24 & 0 & 0\end{array}$
989-28 0
990-30 0
991-28 0
992-27 4312 DAY 31
960-24 9261
960-21 10247
964-27 10184
969-31 12195
971-28 11201
972-28 10203
972-30 9216
971 -34 5261

| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP | TT | W | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | day | 7 |  |
| 978 | -23 | 4 | 285 | 974 | -24 | 0 | 0 | 976 | -25 | 5 | 250 | 972 | -22 | 4 | 180 |
| 977 | -25 | 3 | 236 | 974 | -22 | 3 | 226 | 975 | -24 | 5 | 261 | 972 | -24 | 4 | 209 |
| 977 | -24 | 3 | 219 | 974 | -23 | 2 | 248 | 975 | -24 | 5 | 258 | 972 | -28 | 4 | 182 |
| 975 | -27 | 2 | 187 | 973 | -26 | 0 | 0 | 975 | -27 | 5 | 268 | 972 | -33 | 3 | 189 |
| 975 | -31 | 1 | 185 | 974 | -30 | 4 | 237 | 975 | -26 | 8 | 265 | 973 | -36 | 4 | 199 |
| 975 | -31 | 0 | 0 | 974 | -26 | 2 | 188 | 974 | -28 | 6 | 277 | 973 | -37 | 3 | 198 |
| 974 | -31 | 0 | 0 | 975 | -28 | 0 | 0 | 973 | -25 | 9 | 275 | 973 | -38 | 3 | 212 |
| 974 | -27 | 0 | 0 | 975 | -24 | 2 | 236 | 972 | -23 | 7 | 270 | 974 | -35 | 2 | 182 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 972 | -36 |  | 240 | 966 | -38 |  | 270 | 957 | -35 | 2 | 264 | 966 | -30 | 4 | 330 |
| 971 | -36 | 4 | 236 | 964 | -34 |  | 274 | 957 | -31 | 3 | 271 | 967 | -27 | 4 | 296 |
| 970 | -36 | 4 | 248 | 962 | -33 |  | 275 | 958 | -30 | 5 | 265 | 969 | -31 | 5 | 350 |
| 969 | -38 | 1 | 243 | 961 | -29 | 6 | 272 | 958 | -32 | 3 | 278 | 971 | -32 | 2 | 340 |
| 969 | -40 | 2 | 237 | 959 | -33 | 4 | 293 | 960 | -33 | 3 | 271 | 975 | -33 | 2 | 2 |
| 968 | -40 | 2 | 232 | 958 | -35 | 0 | 0 | 961 | -31 | 6 | 284 | 977 | -27 | 0 | 0 |
| 968 | -42 | 1 | 233 | 957 | -37 | 2 | 302 | 963 | -30 | 6 | 284 | 979 | -28 | 0 | 0 |
| 967 | -40 | 2 | 264 | 957 | -35 | 3 | 303 | 964 | -29 | 6 | 296 | 980 | -24 | 0 | 0 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 982 | -29 | 0 | 0 | 984 | -38 | 0 | 0 | 983 | -39 | 3 | 281 | 978 | -38 | 0 | 0 |
| 982 | -28 |  | 296 | 983 | -37 |  | 257 | 982 | -37 | 4 | 265 | 976 | -34 | 0 | 0 |
| 982 | -30 | 7 | 267 | 983 | -38 | 0 | 0 | 981 | -38 | 4 | 265 | 976 | -40 | 3 | 241 |
| 982 | -31 | 12 | 251 | 983 | -40 | 5 | 265 | 981 | -40 | 4 | 247 | 976 | -42 | 0 | 0 |
| 983 | -32 | 7 | 262 | 983 | -41 | 3 | 264 | 979 | -42 | 0 | 0 | 976 | -44 | 1 | 14 |
| 983 | -34 | 5 | 282 | 983 | -41 | 5 | 291 | 979 | -43 | 2 | 340 | 977 | -46 | 0 | 0 |
| 982 | -36 | 5 | 241 | 982 | -38 |  | 243 | 979 | -43 | 0 | 0 | 977 | -43 | 0 | 0 |
| 984 | -39 | 3 | 300 | 983 | -38 |  | . 243 | 978 | -40 | 0 | 0 | 979 | -41 | 0 | 0 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 994 | -28 | 5 | 293 | 993 | -28 | 5 | 222 | 983 | -38 | 0 | 0 | 974 | -40 |  | 233 |
| 994 | -27 | 6 | 300 | 992 | -32 |  | 216 | 981 | -38 | 0 | 0 | 973 | -38 | 5 | 239 |
| 995 | -26 |  | 295 | 992 | -36 |  | 222 | 981 | -40 | 0 | 0 | 970 | -38 | 0 | 0 |
| 996 | -30 |  | 312 | 991 | -37 |  | 237 | 981 | -41 | 0 | 0 | 967 | -39 |  | 257 |
| 996 | -30 |  | 255 | 990 | -37 |  | 213 | 980 | -42 | 0 | 0 | 965 | -35 |  | 270 |
| 995 | -31 | 6 | 271 | 988 | -38 | 0 | 0 | 979 | -43 | 2 | 217 | 962 | -34 |  | 274 |
| 994 | -33 | 4 | 279 | 985 | -39 | 3 | 57 | 978 | -42 | 0 | 0 | 959 | -32 | 6 | 279 |
| 994 | -33 | 4 | 270 | 983 | -38 | 0 | 0 | 976 | -39 | 0 | 0 | 956 | -31 | 6 | 322 |

MONTHLY SUMMARY

* TEMPERATURE $(C) *$ MEAN $=-32.0$ StD DEV $=5.6$ MAX $=-19.8$ AT 2250 GMT ON DAY 6 MIN $=-45.9$ AT 1510 GMT ON. DAY 21
* THETA (K) * MEAN $=242.82$
* PRESSURE (MB) * MEAN $=976.3$ STD DEV $=9.9$ MAX $=996.3$ AT 1220 GMT ON DAY 25 MIN $=944.3$ AT 1440 GMT ON DAY 29
* WINDS (M/S) * MEAN $=2.9$ STD DEV $=2.8$ RESULTANT $=2.1$ FROM 262. CONSTANCY $=0.73$ MAX $=16.8$ FROM 196. AT 1120 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 18 -20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 2 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 6 & 7 & 13 & 17 & 24 & 17 & 7 & 4\end{array}$

APR 97
HR PP TTVV DD DAY 1
$\begin{array}{llll}00 & 969 & -34 & 5 \\ 258\end{array}$
$03 \quad 966-32 \quad 6270$
$\begin{array}{lllll}06 & 964 & -32 & 8 & 281\end{array}$
$\begin{array}{lllll}09 & 963 & -32 & 8 & 299\end{array}$
$12-963-2713274$
$\begin{array}{lllll}15 & 964 & -26 & 12 & 260\end{array}$
$\begin{array}{lllll}18 & 967 & -34 & 3 & 165\end{array}$
$\begin{array}{llll}21 & 969 & -35 & 0\end{array}$ DAY 8
$\begin{array}{llll}00 & 971 & -24 & 5 \\ 135\end{array}$
$\begin{array}{llllll}03 & 973 & -27 & 4 & 143\end{array}$
$\begin{array}{lllll}06 & 974 & -32 & 3 & 172\end{array}$
$\begin{array}{lllll}09 & 976 & -33 & 4 & 147\end{array}$
$\begin{array}{lllll}12 & 979 & -29 & 3 & 151\end{array}$
$\begin{array}{lllll}15 & 981 & -27 & 2 & 150\end{array}$
$\begin{array}{lllll}18 & 984 & -28 & 5 & 196\end{array}$
$21 \quad 985-28 \quad 2192$ DAY 15
$00 \quad 977-33 \quad 8216$
$\begin{array}{llll}03 & 979 & -38 & 4 \\ 220\end{array}$
$\begin{array}{lllll}06 & 980 & -35 & 8 & 234\end{array}$
$\begin{array}{lllll}09 & 981 & -34 & 5 & 215\end{array}$
$\begin{array}{lllll}12 & 983 & -33 & 7 & 217\end{array}$
$\begin{array}{lllll}15 & 983 & -36 & 8 & 243\end{array}$
$\begin{array}{llll}18 & 984 & -36 & 7 \\ 240\end{array}$
$\begin{array}{llll}21 & 985 & -36 & 5 \\ 236\end{array}$ DAY 22
$\begin{array}{llll}00 & 994 & -40 \quad 4 & 315\end{array}$
$\begin{array}{lllll}03 & 994 & -38 & 5 & 288\end{array}$
$06 \quad 993-3710264$
$\begin{array}{lllll}09 & 993 & -36 & 8 & 267\end{array}$
$\begin{array}{lllll}12 & 993 & -37 & 8 & 262\end{array}$
$\begin{array}{llll}15 & 993 & -37 & 7 \\ 260\end{array}$
$\begin{array}{llll}18 & 992 & -36 & 9 \\ 296\end{array}$
$\begin{array}{llll}21 & 992 & -37 & 5 \\ 296\end{array}$ DAY 29
$00 \quad 976-40 \quad 8360$
$\begin{array}{llll}03 & 976 & -42 & 5 \\ 284\end{array}$
$06 \quad 976-46 \quad 6246$
$\begin{array}{llll}09 & 977 & -47 & 4 \\ 208\end{array}$
$\begin{array}{lllll}12 & 978 & -47 & 3 & 203\end{array}$
$\begin{array}{llll}15 & 979 & -45 & 2\end{array}$
$\begin{array}{llll}18 & 978 & -46 & 286\end{array}$
$\begin{array}{llll}21 & 977-45 \quad 4 & 248\end{array}$

| PP | IT | vV | DD | PP | TT | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |
| 971 | -31 | 0 | 0 | 976 | -30 | 12265 |
| 973 | -27 | 5 | 220 | 976 | -29 | 14264 |
| 975 | -29 | 5 | 187 | 976 | -29 | 11271 |
| 976 | -32 | 4 | 225 | 978 | -34 | 4215 |
| 977 | -33 | 6 | 241 | 980 | -42 | 206 |
| 975 | -31 | 9 | 278 | 982 | -41 | 6202 |
| 975 | -31 | 10 | 274 | 984 | -46 | 4189 |
| 976 | -31 | 10 | 270 | 985 | -46 | 5205 |
|  | DAY | 9 |  |  | DAY | 10 |
| 986 | -34 | 5 | 202 | 982 | -31 | 00 |
| 987 | -37 | 5 | 189 | 981 | -31 | 00 |
| 987 | -38 | 3 | 217 | 981 | -32 | 6253 |
| 986 | -40 | 3 | 219 | 980 | -33 | 243 |
| 986 | -39 | 2 | 251 | 979 | -38 | 3268 |
| 984 | -36 | 2 | 299 | 979 | -41 | 00 |
| 983 | -35 | 0 | 0 | 977 | -41 | 279 |
| 983 | -33 | 2 | 278 | 77 | -43 | 2239 |
|  | DAY | 16 |  |  | DAY | 17 |
| 986 | -33 | 5 | 241 | 991 | -28 | 6278 |
| 986 | -34 | 4 | 268 | 992 | -31 | 310 |
| 985 | -30 | 10 | 267 | 993 | -32 | 5307 |
| 986 | -28 | 6 | 233 | 994 | -30 | 8275 |
| 987 | -29 | 4 | 248 | 995 | -30 | 6293 |
| 988 | -29 | 5 | 260 | 996 | -33 | 6279 |
| 989 | -27 | 5 | 260 | 998 | -39 | 3 |
| 990 | -29 | 5 | 264 | 999 | -33 | 2323 |
|  | DAY | 23 |  |  | DAY | 24 |
| 990 | -37 | 7 | 268 | 989 | -48 | 4360 |
| 989 | -39 | 6 | 216 | 988 | -43 | 4360 |
| 988 | -43 | 2 | 254 | 986 | -46 | 2300 |
| 988 | -48 | 3 | 215 | 985 | -47 | 4341 |
| 989 | -49 | 2 | 212 | 985 | -49 | 5354 |
| 989 | -47 | 3 | 225 | 984 | -42 | 9336 |
| 990 | -49 | 4 | 237 | 983 | -45 | 5340 |
| 989 | -48 | 5 | 360 | 983 | -41 | 6319 |

976 -30 12265
976 -29 14264
976 -29 11271
$978-34 \quad 4215$

982-41 6202
$\begin{array}{lllll}984 & -46 & 4 & 189\end{array}$
985-46 5205 DAY 10
982-31 00
$\begin{array}{llll}981 & -31 & 0 & 0\end{array}$
$\begin{array}{llll}981 & -32 & 6 & 253\end{array}$
$\begin{array}{llll}980 & -33 & 4 & 243\end{array}$
979-38 3268
979-41 0
977-41 1279
$77-43239$
DAY 17
991-28 6278
$992-314310$
$993-32 \quad 5307$
$994-308275$
$995-30 \quad 6293$
$\begin{array}{llll}996 & -33 & 6 & 279 \\ 998 & -39 & 3 & 9\end{array}$
999 -33 2323
$989-48 \quad 4360$
$\begin{array}{llll}988 & -43 & 4 & 360\end{array}$
$\begin{array}{lll}986 & -46 & 2300\end{array}$
$\begin{array}{llll}985 & -47 & 4 & 341\end{array}$
985 -49 5354
$984-42 \quad 9336$
$\begin{array}{llll}983 & -45 & 5 & 340 \\ 983 & -41 & 6 & 319\end{array}$

| PP | IT | VV | DD | PP | It | VV | DD | PP | TT | VV | DD | PP | TT | vV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 985 | -46 | 2 | 172 | 978 | -27 | 2 | 210 | 972 | -34 | 6 | 172 | 971 | -41 | 2 | 303 |
| 985 | -45 | 2 | 239 | 974 | -30 | 6 | 234 | 973 | -32 | 6 | 203 | 967 | -37 | 4 | 1 |
| 984 | -47 | 0 | 0 | 971 | -27 | 7 | 246 | 972 | -31 | 2 | 254 | 965 | -30 | 6 | 336 |
| 983 | -40 | 0 | 0 | 967 | -21 | 11 | 251 | 970 | -33 | 3 | 46 | 963 | -32 | 4 | 358 |
| 981 | -36 | 0 | 0 | 962 | -20 | 13 | 255 | 973 | -32 | 3 | 132 | 962 | -32 | 2 | 18 |
| 980 | -30 |  | 225 | 957 | -11 | 19 | 209 | 974 | -37 | 2 | 172 | 963 | -33 | 2 | 15 |
| 979 | -26 | 4 | 226 | 958 | -23 | 18 | 153 | 974 | -40 | 2 | 229 | 966 | -24 | 0 | 0 |
| 979 | -24 | 6 | 191 | 968 | -33 | 14 | 165 | 973 | -42 | 2 | 289 | 969 | -24 | 3 | 133 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 976 | -44 |  | 217 | 973 | -39 | 3 | 261 | 975 | -34 | 10 | 201 | 975 | -35 | 7 | 246 |
| 975 | -44 | 2 | 262 | 973 | -37 | 4 | 267 | 976 | -39 | 7 | 198 | 975 | -35 | 6 | 246 |
| 974 | -42 | 3 | 265 | 973 | -39 | 4 | 275 | 976 | -39 | 6 | 227 | 974 | -38 | 4 | 248 |
| 974 | -40 | 3 | 279 | 973 | -37 | 4 | 262 | 976 | -40 | 5 | 232 | 973 | -35 | 9 | 257 |
| 973 | -39 | 2 | 255 | 973 | -35 | 6 | 254 | 976 | -37 | 7 | 217 | 974 | -36 | 6 | 230 |
| 973 | -39 | 4 | 268 | 973 | -33 | 6 | 216 | 976 | -38 | 5 | 209 | 974 | -38 | 6 | 239 |
| 972 | -38 | 4 | 268 | 974 | -35 | 6 | 222 | 976 | -36 | 7 | 241 | 976 | -37 | 6 | 234 |
| 973 | -38 | 4 | 254 | 974 | -34 | 8 | 232 | 975 | -35 | 9 | 262 | 977 | -36 | 8 | 237 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 1001 | -41 |  | 334 | 1009 | -44 | 2 | 257 | 1003 | -30 |  | 274 | 997 | -34 | 4 | 278 |
| 1002 | -39 | 4 | 288 | 1009 | -43 | 0 | 0 | 1002 | -33 | 6 | 265 | 997 | -38 | 4 | 271 |
| 1004 | -40 | 3 | 323 | 1008 | -37 | 5 | 264 | 1001 | -35 | 4 | 274 | 996 | -38 | 6 | 240 |
| 1005 | -40 |  | 341 | 1007 | -38 | 0 | 0 | 1000 | -33 | 5 | 267 | 997 | -43 | 3 | 295 |
| 1006 | -42 | 3 | 316 | 1006 | -33 | 7 | 303 | 999 | -34 | 6 | 265 | 997 | -44 | 4 | 250 |
| 1006 | -43 | 1 | 333 | 1006 | -32 | 6 | 312 | 999 | -36 | 3 | 216 | 996 | -42 | 4 | 260 |
| 1007 | -43 | 1 | 248 | 1004 | -32 | 6 | 288 | 998 | -34 | 1 | 268 | 995 | -43 | 0 | 0 |
| 1008 | -44 | 0 | 0 | 1004 | -32 | 7 | 300 | 997 | -34 | 5 | 274 | 994 | -39 | 5 | 300 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 982 | -43 |  | 324 | 970 | -34 | 9 | 289 | 977 | -47 | 7 | 237 | 973 | -30 | 10 | 258 |
| 983 | -47 | 0 | 0 | 969 | -36 | 8 | 319 | 975 | -47 | 6 | 239 | 974 | -30 | 9 | 253 |
| 985 | -49 |  | 213 | 969 | -38 | 6 | 344 | 973 | -46 | 4 | 253 | 977 | -32 | 5 | 203 |
| 985 | -45 |  | 243 | 971 | -40 | 6 | 357 | 972 | -40 | 6 | 265 | 979 | -32 | 6 | 234 |
| 982 | -45 |  | 265 | 972 | -38 | 8 | 354 | 970 | -40 | 72 | 268 | 981 | -34 | 7 | 180 |
| 979 | -42 |  | 274 | 974 | -39 | 4 | 282 | 970 | -38 | 7 | 268 | 982 | -34 | 4 | 196 |
| 975 | -38 |  | 278 | 975 | -42 | 0 | 0 | 971 | -35 | 11 | 270 | 981 | -36 | 4 | 195 |
| 973 | -34 |  | 293 | 977 | -45 | 0 | 0 | 972 | -32 | 11 | 271 | 979 | -38 | 0 | 0 |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-36.6$ STD DEV $=6.4$ MAX $=-11.0$ AT 1530 GMT ON DAY 5 MIN $=-51.4$ AT 500 GMT ON DAY 25
* theta (K) * MEAN $=237.85$
* PRESSURE (MB) * MEAN $=981.4$ STD DEV $=11.0$ maX $=1009.0$ at 100 GMT ON DAY 19 min $=954.8$ at 1740 gmt on day 5
* WINDS ( $M / \mathrm{S}$ ) * MEAN $=4.9$ STD DEV $=3.2$ RESULTANT $=3.5$ FROM 256 . CONSTANCY $=0.72$ MAX $=22.1$ fROM 209. AT 1520 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 5 & 1 & 0 & 0 & 0 & 0 & 2 & 3 & 4 & 9 & 14 & 19 & 26 & 9 & 5 & 4\end{array}$

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 981 & -46 & 1 & 277\end{array}$
$\begin{array}{lllll}03 & 982 & -46 & 1 & 227\end{array}$
$\begin{array}{lllll}06 & 981 & -46 & 3 & 244\end{array}$
$\begin{array}{lllll}09 & 981 & -41 & 5 & 230\end{array}$
$\begin{array}{lllll}12 & 979 & -37 & 9 & 205\end{array}$
$\begin{array}{lllll}15 & 980 & -41 & 11 & 181\end{array}$
$\begin{array}{lllll}18 & 979 & -41 & 12 & 205\end{array}$
$\begin{array}{lllll}21 & 975 & -39 & 13 & 217\end{array}$ DAY 8
$\begin{array}{lllll}00 & 978 & -35 & 9 & 258\end{array}$

| 03 | 978 | -33 | 7 |
| :--- | :--- | :--- | :--- |
| 257 |  |  |  |

$\begin{array}{lllll}06 & 978 & -32 & 10 & 257\end{array}$
$09 \quad 978-33 \quad 3240$
$\begin{array}{lllll}12 & 977 & -36 & 1 & 243\end{array}$

| 15 | 975 | -33 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}18 & 973 & -33 & 4\end{array} 286$
$\begin{array}{lllll}21 & 972 & -33 & 8 & 300\end{array}$ DAY 15
$00 \quad 984-49$
$\begin{array}{lllll}03 & 985 & -50 & 9 & 199\end{array}$
$\begin{array}{lllll}06 & 983 & -50 & 9 & 216\end{array}$
$\begin{array}{lllll}09 & 981 & -47 & 12 & 217\end{array}$
$\begin{array}{lllll}12 & 977 & -40 & 14 & 216\end{array}$
$\begin{array}{lllll}15 & 972 & -30 & 17 & 222\end{array}$

| 18 | 967 | -26 | 18 |
| :--- | :--- | :--- | :--- |

$21963-2117203$ DAY 22
$00 \quad 974-40 \quad 4293$
$\begin{array}{lllll}03 & 973 & -42 & 3 & 288\end{array}$

| 06 | 972 | -43 | 5 |
| :--- | :--- | :--- | :--- |


| 09 | 972 | -41 | 6 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}12 & 972 & -47 & 6 \\ 217\end{array}$
$\begin{array}{lllll}15 & 972 & -47 & 4 & 246\end{array}$
$\begin{array}{lllll}18 & 971 & -46 & 3 & 260\end{array}$
$21 \quad 968$-43 5251 DAY 29

| 00 | 958 | -27 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 956 & -22 & 12 & 270\end{array}$
$\begin{array}{lllll}06 & 955 & -25 & 12 & 255\end{array}$
$09 \quad 954-23 \quad 9264$
$\begin{array}{lllll}12 & 952 & -24 & 10 & 279\end{array}$
$\begin{array}{lllll}15 & 952 & -31 & 7 & 246\end{array}$
$\begin{array}{llll}18 & 955 & -24 & 8 \\ 246\end{array}$
$21 \quad 956-23 \quad 9253$

PP TT VV DD PP TT VV DD DAY 2
971-35 16213
967-31 11222
$\begin{array}{llll}962 & -31 & 14 & 230\end{array}$
959-27 11213
958-28 9223
955-28 8229
$\begin{array}{llll}955 & -22 \quad 8 & 196\end{array}$
$\begin{array}{llll}956 & -25 & 7 & 189\end{array}$ DAY 9
$\begin{array}{llll}971 & -34 & 7334\end{array}$
970-37 8305
969-38 $5 \quad 300$
968-41 5268
967-43 6216
967-47 3243
$\begin{array}{llll}967 & -48 & 4 & 217\end{array}$
967-49
DAY 16
$\begin{array}{llll}959 & -20 & 15 & 184\end{array}$
$\begin{array}{llll}956 & -20 & 14 & 172\end{array}$
953-19 $10 \quad 172$
$\begin{array}{lllll}949 & -14 & 14 & 153\end{array}$
$\begin{array}{llll}948 & -14 & 15 & 168\end{array}$
$\begin{array}{llll}946 & -15 & 12151\end{array}$
$\begin{array}{llll}947 & -14 & 12 & 139\end{array}$
$\begin{array}{llll}953 & -20 & 13 & 137\end{array}$ DAY 23
966-38 9267
$\begin{array}{llll}964 & -37 & 7 & 265\end{array}$
$\begin{array}{llll}962 & -37 & 7 & 271\end{array}$
$\begin{array}{llll}961 & -36 & 6 & 274\end{array}$
$\begin{array}{llll}960 & -33 & 6 & 271\end{array}$
$960-30 \quad 9274$
961-28 9262
$960-22 \quad 15 \quad 212$ DAY 30
957-27 6251
$\begin{array}{llll}961 & -30 & 8 & 140\end{array}$
$\begin{array}{llll}965 & -30 & 4 & 198\end{array}$

| 966 | -28 | 7 |
| :--- | :--- | :--- |

966-27 6246
968-29 5182
$969-30 \quad 5206$
970-29 6198

DAY 3
957-26 6184
$\begin{array}{llll}960 & -28 & 8 & 168\end{array}$
$\begin{array}{llll}962 & -27 & 9 & 194\end{array}$
$\begin{array}{llll}962 & -26 & 10 & 187\end{array}$
960-26 10217
957-24 14208
956-20 18205
953-22 13236 DAY 10
968-49
969-49
970-51 2234
971-49 3246
970-50 4257
970-48 5270
$970-46 \quad 8 \quad 264$
971-45 4251
DAY 17
$\begin{array}{lllll}957 & -19 & 11 & 156\end{array}$
$\begin{array}{llll}960 & -18 & 12 & 156\end{array}$
$\begin{array}{lllll}964 & -19 & 14 & 175\end{array}$
$\begin{array}{lllll}966 & -18 & 15 & 158\end{array}$
969-19 12129
$\begin{array}{llll}977 & -23 & 8 & 126\end{array}$
$980-22 \quad 4 \quad 172$
978-26 5251 DAY 24
$\begin{array}{llll}964 & -32 & 12 & 180\end{array}$
$\begin{array}{lllll}967 & -37 & 13 & 184\end{array}$
$\begin{array}{lllll}971 & -40 & 11 & 189\end{array}$
$\begin{array}{llll}972 & -39 & 8 & 191\end{array}$
$973-397225$
971-40 2243
970-32 $\quad 5241$
970-27 4255 DAY 31
971-32 7202
$972-35 \quad 7210$
$973-34 \quad 7206$
$\begin{array}{llll}975 & -35 & 7 & 196\end{array}$
$\begin{array}{llll}976 & -35 & 8 & 208\end{array}$
$\begin{array}{llll}976 & -34 & 7 & 212\end{array}$
$\begin{array}{llll}976 & -35 & 10 & 215\end{array}$
978-33 $10 \quad 203$

PP TT VV DD PP TT VV DD PP TT VV DD

## DAY 4 DAY 5

952-22 16229
$\begin{array}{llll}951 & -20 \quad 7198\end{array}$
950-20 6198
950-18 8209
$949-1517223$
951-17 12210
955-23 7175
958 -27 3174
DAY 11
$\begin{array}{lll}971 & -46 & 5 \\ 262\end{array}$ $\begin{array}{llll}971 & -45 & 3 & 262\end{array}$ 971-42 4250 $971-45 \quad 3246$ $972-40 \quad 6234$ $\begin{array}{llll}972 & -42 & 6 & 261\end{array}$ $\begin{array}{llll}972 & -43 & 5 & 253\end{array}$ $\begin{array}{llll}973 & -47 & 3 & 278\end{array}$ DAY 18
$\begin{array}{llll}976 & -20 & 7241\end{array}$ 971-16 12251 967-20 11268 963-19 9265 960-15 8239 958-14 10205 957-13 10208 958-16 8195

DAY 25
970-31 3233 $\begin{array}{llll}972 & -33 & 4 & 125\end{array}$ $\begin{array}{llll}975 & -39 & 4 & 146\end{array}$ $\begin{array}{llll}977 & -38 & 5 & 191\end{array}$ $\begin{array}{llll}977 & -35 & 225\end{array}$ $\begin{array}{lllll}976 & -34 & 3 & 243\end{array}$ $\begin{array}{llll}974 & -35 & 0 & 0\end{array}$ $\begin{array}{llll}972 & -37 & 1313\end{array}$

961-26 4187
$\begin{array}{llll}962 & -28 & 5 & 232\end{array}$
$\begin{array}{llll}961 & -27 & 4 & 274\end{array}$
960-24-8251
959-22 12241
963-28 10163
967-32 4229
969-32 3202 DAY 12
$\begin{array}{llll}974 & -49 & 3 & 206\end{array}$
$\begin{array}{llll}974 & -51 & 3 & 232\end{array}$
$\begin{array}{llll}975 & -52 & 3 & 196\end{array}$
$\begin{array}{llll}976 & -51 & 3 & 217\end{array}$
977-51 4206
978-53 4202
979-51
$980-497222$ DAY 19
959-20 6184
960-22 3203
962-20 1196
963-20 1210
965-19 2219
968-19 5180
970-24 4210
972-26 4233 DAY 26
$\begin{array}{llll}970 & -34 & 6 & 265\end{array}$
$970-30 \quad 9270$
$\begin{array}{llll}971 & -31 & 8 & 274\end{array}$
972 -30 7251
973-29 11277
977-29 10271
$979-30 \quad 9255$
980-29 9 260

PP TT VV DD DAY 7
968-34 6240
$\begin{array}{llll}968 & -32 & 8 & 267\end{array}$
$\begin{array}{llll}969 & -32 & 6 & 213\end{array}$
$\begin{array}{llll}970 & -36 & 4 & 210\end{array}$
$\begin{array}{llll}972 & -34 & 5 & 243\end{array}$
$\begin{array}{llll}974 & -32 & 6 & 241\end{array}$
$\begin{array}{llll}975 & -34 & 646\end{array}$
$\begin{array}{llll}977 & -34 & 8 & 251\end{array}$ DAY 14
983-50 2270
981-44 6254
982-40 $5 \quad 248$
$\begin{array}{llll}982 & -39 & 8 & 257\end{array}$
983-42 5265
982 $-40 \quad 6 \quad 246$
$\begin{array}{llll}981 & -38 & 6 & 247\end{array}$ 982-47

DAY 21
982-30 4262
$\begin{array}{llll}983 & -33 & 3 & 251\end{array}$
$\begin{array}{llll}983 & -37 & 1 & 222\end{array}$
983-41 1182
$\begin{array}{lll}982 & -38 & 275\end{array}$
$\begin{array}{llll}980 & -39 & 0 & 0\end{array}$
$\begin{array}{llll}978 & -36 & 1 & 302\end{array}$
976-36 1258 DAY 28
982-31 $10 \quad 268$ $979-30 \quad 9265$ $\begin{array}{llll}974 & -29 & 8 & 270\end{array}$ $\begin{array}{llll}970 & -30 & 5 & 315\end{array}$ 965-26 $15 \quad 277$ 962-27 10272 $\begin{array}{llll}959 & -30 & 5 & 278\end{array}$

* TEMPERATURE (C) * MEAN MONTHLY SUMMARY
* theta (K) * MEAN $=242.33$
* PRESSURE (MB) * MEAN $=969.7$ STD DEV $=9.4$ MAX $=985.6$ AT 1520 GMT ON DAY 27 MIN $=946.1$ AT 1430 GMT ON DAY 16
* WINDS (M/S) * MEAN $=7.1 \mathrm{STD}$ DEV $=4.0$ RESULTANT $=5.6$ FROM 227. CONSTANCY $=0.79 \mathrm{MAX}=21.8$ FROM 147 . AT 940 GMT DAY 16
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $2.4 \%$

PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 3 & 9 & 18 & 20 & 23 & 19 & 3 & 1 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-33.2$ STD DEV $=8.9$ MAX $=-16.8$ AT 2040 GMT ON DAY 7 MIN $=-53.6$ AT 1720 GMT ON DAY 29
* THETA (K) * MEAN $=241.10$
* PRESSURE (MB) * MEAN $=983.7$ STD DEV $=13.1$ MAX $=1004.7$ AT 1240 GMT ON DAY 22 MIN $=954.9$ AT 1510 GMT ON DAY 9
* WINDS (M/S) * MEAN $=7.5$ STD DEV $=4.0$ RESULTANT $=3.5$ FROM 244. CONSTANCY $=0.47$ MAX $=19.6$ FROM 282 . AT 1010 GMT DAY 7 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $29.6 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{llllllllllllllllllll}\text { PERCENT } & 2 & 1 & 1 & 2 & 7 & 4 & 3 & 2 & 3 & 7 & 16 & 13 & 26 & 7 & 3 & 3\end{array}$


| PP |  |  | DD | PP |  |  | DD |  |  |  |  |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 962 | -23 |  | 167 | 983 | -29 | 11 | 161 | 974 | -36 |  |  | 971 | -27 |  | 149 |
| 966 | -22 |  | 156 | 981 | -28 | 11 | 172 | 974 | -38 |  |  | 969 | -28 |  | 147 |
| 972 | -28 | 5 | 156 | 981 | -25 | 14 | 120 | 976 | -33 |  |  | 967 | -28 |  | 144 |
| 977 | -25 |  | 147 | 980 | -25 | 12 | 116 | 977 | -30 |  |  | 966 | -27 |  | 143 |
| 980 | -30 | 7 | 146 | 979 | -28 | 6 | 119 | 977 | -35 |  |  | 965 | -26 |  | 151 |
| 982 | -30 | 7 | 147 | 977 | -26 |  |  | 975 | -32 | 9 | 75 | 963 | -25 |  | 140 |
| 984 | -31 | 8 | 147 | 976 | -28 |  |  | 974 | -28 | 71 | 120 | 962 | -22 |  | 140 |
| 985 | -29 | 8 | 150 | 974 | -33 |  |  | 972 | -25 | 9 | 133 | 961 | -25 | 10 | 189 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 953 | -36 | 9 | 188 | 969 | -40 | 9 | 172 | 985 | -36 |  |  | 975 | -37 |  | 144 |
| 952 | -39 |  | 219 | 974 | -44 | 3 | 170 | 985 | -37 |  |  | 972 | -35 |  | 187 |
| 951 | -38 | 7 | 189 | 978 | -43 | 6 | 147 | 985 | -40 |  |  | 969 | -36 |  | 188 |
| 951 | -38 | 10 | 187 | 981 | -43 | 7 | 154 | 984 | -38 |  |  | 967 | -37 |  | 188 |
| 953 | -39 |  | 227 | 984 | -43 | 7 | 147 | 984 | -36 |  |  | 965 | -34 |  | 191 |
| 956 | -41 | 4 | 237 | 985 | -44 | 5 | 143 | 981 | -38 | 81 | 170 | 965 | -35 |  | 189 |
| 959 | -39 | 11 | 167 | 985 | -43 | 8 | 164 | 978 | -36 | 71 | 174 | 964 | -40 |  | 5246 |
| 963 | -39 | 10 | 167 | 984 | -38 | 9 | 144 | 976 | -35 | 101 | 144 | 964 | -39 |  | 522 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 978 | -37 |  |  | 979 | -40 | 5 | 241 | 982 | -46 |  |  | 983 | -40 |  |  |
| 977 | -37 |  |  | 979 | -42 |  |  | 982 | -43 |  |  | 983 | -40 |  | 6191 |
| 976 | -39 |  |  | 980 | -45 |  |  | 981 | -42 | 4 | 199 | 983 | -43 |  | 6248 |
| 976 | -41 |  |  | 981 | -47 |  |  | 981 | -45 | 5 | 167 | 983 | -39 |  | 7227 |
| 977 | -40 |  |  | 982 | -49 |  |  | 983 | -43 | 5 | 163 | 983 | -41 |  | 4199 |
| 977 | -38 |  |  | 982 | -50 |  |  | 984 | -43 | 6 | 192 | 984 | -43 |  | 2199 |
| 977 | -37 |  | 6209 | 982 | -50 |  |  | 983 | -44 | 4 | 189 | 983 | -44 |  | 4248 |
| 978 | -38 |  | 6226 | 982 | -46 |  |  | 984 | -45 | 4 | 192 | 982 | -44 |  | 7233 |
|  | DAY | 25 |  |  | DAY |  |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 985 | -40 | 9 | 130 | 970 | -40 |  | 239 | 980 | -37 | 10 | 212 | 981 | -42 |  | 9225 |
| 982 | -39 | 11 | 1132 | 971 | -44 | 3 | 239 | 981 | -38 | 9 | 210 | 982 | -43 |  | 7223 |
| 980 | -38 | 12 | 130 | 970 | -40 | 5 | 251 | 982 | -39 | 7 | 217 | 982 | -45 |  | 8222 |
| 979 | -39 |  | 9126 | 971 | -35 |  | 212 | 982 | -41 | 11 | 222 | 982 | -46 |  | 5229 |
| 977 | -41 |  | 6144 | 973 | -35 | 5 | 189 | 982 | -41 | 11 | 222 | 983 | -44 |  | 4227 |
| 975 | -43 | 4 | 4177 | 974 | -40 | 10 | 171 | 981 | -40 |  | 217 | 983 | -46 |  | 5227 |
| 973 | -42 |  |  | 976 | -38 |  | 192 | 981 | -41 |  | 222 | 982 | -46 |  | 5227 |
| 971 | -43 | 4 | 4234 | 978 | -35 | 11 | 192 | 981 | -41 |  | 225 | 981 | -45 |  | 8223 | MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-38.9$ STD DEV $=8.1$ MAX $=-20.0$ AT 110 GMT ON DAY 4 MIN $=-60.2$ AT 1700 GMT ON DAY 31
* THETA (K) * MEAN $=235.92$
* PRESSURE (MB) * MEAN $=975.7$ STD DEV $=7.8 \mathrm{MAX}=987.5$ AT 1540 GMT ON DAY 24 MIN $=950.3$ AT 700 GMT ON DAY 11
* WINDS (M/S) * MEAN $=6.8$ STD DEV $=2.7$ RESULTANT $=5.5$ FROM 184. CONSTANCY $=0.80$ MAX $=16.8$ FROM 229. AT 1410 GMT DAY 29
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: 0.0 \% WINDS: 33.1 \%




* TEMPERATURE (C) * MEAN $=-42.2$ STD DEV $=8.7$ MAX $=-19.0$ AT 2350 GMT ON DAY 10 MIN $=-59.6$ AT 120 GMT ON DAY 1
* THETA (K) * MEAN $=232.73$
* PRESSURE (MB) * MEAN $=973.9$ STD DEV $=8.8$ MAX $=991.2$ AT 940 GMT ON DAY 29 MIN $=941.8$ AT 30 GMT ON DAY 9 * WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $84.7 \%$
 PERCENT: $0 \begin{array}{lllllllllllll}0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

DAY 1
1 975-46
DAY 22
00 976-26
$\begin{array}{llll}03 & 976 & -24\end{array}$
06 977-28
$09 \quad 979-28$
12 980-27
$\begin{array}{lll}15 & 978 & -26\end{array}$
18 976-25
21 974-28
DAY 29
$00 \quad 978$-25 8360
$\begin{array}{lllll}03 & 978 & -26 & 5 & 358\end{array}$
$\begin{array}{llll}06 & 979 & -24 & 758\end{array}$
$\begin{array}{llll}09 & 981 & -29 & 940\end{array}$
$\begin{array}{lllll}12 & 981 & -28 & 8 & 338\end{array}$
$\begin{array}{lll}15 & 981 & -31\end{array}$
$\begin{array}{lll}18 & 981 & -32\end{array}$
21 980-30

| PP |  |  | DD | PP |  | VV DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 3 |  |  | DAY | 4 |
| 979 | -35 |  |  | 981 | -34 |  |
| 980 | -26 | 8 | 160 | 981 | -35 |  |
| 981 | -26 | 11 | 161 | 978 | -30 |  |
| 983 | -30 | 7 | 130 | 974 | -33 |  |
| 982 | -28 | 14 | 149 | 972 | -42 |  |
| 983 | -28 | 12 | 170 | 970 | -43 |  |
| 983 | -32 |  |  | 969 | -39 |  |
| 983 | -33 |  |  | 968 | -39 |  |
|  | DAY | 10 |  |  | DAY | 11 |
| 964 | -32 | 10 | 88 | 964 | -38 |  |
| 964 | -33 |  |  | 968 | -35 |  |
| 962 | -34 |  |  | 971 | -34 |  |
| 962 | -37 |  |  | 975 | -39 |  |
| 961 | -38 |  |  | 978 | -46 |  |
| 961 | -40 |  |  | 983 | -48 |  |
| 960 | -40 |  |  | 986 | -47 |  |
| 962 | -43 |  |  | 991 | -47 |  |
|  | DAY | 17 |  |  | DAY | 18 |
| 979 | -59 |  |  | 991 | -51 |  |
| 981 | -58 |  |  | 991 | -47 |  |
| 983 | -57 |  |  | 991 | -46 |  |
| 985 | -58 |  |  | 991 | -43 |  |
| 986 | -58 |  |  | 992 | -42 |  |
| 988 | -58 |  |  | 991 | -39 |  |
| 989 | -58 |  |  | 991 | -40 |  |
| 990 | -56 |  |  | 991 | -40 |  |
|  | DAY | 24 |  |  | DAY | 25 |
| 968 | -24 |  |  | 967 | -15 | 5326 |
| 970 | -23 |  |  | 968 | -16 | 4326 |
| 971 | -23 |  |  | 967 | -14 | 921 |
| 972 | -25 |  |  | 965 | -12 | 13358 |
| 969 | -22 |  |  | 965 | -13 | 11358 |
| 963 | -9 | 13 | 97 | 968 | -14 | 9324 |
| 962 | -11 | 12 | 43 | 972 | -18 | 7354 |
| 962 | -12 | 11 | 348 | 974 | -18 | 7358 |


|  |  | $\begin{array}{r} \text { WV } \\ 5 \end{array}$ |
| :---: | :---: | :---: |
| 968 | -37 |  |
| 968 | -39 |  |
| 970 | -35 |  |
| 970 | -33 |  |
| 970 | -30 |  |
| 970 | -30 |  |
| 971 | -32 |  |
| 972 | -33 |  |
|  | DAY | 12 |
| 993 | -46 |  |
| 997 | -47 |  |
| 998 | -47 |  |
| 999 | -47 |  |
| 1000 | -49 |  |
| 1000 | -47 |  |
| 999 | -41 |  |
| 998 | -42 |  |
|  | DAY | 19 |
| 990 | -36 |  |
| 990 | -37 |  |
| 989 | -38 |  |
| 988 | -39 |  |
| 989 | -42 |  |
| 989 | -43 |  |
| 988 | -42 |  |
| 987 | -42 |  |
|  | DAY | 26 |
| 973 | -15 | $9 \quad 9$ |
| 973 | -12 | 13352 |
| 973 | -13 | 11355 |
| 973 | -16 | 10351 |
| 973 | -16 | 11351 |
| 975 | -16 | 10330 |
| 976 | -21 | 6343 |
| 978 | -21 | 5330 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-35.6$ Std dev $=11.3$ max $=-8.5$ at 1510 GMT ON day 24 min $=-60.8$ at 1920 GMt on day 16
* theta (K) * MEAN $=239.14$
* PRESSURE (MB) * MEAN $=977.6$ STD DEV $=8.6$ MAX $=1000.3$ AT 1220 GMT ON DAY 12 MIN $=960.3$ AT 1800 GMT ON DAY 10

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $78.3 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr} \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| OCT | 97 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HR | PP | TT |  | DD | PP |  |  | DD | PP | TT |  | DD |
|  |  | dar | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 975 | -29 |  |  | 970 | -22 | 5 | 23 | 967 | -22 | 10 | 317 |
| 03 | 976 | -29 |  |  | 967 | -21 | 5 | 21 | 968 | -22 | 3 | 315 |
| 06 | 976 | -29 |  |  | 966 | -22 | 4 | 21 | 969 | -24 | 4 | 15 |
| 09 | 976 | -30 |  |  | 964 | -12 | 9 | 358 | 970 | -26 | 2 | 15 |
| 12 | 976 | -30 |  |  | 961 | -12 | 7 | 317 | 972 | -25 | 7 | 307 |
| 15 | 974 | -28 |  |  | 961 | -19 | 8 | 310 | 975 | -25 | 5 | 298 |
| 18 | 973 | -28 |  |  | 964 | -28 | 9 | 320 | 978 | -24 |  |  |
| 21 | 971 | -25 |  | 333 | 966 | -27 | 4 | 302 | 979 | -22 |  |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 990 | -20 | 6 | 29 | 982 | -26 | 5 | 37 | 973 | -18 | 12 | 352 |
| 03 | 990 | -21 |  |  | 982 | -26 | 7 | 334 | 972 | -17 | 10 | 330 |
| 06 | 989 | -23 |  |  | 982 | -20 | 9 | 338 | 971 | -18 | 11 | 338 |
| 09 | 988 | -23 |  |  | 980 | -21 | 9 | 347 | 970 | -20 | 8 | 355 |
| 12 | 986 | -26 |  |  | 979 | -26 | 3 | 16 | 969 | -20 | 7 | 360 |
| 15 | 985 | -26 | 6 | 63 | 979 | -22 | 7 | 333 | 968 | -20 | 9 | 316 |
| 18 | 983 | -27 | 5 | 52 | 977 | -22 | 8 | 344 | 968 | -19 | 11 | 338 |
| 21 | 982 | -27 | 3 | 49 | 975 | -22 | 10 | 5 | 968 | -19 | 10 | 337 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 986 | -20 |  |  | 986 | -23 |  |  | 985 | -27 | 3 | 36 |
| 03 | 986 | -21 |  |  | 986 | -24 |  |  | 984 | -25 |  |  |
| 06 | 987 | -22 |  |  | 985 | -24 |  |  | 984 | -24 |  |  |
| 09 | 987 | -22 |  |  | 985 | -27 |  |  | 984 | -27 |  |  |
| 12 | 987 | -22 |  |  | 985 | -28 |  |  | 983 | -31 |  |  |
| 15 | 987 | -22 | 8 | 29 | 985 | -28 |  |  | 983 | -32 |  |  |
| 18 | 986 | -23 | 6 | 28 | 984 | -28 |  |  | 982 | -35 |  |  |
| 21 | 987 | -24 |  |  | 985 | -27 |  |  | 981 | -32 |  |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 955 | -20 | 11 | 258 | 962 | -17 | 12 | 272 | 966 | -13 | 0 | 0 |
| 03 | 955 | :20 | 10 | 258 | 961 | -16 | 14 | 282 | 969 | -12 | 2 | 81 |
| 06 | 956 | -20 | 9 | 258 | 958 | -14 | 14 | 274 | 970 | -14 | 0 | 0 |
| 09 | 957 | -20 |  | 261 | 956 | -14 | 20 | 333 | 971 | -18 | 0 | 0 |
| 12 | 957 | -22 |  | 279 | 955 | -14 | 18 | 63 | 971 | -23 |  |  |
| 15 | 958 | -24 |  | 282 | 954 | -14 | 18 | 146 | 971 | -27 |  |  |
| 18 | 961 | -22 |  | 253 | 957 | -13 | 9 | 66 | 972 | -24 |  |  |
| 21 | 962 | -18 |  | 257 | 962 | -13 | 8 | 53 | 972 | -21 |  |  |
|  |  | DAY 29 |  |  |  | day 30 |  |  |  | DAY 31 |  |  |
| 00 | 968 | -23 |  |  | 967 | -22 |  |  | 968 | -26 |  |  |
| 03 | 968 | -21 |  |  | 966 | -21 |  |  | 968 | -24 |  |  |
| 06 | 968 | -22 |  |  | 966 | -23 |  |  | 967 | -25 |  |  |
| 09 | 968 | -25 |  |  | 966 | -26 |  |  | 966 | -27 |  |  |
| 12 | 968 | -27 |  |  | 966 | -31 |  |  | 967 | -30 |  |  |
| 15 | 968 | -30 |  |  | 966 | -32 |  |  | 966 | -30 |  |  |
| 18 | 968 | -29 |  |  | 967 | -31 |  |  | 965 | -29 |  |  |
| 21 | 967 | -24 |  |  | 967 | -28 |  |  | 965 | -25 |  |  |

DAY 31
968-26
968-24
967

967-30
965-29
965-25


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-23.2$ std dev $=5.4$ max $=-11.1$ at 740 GMT ON dAY 6 min $=-35.5$ at 1610 GMt on day 19
* theta (K) * MEAN $=251.92$
* PRESSURE (MB) * MEAN $=973.8$ STD DEV $=8.1$ MAX $=991.2$ at 2050 GMT ON DAY 7 MIN $=953.3$ at 1450 GMt ON DAY 23
* WINDS (M/S) * MEAN $=7.7$ STD DEV $=4.0$ RESULTANT $=4.9$ FROM 323. CONSTANCY $=0.64$ MAX $=23.4$ FROM 22. AT 1050 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $58.5 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+1$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 9 & 19 & 8 & 3 & 1 & 0 & 1 & 0 & 0 & 2 & 1 & 5 & 12 & 14 & 9 & 14\end{array}$

HR PP TT VV DD DAY 1

| 00 | 965 | -24 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 965 & -23 & 6 & 223\end{array}$
$\begin{array}{lllll}06 & 964 & -23 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 963 & -28 & 4 & 216\end{array}$
$12 \quad 964-31$
$15 \quad 964-31$
18 966-32
21966 -32
DAY 8
$\begin{array}{lllll}00 & 982 & -10 & 11 & 281\end{array}$
$\begin{array}{llllll}03 & 980 & -11 & 10 & 305\end{array}$
$\begin{array}{lllll}06 & 977 & -8 & 14 & 291\end{array}$
$09 \quad 974-812288$
$\begin{array}{lllll}12 & 973 & -8 & 13 & 285\end{array}$
$\begin{array}{llll}15 & 974 & -10 & 10 \\ 262\end{array}$
$\begin{array}{lllll}18 & 979 & -14 & 8 & 258\end{array}$
$21 \quad 984-12 \quad 7271$
DAY 15
$00 \quad 979-6 \quad 11333$
$\begin{array}{lllll}03 & 978 & -6 & 15 & 313\end{array}$
$\begin{array}{lllll}06 & 977 & -7 & 12 & 281\end{array}$
$\begin{array}{lllll}09 & 978 & -8 & 11 & 288\end{array}$
$\begin{array}{lllll}12 & 979 & -9 & 10 & 289\end{array}$
$\begin{array}{lllll}15 & 980 & -10 & 9 & 274\end{array}$
$\begin{array}{lllll}18 & 982 & -9 & 10 & 289\end{array}$
$\begin{array}{lllll}21 & 983 & -8 & 10 & 278\end{array}$
DAY 22
00
$03 \quad 998-5$
$06 \quad 999-5$
$09 \quad 999-8$
$121000-9$
15 1000-11
$\begin{array}{llll}18 & 1001-11 & 0 & 0\end{array}$
21 1002-10 2163 DAY 29

| 00 | 987 | -11 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 988 & -10 & 7 & 285\end{array}$
$\begin{array}{lllll}06 & 988 & -12 & 3 & 307\end{array}$
$\begin{array}{lllll}09 & 989 & -14 \quad 4303\end{array}$
$\begin{array}{llll}12 \quad 990 & -15 & 4 & 319\end{array}$
$\begin{array}{lllll}15 & 991 & -17 & 3 & 313\end{array}$
$\begin{array}{llll}18 & 991 & -15 & 7 \\ 315\end{array}$
$21 \quad 992-14 \quad 5302$

PP TT VV DD PP TT VV DD
DAY 2
967-30
967-26 4191
968-26
968-26
968-31
966-28
965-32
964-26 DAY 9
$987-9 \quad 9274$
$\begin{array}{lll}988 & -9 & 10 \\ 284\end{array}$
$989-9 \quad 7296$
990-10 11300
$991-1310300$
$992-1110300$
992-10 9291
$991-910288$ DAY 16
$\begin{array}{llll}983 & -8 & 15 & 5\end{array}$
$\begin{array}{llll}984 & -8 & 12 & 350\end{array}$
$985-711350$
$\begin{array}{llll}985 & -9 & 7 & 351\end{array}$
$\begin{array}{llll}984 & -10 & 11 & 345\end{array}$
$\begin{array}{llll}983 & -13 & 5 & 347\end{array}$
983-12 7358
981-11 7358
DAY 23
$1002 \quad-9 \quad 3 \quad 154$
$1002-6$
$1003-1$
$1002-5$
$1003-5$
1004 -4
$1005-5$
1006 -2
DAY 30
993-12 5312
994-11 5289
994-11 4291
994-11 4307
$\begin{array}{llll}994 & -12 & 4 & 317\end{array}$
993-13 $3 \quad 316$
993-12 4324
992-11 4 324

| PP |  | VV DD |
| :---: | :---: | :---: |
|  | DAY | 3 |
| 962 | -26 |  |
| 961 | -24 |  |
| 961 | -26 |  |
| 961 | -28 |  |
| 960 | -29 |  |
| 958 | -25 |  |
| 959 | -26 |  |
| 961 | -26 |  |
|  | DAY | 10 |
| 991 | -9 | 11298 |
| 991 | -9 | 11288 |
| 992 | -10 | 12289 |
| 992 | -11 | 10292 |
| 992 | -13 | 8299 |
| 992 | -15 | 8307 |
| 992 | -14 | 7302 |
| 992 | -12 | 8300 |
|  | DAY | 17 |
| 981 | -9 | 611 |
| 979 | -7 | $6 \quad 14$ |
| 979 | -8 | 6358 |
| 978 | -10 | 4360 |
| 978 | -13 | 64 |
| 978 | -12 | 7358 |
| 977 | -8 | 129 |
| 977 | -7 | 13344 |
|  | DAY | 24 |
| 1005 | -2 |  |
| 1005 | -3 | 3302 |
| 1005 | -5 | 2300 |
| 1005 | -6 |  |
| 1004 | -9 |  |
| 1004 | -10 |  |
| 1003 | -9 |  |
| 1002 | -9 |  |

$1002-9$


PP TT VV DD DAY 7
981-13 10306
$980-11 \quad 9302$
982-11 13286
983-11 12291
984-12 14309
984-13 13277
984-13 13295
984-11 15302
DAY 14
983-11 11302
983-11 11296
$\begin{array}{llll}983 & -9 & 8 & 299\end{array}$
982-10 9299
$\begin{array}{llll}981 & -9 & 10 & 289\end{array}$
980-10 13310
$\begin{array}{llll}979 & -9 & 10 & 310\end{array}$
$\begin{array}{llll}979 & -7 & 15 & 18\end{array}$
DAY 21
$\begin{array}{llll}992 & -5 & 7 & 281\end{array}$
$\begin{array}{llll}992 & -3 & 8 & 303\end{array}$
$\begin{array}{llll}992 & -5 & 6 & 305\end{array}$
$\begin{array}{llll}992 & -7 & 4 & 312\end{array}$
993-10 3310
994-11 3305
995-10
$996-8$
DAY 28
984-12 2300 983-12 4300
982-12
982-12
983-12
984-12
985-11
986-11 5281

* TEMPERATURE (C) * MEAN $=-11.9$ STD DEV $=6.4$ MAX $=-1.1$ AT 540 GMT ON DAY 23 MIN $=-32.4$ AT 1720 GMT ON DAY 1
* THETA (K) * MEAN $=262.47$
* PRESSURE (MB) * MEAN $=984.5$ STD DEV $=11.6$ MAX $=1005.6$ AT 2100 GMT ON DAY 23 MIN $=957.7$ AT 1630 GMT ON DAY 3
* WINDS (M/S) * MEAN $=8.2$ STD DEV $=3.7$ RESULTANT $=6.6$ FROM 298. CONSTANCY $=0.80 \mathrm{MAX}=18.3 \mathrm{FROM} 344$. AT 710 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $28.7 \%$

 Wind direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllllll}\text { PERCENT } & 7 & 2 & 0 & 1 & 0 & 0 & 2 & 2 & 2 & 1 & 2 & 2 & 12 & 40 & 23 & 4\end{array}$

DEC 97


* TEMPERATURE (C) * MEAN $=-8.6$ STD DEV $=4.3$ MAX $=0.8$ AT 230 GMT ON DAY 24 MIN $=-18.9$ AT 1650 GMT ON DAY 10
* THETA (K) * MEAN $=265.60$
* PRESSURE (MB) * MEAN $=987.0$ STD DEV $=6.0$ MAX $=1001.3$ AT 2350 GMT ON DAY 4 MIN $=974.2$ AT 1340 GMT ON DAY 13
* WINDS (M/S) * MEAN $=3.6$ STD DEV $=2.2$ RESULTANT $=2.6$ FROM 289. CONSTANCY $=0.71$ MAX $=10.4$ FROM 312 . AT 2350 GMT DAY 25
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $0.4 \% \quad$ WINDS: $37.1 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 1 & 1 & 1 & 1 & 1 & 0 & 5 & 6 & 4 & 3 & 2 & 5 & 15 & 35 & 19 & 0\end{array}$

JAN 97
HR PP TT VV DD DAY 1
$\begin{array}{lll}00 & 983 & -2\end{array}$
$\begin{array}{lll}03 & 982 & -1\end{array}$
$\begin{array}{lll}06 & 982 & -2\end{array}$
$09 \quad 982-4$
$\begin{array}{lll}12 & 983 & -6\end{array}$
$\begin{array}{lll}15 & 984 & -7\end{array}$
$\begin{array}{lll}18 & 985 & -5\end{array}$
$\begin{array}{lll}21 & 985 & -3\end{array}$
DAY 8
$\begin{array}{lllll}00 & 986 & -6 & 2 & 179\end{array}$
$\begin{array}{lllll}03 & 986 & -6 & 2 & 170\end{array}$
$\begin{array}{lllll}06 & 986 & -6 & 1 & 126\end{array}$
$\begin{array}{lllll}09 & 986 & -7 & 1 & 68\end{array}$
$\begin{array}{lllll}12 & 986 & -7 & 2 & 23\end{array}$
$\begin{array}{lllll}15 & 985 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 985 & -8 & 2\end{array} 314$
$\begin{array}{llll}21 & 985 & -6 & 2\end{array} 322$ DAY 15
$\begin{array}{lllll}00 & 989 & -3 & 7 & 165\end{array}$
$\begin{array}{lllll}03 & 988 & -2 & 7 & 170\end{array}$
$\begin{array}{lllll}06 & 988 & -2 & 6 & 171\end{array}$
$\begin{array}{lllll}09 & 988 & -4 & 3 & 144\end{array}$
$\begin{array}{lllll}12 & 989 & -6 & 2 & 104\end{array}$
$\begin{array}{llll}15 & 989 & -10 & 1303\end{array}$
$\begin{array}{lllll}18 & 990 & -4 & 3 & 160\end{array}$
$\begin{array}{lllll}21 & 990 & -3 & 4 & 215\end{array}$ DAY 22
$\begin{array}{lllll}00 & 994 & -5 & 6 & 212\end{array}$
$\begin{array}{lllll}03 & 994 & -3 & 5 & 181\end{array}$
$\begin{array}{lllll}06 & 994 & -4 & 8 & 153\end{array}$
$\begin{array}{lllll}09 & 994 & -5 & 6 & 161\end{array}$
$\begin{array}{lllll}12 & 995 & -5 & 6 & 142\end{array}$
$\begin{array}{lllll}15 & 996 & -6 & 3 & 158\end{array}$
$\begin{array}{lllll}18 & 997 & -7 & 3 & 123\end{array}$
$\begin{array}{lllll}21 & 997 & -5 & 1 & 89\end{array}$ DAY 29
$\begin{array}{lllll}00 & 992 & -6 & 7 & 140\end{array}$
$\begin{array}{lllll}03 & 991 & -7 & 7 & 146\end{array}$
$\begin{array}{lllll}06 & 991 & -7 & 7 & 150\end{array}$
$\begin{array}{lllll}09 & 991 & -9 & 7 & 163\end{array}$
$\begin{array}{llll}12 & 992 & -10 & 4 \\ 168\end{array}$
$\begin{array}{llll}15 & 991 & -10 & 4 \\ 184\end{array}$
$\begin{array}{lllll}18 & 992 & -9 & 3 & 188\end{array}$

PP TT VV DD DAY 2

$$
\text { DAY } 2
$$

Unt
$986 \quad 0 \quad 2168$
$\begin{array}{llll}986 & -2 & 2195\end{array}$

| 986 | -4 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}987 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}986 & -5 & 3 & 205\end{array}$
$\begin{array}{llll}987 & -4 & 6 & 182\end{array}$
$\begin{array}{llll}987 & -2 & 4 & 179\end{array}$ DAY 9
$\begin{array}{llll}985 & -7 & 4 & 289\end{array}$
$\begin{array}{llll}984 & -5 & 3 & 306\end{array}$
$\begin{array}{llll}984 & -6 & 3 & 268\end{array}$
$\begin{array}{llll}984 & -7 & 3 & 234\end{array}$
$\begin{array}{llll}985 & -8 & 2 & 167\end{array}$
$\begin{array}{llll}986 & -8 & 5 & 179\end{array}$
988-10 6156
$\begin{array}{llll}990 & -9 & 6 & 143\end{array}$ DAY 16
$\begin{array}{llll}990 & -2 & 5 & 184\end{array}$
$\begin{array}{llll}991 & -1 & 2163\end{array}$
$\begin{array}{llll}991 & -2 & 2 & 163\end{array}$
$\begin{array}{llll}991 & -5 & 3 & 189\end{array}$
$\begin{array}{llll}991 & -7 & 2 & 191\end{array}$
$\begin{array}{llll}992 & -7 & 2 & 187\end{array}$
$\begin{array}{llll}993 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}992 & -3 & 0 & 0\end{array}$
DAY 23
$\begin{array}{llll}997 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}996 & -2 & 0 & 0\end{array}$
$\begin{array}{lll}995 & -7 & 2322\end{array}$
$\begin{array}{lll}996 & -9 & 2309\end{array}$
$\begin{array}{llll}997 & -7 & 1 & 317\end{array}$
$\begin{array}{llll}996 & -6 & 1 & 285\end{array}$
$\begin{array}{llll}996 & -7 & 2 & 241\end{array}$
$\begin{array}{llll}996 & -5 & 0 & 0\end{array}$ DAY 30
$\begin{array}{llll}993 & -7 & 4 & 164\end{array}$
$\begin{array}{llll}994 & -6 & 4 & 168\end{array}$
$\begin{array}{llll}994 & -7 & 3 & 227\end{array}$

| 995 | -9 | 3 |
| :--- | :--- | :--- |

$\begin{array}{llll}996 & -8 & 1 & 178\end{array}$
$\begin{array}{llll}997 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}998 & -8 & 2 & 215\end{array}$
$\begin{array}{llll}999 & -7 & 0 & 0\end{array}$

PP TT VV
DAY $\quad 3$

| 986 | -1 | 7 | 171 |
| ---: | ---: | ---: | ---: |
| 985 | 0 | 6 | 185 |
| 984 | 0 | 5 | 177 |
| 983 | -2 | 6 | 160 |
| 982 | -4 | 2 | 178 |
| 982 | -4 | 4 | 179 |
| 983 | -5 | 5 | 151 |
| 984 | -4 | 3 | 139 |
| DAY | 10 |  |  |

$\begin{array}{llll}991 & -9 & 6115\end{array}$
$\begin{array}{llll}991 & -8 & 5 & 133\end{array}$
$\begin{array}{llll}991 & -8 & 2134\end{array}$
$\begin{array}{llll}991 & -9 & 4 & 157\end{array}$
991-12 2168
992-11 2143
992-11 4167
$\begin{array}{llll}992 & -9 & 6 & 134\end{array}$
DAY 17

| 992 | -3 | 0 | 0 |
| :--- | :--- | :--- | :--- |
| 992 |  | 0 | 0 |

$\begin{array}{rrrrr}992 & & 0 & 0 \\ 991 & -2 & 1 & 181\end{array}$
$\begin{array}{llll}991 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}991 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}992 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}993 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}994 & -8 & 1 & 261\end{array}$
DAY 24
$\begin{array}{llll}996 & -7 & 2 & 158\end{array}$
$\begin{array}{llll}996 & -8 & 3 & 160\end{array}$
$\begin{array}{llll}995 & -8 & 3 & 174\end{array}$
$\begin{array}{llll}994 & -8 & 4 & 153\end{array}$
994-10 2182
$\begin{array}{llll}994 & -8 & 4 & 154\end{array}$
$\begin{array}{llll}994 & -7 & 4 & 153\end{array}$
$\begin{array}{llll}993 & -5 & 3 & 177\end{array}$ DAY 31
$\begin{array}{llll}999 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}999 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}999 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}999 & -9 & 0 & 0\end{array}$
1000-10 0 0
$\begin{array}{lll}999 & -9 & 2 \\ 239\end{array}$
$\begin{array}{rrrr}1000 & -9 & 0 & 0 \\ 1000 & -13 & 2 & 174\end{array}$

PP TT VV DD DAY 4 $\begin{array}{lll}985 & -5 & 3 \\ 351\end{array}$ $\begin{array}{lll}984 & -5 & 2324\end{array}$ $\begin{array}{lll}984 & -5 & 2291\end{array}$

| 983 | -6 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}983 & -7 & 4 & 298\end{array}$
$\begin{array}{llll}984 & -8 & 3 & 310\end{array}$
$\begin{array}{llll}984 & -7 & 3 & 326\end{array}$
$\begin{array}{llll}984 & -7 & 3 & 313\end{array}$ DAY 11
$\begin{array}{llll}993 & -9 & 9 & 137\end{array}$
$\begin{array}{llll}993 & -9 & 8 & 125\end{array}$
$\begin{array}{llll}993 & -9 & 7130\end{array}$
$\begin{array}{llll}993 & -9 & 3 & 146\end{array}$
993-10 3171
$\begin{array}{llll}992 & -7 & 1 & 158\end{array}$

| 991 | -9 | 1 |
| :--- | :--- | :--- |

$\begin{array}{llll}991 & -8 & 2 & 198\end{array}$
DAY 18
$\begin{array}{llll}994 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}994 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}993 & -5 & 1 & 265\end{array}$
$\begin{array}{lll}994 & -6 & 265\end{array}$

| 994 | -8 | 2 |
| :--- | :--- | :--- |

$\begin{array}{llll}995 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}996 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}997 & -5 & 3 & 195\end{array}$
DAY 25
$\begin{array}{llll}991 & -7 & 222\end{array}$
$\begin{array}{llll}989 & -7 & 2 & 277\end{array}$
$\begin{array}{llll}987 & -8 & 4 & 267\end{array}$
$\begin{array}{lll}985 & -8 & 286\end{array}$
984-11 1330
984-13 1153
$\begin{array}{llll}985 & -13 & 3 & 167\end{array}$
985-10 0
PP TT WV DD PP TT VV DD

## DAY 6

$\begin{array}{llll}985 & -5 & 1 & 47\end{array}$

## $\begin{array}{llll}985 & -7 & 1 & 56\end{array}$

$\begin{array}{llll}986 & -7 & 1 & 126\end{array}$
$\begin{array}{llll}987 & -7 & 1 & 88\end{array}$
$\begin{array}{llll}988 & -6 & 2 & 7\end{array}$
$\begin{array}{llll}988 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}988 & -6 & 1 & 347\end{array}$
$\begin{array}{llll}989 & -5 & 2333\end{array}$ DAY 12

$$
19
$$

| 998 | -3 | 3 | 160 |
| :--- | :--- | :--- | :--- |


| 998 | -5 | 6 | 129 |
| :--- | :--- | :--- | :--- |


| 998 | -5 | 4 | 113 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}998 & -6 & 4 & 174\end{array}$

## $\begin{array}{llll}998 & -8 & 6 & 182\end{array}$

$\begin{array}{llll}998 & -7 & 6 & 174\end{array}$
$\begin{array}{llll}998 & -6 & 5 & 164\end{array}$
$\begin{array}{llll}998 & -5 & 6 & 161\end{array}$ DAY 26
985-11 2164
$\begin{array}{llll}985 & -9 & 2 & 168\end{array}$
$\begin{array}{llll}986 & -9 & 3 & 172\end{array}$
$\begin{array}{llll}986 & -9 & 4 & 174\end{array}$
987-10 3194
987-11 2233
986-10 3227
$\begin{array}{llll}987 & -9 & 3 & 248\end{array}$

PP TT VV DD DAY 7
$\begin{array}{lll}988 & -6 & 289\end{array}$
$\begin{array}{lll}987 & -5 & 2334\end{array}$
$\begin{array}{lll}986 & -5 & 2341\end{array}$
$\begin{array}{llll}986 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}986 & -6 & 1 & 338\end{array}$
$\begin{array}{llll}986 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}986 & -4 & 0 & 0\end{array}$
986 -6 2175 DAY 14
$\begin{array}{llll}989 & -2 & 6 & 161\end{array}$
$\begin{array}{llll}988 & -1 & 6 & 163\end{array}$
988 -2 7171
$\begin{array}{llll}987 & -2 & 7171\end{array}$
$\begin{array}{llll}987 & -5 & 7 & 167\end{array}$
$\begin{array}{llll}987 & -5 & 6 & 133\end{array}$
$\begin{array}{llll}988 & -3 & 8 & 151\end{array}$
$\begin{array}{llll}988 & -3 & 8 & 153\end{array}$

$$
\text { DAY } 21
$$

$\begin{array}{llll}994 & -7 & 3 & 170\end{array}$
$\begin{array}{llll}994 & -3 & 2 & 161\end{array}$
$\begin{array}{llll}992 & -5 & 1 & 244\end{array}$
$\begin{array}{llll}991 & -7 & 3 & 241\end{array}$
$\begin{array}{lll}991 & -9 & 3220\end{array}$
$\begin{array}{llll}992 & -9 & 1 & 192\end{array}$
993-10 2209
$994 \quad-6 \quad 4213$ DAY 28
$\begin{array}{llll}993 & -6 & 8 & 143\end{array}$
$\begin{array}{llll}993 & -6 & 9 & 130\end{array}$
$\begin{array}{llll}993 & -7 & 8 & 149\end{array}$
994-10 7143
995-10 5154
994-11 5134
994-12 4171

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-6.3$ Std dev $=2.6$ max $=0.8$ at 350 GMT ON dAY 2 MIN $=-13.9$ at 1700 GMt ON dAY 25
* theta (K) * MEAN $=267.60$
* PRESSURE (MB) * MEAN $=990.4$ STD DEV $=4.5$ MAX $=999.9$ at 2140 GMT ON DAY 31 MIN $=981.9$ at 1420 GMT ON DAY 3
* WINDS (M/S) * MEAN $=3.1 \mathrm{STD}$ DEV $=2.2$ RESULTANT $=2.0$ FROM 168 . CONSTANCY $=0.67 \mathrm{MAX}=12.1$ FROM 123 . AT 110 GMT DAY 13
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.4 \%$ WINDS: $3.6 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT


MONTHLY SUMMARY


MAR 97
HR PP TT VV DD DAY 1

| 00 | 978 | -25 | 3 |
| :--- | :--- | :--- | :--- | $\begin{array}{lllll}03 & 978 & -23 & 6 & 272\end{array}$ $\begin{array}{lllll}06 & 978 & -24 & 4 & 292\end{array}$ $\begin{array}{lllll}09 & 978 & -28 & 4 & 284\end{array}$ $\begin{array}{lllll}12 & 979 & -26 & 5 & 291\end{array}$ $\begin{array}{lllll}15 & 980 & -26 & 4 & 310\end{array}$ $\begin{array}{llll}18 & 981 & -21 & 5 \\ 296\end{array}$ $\begin{array}{llll}21 & 983 & -21 & 6310\end{array}$ DAY 8

$\begin{array}{lllll}00 & 980 & -35 & 4 & 182\end{array}$
$\begin{array}{lllll}03 & 980 & -33 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 980 & -33 & 3 & 205\end{array}$
$\begin{array}{lllll}09 & 981 & -34 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 981 & -36 & 1 & 293\end{array}$
$\begin{array}{lllll}15 & 982 & -38 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 983 & -37 & 1 & 298\end{array}$
$\begin{array}{llll}21 & 984 & -33 & 2 \\ 302\end{array}$ DAY 15
$\begin{array}{llll}00 & 989 & -24 & 261\end{array}$
$\begin{array}{llll}03 & 989 & -21 & 2\end{array}$
$\begin{array}{lllll}06 & 988 & -19 & 3 & 196\end{array}$
$\begin{array}{lllll}09 & 988 & -19 & 3 & 157\end{array}$
$\begin{array}{lllll}12 & 987 & -20 & 3 & 153\end{array}$
$\begin{array}{lllll}15 & 986 & -21 & 2 & 153\end{array}$
$\begin{array}{lllll}18 & 986 & -20 & 5 & 147\end{array}$
$\begin{array}{lllll}21 & 985 & -21 & 2 & 150\end{array}$ DAY 22
$\begin{array}{lllll}00 & 985 & -15 & 13 & 130\end{array}$ $\begin{array}{lllll}03 & 987 & -15 & 9 & 136\end{array}$ $\begin{array}{lllll}06 & 988 & -14 & 8 & 125\end{array}$ $\begin{array}{lllll}09 & 989 & -14 & 8 & 123\end{array}$ $\begin{array}{lllll}12 & 991 & -14 & 7 & 133\end{array}$ $\begin{array}{lllll}15 & 991 & -13 & 9 & 139\end{array}$ $\begin{array}{lllll}18 & 992 & -14 & 7 & 130\end{array}$ $\begin{array}{lllll}21 & 993 & -14 & 7 & 144\end{array}$ DAY 29
$\begin{array}{lllll}00 & 957 & -19 & 3 & 26\end{array}$ $\begin{array}{lllll}03 & 956 & -17 & 4 & 208\end{array}$ $\begin{array}{lllll}06 & 955 & -14 & 8 & 194\end{array}$ $\begin{array}{lllll}09 & 954 & -12 & 22 & 129\end{array}$ $\begin{array}{lllll}12 & 957 & -15 & 18 & 130\end{array}$ $\begin{array}{lllll}15 & 963 & -22 & 10 & 129\end{array}$ $\begin{array}{lllll}18 & 967 & -23 & 8 & 149\end{array}$ $\begin{array}{lllll}21 & 969 & -23 & 9 & 134\end{array}$

PP TT VV DD PP TT VV DD DAY 2
984-20 6309
985-19 7302
987-19. 7316
$\begin{array}{llll}988 & -21 & 6 & 320\end{array}$
989-19 6300
989-19 6314
990-19 6298
990-18 2298 DAY 9
$\begin{array}{llll}985 & -30 & 4 & 274\end{array}$
$\begin{array}{llll}986 & -29 & 395\end{array}$
$\begin{array}{llll}986 & -31 & 3 & 289\end{array}$
$\begin{array}{llll}987 & -34 & 3 & 306\end{array}$
$\begin{array}{llll}988 & -34 & 4 & 306\end{array}$
989-36 5303
$\begin{array}{lllll}990 & -35 & 4 & 296\end{array}$
989 -33 3274 DAY 16
983-20 0
982-22 3264
$\begin{array}{llll}981 & -21 & 3 & 251\end{array}$
$\begin{array}{llll}980 & -25 & 389\end{array}$
$\begin{array}{llll}980 & -28 & 4 & 269\end{array}$
$\begin{array}{llll}980 & -28 & 1 & 188\end{array}$
$\begin{array}{llll}982 & -26 & 6 & 146\end{array}$
$\begin{array}{llll}982 & -25 & 0 & 0\end{array}$ DAY 23
$\begin{array}{llll}994 & -15 & 8 & 154\end{array}$
$\begin{array}{llll}994 & -16 & 8 & 156\end{array}$
$\begin{array}{llll}994 & -17 & 5 & 143\end{array}$
$\begin{array}{llll}994 & -19 & 4 & 129\end{array}$
$995-22 \quad 3158$
$\begin{array}{llll}995 & -23 & 2 & 143\end{array}$
$\begin{array}{llll}994 & -23 & 125\end{array}$
$\begin{array}{llll}994 & -23 & 0 & 0\end{array}$ DAY 30
$\begin{array}{llll}969 & -23 & 5 & 146\end{array}$
$\begin{array}{lllll}969 & -18 & 10 & 151\end{array}$
$\begin{array}{llll}969 & -19 & 16 & 149\end{array}$
$\begin{array}{llll}970 & -19 & 12 & 161\end{array}$
$\begin{array}{llll}972 & -20 & 8 & 140\end{array}$
$\begin{array}{llll}971 & -17 & 10161\end{array}$
$\begin{array}{llll}969 & -17 & 7 & 171\end{array}$
968-17 1178

| PP | TT | WV | DD |
| ---: | ---: | ---: | ---: |
| DAY | 3 |  |  |
| 989 | -17 | 0 | 0 |
| 988 | -17 | 2 | 92 |
| 987 | -18 | 2 | 89 |
| 987 | -20 | 2 | 160 |
| 987 | -24 | 1 | 187 |
| 987 | -25 | 0 | 0 |
| 986 | -24 | 1 | 191 |
| 986 | -27 | 1 | 136 | DAY 10

989-33 4298
$\begin{array}{llll}988 & -33 & 3 & 264\end{array}$
$\begin{array}{llll}987 & -33 & 4 & 182\end{array}$
$\begin{array}{llll}986 & -35 & 5 & 161\end{array}$
$\begin{array}{llll}985 & -33 & 6136\end{array}$
$\begin{array}{llll}983 & -32 & 7134\end{array}$
$\begin{array}{llll}982 & -37 & 1 & 174\end{array}$
$\begin{array}{llll}981 & -37 & 243\end{array}$

$$
\text { DAY } 17
$$

982-24 0 0
981-31 2333
$\begin{array}{llll}981 & -35 & 3 & 337\end{array}$
981-37 2359
982-37 0
982-39 2338
$984-40 \quad 1192$
987-42 4161 DAY 24
994-25 2170
994-28 0
995-27 0
995-28 2163
996-26 1143
996-25 4147
997-25 6158
998 -26 4157 DAY 31
968-15 20142
$974-2614139$
978 -27 19161
980-27 15143
$\begin{array}{lll}981 & -28 & 10 \\ 129\end{array}$
$\begin{array}{llll}980 & -30 & 3 & 168\end{array}$
$\begin{array}{llll}978 & -34 & 2 & 181\end{array}$

PP TT WV DD PP TT WV DD DAY 4
985-29 0 0
984-26 0 0
983-27 0
$\begin{array}{llll}982 & -31 & 0 & 0\end{array}$
$\begin{array}{llll}981 & -32 & 1 & 327\end{array}$
980-33 2326
$\begin{array}{llll}979 & -31 & 4 & 178\end{array}$
979 -29 1310
DAY 11
979-35 0 977-35 2288 976-37 2354 $976-40 \quad 3 \quad 333$ 975-41 1302 974-43 0 973-43 0 972 -39 1255 DAY 18
988-40 3144 $\begin{array}{llll}989 & -37 & 2137\end{array}$ $\begin{array}{lllll}990 & -39 & 3 & 123\end{array}$ $991-41 \quad 3153$ 991 -39 5137 $\begin{array}{llll}991 & -39 & 6 & 136\end{array}$ $\begin{array}{llll}991 & -38 & 7 & 143\end{array}$ $\begin{array}{llll}992 & -38 & 8 & 137\end{array}$ DAY 25
998-24 6142 999-25 6151 1000-25 5154 $1000-25 \quad 7163$ 1001-26 8157 $1001-27 \quad 6157$ $\begin{array}{llll}1001 & -30 & 5 & 160\end{array}$ 1001-32 6171

DAY 5
979-28 0
$979-23285$
980-25 0
$\begin{array}{llll}981 & -28 & 2 & 172\end{array}$
981-31 0
981-28 0
980-28 1260
$980-25 \quad 3 \quad 261$ DAY 12
$\begin{array}{llll}969 & -34 & 385\end{array}$
966-27 3344
964-28 4310
963-33 3219
$\begin{array}{llll}962 & -27 & 0 & 0\end{array}$
$\begin{array}{llll}962 & -27 & 4 & 194\end{array}$
962-30 3224
962-24 0 0 DAY 19
992-35 10149
$\begin{array}{llll}992 & -34 & 9 & 150\end{array}$
$\begin{array}{llll}992 & -34 & 8 & 140\end{array}$
$\begin{array}{llll}992 & -37 & 9 & 139\end{array}$
$\begin{array}{llll}991 & -34 & 7 & 168\end{array}$
989-31 $\quad 7157$
$\begin{array}{llll}990 & -35 & 7144\end{array}$
989-31 9.157 DAY 26
$\begin{array}{llll}1001 & -34 & 5 & 168\end{array}$
$1000-34 \quad 4158$
$\begin{array}{llll}998 & -38 & 3 & 174\end{array}$
997-39 1209
995-41 2269
993-37 7267
$\begin{array}{llll}992 & -37 & 5 & 331\end{array}$
$991-41 \quad 1324$

PP TT WV DD DAY 6
980-16 6196
978-15 5223
979-16 3108
979-15 6196
980-15 6196
$\begin{array}{llll}981 & -17 & 5 & 160\end{array}$
$\begin{array}{llll}981 & -18 & 4 & 181\end{array}$
$\begin{array}{llll}981 & -23 & 3 & 187\end{array}$
DAY 13
962-22 3189
961-20 8216
961-21 6206
962-21 5258
962-17 7208
963-15 7208
$963-13 \quad 9210$
963-12 11208
DAY 20
989-32 8160
$\begin{array}{llll}988 & -31 & 9 & 161\end{array}$
$\begin{array}{llll}987 & -32 & 8 & 146\end{array}$
$\begin{array}{llll}985 & -32 & 7171\end{array}$
$\begin{array}{llll}984 & -34 & 6157\end{array}$
$\begin{array}{llll}984 & -32 & 9 & 126\end{array}$
$\begin{array}{llll}983 & -30 & 5 & 137\end{array}$
983-27 1154
DAY 27
989-41 0 0
989-45 0
$\begin{array}{llll}988 & -48 & 2171\end{array}$
987-45 0
987-42 0
986-46 0 0
984-45 2251
983-47 0

PP TT WV DD DAY 7
981-25 1170
$\begin{array}{llll}981 & -26 & 112\end{array}$
$\begin{array}{lll}980 & -25 & 1275\end{array}$
$\begin{array}{llll}980 & -30 & 2 & 343\end{array}$
$\begin{array}{llll}980 & -30 & 4 & 305\end{array}$
979 -31 3300
979 -32 2299
$\begin{array}{llll}980 & -34 & 1 & 144\end{array}$
DAY 14
$\begin{array}{llll}965 & -9 & 6154\end{array}$
967-14 9136
972-18 13125
977 -20 10133
$\begin{array}{llll}981 & -21 & 723\end{array}$
$\begin{array}{lll}984 & -25 & 2109\end{array}$
$\begin{array}{lll}987 & -30 & 279\end{array}$
989-24 3234 DAY 21
982-24 1153
$\begin{array}{llll}982 & -21 \quad 4161\end{array}$
$\begin{array}{llll}981 & -17 & 8 & 157\end{array}$
$\begin{array}{llll}982 & -17 & 5 & 146\end{array}$
$\begin{array}{llll}983 & -19 & 2\end{array}$
$\begin{array}{llll}985 & -19 & 7127\end{array}$
$\begin{array}{llll}985 & -18 & 8 & 146\end{array}$
985-16 9144
DAY 28
981-42 3212
978-42 0
974-32 4227
$\begin{array}{llll}970 & -27 & 7 & 229\end{array}$
$\begin{array}{llll}967 & -23 & 10 & 253\end{array}$
964-21 13236
960-19 12229
957-18 13219

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-27.0$ STD DEV $=8.4$ MAX $=-8.1$ AT 2240 GMT ON DAY 13 MIN $=-48.1$ AT 630 GMT ON. DAY 27
* THETA (K) * MEAN $=247.41$
* PRESSURE (MB) * MEAN $=982.1$ STD DEV $=10.1$ MAX $=1001.4$ AT 2050 GMT ON DAY 25 MIN $=954.0$ AT 910 GMT ON DAY 29
* WINDS (M/S) * MEAN $=4.5$ STD DEV $=3.9$ RESULTANT $=2.6$ FROM 168. CONSTANCY $=0.57$ MAX $=26.5$ FROM 120. AT 850 GMT DAY 29
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \% \quad$ WINDS: $0.0 \%$

 $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 1 & 0 & 0 & 0 & 1 & 3 & 22 & 21 & 9 & 8 & 5 & 3 & 6 & 11 & 6\end{array}$

| HR | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { VV } \\ 1 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 3 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 4 \end{array}$ | DD |  |  | $\begin{array}{r} \text { VV } \\ 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 969 | -25 | 4 | 213 | 979 | -27 | 5 | 156 | 983 | -30 | 5 | 142 | 991 | -19 |  |  | 986 | -21 | 5 | 194 | 980 | -14 |  | 974 | -10 |  |
| 03 | 963 | -18 | 17 | 234 | 981 | -27 | 12 | 146 | 984 | -30 | 4 | 108 | 990 | -18 |  |  | 982 | -18 | 7 | 212 | 978 | -12 |  | 972 | -10 |  |
| 06 | 963 | -14 | 9 | 150 | 982 | -27 | 10 | 154 | 986 | -32 | 3 | 97 | 990 | -18 | 5 | 154 | 978 | -12 | 10 | 222 | 979 | -18 |  | 971 | -9 18 | 137 |
| 09 | 965 | -16 | 13 | 150 | 981 | -27 | 3 | 208 | 989 | -33 |  |  | 989 | -21 | 3 | 205 | 973 | -12 | 5 | 215 | 981 | -24 |  | 971 | -10 14 | 120 |
| 12 | 970 | -24 | 6 | 134 | 979 | -20 | 8 | 184 | 991 | -32 |  |  | 989 | -18 | 3 | 194 | 971 | -7 | 22 | 149 | 983 | -27 |  | 974 | -15 |  |
| 15 | 972 | -26 | 0 | 0 | 979 | -21 | 9 | 133 | 991 | -30 |  |  | 989 | -16 | 8 | 161 | 977 | -25 | 16 | 115 | 982 | -25 |  | 977 | -17 |  |
| 18 | 973 | -21 | 11 | 137 | 980 | -30 | 0 | 0 | 991 | -18 |  |  | 988 | -22 | 3 | 146 | 983 | -27 | 7 | 140 | 979 | -19 |  | 978 | -14 |  |
| 21 | 976 | -22 | 10 | 123 | 980 | -28 | 0 | 0 | 991 | -19 |  |  | 987 | -25 | 3 | 191 | 982 | -25 |  |  | 976 | -11 |  | 979 | -14 |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 981 | -18 |  |  | 994 | -28 |  |  | 988 | -37 |  |  | 981 | -43 |  |  | 978 | -41 |  |  | 984 | -33 |  | 981 | -33 |  |
| 03 | 983 | -19 |  |  | 994 | -28 |  |  | 987 | -35 |  |  | 980 | -44 |  |  | 978 | -41 |  |  | 985 | -36 |  | 981 | -37 | 1 |
| 06 | 985 | -20 |  |  | 994 | -29 |  |  | 987 | -36 |  |  | 979 | -44 |  |  | 979 | -37 |  |  | 984 | -31 |  | 981 | -33 |  |
| 09 | 987 | -20 |  |  | 993 | -30 |  |  | 986 | -38 |  |  | 978 | -44 |  |  | 980 | -40 |  |  | 984 | -33 |  | 982 | -34 |  |
| 12 | 989 | -22 |  |  | 991 | -31 |  |  | 985 | -38 |  |  | 977 | -38 |  |  | 981 | -34 |  |  | 983 | -32 |  | 982 | -33 |  |
| 15 | 992 | -24 |  |  | 990 | -30 |  |  | 984 | -40 |  |  | 976 | -34 |  |  | 982 | -34 |  |  | 983 | -34 |  | 982 | -33 |  |
| 18 | 994 | -25 |  |  | 989 | -34 |  |  | 983 | -42 |  |  | 976 | -41 |  |  | 983 | -35 |  |  | 982 | -29 |  | 984 | -35 |  |
| 21 | 994 | -27 |  |  | 989 | -33 |  |  | 982 | -40 |  |  | 977 | -43 |  |  | 984 | -37 |  |  | 981 | -32 |  | 985 | -32 |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY 20 |  |  | DAY 21 | - |
| 00 | 986 | -30 |  |  | 990 | -26 |  |  | 995 | -25 |  |  | 1008 | -31 |  |  | 1013 | -35 |  |  | 1008 | -38 |  | 1005 | -46 |  |
| 03 | 987 | -26 |  |  | 991 | -23 |  |  | 996 | -24 |  |  | 1009 | -34 |  |  | 1011 | -34 |  |  | 1008 | -39 |  | 1005 | -47 |  |
| 06 | 988 | -25 |  |  | 992 | -25 |  |  | 995 | -32 |  |  | 1010 | -34 |  |  | 1009 | -33 |  |  | 1007 | -41 |  | 1004 | -47 |  |
| 09 | 989 | -26 |  |  | 992 | -24 |  |  | 995 | -29 |  |  | 1011 | -34 |  |  | 1008 | -31 |  |  | 1007 | -42 |  | 1003 | -46 |  |
| 12 | 990 | -28 |  |  | 992 | -27 |  |  | 996 | -29 |  |  | 1012 | -37 |  |  | 1007 | -31 |  |  | 1007 | -43 |  | 1003 | -46 |  |
| 15 | 991 | -31 |  |  | 993 | -35 |  |  | 998 | -29 |  |  | 1013 | -38 |  |  | 1008 | -31 |  |  | 1006 | -45 |  | 1002 | -46 |  |
| 18 | 991 | -28 |  |  | 994 | -31 |  |  | 1001 | -30 |  |  | 1014 | -38 |  |  | 1008 | -35 |  |  | 1005 | -45 |  | 1001 | -47 |  |
| 21 | 990 | -31 |  |  | 995 | -35 |  |  | 1004 | -30 |  |  | 1014 | -36 |  |  | 1008 | -36 |  |  | 1005 | -46 |  | 1001 | -46 |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY 27 |  |  | DAY 28 | - |
| 00 | 1000 | -44 |  |  | 998 | -49 |  |  | 991 | -38 |  |  | 996 | -43 |  |  | 970 | -19 |  |  | 983 | -39 |  | 982 | -26 | - |
| 03 | 1000 | -47 |  |  | 997 | -47 |  |  | 988 | -39 |  |  | 997 | -41 |  |  | 968 | -22 |  |  | 980 | -38 |  | 983 | -25 |  |
| 06 | 999 | -48 |  |  | 997 | -44 |  |  | 988 | -43 |  |  | 995 | -37 |  |  | 974 | -40 |  |  | 977 | -31 |  | 989 | -31 | I |
| 09 | 999 | -47 |  |  | 998 | -42 |  |  | 987 | -44 |  |  | 991 | -31 |  |  | 982 | -41 |  |  | 976 | -23 |  | 992 | -35 | 1 |
| 12 | 998 | -46 |  |  | 997 | -39 |  |  | 987 | -47 |  |  | 986 | -28 |  |  | 987 | -40 |  |  | 975 | -20 |  | 991 | -38 |  |
| 15 | 998 | -45 |  |  | 995 | -37 |  |  | 987 | -47 |  |  | 981 | -24 |  |  | 989 | -40 |  |  | 975 | -23 |  | 989 | -37 |  |
| 18 | 998 | -42 |  |  | 994 | -35 |  |  | 989 | -47 |  |  | 977 | -24 |  |  | 988 | -43 |  |  | 976 | -25 |  | 987 | -44 |  |
| 21 | 997 | -48 |  |  | 993 | -37 |  |  | 992 | -49 |  |  | 973 | -22 |  |  | 986 | $-43$ |  |  | 979 | -25 |  | 985 | -45 |  |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 984 | -47 |  |  | 981 | -42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 983 | -47 |  |  | 980 | -41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 984 | -48 |  |  | 980 | -47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 984 | -47 |  |  | 982 | -46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| 12 | 984 | -47 |  |  | 982 | -31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 984 | -44 |  |  | 982 | -25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 984 | -47 |  |  | 983 | -28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -42 |  |  | 983 | -27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-32.1$ STD DEV $=10.0$ MAX $=-7.0$ AT 1150 GMT ON DAY 5 MIN $=-49.8$ AT 2130 GMT ON DAY 24
* THETA (K) * MEAN = 241.91
* PRESSURE (MB) * MEAN $=987.9$ STD DEV $=10.6$ MAX $=1014.1$ AT 1900 GMT ON DAY 18 MIN $=963.0$ AT 250 GMT ON DAY 1 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT O GMT DAY O * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \% \quad$ WINDS: $85.8 \%$ WIND SPEED (M/S): 0-2 $2-4 \quad 4-6 \quad 6-8 \quad 8-1010-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad+$ $\begin{array}{lccccccccccccccccc}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{llllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


```
PP TT VV DD PP TT VV DD
    DAY }
962-15 18 129
961-14 12 154
959-14 6 125
960-15 0 0
960-13 25 119
964-16 15 122
967-18
968-20
    DAY 11
975 -42
975-36
976-44
977-47
978-46
979-47
981-49
982 -51
DAY }1
980-15
975-15
974-13
972-11
970-12
968-10
968-10
968-10
    DAY }2
982-33
985 -35
985 -34
983-35
981-36
978-28
976-24
973-22
```

| PP |  | VV DD |
| :---: | :---: | :---: |
|  | DAY | 5 |
| 967 | -16 |  |
| 966 | -16 |  |
| 967 | -14 |  |
| 968 | -17 | 15125 |
| 973 | -24 |  |
| 974 | -25 |  |
| 976 | -23 |  |
| 977 | -24 |  |
|  | DAY | 12 |
| 983 | -50 |  |
| 983 | -46 |  |
| 984 | -47 |  |
| 986 | -46 |  |
| 987 | -45 |  |
| 988 | -47 |  |
| 988 | -47 |  |
| 989 | -44 |  |
|  | DAY | 19 |
| 969 | -11 |  |
| 969 | -12 |  |
| 972 | -16 |  |
| 975 | -16 |  |
| 977 | -15 |  |
| 978 | -18 |  |
| 979 | -20 |  |
| 979 | -22 |  |
|  | DAY | 26 |
| 972 | -25 |  |
| 971 | -21 | 7158 |
| 971 | -18 | 5163 |
| 972 | -16 | 6171 |
| 976 | -17 | 5171 |
| 982 | -17 | 24132 |
| 986 | -24 | 11151 |
| 988 | -22 | 13156 |

PP TT VV DD
DAY 6
$977-25$

PP TT VV DD DAY 7
972-34
973-34
973-30
976-29
979-27
980-24
981-26
982-27
DAY 14
987-33
986-37
987-41
988-41
991-40
993-43
994-47
995 -45
DAY 21
991-35
991-37
991-40
$990-42$
989-42
987-35
986-44
985-41
DAY 28
985-26
980-19
976-18
970-18
967-14
964-15
964-12
963-15

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-28.5$ StD DEV $=11.5$ MAX $=-9.1$ AT 1410 GMT ON DAY 18 MIN $=-51.5$ AT 2000 GMt ON DAY 11
* theta (K) * MEAN $=246.24$
* PRESSURE (MB) * MEAN $=978.0$ STD DEV $=8.9$ MAX $=995.7$ AT 2220 GMT ON DAY 14 MIN $=955.0$ AT 1000 GMT ON DAY 29
* $\operatorname{WINDS}(\mathrm{M} / \mathrm{S}) *$ MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $84.7 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$



* temperature ( $C$ ) * mean $=-27.4$ Std dev $=11.1$ max $=-6.5$ at 1100 GMT ON DAY 13 MIN $=-52.9$ at 1210 GMT OW DAY 28
* THETA (K) * MEAN $=246.44$
* PRESSURE (MB) * MEAN $=991.0$ STD DEV $=13.8$ MAX $=1014.7$ AT 540 GMT ON DAY 22 MIN $=957.1$ AT 1210 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 18 -20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT


DAY 1
$00 \quad 989-44$
$\begin{array}{lll}03 & 987 & -42\end{array}$
$06 \quad 986-47$
$09 \quad 985-50$
$\begin{array}{ll}12 & 985\end{array}-53$
$\begin{array}{ll}15 & 985\end{array}-53$
$18 \quad 985-43$
$21 \quad 984-39$
DAY 8
00 972-24
03 976-22
06 978-22
09 979-22
$12-977-24$
$15-975-26$
18 974-24
21 975-24
DAY 15
00 967-27
$\begin{array}{llll}03 & 970 & -34\end{array}$
06 972-37
$09 \quad 976$-35
12 979-27
$\begin{array}{lll}15 & 980 & -31\end{array}$
18 982-26
21 982-24

|  | 00 |
| :--- | :--- |
|  | $992-48$ |

$\begin{array}{llll}03 & 993 & -50\end{array}$
$06 \quad 992-50$
09 992-50
$12 \quad 990-51$
$\begin{array}{lll}15 & 988 & -49\end{array}$
$\begin{array}{lll}18 & 985 & -46\end{array}$
21 982-46
DAY 29
$00 \quad 987$-44
$\begin{array}{llll}03 & 986 & -49\end{array}$
$06 \quad 985-47$
$09 \quad 984-53$
$\begin{array}{lll}12 & 983 & -51\end{array}$
$\begin{array}{ll}15 & 982-53\end{array}$
18 979-52
$21-977-54$



MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-35.1$ STD DEV $=10.9$ MAX $=-11.2$ at 1820 GMT ON DAY 3 MIN $=-60.5$ AT 900 gMt ON DAY 30
* theta (K) * MEAN $=239.28$
* PRESSURE (MB) * MEAN $=982.7$ STD DEV $=9.0$ MAX $=1000.1$ AT 1420 GMT ON DAY 24 MIN $=949.2$ AT 540 GMT ON DAY 11 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18-20 $20-25$ 25-30 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

* TEMPERATURE (C) * MEAN $=-33.6$ STD DEV $=12.4 \mathrm{MAX}=-12.9$ AT 1530 GMT ON DAY 10 MIN $=-56.9$ AT 720 GMT ON DAY 28
* THETA (K) * MEAN $=240.90$
* PRESSURE (MB) * MEAN $=981.4$ STD DEV $=9.2$ MAX $=1000.0$ AT 0 GMT ON DAY 29 MIN $=950.0$ AT 2240 GMT ON DAY 8
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

| HR | PP | TT VV | DD PP | tt V | V DD | PP | TT V |  | DD | PP |  | DD | PP | IT VV | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY 1 |  | DAY | 2 |  | DAY | 3 |  |  | DAY 4 |  |  | DAY 5 |  |  | DAY | 6 |  |  | dar | 7 |  |
| 00 | 982 | -32 | 979 | -19 |  | 985 | -19 |  |  | 986 | -23 |  | 978 | -26 |  | 983 | -19 |  |  | 983 | -21 |  |  |
| 03 | 981 | -27 | 980 | -19 |  | 988 | -19 |  |  | 985 | -23 |  | 978 | -26 |  | 983 | -22 |  |  | 980 | -24 |  |  |
| 06 | 980 | -23 | 980 | -18 |  | 988 | -20 |  |  | 983 | -22 |  | 978 | -23 |  | 984 | -20 |  |  | 981 | -26 |  |  |
| 09 | 979 | -22 | 982 | -20 |  | 989 | -22 |  |  | 981 | -24 |  | 979 | -24 |  | 984 | -22 |  |  | 980 | -26 |  |  |
| 12 | 979 | -19 | 982 | -16 |  | 990 | -22 |  |  | 980 | -24 |  | 979 | -22 |  | 983 | -25 |  |  | 981 | -25 |  |  |
| 15 | 978 | -19 | 983 | -15 |  | 990 | -24 |  |  | 978 | -28 |  | 980 | -22 |  | 982 | -20 |  |  | 981 | -31 |  |  |
| 18 | 979 | -21 | 983 | -15 |  | 989 | -24 |  |  | 978 | -31 |  | 981 | -19 |  | 983 | -22 |  |  | 982 | -29 |  |  |
| 21 | 979 | -21 | 985 | -18 |  | 987 | -23 |  |  | 978 | -30 |  | 982 | -19 |  | 983 | -21 |  |  | 983 | -29 |  |  |
|  |  | DAY 8 |  | DAY | 9 |  | DAY 10 | 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY | 13 |  |  | DAY |  |  |
| 00 | 985 | -25 | 988 | -35 |  | 975 | -32 |  |  | 969 | -42 |  | 1002 | -40 |  | 1000 | -50 |  |  | 986 | -54 |  |  |
| 03 | 986 | -25 | 989 | -40 |  | 971 | -33 |  |  | 975 | -37 |  | 1004 | -39 |  | 998 | -51 |  |  | 985 | -56 |  |  |
| 06 | 987 | -31 | 989 | -40 |  | 968 | -34 |  |  | 979 | -32 |  | 1005 | -37 |  | 994 | -53 |  |  | 985 | -57 |  |  |
| 09 | 986 | -34 | 988 | -38 |  | 966 | -35 |  |  | 983 | -33 |  | 1006 | -41 |  | 993 | -51 |  |  | 985 | -55 |  |  |
| 12 | 986 | -37 | 986 | -36 |  | 963 | -34 |  |  | 987 | -33 |  | 1006 | -42 |  | 992 | -51 |  |  | 986 | -53 |  |  |
| 15 | 986 | -38 | 984 | -34 |  | 960 | -35 |  |  | 991 | -35 |  | 1005 | -41 |  | 990 | -51 |  |  | 986 | -54 |  |  |
| 18 | 987 | -37 | 982 | -33 |  | 960 | -33 |  |  | 995 | -39 |  | 1003 | -46 |  | 988 | -52 |  |  | 985 | -52 |  |  |
| 21 | 987 | -35 | 978 | -34 |  | 963 | -34 |  |  | 999 | -38 |  | 1002 | -47 |  | 987 | -53 |  |  | 985 | -50 |  |  |
|  |  | DAY 15 |  | DAY 16 |  |  | DAY 1 | 17 |  |  | DAY 18 |  |  | DAY 19 |  |  |  | 20 |  |  | DAY |  |  |
| 00 | 985 | -49 | 982 | -40 |  | 988 | -41 |  |  | 999 | -44 |  | 999 | -40 |  | 994 | -51 |  |  | 995 | -37 |  |  |
| 03 | 985 | -45 | 981 | -40 |  | 989 | -41 |  |  | 1000 | -43 |  | 997 | -44 |  | 995 | -50 |  |  | 994 | -37 |  |  |
| 06 | 985 | -48 | 981 | -41 |  | 991 | -43 |  |  | 1000 | -45 |  | 996 | -38 |  | 995 | -51 |  |  | 993 | -40 |  |  |
| 09 | 985 | -45 | 982 | -41 |  | 992 | -41 |  |  | 1001 | -49 |  | 996 | -42 |  | 996 | -52 |  |  | 991 | -40 |  |  |
| 12 | 985 | -45 | 983 | -42 |  | 993 | -42 |  |  | 1001 | -45 |  | 994 | -42 |  | 996 | -49 |  |  | 990 | -33 |  |  |
| 15 | 984 | -42 | 984 | -44 |  | 995 | -41 |  |  | 1001 | -43 |  | 994 | -44 |  | 997 | -44 |  |  | 990 | -31 |  |  |
| 18 | 984 | -44 | 985 | -41 |  | 997 | -45 |  |  | 1000 | -37 |  | 993 | -42 |  | 997 | -44 |  |  | 988 | -29 |  |  |
| 21 | 983 | -41 | 987 | -42 |  | 998 | -44 |  |  | 999 | -39 |  | 993 | -47 |  | 996 | -40 |  |  | 988 | -23 |  |  |
|  |  | DAY 22 |  | DAY 23 |  |  | DAY 2 | 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY | 27 |  |  | DAY |  |  |
| 00 | 988 | -18 | 977 | -12 |  | 980 | -9 |  |  | 984 | -6 |  | 986 | -7 |  | 982 | -20 |  |  | 985 | -29 |  |  |
| 03 | 988 | -15 | 975 | -9 |  | 983 | -12 |  |  | 983 | -6 |  | 985 | -8 |  | 980 | -18 |  |  | 985 | -25 |  |  |
| 06 | 989 | -17 | 974 | -7 |  | 985 | -13 |  |  | 983 | -6 |  | 985 | -11 |  | 981 | -19 |  |  | 986 | -24 |  |  |
| 09 | 987 | -20 | 975 | -9 |  | 982 | -6 |  |  | 982 | -6 |  | 984 | -11 |  | 986 | -20 |  |  | 987 | -24 |  |  |
| 12 | 984 | -16 | 976 | -10 |  | 979 | -4 |  |  | 984 | -7 |  | 984 | -17 |  | 989 | -27 |  |  | 987 | -19 |  |  |
| 15 | 981 | -13 | 976 | -10 |  | 979 | -4 |  |  | 985 | -7 |  | 985 | -16 |  | 989 | -23 |  |  | 987 | -21 |  |  |
| 18 | 979 | -14 | 977 | -8 |  | 980 | -5 |  |  | 987 | -7 |  | 985 | -18 |  | 987 | -28 |  |  | 987 | -23 |  |  |
| 21 | 978 | -14 | 977 | -8 |  | 982 | -6 |  |  | 986 | -8 |  | 985 | -15 |  | 986 | -28 |  |  | 987 | -25 |  |  |
|  |  | DAY 29 |  | DAY 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 988 | -24 | 989 | -24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 989 | -23 | 988 | -22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 989 | -23 | 986 | -19 |  |  |  |  |  |  |  | . |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 990 | -24 | 984 | -20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 989 | -27 | 981 | -20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 989 | -27 | 980 | -20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 989 | -25 | 979 | -21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  | -25 |  | -20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-29.4$ StD dev $=13.3$ MAX $=-3.5$ at 1150 GMT ON DAY 24 MIN $=-56.8$ at 540 GMt ON DAY 14
* THETA (K) * MEAN $=244.81$
* PRESSURE (MB) * MEAN $=985.8$ STD DEV $=7.8$ MAX $=1006.5$ AT 1050 GMT ON DAY 12 MIN $=959.4$ AT 1600 GMT ON DAY 10
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=\star * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* TEMPERATURE (C) * MEAN $=-19.3$ STD DEV $=6.5$ MAX $=-5.6$ AT 830 GMT ON DAY 2 MIN $=-37.4$ AT 1410 GMT ON DAY 17
* THETA (K) * MEAN $=255.17$
* PRESSURE (MB) * MEAN $=982.6$ STD DEV $=7.4$ MAX $=996.9$ AT 1930 GMT ON DAY 7 MIN $=969.3$ AT 1900 GMT ON DAY 31 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** at 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND direction: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


[^2]

* TEMPERATURE (C) * MEAN $=-6.5$ STD DEV $=3.9$ MAX $=0.4$ AT 540 GMT ON DAY 24 MIN $=-16.4$ AT 1710 GMT ON DAY 10
* THETA (K) * MEAN $=267.14$
* PRESSURE (MB) * MEAN $=993.6$ STD DEV $=6.0$ MAX $=1009.0$ AT 1730 GMT ON DAY 4 MIN $=980.2$ AT 1530 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM O. CONSTANCY $=0.00$ MAX =***** FROM***** AT O GMT DAY O * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW PERCENT


```
HR PP TT VV DD PP TT VV DD PP TT VV DD
    DAY 1
    DAY 2
```

    DAY 9
    DAY 10
    $\begin{array}{llll}832 & -31 & 5 & 37\end{array}$
DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21
DAY 22
DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28
$\begin{array}{llll}831 & -33 & 4 & 2\end{array}$
$\begin{array}{llll}832 & -35 & 4 & 16\end{array}$
$\begin{array}{llll}832 & -33 & 5 & 29\end{array}$
$\begin{array}{llll}833 & -27 & 4 & 21\end{array}$

15 21


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $96.4 \%$ PRESSURE: $96.4 \%$ WINDS: $96.4 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $\quad$ N NNE NE ENE E ESE $\quad$ SE $\quad$ SSE $S$ S $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PP TT VV DD DAY 2

PP TT VV DD DAY 3

PP TT VV DD DAY 4

PP TT VV DD DAY 5

PP TT VV DD DAY 6

PP TT VV DD DAY 7

DAY 8
DAY 9

| DAY |  |  | 10 |
| :--- | :--- | :--- | ---: |
| 813 | -32 | 4 | 40 |
| 811 | -34 | 3 | 360 |
| 810 | -34 | 6 | 42 |
| 810 | -31 | 4 | 28 |
| 809 | -27 | 6 | 360 |

DAY 17
DAY 15
DAY 16

DAY 11
$\begin{array}{llll}809 & -35 & 5 & 50\end{array}$
$\begin{array}{llll}809 & -36 & 5 & 45\end{array}$
809 -32 9358
$\begin{array}{lll}811 & -29 & 355\end{array}$
$812-27 \quad 4272$

DAY 18

DAY 12
819-30 2291
$\begin{array}{llll}821 & -29 \quad 4 & 12\end{array}$
$821-29 \quad 4360$

DAY 19

DAY 13
DAY 14

DAY
DAY

DAY 20
DAY 21

DAY 28

$$
\begin{array}{rrrr}
828 & -32 & 3 & 8 \\
828 & -34 & 3 & 23 \\
829 & -32 & 3 & 29 \\
829 & -29 & 12 & 2 \\
829 & -27 & 12 & 15
\end{array}
$$

DAY 30

## DAY 31

DAY 29
$\begin{array}{llll}823 & -33 & 3 & 14\end{array}$
$\begin{array}{llll}823 & -32 & 6 & 40\end{array}$
$\begin{array}{llll}823 & -27 & 5 & 37\end{array}$
$\begin{array}{llll}823 & -27 & 7 & 7\end{array}$

15
18
21

$$
\begin{array}{rllr}
822 & -31 & 0 & 0 \\
823 & -32 & 1 & 74 \\
823 & -31 & 2 & 45 \\
824 & -29 & 1 & 189 \\
824 & -27 & 2 & 7 \\
824 & -30 & 3 & 32 \\
823 & -33 & 4 & 11
\end{array}
$$

$\begin{array}{llll}821 & -31 & 4 & 46\end{array}$
$\begin{array}{llll}821 & -30 & 2 & 19\end{array}$
$\begin{array}{llll}821 & -32 & 25\end{array}$
$\begin{array}{lll}821 & -29 \quad 2347\end{array}$
$\begin{array}{llll}822 & -28 & 2 & 43\end{array}$ 822-32 $4 \quad 32$

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $84.7 \%$ PRESSURE: $84.7 \%$ WINDS: $84.7 \%$

 WIND DIRECTION: N NNE NE ENE E ESE $\quad$ SE $\quad$ SSE $\quad$ S $\quad$ SSW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PP TT VV DD PP TT VV DD PP TT VV DD DAY 1 DAY 2 DAY 3
824-33 $4 \quad 4$ 824-30 4354 825-30 6 825-29 8360 $\begin{array}{llll}826 & -25 & 7350\end{array}$
15

DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14
00
03
06
09
12
15
18
21
DAY 15
00
03
06
09
12
15

|  | DAY |  |  |  | 29 |  | DAY |  |  |  | 30 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 816 | -40 | 3 | 82 | 829 | -41 | 3 | 42 |  |  |  |
| 03 | 817 | -42 | 4 | 36 | 829 | -39 | 5 | 18 |  |  |  |
| 06 | 818 | -42 | 2 | 9 | 829 | -39 | 3 | 35 |  |  |  |
| 09 | 820 | -40 | 1 | 42 | 829 | -38 | 4 | 30 |  |  |  |
| 12 | 823 | -36 | 3 | 340 | 830 | -36 | 6 | 37 |  |  |  |
| 15 | 825 | -38 | 1 | 344 | 830 | -35 | 3 | 14 |  |  |  |
| 18 | 826 | -42 | 3 | 39 | 829 | -34 | 6 | 11 |  |  |  |
| 21 | 828 | -43 | 4 | 49 | 828 | -33 | 9 | 1 |  |  |  |

PP TT VV DD
DAY 4

PP TT VV DD DAY 6

PP TT VV DD
DAY 7
$813-26 \quad 2 \quad 21$

DAY 18
DAY 19
DAY 20
DAY 21

DAY 22

$$
\begin{array}{llll}
829 & -30 & 4 & 16 \\
828 & -30 & 3 & 15 \\
827 & -31 & 4 & 35 \\
827 & -29 & 2 & 29 \\
826 & -27 & 3 & 45
\end{array}
$$

DAY 23

DAY 26
$829-27 \quad 5358$
$829-27 \quad 6341$

829 - $29 \quad 6 \quad 347$
$\begin{array}{lll}829 & -29 \quad 7 \quad 14\end{array}$
$\begin{array}{llll}809 & -35 & 8 & 199\end{array}$ 811-38 4219 813-39 0 815-41 1216

* temperature ( $C$ ) * mean $=0.0$ StD dev $=0.0$ max =****** at 0 GMT ON DAY 0 min $=$ a****** at 0 GMT ON DAY 0
* theta (K) * MEAN $=0.00$

* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=\star * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $85.4 \%$ PRESSURE: $85.4 \%$ WINDS: $85.4 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & -6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PP TT VV DD PP TT VV DD DAY 3

```
PP TT VV DD
    DAY 4
PP TT VV DD
```


## DAY 5

825-31 4358
$\begin{array}{llll}824 & -32 & 5 & 2\end{array}$
$\begin{array}{llll}824 & -32 & 4 & 8\end{array}$
$\begin{array}{llll}825 & -33 & 3 & 360\end{array}$
$\begin{array}{llllllll}825 & -32 & 6 & 40 & 826 & -35 & 3 & 360\end{array}$
$\begin{array}{llllllll}825 & -32 & 4 & 25 & 826 & -33 & 3 & 37\end{array}$
$\begin{array}{llllllll}825 & -31 & 6 & 14 & 827 & -34 & 1 & 274\end{array}$
$\begin{array}{llllllll}825 & -30 & 6 & 2 & 828 & -35 & 1 & 9\end{array}$
00
03
06
09
12
15
$811-3120324$
DAY 8

## DAY 2

827-32 10354
826-33 11360
$\begin{array}{llll}825 & -32 & 8 & 355\end{array}$
$824-30 \quad 8 \quad 360$

8
DAY 9

DAY 10
DAY 11
813-29 28337
812 -30 29351
815-29 21320
816 -24 28310
DAY 12

$$
\begin{array}{llll}
829 & -35 & 1 & 360
\end{array}
$$

$\begin{array}{llll}830 & -36 & 2 & 360\end{array}$
$\begin{array}{llll}830 & -34 & 2 & 1\end{array}$
$\begin{array}{llll}830 & -31 & 3 & 8\end{array}$
$\begin{array}{llll}830 & -31 & 3 & 9\end{array}$
829-28 $\quad 4 \quad 5$
$\begin{array}{llll}828 & -26 & 3 & 8\end{array}$ DAY 16 DAY 17

DAY 13
DAY 14
PP TT VV DD DAY 6

PP TT VV DD DAY 7

DAY 14

DAY 18 DAY 19
$\begin{array}{lll}\text { DAY } 18 & \text { DAY } 19 & \text { DAY } 20\end{array}$
DAY 19 DAY 20
$822-1831 \quad 8$
$\begin{array}{llll}823 & -32 & 11 & 291\end{array}$
$824-3013 \quad 298$ $824-28 \quad 13 \quad 313$
$\begin{array}{llll}830 & -28 \quad 4 \quad 40\end{array}$
$830-25 \quad 4360$

DAY 25
840-23 7322

00
03
06
09
12
15
18
21

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=0.0$ STD dEV $=0.0$ maX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0
* theta (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $83.5 \%$ PRESSURE: $83.5 \%$ WINDS: $83.5 \%$

WIND SPEED $(M / S): \begin{array}{llllllllllllllllll} & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ 55-60 & 60+\end{array}$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PP TT VV DD
DAY 4

PP TT WV DD DAY 5

PP TT W DD DAY 6

PP TT WV DD DAY 7

DAY 13
DAY 14

DAY 15

03
$\qquad$ MONTHLY SUMMARY


* theta (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=\boldsymbol{0} * * * * * ~ A T \quad O$ GMT ON DAY $O$ MIN =****** AT OMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $88.7 \%$ PRESSURE: $88.7 \%$ WINDS: $88.7 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S $\quad$ SSW SW WSW $W$ WNW NW NNW



DAY 11
DAY 12
DAY 13
DAY 14

$$
\begin{array}{llll}
811 & -45 & 5 & 45
\end{array}
$$

$$
\begin{array}{llll}
812 & -43 & 3 & 26
\end{array}
$$

* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=$ ****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $99.2 \%$ PRESSURE: $99.2 \%$ WINDS: $99.2 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
HR PP TT VV DD PP TT VV DD PP TT VV DD

| PP TT VV DD |  |
| :--- | ---: | :--- |
| DAY | 4 |

PP TT WV DD DAY 5 DAY 6
PP TT VV DD DAY 7

00

DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
$\begin{array}{llll}828 & -37 & 3 & 360\end{array}$
$\begin{array}{llll}823 & -31 & 3 & 18\end{array}$ $\begin{array}{llll}822 & -29 & 5 & 36\end{array}$
$\begin{array}{llll}828 & -34 & 5 & 4\end{array}$

DAY 14

## $810-31 \quad 16358$

DAY 20
DAY 21
$\begin{array}{llll}831 & -30 & 8 & 330\end{array}$
836-32 6293
$\begin{array}{lll}831 & -26 \quad 7331\end{array}$
$\begin{array}{llll}839 & -36 & 6 & 50\end{array}$
$\begin{array}{llll}840 & -39 & 4 & 33\end{array}$
$\begin{array}{llll}842 & -31 & 5 & 29\end{array}$
$844-29 \quad 3 \quad 322$
815-43
815-42
816-44
DAY 22
DAY 16
DAY 17

820-42 824-42 1 112
$\begin{array}{llllllll}821 & -37 & 4 & 360 & 825 & -39 & 3 & 350\end{array}$
$\begin{array}{llll}821 & -36 & 5 & 7\end{array}$
$\begin{array}{llll}821 & -37 & 4 & 37\end{array}$ DAY 24
$\begin{array}{llll}825 & -32 & 1 & 354\end{array}$ 825-41

DAY 25
$\begin{array}{llll}848 & -27 & 4 & 37\end{array}$
$\begin{array}{llll}849 & -28 & 4 & 2\end{array}$

DAY 29
DAY 30

828-34
830-33
833-32
$\begin{array}{lll}836 & -28 & 1352\end{array}$
15
18
21



* theta (K) * mean $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * A T \quad 0$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $80.4 \%$ PRESSURE: $80.8 \%$ WINDS: $85.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PP TT VV DD DAY 1

PP TT VV DD DAY 2

PP TT VV DD DAY 3

PP TT VV DD DAY 4

PP TT VV DD DAY 5

PP TT VV DD DAY 6

PP TT VV DD DAY 7

00
03
06
09
12
15
18
21


DAY 29
DAY 30
DAY 31

```
812 -33 3 307
813-29 1338
```

| 821 | -31 | 5 | 1 | 812 | -33 | 3 | 307 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 813 | -29 | 1 | 338 |  |  |  |  |

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY O
* THETA (K) * MEAN $=0.00$

* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $76.6 \%$ PRESSURE: $76.6 \%$ WINDS: $76.6 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

$$
0 \begin{array}{llllllllllllll}
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0
\end{array} 0
$$




00
$\begin{array}{lllll}03 & 819 & -35 & 3 & 28\end{array}$
$\begin{array}{lllll}06 & 820 & -36 & 6 & 47\end{array}$
$\begin{array}{lllll}09 & 821 & -31 & 6 & 2\end{array}$
$\begin{array}{llll}12 & 822 & -25 & 3\end{array}$
15
18
21 DAY 8 DAY 9

DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

$$
\begin{array}{llllllll}
844 & -26 & 1 & 102 & 843 & -29 & 2 & 25
\end{array}
$$

$\begin{array}{llll}843 & -26 & 4 & 15\end{array}$

DAY 15
DAY 16
DAY 17
DAY 18
DAY 19

| DAY |  |  |  |
| :--- | :--- | :--- | :--- |
| 20 |  |  |  |
| 840 | -8 | 4 | 151 |

DAY 21
$\begin{array}{llllllll}823 & -35 & 4 & 57 & 826 & -38 & 2 & 30\end{array}$
$\begin{array}{llllllllllll}822 & -27 & 1 & 360 & 827 & -37 & 3 & 43 & 823 & -30 & 10 & 360\end{array}$
$\begin{array}{lllllll}823 & -22 & 1 & 223 & 827 & -29 & 2\end{array}$


| 00 |  |  | 848 | -13 | 2 | 56 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 03 |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |
| 18 | 847 | -4 | 0 | 0 |  |  |  |
| 21 | 847 | -6 | 2 | 90 | 847 | -7 | 3 |
| DAY | 29 |  |  | 270 |  |  |  |
|  | DAY | 30 |  |  |  |  |  |

03
06
09
12
15
18
$\begin{array}{lllll}21 & 838 & -7 & 6 & 360\end{array}$
WIND DIRECTION: $\quad$ N $\quad$ NNE $\quad$ NE

| PERCENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

STATION : 8917 SKI-HI
LAT : 74.98S LONG : 70.77W ELEVATION : 1395 M

| DEC HR | $\begin{aligned} & 97 \\ & \text { PP } \end{aligned}$ | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 1 \end{array}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD |  | $\begin{gathered} \text { TT V } \\ \text { DAY } \end{gathered}$ | $\begin{gathered} \text { vV } \\ 3 \end{gathered}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { dAY } \end{gathered}$ |  |  |  | $\begin{gathered} \text { TT V } \\ \text { DAY } \end{gathered}$ | $\begin{array}{ccc} \text { VV } & \text { DD } \\ 5 & \end{array}$ |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 6 \end{array}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 |  |  |  |  |  |  |  |  |  | -6 | 1 | 1 | 854 | -4 | 7 | 319 | 850 | 0 | 1240 | 845 | -3 | 3 | 360 | 845 | -1 | 2 | 40 |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  | 854 | -7 | 3 | 61 | 849 | -3 | 123 | 845 | -7 | 2 | 358 | 845 | -8 | 5 | 9 |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 848 | -5 | 250 |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 848 | -3 | 236 |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  | 853 | -5 1 | 14 | 351 | 853 | -1 | 2 |  | 847 | -2 | 4341 |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  | 853 | -3 1 | 12 | 336 | 852 |  | 1 |  | 846 | 2 | 259 | 846 | 4 | 1 | 71 | 843 | -2 | 4 | 4 |
| 18 | 840 | -4 | 13 | 347 | 850 | -5 | 123 | 338 | 854 | -3 1 | 13 | 333 | 851 |  | 1 | 49 | 846 | 3 | 185 | 846 | 5 | 1 | 202 | 843 |  | 0 | 0 |
| 21 |  |  |  |  | 851 | -5 | $93$ |  | 854 | -2 | 5 | 338 | 851 | 0 | 3 |  | 845 | 2 | $32$ | 846 | 4 | 0 | 0 | 843 | 1 |  | 229 |
|  |  | DAY | 8 |  |  | DAY | $9$ |  |  | $\text { DAY } 1$ |  |  |  | DAY | 11 |  |  | DAY 1 | $12$ |  |  | 13 |  |  | DAY |  |  |
| 00 | 843 | -3 |  | 360 | 839 | -5 | 42 | 288 | 837 | -4 | 21 | 177 | 838 | -3 | 13 | 341 | 836 | -8 | 3120 | 830 | -5 | 2 | 355 |  |  |  |  |
| 03 | 842 | -10 | 4 | 23 | 839 | -7 | 13 | 337 | 837 | -7 | 5 | 338 | 838 | -8 | 3 | 360 |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  | 839 | -3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 840 | -1 | 4 | 293 | 838 | -1 | 1 | 7 | 837 | -3 | 5 | 360 | 838 | -1 | 1 | 265 | 832 | -1 | 4355 | 827 | -1 | 0 | 0 | 833 | -4 | 2 | 50 |
| 18 | 840 | -2 | 5 | 275 | 837 | 1 | 2 | 203 | 838 | -2 | 4 | 326 | 838 | 0 | 1 | 177 | 831 | -3 | 4345 | 827 | -3 | 2 | 64 | 834 | -3 | 3 | 97 |
| 21 | 840 | -2 | 6 | 257 | 837 | -4 | 42 | 216 | 838 | -1 | 2 | 333 | 837 | -3 | 3 | 120 | 830 | -4 | 2340 | 827 | -7 | 4 | 98 | 835 | 4 | 3 | 95 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY 1 |  |  |  | DAY | 18 |  |  | day 1 | 19 |  | DAY 2 | 20 |  |  | DAY |  |  |
| 00 | 836 | -5 | 2 | 77 |  |  |  |  | 834 |  | 31 | 109 | 833 | -10 | 4 | 98 |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  | 834 | -3 | 0 | 0 | 833 |  | 1 | 71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  | 834 | 0 | 0 | 0 | 833 | -4 | 3 | 202 | 832 | -6 | 21 | 150 |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  | 834 | -5 |  | 209 | 833 | -6 | 3 | 163 | 831 | -9 | 31 | 174 |  | -7 | 4310 |  |  |  |  |  |  |  |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY 2 |  |  |  | DAY | 25 |  |  | DAY 2 | 26 |  | DAY | 27 |  |  | DAY |  |  |
| 00 |  |  |  |  |  |  |  |  | 839 | -5 | 1 | 230 | 835 | -9 | 3 | 296 |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 840 | -5 |  | 209 | 839 | -5 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 839 | -6 | 3 | 192 | 839 | -6 | 1 | 255 | 835 | -7 | 4 | 275 |  |  |  |  |  |  |  | 844 | -9 | 4 | 105 |  |  |  |  |
| 21 |  |  |  |  | 839 | -6 | 12 | 260 |  | -6 | 3 | 244 |  |  |  |  |  |  |  | 844 | -9 | 5 | 101 |  |  |  |  |
|  |  | DAY |  |  |  |  | 30 |  |  | DAY 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

$$
\begin{array}{lllllll}
841 & -11 & 12 & 260 & 833 & -1 & 1 \\
& & 832 & -6 & 5 & 337
\end{array}
$$

* TEMPERATURE ( $C$ ) * MEAN $=-3.7$ STD DEV $=3.3$ MAX $=5.1$ AT 1630 GMT ON DAY 6 MIN $=-11.5$ AT 340 GMT ON DAY 8
* THETA (K) * MEAN $=283.25$
* PRESSURE (MB) * MEAN $=840.1$ STD DEV $=7.2$ MAX $=854.3$ AT 2000 GMT ON DAY 3 MIN $=826.0$ AT 2030 GMT ON DAY 19
* WINDS (M/S) * MEAN $=3.0$ STD DEV $=2.8$ RESULTANT $=1.3$ FROM 339 . CONSTANCY $=0.42 \mathrm{MAX}=15.8$ FROM 351 . AT 1230 GMT DAY 3
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $64.9 \%$ PRESSURE: $64.1 \%$ WINDS: $63.7 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 16 & 2 & 6 & 7 & 7 & 5 & 1 & 2 & 5 & 8 & 4 & 5 & 6 & 4 & 4 & 18\end{array}$

* TEMPERATURE (C) * MEAN $=-31.9$ STD DEV $=4.3$ MAX $=-23.8$ AT 1320 GMT ON DAY 10 MIN $=-43.9$ AT 2340 GMT ON DAY 31
* THETA (K) * MEAN $=273.45$
* PRESSURE (MB) * MEAN $=645.6$ STD DEV $=3.4$ MAX $=651.4$ AT 1350 GMT ON DAY 22 MIN $=633.2$ AT 150 GMT ON DAY 6
* WINDS (M/S) * MEAN $=5.7$ STD DEV $=2.2$ RESULTANT $=5.4$ FROM 111. CONSTANCY $=0.94$ MAX $=13.2$ FROM 76. AT 840 GMT DAY 6
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$


PERCENT $\begin{array}{rrrrrrrrrrrrrrr}N & \text { NNE } & \text { NE } & \text { ENE } & E & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ 0 & 0 & 0 & 8 & 18 & 45 & 23 & 5 & 1 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

FEB 97

| HR | PP |  | vV | DD | PP |  | vV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 648 | -44 | 4 | 131 | 657 | -35 | 2 | 121 | 652 | -43 | 7 | 127 |
| 03 | 649 | -42 | 4 | 124 | 657 | -37 | 3 | 141 |  |  |  |  |
| 06 | 651 | -36 | 4 | 109 | 656 | -33 | 2 | 128 | 651 | -37 | 9 | 126 |
| 09 | 652 | -32 | 4 | 90 | 656 | -30 | 3 | 116 | 651 | -33 | 9 | 120 |
| 12 | 653 | -27 | 3 | 69 |  |  |  |  | 651 | -31 | 8 | 119 |
| 15 | 655 | -30 | 2 | 48 | 654 | -31 | 5 | 131 | 651 | -32 | 7 | 127 |
| 18 |  |  |  |  | 653 | -36 | 6 | 126 | 651 | -36 | 5 | 131 |
| 21 | 656 | -33 | 1 | 60 | 653 | -41 | 5 | 126 | 651 | -40 | 6 | 135 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 640 | -41 | 6 | 127 | 641 | -39 | 7 | 113 | 644 | -41 | 6 | 138 |
| 03 | 640 | -37 | 7 | 130 | 641 | -39 | 6 | 114 | 644 | -41 | 7 | 137 |
| 06 | 639 | -36 | 10 | 119 | 642 | -36 | 7 | 114 | 644 | -37 | 6 | 133 |
| 09 | 639 | -33 | 12 | 117 | 642 | -32 | 9 | 106 | 643 | -35 | 6 | 130 |
| 12 | 639 | -31 | 12 | 103 | 643 | -31 | 7 | 106 | 644 | -34 | 8 | 116 |
| 15 | 639 | -31 | 10 | 96 | 643 | -32 | 5 | 120 | 644 | -32 | 7 | 99 |
| 18 | 640 | -35 | 7 | 109 | 643 | -37 | 5 | 126 | 644 | -34 | 6 | 105 |
| 21 | 640 | -38 | 8 | 107 | 644 | -41 | 4 | 131 | 644 | -36 | 5 | 124 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 642 | -46 | 5 | 130 | 640 | -46 | 5 | 123 | 642 | -50 | 4 | 147 |
| 03 | 642 | -44 | 7 | 134 | 640 | -45 | 6 | 123 | 642 | -49 | 5 | 144 |
| 06 | 641 | -40 | 7 | 123 | 640 | -42 | 5 | 105 | 641 | -43 | 6 | 144 |
| 09 | 640 | -37 | 8 | 124 | 641 | -39 | 6 | 96 | 641 | -39 | 6 | 130 |
| 12 | 640 | -35 | 9 | 117 | 642 | -37 | 5 | 95 | 641 | -36 | 7 | 121 |
| 15 | 639 | -37 | 6 | 110 | 642 | -37 | 2 | 116 | 641 | -38 | 7 | 120 |
| 18 | 639 | -41 | 6 | 119 | 642 | -44 | 3 | 130 | 641 | -43 | 7 | 126 |
| 21 | 640 | -45 | 5 | 114 | 643 | -48 | 4 | 143 | 641 | -47 | 6 | 13 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 643 | -51 | 7 | 127 | 641 | -47 | 11 | 116 | 632 | -50 | 8 | 123 |
| 03 | 643 | -48 | 7 | 123 | 640 | -46 | 11 | 119 | 632 | -48 | 9 | 123 |
| 06 | 643 | -44 | 7 | 117 | 639 | -43 | 12 | 124 | 632 | -44 | 8 | 117 |
| 09 | 643 | -41 | 10 | 109 | 638 | -41 | 9 | 123 | 633 | -40 | 7 | 120 |
| 12 | 643 | -38 | 9 | 116 | 636 | -39 | 15 | 131 | 634 | -37 | 6 | 114 |
| 15 | 643 | -41 | 9 | 117 | 635 | -41 | 11 | 135 | 635 | -38 | 7 | 106 |
| 18 | 643 | -45 | 9 | 114 | 634 | -46 | 11 | 133 | 636 | -43 | 5 | 114 |
| 21 | 642 | -47 | 12 | 121 | 633 | -48 | 12 | 131 | 638 | -45 | 5 | 130 |




MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-39.7$ Std dev $=5.7$ max $=-27.0$ at 1150 GMt ON day 1 min $=-52.6$ at 10 gmt on day 21
* THETA (K) * MEAN $=264.96$
* PRESSURE (MB) * MEAN $=642.5$ STD DEV $=4.8$ MAX $=656.9$ AT 2330 GMT ON DAY 1 MIN $=632.0$ AT 150 GMT ON DAY 24
* WINDS (M/S) * MEAN $=6.8 \mathrm{STD}$ DEV $=2.2$ RESULTANT $=6.5 \mathrm{FROM} 126 . \operatorname{CONSTANCY}=0.96 \mathrm{MAX}=15.5 \mathrm{FROM} 121$. AT 730 GMT DAY 23 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.8 \%$ PRESSURE: $1.8 \%$ WINDS: $1.8 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW PERCENT

$$
\begin{array}{lllllllllllllll}
0 & 0 & 0 & 1 & 5 & 38 & 47 & 7 & 2 & 0 & 0 & 0 & 0 & 0 & 0
\end{array} 0
$$

DAY 1
$\begin{array}{lllll}00 & 642 & -47 & 6 & 137\end{array}$
$\begin{array}{lllll}03 & 641 & -47 & 6 & 131\end{array}$
$\begin{array}{lllll}06 & 640 & -44 & 7 & 128\end{array}$
$\begin{array}{lllll}09 & 639 & -41 & 8 & 121\end{array}$
$\begin{array}{llll}12 & 638 & -39 & 7\end{array} 124$
$\begin{array}{lllll}15 & 638 & -42 & 6 & 117\end{array}$
$\begin{array}{lllll}18 & 638 & -47 & 6 & 121\end{array}$
$\begin{array}{llll}21 & 638 & -49 & 6126\end{array}$ DAY 8
$\begin{array}{lllll}00 & 635 & -50 & 7 & 121\end{array}$
$\begin{array}{llllll}03 & 636 & -51 & 7 & 119\end{array}$
$\begin{array}{lllll}06 & 636 & -47 & 6 & 121\end{array}$
$\begin{array}{lllll}09 & 637 & -44 & 6 & 114\end{array}$
$\begin{array}{lllll}12 & 637 & -42 & 5 & 124\end{array}$
$\begin{array}{lllll}15 & 637 & -45 & 5 & 119\end{array}$
$\begin{array}{lllll}18 & 637 & -50 & 5 & 124\end{array}$
$\begin{array}{llll}21 & 637 & -52 \quad 4130\end{array}$ DAY 15
$\begin{array}{lllll}00 & 633 & -54 & 8 & 135\end{array}$
$\begin{array}{llllll}03 & 632 & -54 & 8 & 131\end{array}$
$\begin{array}{lllll}06 & 632 & -51 & 8 & 135\end{array}$
$\begin{array}{lllll}09 & 632 & -48 & 9 & 140\end{array}$
$\begin{array}{lllll}12 & 631 & -46 & 8 & 137\end{array}$
$\begin{array}{lllll}15 & 631 & -49 & 7 & 135\end{array}$
$\begin{array}{lllll}18 & 631 & -52 & 7 & 130\end{array}$
$\begin{array}{lllll}21 & 631 & -53 & 8 & 135\end{array}$ DAY 22
$\begin{array}{lllll}00 & 638 & -55 & 5 & 131\end{array}$
$\begin{array}{lllll}03 & 638 & -55 & 6 & 134\end{array}$
$\begin{array}{llllll}06 & 638 & -53 & 5 & 135\end{array}$
$\begin{array}{llllll}09 & 639 & -49 & 5 & 133\end{array}$
$\begin{array}{llllll}12 & 639 & -49 & 5 & 133\end{array}$
$\begin{array}{lllll}15 & 639 & -53 & 5 & 131\end{array}$
$\begin{array}{lllll}18 & 638 & -54 & 5 & 137\end{array}$
$\begin{array}{llll}21 & 638 & -54 \quad 4 & 140\end{array}$
DAY 29
$\begin{array}{lllll}00 & 631 & -54 & 8 & 113\end{array}$
$\begin{array}{lllll}03 & 631 & -55 & 8 & 112\end{array}$
$\begin{array}{lllll}06 & 631 & -53 & 7 & 113\end{array}$
$\begin{array}{lllll}09 & 631 & -51 & 8 & 114\end{array}$
$\begin{array}{lllll}12 & 631 & -50 & 7 & 110\end{array}$
$\begin{array}{lllll}15 & 631 & -52 & 8 & 114\end{array}$
$\begin{array}{llll}18 & 631 & -53 & 7119\end{array}$
$\begin{array}{llll}21 & 630 & -53 & 7113\end{array}$

PP TT VV DD PP TT VV DD DAY 2
638-50 6131
$637-50 \quad 6127$
$636-45 \quad 7124$
$636-42 \quad 6130$
$635-40 \quad 7 \quad 130$
634-43 6126
634-48 6128
633-49 7140 DAY 9
637-53 4131
$636-52 \quad 5133$
$636-49 \quad 4133$
$635-46 \quad 4130$
$\begin{array}{llll}635 & -44 & 2 & 143\end{array}$
634-48 3144
$\begin{array}{llll}633 & -51 & 3 & 140\end{array}$
633-53 3154 DAY 16
$\begin{array}{llll}631 & -53 & 7 & 131\end{array}$
$631-5011128$
$631-4810119$
$\begin{array}{llll}631 & -47 & 9 & 119\end{array}$
$\begin{array}{llll}631 & -50 & 8 & 121\end{array}$
$\begin{array}{llll}631 & -52 & 9 & 117\end{array}$
$\begin{array}{llll}632 & -53 & 8 & 121\end{array}$ DAY 23
$\begin{array}{llll}638 & -55 & 5 & 140\end{array}$
$\begin{array}{llll}637 & -56 & 5 & 134\end{array}$
$\begin{array}{llll}637 & -53 & 5 & 137\end{array}$
$\begin{array}{llll}636 & -51 & 5 & 127\end{array}$
$636-49 \quad 4126$
$635-54 \quad 4128$
635-55 6134
$635-56 \quad 5120$ DAY 30
$630-54 \quad 6121$
$630-54 \quad 6 \quad 120$
$630-54 \quad 6 \quad 123$
$\begin{array}{llll}630 & -53 & 5 & 127\end{array}$
$630-53 \quad 6 \quad 135$
$\begin{array}{lllll}630 & -57 & 6 & 131\end{array}$
$629-59 \quad 6138$
$629-60 \quad 6 \quad 135$

DAY 3
$633-508152$
$633-517140$ $633-49 \quad 9128$
$\begin{array}{llll}636 & -46 & 6119\end{array}$
$638-51 \quad 5119$
$639-52 \quad 5123$ DAY 10
632-55 4159
$631-56 \quad 4159$
$630-53 \quad 5148$
$630-497133$
$630-47 \quad 7137$
$\begin{array}{llll}630 & -49 & 8 & 148\end{array}$
$630-53 \quad 6137$
629-54 7141 DAY 17
632-53 9117
$\begin{array}{llll}632 & -53 & 8 & 117\end{array}$
$633-5010109$
$633-46 \quad 7110$
$\begin{array}{llll}633 & -45 & 9 & 103\end{array}$
$634-46 \quad 9 \quad 93$
$634-49 \quad 6 \quad 107$
$634-48 \quad 8 \quad 110$ DAY 24
635-56 5131
635-52 4116
$635-50 \quad 5116$
$635-49 \quad 5112$
$\begin{array}{llll}635 & -48 & 6 & 106\end{array}$
$636-51 \quad 5120$
$636-51 \quad 6109$
636-51 6114 DAY 31
$\begin{array}{ccc}629 & -60 \quad 7130\end{array}$
629-60 7130
$628-597130$
629-57 6131
628-56 5145
$\begin{array}{llll}629 & -60 & 6143\end{array}$
$\begin{array}{llll}629 & -61 & 5 & 148 \\ 629 & -62 & 5 & 141\end{array}$

PP TT VV DD PP TT VV DD PP TT VV DD DAY 5
$\begin{array}{llll}640-49 & 11117\end{array}$
$638-4813119$
$637-4513119$
$636-4111112$
$\begin{array}{llll}635 & -40 & 13 & 99\end{array}$
$636-4012103$
$636-4511106$
636 -46 10113 DAY 12
629-52 10150
$629-5211154$
$629-49 \quad 9157$
$629-4610155$
$\begin{array}{llll}630 & -45 & 8 & 164\end{array}$
$630-478154$
$631-509148$
$631-52 \quad 8152$ DAY 19
$633-519123$
$633-5210119$
$633-50 \quad 9116$
$634-459106$
$\begin{array}{llll}635 & -43 & 8 & 99\end{array}$
$635-45 \quad 9 \quad 100$
$\begin{array}{llll}636 & -47 & 6 & 81\end{array}$
$\begin{array}{llll}636 & -47 & 7 & 100\end{array}$ DAY 26
636-51 4120
$\begin{array}{llll}635 & -53 & 5 & 126\end{array}$
$\begin{array}{llll}635 & -52 & 5 & 128\end{array}$
$635-50 \quad 5124$
$634-50 \quad 4121$
$\begin{array}{llll}633 & -54 & 5 & 127\end{array}$
$\begin{array}{llll}633 & -56 & 5 & 127\end{array}$
$633-56 \quad 5130$

PP TT VV DD DAY 7
$636-507137$
$635-50 \quad 7137$
$635-45 \quad 7138$
$\begin{array}{llll}635 & -42 & 8 & 128\end{array}$
$\begin{array}{llll}634 & -41 & 8119\end{array}$
$634-448120$
$635-497121$
$635-50 \quad 7120$ DAY 14
632-51 7123
$632-52 \quad 8128$
$632-50 \quad 9124$
$\begin{array}{llll}632 & -46 & 5 & 124\end{array}$
$\begin{array}{llll}633 & -45 & 7127\end{array}$
$\begin{array}{llll}632 & -48 & 8 & 131\end{array}$
$\begin{array}{llll}633 & -52 & 8 & 133\end{array}$
$\begin{array}{llll}633 & -53 & 7 & 133\end{array}$ DAY 21
635-52 7128
$634-527128$
$635-507126$
$635-47 \quad 7126$
$636-47 \quad 6128$
$636-51 \quad 6 \quad 131$
$637-53 \quad 6 \quad 130$
$\begin{array}{llll}638 & -55 \quad 6 \quad 133\end{array}$
DAY 28
$630-60 \quad 7130$
$\begin{array}{llll}630 & -60 & 7130\end{array}$
$630-58 \quad 7130$
$630-55 \quad 7121$
$630-54 \quad 7117$
$630-56 \quad 6 \quad 123$
$\begin{array}{llll}631 & -56 & 9 & 117\end{array}$
$\begin{array}{llll}630 & -54 & 8109\end{array}$

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-50.1$ STD DEV $=4.6$ MAX $=-39.1$ AT 1040 GMT ON DAY 1 MIN = -62.6 AT 2250 GMT ON DAY 31
* theta (K) * MEAN $=254.08$
* PRESSURE (MB) * MEAN $=633.9$ STD DEV $=3.3$ MAX $=643.5$ AT 1300 GMT ON DAY 4 MIN $=628.2$ AT 1220 GMT ON DAY 31
* WINDS (M/S) * MEAN $=6.8$ STD DEV $=1.8$ RESULTANT $=6.6$ FROM 126. CONSTANCY $=0.97 \mathrm{MAX}=14.5$ FROM 131. AT 150 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $1.2 \%$ HINDS: $1.2 \%$
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ \text { PERCENT: } & 0 & 4 & 30 & 46 & 16 & 3 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

APR 97
$\begin{array}{rrrr}\text { HR PP TT VV D } \\ \text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 630 & -62 & 6 & 137\end{array}$
$\begin{array}{lllll}03 & 630 & -63 & 5 & 138\end{array}$
$\begin{array}{lllll}06 & 630 & -62 & 6 & 145\end{array}$
$\begin{array}{lllll}09 & 631 & -59 & 4 & 141\end{array}$
$\begin{array}{lllll}12 & 631 & -58 & 4 & 143\end{array}$
$\begin{array}{lllll}15 & 631 & -62 & 6 & 140\end{array}$
$\begin{array}{lllll}18 & 631 & -63 & 4 & 144\end{array}$
$\begin{array}{lllll}21 & 631 & -64 & 5 & 143\end{array}$ DAY 8
$\begin{array}{lllll}00 & 628 & -57 & 9 & 159\end{array}$
$\begin{array}{lllll}03 & 624 & -58 & 10 & 162\end{array}$
$\begin{array}{lllll}06 & 622 & -61 & 11 & 138\end{array}$
$\begin{array}{lllll}09 & 620 & -59 & 10 & 133\end{array}$
$\begin{array}{lllll}12 & 620 & -58 & 9 & 126\end{array}$
$\begin{array}{lllll}15 & 619 & -59 & 10 & 131\end{array}$
$\begin{array}{lllll}18 & 620 & -60 & 9 & 120\end{array}$
$\begin{array}{lllll}21 & 620 & -61 & 10 & 109\end{array}$ DAY 15
$\begin{array}{lllll}00 & 631 & -66 & 6 & 131\end{array}$
$\begin{array}{lllll}03 & 631 & -67 & 7 & 134\end{array}$
$\begin{array}{lllll}06 & 632 & -68 & 6 & 143\end{array}$
$\begin{array}{lllll}09 & 632 & -66 & 6 & 140\end{array}$
$\begin{array}{lllll}12 & 633 & -66 & 5 & 144\end{array}$
$\begin{array}{lllll}15 & 633 & -68 & 4 & 148\end{array}$
$\begin{array}{lllll}18 & 634 & -69 & 5 & 152\end{array}$
$\begin{array}{lllll}21 & 634 & -68 & 6 & 155\end{array}$ DAY 22
$\begin{array}{lllll}00 & 642 & -57 & 6 & 127\end{array}$
$\begin{array}{lllll}03 & 641 & -57 & 8 & 123\end{array}$
$\begin{array}{lllll}06 & 639 & -56 & 9 & 113\end{array}$
$\begin{array}{lllll}09 & 639 & -54 & 10 & 113\end{array}$
$\begin{array}{lllll}12 & 638 & -55 & 9 & 117\end{array}$
$\begin{array}{lllll}15 & 638 & -56 & 8 & 120\end{array}$
$\begin{array}{lllll}18 & 638 & -57 & 8 & 120\end{array}$
$\begin{array}{lllll}21 & 638 & -56 & 8 & 119\end{array}$
DAY 29
$\begin{array}{lllll}00 & 647 & -55 & 5 & 158\end{array}$
$\begin{array}{lllll}03 & 644 & -53 & 8 & 152\end{array}$
$\begin{array}{lllll}06 & 643 & -52 & 8 & 151\end{array}$
$\begin{array}{lllll}09 & 641 & -54 & 8 & 151\end{array}$
$\begin{array}{lllll}12 & 639 & -55 & 8 & 151\end{array}$
$\begin{array}{lllll}15 & 637 & -55 & 9 & 135\end{array}$
$\begin{array}{lllll}18 & 635 & -56 & 10 & 138\end{array}$
$\begin{array}{lllll}21 & 634 & -56 & 10 & 137\end{array}$

PP TT VV DD PP TT VV DD DAY 2
631-64 5141
$\begin{array}{llll}631 & -64 & 6143\end{array}$
$\begin{array}{llll}631 & -63 & 7 & 138\end{array}$
632-60 7134
633-58 7131
633-61 7130
634-61 9127
634-61 7127
DAY 9
$\begin{array}{llll}621 & -62 \quad 9119\end{array}$
$\begin{array}{llll}622 & -61 & 9 & 116\end{array}$
$623-60 \quad 7102$
$\begin{array}{llll}624 & -57 & 7 & 99\end{array}$
$\begin{array}{llll}626 & -57 \quad 7 & 103\end{array}$
$\begin{array}{llll}627 & -56 & 9 & 109\end{array}$
$\begin{array}{llll}627 & -57 & 7 & 105\end{array}$
$629-556103$
DAY 16
634-68 6155
$\begin{array}{llll}634 & -67 & 6 & 159\end{array}$
$\begin{array}{llll}634 & -66 & 7 & 145\end{array}$
634-64 7150
$\begin{array}{llll}634 & -64 & 6 & 141\end{array}$
$\begin{array}{llll}634 & -65 & 9 & 144\end{array}$
635 $\quad-66 \quad 9141$
$\begin{array}{llll}636 & -66 & 8 & 143\end{array}$ DAY 23
638-55 7.121
$\begin{array}{llll}638 & -58 & 7 & 121\end{array}$
$\begin{array}{llll}638 & -59 & 6 & 131\end{array}$
$\begin{array}{llll}639 & -58 & 5 & 127\end{array}$
$\begin{array}{llll}639 & -58 & 5 & 126\end{array}$
$\begin{array}{llll}639 & -58 & 5 & 131\end{array}$
639-59 4133
$640-60 \quad 4134$
DAY 30
$\begin{array}{llll}632 & -57 & 9 & 126\end{array}$
$\begin{array}{llll}631 & -58 & 9 & 123\end{array}$
$\begin{array}{llll}631 & -58 & 10 & 120\end{array}$
$\begin{array}{llll}631 & -59 & 8 & 127\end{array}$
631-59 8123
631-60 7123
632-60 8124
$\begin{array}{llll}632 & -60 \quad 8 \quad 128\end{array}$
635-60 8126
$\begin{array}{llll}636 & -60 & 8 & 124\end{array}$
$\begin{array}{llll}637 & -59 & 8 & 127\end{array}$
$\begin{array}{llll}638 & -57 & 8 & 133\end{array}$
$\begin{array}{llll}640 & -56 & 8 & 127\end{array}$
$641-59 \quad 7135$
642-61 7144
$\begin{array}{llll}643 & -61 & 8 & 147\end{array}$ DAY 10
630-54 8102
$\begin{array}{llll}631 & -50 & 8 & 98\end{array}$
$\begin{array}{llll}632 & -49 & 7 & 92\end{array}$
$\begin{array}{llll}633 & -47 & 8 & 85\end{array}$
$\begin{array}{llll}634 & -47 & 7 & 75\end{array}$
635-50 $\quad 5 \quad 95$
$\begin{array}{llll}635 & -53 & 5 & 100\end{array}$
$636-56 \quad 6117$ DAY 17
637-66 8128
$\begin{array}{llll}637 & -67 & 9 & 128\end{array}$
$\begin{array}{llll}638 & -67 & 8 & 130\end{array}$
$\begin{array}{llll}639 & -66 & 8 & 137\end{array}$
$\begin{array}{llll}640 & -66 & 7 & 133\end{array}$
641-67 10138
$\begin{array}{llll}643 & -68 & 7 & 135\end{array}$
$\begin{array}{llll}643 & -68 & 8 & 137\end{array}$ DAY 24
$\begin{array}{llll}640 & -58 & 3 & 140\end{array}$
$\begin{array}{llll}640 & -60 & 3 & 154\end{array}$
$\begin{array}{llll}640 & -61 & 3 & 155\end{array}$
$\begin{array}{llll}641 & -60 & 3 & 171\end{array}$
$\begin{array}{llll}641 & -61 & 3 & 176\end{array}$
$\begin{array}{llll}640 & -62 \quad 4171\end{array}$
$\begin{array}{llll}640 & -61 & 5 & 162\end{array}$
639 -61 5159

| PP | TT | VV | DD |
| :--- | :--- | :--- | :--- |
| DAY | 4 |  |  |
| 644 | -61 | 7 | 147 |
| 645 | -62 | 6 | 154 |
| 646 | -61 | 6 | 161 |
| 646 | -57 | 5 | 157 |
| 646 | -56 | 5 | 159 |
| 646 | -59 | 5 | 164 |
| 646 | -59 | 5 | 164 |
| 646 | -60 | 5 | 159 |
| DAY | 11 |  |  |
| 636 | -56 | 5 | 123 |
| 636 | -56 | 6 | 127 |
| 636 | -57 | 7 | 126 |
| 637 | -56 | 7 | 133 |
| 636 | -56 | 6 | 135 |
| 636 | -58 | 6 | 140 |
| 636 | -59 | 7 | 141 |
| 635 | -59 | 6 | 134 |
|  | DAY | 18 |  |
| 645 | -68 | 7 | 134 |
| 645 | -68 | 6 | 135 |
| 646 | -67 | 7 | 143 |
| 646 | -65 | 8 | 144 |
| 646 | -63 | 9 | 154 |
| 645 | -62 | 9 | 151 |
| 645 | -57 | 10 | 137 |
| 645 | -56 | 11 | 133 |
| DAY | 25 |  |  |
| 638 | -62 | 5 | 143 |
| 637 | -62 | 5 | 151 |
| 636 | -62 | 5 | 137 |
| 635 | -61 | 5 | 138 |
| 635 | -59 | 6 | 124 |
| 634 | -55 | 6 | 120 |
| 634 | -50 | 7 | 123 |
| 635 | -48 | 7 | 107 |
|  |  |  |  |

PP TT VV DD DAY 5
646-59 5151
$645-59 \quad 5155$
$645-58 \quad 4143$
$\begin{array}{llll}645 & -57 & 5141\end{array}$
$\begin{array}{llll}645 & -57 & 5 & 138\end{array}$
$\begin{array}{llll}644 & -59 & 6 & 135\end{array}$
$\begin{array}{llll}644 & -59 & 7 & 130\end{array}$
$644-58 \quad 7128$
DAY 12
635-58 7134
$634-60 \quad 6 \quad 141$
$\begin{array}{llll}633 & -58 & 6 & 130\end{array}$
$\begin{array}{llll}633 & -57 & 7 & 135\end{array}$
$\begin{array}{llll}632 & -57 & 8 & 134\end{array}$
$\begin{array}{llll}631 & -58 & 7 & 135\end{array}$
$\begin{array}{llll}630 & -60 & 6 & 137\end{array}$
$630-61 \quad 6143$

## DAY 19

645-55 11123
$646-5410124$
$646-5410126$
$\begin{array}{llll}647 & -54 & 9 & 127\end{array}$
$648-54 \quad 9126$
648 -55 8121
$\begin{array}{llll}648 & -55 & 9 & 119\end{array}$
$\begin{array}{llll}649 & -55 & 8 & 116\end{array}$
DAY 26
$\begin{array}{llll}635 & -48 & 7 & 103\end{array}$
636-49 $6 \quad 95$
$638-53 \quad 4102$
$640-54 \quad 4114$
$\begin{array}{lll}641 & -55 & 4119\end{array}$
$\begin{array}{llll}643 & -57 & 3 & 116\end{array}$
$643-57 \quad 4133$
$\begin{array}{llll}644 & -58 & 6 & 124\end{array}$

PP TT VV DD DAY 6
$643-577124$
$642-56 \quad 9123$
$641-54 \quad 9116$
$\begin{array}{llll}641 & -51 & 9 & 117\end{array}$
$\begin{array}{llll}640 & -51 & 10 & 117\end{array}$
$640-4811113$
$640-48 \quad 9110$
$639-5010114$ DAY 13
$\begin{array}{llll}629 & -61 \quad 6141\end{array}$
$\begin{array}{llll}628 & -62 \quad 6137\end{array}$
$\begin{array}{llll}627 & -61 & 7 & 145\end{array}$
627-60 5151
627-61 6151
627-64 5150
$\begin{array}{llll}627 & -64 & 5 & 159\end{array}$
$627-65 \quad 6152$ DAY 20
649-56 8121
$649-56 \quad 8 \quad 120$
$\begin{array}{llll}649 & -57 & 8 & 120\end{array}$
$\begin{array}{llll}650 & -57 & 7 & 124\end{array}$
$\begin{array}{llll}650 & -58 & 7 & 121\end{array}$
$\begin{array}{llll}650 & -57 & 7120\end{array}$
$\begin{array}{llll}650 & -53 & 7119\end{array}$
$650-54 \quad 6117$ DAY 27
643-52 8124
$\begin{array}{llll}642 & -47 & 9 & 99\end{array}$
$\begin{array}{llll}641 & -42 & 10 & 83\end{array}$
640-40 1176
$640-40 \quad 10 \quad 74$
$\begin{array}{lllll}641 & -37 & 10 & 58\end{array}$
$\begin{array}{lllll}641 & -37 & 11 & 48\end{array}$
$641-3710 \quad 61$

PP TT VV DD DAY 7 $639-519121$
$\begin{array}{llll}638 & -53 & 8 & 116\end{array}$
$\begin{array}{lll}638 & -53 & 9 \\ 130\end{array}$
$637-527127$
$\begin{array}{llll}636 & -54 & 6 & 141\end{array}$
$\begin{array}{llll}635 & -57 & 7 & 138\end{array}$
$\begin{array}{llll}633 & -57 & 8 & 137\end{array}$
$630-57 \quad 7150$
DAY 14
626-67 8158
$\begin{array}{llll}626 & -67 & 7144\end{array}$
$\begin{array}{llll}628 & -66 & 7 & 135\end{array}$
$\begin{array}{llll}627 & -64 & 7135\end{array}$
628-64 8128
$\begin{array}{llll}629 & -64 & 8 & 133\end{array}$
$629-65 \quad 8126$
$630-65 \quad 7130$
DAY 21
$\begin{array}{llll}650 & -54 & 7109\end{array}$
$650-53 \quad 5116$
$649-54 \quad 6114$
648-52 6109
648-53 4119
647-56 5128
$\begin{array}{llll}645 & -57 & 5 & 123\end{array}$
$644-56 \quad 6121$
DAY 28
642-41 972
$\begin{array}{llll}642 & -43 & 9 & 65\end{array}$
$\begin{array}{llll}644 & -46 & 7 & 92\end{array}$
$\begin{array}{llll}646 & -45 & 5 & 95\end{array}$
$\begin{array}{llll}647 & -45 & 4 & 107\end{array}$
$\begin{array}{llll}648 & -49 & 3 & 131\end{array}$
648-52 3154
$647-554150$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-57.7$ Std dev $=6.0$ MAX $=-36.5$ at 1640 GMT ON day 27 MIN $=-68.6$ at 1730 GMt ON DAY 15
* theta (K) * MEAN $=245.11$
* PRESSURE (MB) * MEAN $=637.3$ STD DEV $=7.2$ MAX $=650.5$ AT 2200 GMT ON DAY 20 MIN $=619.3$ AT 1450 GMT ON DAY 8
* WINDS (M/S) * MEAN $=7.0 \mathrm{StD}$ DEV $=1.9$ RESULTANT $=6.5$ FROM 128. CONSTANCY $=0.94 \mathrm{MAX}=14.5$ FROM 279 . at 740 GMT DAY 27
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 3 & 5 & 25 & 49 & 17 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$



PP TT VV DD DAY 7
628-70 7148
$629-707133$
$629-70 \quad 8143$
$630-71 \quad 8 \quad 137$
$631-70 \quad 7135$
$\begin{array}{llll}631 & -69 & 7 & 131\end{array}$
$\begin{array}{llll}632 & -69 & 7 & 133\end{array}$
$632-68 \quad 6 \quad 123$
DAY 14
$\begin{array}{llll}628 & -62 & 8 & 145\end{array}$
$\begin{array}{llll}628 & -64 & 8 & 128\end{array}$
628-63 9 123
$\begin{array}{llll}629 & -62 & 9 & 126\end{array}$
$\begin{array}{llll}630 & -61 & 11 & 116\end{array}$
631-62 10114
$\begin{array}{llll}633 & -61 & 9 & 120\end{array}$
634-61 10110
DAY 21
636-51 8105
634-50 $11 \begin{array}{llll}69 & 99\end{array}$
$634-4910103$
$633-5010109$
$\begin{array}{llll}634 & -50 & 8 & 95\end{array}$
$\begin{array}{llll}634 & -54 & 7 & 110\end{array}$
635-56 7120
$636-55 \quad 7106$
DAY 28
624-59 10155
$\begin{array}{llll}622 & -60 & 9 & 154\end{array}$
$\begin{array}{llll}620 & -61 & 9 & 145\end{array}$
618-62 11154
616-63 8150
$\begin{array}{llll}615 & -64 & 7151\end{array}$
$\begin{array}{llll}614 & -64 & 8 & 157\end{array}$
$\begin{array}{lll}614 & -63 & 8 \\ 150\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-61.4$ Std dev $=4.3$ MAX $=-49.2$ at 410 gmt on day 21 min $=-70.8$ at 350 GMt on day 7
* THETA (K) * MEAN $=241.68$
* PRESSURE (MB) * MEAN $=630.2$ STD DEV $=6.4$ MAX $=640.0$ at 600 GMT ON DAY 16 MIN $=613.7$ AT 2320 GMT ON DAY 28
* WINDS (M/S) * MEAN $=6.8$ STD DEV $=1.9$ RESULTANT $=6.5$ FROM 134. CONSTANCY $=0.95$ MAX $=12.2$ FROM 114. AT 1320 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: $\begin{array}{lllllllllllllllllll}1 & 5 & 28 & 40 & 23 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 1 & 27 & 47 & 22 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

DAY 15
$\begin{array}{lllll}00 & 634 & -60 & 5 & 152\end{array}$
$\begin{array}{lllll}03 & 633 & -62 & 4 & 158\end{array}$
$\begin{array}{lllll}06 & 632 & -62 & 5 & 143\end{array}$
$\begin{array}{lllll}09 & 631 & -63 & 5 & 141\end{array}$
$\begin{array}{lllll}2 & 630 & -64 & 6 & 140\end{array}$
$\begin{array}{lllll}5 & 629 & -64 & 6 & 137\end{array}$
$\begin{array}{lllll}18 & 629 & -62 & 6 & 133\end{array}$
$\begin{array}{lllll}21 & 630 & -64 & 6 & 135\end{array}$ DAY 22
$\begin{array}{lllll}00 & 656 & -45 & 10 & 134\end{array}$ $\begin{array}{lllll}03 & 655 & -45 & 11 & 137\end{array}$ $\begin{array}{llll}06 & 655 & -44 & 11 \\ 131\end{array}$
$\begin{array}{lllll}09 & 656 & -47 & 12 & 131\end{array}$
$\begin{array}{lllll}2 & 656 & -48 & 13 & 130\end{array}$
$\begin{array}{lllll}15 & 656 & -48 & 11 & 130\end{array}$
$\begin{array}{lllll}18 & 654 & -48 & 15 & 145\end{array}$
$\begin{array}{lllll}21 & 653 & -47 & 14 & 141\end{array}$ DAY 29
$\begin{array}{lllll}00 & 635 & -63 & 5 & 127\end{array}$
$\begin{array}{lllll}03 & 635 & -63 & 5 & 126\end{array}$
$\begin{array}{lllll}06 & 634 & -62 & 5 & 130\end{array}$
$\begin{array}{lllll}09 & 634 & -61 & 5 & 121\end{array}$
$\begin{array}{lllll}12 & 634 & -61 & 4 & 117\end{array}$
$\begin{array}{lllll}15 & 634 & -62 & 5 & 123\end{array}$
$\begin{array}{lllll}18 & 633 & -61 & 4 & 116\end{array}$
$\begin{array}{lllll}21 & 633 & -63 & 4 & 123\end{array}$
 DAY 2
631-61 7130 632-61 6119 634-62 5124 635-64 5127 $636-656133$ $636-65 \quad 6 \quad 130$ $637-66 \quad 6 \quad 133$ $\begin{array}{llll}638 & -66 & 5 & 131\end{array}$ DAY 9
630-66 $8 \quad 157$ 629-62 9150
629 -62 $8 \quad 154$
$\begin{array}{llll}628 & -61 & 10 & 154\end{array}$
$\begin{array}{llll}628 & -61 & 10 & 157\end{array}$
$627-60 \quad 9148$
$\begin{array}{llll}627 & -61 \quad 9140\end{array}$
626-62 11138 DAY 16
$\begin{array}{llll}631 & -64 & 5 & 147\end{array}$
$\begin{array}{llll}633 & -66 & 5 & 151\end{array}$
$\begin{array}{llll}634 & -66 & 5 & 148\end{array}$
$636-67 \quad 4159$ 638-68 5161

643-67 4169
647-66 4158 DAY 23

653-47 15140
$\begin{array}{llll}653 & -47 & 15 & 127\end{array}$
$653-4712134$
$\begin{array}{llll}653 & -48 & 10 & 148\end{array}$
$653-49 \quad 13145$
$\begin{array}{llll}652 & -48 & 10 & 148\end{array}$
$\begin{array}{llll}651 & -48 & 11 & 137\end{array}$
649-50 9143 DAY 30
633-65 4124
632-66 4130
$\begin{array}{llll}632 & -66 \quad 4 & 133\end{array}$
631-66 4138
631-65 4128
631-65 4143
631-67 4138
631-69 3157

DAY 4
$\begin{array}{llll}638 & -64 & 6 & 128\end{array}$
638-63 6128 639 -64 6126 639-64 7131 $640-64 \quad 6127$ $\begin{array}{llll}640 & -64 & 7 & 137\end{array}$ 641 -65 6131
$641 \quad-64 \quad 6126$ DAY 11
$\begin{array}{llll}624 & -68 & 7141\end{array}$
$\begin{array}{llll}625 & -69 & 8 & 143\end{array}$
$625-696143$
$\begin{array}{llll}626 & -69 & 6 & 143\end{array}$
$\begin{array}{llll}626 & -69 & 7 & 147\end{array}$
$\begin{array}{llll}627 & -68 & 8 & 154\end{array}$
$\begin{array}{llll}628 & -68 & 7 & 161\end{array}$
629-67 7150 DAY 18
$\begin{array}{llll}660 & -38 & 7 & 58\end{array}$
$\begin{array}{llll}661 & -37 & 9 & 57\end{array}$
661-35 $12 \quad 62$
662-34 1160
$\begin{array}{llll}662 & -35 & 10 & 54\end{array}$
$\begin{array}{llll}664 & -35 & 13 & 65\end{array}$
$\begin{array}{llll}665 & -38 & 6 & 86\end{array}$
$665-40 \quad 9 \quad 81$
DAY 25
$\begin{array}{llll}648 & -48 & 11 & 130\end{array}$
648-49 10135
$\begin{array}{llll}647 & -49 & 13 & 121\end{array}$
$\begin{array}{llll}646 & -48 & 11 & 124\end{array}$
$\begin{array}{llll}645 & -48 & 11 & 114\end{array}$
$\begin{array}{llll}644 & -48 & 15 & 127\end{array}$
$\begin{array}{llll}644 & -48 & 13 & 117\end{array}$
$\begin{array}{llll}643 & -47 & 14 & 119\end{array}$

PP TT VV DD PP TT VV DD PP TT VV DD DAY 6

644-62 6130
644-61 7135
642-62 8140
641-60 7138
$\begin{array}{llll}640 & -60 & 8 & 143\end{array}$
$\begin{array}{llll}638 & -58 & 7147\end{array}$
$\begin{array}{llll}636 & -59 & 6 & 145\end{array}$
634-60 5150
DAY 13
$\begin{array}{llll}635 & -63 & 6 & 133\end{array}$
$\begin{array}{llll}634 & -62 & 7 & 123\end{array}$
$\begin{array}{llll}633 & -62 & 6 & 126\end{array}$
$\begin{array}{llll}633 & -62 & 6 & 128\end{array}$
$\begin{array}{llll}633 & -62 & 6 & 137\end{array}$
$\begin{array}{llll}633 & -63 & 8 & 140\end{array}$
$\begin{array}{llll}634 & -61 & 8 & 130\end{array}$
635-61 5150
DAY 20
660-36 12123
659 -39 13121
659 -39 15121
659-40 17121
$\begin{array}{llll}660 & -42 & 13 & 121\end{array}$
660-44 15130
$\begin{array}{llll}660 & -43 & 15 & 120\end{array}$
$660-4216119$ DAY 27
$\begin{array}{llll}641 & -51 & 9 & 99\end{array}$
$\begin{array}{llll}641 & -53 & 6 & 117\end{array}$
$\begin{array}{llll}640 & -52 & 6 & 114\end{array}$
$\begin{array}{llll}640 & -53 & 6 & 114\end{array}$
$\begin{array}{llll}639 & -53 & 5 & 110\end{array}$
$\begin{array}{llll}639 & -55 & 4 & 121\end{array}$
$\begin{array}{llll}638 & -55 & 5 & 110\end{array}$
$\begin{array}{llll}638 & -57 & 4 & 121\end{array}$

PP TT VV DD DAY 7
632-62 5166
$\begin{array}{llll}629 & -61 & 6 & 168\end{array}$
$\begin{array}{llll}627 & -63 & 7158\end{array}$
$\begin{array}{llll}625 & -64 & 8 & 162\end{array}$
$\begin{array}{llll}624 & -64 & 8 & 159\end{array}$
$\begin{array}{llll}623 & -63 & 8 & 166\end{array}$
$\begin{array}{llll}623 & -63 & 7151\end{array}$
622-64 9152 DAY 14
$\begin{array}{llll}636 & -62 & 6 & 143\end{array}$
$\begin{array}{llll}637 & -63 & 4 & 152\end{array}$
637-64 5159
$636-64 \quad 5158$
636-64 4154
636-64 4159
635-64 5157
635-61 4155 DAY 21

660-44 12127
661-45 12126
660-44 11126
$660-4315126$
$659-43 \quad 13133$
658 -42 15134
$657-4213127$
$656-4210131$ DAY 28
$\begin{array}{llll}638 & -59 & 4 & 128\end{array}$
$\begin{array}{llll}637 & -60 \quad 4 & 131\end{array}$
$\begin{array}{llll}637 & -60 \quad 4 & 133\end{array}$
$\begin{array}{llll}637 & -61 & 4 & 128\end{array}$
$\begin{array}{llll}637 & -61 \quad 4 & 127\end{array}$
$\begin{array}{llll}637 & -62 & 5 & 120\end{array}$
$\begin{array}{llll}636 & -63 & 5124\end{array}$
636-62 4123

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-57.4$ STD DEV $=9.4$ MAX $=-33.8$ AT 940 GMT ON DAY 18 MIN $=-70.6$ AT 800 GMT ON.DAY 12
* THETA (K) * MEAN $=245.09$
* PRESSURE (MB) * MEAN $=640.2$ STD DEV $=11.8$ MAX $=665.9$ AT 30 GMT ON DAY 19 MIN $=622.1$ AT 2130 GMT ON DAY 7
* WINDS (M/S) * MEAN $=7.7$ STD DEV $=3.1$ RESULTANT $=7.2$ FROM 130. CONSTANCY $=0.93$ MAX $=17.5$ FROM 135. AT 1900 GMT DAY 21
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 16 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$

$\begin{array}{lllllllllllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 3 & 3 & 16 & 54 & 21 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV
DAY 1
$\begin{array}{lllll}00 & 630 & -70 & 4 & 165\end{array}$
$\begin{array}{lllll}03 & 630 & -71 & 4 & 165\end{array}$
$\begin{array}{lllll}06 & 630 & -71 & 3 & 168\end{array}$
$\begin{array}{lllll}09 & 630 & -68 & 5 & 188\end{array}$
$\begin{array}{lllll}12 & 630 & -68 & 5 & 172\end{array}$
$\begin{array}{lllll}15 & 630 & -69 & 5 & 165\end{array}$
$\begin{array}{lllll}18 & 630 & -68 & 6 & 173\end{array}$
$\begin{array}{lllll}21 & 630 & -67 & 7 & 180\end{array}$ DAY 8
$\begin{array}{lllll}00 & 624 & -65 & 7 & 117\end{array}$
$\begin{array}{lllll}03 & 624 & -64 & 7 & 123\end{array}$
$\begin{array}{lllll}06 & 623 & -62 & 8 & 120\end{array}$
$\begin{array}{lllll}09 & 623 & -60 & 7 & 117\end{array}$
$\begin{array}{lllll}12 & 623 & -59 & 8 & 113\end{array}$
$\begin{array}{lllll}15 & 623 & -60 & 8 & 121\end{array}$
$\begin{array}{lllll}18 & 622 & -60 & 7 & 121\end{array}$
$\begin{array}{lllll}21 & 621 & -61 & 7 & 126\end{array}$ DAY 15
$\begin{array}{lllll}00 & 626 & -70 & 5 & 124\end{array}$
$\begin{array}{lllll}03 & 627 & -70 & 6 & 127\end{array}$
$\begin{array}{lllll}06 & 628 & -69 & 5 & 127\end{array}$
$\begin{array}{lllll}09 & 629 & -68 & 6 & 130\end{array}$
$\begin{array}{lllll}12 & 630 & -67 & 6 & 133\end{array}$
$\begin{array}{lllll}15 & 630 & -67 & 6 & 130\end{array}$
$\begin{array}{lllll}18 & 630 & -65 & 7 & 124\end{array}$
$\begin{array}{lllll}21 & 630 & -64 & 9 & 119\end{array}$ DAY 22
$\begin{array}{lllll}00 & 621 & -64 & 5 & 110\end{array}$
$\begin{array}{lllll}03 & 622 & -65 & 5 & 114\end{array}$
$\begin{array}{lllll}06 & 622 & -65 & 5 & 127\end{array}$
$\begin{array}{lllll}09 & 623 & -65 & 4 & 121\end{array}$
$\begin{array}{lllll}12 & 623 & -64 & 4 & 117\end{array}$
$\begin{array}{lllll}15 & 623 & -63 & 4 & 112\end{array}$
$\begin{array}{lllll}18 & 624 & -62 & 3 & 103\end{array}$
$\begin{array}{lllll}21 & 624 & -64 & 4 & 119\end{array}$ DAY 29
$\begin{array}{lllll}00 & 628 & -58 & 5 & 195\end{array}$
$\begin{array}{lllll}03 & 628 & -59 & 3 & 190\end{array}$
$\begin{array}{lllll}06 & 627 & -59 & 5 & 178\end{array}$
$\begin{array}{lllll}09 & 627 & -61 & 5 & 175\end{array}$
$\begin{array}{lllll}12 & 627 & -61 & 4 & 189\end{array}$
$\begin{array}{lllll}15 & 626 & -60 & 6 & 183\end{array}$
$\begin{array}{lllll}18 & 626 & -61 & 5 & 165\end{array}$
$\begin{array}{lllllllllll}21 & 625 & -61 & 4 & 154 & 625 & -58 & 5 & 128\end{array}$

PP TT VV DD PP TT VV DD DAY 2
629 -66 8176
$\begin{array}{llll}628 & -66 & 7 & 171\end{array}$
$\begin{array}{llll}628 & -64 & 7 & 176\end{array}$
627-65 10165
$\begin{array}{lllll}627 & -64 & 10 & 173\end{array}$
$\begin{array}{llll}627 & -63 & 9 & 164\end{array}$
$\begin{array}{llll}627 & -62 \quad 9 & 157\end{array}$
627-62 10155
DAY 9
$621-61 \quad 6123$
$\begin{array}{llll}621 & -62 \quad 6128\end{array}$
$\begin{array}{llll}620 & -64 & 6 \quad 130\end{array}$
$\begin{array}{llll}619 & -64 \quad 6 \quad 117\end{array}$
$619-64 \quad 5 \quad 123$
$\begin{array}{llll}619 & -66 \quad 5 \quad 112\end{array}$
$\begin{array}{llll}618 & -65 \quad 4 & 121\end{array}$
$618-66 \quad 4 \quad 109$
DAY 16
$\begin{array}{llll}630 & -64 & 9 & 124\end{array}$
$\begin{array}{llll}630 & -62 & 9 & 123\end{array}$
$\begin{array}{llll}629 & -59 & 8 & 117\end{array}$
$\begin{array}{cccc}629 & -55 \quad 10 \quad 100\end{array}$
$\begin{array}{llll}629 & -53 & 10 \quad 99\end{array}$
629-50 10106
$\begin{array}{llll}630 & -49 & 14 & 96\end{array}$
630-48 $9 \quad 93$

$$
\text { DAY } 23
$$

$\begin{array}{llll}624 & -65 & 4 & 120\end{array}$
$\begin{array}{llll}623 & -66 \quad 4 & 127\end{array}$
$\begin{array}{llll}623 & -68 & 4 & 137\end{array}$
$\begin{array}{llll}623 & -69 & 3 & 141\end{array}$
623-70 4143
623-71 5140
623-71 5150
$623-714144$
DAY 30
626-62 4166
$\begin{array}{llll}625 & -62 \quad 4 \quad 165\end{array}$
$\begin{array}{llll}625 & -62 \quad 5 \quad 155\end{array}$
$\begin{array}{llll}625 & -62 \quad 5 & 148\end{array}$
$\begin{array}{llll}625 & -61 & 5 & 133\end{array}$
$\begin{array}{llll}625 & -60 \quad 5 \quad 131\end{array}$
$\begin{array}{llll}625 & -59 & 6 & 137\end{array}$
$\begin{array}{llll}625 & -58 & 5 & 128\end{array}$

DAY 3
627-62 10155
$\begin{array}{llll}627 & -63 & 9 & 157\end{array}$
627-64 9144
$627-64 \quad 9150$
$\begin{array}{llll}627 & -64 & 9 & 154\end{array}$
$\begin{array}{llll}626 & -62 & 8 & 140\end{array}$
626-62 10140
627-64 $8 \quad 130$ DAY 10
617-67 4109
$\begin{array}{llll}617 & -68 & 5 & 120\end{array}$
$\begin{array}{llll}617 & -69 & 5 & 137\end{array}$
617-70 4127
618-70 5133
618-71 4124
618-71 5137
618-71 4145 DAY 17
$\begin{array}{llll}630 & -46 & 11 & 89\end{array}$
$\begin{array}{llll}631 & -48 & 10 & 93\end{array}$
$\begin{array}{llll}631 & -48 & 12 & 92\end{array}$
$\begin{array}{lllll}632 & -51 & 10 & 106\end{array}$
633-49 10100
$\begin{array}{llll}633 & -48 & 9 & 99\end{array}$
$\begin{array}{llll}634 & -50 & 10 & 95\end{array}$
635-50 $10 \quad 96$ DAY 24
624-71 5152
624-70 6155
$\begin{array}{llll}625 & -69 & 7 & 154\end{array}$
$\begin{array}{llll}626 & -69 & 7150\end{array}$
$\begin{array}{llll}626 & -67 & 8 & 154\end{array}$
$\begin{array}{llll}627 & -67 & 7152\end{array}$
$\begin{array}{llll}629 & -67 & 9 & 155\end{array}$
630-66 8162 DAY 31
$\begin{array}{llll}626 & -57 & 5 & 133\end{array}$
$\begin{array}{llll}626 & -58 & 5 & 137\end{array}$
626-58 $\quad 4 \quad 137$
$\begin{array}{llll}626 & -58 & 5 & 152\end{array}$
$\begin{array}{llll}626 & -58 & 4 & 162\end{array}$
$\begin{array}{lllll}626 & -57 & 4 & 169\end{array}$
$\begin{array}{llll}625 & -57 & 5 & 164 \\ 625 & -56 & 6 & 173\end{array}$

PP TT VV DD PP TT VV DD PP TT VV DD DAY 5
629-68 7133
$\begin{array}{llll}628 & -69 & 7137\end{array}$
$629-70 \quad 5145$
$629-71 \quad 5148$
629-72 6152
$629-73 \quad 5148$
$629-74 \quad 6150$
$630-73 \quad 5148$ DAY 12
$\begin{array}{llll}621 & -69 & 8 & 145\end{array}$
$\begin{array}{llll}620 & -68 & 5 & 137\end{array}$
$619-68 \quad 6145$
$\begin{array}{lll}617 & -69 & 9 \\ 141\end{array}$
$616-6910144$
$\begin{array}{llll}615 & -69 & 9 & 137\end{array}$
615-68 11137
614-67 10126 DAY 19
634-55 7112
$\begin{array}{llll}634 & -54 & 8 & 92\end{array}$
$\begin{array}{llll}634 & -55 & 7 & 98\end{array}$
$\begin{array}{llll}634 & -54 & 5 & 90\end{array}$
633-59 4110
$632-59 \quad 4116$
$\begin{array}{llll}632 & -60 & 4 & 119\end{array}$
630-61 4124 DAY 26
636-54 6200
$635-52 \quad 6 \quad 197$
$\begin{array}{llll}635 & -55 & 6190\end{array}$
$635-567178$
$635-55 \quad 7182$
$636-55 \quad 6182$
$635-56 \quad 4 \quad 213$
$\begin{array}{llll}635 & -56 & 5 & 168\end{array}$

PP TT WV DD
DAY 7
632-71 5144
631 -71 5144
631 -71 5134
$\begin{array}{llll}630 & -71 & 5 & 135\end{array}$
628 -71 6137
$\begin{array}{llll}627 & -70 & 6130\end{array}$
$\begin{array}{llll}626 & -68 \quad 6 \quad 126\end{array}$
$\begin{array}{llll}625 & -67 & 8 & 203\end{array}$ DAY 14
$\begin{array}{llll}615 & -67 & 7133\end{array}$
$\begin{array}{llll}616 & -67 & 7124\end{array}$
$\begin{array}{llll}617 & -66 & 7126\end{array}$
$\begin{array}{llll}619 & -67 & 6 & 123\end{array}$
$\begin{array}{llll}620 & -68 & 7 & 121\end{array}$
$\begin{array}{llll}622 & -69 & 6 & 121\end{array}$
$623-69 \quad 6 \quad 123$
$625-69 \quad 6 \quad 121$
DAY 21
$\begin{array}{llll}622 & -65 & 5 & 126\end{array}$
$\begin{array}{lll}621 & -65 & 5 \\ 126\end{array}$
$\begin{array}{llll}621 & -64 & 6 & 121\end{array}$
$\begin{array}{lll}621 & -64 & 5\end{array} 117$
$\begin{array}{llll}621 & -63 & 7 & 117\end{array}$
$\begin{array}{llll}620 & -63 & 6 & 114\end{array}$
$\begin{array}{lll}621 & -63 & 5\end{array} 110$
$\begin{array}{lll}621 & -63 & 5114\end{array}$
DAY 28
$\begin{array}{llll}627 & -60 & 7166\end{array}$
$\begin{array}{llll}626 & -60 \quad 6 \quad 175\end{array}$
$\begin{array}{llll}626 & -62 \quad 8 \quad 180\end{array}$
$\begin{array}{llll}626 & -62 \quad 6 \quad 175\end{array}$
$626-61 \quad 7159$
$627-59 \quad 6 \quad 166$
$\begin{array}{llll}628 & -60 & 6 & 171\end{array}$
$628-60 \quad 6 \quad 168$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-63.2$ Std dev $=6.5$ max $=-45.1$ at 950 GMT ON day 18 min $=-73.8$ at 1750 GMT ON DAY 5
* theta (K) * MEAN $=240.07$
* PRESSURE (MB) * MEAN $=626.2$ STD DEV $=5.5$ MAX $=635.8$ at 1130 GMT ON DAY 18 MIN $=613.9$ AT 1510 GMT ON DAY 13
* WINDS (M/S) * MEAN $=6.5$ STD DEV $=2.1$ RESULTANT $=5.8$ FROM 138. CONSTANCY $=0.89$ MAX $=13.5$ FROM 96. AT 1800 GMT DAY 16
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 8 & 19 & 35 & 22 & 13 & 4 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

AUG 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 624 & -56 & 6 & 172\end{array}$ $\begin{array}{lllll}03 & 623 & -58 & 7 & 166\end{array}$ $\begin{array}{lllll}06 & 623 & -59 & 8 & 162\end{array}$ $\begin{array}{lllll}09 & 623 & -60 & 10 & 169\end{array}$ $\begin{array}{llllll}12 & 623 & -60 & 12 & 164\end{array}$ $\begin{array}{lllll}15 & 622 & -60 & 11 & 165\end{array}$ $\begin{array}{llllll}18 & 620 & -57 & 12 & 166\end{array}$ $\begin{array}{lllll}21 & 619 & -57 & 16 & 158\end{array}$ DAY 8
$\begin{array}{lllll}00 & 620 & -58 & 14 & 117\end{array}$ $\begin{array}{lllll}03 & 619 & -55 & 13 & 114\end{array}$ $\begin{array}{lllll}06 & 619 & -53 & 15 & 113\end{array}$ $\begin{array}{lllll}09 & 618 & -53 & 11 & 119\end{array}$ $\begin{array}{lllll}12 & 618 & -53 & 15 & 120\end{array}$ $\begin{array}{lllll}15 & 619 & -52 & 13 & 124\end{array}$ $\begin{array}{lllll}18 & 619 & -52 & 12 & 134\end{array}$
$\begin{array}{llllll}21 & 621 & -53 & 10 & 143\end{array}$ DAY 15
$\begin{array}{lllll}00 & 637 & -62 & 5 & 147\end{array}$
$\begin{array}{lllll}03 & 636 & -64 & 5 & 144\end{array}$
$\begin{array}{lllll}06 & 635 & -65 & 5 & 152\end{array}$
$\begin{array}{lllll}09 & 634 & -67 & 4 & 152\end{array}$
$\begin{array}{lllll}12 & 633 & -68 & 5 & 148\end{array}$
$\begin{array}{lllll}15 & 633 & -69 & 6 & 147\end{array}$
$\begin{array}{lllll}18 & 633 & -69 & 5 & 138\end{array}$
$\begin{array}{lllll}21 & 633 & -69 & 6 & 138\end{array}$ DAY 22
$\begin{array}{lllll}00 & 634 & -66 & 9 & 119\end{array}$
$\begin{array}{lllll}03 & 634 & -65 & 8 & 119\end{array}$
$\begin{array}{lllll}06 & 634 & -65 & 8 & 121\end{array}$
$\begin{array}{lllll}09 & 634 & -63 & 7 & 114\end{array}$
$\begin{array}{lllll}12 & 634 & -64 & 8 & 123\end{array}$
$\begin{array}{lllll}15 & 633 & -63 & 8 & 119\end{array}$
$\begin{array}{lllll}18 & 633 & -62 & 9 & 112\end{array}$
$\begin{array}{llll}21 & 632 & -62 & 7113\end{array}$ DAY 29
$\begin{array}{lllll}00 & 621 & -57 & 10 & 117\end{array}$
$\begin{array}{lllll}03 & 621 & -57 & 9 & 126\end{array}$
$\begin{array}{lllll}06 & 620 & -58 & 9 & 123\end{array}$
$\begin{array}{lllll}09 & 620 & -57 & 9 & 119\end{array}$
$\begin{array}{llllll}12 & 619 & -57 & 10 & 134\end{array}$
$\begin{array}{lllll}15 & 618 & -58 & 9 & 134\end{array}$
$\begin{array}{lllll}18 & 618 & -59 & 9 & 134\end{array}$
$\begin{array}{lllll}21 & 618 & -60 & 8 & 124\end{array}$


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-60.2$ Std dev $=5.5$ MAX $=-44.9$ at 510 GMT ON DAY 13 MIN $=-73.6$ AT 50 GMT ON DAY 6
* theta (K) * MEAN $=243.21$
* PRESSURE (MB) * MEAN $=628.9$ STD DEV $=7.5$ MAX $=648.8$ at 1440 GMT ON DAY 13 MIN $=617.8$ AT 2150 GMT ON DAY 29 * WINDS (M/S) * MEAN $=7.9$ STD DEV $=2.6$ RESULTANT $=7.5$ FROM 129. CONSTANCY $=0.95$ MAX $=17.3$ FROM 107. AT 520 GMT DAY 8 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W UNW NW NNW
PERCENT

SEP 97

| HR | PP | TT | vV | DD | PP | IT |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 622 | -57 | 11 | 121 | 628 | -59 | 9 | 119 | 624 | -64 | 10 | 147 |
| 03 | 622 | -59 | 12 | 121 | 629 | -59 | 10 | 120 | 623 | -63 | 10 | 140 |
| 06 | 623 | -58 | 10 | 114 | 629 | -58 | 10 | 117 | 622 | -59 | 9 | 128 |
| 09 | 623 | -57 | 11 | 130 | 630 | -56 | 8 | 123 | 622 | -56 | 9 | 127 |
| 12 | 624 | -58 | 11 | 128 | 630 | -56 | 8 | 121 | 623 | -55 | 8 | 121 |
| 15 | 625 | -59 | 9 | 130 | 629 | -60 | 8 | 134 | 624 | -56 | 9 | 114 |
| 18 | 626 | -60 | 10 | 135 | 627 | -62 | 8 | 147 | 625 | -55 | 7 | 103 |
| 21 | 627 | -59 | 11 | 121 | 626 | -62 | 10 | 148 | 626 | -55 | 9 | 114 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 624 | -65 | 11 | 144 | 619 | -62 | 10 | 162 | 622 | -66 | 10 | 143 |
| 03 | 624 | -65 | 11 | 141 | 618 | -61 | 11 | 157 | 623 | -66 | 10 | 150 |
| 06 | 623 | -65 | 11 | 143 | 618 | -61 | 12 | 154 | 624 | -65 | 8 | 140 |
| 09 | 622 | -63 | 8 | 138 | 618 | -59 | 12 | 154 | 624 | -62 | 7 | 141 |
| 12 | 621 | -63 | 9 | 143 | 618 | -60 | 14 | 152 | 625 | -61 | . 6 | 147 |
| 15 | 621 | -64 | 8 | 144 | 619 | -62 | 14 | 148 | 626 | -64 | 6 | 148 |
| 18 | 621 | -64 | 9 | 143 | 620 | -65 | 13 | 144 | 626 | -64 | 6 | 152 |
| 21 | 620 | -63 | 9 | 154 | 621 | -66 | 11 | 155 | 627 | -65 | 7 | 147 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 624 | -67 | 8 | 143 | 632 | -61 | 12 | 162 | 633 | -59 | 11 | 152 |
| 03 | 625 | -67 | 8 | 144 | 633 | -60 | 10 | 157 | 631 | -58 | 11 | 155 |
| 06 | 627 | -66 | 8 | 148 | 634 | -58 | 14 | 158 | 629 | -56 | 12 | 158 |
| 09 | 628 | -65 | 9 | 151 | 634 | -57 | 11 | 152 | 627 | -55 | 13 | 143 |
| 12 | 629 | -63 | 10 | 155 | 634 | -57 | 11 | 147 | 625 | -55 | 12 | 145 |
| 15 | 630 | -63 | 14 | 151 | 635 | -59 | 11 | 152 | 625 | -57 | 13 | 137 |
| 18 | 631 | -62 | 11 | 151 | 635 | -60 | 10 | 155 | 624 | -58 | 11 | 144 |
| 21 | 632 | -62 | 11 | 157 | 634 | -60 | 9 | 159 | 624 | -59 | 15 | 144 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 631 | -63 | 7 | 141 | 628 | -64 | 10 | 145 | 631 | -50 | 16 | 126 |
| 03 | 630 | -63 | 8 | 152 | 629 | -64 | 11 | 145 | 631 | -48 | 17 | 241 |
| 06 | 629 | -60 | 10 | 155 | 629 | -62 | 13 | 143 | 632 | -49 | 18 | 117 |
| 09 | 628 | -58 | 10 | 148 | 630 | -60 | 12 | 137 | 632 | -49 | 19 | 120 |
| 12 | 628 | -58 | 10 | 154 | 630 | -57 | 14 | 130 | 632 | -50 | 12 | 119 |
| 15 | 627 | -61 | 10 | 145 | 630 | -57 | 14 | 128 | 632 | -52 | 12 | 128 |
| 18 | 627 | -62 | 11 | 143 | 631 | -54 | 14 | 127 | 632 | -54 | 12 | 119 |
| 21 | 628 | -63 | 14 | 140 | 631 | -53 | 16 | 123 | 632 | -55 | 12 | 124 |

$\begin{array}{lllll}00 & 635 & -51 & 8 & 105\end{array}$
$\begin{array}{lllll}03 & 634 & -51 & 8 & 110\end{array}$
$\begin{array}{lllll}06 & 633 & -47 & 9 & 113\end{array}$
$\begin{array}{lllll}09 & 633 & -44 & 8 & 110\end{array}$
$\begin{array}{lllll}12 & 632 & -45 & 7 & 120\end{array}$
$\begin{array}{lllll}15 & 632 & -50 & 7 & 126\end{array}$
$\begin{array}{lllll}18 & 633 & -54 & 6 & 135\end{array}$
$\begin{array}{lllll}21 & 633 & -56 & 5 & 126\end{array}$

PP TT VV DD DAY 4
$627-55 \quad 7100$
$628-567114$
$\begin{array}{llll}630 & -55 & 6 & 114\end{array}$
$631-57 \quad 5123$
$632-58 \quad 4133$
634-62 6154
$\begin{array}{llll}636 & -63 & 5 & 164\end{array}$
$638-63 \quad 5154$ DAY 11
$627 \quad 65 \quad 5151$
$\begin{array}{lll}627 & -65 \quad 7143\end{array}$
$627-64 \quad 6140$
628-61 7150
628-61 5145
$\begin{array}{lll}628 & -64 & 5 \\ 145\end{array}$
$\begin{array}{lll}627 & -65 \quad 5151\end{array}$
$\begin{array}{lll}627 & -67 \quad 5159\end{array}$ DAY 18
$623-5814148$
$623-5615144$
622-55 13144
$621-5215148$
$620-5215138$ $620-5516141$ $620-5814144$ $621-6113138$ DAY 25
$633-5414116$ $633-5412110$ $633-5411119$ $\begin{array}{llll}634 & -50 & 9 & 113\end{array}$ $\begin{array}{llll}634 & -51 & 8 & 117\end{array}$ $\begin{array}{llll}635 & -56 & 7120\end{array}$ 636-60 6121 $638-62 \quad 6124$

PP TT WV DD DAY 5
640-63 6162
$\begin{array}{lll}641 & -63 & 5154\end{array}$
642 -62 5155
$\begin{array}{llll}643 & -59 & 5 & 152\end{array}$
$643-58 \quad 6 \quad 161$
$\begin{array}{llll}642 & -58 & 6 & 158\end{array}$
$642-57 \quad 7168$
$\begin{array}{llll}641 & -55 & 9 & 161\end{array}$ DAY 12
626-67 6 159
$\begin{array}{llll}626 & -68 & 6 & 151\end{array}$
625-65 6 147
624-62 6145
624-63 6144
623-66 6140
$\begin{array}{llll}622 & -67 & 6 & 137\end{array}$
621 -68 6137
DAY 19
621-63 15141
$622-6512140$
$623-6411141$
625-62 8137
$\begin{array}{llll}626 & -61 & 8 & 144\end{array}$
$\begin{array}{llll}628 & -65 & 7 & 147\end{array}$
$629-67 \quad 6 \quad 152$
$631-68 \quad 6155$
DAY 26
640-63 6123
$641-64 \quad 6133$
$\begin{array}{llll}642 & -59 & 7 & 133\end{array}$
$\begin{array}{llll}643 & -55 & 7 & 138\end{array}$
$643-547143$
$643-55 \quad 7152$
$643-5710150$
$641-5511144$

PP TT WV DD DAY 6
640-55 7152
$639-57 \quad 6151$
$637-56 \quad 9166$
$635-54 \quad 7162$
634-56 8152
$633-5711154$
$632-58 \quad 11151$
$\begin{array}{llll}631 & -58 & 11 & 157\end{array}$ DAY 13
621-68 6137
$\begin{array}{llll}620 & -69 & 6 & 137\end{array}$
$\begin{array}{llll}620 & -67 & 7 & 143\end{array}$
$\begin{array}{llll}619 & -65 & 5 & 138\end{array}$
$\begin{array}{llll}619 & -65 & 5 & 151\end{array}$
$\begin{array}{llll}619 & -69 & 5 & 148\end{array}$
$619-69 \quad 4137$
619 -70 4143
DAY 20
633-69 8166
$634-70 \quad 5164$
$634-66 \quad 5154$
$\begin{array}{llll}634 & -61 & 4 & 148\end{array}$
$\begin{array}{llll}635 & -59 & 4 & 165\end{array}$
634-62 4155
$\begin{array}{llll}634 & -63 & 5 & 162\end{array}$
$\begin{array}{llll}634 & -63 & 5 & 155\end{array}$ DAY 27
$639-5511154$
$\begin{array}{lllll}638 & -53 & 14 & 137\end{array}$
$\begin{array}{lllll}637 & -51 & 11 & 126\end{array}$
$637-4811123$
$637-4710114$
$637-4912110$
638 -50 10106
638-51 11107

PP TT WV DD DAY 7
$630-5811145$
629-58 11152
$628-5814143$
628-57 12134
$627-58 \quad 10140$
$\begin{array}{lll}627-60 & 10137\end{array}$
$626-62 \quad 9150$
$\begin{array}{llll}625 & -64 & 9 & 148\end{array}$ DAY 14
$619-704140$
$619-715143$
$\begin{array}{llll}619 & -67 & 6 & 141\end{array}$
$\begin{array}{llll}620 & -64 & 6 & 151\end{array}$
$\begin{array}{lll}620 & -63 & 9 \\ 144\end{array}$
$\begin{array}{lll}621 & -66 & 7143\end{array}$
$\begin{array}{llll}621 & -66 & 8 & 144\end{array}$
$\begin{array}{lll}622 & -66 \quad 7141\end{array}$
DAY 21
634-64 4162
$634-65 \quad 5164$
$\begin{array}{llll}634 & -61 & 4 & 171\end{array}$
634-58 4173
$634-56 \quad 4179$
$\begin{array}{llll}633 & -61 & 7172\end{array}$
$\begin{array}{llll}633 & -63 & 7157\end{array}$
$\begin{array}{llll}632 & -64 \quad 7152\end{array}$ DAY 28
$\begin{array}{llll}638 & -52 & 89\end{array}$
$\begin{array}{llll}638 & -52 & 8 & 103\end{array}$
$\begin{array}{llll}638 & -49 & 8 & 102\end{array}$
$\begin{array}{llll}638 & -47 & 7 & 106\end{array}$
$638-45 \quad 6 \quad 110$
$637-49 \quad 5113$
$\begin{array}{llll}637 & -51 \quad 5112\end{array}$
$636-507116$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-59.2$ Std dev $=5.5$ max $=-43.2$ at 950 GMT ON day 29 min $=-70.9$ at 310 GMt ON dAY 14
* theta (K) * MEAN $=244.22$
* PRESSURE (MB) * MEAN $=629.3$ STD DEV $=6.4$ MAX $=643.4$ AT 1250 GMT ON DAY 26 MIN $=617.5$ AT 510 GMT ON DAY 9
* WINDS (M/S) * MEAN $=8.8$ STD DEV $=3.2$ RESULTANT $=8.4$ fROM 140 . CONSTANCY $=0.95$ MAX $=20.3$ FROM 143 . AT 1250 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\begin{array}{lllllllllllllllllll}0 & 2 & 20 & 23 & 20 & 18 & 11 & 4 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { USW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 1 & 19 & 41 & 37 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

OCT 97
$\begin{array}{lllll}\text { HR } & \text { PP } & \text { TT } & \text { VV } & \text { D } \\ & & \text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 635 & -63 & 5 & 148\end{array}$
$\begin{array}{lllll}03 & 636 & -64 & 5 & 151\end{array}$
$\begin{array}{lllll}06 & 637 & -59 & 5 & 154\end{array}$
$\begin{array}{lllll}09 & 638 & -54 & 5 & 152\end{array}$
$\begin{array}{lllll}12 & 639 & -52 & 4 & 154\end{array}$
$\begin{array}{lllll}15 & 639 & -55 & 5 & 154\end{array}$
$\begin{array}{lllll}18 & 639 & -59 & 6 & 161\end{array}$
$\begin{array}{llll}21 & 639 & -58 & 5154\end{array}$ DAY 8
$\begin{array}{lllll}00 & 643 & -42 & 16 & 103\end{array}$
$\begin{array}{lllll}03 & 643 & -41 & 15 & 96\end{array}$
$\begin{array}{lllll}06 & 644 & -41 & 18 & 102\end{array}$
$\begin{array}{lllll}09 & 644 & -38 & 19 & 90\end{array}$
$\begin{array}{lllll}12 & 644 & -38 & 14 & 95\end{array}$
$\begin{array}{lllll}15 & 644 & -41 & 16 & 95\end{array}$
$\begin{array}{lllll}18 & 645 & -41 & 13 & 95\end{array}$
$\begin{array}{lllll}21 & 645 & -41 & 11 & 95\end{array}$ DAY 15
$\begin{array}{lllll}00 & 637 & -54 & 9 & 137\end{array}$
$\begin{array}{llllll}03 & 636 & -52 & 10 & 137\end{array}$
$\begin{array}{llllll}06 & 636 & -47 & 10 & 135\end{array}$
$\begin{array}{llllll}09 & 636 & -43 & 8 & 138\end{array}$
$\begin{array}{lllll}12 & 635 & -41 & 7 & 152\end{array}$
$\begin{array}{lllll}15 & 633 & -45 & 6 & 169\end{array}$
$\begin{array}{lllll}18 & 632 & -51 & 7 & 158\end{array}$
$\begin{array}{lllll}21 & 630 & -54 & 7 & 137\end{array}$ DAY 22
$\begin{array}{llll}00 & 628 & -62 \quad 4 & 140\end{array}$
$\begin{array}{lllll}03 & 629 & -59 & 5 & 145\end{array}$
$\begin{array}{lllll}06 & 630 & -53 & 6 & 135\end{array}$
$\begin{array}{lllll}09 & 630 & -49 & 5 & 141\end{array}$
$\begin{array}{lllll}12 & 631 & -46 & 4 & 150\end{array}$
$\begin{array}{lllll}15 & 631 & -50 & 3 & 162\end{array}$
$\begin{array}{lllll}18 & 630 & -57 & 3 & 161\end{array}$
$\begin{array}{llll}21 & 630 & -59 & 4 \\ 164\end{array}$

$$
\text { DAY } 29
$$

$\begin{array}{lllll}00 & 625 & -60 & 6 & 120\end{array}$
$\begin{array}{lllll}03 & 625 & -57 & 6 & 120\end{array}$
$\begin{array}{lllll}06 & 624 & -51 & 7 & 119\end{array}$
$\begin{array}{lllll}09 & 624 & -47 & 6 & 100\end{array}$
$\begin{array}{lllll}12 & 623 & -45 & 6 & 100\end{array}$
$\begin{array}{lllll}15 & 623 & -49 & 6 & 112\end{array}$
$\begin{array}{lllll}18 & 622 & -54 & 5 & 123\end{array}$
$\begin{array}{lllll}21 & 622 & -58 & 5 & 123\end{array}$

PP TT VV DD PP TT VV DD DAY 2 DAY 3
639-59 7161
637-58 8152
$\begin{array}{llll}636 & -55 & 8 & 148\end{array}$
$635-527155$
$\begin{array}{llll}634 & -50 & 8 & 147\end{array}$
$\begin{array}{llll}632 & -54 & 8 & 145\end{array}$
$\begin{array}{llll}631 & -58 & 8 & 141\end{array}$
629-60 8137 DAY 9
645-40 $14 \quad 93$
645-40 $12 \quad 90$
646-39 $13 \quad 93$
$\begin{array}{llll}646 & -38 & 14 & 81\end{array}$
$\begin{array}{llll}647 & -39 & 13 & 99\end{array}$
646-42 $14 \quad 98$
647-45 9114
646 -46 11117 DAY 16
629-56 7140
$629-567145$
$628-528144$
$629-50 \quad 9141$
$629-50 \quad 8 \quad 140$
629-52 8127
$\begin{array}{lllll}630 & -57 & 7 & 133\end{array}$
$631-607134$
DAY 23
629-62 5154
$\begin{array}{llll}628 & -60 & 7144\end{array}$
628-56 8138
$\begin{array}{llll}627 & -50 & 7131\end{array}$
$\begin{array}{llll}627 & -48 & 7130\end{array}$
626-50 7135
$626-55 \quad 8130$
$625-58 \quad 7128$ DAY 30
$622-59 \quad 5127$
$\begin{array}{llll}622 & -56 & 6119\end{array}$
$622-50 \quad 6 \quad 121$
$\begin{array}{llll}622 & -46 & 7116\end{array}$
$\begin{array}{llll}623 & -44 & 6114\end{array}$
$623-46 \quad 5114$
$\begin{array}{llll}623 & -52 \quad 6117\end{array}$
$623-53 \quad 6121$

629-61 8128
$629-61 \quad 7135$
$\begin{array}{llll}630 & -58 & 9 & 124\end{array}$
$\begin{array}{llll}631 & -55 & 6 & 117\end{array}$
$\begin{array}{llll}632 & -54 & 8 & 114\end{array}$
$633-56 \quad 6116$
$634-59 \quad 6 \quad 116$
$634-58 \quad 9114$ DAY 10
$647-49 \quad 8116$
647-49 9116
$\begin{array}{llll}646 & -46 & 8120\end{array}$
646-42 9117
$646-4010120$
$646-4311126$
$646-4611120$
$\begin{array}{llll}645 & -48 & 8 & 126\end{array}$
DAY 17
$631-618137$
$\begin{array}{llll}630 & -59 & 8 & 137\end{array}$
$\begin{array}{llll}630 & -55 & 8 & 133\end{array}$
$630-50 \quad 7137$
$\begin{array}{llll}630 & -48 & 8 & 128\end{array}$
$\begin{array}{llll}630 & -51 & 8 & 133\end{array}$
$630-55 \quad 8 \quad 131$
$630-56 \quad 8133$ DAY 24
625-60 6140 $\begin{array}{llll}624 & -58 & 7 & 131\end{array}$ $\begin{array}{llll}624 & -53 & 8 & 126\end{array}$ $625-497120$ $\begin{array}{llll}625 & -47 & 7120\end{array}$ $625-50 \quad 7116$ 626-55 7124 627-59 6123 DAY 31
623 -55 6121
$623-53 \quad 7121$
$\begin{array}{llll}623 & -48 & 8 & 117\end{array}$
$\begin{array}{llll}623 & -45 & 8 & 109\end{array}$
$\begin{array}{llll}623 & -43 & 7113\end{array}$
$623-46 \quad 5123$
$\begin{array}{llll}622 & -51 & 5 & 131\end{array}$
$\begin{array}{llll}622 & -56 & 6 & 143\end{array}$

PP TT VV DAY 4
$\begin{array}{llll}634 & -55 & 7107\end{array}$
$634-51 \quad 8 \quad 96$
$\begin{array}{llll}635 & -48 & 9 & 83\end{array}$
$\begin{array}{llll}635 & -44 & 8 & 89\end{array}$
635-42 $8 \quad 81$
$\begin{array}{llll}635 & -44 & 9 & 76\end{array}$
$\begin{array}{llll}635 & -44 & 7 & 71\end{array}$
635-45 978
DAY 11
644-49 11126
$644-4811121$
$643-4610116$
643-42 12112
$642-4015107$
$642-4012100$
$643-4312105$
$643-4511110$ DAY 18
$\begin{array}{llll}630 & -57 & 9 & 124\end{array}$
$\begin{array}{llll}630 & -55 & 8 & 131\end{array}$
$630-51 \quad 9128$
$630-48 \quad 10127$
$\begin{array}{llll}630 & -45 & 9 & 133\end{array}$
$\begin{array}{llll}631 & -48 & 8 & 134\end{array}$
$\begin{array}{llll}631 & -53 & 9 & 138\end{array}$
$631-5610137$ DAY 25
$\begin{array}{llll}627 & -60 \quad 6127\end{array}$
$\begin{array}{lll}628 & -57 & 6124\end{array}$
628-51 5126
628-47 6120
$629-46 \quad 6120$
$629-49 \quad 6 \quad 130$
$629-556143$
$629-59 \quad 6140$

PP TT VV DD PP TT VV DD DAY 5
635-46 $8 \quad 90$
$\begin{array}{llll}635 & -48 & 8 & 99\end{array}$
$\begin{array}{llll}635 & -46 & 8 & 105\end{array}$
$\begin{array}{llll}635 & -44 & 7110\end{array}$
635-43 11107
$635-4610113$
$\begin{array}{cccc}636 & -50 & 9 & 109\end{array}$
636 -52 9113
DAY 12
642-46 12109
642-45 12114
$641-4114105$
641-39 11105
$641-3810106$
$641-4211113$
$\begin{array}{llll}640 & -47 & 9 & 119\end{array}$
$639-4910121$

## DAY 19

$\begin{array}{llll}630 & -57 & 6 & 148\end{array}$
$\begin{array}{llll}630 & -55 & 8 & 147\end{array}$
629-50 10147
629-47 9145
$\begin{array}{llll}628 & -45 & 10 & 150\end{array}$
$\begin{array}{llll}627 & -47 & 9 & 147\end{array}$
$\begin{array}{llll}626 & -53 & 8 & 151\end{array}$
$625-5610155$
DAY 26
$629-60 \quad 5141$
$\begin{array}{llll}628 & -57 & 8 & 138\end{array}$
$\begin{array}{llll}627 & -51 & 7 & 143\end{array}$
627-48 7138
$\begin{array}{llll}626 & -46 & 9 & 148\end{array}$
626-48 8144
$\begin{array}{llll}626 & -54 & 7 & 133\end{array}$
$\begin{array}{lll}626 & -57 & 7130\end{array}$

DAY 6
$\begin{array}{cccc}637 & -528109\end{array}$
$\begin{array}{llll}637 & -52 & 8 & 109\end{array}$
$\begin{array}{llll}637 & -48 & 9 & 99\end{array}$
$\begin{array}{llll}637 & -44 & 10 & 93\end{array}$
$\begin{array}{llll}638 & -42 & 9 & 75\end{array}$
639-42 $10 \quad 76$
640-42 961
$\begin{array}{lll}641 & -42 \quad 1071\end{array}$
DAY 13
$639-4910124$
$\begin{array}{llll}638 & -49 & 9 & 124\end{array}$
$\begin{array}{llll}637 & -45 & 8 & 119\end{array}$
$\begin{array}{llll}637 & -43 & 9 & 117\end{array}$
$\begin{array}{llll}637 & -42 & 8 & 120\end{array}$
$636-45 \quad 9123$
$636-50 \quad 8124$
636-53 8130 DAY 20
624-58 9 151
$623-58 \quad 9151$
$623-5410137$
$622-50 \quad 7135$
622-48 9137
$621-50 \quad 6 \quad 134$
$621-56 \quad 6135$
$621-59 \quad 7134$
DAY 27
626-58 7131
$\begin{array}{llll}626 & -57 & 8 & 133\end{array}$
$\begin{array}{llll}626 & -52 & 7131\end{array}$
$\begin{array}{llll}626 & -48 & 8 & 124\end{array}$
$\begin{array}{llll}626 & -47 & 7120\end{array}$
$\begin{array}{llll}627 & -49 & 6 & 124\end{array}$
$\begin{array}{llll}627 & -54 & 5 & 114\end{array}$
$\begin{array}{llll}627 & -59 & 5117\end{array}$

PP TT VV DD DAY 7
$\begin{array}{llll}642 & -41 & 8 & 69\end{array}$
$\begin{array}{llll}642 & -40 & 8 & 76\end{array}$
$\begin{array}{llll}643 & -38 & 12 \quad 78\end{array}$
$\begin{array}{llll}643 & -37 & 10 & 89\end{array}$
$\begin{array}{llll}643 & -38 & 12 \quad 89\end{array}$
$643-401196$
$643-4213 \quad 95$
$643-4217102$ DAY 14
636-54 7123
$636-539140$
$636-49 \quad 9135$
$636-45 \quad 8135$
$\begin{array}{llll}636 & -43 & 9 & 141\end{array}$
$636-46 \quad 8147$
$\begin{array}{llll}636 & -51 & 9 & 148\end{array}$
$636-5310143$ DAY 21
$621-607143$
$\begin{array}{llll}621 & -58 & 8 & 141\end{array}$
$\begin{array}{lll}621 & -53 & 6131\end{array}$
$\begin{array}{llll}622 & -48 & 7127\end{array}$
$623-46 \quad 4140$
625-50 5131
626-56 0 0
627-60 5150
DAY 28
628-61 4127
628-59 5131
628-53 6124
627-50 5109
$627-46 \quad 4112$
$\begin{array}{llll}626 & -49 & 3121\end{array}$
626-55 4119
$626-59 \quad 5124$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-50.2$ Std dev $=6.4$ max $=-36.9$ at 1000 GMt on day 7 min $=-63.8$ at 220 gmt on day 1
* theta (K) * MEAN $=254.21$
* PRESSURE (MB) * MEAN $=632.3$ STD DEV $=7.3$ MAX $=647.1$ AT 2300 GMT ON DAY 9 MIN $=620.6$ AT 10 GMT ON DAY 21
* WINDS (M/S) * MEAN $=8.1$ STD DEV $=2.7$ RESULTANT $=7.6$ FROM 121. CONSTANCY $=0.93 \mathrm{MAX}=19.6$ FROM 98. at 1230 GMT DAY 8
* MISSING 3-hourly observations * temperature: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{lrrrrrrrrrrrrrrr}N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ 0 & 0 & 0 & 4 & 11 & 31 & 40 & 13 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-37.5$ Std dev $=7.5$ max $=-21.4$ At 1340 GMt ON dAy 30 min $=-56.8$ at 0 gmt on day 1
* theta (K) * mean $=266.87$
* PRESSURE (MB) * MEAN $=647.6$ STD DEV $=9.9$ MAX $=660.8$ AT 1220 GMT ON DAY 15 MIN $=620.8$ AT 620 GMT ON DAY 1
* WINDS (M/S) * MEAN $=9.3$ STD DEV $=3.8$ RESULTANT $=8.6$ FROM 125. CONSTANCY $=0.93$ MAX $=20.6$ FROM 134. AT 1800 GMT DAY 3
* MISSING 3-hourly observations * temperature: $1.7 \%$ PRESSURE: $1.7 \%$ WINDS: $1.7 \%$

 WIND direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

$$
\begin{array}{llllllllllllllll}
0 & 0 & 0 & 1 & 13 & 25 & 42 & 15 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0
\end{array}
$$

DEC 97

| JAN | 97 |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| HR | PP | TT | VV | DD |
|  |  | DAY | 1 |  |
| 00 | 895 | -2 | 6 | 36 |
| 03 |  |  |  |  |
| 06 |  |  |  |  |
| 09 |  |  |  |  |
| 12 |  |  |  |  |
| 15 |  |  |  |  |
| 18 |  |  |  |  |
| 21 |  |  |  |  |
| 21 |  |  |  |  |

PP TT VV DD PP TT VV DD DAY 2 DAY 3

PP TT WV DD PP TT VV DD DAY 4 DAY 5

PP TT VV DD DAY 6

PP TT WV DD
DAY 7


* TEMPERATURE (C) * MEAN $=-2.0$ STD DEV $=2.5$ MAX $=4.2$ AT 1700 GMT ON DAY 20 MIN $=-10.9$ AT 720 GMT ON DAY 19
* THETA (K) * MEAN $=279.17$
* PRESSURE (MB) * MEAN $=903.8$ STD DEV $=7.6$ MAX $=916.3$ AT 2030 GMT ON DAY 18 MIN $=889.5$ AT 130 GMT ON DAY 11
* WINDS (M/S) * MEAN $=3.9$ STD DEV $=3.7$ RESULTANT $=2.8$ FROM 29. CONSTANCY $=0.72$ MAX $=17.8$ FROM 9. AT 620 GMT DAY 15
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $36.3 \%$ PRESSURE: $35.9 \%$ WINDS: $35.9 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{llllllllllllllllllll}\text { PERCENT } & 7 & 19 & 13 & 3 & 4 & 14 & 7 & 5 & 2 & 0 & 0 & 0 & 1 & 0 & 1 & 24\end{array}$

## FEB 97

| HR | PP | TT VV | DD |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  | DAY | 1 |  |
| 00 | 916 | -3 | 0 | 0 |
| 03 | 916 | -7 | 0 | 0 |
| 06 | 917 | -7 | 0 | 0 |
| 09 | 917 | -7 |  |  |
| 12 | 918 | -5 |  |  |
| 15 | 919 | -4 |  |  |
| 18 |  |  |  |  |
| 21 | 920 | -5 | 4 | 336 |
|  |  | DAY | 8 |  |

00
03
06
09
12
15

|  | DAY 15 |  |  |  | DAY 16 |  |  | DAY 17 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 901 | -1 | 6 | 39 |  |  |  | 904 | -4 | 2340 |
| 03 | 899 | -1 | 8 | 35 | 900 | -3 | 2344 | 904 | -4 | 2330 |
| 06 | 899 | -8 | 0 | 0 | 901 | -4 | 1344 | 905 | -4 | 00 |
| 09 | 899 | -3 | 7 | 42 | 901 | -4 | 261 | 905 | -5 | 3337 |
| 12 | 898 | 0 | 10 | 32 | 902 | -4 | 3337 | 906 | -3 | 2337 |
| 15 | 899 | 1 | 9 | 35 | 902 | -3 | 4341 | 906 | -2 | 3336 |
| 18 | 900 | 6 | 0 | 0 | 903 | -1 | 4337 | 907 | -2 | 2337 |
| 21 |  |  |  |  | 903 | -2 | 3338 | 908 | -3 | 3337 |
|  | DAY 22 |  |  |  | DAY 23 |  |  | DAY 24 |  |  |
| 00 | 901 | -4 | 7 | 336 | 907 | -5 | 00 | 908 | -12 | 1320 |
| 03 | 902 | -4 | 8 | 345 | 908 | -7 | 0 0 | 907 | -13 | 0 |
| 06 | 903 | -5 | 0 | 0 | 908 | -7 | 4341 | 906 | -12 | 00 |
| 09 | 904 | -6 | 0 | 0 | 908 | -8 | 4334 | 906 | -13 | 2348 |
| 12 | 904 | -4 | 0 | 0 | 908 | -7 | 6334 | 906 | -12 | 00 |
| 15 | 905 | -3 |  | 338 | 908 | -6 | 5334 | 906 | -7 | 00 |
| 18 | 906 | -3 | 4 | 351 | 908 | -6 | 1302 | 906 | -9 | 3334 |
| 21 | 907 | -4 | 1 | 133 | 908 | -7 | 4327 | 906 | -11 | 4336 |


| PP | TT | VV | DD |
| ---: | ---: | ---: | ---: |
| DAY | 4 |  |  |
| 918 | -10 | 9 | 336 |
| 919 | -10 | 7 | 336 |
| 918 | -11 | 5 | 336 |
| 918 | -11 | 4 | 336 |
| 918 | -9 | 8 | 333 |
| 918 | -8 | 6 | 337 |
| 917 | -8 | 6 | 336 |
| 917 | -9 | 7 | 337 |

DAY 11

PP TT VV DD DAY 5
916-10 6337
916 -10 4337
915-10 5330
914-10 4336
$\begin{array}{lll}913 & -9 & 5337\end{array}$
$\begin{array}{llll}912 & -8 & 6 & 336\end{array}$
$\begin{array}{llll}912 & -7 & 2320\end{array}$
911 -6 2336
DAY 12

PP TT WV DD DAY 6
910-11 3343
909-16 0
908-14 0 0
907-11 0
$\begin{array}{llll}905 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}903 & -9 & 2 & 108\end{array}$
$\begin{array}{llll}901 & -10 & 4112\end{array}$
$899-10 \quad 5122$
DAY 13

PP TT WV DD DAY 7
897-12 2116
895-15 $4 \quad 95$
893-14 $4 \quad 99$
$\begin{array}{llll}891 & -14 & 3 & 95\end{array}$
890-12 5109
889-11 5109

DAY 14


* TEMPERATURE (C) * MEAN $=-8.7$ STD DEV $=3.9$ MAX $=1.1$ AT 1220 GMT ON DAY 16 MIN $=-19.6$ AT 510 GMT ON DAY 12
* THETA (K) * MEAN $=272.78$
* PRESSURE (MB) * MEAN $=897.7$ STD DEV $=9.3$ MAX $=919.7$ AT 710 GMT ON DAY 15 MIN $=878.0$ AT 110 GMT ON DAY 20
* WINDS (M/S) * MEAN $=7.8$ STD DEV $=5.9$ RESULTANT $=7.1$ FROM 349. CONSTANCY $=0.92$ MAX $=28.2$ FROM 344. AT 2050 GMT DAY 16 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 20 & 13 & 12 & 9 & 11 & 8 & 10 & 5 & 8 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
 PERCENT $\begin{array}{llllllllllllllll}15 & 4 & 7 & 1 & 3 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 61\end{array}$

APR 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 902 & -13 & 10 & 344\end{array}$
$\begin{array}{lllll}03 & 903 & -14 & 12343\end{array}$
$\begin{array}{llll}06 & 904 & -14 & 9 \\ 343\end{array}$
$\begin{array}{lllll}09 & 906 & -17 & 6 & 343\end{array}$
$\begin{array}{llll}12 & 906 & -12 & 3\end{array} 358$
$\begin{array}{lllll}15 & 906 & -14 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 904 & -17 & 2\end{array} 341$
$\begin{array}{llll}21 & 902-10 & 9 & 12\end{array}$ DAY 8
$\begin{array}{lllll}00 & 898 & -2 & 7 & 29\end{array}$
$\begin{array}{lllll}03 & 898 & -3 & 7 & 35\end{array}$
$\begin{array}{lllll}06 & 898 & -7 & 5 & 39\end{array}$
$\begin{array}{llll}09 & 898 & -10 & 2338\end{array}$
$\begin{array}{lllll}12 & 898 & -7 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 898 & -6 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 896 & -5 & 5 & 26\end{array}$
$\begin{array}{lllll}21 & 894 & -7 & 3 & 36\end{array}$ DAY 15
$\begin{array}{llll}00 & 886 & -12 & 4340\end{array}$
$\begin{array}{llll}03 & 887 & -11 & 5 \\ 111\end{array}$
$\begin{array}{lllll}06 & 886 & -14 & 3 & 111\end{array}$
$\begin{array}{llll}09 & 886 & -15 & 3112\end{array}$
$\begin{array}{lllll}12 & 885 & -9 & 4 & 40\end{array}$
$\begin{array}{lllll}15 & 884 & -6 & 7 & 33\end{array}$
$\begin{array}{lllll}18 & 884 & -5 & 5 & 18\end{array}$
$\begin{array}{lllll}21 & 885 & -8 & 0 & 0\end{array}$ DAY 22
$\begin{array}{lllll}00 & 905 & -8 & 3 & 49\end{array}$
$\begin{array}{lllll}03 & 904 & -11 & 4 & 33\end{array}$
$\begin{array}{lllll}06 & 903 & -10 & 8 & 59\end{array}$
$\begin{array}{llll}09 & 902 & -11 & 5\end{array} 42$
$\begin{array}{lllll}12 & 901 & -9 & 9 & 42\end{array}$
$\begin{array}{lllll}15 & 901 & -7 & 7 & 32\end{array}$
$\begin{array}{lllll}18 & 899 & -7 & 9 & 29\end{array}$
$\begin{array}{lllll}21 & 898 & -8 & 6 & 39\end{array}$ DAY 29
$\begin{array}{lllll}00 & 889 & -20 & 10 & 340\end{array}$
$\begin{array}{lllll}03 & 891 & -20 & 7340\end{array}$
$\begin{array}{llll}06 & 893 & -22 & 4338\end{array}$
$\begin{array}{lllll}09 & 895 & -23 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 896 & -22 & 1 & 109\end{array}$
$\begin{array}{lllll}15 & 898 & -24 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 899 & -23 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 902 & -25 & 0\end{array}$

PP TT VV
DAY 2
900-10 $12 \quad 33$
899-10 $8 \quad 40$
$\begin{array}{llll}899 & -8 & 6 & 15\end{array}$
$\begin{array}{llll}899 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}900 & -8 & 10 & 345\end{array}$
$\begin{array}{llll}902 & -8 & 8 & 352\end{array}$
$\begin{array}{llll}904 & -8 & 10 & 343\end{array}$
$\begin{array}{llll}907 & -9 & 10 & 341\end{array}$
DAY 9
$\begin{array}{llll}891 & -9 & 1 & 98\end{array}$
$\begin{array}{llll}888 & -8 & 4 & 43\end{array}$
$\begin{array}{llll}887 & -8 & 6 & 40\end{array}$
$\begin{array}{llll}887 & -8 & 0 & 0\end{array}$
887-10 0
$\begin{array}{llll}887 & -8 & 3 & 344\end{array}$
$\begin{array}{llll}888 & -8 & 2 & 14\end{array}$
888-13 2354 DAY 16
$\begin{array}{llll}886 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}887 & -7 & 1 & 345\end{array}$
$\begin{array}{llll}888 & -9 & 1 & 338\end{array}$
889-11 0 0
890-11 0 0
$890-11 \quad 4116$
890-11 1111
890-11 0
DAY 23
$\begin{array}{llll}897 & -7 & 5 & 33\end{array}$
$\begin{array}{llll}896 & -8 & 6 & 42\end{array}$
$\begin{array}{llll}895 & -8 & 13 & 7\end{array}$
$\begin{array}{llll}895 & -8 & 11 & 14\end{array}$
$\begin{array}{llll}895 & -8 & 10 & 39\end{array}$
$\begin{array}{llll}896 & -9 & 11 & 30\end{array}$
$\begin{array}{llll}896 & -9 & 5 & 14\end{array}$
897-10 0 DAY 30
903-26 2338
903-24 2340
$\begin{array}{llll}904 & -24 & 3 & 343\end{array}$
$\begin{array}{llll}905 & -25 & 0 & 0\end{array}$
905-26 0
905-22 0
905-23 0 0
904-22 0
 $\begin{array}{llll}910 & -9 & 10343\end{array}$ 912-10 8340 913-10 5343 $\begin{array}{llll}914 & -7 & 3 & 26\end{array}$ $\begin{array}{llll}915 & -5 & 4 & 348\end{array}$ $\begin{array}{lll}916 & -4 & 7347\end{array}$
$\begin{array}{llll}918 & -5 & 10 & 341\end{array}$
$\begin{array}{llll}919 & -4 & 2 & 39\end{array}$ DAY 10
889-14 0 0
889-11 0 0
890-11 0 0
891-11 6345
893-11 0 0
893-10 0 0
893-13 3341
893-14 0 0

## DAY 17

890-11 0 0
891-13 0
890-15 0 0
891-15 0 0
891-14 0 0
891-14 0 0
891-16 0 0
891-15 0

## DAY 24

897-13 3343
898-13 0 0
899-14 2358
900-15 1330
901-15 1338
902-13 1 347
903-13 0 0
904-13 0 0

```
PP TT VV DD DAY 4
```

$\begin{array}{llll}919 & -4 & 11 & 33\end{array}$
$\begin{array}{llll}917 & -4 & 9 & 23\end{array}$
$\begin{array}{llll}917 & -1 & 11 & 341\end{array}$
$\begin{array}{lll}919 & -2 & 543\end{array}$
$\begin{array}{llll}919 & -2 & 6 & 23\end{array}$
$\begin{array}{llll}919 & -1 & 10 & 36\end{array}$
$\begin{array}{llll}919 & -3 & 8 & 28\end{array}$
$\begin{array}{llllllll}918 & -4 & 7 & 40 & 916 & -6 & 3 & 119\end{array}$ DAY 12
887-13 1360
887-12 10340
887-13 12343
888-12 6 - 35
887-10 6360
$\begin{array}{llll}887 & -9 & 6 & 32\end{array}$
$\begin{array}{llll}887 & -8 & 3 & 23\end{array}$
$\begin{array}{llll}887 & -8 & 0 & 0\end{array}$ DAY 19
$\begin{array}{llll}894 & -8 & 8 & 8\end{array}$ $\begin{array}{llll}894 & -8 & 10 & 42\end{array}$ $\begin{array}{llll}895 & -14 & 3 & 334\end{array}$ $\begin{array}{llll}894 & -7 & 5 & 98\end{array}$
$\begin{array}{llll}894 & -7 & 5 & 35\end{array}$
$\begin{array}{llll}893 & -7 & 12 & 29\end{array}$
$\begin{array}{llll}894 & -9 & 5 & 45\end{array}$
894-10 0 DAY 26
907-13 8340
907-13 $10 \quad 340$
908-14 9338
909-14 7338
909-13 4344
909-13 5338
910-14 0
909-12 0

PP TT WV DD DAY 6
$\begin{array}{llll}914 & -3 & 6 & 99\end{array}$
$\begin{array}{llll}912 & -4 & 6 & 42\end{array}$
$\begin{array}{llll}910 & -2 & 8 & 40\end{array}$
$\begin{array}{llll}909 & -3 & 11 & 30\end{array}$
$\begin{array}{llll}908 & -2 & 4 & 47\end{array}$
$\begin{array}{llll}906 & -2 & 9 & 36\end{array}$
$\begin{array}{llll}903 & -1 & 17 & 39\end{array}$
$902 \quad 0 \quad 10 \quad 19$
DAY 13
$\begin{array}{lll}887 & -8 & 2355\end{array}$
$\begin{array}{llll}887 & -7 & 5 & 14\end{array}$
$\begin{array}{llll}885 & -8 & 9 & 28\end{array}$
$\begin{array}{llll}884 & -8 & 13 & 39\end{array}$
$\begin{array}{llll}884 & -8 & 9 & 23\end{array}$
$\begin{array}{llll}884 & -9 & 13 & 39\end{array}$
$\begin{array}{llll}885 & -9 & 3 & 341\end{array}$
886-10 2340 DAY 20
893-14 0 0
892-11 $5 \quad 75$
891-12 273
891-12 0
891-12 3142
891-13 $4 \quad 52$
891-11 692
$893-13 \quad 5 \quad 54$
DAY 27
909-10 7338
908-11 11338
907-13 $10 \quad 338$
907-13 $13 \quad 338$
907-12 6344
904-13 10340
903-15 8344
900-15 5337

PP TT VV DD DAY 7
$\begin{array}{llll}901 & -1 & 8 & 47\end{array}$
$\begin{array}{llll}899 & -1 & 13 & 43\end{array}$
$\begin{array}{llll}899 & -2 & 9 & 30\end{array}$
$\begin{array}{llll}898 & -2 & 8 & 360\end{array}$
$\begin{array}{llll}898 & -4 & 2 & 61\end{array}$
$\begin{array}{llll}898 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}898 & -4 & 9 & 32\end{array}$
898 -4 $10 \quad 43$
DAY 14
$\begin{array}{llll}885 & -9 & 5 & 33\end{array}$
$\begin{array}{llll}883 & -8 & 6 & 29\end{array}$
$\begin{array}{llll}881 & -7 & 14 & 32\end{array}$
$\begin{array}{llll}880 & -6 & 10 & 29\end{array}$
$\begin{array}{llll}880 & -5 & 3 & 43\end{array}$
$\begin{array}{llll}882 & -7 & 7 & 360\end{array}$
$\begin{array}{lll}884 & -9 & 438\end{array}$
885-11 6345

## DAY 21

894-12 $5 \quad 61$
895-14 1232
897-13 2248
899-11 6109
$\begin{array}{llll}900 & -11 & 8 & 63\end{array}$
902-11 $6 \quad 26$
$\begin{array}{llll}902 & -9 & 10 & 25\end{array}$
$\begin{array}{llll}903 & -8 & 8 & 15\end{array}$
DAY 28
894-12 10360
889-10 $11 \quad 42$
$\begin{array}{llll}884 & -9 & 9 & 347\end{array}$
882-12 11352
881 - 1512341
880-17 14340
884-18 14338
$886-20 \quad 10 \quad 338$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-10.5$ Std dev $=5.2$ max $=1.8$ at 2300 gmt on day 6 min $=-27.5$ at 220 gmt on day 30
* THETA (K) * MEAN $=270.92$
* PRESSURE (MB) * MEAN $=897.5$ STD DEV $=9.6$ MAX $=919.3$ AT 1000 GMT ON DAY 4 MIN $=878.9$ AT 1040 GMT ON DAY 28
* WINDS (M/S) * MEAN $=5.0$ STD DEV $=4.1$ RESULTANT $=4.2$ fROM 15. CONSTANCY $=0.85 \mathrm{MAX}=22.0$ FROM 358 . AT 340 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 22 & 23 & 3 & 2 & 4 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 0 & 34\end{array}$
PERCENT

HR PP TT VV DD PP TT VV DD PP TT VV DD DAY 1
$\begin{array}{llll}00 & 904 & -23 & 0\end{array} 0$
$\begin{array}{lllll}03 & 903 & -23 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 902 & -24 & 3\end{array} 338$
$\begin{array}{lllll}09 & 901 & -24 & 3 & 333\end{array}$
$\begin{array}{llll}12 & 900 & -21 & 2338\end{array}$
$\begin{array}{llll}15 & 898 & -16 & 0\end{array} 0$
$\begin{array}{lllll}18 & 897 & -13 & 13 & 35\end{array}$
$\begin{array}{llll}21 & 896 & -11 & 8 \\ 22\end{array}$ DAY 8
$\begin{array}{llll}00 & 888 & -15 & 21\end{array} 35$
$\begin{array}{lllll}03 & 882 & -13 & 19 & 35\end{array}$
$\begin{array}{lllll}06 & 878 & -10 & 12 & 18\end{array}$
$\begin{array}{llllll}09 & 878 & -10 & 15 & 338\end{array}$
$\begin{array}{lllll}12 & 881 & -12 & 15 & 338\end{array}$
$\begin{array}{llllll}15 & 885 & -13 & 21 & 338\end{array}$
18 890-17 21338
$21 \quad 894-1823338$ DAY 15
00 895-11 1338
$\begin{array}{llll}03 & 897 & -10 & 0\end{array}$
$\begin{array}{llll}06 & 899 & -10 & 0\end{array}$
$\begin{array}{lllll}09 & 901 & -10 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 903 & -10 & 3 & 73\end{array}$
$\begin{array}{llll}15 & 904-11 & 2113\end{array}$
$\begin{array}{llll}18 & 906-11 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 906 & -11 & 1 \\ 88\end{array}$ DAY 22
$\begin{array}{lllll}00 & 906 & -11 & 10 & 345\end{array}$
$\begin{array}{lllll}03 & 900 & -11 & 18 & 338\end{array}$
$06 \quad 899$-9 26338
$\begin{array}{lllll}09 & 901 & -9 & 18 & 337\end{array}$
$\begin{array}{lllll}12 & 903 & -11 & 13 & 338\end{array}$
$\begin{array}{lllll}15 & 904 & -10 & 15 & 337\end{array}$
$\begin{array}{lllll}18 & 906 & -10 & 17 & 337\end{array}$
$\begin{array}{llll}21 & 910 & -1216337\end{array}$ DAY 29
$\begin{array}{lllll}00 & 909 & -4 & 4 & 351\end{array}$
$\begin{array}{lllll}03 & 908 & -4 & 4 & 347\end{array}$
$\begin{array}{llll}06 & 905 & -5 & 20 \\ 345\end{array}$
$09 \quad 908$-6 16347
$\begin{array}{lllll}12 & 909 & -10 & 15 & 347\end{array}$
$\begin{array}{llll}15 & 909 & -11 & 12345\end{array}$
$\begin{array}{lllll}18 & 907 & -10 & 8 & 345\end{array}$
$\begin{array}{lllll}21 & 904 & -8 & 11 & 347\end{array}$
PP TT VV DD PP TT VV DD
$\begin{array}{lll}897 & -15 & 4331\end{array}$
897-15 0 0
896-11 $\quad 5 \quad 40$
896-11 $4 \quad 46$
896-15 6136
$\begin{array}{llll}896 & -15 & 5 & 104\end{array}$
896-16 3106
896-14 275
DAY 9
898-18 19338
903 -15 $5 \quad 35$
$\begin{array}{llll}901 & -13 \quad 4 & 43\end{array}$
897-13 $10 \quad 43$
$\begin{array}{lllll}896 & -7 & 11 & 358\end{array}$
$\begin{array}{llll}896 & -9 & 7 & 29\end{array}$
$\begin{array}{llll}893 & -8 & 7 & 43\end{array}$
$\begin{array}{llll}891 & -3 & 11 & 56\end{array}$
DAY 16
907-10 $8 \quad 84$
908-10 $7 \quad 37$
909-11 243
909-10 4135
911-15 0 0
912-15 1341
914-14 0
915-14 3338
DAY 23
914-12 12336
916-12 10337
918-10 14337
$918-8 \quad 10340$
$\begin{array}{lll}917 & -8 & 17 \\ 348\end{array}$
$918-916344$
919-10 14341
919-10 12343
DAY 30
$\begin{array}{llll}903 & -6 & 12347\end{array}$
908-10 6315
910-12 6347
911-11 8347
911-11 7348
911-10 8348
912-11 7350
$914-13 \quad 7350$
PP TT VV DD
DAY 3


PP TT VV DD DAY 7
$\begin{array}{lll}887 & -8 & 14340\end{array}$
888-11 16338
888-13 19338
893-19 $18 \quad 338$
897-19 $13 \quad 341$
898-17 6340
$\begin{array}{llll}897 & -18 & 8 & 18\end{array}$ 894-17 $10 \quad 36$

DAY 14
$\begin{array}{llll}896 & -4 & 6 & 39\end{array}$
$\begin{array}{llll}894 & -8 & 2 & 115\end{array}$
$\begin{array}{llll}892 & -7 & 2 & 71\end{array}$
$\begin{array}{llll}891 & -5 & 4 & 37\end{array}$
$\begin{array}{llll}890 & -5 & 6 & 37\end{array}$
$\begin{array}{llll}890 & -4 & 8 & 26\end{array}$
$\begin{array}{llll}891 & -4 & 4 & 29\end{array}$
$\begin{array}{llll}892 & -8 & 3 & 336\end{array}$
DAY 21
904-14 21340
908-18 18338
910-17 15338
912-17 11340
913-16 9338
913-14 10343
910-13 11338
909-12 12343
DAY 28
924-9
923-10
922-11
922-12
$\begin{array}{llll}920 & -13 & 2 & 81\end{array}$
$\begin{array}{llll}917 & -11 \quad 7 \quad 18\end{array}$
$\begin{array}{llll}914 & -9 & 5 & 45\end{array}$
$\begin{array}{lll}911 & -9 & 11 \quad 29\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-11.3$ Std dev $=4.7$ MAX $=0.1$ at 910 GMT ON DAY 12 MIN $=-25.5$ AT 2150 GMt on dAY 4
* theta (K) * MEAN $=269.43$
* PRESSURE (MB) * MEAN $=905.3$ STD DEV $=11.4$ MAX $=930.1$ at 1930 GMT ON DAY 25 MIN $=877.4$ AT 830 GMT ON DAY 8 * WINDS (M/S) * MEAN $=7.8$ STD DEV $=6.1$ RESULTANT $=7.0$ FROM 353. CONSTANCY $=0.90$ MAX $=26.2$ FROM 338. AT 600 GMT DAY 22 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $2.4 \%$
 PERCENT: $\begin{array}{lccccccccccccccc}24 & 7 & 13 & 13 & 10 & & 9 & 6 & 7 & 3 & 4 & 4 & 0 & 0 & 0 & \\ N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 913 & -7 & 12 & 344\end{array}$ $\begin{array}{lllll}03 & 913 & -6 & 10 & 347\end{array}$ $\begin{array}{lllll}06 & 914 & -7 & 9 & 347\end{array}$ $\begin{array}{llll}09 & 915 & -6 & 7347\end{array}$ $\begin{array}{lllll}12 & 916 & -7 & 5 & 347\end{array}$ $\begin{array}{lllll}15 & 917 & -8 & 2 & 60\end{array}$ $\begin{array}{lllll}18 & 917 & -8 & 0 & 0\end{array}$ $\begin{array}{lllll}21 & 916 & -6 & 7 & 21\end{array}$

DAY 8
$\begin{array}{lllll}00 & 925 & -15 & 0 & 0\end{array}$ $\begin{array}{lllll}03 & 923 & -12 & 6 & 341\end{array}$ $\begin{array}{lllll}06 & 920 & -10 & 8 & 343\end{array}$ $\begin{array}{llll}09 & 918 & -10 & 7 \\ 344\end{array}$ $\begin{array}{lllll}12 & 915 & -10 & 11 & 343\end{array}$ $\begin{array}{llll}15 & 914 & -11 & 12341\end{array}$ $\begin{array}{lllll}18 & 916 & -10 & 12 & 341\end{array}$ $\begin{array}{llll}21 & 916 & -10 & 12341\end{array}$ DAY 15
$\begin{array}{lllll}00 & 922 & -10 & 15 & 338\end{array}$ $\begin{array}{lllll}03 & 921 & -12 & 17 & 338\end{array}$

06 920-12 15338
$\begin{array}{llllll}09 & 920 & -12 & 14 & 338\end{array}$
$\begin{array}{llll}12 & 919 & -13 & 11 \\ 338\end{array}$
$\begin{array}{llll}15 & 919 & -13 & 9 \\ 338\end{array}$
$\begin{array}{llll}18 & 918 & -14 & 3\end{array} 324$
$\begin{array}{llll}21 & 915-17 & 2126\end{array}$
DAY 22
$\begin{array}{lllll}00 & 906 & -29 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 905 & -29 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 904 & -30 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 904 & -29 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 904 & -30 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 905 & -31 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 905 & -31 & 0 & 0\end{array}$
21 906-28 0
DAY 29

PP TT VV DD DAY 2
$\begin{array}{llll}915 & -5 & 8 & 37\end{array}$ $\begin{array}{llll}914 & -5 & 13 & 36\end{array}$ 915-10-1343 $\begin{array}{llll}914 & -8 & 0 & 0\end{array}$ $\begin{array}{llll}915 & -8 & 0 & 0\end{array}$

## PP TT WV DD

 DAY 3$\begin{array}{llll}915 & -2 & 11 & 30\end{array}$
$\begin{array}{llll}913 & -2 & 9 & 43\end{array}$
9110343
$909 \quad 2 \quad 7360$
$\begin{array}{llll}908 & -1 & 11 & 7\end{array}$
$\begin{array}{llll}908 & -1 & 7 & 11\end{array}$
$\begin{array}{lll}909 & -2 \quad 2360\end{array}$
$\begin{array}{llll}907 & -3 & 10 & 30\end{array}$ DAY 10
$\begin{array}{lll}905 & -7 & 13 \\ 340\end{array}$
904-10 14338
906-17 14341
910-18 $13 \quad 92$
915-19 9343
918-19 $13 \quad 75$
921-20 10333
922-17 11108 DAY 17
905-18 0
905-19 5337
905-20 5337
905-19 0
904-17 6340
904-19 6337
904-19 5341
904-18 5338 DAY 24
909-31 1345
909-28 1338

| pp |  |  | DD | PP |  |  | DD | PP |  | $\begin{array}{r} \text { WV } \\ 6 \end{array}$ | DD |  |  | $\begin{aligned} & N \\ & 7 \end{aligned}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 907 | -2 | 6 | 36 | 907 | -5 | 8 | 43 | 909 | -8 | 3 | 28 | 920 | -10 | 3 | 341 |
| 906 | -2 | 6 | 30 | 907 | -6 | 8 | 40 | 910 | -8 | 1 | 360 | 921 | -10 | 3 | 344 |
| 907 | -3 | 5 | 15 | 907 | -5 | 11 | 19 | 912 | -9 | 4 | 345 | 922 | -10 | 3 | 344 |
| 908 | -7 | 0 | 0 | 907 | -5 | 8 | 29 | 913 | -9 | 3 | 344 | 923 | -11 | 4 | 344 |
| 908 | -11 | 1 | 344 | 906 | -4 | 10 | 42 | 915 | -10 | 3 | 344 | 924 | -14 | 3 | 343 |
| 907 | -7 | 4 | 53 | 907 | -5 | 13 | 18 | 917 | -13 | 3 | 341 | 924 | -12 | 5 | 344 |
| 907 | -6 | 5 | 46 | 907 | -5 | 8 | 26 | 918 | -9 | 3 | 345 | 925 | -14 | 4 | 341 |
| 907 | -6 | 11 | 43 | 908 | -6 | 8 | 32 | 919 | -8 | 3 | 344 | 926 | -17 | 0 | 0 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 922 | -18 | 11 | 340 | 921 | -10 | 10 | 341 | 923 | -8 | 10 | 340 | 926 | -7 | 14 | 338 |
| 924 | -17 | 10 | 340 | 922 | -9 | 4 | 341 | 923 | -9 | 10 | 341 | 926 | -7 | 11 | 338 |
| 925 | -17 | 7 | 340 | 922 | -9 | 7 | 338 | 924 | -7 | 10 | 341 | 925 | -6 | 13 | 338 |
| 925 | -14 | 10 | 340 | 922 | -9 | 6 | 338 | 923 | -8 | 15 | 340 | 924 | -5 | 12 | 338 |
| 925 | -14 | 9 | 338 | 922 | -10 | 9 | 338 | 923 | -8 | 16 | 340 | 922 | -7 | 15 | 338 |
| 923 | -13 | 12 | 338 | 923 | -9 | 8 | 340 | 923 | -7 | 14 | 338 | 921 | -6 | 17 | 338 |
| 923 | -12 | 12 | 340 | 923 | -9 | 10 | 340 | 924 | -8 | 16 | 338 | 919 | -7 | 15 | 340 |
| 922 | -11 | 8 | 340 | 923 | -9 | 10 | 340 | 925 | -8 | 15 | 338 | 921 | -9 | 17 | 340 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 904 | -20 | 10 | 338 | 906 | -22 | 4 | 337 | 904 | -28 | 0 | 0 | 907 | -30 | 1 | 360 |
| 904 | -21 | 9 | 338 | 907 | -25 | 0 | 0 | 905 | -29 | 0 | 0 | 907 | -32 | 1 | 337 |
| 903 | -20 | 10 | 338 | 906 | -27 | 1 | 102 | 905 | -30 | 0 | 0 | 907 | -30 | 1 | 355 |
| 904 | -20 | 10 | 338 | 906 | -29 | 0 | 0 | 905 | -30 | 1 | 345 | 908 | -30 | 0 | 0 |
| 904 | -20 | 7 | 338 | 905 | -30 | 1 | 347 | 905 | -31 | 1 | 345 | 908 | -33 | 0 | 0 |
| 904 | -20 |  | 338 | 904 | -27 | 0 | 0 | 905 | -29 | 0 | 0 | 908 | -30 | 0 | 0 |
| 904 | -21 |  | 337 | 904 | -28 | 0 | 0 | 905 | -30 | 0 | 0 | 907 | -30 | 0 | 0 |
| 905 | -23 | 6 | 329 | 904 | -28 | 0. | 0 | 905 | -28 | 0 | 0 | 906 | -29 | 0 | 0 |
|  |  | 25 |  |  |  |  |  |  | DAY |  |  |  | DA |  |  |

00
03
06
09
12
15
18
21

* temperature ( $C$ ) * mean $=-14.8$ std dev $=9.0$ max $=1.9$ at 850 gmt on day 3 min $=-33.9$ at 1900 GMt on day 22
* theta (K) * mean $=265.23$
* PRESSURE (MB) * MEAN $=912.8$ STD DEV $=7.4$ MAX $=926.5$ at 30 GMT ON DAY 14 MIN $=902.7$ AT 1630 GMT ON DAY 16
* WINDS (M/S) * MEAN $=6.2 \mathrm{stD}$ DEV $=5.0$ RESULTANT $=5.5$ fROM 351 . CONSTANCY $=0.88$ MAX $=21.8$ FROM 338. AT 1740 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $24.2 \%$ PRESSURE: $24.2 \%$ WINDS: $24.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 6 & 8 & 8 & 1 & 1 & 1 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 70\end{array}$

AUG 97
HR PP TT VV DD PP TT VV DD PP TT VV DD DAY 1 DAY 2 DAY 3

PP TT VV DD DAY 4

PP TT VV DD
DAY 5

PP TT VV DD DAY 6

PP TT VV DD DAY 7

DAY 23

DAY

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=$ ****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $98.4 \%$ PRESSURE: $98.4 \%$ WINDS: $98.4 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV DD DAY 1
00
03
06
09
12 18
21
00
03
06
0 $8 \quad 909-16 \quad 2338$
$\begin{array}{llll}913 & -11 & 26\end{array}$
912-15 4105
912-19 1338 DAY 9
907-20 0
907-21 2341
905-15 0 0
$\begin{array}{llll}902 & -17 & 7 & 37\end{array}$
$\begin{array}{llllllll}885 & -17 & 19 & 11 & 876 & -24 & 0 & 0\end{array}$
$\begin{array}{llllllll}880 & -12 & 4 & 4 & 877 & -25 & 0 & 0\end{array}$
$\begin{array}{llllllll}878 & -10 & 8 & 355 & 880 & -29 & 1 & 338\end{array}$ DAY 17
898-33 0

898-26 0 0
900-27 0
$\begin{array}{llll}901 & -27 & 0 & 0\end{array}$
901-25 0
899-21 0
895-22 0
892-20 $10 \quad 29$

## DAY 24

926-10 0

925-10 0
924-15 0
924-17 3355
922-11 0
$\begin{array}{llll}920 & -6 & 6 & 45\end{array}$
$\begin{array}{llll}918 & -5 & 7 & 35\end{array}$
$\begin{array}{llll}917 & -6 & 5 & 25\end{array}$

PP TT WV DD PP TT VV DD DAY 5
$\begin{array}{llll}890 & -9 & 12 & 25\end{array}$
$\begin{array}{rrrrrrrr}901 & -17 & 0 & 0 & 891 & -10 & 4 & 8 \\ 900 & -16 & 2 & 98 & 893 & -11 & 8 & 338\end{array}$
$\begin{array}{rrrrrrrr}901 & -17 & 0 & 0 & 891 & -10 & 4 & 8 \\ 900 & -16 & 2 & 98 & 893 & -11 & 8 & 338\end{array}$
900-16 $2 \quad 98$

PP TT WV DD DAY 6 899-16 0 0 899-16 1338
900-16 0

PP TT VV DD DAY 7
903-19 0 0
904-18 $\quad 0 \quad 0$
904-16 1 348

906-15 0 0
907-13 0
908-16 1340
DAY 14
890-23 0
$\begin{array}{llll}885 & -22 & 16 & 23\end{array}$
$\begin{array}{llll}881 & -23 & 15 & 35\end{array}$
$\begin{array}{llll}878 & -23 & 13 & 16\end{array}$
876-19 $9 \quad 25$
$\begin{array}{llll}877 & -21 & 3 & 341\end{array}$
877-16 $\quad 8338$
879-18 12341

## DAY 21

915-23 0
918-21 0
920-21 0
922-24 0
923-22 0
923-14 0
924-14 00
925-12 0
DAY 28
$\begin{array}{llll}903 & -7 & 15 & 344\end{array}$
$\begin{array}{llll}901 & -7 & 17343\end{array}$
901 -6 14344
$\begin{array}{llll}899 & -6 & 12347\end{array}$
$\begin{array}{llll}897 & -6 & 15 & 347\end{array}$
$899-611345$
$899-610348$
$\begin{array}{llll}900 & -8 & 10 & 345\end{array}$ MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-16.9$ StD dev $=7.4$ max $=-4.6$ at 1830 GMT ON DAY 24 MIN $=-34.8$ at 910 GMt ON DAY 16
* THETA (K) * MEAN $=263.77$
* PRESSURE (MB) * MEAN $=903.5$ StD DEV $=14.3$ MAX $=926.7$ at 1320 GMT ON DAY 23 MIN $=874.5$ at 320 GMT ON DAY 10 * WINDS (M/S) * MEAN $=5.1$ STD DEV $=5.8$ RESULTANT $=4.6$ FROM 350 . CONSTANCY $=0.92$ maX $=22.8$ fROM 340. AT 300 GMT DAY 10 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $10.8 \%$ PRESSURE: $10.8 \%$ HINDS: $10.8 \%$
 $\begin{array}{llllllllllllllllllll} \\ \text { PERCENT: } & 48 & 8 & 7 & 5 & 8 & 8 & 6 & 4 & 3 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

OCT 97

| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { vV } \\ 1 \end{array}$ | DD | PP | $\begin{gathered} \mathrm{TT} \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} v v \\ 3 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 4 \end{array}$ | DD | PP |  | VV | DD | PP |  | VV 6 | DD | PP | TT | $\begin{array}{r} \text { VV } \\ 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 923 | -6 | 17 | 344 | 926 | -8 | 3 | 354 | 914 | -10 | 2 | 70 | 909 | -3 | 14 | 37 | 912 | -12 | 3 | 340 | 908 | -6 | 10 | 37 | 901 | -6 | 9 | 35 |
| 03 | 924 | -6 | 17 | 345 | 925 | -13 | 4 | 343 | 913 | -12 | 0 | 0 | 909 | -2 | 7 | 35 | 912 | -11 | 2 | 340 | 907 | -6 | 11 | 42 | 900 | -8 | 11 | 21 |
| 06 | 926 | -6 | 13 | 344 | 925 | -12 | 0 | 0 | 911 | -11 | 3 | 94 | 910 | -6 | 2 | 329 | 912 | -16 | 0 | 0 | 906 | -5 | 11 | 29 | 899 | -7 | 10 | 36 |
| 09 | 926 | -6 | 14 | 344 | 923 | -11 | 3 | 91 | 909 | -7 | 11 | 39 | 911 | -6 | 2 | 77 | 910 | -15 | 0 | 0 | 905 | -4 | 12 | 22 | 898 | -6 | 13 | 32 |
| 12 | 927 | -6 | 11 | 344 | 921 | -12 | 2 | 91 | 908 | -6 | 14 | 16 | 912 | -4 | 3 | 50 | 910 | -14 | 0 | 0 | 904 | -4 | 10 | 8 | 898 | -6 | 11 | 22 |
| 15 | 927 | -6 | 9 | 344 | 920 | -7 | 0 | 0 | 909 | -4 | 13 | 35 | 913 | -4 | 0 | 0 | 910 | -7 | 0 | 0 | 904 | -4 | 8 | 40 | 897 | -6 | 13 | 37 |
| 18 | 926 | -6 | 10 | 344 | 918 | -8 | 0 | 0 | 910 | -1 | 4 | 29 | 913 | -4 | 0 | 0 | 909 | -6 | 6 | 28 | 902 | -4 | 8 | 19 | 897 | -6 | 6 | 32 |
| 21 | 926 | -7 | 13 | 343 | 916 | -8 | 2 | 74 | 910 | -4 | 10 | 22 | 913 | -8 | 0 | 0 | 909 | -10 | 0 | 0 | 901 | -5 | 9 | 25 | 896 | -8 | 7 | 37 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 896 | -7 | 9 | 23 | 901 | -12 | 7 | 340 | 910 | -17 | 4 | 340 | 914 | -18 | 0 | 0 | 905 | -13 | 8 | 340 | 887 | -16 | 0 | 0 | 895 | -25 | 7 | 338 |
| 03 | 895 | -9 | 8 | 37 | 902 | -12 | 4 | 340 | 911 | -19 | 1 | 341 | 912 | -18 | 0 | 0 | 904 | -13 | 4 | 340 | 885 | -16 | 0 | 0 | 897 | -27 | 6 | 336 |
| 06 | 894 | -8 | 12 | 22 | 903 | -14 | 2 | 358 | 912 | -22 | 0 | 0 | 911 | -19 | 0 | 0 | 902 | $-13$ | 3 | 340 | 883 | -16 | 0 | 0 | 901 | -28 | 5 | 338 |
| 09 | 895 | -8 | 8 | 25 | 904 | -15 | 1 | 358 | 913 | -22 | 1 | 340 | 911 | -17 | 1 | 343 | 901 | -14 | 2 | 344 | 883 | -17 | 0 | 0 | 903 | -28 | 4 | 340 |
| 12 | 896 | -10 | 0 | 0 | 905 | -11 | 3 | 340 | 914 | -16 | 0 | 0 | 910 | -15 | 2 | 340 | 898 | -14 | 2 | 135 | 884 | -18 | 0 | 0 | 905 | -25 | 2 | 338 |
| 15 | 897 | -8 | 0 | 0 | 905 | -11 | 4 | 340 | 915 | -16 | 0 | 0 | 909 | -9 | 0 | 0 | 895 | -12 | 1 | 87 | 886 | -18 | 6 | 260 | 906 | -19 | 0 | 0 |
| 18 | 899 | -11 | 2 | 337 | 906 | -11 | 4 | 340 | 915 | -14 | 0 | 0 | 908 | -10 | 6 | 340 | 892 | -12 | 0 | 0 | 889 | -21 | 6 | 275 | 906 | -21 | 0 | 0 |
| 21 | 899 | -10 | 7 | 340 | 908 | -13 | 4 | 340 | 915 | -14 | 0 | 0 | 906 | -12 | 9 | 340 | 890 | -13 | 0 | 0 | 892 | -21 | 4 | 316 | 905 | -24 | 1 | 82 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 905 | -27 | 2 | 80 | 904 | -21 | 2 | 340 | 896 | -14 | 0 | 0 | 889 | -3 | 5 | 25 | 881 | -6 | 8 | 85 | 884 | -12 | 6 | 360 | 885 | -11 | 0 | 0 |
| 03 | 905 | -29 | 0 | 0 | 901 | -18 | 0 | 0 | 895 | -14 | 1 | 343 | 889 | -5 | 0 | 0 | 879 | -6 | 8 | 40 | 884 | -12 | 7 | 33 | 885 | -11 | 3 | 340 |
| 06 | 906 | -27 | 1 | 352 | 899 | -18 | 0 | 0 | 894 | -14 | 0 | 0 | 890 | -4 | 0 | 0 | 878 | -6 | 8 | 32 | 885 | -15 | 0 | 0 | 885 | -11 | 2 | 338 |
| 09 | 907 | -25 | 3 | 344 | 898 | -15 | 4 | 358 | 891 | -13 | 6 | 90 | 889 | -3 | 6 | 8 | 877 | -8 | 9 | 40 | 885 | -15 | 0 | 0 | 885 | -11 | 1 | 326 |
| 12 | 908 | -18 | 1 | 338 | 897 | -14 | 0 | 0 | 888 | -7 | 10 | 30 | 888 | -4 | 8 | 32 | 879 | -9 | 7 | 40 | 886 | -10 | 0 | 0 | 886 | -10 | 2 | 340 |
| 15 | 908 | -14 | 0 | 0 | 897 | -14 | 0 | 0 | 888 | -6 | 1 | 324 | 888 | -4 | 11 | 23 | 878 | -7 | 14 | 7 | 886 | -10 | 0 | 0 | 887 | -7 | 0 | 0 |
| 18 | 908 | -13 | 0 | 0 | 897 | -10 | 0 | 0 | 888 | -1 | 2 | 338 | 886 | -2 | 7 | 71 | 881 | -9 | 11 | 22 | 886 | -6 | 0 | 0 | 888 | -7 | 1 | 92 |
| 21 | 907 | -16 | 0 | 0 | 897 | -10 | 0 | 0 | 889 | -2 | 4 | 355 | 883 | -3 | 3 | 54 | 882 | -10 | 11 | 11 | 886 | -8 | 0 | 0 | 889 | 6 | 0 | 0 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY |  |  |
| 00 | 890 | -11 | 0 | 0 | 900 | -16 | 2 | 327 | 910 | -18 | 7 | 338 | 913 | -18 | 8 | 338 | 907 | -11 | 3 | 338 | 907 | -7 | 7 | 338 | 898 | -7 | 14 | 338 |
| 03 | 890 | -10 | 4 | 341 | 902 | -20 | 1 | 347 | 911 | -18 | 6 | 340 | 913 | -16 | 10 | 340 | 908 | -12 | 8 | 340 | 907 | -8 | 8 | 337 | 897 | -8 | 12 | 338 |
| 06 | 891 | -12 | 5 | 340 | 904 | -17 | 0 | 0 | 912 | -21 | 8 | 341 | 912 | -13 | 8 | 338 | 908 | -11 | 13 | 343 | 907 | -9 | 12 | 338 | 897 | -10 | 13 | 338 |
| 09 | 892 | -12 | 1 | 338 | 906 | -16 | 0 | 0 | 914 | -18 | 6 | 340 | 910 | -13 | 12 | 340 | 907 | -10 | 17 | 340 | 907 | -9 | 12 | 337 | 897 | -11 | 12 | 340 |
| 12 | 893 | $-13$ | 8 | 338 | 908 | -17 | 2 | 338 | 915 | -17 | 5 | 338 | 907 | -12 | 15 | 338 | 907 | -10 | 13 | 340 | 907 | -9 | 13 | 338 | 898 | -13 | 11 | 340 |
| 15 | 894 | -14 | 9 | 338 | 908 | -14 | 6 | 338 | 914 | $-12$ | 5 | 340 | 905 | -10 | 17 | 341 | 907 | -8 | 11 | 338 | 906 | -8 | 9 | 337 | 898 | -12 | 8 | 340 |
| 18 | 895 | -15 | 7 | 337 | 909 | -15 | 10 | 338 | 913 | -13 | 9 | 338 | 904 | -8 | 12 | 340 | 906 | -7 | 10 | 338 | 904 | -7 | 7 | 341 | 899 | -12 | 13 | 340 |
| 21 | 898 | -16 | 6 | 334 | 909 | -15 | 11 | 338 | 913 | -13 | 11 | 338 | 905 | -8 | 9 | 329 | 907 | -7 | 9 | 338 | 901 | -7 |  | 340 | 900 | -12 | 12 | 340 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 901 | -12 | 10 | 338 | 895 | -12 | 0 | 0 | 883 | -12 | 12 | 338 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 901 | -13 | 10 | 340 | 892 | -13 | 0 | 0 | 883 | -12 | 2 | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 901 | -13 | 8 | 340 | 890 | -8 | 3 | 23 | 884 | $-13$ | 3 | 344 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 901 | -12 | 4 | 341 | 887 | -8 | 10 | 341 | 884 | -14 | 6 | 341 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 900 | -11 | 2 | 340 | 886 | -8 | 9 | 340 | 886 | $-13$ | 4 | 338 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 898 | -8 | 4 | 82 | 885 | -8 | 7 | 340 | 887 | -11 | 2 | 338 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 896 | -9 | 2 | 14 | 884 | -8 | 5 | 340 | 890 | -11 | 2 | 340 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 896 | -8 | 2 | 151 | 883 | -11 | 16 | 338 | 892 | -11 | 3 | 334 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-11.4$ Std dev $=5.4$ max $=-0.6$ at 1810 GMT ON DAY 3 min $=-30.9$ at 110 GMt on day 15
* theta (K) * mean $=269.73$
* PRESSURE (MB) * MEAN $=901.0$ STD DEV $=11.4$ MAX $=927.1$ AT 1430 GMT ON DAY 1 MIN $=876.6$ AT 940 GMT ON DAY 19
* WINDS (M/S) * MEAN $=5.3$ STD DEV $=4.7$ RESULTANT $=4.6$ FROM 356 . CONSTANCY $=0.88$ maX $=19.2$ fROM 344 . AT 30 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 34 & 14 & 8 & 14 & 10 & 10 & 7 & 2 & 2 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT
$\begin{array}{lllllllllllllrrr}6 & 13 & 9 & 2 & 5 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 61\end{array}$

HR PP TTVV DD DAY 1
00 895-13 5333
03 896-15 6343
06 898-15 10338
$\begin{array}{lllll}09 & 899 & -16 & 9 & 338\end{array}$
12 901-15 11338
15 902-15 9338
$\begin{array}{llllll}18 & 903 & -15 & 11 & 338\end{array}$
$\begin{array}{llll}21 & 904-14 & 8338\end{array}$ DAY 8
$\begin{array}{llll}00 & 912 & -18 & 1 \\ 340\end{array}$
$\begin{array}{lllll}03 & 914 & -18 & 2 & 94\end{array}$
$\begin{array}{lllll}06 & 915 & -17 & 1 & 81\end{array}$
$\begin{array}{lllll}09 & 916 & -21 & 1347\end{array}$
$\begin{array}{llll}12 & 917-18 & 2355\end{array}$
$\begin{array}{llll}15 & 918 & -14 & 2337\end{array}$
$\begin{array}{llll}18 & 919 & -15 & 3 \\ 268\end{array}$
$21 \quad 920$-16 2336 DAY 15
$\begin{array}{lllll}00 & 916 & -8 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 914 & -9 & 5 & 32\end{array}$
$\begin{array}{llll}06 & 912 & -11 & 0\end{array} 0$
$\begin{array}{llll}09 & 910 & -10 & 9\end{array}$
$\begin{array}{lllll}12 & 907 & -8 & 9 & 32\end{array}$
$\begin{array}{lllll}15 & 907 & -4 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 906 & -4 & 5 & 337\end{array}$
$\begin{array}{lllll}21 & 906 & -5 & 8 & 338\end{array}$ DAY 22
$\begin{array}{llllr}00 & 918 & -6 & 2 & 130 \\ 03 & 918 & -8 & 0 & 0 \\ 06 & 919 & -8 & 0 & 0 \\ 09 & 919 & -8 & 1 & 334 \\ 12 & 920 & -5 & 0 & 0 \\ 15 & 920 & -2 & 1 & 91 \\ 18 & 921 & -1 & 0 & 0\end{array}$
$\begin{array}{lllll}21 & 922 & -2 & 0 & 0\end{array}$ DAY 29

| 00 | 905 | -5 | 0 | 0 | 914 | -7 | 6 | 334 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 03 | 905 | -8 | 0 | 0 | 916 | -8 | 2 | 343 |
| 06 | 906 | -8 | 0 | 0 | 916 | -10 | 0 | 0 |
| 09 | 907 | -5 | 0 | 0 | 916 | -7 | 8 | 28 |
| 12 | 908 | -5 | 5 | 337 | 915 | -7 | 12 | 18 |
| 15 | 910 | -4 | 6 | 336 | 915 | -5 | 8 | 28 |
| 18 | 911 | -6 | 6 | 336 | 915 | -6 | 9 | 29 |
| 21 | 913 | -6 | 7 | 340 | 915 | -3 | 3 | 11 |


| PP | DAY | $4$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $5$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  |  |  |  | 7 | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 894 | -12 | 3 | 106 | 891 | -8 | 6 | 336 | 898 | -16 | 1 | 340 | 905 | -16 |  | 333 |
| 892 | -9 | 5 | 77 | 892 | -10 | 7 | 337 | 898 | -17 | 1 | 344 | 905 | -19 | 5 | 336 |
| 890 | -9 | 7 | 49 | 894 | -12 | 7 | 336 | 898 | -17 | 0 | 0 | 905 | -19 | 3 | 331 |
| 888 | -7 | 8 | 40 | 896 | -14 | 5 | 324 | 899 | -17 | 2 | 334 | 905 | -19 |  | 330 |
| 888 | -7 | 0 | 0 | 897 | -11 | 1 | 360 | 900 | -13 | 3 | 336 | 906 | -14 | 0 | 0 |
| 888 | -3 | 0 | 0 | 897 | -11 | 5 | 104 | 901 | -13 | 3 | 336 | 907 | -14 | 0 | 0 |
| 889 | -4 | 0 | 0 | 898 | -8 | 2 | 60 | 902 | -13 | 5 | 334 | 909 | -12 |  | 147 |
| 890 | -6 |  | 336 | 898 | -8 | 0 | 0 | 904 | -14 | 8 | 327 | 910 |  | 0 | 0 | DAY 14

$\begin{array}{llll}915 & -7 & 1 & 37\end{array}$
915-12 0
915-12 0
915-10 2127
$\begin{array}{llll}915 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}915 & -4 & 3 & 123\end{array}$
$\begin{array}{llll}915 & -5 & 5337\end{array}$
$\begin{array}{llll}916 & -4 & 0 & 0\end{array}$
DAY 21
$\begin{array}{llllllllllllll}907 & -1 & 0 & 0 & 0 & 0 & 914 & -1 & 0 & 0 & 916 & -5 & 3 & 334\end{array}$
$\begin{array}{llllllllllllllll}907 & -2 & 5 & 26 & 912 & -7 & 4 & 80 & 914 & -4 & 0 & 0 & 916 & -6 & 2 & 336\end{array}$
$\begin{array}{llllllll}907 & -2 & 0 & 0 & 912 & -3 & 8 & 25\end{array}$
$\begin{array}{llllllll}908 & -1 & 2 & 85 & 912 & -2 & 7 & 25\end{array}$
$\begin{array}{llll}911 & 1 & 8 & 21\end{array}$
$\begin{array}{llllllll}909 & 3 & 0 & 0 & 912 & 4 & 3 & 292\end{array}$
DAY 25
$\begin{array}{llll}918 & -7 & 1 & 97 \\ 917 & -8 & 2 & 87\end{array}$
$\begin{array}{llllllll}923 & -7 & 0 & 0 & 917 & -8 & 2 & 87 \\ 922 & -8 & 0 & 0 & 915 & -6 & 4 & 30\end{array}$
$\begin{array}{llllllll}921 & -8 & 1 & 334 & 915 & -6 & 4 & 84\end{array}$
$\begin{array}{llll}921 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}919 & -3 & 2119\end{array}$
$919-3 \quad 2135$

DAY 26

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-8.4$ StD DEV $=5.5$ MAX $=3.5$ AT 1450 GMT ON DAY 19 MIN $=-24.2$ AT 550 GMt ON DAY 10
* THETA (K) * MEAN $=272.00$
* PRESSURE (MB) * MEAN $=909.4$ STD DEV $=8.5$ MAX $=924.4$ AT 1230 GMT ON DAY 23 MIN $=887.5$ AT 1000 GMT ON DAY 4
* WINDS (M/S) * MEAN $=2.4$ STD DEV $=3.1$ RESULTANT $=1.8$ FROM 359. CONSTANCY $=0.75$ MAX $=14.2$ FROM 14. AT 1330 GMT DAY 30
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $13.3 \%$ PRESSURE: $11.7 \%$ WINDS: $11.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 64 & 9 & 9 & 8 & 6 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lllllllllllllllllll}\text { PERCENT } & 3 & 12 & 5 & 3 & 8 & 8 & 6 & 1 & 0 & 0 & 0 & 1 & 1 & 1 & 4 & 48\end{array}$

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* temperature ( $C$ ) * mean $=-3.1$ Std dev $=3.4$ MaX $=5.4$ at 1610 GMT ON DAY 5 MIN $=-13.5$ AT 420 GMt ON DAY 26
* THETA (K) * MEAN = 277.29
* PRESSURE (MB) * MEAN $=912.6$ STD DEV $=7.9$ MAX $=929.6$ AT 900 GMT ON DAY 3 MIN $=897.1$ AT 330 GMT ON DAY 14
* $\operatorname{WINDS}(\mathrm{M} / \mathrm{S}) *$ MEAN $=2.6 \mathrm{STD}$ DEV $=3.2$ RESULTANT $=1.6$ FROM 2. CONSTANCY $=0.63 \mathrm{MAX}=22.0 \mathrm{FROM} 337$. AT 650 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $21.4 \%$ PRESSURE: $14.1 \%$ WINDS: $13.7 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 56 & 19 & 11 & 9 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$


HR PP TT VV DD $\begin{array}{lllll} & & \text { DAY } & 1 \\ 00 & 960 & -1 & 5 & 267\end{array}$ $\begin{array}{lllll}03 & 961 & -2 & 4 & 71\end{array}$ $\begin{array}{lllll}06 & 960 & -1 & 4 & 50\end{array}$ $\begin{array}{llll}09 & 960 & -1 & 2320\end{array}$ $\begin{array}{llll}12 & 960 & -3 & 2338\end{array}$ $\begin{array}{lllll}15 & 960 & 1 & 0 & 0\end{array}$ $\begin{array}{lllll}18 & 959 & 1 & 1 & 150\end{array}$ $\begin{array}{lllll}21 & 960 & 2 & 1 & 78\end{array}$ DAY 8
$\begin{array}{lllll}00 & 956 & -3 & 3 & 160\end{array}$
$\begin{array}{lllll}03 & 956 & -4 & 7 & 123\end{array}$
$\begin{array}{llllll}06 & 957 & -4 & 4 & 115\end{array}$
$\begin{array}{lllll}09 & 957 & -5 & 4 & 113\end{array}$
$\begin{array}{lllll}12 & 957 & -6 & 5 & 101\end{array}$
$\begin{array}{lllll}15 & 958 & -6 & 5 & 102\end{array}$
$\begin{array}{lllll}18 & 958 & -6 & 6 & 102\end{array}$
$\begin{array}{llllll}21 & 958 & -5 & 8 & 105\end{array}$ DAY 15
$\begin{array}{lllll}00 & 958 & -3 & 4 & 87\end{array}$
$\begin{array}{lllll}03 & 958 & -2 & 7 & 15\end{array}$
$\begin{array}{lllll}06 & 957 & -2 & 6 & 2\end{array}$
$\begin{array}{lllll}09 & 960 & -5 & 7 & 140\end{array}$
$\begin{array}{lllll}12 & 961 & -6 & 2 & 144\end{array}$
$\begin{array}{lllll}15 & 962 & -5 & 2 & 329\end{array}$

| 18 | 962 | -4 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}21 & 962 & -2 & 4 & 281\end{array}$ DAY 22
$\begin{array}{lllll}00 & 966 & -4 & 2112\end{array}$
$\begin{array}{lllll}03 & 966 & -2 & 1 & 119\end{array}$
$\begin{array}{lllll}06 & 967 & -4 & 4 & 111\end{array}$
$\begin{array}{lllll}09 & 968 & -5 & 3 & 111\end{array}$
$\begin{array}{lllll}12 & 969 & -5 & 1 & 115\end{array}$
$\begin{array}{lllll}15 & 969 & -5 & 2 & 91\end{array}$
$\begin{array}{lllll}18 & 970 & -5 & 1 & 78\end{array}$
$\begin{array}{lllll}21 & 971 & -4 & 2 & 88\end{array}$ DAY 29
$\begin{array}{lllll}00 & 962 & -6 & 10 & 137\end{array}$
$\begin{array}{lllll}03 & 962 & -6 & 4 & 111\end{array}$
$\begin{array}{lllll}06 & 963 & -4 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 962 & -6 & 1 & 46\end{array}$
$\begin{array}{lllll}12 & 962 & -6 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 962 & -7 & 5 & 268\end{array}$
$\begin{array}{llll}18 & 963 & -6 & 5 \\ 265\end{array}$

PP TT VV DD PP TT VV DD
$\begin{array}{lllllllll} & \text { DAY } & 2 & & & \text { DAY } & 3 \\ 959 & 0 & 0 & 959 & -5 & 3 & 156\end{array}$
$\begin{array}{llllllll}959 & 1 & 0 & 0 & 959 & -3 & 1 & 158\end{array}$
$\begin{array}{llllllll}959 & -1 & 4 & 137 & 958 & -4 & 2 & 288\end{array}$
$\begin{array}{llllllll}959 & -3 & 6 & 127 & 958 & -4 & 3 & 305\end{array}$
$\begin{array}{llllllll}960 & -5 & 3 & 119 & 957 & -5 & 6 & 306\end{array}$
$\begin{array}{llllllll}959 & -5 & 3 & 160 & 956 & -5 & 6 & 296\end{array}$
$\begin{array}{llllllll}959 & -3 & 6 & 180 & 955 & -5 & 6 & 279\end{array}$
$\begin{array}{llllllll}959 & -5 & 5 & 174 & 956 & -2 & 4 & 271\end{array}$

## DAY 10

$\begin{array}{llll}958 & -5 & 6 & 95\end{array}$
$\begin{array}{llll}958 & -5 & 6 & 105\end{array}$
$\begin{array}{llll}959 & -5 & 6 & 108\end{array}$
$\begin{array}{llll}959 & -4 & 6 & 104\end{array}$
$\begin{array}{llll}959 & -4 & 7 & 97\end{array}$
$\begin{array}{llll}959 & -3 & 7111\end{array}$
$\begin{array}{llll}959 & -3 & 5 & 111\end{array}$
$\begin{array}{llll}960 & -3 & 3 & 19\end{array}$ DAY 16
$\begin{array}{llll}963 & -5 & 5 & 91\end{array}$
$\begin{array}{llll}963 & -5 & 5 & 97\end{array}$
$\begin{array}{llll}964 & -6 & 3 & 142\end{array}$

| 964 | -7 | 3 |
| :--- | :--- | :--- |

$\begin{array}{llll}964 & -7 & 1 & 164\end{array}$
$\begin{array}{llll}965 & -7 & 3 & 182\end{array}$
$\begin{array}{llll}965 & -7 & 3 & 144\end{array}$
$\begin{array}{lll}965 & -6 & 2151\end{array}$ DAY 23
$\begin{array}{llll}971 & -3 & 4 & 81\end{array}$
$\begin{array}{llll}971 & -4 & 3 & 92\end{array}$
$\begin{array}{llll}970 & -4 & 4 & 82\end{array}$
$\begin{array}{llll}969 & -4 & 6 & 78\end{array}$
$\begin{array}{llll}968 & -5 & 5 & 82\end{array}$
$\begin{array}{llll}967 & -5 & 5 & 78\end{array}$
$\begin{array}{llll}967 & -4 & 4 & 26\end{array}$
$\begin{array}{llll}965 & -4 & 5 & 358\end{array}$ DAY 30
$\begin{array}{llll}964 & -6 & 3 & 88\end{array}$
$\begin{array}{llll}965 & -6 & 5 & 127\end{array}$
$\begin{array}{llll}967 & -7 & 6 & 122\end{array}$
$\begin{array}{llll}968 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}969 & -7 & 1 & 7\end{array}$
$\begin{array}{llll}970 & -7 & 1 & 306\end{array}$
$\begin{array}{lll}970 & -6 & 3 \\ 267\end{array}$
$\begin{array}{llll}961 & -1 & 2 & 35\end{array}$
$\begin{array}{llll}961 & -1 & 1 & 18\end{array}$
$\begin{array}{llll}961 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}962 & -3 & 1 & 1\end{array}$
$\begin{array}{llll}962 & -4 & 1360\end{array}$
$\begin{array}{llll}962 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}962 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}962 & -2 & 0 & 0\end{array}$
DAY 17
$\begin{array}{lll}966 & -4 & 206\end{array}$
$\begin{array}{llll}966 & -4 & 3 & 170\end{array}$
$\begin{array}{llll}967 & -6 & 2 & 165\end{array}$
$\begin{array}{llll}967 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}967 & -6 & 0 & 0\end{array}$
$\begin{array}{lll}967 & -6 & 2331\end{array}$
$\begin{array}{lll}967 & -7 & 2336\end{array}$
$\begin{array}{lll}968 & -4 & 2319\end{array}$
DAY 24
$\begin{array}{llll}965 & -3 & 4 & 341\end{array}$
$\begin{array}{llll}965 & -3 & 2 & 322\end{array}$
$\begin{array}{llll}964 & -2 & 1 & 97\end{array}$
$\begin{array}{llll}964 & -5 & 1 & 97\end{array}$
$\begin{array}{llll}964 & -4 & 5 & 144\end{array}$
$\begin{array}{llll}964 & -4 & 3 & 135\end{array}$
$\begin{array}{llll}963 & -4 & 1 & 174\end{array}$
$963-4 \quad 2313$

## DAY 31

$\begin{array}{llll}971 & -3 & 2 & 163\end{array}$
$\begin{array}{llll}971 & -5 & 2 & 99\end{array}$
$\begin{array}{llll}971 & -4 & 4 & 157\end{array}$
$\begin{array}{llll}972 & -6 & 2 & 167\end{array}$
$\begin{array}{llll}972 & -7 & 3 & 168\end{array}$
$\begin{array}{llll}972 & -7 & 1 & 191\end{array}$
$\begin{array}{llll}972 & -4 & 0 & 0\end{array}$
$\begin{array}{cr}\text { PP } \quad \text { TT W } \\ \text { DAY } & 4\end{array}$
$\begin{array}{lll}955 & -1 & 592\end{array}$

| 955 | -2 | 6 |
| :--- | :--- | :--- |


| 955 | -2 | 5 |
| :--- | :--- | :--- |

$\begin{array}{lll}955 & -3 & 4281\end{array}$
$\begin{array}{lll}956 & -4 & 2136\end{array}$
956 -6 5132
$\begin{array}{llll}957 & -4 & 3 & 129\end{array}$
$\begin{array}{llll}957 & -5 & 3 & 156\end{array}$
DAY 11
$\begin{array}{llll}962 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}962 & -3 & 3 & 164\end{array}$
$\begin{array}{llll}962 & -5 & 6 & 143\end{array}$
$\begin{array}{llll}962 & -6 & 8 & 158\end{array}$
$\begin{array}{llll}963 & -7 & 6 & 116\end{array}$
$\begin{array}{llll}963 & -7 & 7 & 140\end{array}$
$\begin{array}{llll}962 & -7 & 7 & 116\end{array}$
$\begin{array}{llll}963 & -7 & 6 & 140\end{array}$
DAY 18
$\begin{array}{lll}968 & -1 & 2327\end{array}$
$968 \quad 0 \quad 0 \quad 0$
$968 \quad 0 \quad 0 \quad 0$
$\begin{array}{llll}969 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}969 & -3 & 0 & 0\end{array}$
$\begin{array}{lll}969 & -4 & 1232\end{array}$
$\begin{array}{lll}969 & -4 & 2182\end{array}$
969 -2 5192
DAY 25
$\begin{array}{lll}962 & -4 & 7285\end{array}$
$\begin{array}{lll}961 & -4 & 3 \\ 220\end{array}$
$\begin{array}{llll}961 & -5 & 1 & 101\end{array}$
$\begin{array}{llll}960 & -5 & 2 & 106\end{array}$
$\begin{array}{llll}959 & -4 & 2 & 8\end{array}$
$\begin{array}{llll}958 & -7 & 3 & 331\end{array}$
$\begin{array}{llll}957 & -7 & 6 & 319\end{array}$
$\begin{array}{llll}957 & -6 & 5 & 351\end{array}$

PP TT WV DD PP TT WV DD DAY 5
$\begin{array}{llll}958 & -3 & 3 & 168\end{array}$
$\begin{array}{llll}958 & -4 & 2 & 275\end{array}$
$\begin{array}{llll}958 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}959 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}959 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}960 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}960 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}961 & -2 & 0 & 0\end{array}$ DAY 12
$\begin{array}{llll}963 & -7 & 5 & 120\end{array}$
$\begin{array}{llll}962 & -7 & 7 & 132\end{array}$
$\begin{array}{llll}962 & -7 & 6 & 163\end{array}$
$\begin{array}{llll}963 & -8 & 8 & 149\end{array}$
$\begin{array}{llll}963 & -8 & 5 & 132\end{array}$
$\begin{array}{llll}963 & -7 & 7 & 150\end{array}$
$\begin{array}{llll}964 & -7 & 5 & 171\end{array}$
$\begin{array}{llll}964 & -6 & 4 & 213\end{array}$ DAY 19
$\begin{array}{llll}969 & -3 & 5 & 209\end{array}$
$\begin{array}{llll}968 & -3 & 6 & 198\end{array}$
$\begin{array}{llll}968 & -3 & 8 & 188\end{array}$
$\begin{array}{llll}967 & -5 & 9 & 158\end{array}$
$\begin{array}{llll}967 & -6 & 6 & 172\end{array}$
$\begin{array}{llll}966 & -5 & 4 & 184\end{array}$
$\begin{array}{llll}966 & -5 & 7 & 187\end{array}$
$\begin{array}{llll}966 & -4 & 8.178\end{array}$ DAY 26
$\begin{array}{llll}956 & -4 & 6 & 360\end{array}$
$\begin{array}{llll}956 & -7 & 7 & 344\end{array}$
$\begin{array}{llll}957 & -6 & 4 & 357\end{array}$
$\begin{array}{llll}957 & -4 & 5 & 36\end{array}$
$\begin{array}{llll}958 & -6 & 5 & 35\end{array}$
$\begin{array}{llll}958 & -7 & 3 & 360\end{array}$
$\begin{array}{llll}958 & -5 & 3 & 360\end{array}$
$\begin{array}{llll}959 & -3 & 0 & 0\end{array}$
DAY 20
$\begin{array}{lll}965 & -5 & 7205\end{array}$
$\begin{array}{llll}965 & -4 & 8 & 164\end{array}$
$\begin{array}{llll}965 & -5 & 8 & 161\end{array}$
$\begin{array}{llll}965 & -6 & 8 & 167\end{array}$
$\begin{array}{lll}965 & -6 & 7161\end{array}$
$\begin{array}{llll}965 & -7 & 7172\end{array}$
$\begin{array}{lll}965 & -6 & 2174\end{array}$
$\begin{array}{llll}965 & -5 & 3150\end{array}$
DAY 27
$\begin{array}{llll}959 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}959 & -2 & 0 & 0\end{array}$
$\begin{array}{lll}960 & -2 & 1330\end{array}$
$960-6 \quad 3303$
$\begin{array}{llll}961 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}962 & -7 & 4 & 333\end{array}$
$\begin{array}{llll}963 & -6 & 2 & 340\end{array}$
$\begin{array}{llll}963 & -4 & 3 & 36\end{array}$

PP TT W DD DAY 7
$\begin{array}{rrrrrrrr}961 & 0 & 0 & 0 & 959 & -2 & 0 & 0 \\ 961 & -2 & 3 & 78 & 958 & & 0 & 0\end{array}$
$\begin{array}{llllllll}961 & -2 & 1 & 341 & 957 & -4 & 2 & 97\end{array}$
$\begin{array}{llllllll}962 & -3 & 1 & 71 & 956 & -4 & 1 & 329\end{array}$
$\begin{array}{lllllll}961 & -4 & 2 & 348 & 956 & -7 & 3 \\ 943\end{array}$
$\begin{array}{lllllll}961 & -4 & 0 & 0 & 955 & -5 & 3 \\ 307\end{array}$
$\begin{array}{llllllll}960 & -3 & 0 & 0 & 955 & -5 & 3 & 306\end{array}$
$\begin{array}{llllllll}960 & -2 & 0 & 0 & 955 & -2 & 0 & 0\end{array}$
DAY 14
$\begin{array}{llllllll}964 & -5 & 4 & 219 & 962 & -2 & 0 & 0\end{array}$
$\begin{array}{llllllll}964 & -4 & 3 & 165 & 961 & -1 & 3 & 360\end{array}$
$\begin{array}{llllllll}963 & -5 & 2 & 185 & 961 & -4 & 4 & 291\end{array}$
$\begin{array}{llllllll}963 & -6 & 0 & 0 & 960 & -5 & 5 & 291\end{array}$
$\begin{array}{lllllll}963 & -6 & 0 & 0 & 959 & -6 & 7 \\ 963\end{array}$

| 963 | -6 | 1 | 112 | 958 | -6 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllllll}963 & -3 & 1 & 153 & 958 & -5 & 8 & 293\end{array}$
$\begin{array}{llllllll}963 & -1 & 0 & 0 & 957 & -3 & 6 & 289\end{array}$

DAY 21
$\begin{array}{llll}965 & -5 & 2 & 101\end{array}$
$\begin{array}{llll}965 & -4 & 1 & 68\end{array}$
$\begin{array}{llll}965 & -1 & 0 & 0\end{array}$
$\begin{array}{lll}965 & -5 & 2357\end{array}$
$\begin{array}{llll}965 & -5 & 3 & 291\end{array}$
$\begin{array}{lll}965 & -4 & 2289\end{array}$
$\begin{array}{llll}965 & -3 & 0 & 0\end{array}$
DAY 28
$\begin{array}{llll}964 & -3 & 5 & 22\end{array}$
$\begin{array}{llll}964 & -4 & 4 & 23\end{array}$
$\begin{array}{llll}964 & -5 & 3 & 39\end{array}$
$\begin{array}{llll}964 & -7 & 2 & 5\end{array}$
$\begin{array}{llll}964 & -8 & 2 & 15\end{array}$
$\begin{array}{llll}963 & -6 & 1 & 84\end{array}$
$\begin{array}{llll}963 & -5 & 1 & 70\end{array}$

MONTHLY SUMMARY
$Y$
MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-4.2$ Std dev $=1.9$ max $=2.2$ at 2030 gmt on day 1 min $=-8.1$ at 1410 GMt ON day 17
* theta (K) * MEAN $=271.92$
* PRESSURE (MB) * MEAN $=962.4$ STD DEV $=4.2$ MAX $=972.0$ at 1330 GMT ON DAY 31 MIN $=954.8$ at 410 GMt ON DAY 4
* WINDS (M/S) * MEAN $=3.2$ STD DEV $=2.4$ RESULTANT $=0.8$ fROM 136. CONSTANCY $=0.25$ MAX $=10.9$ fROM 108. AT 750 GMT DAY 15 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $0.4 \%$ UINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllllllllll}\text { PERCENT } & 7 & 3 & 3 & 4 & 10 & 12 & 9 & 13 & 8 & 4 & 1 & 0 & 6 & 7 & 5 & 7\end{array}$


| PP | TT | VV | DD |
| :--- | :--- | :--- | :--- |
|  | DAY | 4 |  |
| 969 | -5 | 5 | 282 |
| 968 | -5 | 6 | 277 |
| 968 | -6 | 4 | 250 |
| 967 | -6 | 3 | 271 |
| 967 | -7 | 3 | 292 |
| 966 | -8 | 2 | 334 |
| 966 | -8 | 3 | 307 |
| 966 | -5 | 6 | 307 |
|  | DAY | 11 |  |
| 964 | -5 | 5 | 331 |
| 964 | -6 | 5 | 334 |
| 964 | -5 | 4 | 322 |
| 965 | -7 | 4 | 320 |
| 965 | -8 | 4 | 187 |
| 965 | -8 | 5 | 181 |
| 965 | -10 | 5 | 165 |
| 966 | -11 | 7 | 157 |
|  | DAY | 18 |  |
| 968 | -10 | 6 | 116 |
| 968 | -10 | 6 | 119 |
| 967 | -11 | 6 | 9 |
| 966 | -11 | 6 | 355 |
| 966 | -13 | 6 | 8 |
| 964 | -14 | 7 | 358 |
| 964 | -11 | 6 | 347 |
| 963 | -9 | 1 | 358 |
|  | DAY | 25 |  |
| 963 | -11 | 5 | 175 |
| 964 | -11 | 5 | 154 |
| 964 | -11 | 5 | 164 |
| 965 | -11 | 4 | 149 |
| 965 | -11 | 6 | 164 |
| 965 | -11 | 5 | 129 |
| 966 | -11 | 6 | 140 |
| 966 | -11 | 6 | 164 |




MONTHLY SUMMARY

[^3]MAR 97
HR PP TT VV

|  |  | DAY | 1 |
| :--- | :--- | :--- | :--- |
| 00 | 948 | -12 | 4 |
| 03 | 948 | -13 | 1 |
| 06 | 948 | -14 | 2 |
| 09 | 948 | -14 | 6 |
| 12 | 948 |  |  |
| 12 | 948 | -13 | 10 |
| 15 | 949 | -13 | 6 |

$\begin{array}{llll}00 & 951 & -15 & 4\end{array} 299$
03 951-15
06 952-15
09 952-16
12 953-18
15 953-20
18 954-16
21 955-14
DAY 15
00 955-17 6164
03 956-16 5156
$\begin{array}{lllll}06 & 958 & -16 & 1 & 164\end{array}$
$\begin{array}{lllll}09 & 958 & -16 & 3 & 112\end{array}$
$\begin{array}{lllll}12 & 959 & -16 & 3 & 113\end{array}$
$\begin{array}{llll}15 & 959 & -16 & 3\end{array} 98$
$\begin{array}{llll}18 & 959 & -16 & 2\end{array} 81$
$\begin{array}{llll}21 & 959 & -16 \quad 2 \quad 67\end{array}$
DAY 22
00 958-24
$\begin{array}{lllll}03 & 959 & -24 & 4 & 56\end{array}$
$\begin{array}{lllll}06 & 959 & -25 & 2 & 63\end{array}$
$\begin{array}{llll}09 & 960 & -26 & 2360\end{array}$
$\begin{array}{llll}12 & 961 & -26 & 1\end{array} 82$
$\begin{array}{lllll}15 & 961 & -26 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 962 & -25 & 0\end{array}$
$\begin{array}{lll}21 & 962-23 \quad 279\end{array}$
DAY 29
$\begin{array}{llll}00 & 932 & -29 & 5 \\ 3\end{array}$
$\begin{array}{lllll}03 & 930 & -30 & 9 & 296\end{array}$
$\begin{array}{lllll}06 & 931 & -31 & 3 & 282\end{array}$
$\begin{array}{lllll}09 & 931 & -28 & 1 & 43\end{array}$
$\begin{array}{lllll}12 & 932 & -28 & 1 & 43\end{array}$
$\begin{array}{lllll}15 & 932 & -28 & 4 & 355\end{array}$
$\begin{array}{lllll}18 & 930 & -26 & 8 & 327\end{array}$
$\begin{array}{llll}21 & 931 & -24 & 9330\end{array}$

PP TT VV DD PP TT VV DD DAY 2
954-16 6165
956-15 3150
957-14 1156
959-15 2182
$960-1412277$
963-15 2199
$\begin{array}{llll}964 & -15 & 8 & 274\end{array}$
965-13 8265 DAY 9
956-13
955-12 1192
954-13 5156
953 -13 10181
$\begin{array}{llll}951 & -8 & 9 & 97\end{array}$
$\begin{array}{llll}950 & -9 & 12 & 136\end{array}$
948-16 12168
946-16 16181
DAY 16
958-15 0 0
957-16
956-15
956-20
955-19
953-17 $3 \quad 32$
953-19 5358
$\begin{array}{llll}952 & -17 & 960\end{array}$ DAY 23
963-21 4279
963-21 5282
$964-21 \quad 5281$
965-20 3272
965-21 3291
966-21 0
966-22 2296
967 -20 5293
DAY 30
935-22 7341
939-22 4352
$\begin{array}{llll}941 & -22 & 3 & 5\end{array}$
942-24 4360
942 -24 4358
942-22 6322
942-23
943-20

DAY 3
965-12 5278
964-12 2310
963-13 0
961-15 $3 \quad 64$
960-15 0 0
958-16 $0 \quad 0$
958-13 4189
957-12 4158 DAY 10
$\begin{array}{llll}946 & -1618189\end{array}$
947-16 17192
949-15 14181
951-15 15192
$\begin{array}{llll}951 & -14 & 6147\end{array}$
950-15 7142
950-16 6129
950-17 7135 DAY 17
953-15 97
953-15 $10 \quad 360$
953-17 8348
$\begin{array}{llll}954 & -18 & 7 & 341\end{array}$
954-18 5358

955-16 4357 DAY 24
967-18
967-19
967-18
967-22
968-22
968-23
968-23
969-21
DAY 31
943-19
943-20
944-20
945-21
946-22 3253
948-24 5143
$\begin{array}{lllll}949 & -24 & 3 & 125\end{array}$
950-24 $4 \quad 35$

PP TT VV DD PP TT VV DD DAY 5
950-13 8118
950-13 6111
951-14 6130
$\begin{array}{llll}951 & -14 & 6119\end{array}$
$\begin{array}{llll}951 & -14 & 5120\end{array}$
950-15 8123
951-16 7137
$\begin{array}{llll}951 & -17 & 7125\end{array}$ DAY 12
944-18 4108
943-17 5102
942-18 6106
940-18 6102
$\begin{array}{llll}939 & -17 & 3 & 105\end{array}$
$\begin{array}{llll}937 & -17 & 5 & 106\end{array}$
937-16 $17 \begin{array}{llll} & 16\end{array}$
936-18 $3 \quad 28$ DAY 19
960-20 4109
$959-20 \quad 5 \quad 123$
$\begin{array}{llll}960 & -21 & 5 & 123\end{array}$
$960-21 \quad 5 \quad 92$
$\begin{array}{llll}960 & -21 & 6 & 105\end{array}$
959-22 3113
$\begin{array}{llll}959 & -23 & 5 & 99\end{array}$
$\begin{array}{llll}960 & -24 & 6 & 112\end{array}$ DAY 26
969-18 5168
969 - 214153
969-23 4102
968-22 461
967-22 274
$\begin{array}{llll}970 & -17 & 4 & 168\end{array}$
969-17 4167
969-16 $\quad 3147$
969-16 4112

PP TT WV DD DAY 6
952-17 6144
952-17 10137
952-17 8132
952-18 7130
$\begin{array}{llll}952 & -17 & 6111\end{array}$
952-17 8136
$\begin{array}{llll}953 & -17 & 6 & 137\end{array}$
952-16 5122 DAY 13
936-15 00
936-16 3348
$\begin{array}{llll}937 & -16 & 4 & 16\end{array}$
937-17 211
939-16 4248
940-16 4288
941-16 2310
941-16 1341

## DAY 20

959-24 6111
$959-24 \quad 7113$
959-25 6133
959-27 4122
$\begin{array}{llll}957 & -27 & 3 & 105\end{array}$
$\begin{array}{llll}956 & -28 & 3 & 90\end{array}$
$\begin{array}{llll}955 & -28 & 3 & 109\end{array}$
956 -26 3109

## DAY 27

$\begin{array}{llll}961 & -20 & 1 & 85\end{array}$
959-20 $\quad 3 \quad 98$
957-21 4104
$\begin{array}{llll}956 & -23 & 25\end{array}$
954-21 3139
953-22 3118
952-23 5104
952-23 2136

PP TT VV DD DAY 7
952-15 7108
952-15 5109
$\begin{array}{llll}951 & -17 & 28\end{array}$
$\begin{array}{llll}951 & -18 & 2 & 53\end{array}$
$\begin{array}{llll}951 & -18 & 2 & 57\end{array}$
950-17 1216
950-16 5282
950-16 3279
DAY 14
943-15 1338
944-14
945-16
946-17
947-18
948-18
950-16 $\quad 3187$
953-16 6154 DAY 21
956-24 3116
$\begin{array}{llll}956 & -24 & 5 & 108\end{array}$
955-25 4127
955-25 2111
955-26 0
956-27 0
956-27
957-26

## DAY 28

$\begin{array}{llll}951 & -25 & 3 & 135\end{array}$
$\begin{array}{llll}950 & -24 & 3 & 106\end{array}$
$\begin{array}{llll}948 & -25 & 3 & 104\end{array}$
$\begin{array}{llll}946 & -25 & 4 & 88\end{array}$
944-28 4352
$\begin{array}{llll}941 & -32 & 0 & 0\end{array}$
$\begin{array}{llll}938 & -31 & 6 & 23\end{array}$

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-18.6$ STD DEV $=4.6$ MAX $=-7.4$ AT 1310 GMT ON DAY 9 MIN $=-32.6$ AT 1350 GMT ON DAY 28
* THETA (K) * MEAN $=258.05$
* PRESSURE (MB) * MEAN $=952.9$ STD DEV $=9.0$ MAX $=971.4$ AT 540 GMT ON DAY 25 MIN $=930.3$ AT 1820 GMT ON DAY 29
* WINDS (M/S) * MEAN $=4.6$ STD DEV $=3.2$ RESULTANT $=1.6$ FROM 127. CONSTANCY $=0.35$ MAX $=25.8$ FROM 185. AT 120 GMT DAY 10 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $1.6 \%$ WINDS: $16.5 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{llllllllllllllllllll} & 9 & 3 & 3 & 4 & 7 & 24 & 11 & 11 & 6 & 2 & 1 & 1 & 5 & 5 & 3 & 6\end{array}$

* TEMPERATURE (C) * MEAN $=-25.6$ STD DEV $=4.9$ MAX $=-12.0$ AT 2250 GMT ON DAY 5 MIN $=-37.5$ AT 2300 GMT ON DAY 24
* THETA (K) * MEAN $=250.53$
* PRESSURE (MB) * MEAN $=959.0$ STD DEV $=10.7$ MAX $=987.4$ AT 220 GMT ON DAY 19 MIN $=937.6$ AT 2120 GMT ON DAY 5
* $\operatorname{WINDS}(M / S) *$ MEAN $=4.3$ STD DEV $=2.3$ RESULTANT $=1.4$ FROM 314. CONSTANCY $=0.33$ MAX $=15.4$ FROM 344 . AT 650 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \% \quad$ WINDS: $51.2 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 15 & 29 & 33 & 17 & 3 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PERCENT

$$
\begin{array}{llllllllllllllll}
6 & 3 & 2 & 4 & 4 & 6 & 3 & 9 & 5 & 4 & 6 & 2 & 2 & 15 & 23 & 8
\end{array}
$$

MAY 97
HR PP TT VV DD DAY 1

| 00 | 955 | -31 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 954 & -30 & 5 & 219\end{array}$
$\begin{array}{lllll}06 & 954 & -31 & 5 & 271\end{array}$

| 09 | 953 | -31 | 1 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}12 & 952 & -29 & 3 & 279\end{array}$
$\begin{array}{lllll}15 & 951 & -26 & 9 & 285\end{array}$

| 18 | 949 | -24 | 9 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}21 & 947-23 \quad 5305\end{array}$
DAY 8

| 00 | 957 | -28 | 1 |
| :--- | :--- | :--- | :--- |


| 03 | 957 | -27 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}06 & 957 & -26 & 3 & 298\end{array}$

| 09 | 957 | -27 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}12 & 957 & -26 & 5 & 313\end{array}$
$\begin{array}{llll}15 & 956 & -28 & 4 \\ 326\end{array}$
$\begin{array}{llll}18 & 953 & -27 & 7 \\ 326\end{array}$
$\begin{array}{llll}21 & 952 & -27 & 9 \\ 327\end{array}$ DAY 15
$\begin{array}{lllll}00 & 955 & -33 & 4 & 257\end{array}$
$\begin{array}{lllll}03 & 953 & -32 & 6 & 305\end{array}$
$\begin{array}{lllll}06 & 952 & -31 & 6 & 133\end{array}$
$\begin{array}{llllll}09 & 950 & -33 & 5 & 305\end{array}$
$\begin{array}{lllll}12 & 946 & -28 & 8 & 300\end{array}$
$\begin{array}{llll}15 & 944 & -24 & 6 \\ 313\end{array}$

| 18 | 939 | -21 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}21 & 936 & -18 & 7\end{array} 157$ DAY 22
$\begin{array}{lllll}00 & 953 & -24 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 952 & -25 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 951 & -26 & 0 & 0\end{array}$
$09 \quad 949-26 \quad 0 \quad 0$
$\begin{array}{lllll}12 & 948 & -27 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 946 & -24 & 3 & 104\end{array}$
$\begin{array}{lllll}18 & 945 & -25 & 5 & 161\end{array}$
$\begin{array}{lllll}21 & 944 & -27 & 7 & 137\end{array}$ DAY 29
$00 \quad 938$-25 2205
$\begin{array}{llll}03 & 941 & -22 & 4 \\ 112\end{array}$
$\begin{array}{lllll}06 & 940 & -22 & 4354\end{array}$
$09 \quad 938-22 \quad 9315$
$\begin{array}{llll}12 & 935 & -20 & 10 \\ 329\end{array}$
$\begin{array}{llll}15 & 933 & -19 & 13 \\ 3 & 338\end{array}$
$\begin{array}{lllll}18 & 933 & -18 & 12 & 348\end{array}$
$\begin{array}{llll}21 & 933 & -19 & 7354\end{array}$

PP TT VV DD PP TT VV DD DAY 2
944-22 2270
$941-224270$
939-22 1322
$936-21 \quad 9285$
$\begin{array}{lll}935 & -22 & 984\end{array}$
$\begin{array}{llll}935 & -22 & 8 & 291\end{array}$

| 934 | -23 | 7 |
| :--- | :--- | :--- |

$933-23 \quad 6288$
DAY 9
950-27 9341
$\begin{array}{llll}948 & -25 & 7 & 12\end{array}$
$\begin{array}{llll}946 & -26 & 5 & 26\end{array}$
945-27
944-28
943-27
942-26
943-27

## DAY 16

933-20 5300
930-19 4334
927-14 7275
926-16 6334
925-13 9296
924-13 8315
$923-14 \quad 9310$
$\begin{array}{llll}925 & -12 & 9 & 66\end{array}$
DAY 23
943-30 6153
$\begin{array}{llll}942 & -30 & 5 & 132\end{array}$
942-29 5111
$942-30 \quad 2120$
$\begin{array}{llll}943 & -31 & 0 & 0\end{array}$
$\begin{array}{llll}943 & -32 & 2347\end{array}$
944-32 0
945 -32 2307
DAY 30
$\begin{array}{lll}934 & -17 & 295\end{array}$
$\begin{array}{llll}935 & -19 & 8 & 136\end{array}$
$\begin{array}{llll}937 & -21 & 12147\end{array}$
$\begin{array}{llll}940 & -24 & 9 & 154\end{array}$
$\begin{array}{llll}942 & -25 \quad 10 & 163\end{array}$
$\begin{array}{llll}944 & -26 & 6 & 178\end{array}$
$\begin{array}{llll}945 & -25 & 8 & 160\end{array}$
946-24 5320

DAY 3
933-21 8315
933-18 1271
$\begin{array}{llll}935 & -18 & 3 & 82\end{array}$
938-20 4209
938-20 0
938-20 9 9
935-19 $13 \quad 277$
$936-20 \quad 9309$
DAY 10
$\begin{array}{llll}943 & -26 & & \\ 944 & -27 & 6 & 118\end{array}$
$\begin{array}{llll}944 & -29 & 3 & 105\end{array}$
945-31 2111
946-31 0
$\begin{array}{llll}946 & -31 & 3 & 112\end{array}$
947-30 6167
948-31 4151 DAY 17
$\begin{array}{llll}927 & -12 & 7 & 92\end{array}$
$\begin{array}{llll}931 & -16 & 12 & 132\end{array}$
$\begin{array}{lllll}935 & -15 & 10 & 111\end{array}$
$\begin{array}{llll}940 & -15 & 12 & 147\end{array}$
$\begin{array}{llll}945 & -15 & 12 & 143\end{array}$
$\begin{array}{llll}947 & -17 & 12 & 136\end{array}$
$\begin{array}{llll}950 & -18 & 7 & 142\end{array}$
953-20 167 DAY 24
$\begin{array}{llll}946 & -33 & 5 & 309\end{array}$
946-30 $\quad 5 \quad 317$
$\begin{array}{llll}946 & -29 & 7 & 299\end{array}$
$\begin{array}{llll}946 & -26 & 6 & 310\end{array}$
$\begin{array}{llll}947 & -24 & 5 & 84\end{array}$
$\begin{array}{llll}949 & -25 & 7 & 111\end{array}$
$\begin{array}{llll}950 & -26 & 5 & 59\end{array}$
$\begin{array}{llll}951 & -27 & 5 & 19\end{array}$

## DAY 31

947-24 3 9
947-26 2358
948-25 4296
949-24 3322
949-23 4354
$\begin{array}{llll}950 & -23 & 2343\end{array}$
$\begin{array}{llll}951 & -22 \quad 2 \quad 64\end{array}$

PP TT VV DD

## DAY 4

935-21 6288
$935-24 \quad 6329$
$\begin{array}{llll}934 & -26 & 5 & 327\end{array}$
$\begin{array}{llll}934 & -26 & 8 & 306\end{array}$
$\begin{array}{llll}934 & -26 & 6 & 313\end{array}$
$\begin{array}{llll}935 & -25 & 8 & 323\end{array}$

| 936 | -23 | 7 | 326 | 942 | -20 | 8 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllll}937 & -22 & 6 & 302 & 943 & -21 \\ 6 & 300\end{array}$
DAY 11
948-32 2130
949-32
949-32
949-32
949-33 $\begin{array}{llll}9 & -396\end{array}$
949-34 3302
949-34
950-34
DAY 18
955-19 3244
955-18 0
953-20 6320
950-21 8313
947-23 7326
$944-23 \quad 9330$
$942-20 \quad 9329$
941-20 9327
DAY 25
951-26 2268
951-27 6312
952-28 6295
952-27 4302
952-25 0
$\begin{array}{llll}953 & -24 & 3 & 81\end{array}$
$\begin{array}{llll}952 & -25 & 4 & 88\end{array}$
$\begin{array}{llll}951 & -26 & 3 & 37\end{array}$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-25.0$ STD DEV $=5.1$ MAX $=-11.8$ AT 150 GMT ON DAY 17 MIN $=-36.1$ AT 1230 GMT ON DAY 13
* THETA (K) * MEAN $=252.07$
* PRESSURE (MB) * MEAN $=947.2$ STD DEV $=8.6$ MAX $=965.2$ AT 410 GMT ON DAY 27 MIN $=922.7$ AT 1710 GMT ON DAY 16
* WINDS (M/S) * MEAN $=4.9$ STD DEV $=3.1$ RESULTANT $=1.7$ FROM 314. CONSTANCY $=0.35$ MAX $=19.8$ FROM 140 . AT 920 GMT DAY 17
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \% \quad$ WINDS: $14.9 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllllll}\text { PERCENT } & 4 & 2 & 1 & 2 & 4 & 8 & 5 & 7 & 2 & 2 & 1 & 2 & 7 & 15 & 23 & 14\end{array}$

* TEMPERATURE (C) * MEAN $=-22.8$ STD DEV $=5.4$ MAX $=-7.6$ AT 2210 GMT ON DAY 20 MIN $=-32.1$ AT 910 GMT ON DAY 17
* THETA (K) * MEAN = 253.28
* PRESSURE (MB) * MEAN $=959.9$ STD DEV $=11.1$ MAX $=982.0$ AT 930 GMT ON DAY 22 MIN $=935.1$ AT 1930 GMT ON DAY 9
* WINDS (M/S) * MEAN $=6.1$ STD DEV $=5.3$ RESULTANT $=1.8$ FROM 225. CONSTANCY $=0.30$ MAX $=37.2$ FROM 177 . AT 2350 GMT DAY 18 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.7 \%$ PRESSURE: $1.7 \%$ WINDS: $5.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllll}\text { PERCENT } & 6 & 2 & 2 & 2 & 2 & 4 & 5 & 7 & 18 & 6 & 2 & 4 & 5 & 10 & 13 & 11\end{array}$

HR PP TT VV DD DAY 1

PP TT WV DD

## DAY 2

PP TT VV DD dAY 3

PP TTVV DD DAY 4

PP TTVV DD DAY 5

PP TT VV DD DAY 6

TT W DD DAY 7

DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

* TEMPERATURE ( $C$ ) * MEAN $=0.0$ STD DEV $=0.0$ mAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0
* theta (K) * MEAN $=0.00$


* MISSING 3-hourly observations * TEMPERATURE: $99.2 \%$ PRESSURE: $99.2 \%$ WINDS: $99.2 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrr}\text { HIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { P }\end{array}$
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
$\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


DAY 8
DAY 9
DAY 10
DAY 11

|  | DAY 8 | DAY 9 | DAY 10 |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 |  |  |  |  |
| 03 |  |  |  |  |
| 06 |  |  |  |  |
| 09 |  |  |  |  |
| 12 |  |  |  |  |
| 15 |  |  |  |  |
| 18 |  |  |  |  |


|  |  | DAY | 5 |  | DAY | 16 |  | DAY | 17 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 962 | -14 | 5168 | 964 | -16 | 6151 | 961 | -11 |  |
| 03 | 963 | -14 | 6180 | 964 | -16 | 5140 | 961 | -12 |  |
| 06 | 964 | -14 | 6170 | 963 | -16 | 5130 | 961 | -13 |  |
| 09 | 964 | -15 | 6161 | 963 | -16 | 4140 |  |  |  |
| 12 | 965 | -16 | 7156 |  |  |  | 960 | -14 |  |
| 15 | 965 | -16 | 5154 |  |  |  | 959 | -15 |  |
| 18 | 965 | -17 | 6149 | 961 | -14 | 2113 | 958 | -14 |  |
| 21 | 965 | -16 | 7140 | 961 | -13 |  | 958 | -13 |  |
|  |  | DAY | 22 |  | DAY | 23 |  | DAY | 24 |
| 00 | 935 | -18 | 4319 | 933 | -14 | 5215 | 932 | -11 | 14189 |
| 03 | 933 | -17 | 3286 | 930 | -13 | 8261 | 937 | -11 | 11163 |
| 06 | 933 | -18 | 4289 | 928 | -12 | 15202 | 943 | -12 | 14161 |
| 09 | 933 | -18 | 2305 | 926 | -11 | 16222 | 945 | -13 | 14181 |
| 12 | 932 | -17 | 2306 | 925 | -11 | 12237 | 946 | -14 | 8150 |
| 15 | 932 | -16 | 4133 | 923 | -11 | 15233 | 946 | -13 | 9175 |
| 18 | 933 | -15 | 10184 | 923 | -10 | 16192 | 947 | -12 | 6187 |
| 21 | 933 | -15 | 15191 | 927 | -11 | 15187 | 947 | -11 | 9170 |
|  |  | DAY | 29 |  | DAY | 30 |  | DAY | 31 |
| 00 | 948 | -14 | $2 \quad 21$ | 944 | -12 | 4172 | 948 | -9 | 00 |
| 03 | 948 | -14 | 1108 | 943 | -12 | 4158 | 948 | -13 | 446 |
| 06 | 948 | -14 | 142 | 943 | -13 | 3171 | 947 | -14 | 10360 |
| 09 | 947 | -16 | 287 | 943 | -14 | 4164 | 945 | -15 | 8360 |
| 12 | 946 | -18 | 00 | 945 | -15 | 3171 | 944 | -17 | 6360 |
| 15 | 946 | -16 | 00 | 946 | -15 | 1212 | 943 | -17 | 4291 |
| 18 | 945 | -16 | 00 | 946 | -14 | 146 | 943 | -17 | 4279 |
| 21 | 944 | -14 | 3156 | 947 | -13 | 2319 | 943 | -12 | 2199 |



PP TT VV DD DAY 7

HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 942-11 & 4 & 136\end{array}$
$\begin{array}{llllll}03 & 940 & -13 & 7 & 120\end{array}$
$\begin{array}{lllll}06 & 938 & -14 & 8 & 181\end{array}$
$\begin{array}{lllll}09 & 936 & -15 & 7 & 195\end{array}$
$\begin{array}{lllll}12 & 936 & -16 & 8 & 208\end{array}$
$\begin{array}{lllll}15 & 937 & -18 & 12 & 165\end{array}$
$\begin{array}{lllll}18 & 939 & -17 & 7 & 189\end{array}$
$\begin{array}{lllll}21 & 941 & -14 & 2 & 46\end{array}$ DAY 8

| 00 | 955 | -7 | 10 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llllll}03 & 956 & -5 & 12 & 216\end{array}$
$\begin{array}{llll}06 & 955 & -5 & 5 \\ 341\end{array}$
$\begin{array}{lllll}09 & 952 & -7 & 7 & 254\end{array}$
$\begin{array}{lllll}12 & 950 & -7 & 4 & 265\end{array}$
$\begin{array}{lllll}15 & 950 & -8 & 8 & 23\end{array}$
$\begin{array}{lllll}18 & 952 & -7 & 6 & 11\end{array}$
$\begin{array}{lllll}21 & 955 & -6 & 11 & 194\end{array}$ DAY 15
$\begin{array}{lllll}00 & 956 & -3 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 955 & -4 & 2 & 54\end{array}$
$\begin{array}{lllll}06 & 955 & -5 & 2 & 4\end{array}$
$\begin{array}{lllll}09 & 954 & -7 & 9 & 345\end{array}$
$\begin{array}{lllll}12 & 954 & -6 & 5 & 81\end{array}$
$\begin{array}{lllll}15 & 954 & -7 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 956 & -6 & 2 & 39\end{array}$
$\begin{array}{lllll}21 & 957 & -4 & 2360\end{array}$ DAY 22
$\begin{array}{lllll}00 & 973 & -5 & 6 & 151\end{array}$
$\begin{array}{lllll}03 & 973 & -5 & 8 & 139\end{array}$
$\begin{array}{lllll}06 & 974 & -5 & 6 & 136\end{array}$
$\begin{array}{lllll}09 & 975 & -6 & 6 & 139\end{array}$
$\begin{array}{lllll}12 & 976 & -7 & 5 & 168\end{array}$
$\begin{array}{lllll}15 & 977 & -7 & 2 & 165\end{array}$
$\begin{array}{lllll}18 & 977 & -5 & 5 & 175\end{array}$
$\begin{array}{lllll}21 & 978 & -5 & 6 & 180\end{array}$ DAY 29
$\begin{array}{llll}00 & 963-10 & 8 & 151\end{array}$
$\begin{array}{lllll}03 & 964 & -9 & 4 & 125\end{array}$
$\begin{array}{lllll}06 & 965 & -9 & 4 & 172\end{array}$
$\begin{array}{lllll}09 & 966 & -9 & 2 & 232\end{array}$
$\begin{array}{llll}12 & 967-10 \quad 4 & 244\end{array}$
$\begin{array}{llll}15 & 968 & -10 & 2154\end{array}$
$\begin{array}{lllll}18 & 969 & -7 & 0 & 0\end{array}$
$21 \quad 970-4 \quad 0 \quad 0$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{lll}942 & -15 & 2101\end{array}$
942 -15 7130
$\begin{array}{llll}943 & -16 & 6360\end{array}$
944-17 6360
944-19 $8 \quad 9$
944-18 $\quad 3101$
944-19 2125
$943-19 \quad 5102$ DAY 9
$\begin{array}{llll}958 & -7 & 12 & 163\end{array}$
$\begin{array}{llll}961 & -8 & 11 & 165\end{array}$
$\begin{array}{llll}964 & -7 & 19 & 156\end{array}$
$\begin{array}{llll}964 & -7 & 10 & 187\end{array}$
$\begin{array}{llll}965 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}965 & -6 & 7 & 198\end{array}$
$\begin{array}{llll}965 & -6 & 4 & 184\end{array}$
$966 \quad-5 \quad 4279$ DAY 16

| 958 | -6 | 7327 | 957 | -6 | 6358 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 959 | -6 | 7320 | 956 | -4 | 6357 |
| 959 | -6 | 7360 | 955 | -4 | 8122 |
| 960 | -7 | 7337 | 955 | 5 | 7191 |
| 961 | -7 | 5320 | 955 | -6 | 7317 |
| 960 | -7 | 66 | 955 | -8 | 5108 |
| 959 | -7 | $7 \quad 36$ | 955 | -5 | 4153 |
| 958 | -4 | 16 | 955 | -4 | 5284 |
| AY 23 |  |  | DAY 24 |  |  |
| 978 | -4 | 174 | 978 | 4 | 7175 |
| 978 | -4 | 4172 | 977 | -5 | 7171 |
| 978 | -5 | 5189 | 976 | -6 | 9174 |
| 977 | -4 | 4150 | 975 | -5 | 12181 |
| 978 | -4 | 5150 | 976 | -5 | 13160 |
| 978 | -4 | 5133 | 975 | -5 | 11154 |
| 978 | -5 | 7180 | 976 | -5 | 7. 161 |
| 978 | -4 | 6168 | 977 | -5 | 6161 |

PP TT VV DD PP TT VV DD PP TT VV DD DAY 4
$\begin{array}{llll}940 & -17 & 9 & 279\end{array}$
$\begin{array}{llll}939-17 & 9 & 298\end{array}$
937-16 9300
937-14 2355
935-14 10282
935-13 $8 \quad 279$
$935-911223$ $\begin{array}{llll}937 & -8 & 7 & 219\end{array}$ DAY 11 $\begin{array}{llll}965 & -3 & 1307\end{array}$
$\begin{array}{llll}964 & -1 & 1 & 296\end{array}$
$\begin{array}{llll}963 & -2 & 8 & 216\end{array}$
$\begin{array}{llll}963 & -3 & 8 & 229\end{array}$
$\begin{array}{llll}962 & -5 & 8 & 160\end{array}$
$\begin{array}{llll}962 & -7 & 10 & 182\end{array}$
$\begin{array}{llll}963 & -6 & 14 & 157\end{array}$
$\begin{array}{llll}963 & -4 & 7 & 177\end{array}$ DAY 18
$\begin{array}{llll}955 & -3 & 6 & 285\end{array}$
$\begin{array}{llll}955 & -3 & 3 & 99\end{array}$
$952 \quad-5 \quad 9232$
$953-510250$
$\begin{array}{lll}953 & -6 & 10\end{array} 92$
$\begin{array}{llll}954 & -6 & 7 & 80\end{array}$
$\begin{array}{llll}956 & -6 & 7 & 5\end{array}$
$\begin{array}{llll}956 & -4 & 7360\end{array}$
DAY 25
$\begin{array}{llll}977 & -4 & 6174\end{array}$
$\begin{array}{llll}977 & -4 & 6 & 160\end{array}$
$\begin{array}{llll}977 & -4 & 6 & 177\end{array}$
$\begin{array}{llll}977 & -4 & 5 & 188\end{array}$
$\begin{array}{llll}977 & -5 & 6 & 198\end{array}$
$\begin{array}{llll}977 & -5 & 6 & 203\end{array}$
$\begin{array}{llll}976 & -5 & 4 & 208\end{array}$
$976 \quad-5 \quad 5206$

DAY 5
$\begin{array}{lll}938 & -8 \quad 4 & 279\end{array}$
$\begin{array}{llll}939 & -8 & 12 & 219\end{array}$
$\begin{array}{llll}942 & -5 & 2 & 149\end{array}$
$\begin{array}{llll}943 & -7 & 10 & 192\end{array}$
$\begin{array}{llll}945 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}948 & -8 & 6 & 240\end{array}$
$\begin{array}{llll}950 & -8 & 6 & 154\end{array}$
$\begin{array}{llll}951 & -8 & 9 & 187\end{array}$
DAY 12
$\begin{array}{llll}965 & -3 & 1284\end{array}$
$\begin{array}{llll}964 & -4 & 3 & 326\end{array}$
$\begin{array}{llll}965 & -5 & 3 & 322\end{array}$
$964-711147$
$\begin{array}{llll}965 & -9 & 4 & 279\end{array}$
$\begin{array}{llll}965 & -7 & 3 & 112\end{array}$
$\begin{array}{llll}964 & -6 & 5 & 157\end{array}$
$\begin{array}{llll}963 & -6 & 10 & 181\end{array}$ DAY 19

| 957 | -4 | 5 | 334 |
| :--- | :--- | :--- | :--- |
| 959 | -2 | 5 | 360 |
| 959 | -3 | 10 | 360 |
| 960 | -4 | 3 | 94 |
| 960 | -5 | 5 | 50 |
| 960 | -5 | 6 | 338 |
| 961 | -2 | 1 | 352 |
| 961 | -4 | 7 | 88 |
|  | DAY | 26 |  |
| 976 | -4 | 4 | 194 |
| 975 | -3 | 5 | 196 |
| 974 | -5 | 4 | 198 |
| 974 | -5 | 5 | 185 |
| 973 | -5 | 3 | 199 |
| 972 | -6 | 3 | 198 |
| 972 | -5 | 2 | 230 |
| 971 | -4 | 2 | 234 |

PP TT VV DD DAY 7
$\begin{array}{llll}957 & -6 & 4 & 284\end{array}$
$\begin{array}{llll}958 & -5 & 3 & 70\end{array}$
$\begin{array}{llll}958 & -6 & 2 & 320\end{array}$
$\begin{array}{llll}957 & -7 & 8 & 130\end{array}$
$\begin{array}{llll}956 & -9 & 3 & 167\end{array}$
$\begin{array}{llll}958 & -9 & 5 & 205\end{array}$
$\begin{array}{llll}958 & -8 & 3 & 98\end{array}$
$\begin{array}{llll}957 & -7 & 7 & 360\end{array}$ DAY 14
$\begin{array}{llll}960 & -7 & 7 & 326\end{array}$
$\begin{array}{llll}959 & -5 & 0 & 0\end{array}$ $\begin{array}{llll}959 & -8 & 6 & 91\end{array}$ $\begin{array}{llll}959 & -8 & 7 & 139\end{array}$ $\begin{array}{llll}959 & -9 & 5 & 305\end{array}$ $\begin{array}{llll}957 & -9 & 6 & 336\end{array}$ $\begin{array}{llll}958 & -8 & 2 & 75\end{array}$ $\begin{array}{llll}957 & -7 & 7 & 316\end{array}$ DAY 21
$969 \quad 1 \quad 4101$
$968 \quad 0 \quad 1250$
$968 \quad 0 \quad 6340$
$\begin{array}{llll}968 & -2 & 8 & 111\end{array}$
$\begin{array}{llll}969 & -2 & 6 & 216\end{array}$
$\begin{array}{llll}970 & -1 & 6 & 142\end{array}$
$\begin{array}{llll}970 & -5 & 11 & 167\end{array}$
$\begin{array}{llll}972 & -4 & 7 & 154\end{array}$
DAY 28
$\begin{array}{llll}961 & -3 & 2 & 144\end{array}$
$\begin{array}{llll}960 & -5 & 4 & 153\end{array}$
$\begin{array}{llll}959 & -7 & 4 & 154\end{array}$
$\begin{array}{llll}960 & -9 & 3 & 156\end{array}$
$\begin{array}{llll}960 & -9 & 4 & 151\end{array}$
$\begin{array}{llll}960 & -11 & 5 & 147\end{array}$
$\begin{array}{llll}961 & -10 & 3 & 132\end{array}$
962-11 $8 \quad 143$

* temperature ( $C$ ) * mean $=-7.0$ Std dev $=4.0$ max $=2.2$ at 2340 GMT ON DAY 20 min $=-20.0$ at 1430 GMt on day 3
* TheTA (K) * MEAN $=269.21$
* PRESSURE (MB) * MEAN $=960.4$ STD DEV $=11.3$ MAX $=978.0$ AT 100 GMT ON DAY 23 MIN $=934.0$ AT 1420 GMT ON DAY 4
* WINDS (M/S) * MEAN $=5.3 \mathrm{STD}$ DEV $=3.3$ RESULTANT $=1.6$ FROM 176. CONSTANCY $=0.30 \mathrm{MAX}=21.1$ FROM 167. AT 2240 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\begin{array}{ll}40-45 & 45-50 \\ 50-55 & 55-60 \\ 60+\end{array}$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllllll}\text { PERCENT } & 10 & 1 & 4 & 3 & 5 & 4 & 7 & 18 & 12 & 7 & 5 & 3 & 3 & 6 & 7 & 6\end{array}$

## STATION : 8921 WHITLOCK

LAT : 76.14S LONG : 168.39E ELEVATION : 274 M
DEC 97


* TEMPERATURE (C) * MEAN $=-4.9$ STD DEV $=2.2$ MAX $=1.6$ AT 2200 GMT ON DAY 28 MIN $=-11.1$ AT 1300 GMT ON DAY 2
* THETA (K) * MEAN $=271.07$
* PRESSURE (MB) * MEAN $=964.3$ STD DEV $=5.2$ MAX $=976.6$ AT 550 GMT ON DAY 5 MIN $=951.3$ AT 1740 GMT ON DAY 13
* WINDS (M/S) * MEAN $=3.8$ STD DEV $=2.1$ RESULTANT $=0.2$ FROM 35. CONSTANCY $=0.06$ MAX $=12.4$ FROM 132 . AT 1050 GMT DAY 12
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$

WIND SPEED (M/S): 0-2 2-4 $4-6 \quad 6-818-1010-1212-14 \quad 14-16 \quad 16-18 \quad 18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 6$ PERCENT: WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 14 & 7 & 3 & 2 & 2 & 6 & 7 & 11 & 11 & 3 & 3 & 1 & 5 & 8 & 8 & 9\end{array}$

PP TT VV DD DAY 2 DAY 1
 $\begin{array}{lrrr}\text { PP } & \text { TT } & V V & D D \\ \text { DAY } & 3 & \end{array}$

PP $\begin{array}{rrrrrr}\text { TT } & \text { VV } & \text { DD } & \text { PP } & \text { TT } & \text { VV } \\ \text { DAY } & 4 & & \text { DAY } & 5\end{array}$

PP DAY 6
$\begin{array}{lrrr}\text { PP } & \text { TT } & \text { VV } & \text { DD } \\ \text { DAY } & 7 & \end{array}$

DAY 10

DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

03
06
09
12
15
18
21

|  | DAY 22 |  |  | dAY 23 |  |  | DAY 24 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 821 | -10 | 4270 | 826 | -10 | 1352 | 825 | -11 | 3358 |
| 03 | 821 | -11 | 6282 | 826 | -12 | 1340 | 825 | -12 | 2305 |
| 06 | 822 | -12 | 5268 | 827 | -13 | 2360 | 824 | -15 | 6277 |
| 09 | 823 | -13 | 5295 | 827 | -14 | 312 | 824 | -15 | 4296 |
| 12 | 824 | -12 | 4282 | 826 | -15 | 4 | 824 | -15 | 4322 |
| 15 | 824 | -12 | 4330 | 826 | -15 | 3 | 822 | -14 | 360 |
| 18 | 825 | -12 | 4347 | 826 | -13 | 3 | 821 | -14 | $6 \quad 21$ |
| 21 | 826 | -12 | 3341 | 825 | -12 | 315 | 819 | 13 | 515 |
|  | DAY 29 |  |  | day 30 |  |  | day 31 |  |  |
| 00 | 824 | -15 | 3360 | 823 | -14 | 6357 | 831 | -11 | 3292 |
| 03 | 823 | -16 | 3360 | 824 | -16 | 8360 | 832 | -12 | 3295 |
| 06 | 822 | -20 | 343 | 825 | -16 | 8348 | 832 | -14 | 3322 |
| 09 | 822 | -20 | 352 | 827 | -16 | 7350 | 833 | -16 | 4343 |
| 12 | 822 | -20 | $4 \quad 23$ | 827 | -17 | 7360 | 833 | -17 | 4341 |
| 15 | 822 | -17 | 315 | 828 | -16 | 8347 | 833 | -16 | 5343 |
| 18 | 822 | -15 | $6 \quad 12$ | 829 | -14 | 8352 | 833 | -13 | 5338 |
| 21 | 823 | -15 | 68 | 830 | -11 | 3334 | 833 | -11 | 6300 |

DAY 26
817-15 9 358
817-16 $8 \quad 2$
817-16 9
818-16 $8 \quad 12$
818-16 715
818-14 5333
$820-13 \quad 6352$
$820-13 \quad 7358$

| 828 | -11 | 4 | 307 |
| ---: | ---: | ---: | ---: |
| 828 | -12 | 4 | 305 |
| 828 | -12 | 3 | 289 |
| 827 | -11 | 3 | 305 |
| 827 | -10 | 3 | 315 |
| 826 | -9 | 4 | 315 |
| 826 | -8 | 2 | 322 |

825-10 6347

DAY 27
821-13 $8 \quad 11$
$\begin{array}{llll}821 & -14 & 5 & 2\end{array}$
822-15 5358
823-17 $6 \quad 21$
824-18 $\quad 5 \quad 21$
825-18 $\quad 6 \quad 46$
$\begin{array}{llll}825 & -17 & 4 & 22\end{array}$
$825-16 \quad 4 \quad 22$
-10 6347

| 828 | -11 | 4 | 307 | 824 | -11 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | 28

$\begin{array}{lllllll}828 & -12 & 4 & 305 & 823 & -12 & 6\end{array} 35$
$\begin{array}{lllllll}828 & -12 & 3 & 289 & 823 & -13 & 6\end{array} 26$
$\begin{array}{lllllll}827 & -11 & 3 & 305 & 822 & -13 & 4\end{array} 19$
$\begin{array}{lllllll}827 & -10 & 3 & 315 & 821 & -10 & 3\end{array} 14$
$\begin{array}{lllllll}826 & -9 & 4 & 315 & 821 & -9 & 2 \\ 326\end{array}$ $\begin{array}{llllllll}826 & -8 & 2 & 322 & 821 & -9 & 3 & 286\end{array}$

DAY 28
825-14 $4 \quad 32$
$\begin{array}{llll}825 & -15 & 3 & 75\end{array}$
824-19 $4 \quad 67$
825-21 $5 \quad 50$
$\begin{array}{llll}825 & -21 & 5 & 23\end{array}$
824-20 $\quad 5 \quad 12$
824-18 $\quad 4 \quad 2$
$824-17 \quad 6360$

* TEMPERATURE ( $C$ ) * MEAN $=-14.3$ StD DEV $=2.9$ MAX $=-7.9$ at 2050 GMT ON DAY 20 MIN $=-21.2$ AT 1010 GMT ON DAY 28
* theta (K) * MEAN $=273.63$
* PRESSURE (MB) * MEAN $=823.8$ STD DEV $=4.3$ MAX $=833.5$ AT 1940 GMT ON DAY 31 MIN $=815.9$ AT 450 GMT ON DAY 25
* WINDS (M/S) * MEAN $=4.6$ STD DEV $=1.8$ RESULTANT $=3.9$ FROM 353. CONSTANCY $=0.84$ MAX $=9.8$ FROM 360. AT 120 GMT DAY 26
* MISSING 3-hourly observations * TEMPERATURE: $61.7 \%$ PRESSURE: $61.7 \%$ WINDS: $61.7 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW

| PERCENT | 27 | 21 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 13 | 18 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

HR PP TT VV DD
$\begin{array}{llll}00 & 833 & -12 & 7 \\ 317\end{array}$ $\begin{array}{lllll}03 & 832 & -11 & 8 & 307\end{array}$ $\begin{array}{lllll}06 & 832 & -11 & 8 & 305\end{array}$ $\begin{array}{llll}09 & 832-11 & 7289\end{array}$ $\begin{array}{llll}12 & 833 & -10 & 6 \\ 293\end{array}$ $\begin{array}{llll}15 & 833 & -11 & 9\end{array}$ 18
$\begin{array}{llll}21 & 834-10 \quad 9300\end{array}$ DAY 8
$\begin{array}{llll}00 & 819 & -15 & 2 \\ 324\end{array}$
$\begin{array}{lllll}03 & 819 & -17 & 3 & 337\end{array}$
$\begin{array}{lllll}06 & 819 & -20 & 2 & 300\end{array}$
$\begin{array}{lllll}09 & 819 & -22 & 3 & 43\end{array}$
$\begin{array}{lllll}12 & 819 & -22 & 3 & 42\end{array}$
$\begin{array}{lllll}15 & 819 & -21 & 2326\end{array}$
$\begin{array}{llll}18 & 819 & -21 & 2347\end{array}$
$\begin{array}{llll}21 & 818 & -20 & 212\end{array}$ DAY 15
$\begin{array}{lllll}00 & 814 & -23 & 8 & 25\end{array}$ $\begin{array}{lllll}03 & 814 & -25 & 8 & 28\end{array}$ $\begin{array}{lllll}06 & 814 & -28 & 7 & 25\end{array}$ $\begin{array}{lllll}09 & 815 & -29 & 8 & 18\end{array}$ $\begin{array}{lllll}12 & 815 & -28 & 7 & 9\end{array}$ $\begin{array}{lllll}15 & 816 & -26 & 7 & 1\end{array}$ $\begin{array}{lllll}18 & 817 & -25 & 5 & 1\end{array}$ $\begin{array}{llll}21 & 818 & -24 & 6 \\ 360\end{array}$ DAY 22
$\begin{array}{lllll}00 & 818 & -14 & 5 & 309\end{array}$ $\begin{array}{llll}03 & 818 & -14 & 7 \\ 319\end{array}$ $\begin{array}{llll}06 & 818 & -14 & 5 \\ 313\end{array}$ $\begin{array}{llll}09 & 819 & -15 & 6320\end{array}$ $\begin{array}{llll}12 & 820 & -16 & 6326\end{array}$ $\begin{array}{llll}15 & 820 & -18 & 6\end{array} 357$ $\begin{array}{llll}18 & 820 & -16 & 6 \\ 347\end{array}$
$21 \quad 820-16 \quad 6345$

PP TT VV DD DAY 2
$\begin{array}{lll}835 & -9 & 8 \\ 306\end{array}$
$\begin{array}{llll}836 & -9 & 8 & 305\end{array}$
837-12 8313
838-13 5343
838-14 $\quad 5 \quad 33$
837-13 $\quad 5 \quad 22$
834-13 $12 \quad 1$
DAY 9
818-20 3291
818-21 2279
818-21 1312
818-21 2315
818-21 2315
818-20 2343
818-19 3350
818-18 3354 DAY 16
819-23 $6 \quad 1$
$\begin{array}{llll}818 & -25 & 6 & 16\end{array}$
$\begin{array}{llll}818 & -27 & 6 & 21\end{array}$
819-23 $5 \quad 12$
820-23 4354
820-19 $3 \quad 343$
821-17 $3 \quad 360$
822-16 3351 DAY 23
820-16 7348
$819-17 \quad 6358$
819-19 6 352
818-18 8350
817-18 5360
816-19 5360
815-18 7352
814-17 5345
PP TT VV
DAY $\quad 3$

833-13 7360
832-15 5337
832-19 5360
$\begin{array}{llll}832 & -18 \quad 5 \quad 4\end{array}$
$\begin{array}{llll}832 & -17 & 5 & 360\end{array}$
832-12 5354
$\begin{array}{lll}831 & -9 & 5336\end{array}$

## DAY 10

818-18 4360
819-20 $4 \quad 26$
819-22 668
$819-30 \quad 64$
$820-28 \quad 9 \quad 25$
$\begin{array}{llll}820 & -26 & 7 & 18\end{array}$
$\begin{array}{llll}821 & -24 \quad 7 & 14\end{array}$
822-25 $10 \quad 8$
DAY 17
822-16 4336
823-20 7281
824-22 4323
825-24 $3 \quad 2$
825-22 1343
$\begin{array}{llll}824 & -26 & 5 & 67\end{array}$
823-20 5345
$823-17 \quad 4354$ DAY 24
814-17 6352
813-18 3345
813-19 2343
813-19 1 305
814-20 2239
814-21 4319
$815-21 \quad 4330$
816-21 3309

PP TT VV DD DAY 4
830-10 3324 830-10 $\quad 3319$ $\begin{array}{llll}830 & -12 & 3 & 8\end{array}$ 830-10 2347 $830-10 \quad 4358$ $830-11 \quad 4360$ 831-10 5322 831 -9 4350 DAY 11 823-24 7360 $823-26 \quad 8 \quad 21$ 823-27 $7 \quad 25$ 823-27 $6 \quad 21$ $\begin{array}{llll}823 & -24 & 7 & 22\end{array}$ 823-23 $8 \quad 22$ 822-23 632 $822-22 \quad 4 \quad 4$ DAY 18 822-15 5334 820-14 6309 $820-1510285$ $\begin{array}{llll}821 & -17 & 7 & 295\end{array}$ $\begin{array}{llll}821 & -17 & 5 & 324\end{array}$ $820-16 \quad 8 \quad 327$ $\begin{array}{llll}819 & -16 & 8 & 331\end{array}$ $819-16 \quad 8317$ DAY 25 817-22 5282 818-23 5288 $820-23 \quad 4278$ 822-24 4286 823-25 3316 $\begin{array}{llll}825 & -25 & 3 & 307\end{array}$ $\begin{array}{llll}826 & -25 & 4307\end{array}$

PP TT VV DD DAY 7
824-11 3327
823-11 2360
823-18 $5 \quad 26$
$\begin{array}{llll}822 & -17 & 5 & 5\end{array}$
821-17 $5 \quad 9$
820-14 6358
$820-14 \quad 4336$
819-14 4327
DAY 14
813-25 $5 \quad 30$ 813-26 $5 \quad 50$ $\begin{array}{llll}813 & -29 & 75\end{array}$ $\begin{array}{llll}814 & -30 \quad 7 \quad 52\end{array}$ $\begin{array}{llll}814 & -29 & 6 & 39\end{array}$ $\begin{array}{llll}814 & -27 & 7 & 47\end{array}$ $\begin{array}{llll}814 & -26 & 7 & 29\end{array}$ 814-24 815

DAY 21
819-25 11357 817-23 $\quad 8 \quad 351$ 817-23 6355 816-20 5345 816-17 4315 817-15 7302 817-14 8312 817-14-8293

DAY 28
$\begin{array}{lll}812 & -24 & 7341\end{array}$ $\begin{array}{llll}810 & -26 \quad 7 & 9\end{array}$ 809-26 $\quad 8 \quad 5$ 808-25 $9 \quad 15$ 807-22 $8 \quad 9$ $\begin{array}{llll}807 & -20 & 7 & 2\end{array}$ 806-19 11360

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-19.8$ STD DEV $=5.9$ MAX $=-7.0$ AT 2240 GMT ON DAY 3 MIN $=-31.5$ AT 650 GMT ON dAY 12
* THETA (K) * MEAN $=267.98$
* PRESSURE (MB) * MEAN $=821.6$ STD DEV $=6.9$ MAX $=838.2$ AT 900 GMT ON DAY 2 MIN $=805.7$ AT 2120 GMT ON DAY 28
* WINDS (M/S) * MEAN $=5.2$ STD DEV $=2.3$ RESULTANT $=4.0$ FROM 352. CONSTANCY $=0.78$ MAX $=12.5$ FROM 355. AT 2110 GMT DAY 27
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 1.3 \% PRESSURE: $1.3 \%$ WINDS: $1.3 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 Wind direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

HR PP TT VV DD $\begin{array}{rr}\text { DAY } & 1\end{array}$
$00 \quad 807-17 \quad 8 \quad 360$
$\begin{array}{lllll}03 & 807 & -16 & 11 & 355\end{array}$
$\begin{array}{lllll}06 & 808 & -16 & 11 & 357\end{array}$
$\begin{array}{lllll}09 & 810 & -16 & 12 & 351\end{array}$
$\begin{array}{lllll}12 & 811 & -17 & 9 & 338\end{array}$
$\begin{array}{lllll}15 & 812 & -17 & 9 & 360\end{array}$
$\begin{array}{lllll}18 & 813 & -16 & 8 & 347\end{array}$
$\begin{array}{llll}21 & 814 & -16 & 8 \\ 350\end{array}$ DAY 8
$\begin{array}{lllll}00 & 806 & -25 & 9 & 348\end{array}$
$\begin{array}{lllll}03 & 807 & -27 & 6 & 360\end{array}$
$\begin{array}{lllll}06 & 807 & -28 & 10 & 358\end{array}$
$\begin{array}{lllll}09 & 807 & -24 & 6 & 360\end{array}$
$\begin{array}{llll}12 & 808 & -22 & 6 \\ 357\end{array}$
$\begin{array}{lllll}15 & 808 & -22 & 8 & 345\end{array}$
$\begin{array}{llll}18 & 809 & -23 & 9 \\ 354\end{array}$
$21 \quad 809-22 \quad 7347$ DAY 15
$\begin{array}{llll}00 & 819 & -22 & 7352\end{array}$
$\begin{array}{lllll}03 & 818 & -23 & 7 & 1\end{array}$
$\begin{array}{lllll}06 & 818 & -23 & 7 & 360\end{array}$
$\begin{array}{lllll}09 & 817 & -26 & 8 & 5\end{array}$
$\begin{array}{lllll}12 & 816 & -25 & 7 & 360\end{array}$
$\begin{array}{lllll}15 & 815 & -23 & 5 & 4\end{array}$
$\begin{array}{lllll}18 & 814 & -22 & 5 & 337\end{array}$
$\begin{array}{lllll}21 & 813 & -22 & 5 & 8\end{array}$
DAY 22
$\begin{array}{lllll}00 & 820 & -28 & 9 & 49\end{array}$
$\begin{array}{lllll}03 & 821 & -30 & 8 & 56\end{array}$
$\begin{array}{lllll}06 & 821 & -30 & 10 & 52\end{array}$
$\begin{array}{lllll}09 & 820 & -30 & 7 & 37\end{array}$
$\begin{array}{lllll}12 & 820 & -30 & 8 & 45\end{array}$
$\begin{array}{lllll}15 & 820 & -29 & 6 & 53\end{array}$
$\begin{array}{lllll}18 & 819 & -27 & 7 & 39\end{array}$
$\begin{array}{lllll}21 & 819 & -25 & 8 & 28\end{array}$ DAY 29
$00 \quad 795-21 \quad 16360$
$\begin{array}{lllll}03 & 796 & -22 & 14 & 9\end{array}$
$\begin{array}{lllll}06 & 797 & -24 & 14 & 9\end{array}$
$\begin{array}{lllll}09 & 799 & -24 & 8 & 12\end{array}$
$\begin{array}{lllll}12 & 799 & -24 & 10 & 21\end{array}$
$\begin{array}{lllll}15 & 800 & -26 & 10 & 23\end{array}$
$\begin{array}{lllll}18 & 801 & -26 & 12 & 5\end{array}$
$\begin{array}{lllll}21 & 802 & -24 & 7 & 22\end{array}$

## PP TT VV DD

 DAY 2815-16 8347
816-16 7338
817-18.7350
817-19 7348
818-19 7352
817-18 6345
817-17 7344
817-17 5354 DAY 9
810-24 7358
$810-28 \quad 6 \quad 21$
$810-27 \quad 8360$
$\begin{array}{llll}811 & -29 & 7 & 18\end{array}$
811-27 6360
811 -26 6355
$812-25 \quad 5323$
812-28 3303

## DAY 16

811-25 530
$\begin{array}{llll}810 & -24 & 7 & 11\end{array}$
$\begin{array}{llll}809 & -28 & 6 & 47\end{array}$
$\begin{array}{llll}808 & -30 & 7 & 37\end{array}$
$\begin{array}{llll}806 & -32 & 6 & 63\end{array}$
$\begin{array}{llll}804 & -31 & 7 & 66\end{array}$
$803-30 \quad 7 \quad 70$
802-28 $8 \quad 56$
DAY 23
819-26 646
$\begin{array}{llll}818 & -28 & 8 & 26\end{array}$
$\begin{array}{llll}817 & -27 & 8 & 9\end{array}$
$\begin{array}{llll}817 & -27 & 8 & 14\end{array}$
$\begin{array}{llll}816 & -29 & 8 & 16\end{array}$
$\begin{array}{llll}815 & -28 & 8 & 9\end{array}$
$815-30 \quad 5 \quad 36$
$\begin{array}{llll}815 & -29 & 8 & 9\end{array}$

## DAY 30

$\begin{array}{llll}803 & -23 & 7 & 8\end{array}$
$805-25 \quad 6358$
$\begin{array}{llll}805 & -29 & 7 & 14\end{array}$
806-31 $8 \quad 15$
807-32 $8 \quad 15$
807-33 $8 \quad 35$
807-32 $9 \quad 19$
$\begin{array}{llll}807 & -30 & 9 & 21\end{array}$

PP TT VV DD DAY 3
816-17 6358
$\begin{array}{llll}815 & -20 & 6 & 18\end{array}$
$\begin{array}{llll}815 & -23 & 6 & 19\end{array}$
814-21 $\quad 6 \quad 15$
814-24 $5 \quad 22$
813-20 74
813-21 11355
813 -20 8360 DAY 10
813-29 3296
812-29 3327
811-29 4351
809 -32 $4 \quad 9$
$\begin{array}{llll}807 & -34 & 5 & 7\end{array}$
$\begin{array}{llll}804 & -29 \quad 6 & 360\end{array}$
$\begin{array}{llll}801 & -30 & 8 & 12\end{array}$
$\begin{array}{llll}799 & -31 \quad 7 \quad 40\end{array}$ DAY 17
802-29 $7 \quad 57$
$\begin{array}{llll}801 & -30 & 8 & 61\end{array}$
$\begin{array}{llll}801 & -30 & 8 & 66\end{array}$
$\begin{array}{llll}801 & -32 & 6 & 40\end{array}$
$\begin{array}{llll}803 & -34 & 6 & 40\end{array}$
$\begin{array}{llll}804 & -31 & 3 & 9\end{array}$
805-32 2295
806-33 1360 DAY 24
$\begin{array}{llll}814 & -29 & 5 & 9\end{array}$ 814-31 $\begin{array}{llll} & 8 & 18\end{array}$ 814-33 $6 \quad 29$ $\begin{array}{llll}815 & -35 & 6 & 19\end{array}$ $\begin{array}{llll}816 & -36 & 5 & 22\end{array}$ $\begin{array}{llll}817 & -37 & 5 & 37\end{array}$ $\begin{array}{llll}818 & -37 & 6 & 39\end{array}$ $\begin{array}{llll}819 & -36 & 5 & 23\end{array}$ DAY 31
807-26 $12 \quad 26$ $\begin{array}{llll}807 & -25 & 10 \quad 7\end{array}$ 807-25 7338 $\begin{array}{llll}808 & -29 & 4 & 1\end{array}$ $\begin{array}{llll}808 & -34 & 7 & 28\end{array}$ 807-33 $10 \quad 32$ $\begin{array}{lllll}805 & -31 & 11 & 22\end{array}$

PP TT VV DD DAY 4
811-20 352
809-23 $9 \quad 32$
808-21 $8 \quad 35$
806-21 $8 \quad 8$
806-22 $10 \quad 12$
806-22 94
807-23 $11 \quad 7$
808 -23 9357
DAY 11
$\begin{array}{llll}797 & -31 & 7 & 59\end{array}$
$\begin{array}{llll}796 & -32 & 6 & 37\end{array}$
$\begin{array}{llll}797 & -33 & 6 & 33\end{array}$
798-23 5357
$799-2144$
798-19 $4 \quad 9$
797-18 $\quad 6 \quad 39$
$\begin{array}{llll}793 & -16 \quad 6 \quad 30\end{array}$ DAY 18
807-35 3296
808-37 2352
808-40 2355
$\begin{array}{llll}808 & -41 & 3 & 15\end{array}$
808-44 445
$\begin{array}{llll}808 & -45 & 3 & 54\end{array}$
808-42 $3 \quad 21$
808-41 312
DAY 25
$\begin{array}{llll}819 & -36 & 5 & 19\end{array}$
$\begin{array}{llll}820 & -36 & 6 & 12\end{array}$
$\begin{array}{llll}821 & -37 & 5 & 29\end{array}$
$\begin{array}{llll}821 & -34 & 4 & 7\end{array}$
822-34 5360
823-36 5355
823 -36 6357
$\begin{array}{lllllllll}823 & -34 & 6 & 1 & 810 & -27 & 9 & 338\end{array}$

| PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 6 |  |  | DAY | 7 |  |
| 802 | -27 | 11 | 61 | 803 | -25 | 6 | 7 |
| 802 | -29 | 9 | 71 | 803 | -25 | 5 | 358 |
| 802 | -31 | 12 | 46 | 803 | -25 | 5 | 345 |
| 802 | -32 | 10 | 60 | 803 | -27 | 6 | 355 |
| 803 | -32 | 8 | 57 | 803 | -27 | 7 | 355 |
| 803 | -32 | 8 | 47 | 804 | -26 | 9 | 355 |
| 803 | -29 | 7 | 19 | 804 | -24 | 7 | 343 |
| 803 | -27 | 7 | 5 | 805 | -23 | 7 | 340 |
|  | DAY | 13 |  |  | DAY | 14 |  |
| 797 | -13 | 10 | 347 | 810 | -16 | 7 | 9 |
| 798 | -15 | 9 | 351 | 811 | -19 | 8 | 360 |
| 800 | -15 | 9 | 351 | 812 | -22 | 5 | 360 |
| 802 | -15 | 6 | 33 | 814 | -20 | 7 | 350 |
| 804 | -14 | 8 | 360 | 815 | -20 | 5 | 348 |
| 805 | -16 | 8 | 11 | 816 | -22 | 6 | 348 |
| 807 | -17 | 5 | 347 | 817 | -20 | 7 | 354 |
| 808 | -17 | 8 | 355 | 818 | -20 | 8 | 41 |
|  | DAY | 20 |  |  | DAY | 21 |  |
| 812 | -38 | 6 | 21 | 815 | -29 | 8 | 46 |
| 812 | -38 | 7 | 36 | 816 | -30 | 8 | 35 |
| 812 | -38 | 7 | 49 | 817 | -29 | 9 | 32 |
| 813 | -36 | 8 | 32 | 818 | -30 | 7 | 49 |
| 813 | -32 | 7 | 23 | 818 | -29 | 6 | 37 |
| 814 | -32 | 9 | 43 | 819 | -29 | 6 | 53 |
| 814 | -29 | 8 | 43 | 819 | -28 | 8 | 53 |
| 815 | -30 | 9 | 46 | 820 | -28 | 7 | 49 |
|  | DAY | 27 |  |  | DAY | 28 |  |
| 809 | -26 | 8 | 340 | 804 | -21 | 7 | 21 |
| 808 | -25 | 6 | 338 | 801 | -23 | 8 | 23 |
| 807 | -24 | 7 | 360 | 798 | -20 | 13 | 33 |
| 805 | -24 | 5 | 1 | 796 | -21 | 17 | 23 |
| 806 | -25 | 5 | 2 | 794 | -21 | 15 | 21 |
| 806 | -24 |  | 357 | 793 | -21 | 13 | 360 |
| 806 | -23 |  | 358 | 793 | -21 | 15 | 12 |
| 805 | -22 |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-26.4$ Std dev $=7.0$ max $=-11.4$ at 450 GMT ON day 12 MIN $=-44.9$ at 1420 GMt ON DAY 18
* THETA (K) * MEAN $=262.27$
* PRESSURE (MB) * MEAN $=808.7$ STD DEV $=7.4$ MAX $=822.9$ AT 1640 GMT ON DAY 25 MIN $=789.1$ AT 420 GMT ON DAY 12
* WINDS (M/S) * MEAN $=7.3$ STD DEV $=2.6$ RESULTANT $=6.6$ FROM 15. CONSTANCY $=0.90$ MAX $=19.9$ FROM 8. AT 1020 GMT DAY 28 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} & 38 & 24 & 18 & 6 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 12\end{array}$

* TEMPERATURE (C) * MEAN $=-30.4$ STD DEV $=7.4$ MAX $=-13.1$ AT 230 GMT ON DAY 6 MIN $=-44.9$ AT 1420 GMT ON DAY 20
* THETA (K) * MEAN $=257.72$
* PRESSURE (MB) * MEAN $=811.1$ STD DEV $=7.7$ MAX $=825.7$ AT 1300 GMT ON DAY 19 MIN $=795.2$ AT 1520 GMT ON DAY 11
$\star$ WINDS (M/S) * MEAN $=8.9 \mathrm{STD}$ DEV $=3.3$ RESULTANT $=7.8$ FROM 35 . CONSTANCY $=0.88$ MAX $=19.5$ FROM 30 . AT 1250 GMT DAY 6
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \% \quad$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

## PP TTVV DD DAY 2

 $\begin{array}{llll}812 & -27 & 6 & 14\end{array}$ $\begin{array}{llll}813 & -30 & 6 & 22\end{array}$ $\begin{array}{llll}814 & -29 & 7 & 4\end{array}$ 814-29 $10 \quad 8$ $\begin{array}{llll}813 & -29 & 9 & 8\end{array}$$\begin{array}{llll}811 & -32 & 12 & 19\end{array}$
807-31 1318
806-27 $14 \quad 7$
805-25 $13 \quad 2$
804-26 $13 \quad 23$
803 - $26 \quad 16 \quad 12$
$\begin{array}{llllllll}802 & -28 & 14 & 19 & 803 & -27 & 15 & 18\end{array}$
$\begin{array}{llllllll}804 & -29 & 12 & 12 & 802 & -27 & 19 & 23\end{array}$
$\begin{array}{llllllll}804 & -32 & 11 & 16 & 800 & -25 & 17 & 28\end{array}$
DAY 9
DAY 10
804-33 $14 \quad 28$

PP TT VV DD
DAY 4

| PP TT VV | DD |
| :---: | :---: | :---: |
| DAY | 5 |


| PP | TT VV | DD |
| :--- | ---: | :--- |
| DAY | 6 |  |

PP TT VV DD DAY 7
799-22 $20 \quad 16$
$\begin{array}{llll}796 & -26 & 11 & 37\end{array}$
$\begin{array}{llll}799 & -38 & 7 & 60\end{array}$
$\begin{array}{llll}791 & -35 & 19 & 71\end{array}$
800 -23 14354
$\begin{array}{llll}796 & -24 & 8 & 52\end{array}$
$\begin{array}{llllllll}799 & -38 & 6 & 68 & 792 & -35 & 18 & 71\end{array}$
$\begin{array}{llllllllllll}797 & -31 & 3 & 331 & 797 & -39 & 9 & 60 & 794 & -35 & 15 & 67\end{array}$
$\begin{array}{lllllll}799 & -23 & 15 & 21 & 799 & -36 & 3\end{array} 11$
$\begin{array}{llllllll}796 & -36 & 10 & 70 & 793 & -34 & 18 & 73\end{array}$
800-35 $\quad 4 \quad 33$
$\begin{array}{lllll}795 & -36 & 11 & 60\end{array}$
797-23 1318

$\begin{array}{lllllllll}799 & -37 & 9 & 54 & 792 & -34 & 16 & 56\end{array}$
$\begin{array}{llllllll}799 & -37 & 8 & 56 & 792 & -33 & 15 & 68\end{array}$ DAY 12

DAY 13
DAY 14

DAY 16

DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

| DAY 22 | DAY 23 | DAY 24 | DAY 25 | DAY 26 | DAY 27 | DAY 28 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

DAY 30
DAY 31

00
03
06
09
12
15
18
21

WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW

|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 1 \end{array}$ | DD | PP | TT DAY | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD | PP | TT <br> DAY | $\begin{array}{r} \text { VV } \\ 3 \end{array}$ | DD |  |  |  | DD |  | $\begin{gathered} \text { TT } \\ \text { OAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $6$ | DD | PP |  | $\begin{array}{r} \text { VV } \\ 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 981 | 2 | 3 | 83 | 969 | 5 | 13 | 55 | 976 | 3 | 6 | 49 | 981 | 2 | 2 | 60 | 978 | 1 | 2 | 55 | 974 | 3 | 1 | 109 | 973 | 4 | 1 | 136 |
| 03 | 982 | 2 | 2 | 121 | 971 | 4 | 9 | 59 | 977 | 2 | 5 | 47 | 981 | -1 | 3 | 56 | 978 | 0 | 1 | 57 | 973 | 0 | 0 | 0 | 974 | 0 | 2 | 59 |
| 06 | 981 | 4 | 3 | 53 | 972 | 3 | 6 | 52 | 977 | 2 | 3 | 47 | 981 | -1 | 2 | 45 | 977 | 0 | 2 | 62 | 972 | -1 | 0 | 0 | 976 | 0 | 2 | 56 |
| 09 | 979 | 3 | 3 | 95 | 974 | 2 | 5 | 46 | 978 | 2 | 2 | 46 | 980 | -1 | 1 | 87 | 977 | 1 | 1 | 59 | 971 | 3 | 5 | 90 | 977 | 1 | 3 | 62 |
| 12 | 977 | 4 | 5 | 81 | 975 | 3 | 4 | 49 | 979 | 1 | 2 | 55 | 980 | 4 | 1 | 53 | 977 | 2 | 1 | 59 | 970 | 3 | 4 | 125 | 977 | 2 | 6 | 56 |
| 15 | 974 | 4 | 7 | 80 | 975 | 4 | 3 | 49 | 979 | 3 | 3 | 223 | 980 | 3 | 1 | 94 | 976 | 3 | 1 | 92 |  |  |  |  | 979 |  |  |  |
| 18 | 972 | 4 | 10 | 71 | 975 | 4 | 5 | 56 | 980 | 2 | 4 | 227 | 979 | 4 | 1 | 70 | 976 | 4 | 1 | 50 | 971 | 3 | 2 | 199 | 979 | 3 | 6 | 50 |
| 21 | 971 | 5 | 7 | 69 | 976 | 4 | 1 | 52 | 981 | 1 | 1 | 157 | 979 | 3 | 2 | 70 | 975 | 4 | 1 | 107 | 972 | 4 | 3 | 190 | 980 | 4 | 4 | 71 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | AY | 10 |  |  | DAY | 11 |  |  | AY | 12 |  |  | DAY | 13 |  |  | AY | 14 |  |
| 00 | 980 | 3 | 2 | 98 | 983 | 3 | 4 | 126 | 986 | 3 | 1 | 85 | 973 | 6 | 5 | 49 | 977 | 5 | 9 | 57 | 981 | 5 | 8 | 57 | 992 | 5 | 5 | 56 |
| 03 | 980 | 2 | 1 | 76 | 984 | 3 | 9 | 56 | 984 | 2 | 2 | 87 | 973 | 5 | 1 | 77 | 978 | 6 | 9 | 57 | 982 | 5 | 9 | 57 | 993 | 4 | 4 | 88 |
| 06 | 980 | 1 | 2 | 66 | 986 | 1 | 4 | 278 | 980 | 3 | 3 | 77 | 973 | 5 | 9 | 55 | 978 | 6 | 6 | 64 | 983 | 5 | 10 | 56 | 992 | 5 | 7 | 78 |
| 09 | 979 | 3 | 1 | 69 | 987 | 1 | 3 | 50 | 976 | 3 | 12 | 71 | 973 | 5 | 8 | 52 | 978 | 3 | 2 | 130 | 984 | 3 | 7 | 64 | 991 | 5 | 6 | 71 |
| 12 | 979 | 3 | 1 | 156 | 988 | 2 | 2 | 46 | 975 | 3 | 8 | 74 | 975 | 5 | 9 | 53 | 977 | 4 | 1 | 101 | 985 | 4 | 5 | 56 | 988 | 6 | 6 | 76 |
| 15 | 980 | 4 | 2 | 69 | 989 | 3 | 4 | 46 | 973 | 4 | 6 | 71 | 976 | 6 | 9 | 60 | 977 | 3 | 1 | 59 | 987 | 4 | 7 | 55 | 984 | 7 | 14 | 63 |
| 18 | 981 | 4 | 7 | 52 | 989 | 3 | 3 | 49 | 971 | 6 | 8 | 66 | 977 | 4 | 6 | 62 | 979 | 4 | 2 | 78 | 989 | 4 | 7 | 56 | 983 | 7 | 7 | 67 |
| 21 | 981 | 3 | 10 | 56 | 988 | 6 | 1 | 147 | 971 | 5 | 10 | 56 | 977 | 6 | 4 | 77 | 980 | 5 | 6 | 47 | 991 | 5 | 9 | 57 | 982 | 5 | 3 | 73 |
|  |  | DAY | 15 |  |  | , | 16 |  |  | Y | 17 |  |  | Dar | 18 |  |  | AY | 19 |  |  | DAY | 20 |  |  | AY | 21 |  |
| 00 | 982 | 4 | 2 | 84 | 989 | 5 | 4 | 76 | 986 | 2 | 4 | 46 | 995 | 0 | 4 | 265 | 1003 | 1 | 1 | 53 | 995 | 2 | 2 | 90 | 986 | 3 | 3 | 53 |
| 03 | 983 | 4 | 2 | 81 | 986 | 4 | 6 | 76 | 988 | 2 | 3 | 46 | 997 | 0 | 2 | 55 | 1003 | -1 | 4 | 59 | 994 | 4 | 4 | 94 | 984 | 4 | 2 | 60 |
| 06 | 984 | 5 | 9 | 56 | 982 | 4 | 11 | 74 | 990 | 1 | 6 | 272 | 999 | 0 | 0 | 0 | 1002 | -1 | 4 | 53 | 994 | 4 | 2 | 55 | 982 | 3 | 2 | 92 |
| 09 | 988 | 4 | 6 | 52 | 980 | 4 | 6 | 84 | 991 | 1 | 3 | 45 | 1000 | -1 | 3 | 45 | 1002 | -1 | 3 | 59 | 994 | 4 | 1 | 136 | 980 | 5 | 3 | 87 |
| 12 | 990 | 4 | 5 | 56 | 979 | 2 | 3 | 50 | 991 | 1 | 3 | 333 | 1001 | 0 | 3 | 43 | 1001 | 1 | 2 | 109 | 993 | 5 | 1 | 329 | 976 | 4 | 4 | 88 |
| 15 |  |  |  |  | 980 | 2 | 3 | 105 | 992 | 2 | 2 | 306 | 1002 | 1 | 3 | 47 | 1000 | 1 | 4 | 8 |  |  |  |  | 971 | 5 | 15 | 67 |
| 18 | 992 | 6 | 4 | 84 | 981 | 1 | 4 | 119 | 992 | 1 | 3 | 43 | 1003 | 2 | 2 | 46 | 998 | 2 | 4 | 76 | 990 | 6 | 1 | 108 | 972 | 4 | 9 | 118 |
| 21 | 991 | 5 | 9 | 57 | 983 | 2 | 6 | 187 | 994 | 1 | 2 | 45 | 1003 | 1 | 2 | 219 | 997 | 3 | 2 | 105 | 988 | 4 | 2 | 57 | 974 | 5 | 3 | 128 |
|  |  | DAY | 22 |  |  | AY | 23 |  |  | Y | 24 |  |  | DAY |  |  |  |  | 26 |  |  |  | 27 |  |  |  |  |  |
| 00 | 980 | 3 | 4 | 60 | 975 | 5 | 11 | 150 | 992 | 4 | 14 | 56 | 984 | 3 | 5 | 47 | 982 | 2 | 0 | 0 | 983 | 3 | 1 | 46 | 985 | 2 | 2 | 346 |
| 03 | 985 | 3 | 5 | 53 | 977 | 5 | 15 | 57 | 992 | 4 | 14 | 53 | 983 | 3 | 11 | 53 | 982 | 1 | 1 | 104 | 982 | 2 | 0 | 0 | 987 | 1 | 1 | 57 |
| 06 | 988 | 3 | 4 | 50 | 983 | 3 | 8 | 56 | 991 | 5 | 13 | 52 | 985 | 2 | 4 | 80 | 982 | 2 | 1 | 64 | 982 | 2 | 2 | 56 | 988 | 1 | 2 | 52 |
| 09 | 991 | 2 | 2 | 98 | 984 | 4 | 9 | 56 | 991 | 5 | 11 | 53 | 985 | 3 | 1 | 95 | 982 | 2 | 2 | 85 | 981 | 1 | 1 | 53 | 990 | 2 | 1 | 246 |
| 12 | 991 | 5 | 3 | 125 | 986 | 4 | 8 | 52 | 990 | 7 | 9 | 55 | 985 | 3 | 3 | 104 | 982 | 2 | 2 | 85 | 980 | 2 | 2 | 45 | 992 | 2 | 2 | 47 |
| 15 | 990 | 5 | 3 | 94 | 989 | 4 | 8 | 52 |  |  |  |  |  |  |  |  | 982 | 3 | 3 | 83 | 981 | 2 | 1 | 52 | 993 | 2 | 3 | 312 |
| 18 | 987 | 4 | 3 | 53 | 990 | 5 | 9 | 50 | 988 | 3 | 2 | 87 | 983 | 4 | 1 | 111 | 982 | 4 | 1 | 85 | 981 | 2 | 4 | 47 | 994 | 2 | 3 | 270 |
| 21 | 979 | 6 | 11 | 149 | 992 | 5 | 11 | 52 | 985 | 4 | 4 | 90 | 982 | 3 | 1 | 157 | 983 | 4 | 1 | 45 | 983 | 2 | 1 | 275 | 996 | 2 | 1 | 60 |
|  |  | DAY | 29 |  |  | AY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 997 | 1 | 2 | 8 | 999 | 2 | 1 | 67 | 997 | 1 | 1 | 64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 998 | 1 | 3 | 55 | 999 | 0 | 1 | 66 | 997 | 1 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 998 | 1 | 3 | 59 | 998 | -1 | 1 | 63 | 996 | 1 | 1 | 62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 999 | 1 | 2 | 81 | 998 | 1 | 1 | 81 | 997 | 2 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 999 | 1 | 3 | 87 | 997 | 3 | 0 | 0 | 997 | 2 | 1 | 62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 999 | 2 | 3 | 85 | 997 | 4 | 1 | 185 | 997 | 2 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 1000 | 4 | 2 | 84 | 997 | 3 | 3 | 184 | 998 | 3 | 1 | 62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 1000 | 3 | 2 | 64 | 997 | 4 | 1 | 114 | 998 | 1 | 3 | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=2.8$ STD DEV $=1.7$ MAX $=10.2$ AT 2210 GMT ON DAY 22 MIN $=-1.4$ AT 720 GMT ON DAY 19
* THETA (K) * MEAN $=277.20$
* PRESSURE (MB) * MEAN $=984.7$ STD DEV $=8.6$ MAX $=1003.2$ AT 2040 GMT ON DAY 18 MIN $=968.9$ AT 2330 GMT ON DAY 1
* WINDS (M/S) * MEAN $=4.0$ STD DEV $=3.3$ RESULTANT $=3.3$ FROM 65. CONSTANCY $=0.84$ MAX $=17.0$ FROM 60. AT 250 GMT DAY 23 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.4 \%$ PRESSURE: $2.0 \%$ WINDS: $2.4 \%$
 PERCENT: WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 1 & 0 & 36 & 28 & 16 & 6 & 3 & 3 & 2 & 0 & 1 & 0 & 2 & 0 & 1 & 1\end{array}$

* TEMPERATURE (C) * MEAN $=1.8$ STD DEV $=1.8$ MAX $=8.4$ AT 2340 GMT ON DAY 12 MIN $=-1.9$ AT 550 GMT ON DAY 19
* THETA (K) * MEAN $=275.70$
* PRESSURE (MB) * MEAN $=990.6$ STD DEV $=8.9$ MAX $=1007.1$ AT 1420 GMT ON DAY 2 MIN $=968.9$ AT 630 GMT ON DAY 7
* WINDS (M/S) * MEAN $=3.5$ STD DEV $=2.7$ RESULTANT $=2.0$ FROM 70. CONSTANCY $=0.57$ MAX $=19.3$ FROM 52. AT 2320 GMT DAY 28 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.0 \%$ PRESSURE: $4.0 \%$ WINDS: $4.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-1212-14 \quad 14-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW
$\begin{array}{llllllllllllllll}\text { PERCENT } & 1 & 0 & 26 & 23 & 17 & 10 & 5 & 2 & 3 & 2 & 1 & 3 & 1 & 3 & 2\end{array}$

| HR | PP | TT | $\begin{array}{r} V \\ 1 \end{array}$ |  | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { vV } \\ 2 \end{array}$ | DD | PP | DT |  | DD | PP |  |  | DD | PP |  |  | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { vv } \\ 6 \end{array}$ | DD | PP | $\begin{gathered} \mathrm{TT} \\ \text { DAY } \end{gathered}$ | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 980 | 7 | 18 | 82 | 983 | 3 | 7 | 50 | 991 | 2 | 2 | 62 | 981 | 2 | 3 | 76 | 994 | 4 | 2 | 52 | 997 | 2 | 2 | 66 | 1000 | 1 | 2 | 60 |
| 03 | 976 | 7 | 15 | 55 | 982 | 2 | 3 | 36 | 992 | 2 | 1 | 56 | 980 | 0 | 2 | 152 | 995 | 4 | 9 | 62 | 998 | 1 | 1 | 63 | 999 | 1 | 3 | 66 |
| 06 | 973 | 4 | 4 | 4123 | 981 | 2 | 1 | 101 | 992 | 1 | 0 | 0 | 979 | 4 | 9 | 63 | 996 | 2 | 2 | 107 | 997 | 1 | 1 | 66 | 997 | 1 | 3 | 67 |
| 09 | 969 | 5 | 4 | 483 | 981 | 1 | 2 | 91 | 992 | 0 | 1 | 81 | 980 | 4 | 10 | 47 | 995 | 4 | 2 | 102 | 997 | 1 | 4 | 136 | 996 | 2 | 6 | 66 |
| 12 | 972 | 2 | 11 | 145 | 982 | 1 | 0 | 0 | 990 | 1 | 1 | 91 | 984 | 3 | 11 | 50 | 995 | 3 | 1 | 83 | 998 | 0 | 3 | 197 | 994 | 3 | 9 | 62 |
| 15 | 979 | 2 | 12 | 46 |  |  |  |  |  |  |  |  | 988 | 3 | 8 | 50 | 995 | 3 | 3 | 52 | 998 | 1 | 7 | 244 | 993 | 3 | 8 | 55 |
| 18 | 983 | 2 | 10 | - 47 | 986 | 2 | 2 | 177 | 985 | 3 | 5 | 123 | 990 | 4 | 7 | 55 | 996 | 3 | 1 | 140 | 999 | 2 | 4 | 336 | 991 | 3 | 9 | 53 |
| 21 | 984 | 3 | 9 | 47 | 989 | 3 | 2 | 8 | 983 | 3 | 6 | 122 | 992 | 4 | 8 | 55 | 997 | 2 | 1 | 57 | 999 | 1 | 3 | 348 | 989 | 3 | 9 | 59 |
|  |  | DAY | 8 | 3 |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 988 | 2 | 2 | 23 | 994 | 1 | 9 | 295 | 984 | 1 | 11 | 50 | 979 | 0 | 10 | 8 | 978 | -1 | 11 | 8 | 993 | -1 | 7 | 64 | 994 | 1 | 6 | 8 |
| 03 | 987 | 2 | 1 | 102 | 996 | 1 | 8 | 250 | 979 | 3 | 9 | 52 | 979 | 0 | 4 | 64 | 979 | -1 | 7 | 332 | 991 | 0 | 1 | 8 | 995 | 0 | 8 | 348 |
| 06 | 985 | 2 | 2 | 84 | 998 | 1 | 7 | 319 | 976 | 2 | 6 | 52 | 977 | -1 | 10 | 346 | 979 | -1 | 3 | 305 | 985 | -1 | 3 | 90 | 995 | 1 | 5 | 8 |
| 09 | 984 | 1 | 1 | 73 | 999 | 1 | 6 | 5 | 975 | 2 | 8 | 47 | 974 | -1 | 7 | 8 | 981 | -1 | 4 | 8 | 982 | 0 | 8 | 94 | 997 | 1 | 6 | 5 |
| 12 | 984 | 1 | 1 | 80 | 998 | 1 | 4 | 63 | 977 | 1 | 9 | 8 | 975 | -1 | 9 | 292 | 985 | -1 | 6 | 299 | 984 | 1 | 6 | 78 | 998 | 1 | 9 | 8 |
| 15 | 985 | 2 | 1 | 160 | 995 | 2 | 7 | 64 | 978 | 2 | 14 | 40 |  |  |  |  |  |  |  |  | 986 | 0 | 4 | 8 | 999 | 1 | 8 | 8 |
| 18 | 988 | 1 | 10 | 289 | 993 | 2 | 5 | 56 | 977 | 0 | 12 | 47 | 977 | -1 | 13 | 8 | 991 | 0 | 7 | 8 | 988 | 1 | 3 | 63 | 1000 | 1 | 8 | 8 |
| 21 | 991 | 1 | 6 | 280 | 990 | 1 | 8 | 52 | 978 | 1 | 10 | 63 | 977 | -1 | 13 | 8 | 993 | 0 | 5 | 55 | 991 | 1 | 2 | 71 | 1001 | 1 | 9 | 8 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | AY | 20 |  |  | DAY | 21 |  |
| 00 | 1004 | 1 | 8 | 8 | 1014 | 1 | 2 | 62 | 1002 | 2 | 3 | 92 | 990 | 0 | 1 | 92 | 994 | 0 | 4 | 50 | 978 | 2 | 6 | 62 | 977 | 2 | 7 | 56 |
| 03 | 1006 | 0 | 9 | 8 | 1012 | 1 | 2 | 73 | 1001 | 2 | 9 | 52 | 988 | -1 | 1 | 55 | 993 | 1 | 4 | 53 | 976 | 2 | 8 | 52 | 975 | 2 | 9 | 55 |
| 06 | 1007 | 0 | 12 | -8 | 1011 | 1 | 3 | 128 | 1000 | 2 | 6 | 57 | 989 | 0 | 3 | 50 | 992 | 0 | 3 | 60 | 976 | 1 | 7 | 50 | 974 | 2 | 9 | 49 |
| 09 | 1009 | 0 | 6 | 8 | 1009 | 0 | 4 | 145 | 1000 | 2 | 5 | 56 | 990 | 0 | 5 | 257 | 990 | 1 | 6 | 55 | 978 | 1 | 6 | 47 | 976 | -1 | 3 | 339 |
| 12 | 1011 | 0 | 4 | 298 |  |  |  |  | 1000 | 1 | 4 | 56 | 992 | 0 | 2 | 45 | 988 | 1 | 6 | 57 | 979 | 1 | 6 | 55 | 977 | -1 | 4 | 49 |
| 15 |  |  |  |  | 1001 | 3 | 13 | 70 | 999 | 1 | 3 | 55 | 993 | 0 | 1 | 53 | 984 | 2 | 8 | 57 |  |  |  |  |  |  |  |  |
| 18 | 1013 | 1 | 3 | 66 | 1001 | 3 | 6 | 64 | 996 | 1 | 2 | 56 | 993 | 0 | 4 | 53 | 979 | 1 | 14 | 55 | 979 | 1 | 6 | 53 | 979 | -1 | 6 | 47 |
| 21 | 1014 | 1 | 2 | 74 | 1002 | 1 | 3 | 45 | 994 | 0 | 3 | 91 | 994 | 1 | 4 | 53 | 979 | 3 | 8 | 49 | 978 | 1 | 10 | 50 | 980 | -1 | 5 | 49 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | AY | 27 |  |  | DAY | 28 |  |
| 00 | 981 | -2 | 6 | 52 | 979 | -1 | 10 | 8 | 987 | -3 | 7 | 301 | 1002 | -2 | 2 | 188 | 1004 | -1 | 2 | 59 | 994 | 1 | 4 | 129 | 972 | 5 | 4 | 77 |
| 03 | 980 | -2 | 4 | 56 | 979 | -2 | 5 | 5 | 990 | -3 | 5 | 247 | 1002 | -2 | 3 | 42 | 1004 | -1 | 3 | 60 | 991 | 2 | 2 | 53 | 972 | 1 | 0 | 0 |
| 06 | 979 | -3 | 7 | 56 | 979 | -3 | 2 | 47 | 992 | -3 | 6 | 267 | 1003 | -2 | 3 | 43 | 1004 | -1 | 0 | 0 | 986 | 3 | 4 | 104 | 973 | 2 | 3 | 101 |
| 09 | 975 | -2 | 12 | 53 | 979 | -3 | 2 | 52 | 995 | -3 | 5 | 353 | 1003 | -2 | 2 | 64 | 1004 | -1 | 2 | 92 | 981 | 4 | 8 | 236 | 974 | 3 | 4 | 56 |
| 12 | 974 | -1 | 6 | 46 | 979 | -4 | 3 | 53 | 997 | -3 | 3 | 157 | 1003 | -2 | 1 | 60 | 1003 | 0 | 7 | 60 | 977 | 6 | 9 | 63 | 973 | 3 | 5 | 81 |
| 15 | 974 | -1 | 9 | 247 | 979 | -3 | 7 | 43 | 999 | -2 | 2 | 184 | 1003 | -1 | 2 | 57 | 1002 | 0 | 1 | 98 | 976 | 5 | 14 | 62 | 971 | 2 | 4 | 47 |
| 18 | 975 | -1 | 9 | 280 | 982 | -2 | 5 | 205 | 1000 | -2 | 3 | 145 | 1004 | 0 | 2 | 59 |  |  |  |  | 976 | 4 | 12 | 56 | 969 | 2 | 2 | 53 |
| 21 | 977 | -2 | 7 | 355 | 985 | -2 | 9 | 242 | 1001 | -2 | 2 | 137 | 1004 | 0 | 0 | 0 | 997 | 0 | 5 | 109 | 973 | 4 | 14 | 56 | 966 | 2 | 0 | 0 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 965 | 3 | 3 | 105 | 981 | 0 | 1 | 55 | 989 | 0 | 5 | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 965 | 4 | 1 | 126 | 983 | 0 | 3 | 46 | 988 | 0 | 6 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 966 | 3 | 8 | 102 | 985 | 0 | 2 | 46 | 987 | -1 | 2 | 67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 968 | 2 | 4 | 137 | 986 | -1 | 6 | 8 | 983 | 0 | 7 | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 970 | 2 | 6 | 204 | 987 | -1 | 5 | 298 | 983 | -1 | 4 | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 974 | 2 | 2 | 171 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 975 | 2 | 1 | 43 | 988 | 0 | 5 | 43 | 984 |  | 12 | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 977 | 1 | 2 | 60 | 989 | -1 |  | 303 | 986 | 0 | 9 | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=0.8$ std dev $=1.8$ max $=7.6$ at 210 gmt on day 1 min $=-4.1$ at 1250 gmt on day 23
* theta (K) * mean $=274.95$
* PRESSURE (MB) * MEAN $=987.9$ STD DEV $=10.7$ MAX $=1014.0$ at 2230 GMT ON DAY 15 MIN $=964.5$ AT 10 GMT ON DAY 29
* WINDS (M/S) * MEAN $=5.3$ STD DEV $=3.5$ RESULTANT $=3.6$ FROM 43. CONSTANCY $=0.68$ MAX $=19.3$ FROM 56. AT 2300 GMT DAY 11
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.4 \%$ PRESSURE: $4.4 \%$ WINDS: $4.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 $16-18$ 18-20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ $\left.\begin{array}{llllllllllllllllll}\text { PERCENT: } & 23 & 21 & 18 & 14 & 15 & & 5 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}\right)$
PERCENT

$$
\begin{array}{llllllllllllllll}
12 & 0 & 36 & 20 & 8 & 4 & 4 & 1 & 2 & 1 & 0 & 3 & 1 & 3 & 1 & 3
\end{array}
$$

| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { vv } \\ 2 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 3 \end{array}$ | DD | PP |  |  | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 5 \end{array}$ | DD |  |  | $\begin{array}{r} \text { VV } \\ 6 \end{array}$ | DD | PP |  | VV 7 | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 988 | 0 | 7 | 42 | 1000 | -2 | 2 | 60 | 1004 | -1 | 1 | 206 | 1013 | -1 | 0 | 0 | 1009 | 2 | 0 | 0 | 1001 | 1 | 1 | 137 | 987 | 3 | 14 | 59 |
| 03 | 990 | -1 | 8 | 347 | 1000 | -1 | 4 | 59 | 1005 | -1 | 3 | 76 | 1013 | -1 | 3 | 181 | 1007 | 2 | 8 | 107 | 1001 | 1 | 1 | 299 | 989 | 3 | 11 | 57 |
| 06 | 992 | -1 | 7 | 43 | 998 | 0 | 11 | 53 | 1007 | 0 | 4 | 8 | 1013 | -1 | 1 | 146 | 1007 | 2 | 2 | 107 | 1001 | 1 | 1 | 123 | 989 | 3 | 10 | 55 |
| 09 | 994 | -1 | 8 | 247 | 997 | 1 | 12 | 53 | 1008 | -1 | 1 | 59 | 1013 | 0 | 1 | 181 | 1005 | 0 | 3 | 152 | 999 | 6 | 9 | 85 | 986 | 3 | 10 | 53 |
| 12 | 996 | -2 | 9 | 282 | 999 | -1 | 5 | 88 | 1009 | -1 | 2 | 78 | 1012 | -1 | 0 | 0 | 1004 | 1 | 2 | 211 | 997 | 4 | 7 | 135 | 985 | 3 | 5 | 64 |
| 15 | 998 | -1 | 4 | 8 | 1000 | -1 | 3 | 88 | 1010 | 2 | 0 | 0 | 1012 | 0 | 1 | 94 | 1002 | 2 | 2 | 161 | 993 | 5 | 14 | 76 |  |  |  |  |
| 18 | 999 | -1 | 2 | 43 | 1000 | 1 | 7 | 92 | 1011 | 2 | 2 | 77 | 1011 | 1 | 2 | 218 | 1001 | 2 | 2 | 166 | 990 | 6 | 15 | 76 | 985 | 2 | 8 | 62 |
| 21 | 1000 | -1 | 1 | 52 | 1001 | 1 | 9 | 84 | 1012 | 1 | 1 | 225 | 1011 | 1 | 1 | 118 | 1001 | 2 | 5 | 132 | 989 | 4 | 8 | 73 | 986 | 2 | 7 | 55 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 988 | 1 | 7 | 57 | 968 | 2 | 1 | 109 | 972 | -2 | 6 | 205 | 982 | -3 | 1 | 64 | 983 | -1 | 4 | 56 | 974 | -2 | 1 | 64 | 978 | 0 | 4 | 90 |
| 03 | 988 | 1 | 6 | 57 | 967 | 1 | 3 | 143 | 973 | -1 | 5 | 202 | 982 | -2 | 3 | 56 | 982 | -1 | 4 | 49 | 974 | -3 | 3 | 67 | 977 | 2 | 12 | 60 |
| 06 | 987 | 1 | 3 | 98 | 967 | 0 | 4 | 60 | 975 | -1 | 6 | 8 | 982 | -2 | 3 | 60 | 981 | -1 | 4 | 56 | 973 | -3 | 0 | 0 | 976 | 2 | 14 | 57 |
| 09 | 983 | 0 | 0 | 0 | 967 | 0 | 0 | 0 | 976 | -2 | 5 | 206 | 983 | -1 | 9 | 334 | 980 | -2 | 3 | 57 | 973 | -4 | 2 | 66 | 975 | 1 | 15 | 53 |
| 12 | 978 | 1 | 6 | 71 | 968 | -1 | 0 | 0 | 978 | -1 | 4 | 209 | 984 | -1 | 7 | 32 | 979 | -2 | 2 | 55 | 974 | -4 | 2 | 62 | 974 | 2 | 16 | 56 |
| 15 |  |  |  |  |  |  |  |  | 979 | -1 | 5 | 199 | 985 | -1 | 2 | 47 | 978 | -1 | 0 | 0 | 976 | -1 | 0 | 0 | 976 | 2 | 3 | 69 |
| 18 | 971 | 6 | 8 | 60 | 970 | -2 | 6 | 227 | 979 | -1 | 1 | 197 | 984 | -1 | 6 | 55 | 977 | -1 | 1 | 74 | 977 | -1 | 3 | 111 | 975 | 2 | 6 | 73 |
| 21 | 967 | 7 | 12 | 69 | 971 | -2 | 6 | 185 | 981 | -2 | 1 | 122 | 983 | -1 | 5 | 52 | 976 | -2 | 2 | 46 | 976 | 1 | 9 | 67 | 973 | 2 | 14 | 59 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 973 | 2 | 8 | 71 | 969 | -1 | 1 | 175 | 969 | -2 | 0 | 0 | 969 | -1 | 1 | 62 | 971 | -3 | 2 | 64 | 973 | -2 | 2 | 49 | 971 | -2 | 6 | 205 |
| 03 | 971 | 1 | 7 | 80 | 969 | -1 | 1 | 59 | 969 | 0 | 3 | 55 | 969 | -1 | 0 | 0 | 971 | -2 | 2 | 63 | 972 | -1 | 5 | 246 | 973 | -2 | 5 | 306 |
| 06 | 970 | 1 | 1 | 81 | 969 | -1 | 0 | 0 | 969 | -1 | 1 | 49 | 969 | -1 | 6 | 67 | 971 | -3 | 1 | 67 | 971 | -1 | 7 | 277 | 975 | -2 | 7 | 287 |
| 09 | 969 | -1 | 1 | 69 | 970 | -1 | 2 | 77 | 968 | -1 | 3 | 53 | 969 | -2 | 1 | 50 | 971 | -1 | 4 | 83 | 969 | -2 | 4 | 261 | 977 | -2 | 5 | 188 |
| 12 | 969 | -1 | 1 | 57 | 970 | -1 | 3 | 102 | 968 | 0 | 3 | 50 | 970 | -2 | 2 | 55 | 972 | -1 | 5 | 81 | 969 | -2 | 3 | 202 | 979 | -2 | 3 | 161 |
| 15 | 969 | 0 | 2 | 52 | 970 | 0 | 1 | 95 |  |  |  |  |  |  |  |  | 973 | -1 | 1 | 8 | 968 | -2 | 2 | 175 | 981 | -3 | 2 | 60 |
| 18 | 969 | 1 | 1 | 91 | 970 | 0 | 1 | 71 | 968 | 0 | 0 | 0 | 970 | -2 | 2 | 81 | 973 | -1 | 3 | 55 | 968 | -3 | 3 | 50 | 982 | -3 | 3 | 59 |
| 21 | 969 | -1 | 1 | 69 | 969 | -1 | 2 | 60 | 969 | -1 | 4 | 129 | 970 | -2 | 1 | 64 | 973 | -2 | 3. | 56 | 970 | -2 | 3 | 98 | 983 | -5 | 1 | 57 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 985 | -4 | 3 | 56 | 977 | -3 | 1 | 50 | 983 | -2 | 1 | 76 | 984 | -1 | 3 | 137 | 993 | -3 | 2 | 67 | 999 | -3 | 3 | 64 | 992 | -3 | 4 | 59 |
| 03 | 986 | -4 | 1 | 49 | 977 | -3 | 1 | 53 | 985 | -1 | 4 | 53 | 982 | 1 | 15 | 62 | 994 | -2 | 7 | 50 | 998 | -4 | 3 | 70 | 990 | -3 | 6 | 53 |
| 06 | 986 | -5 | 2 | 67 | 976 | -3 | 2 | 47 | 986 | 0 | 4 | 56 | 985 | 0 | 8 | 71 | 995 | -1 | 9 | 46 | 998 | -3 | 2 | 107 | 989 | -2 | 4 | 40 |
| 09 | 986 | -4 | 2 | 63 | 977 | -2 | 2 | 47 | 986 | -1 | 7 | 57 | 985 | -1 | 4 | 81 | 997 | -2 | 2 | 211 | 997 | -3 | 2 | 76 | 987 | -3 | 4 | 47 |
| 12 | 984 | -5 | 5 | 56 | 978 | -2 | 1 | 63 | 987 | -1 | 4 | 59 | 985 | -1 | 4 | 73 | 998 | -2 | 5 | 296 | 996 | -4 | 0 | 0 | 984 | -3 | 6 | 52 |
| 15 | 982 | -3 | 2 | 249 | 979 | -1 | 1 | 45 | 987 | 1 | 1 | 91 | 986 | -1 | 2 | 91 |  |  |  |  |  |  |  |  | 977 | -2 | 10 | 47 |
| 18 | 978 | -3 | 5 | 54 | 980 | -2 | 2 | 81 | 986 | -1 | 3 | 125 | 987 | -2 | 2 | 55 | 1000 | -2 | 1 | 140 | 995 | -3 | 3 | 57 | 975 | -2 | 9 | 42 |
| 21 | 978 | -3 | 2 | 20 | 981 | -2 | 2 | 81 | 984 | -1 | 5 | 92 | 990 | -2 | 4 | 83 | 1000 | -4 | 2 | 83 | 993 | -4 | 2 | 59 | 974 | -3 | 9 | 128 |
|  |  | DAY | 29 |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 974 | -4 | 9 | 40 | 985 | -6 | 1 | 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 976 | -5 | 9 | 256 | 986 | -5 | 5 | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 977 | -4 | 12 | - 8 | 987 | -6 | 7 | 177 |  |  |  |  |  |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -6 | 10 | 260 | 989 | -5 | 7 | 171 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 982 | -6 | 7 | 7272 | 991 | -6 | 4 | 190 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 983 | -5 | 7 | 72 | 992 | -5 | 2 | 125 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 984 | -6 | 4 | 4350 | 992 | -6 | 3 | 85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 984 | -5 | 3 | 3205 | 992 | -6 | 4 | 76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-1.1$ STD DEV $=2.2$ MAX $=7.2$ AT 2110 GMT ON DAY 8 MIN $=-6.5$ AT 1100 GMT ON DAY 29
* THETA (K) * MEAN $=273.38$
* PRESSURE (MB) * MEAN $=983.8$ STD DEV $=12.5$ MAX $=1013.4$ AT 20 GMT ON DAY 4 MIN $=966.1$ AT 2110 GMT ON DAY 8
* WINDS (M/S) * MEAN $=4.1$ STD DEV $=3.4$ RESULTANT $=2.5$ FROM 66. CONSTANCY $=0.61$ MAX $=21.1$ FROM 56. AT 1050 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.9 \%$ PRESSURE: $2.9 \% \quad$ WINDS: $2.9 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$
 WIND DIRECTION: $N$ NNE NE ENE $\quad$ E $\quad$ ESE $\quad$ SE $\quad$ SSE $S$ SSW $\quad$ SW $\quad$ WSW $W$ WNW NW NNW
PERCENT

PP TT VV DD PP TT VV

| PP | IT W | DD |
| :--- | :--- | :--- |
| DAY | 4 |  |


| 987 | -2 | 6 | 98 |
| ---: | ---: | ---: | ---: |
| 985 | -2 | 7 | 143 |
| 983 | -2 | 9 | 118 |

$\begin{array}{rrrr}983 & -2 & 9 & 118 \\ 980 & 0 & 9 & 107\end{array}$ $\begin{array}{llll}977 & -1 & 14112\end{array}$ $974 \quad 0 \quad 11163$
$973 \quad 1 \quad 7122$
$\begin{array}{llll}975 & -1 & 3 & 45\end{array}$

| DAY |  |  |  | 9 |
| :--- | :--- | :--- | :---: | :---: |
| 996 | -2 | 5 |  |  |
| 142 |  |  |  |  |

$\begin{array}{llll}998 & -2 & 4 & 177\end{array}$
$\begin{array}{llll}999 & -2 & 3 & 32 \\ 999 & -3 & 4 & 59\end{array}$
$\begin{array}{llll}999 & -3 & 4 & 59 \\ 999 & -4 & 4 & 62\end{array}$
$\begin{array}{llll}996 & -2 & 5 & 83\end{array}$
$\begin{array}{llrr}995 & 1 & 5 & 87\end{array}$
DAY 16
$\begin{array}{llll}986 & -3 & 8 & 119\end{array}$
$\begin{array}{llll}987 & -3 & 5 & 126\end{array}$
$\begin{array}{llll}990 & -3 & 7 & 149\end{array}$
$\begin{array}{llll}992 & -3 & 6 & 180\end{array}$
$\begin{array}{llll}996 & -3 & 5 & 184\end{array}$
$\begin{array}{llll}1000 & -5 & 3 & 62\end{array}$
$\begin{array}{lll}1001 & -6 \quad 2 \quad 62\end{array}$
DAY 23
$\begin{array}{lll}1004 & -2 & 4204\end{array}$
$\begin{array}{llll}1006 & -2 & 7 & 168\end{array}$
$\begin{array}{llll}1007 & -2 & 3 & 171\end{array}$
$\begin{array}{llll}1009 & -2 & 5 & 171\end{array}$
$\begin{array}{lllll}1010 & -3 & 5 & 121\end{array}$
$\begin{array}{llll}1011 & -3 & 5 & 142\end{array}$
$\begin{array}{llll}1012 & -3 & 5 & 140 \\ & \text { DAY } & 30\end{array}$
$1006-2$
$\begin{array}{ll}1006 & -3\end{array}$
$\begin{array}{ll}1006 & -4 \\ 1005 & -4\end{array}$
$\begin{array}{ll}1005 & -4 \\ 1004 & -4\end{array}$
$\begin{array}{ll}1004 & -4 \\ 1004 & -4\end{array}$
$\begin{array}{ll}1004 & -4\end{array}$
$\qquad$
MONTHLY SUMMARY

* temperature ( C ) * mean $=-2.1$ Std dev $=2.3 \mathrm{max}=6.1$ at 1510 GMt on day 11 min $=-7.0$ at 130 GMt on day 1
* theta (K) * mean $=271.27$
* PRESSURE (MB) * MEAN $=997.4$ STD DEV $=10.9$ MAX $=1020.1$ AT 440 GMT ON DAY 26 MIN $=972.1$ AT 1700 GMT ON DAY 2
* WINDS (M/S) * MEAN $=5.0$ STD DEV $=3.8$ RESULTANT $=3.3$ FROM 74. CONSTANCY $=0.65$ MAX $=26.3$ FROM 59. AT 2330 GMT DAY 11
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.0 \%$ PRESSURE: $4.0 \%$ WINDS: $10.5 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 4 & 1 & 32 & 20 & 9 & 7 & 8 & 6 & 6 & 1 & 0 & 1 & 1 & 0 & 0 & 1\end{array}$
$\begin{array}{llll}\text { HR } & \text { PP TT WV DD } \\ & \text { DAY } & 1\end{array}$
001002 -2
031002 -2
$061002-4$
$091002-4$
121001 -4
15
18 1002-2
211002 -1

00
03
0
0
$\begin{array}{llll}1008 & -6 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 1009 & -6 & 0 & 0 \\ 09 & 1009 & -5 & 0 & 0\end{array}$
$\begin{array}{lllllllll}12 & 1008 & -4 & 0 & 0 & 1004 & -4 & 1 & 67\end{array}$
$\begin{array}{lllllllll}15 & 1007 & -3 & 0 & 0 & 1004 & -4 & 2 & 57\end{array}$
$\begin{array}{lllllllll}18 & 1006 & -3 & 0 & 0 & 1003 & -3 & 2 & 71\end{array}$
$\begin{array}{llrrr}21 & 1005 & -3 & 0 & 0 \\ & \text { DAY } & 15 & \\ 00 & 1021 & -1 & 5 & 10\end{array}$
031020 - 2
$061020-1$
091018 -2
121017 -1
15
$\begin{array}{llll}18 & 1013 & -2 & 2197\end{array}$
$\begin{array}{lllll}21 & 1010 & -3 & 0 & 0\end{array}$
DAY 22
$\begin{array}{lllll}00 & 986 & -4 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 987 & -5 & 4 & 83\end{array}$
$\begin{array}{lllll}06 & 989 & -6 & 3 & 83\end{array}$
$\begin{array}{lllll}09 & 990 & -7 & 3 & 71\end{array}$
$\begin{array}{lllll}12 & 992 & -7 & 1 & 64\end{array}$
$\begin{array}{lllll}15 & 993 & -6 & 2 & 94\end{array}$
$\begin{array}{lllll}18 & 993 & -7 & 1 & 78\end{array}$
$\begin{array}{lllll}21 & 994 & -7 & 1 & 97\end{array}$ DAY 29
$001002-4 \quad 7163$
$031001-311166$
$061000-3 \quad 9212$
$091000-3 \quad 9226$
$121000-300$
15
$\begin{array}{lllll}18 & 998 & -3 & 2 & 188\end{array}$
$\begin{array}{lllll}21 & 998 & -4 & 3 & 173\end{array}$

| 1007 | -4 | 0 | 0 |
| :--- | :--- | :--- | :--- |


| 1005 | -3 | 0 | 0 |
| :--- | :--- | :--- | :--- | $\begin{array}{llll}1003 & -2 & 0 & 0\end{array}$ $\begin{array}{llll}1001 & -2 & 1 & 1\end{array}$ $\begin{array}{llll}1000 & -3 & 0 & 0\end{array}$

$\begin{array}{llll}999 & -3 & 0 & 0\end{array}$ $\begin{array}{llll}998 & -3 & 0 & 0\end{array}$ DAY 23
$\begin{array}{llll}995 & -7 & 1 & 77\end{array}$
$\begin{array}{llll}996 & -7 & 1 & 84\end{array}$
$\begin{array}{llll}997 & -8 & 1 & 114\end{array}$
$\begin{array}{llll}998 & -8 & 1 & 76\end{array}$
$\begin{array}{llll}1000 & -7 & 3 & 8\end{array}$

$$
\text { DAY } 30
$$

$\begin{array}{llll}998 & -4 & 3 & 294\end{array}$
$\begin{array}{llll}997 & -4 & 3 & 164\end{array}$
$\begin{array}{llll}997 & -4 & 2 & 95\end{array}$
$\begin{array}{llll}997 & -5 & 1 & 8\end{array}$
$\begin{array}{llll}997 & -5 & 5 & 192\end{array}$
$\begin{array}{llll}996 & -6 & 7128\end{array}$
$\begin{array}{llll}997 & -7 & 4 & 118\end{array}$

PP TT VV DD PP TT VV DD DAY 2

| 1003 | 0 | 0 | 0 |
| ---: | ---: | ---: | ---: |
| 1004 | 1 | 0 | 0 |
| 1004 | 6 | 7 | 69 |
| 1003 | 6 | 14 | 55 |
| 1005 | 6 | 9 | 101 |
|  |  |  |  |
| 1003 | 4 | 6 | 115 |
| 1000 | 5 | 2 | 163 |
|  | DAY | 9 |  |
| 1004 | -3 | 2 | 317 |
| 1003 | -3 | 3 | 40 |
| 1004 | -3 | 3 | 160 |
| 1004 | -4 | 2 | 152 |
| 1004 | -4 | 1 | 67 |
| 1004 | -4 | 2 | 57 |
| 1003 | -3 | 2 | 71 |
| 1002 | -3 | 3 | 43 |

$998 \quad 5 \quad 9160$
$995 \quad 410178$
$996 \quad 3 \quad 9166$
$997 \quad 4 \quad 5 \quad 77$
$\begin{array}{llll}997 & 3 & 3 & 64\end{array}$
$997 \quad 2 \quad 3 \quad 71$
$997 \quad 5 \quad 3 \quad 95$
$996 \quad 4 \quad 1101$ DAY 10
$\begin{array}{llll}1001 & -3 & 1 & 59\end{array}$
$\begin{array}{llll}1000 & -2 & 6 & 42\end{array}$
$\begin{array}{llll}999 & -1 & 2 & 59\end{array}$
$\begin{array}{llll}998 & -2 & 6 & 272\end{array}$
$\begin{array}{llll}998 & -3 & 12 & 258\end{array}$
$\begin{array}{rrrr}997 & -3 & 11 & 53 \\ 1002 & -3 & 9 & 19\end{array}$
$\begin{array}{llllllll}1001 & -8 & 3 & 8 & 1000 & -11 & 4 & 116\end{array}$
$\begin{array}{llllllll}1001 & -8 & 4 & 56 & 1000 & -9 & 4 & 115\end{array}$
$\begin{array}{llllllll}1002 & -9 & 5 & 306 & 1002 & -10 & 3 & 105\end{array}$

PP TT VV DD

## DAY 17

998 -2 0
$\begin{array}{llll}996 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}995 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}993 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}990 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}989 & -1 & 0 & 0\end{array}$
$987 \quad 0 \quad 5 \quad 63$
$\begin{array}{llll}988 & -2 & 5 & 8\end{array}$

## DAY 24

$\begin{array}{llll}1001 & -9 & 4 & 47\end{array}$
1000-10 3109
999-11 3154
999-10 294
999-10 $3 \quad 92$
1000-11 4116
$\begin{array}{rrrr}1000 & -9 & 4 & 115 \\ 1002 & -10 & 3 & 105\end{array}$
$\begin{array}{lrlll} & \text { DAY } & 4 \\ & 395 & 4 & 139\end{array}$
$\begin{array}{llll}994 & 1 & 4 & 95\end{array}$
$994 \quad 1453$
$\begin{array}{llll}995 & 3 & 9 & 67\end{array}$
$997 \quad 3 \quad 10 \quad 67$
$997 \quad 31469$
$997 \quad 310111$
$1000 \quad 211 \quad 12$
DAY 11
$\begin{array}{llll}1004 & -3 & 8 & 17\end{array}$
$\begin{array}{llll}1005 & -3 & 5 & 14\end{array}$
$\begin{array}{llll}1005 & -3 & 7 & 19\end{array}$
$\begin{array}{llll}1005 & -4 & 5 & 10\end{array}$
$\begin{array}{lll}1007 & -4 & 3\end{array} 43$
$\begin{array}{llll}1008 & -2 & 5 & 10 \\ 1009 & -2 & 3 & 14\end{array}$

| 1009 | -2 | 3 | 14 |
| :---: | :---: | :---: | :---: |
|  | DAY | 18 |  |
| 990 | -4 | 5 | 95 |

$\begin{array}{rrrr}990 & -4 & 5 & 95 \\ 991 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}992 & -5 & 5 & 85\end{array}$
$\begin{array}{llll}994 & -5 & 4 & 77\end{array}$
$\begin{array}{llll}995 & -5 & 8 & 81\end{array}$
$\begin{array}{llll}996 & -6 & 7 & 67\end{array}$
$\begin{array}{llll}997 & -7 & 2 & 73\end{array}$
$\begin{array}{llll}997 & -7 & 2 & 80\end{array}$
DAY 25
1003-10 3109
$\begin{array}{lll}1005 & -9 & 2107\end{array}$
$\begin{array}{llll}1006 & -9 & 2 & 95\end{array}$
$\begin{array}{llll}1008 & -9 & 1 & 69\end{array}$
$\begin{array}{llll}1009 & -9 & 1 & 108\end{array}$
$\begin{array}{lll}1010 & -6 & 4313\end{array}$
$\begin{array}{llll}1009 & -7 & 5 & 47\end{array}$
$\begin{array}{llll}1009 & -6 & 5 & 47\end{array}$

|  |  |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
|  |  | 11 | 8 | 997 | -1 | 3 | 53 | 1005 | -1 | 1 | 111 |
| 1000 | 3 | 13 | 10 | 999 | -1 | 3 | 56 | 1005 | -1 | 1 | 317 |
| 998 | 4 | 16 | 59 | 1001 | -1 | 2 | 59 | 1005 | -2 | 3 | 8 |
| 999 | 4 | 12 | 67 | 1003 | -1 | 3 | 49 | 1005 | -2 | 2 | 43 |
| 998 | 3 | 6 | 71 | 1004 | -1 | 1 | 55 | 1004 | -2 | 3 | 42 |
| 996 | 0 | 2 | 323 | 1006 | -1 | 2 | 87 | 1005 | -3 | 0 | 0 |
| 995 | 0 | 4 | 47 | 1005 | -1 | 2 | 115 | 1005 | -3 | 0 | 0 |
| 995 | -1 | 3 | 52 | 1005 | -1 | 1 | 104 | 1006 | -5 | 0 | 0 |
|  | DAY | 12 |  |  |  | 13 |  |  | DAY | 14 |  |
| 1009 | -2 | 4 | 10 | 1011 | -2 |  |  | 1022 | -3 | 2 | 90 |
| 1009 | -2 | 5 | 10 | 1012 | -3 |  |  | 1023 | -3 | 2 | 142 |
| 1008 | -2 | 5 | 11 | 1013 | -3 |  |  | 1023 | -2 | 2 | 126 |
| 1007 | -2 | 6 | 10 | 1014 | -2 | 1 | 67 | 1024 | -3 | 4 | 109 |
| 1007 | -3 | 2 | 8 | 1015 | -3 | 0 | 0 | 1024 | -2 | 4 | 122 |
|  |  |  |  | 1018 | -3 | 2 | 8 | 1022 | -1 | 4 | 152 |
| 1009 | -3 |  |  | 1019 | -3 | 2 | 129 | 1021 | -1 | 5 | 70 |
| 1010 | -3 |  |  | 1020 | -2 | 4 | 83 | 1021 | -1 | 0 | 0 |
|  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 997 | -8 | 2 | 149 | 988 | -3 | 0 | 0 | 982 | -1 | 0 | 0 |
| 997 | -7 |  | 244 | 988 | -2 | 0 | 0 | 983 | -3 | 6 | 67 |
| 995 | -8 | 1 | 140 | 987 | -1 | 0 | 0 | 984 | -4 | 4 | 88 |
| 993 | -7 | 2 | 208 | 986 | 2 |  | 227 | 984 | -3 | 0 | 0 |
| 992 | -5 | 3 | 146 | 984 | 1 | 6 | 306 | 985 | -3 | 0 | 0 |
| 990 | -5 | 2 | 88 |  |  |  |  |  |  |  |  |
| 989 | -4 | 1 | 8 | 983 | 2 | 2 | 8 | 985 | -3 | 4 | 01 |
| 989 | -4 | 0. | 0 | 982 | -1 | 0 | 0 | 986 | -4 | 0 | 0 |
|  |  | 26 |  |  |  | 27 |  |  |  |  |  |
| 1009 | -7 | 5 | 47 | 1005 | -9 | 3 | 97 | 999 | -6 | 2 | 126 |
| 1008 | -7 | 3 | 52 | 1004 | -9 | 2 | 108 | 1000 | -5 | 2 | 156 |
| 1008 | -8 |  | 332 | 1003 | -7 | 2 | 156 | 1000 | -5 | 2 | 112 |
| 1007 | -9 | 3 | 98 | 1003 | -7 | 1 | 116 | 1000 | -5 | 1 | 154 |
| 1007 | -10 | 3 | 98 | 1002 | -7 | 1 | 98 | 1000 | -5 | 3 | 105 |
| 1007 | -9 | 3 | 98 | 1001 | -7 | 2 | 126 | 1002 | -5 | 2 | 143 |
| 1006 | -9 |  | 102 | 1000 | -6 |  | 108 | 1001 | -5 | 2 | 139 |
|  |  |  |  |  |  |  |  |  |  |  |  |

DAY 6
$\begin{array}{llll}997 & -1 & 3 & 53\end{array}$
$\begin{array}{llll}999 & -1 & 3 & 56\end{array}$
$\begin{array}{llll}1001 & -1 & 2 & 59\end{array}$
$\begin{array}{llll}1003 & -1 & 3 & 49\end{array}$
$\begin{array}{llll}1004 & -1 & 1 & 55\end{array}$
$\begin{array}{llll}1006 & -1 & 2 & 87\end{array}$
$\begin{array}{llll}1005 & -1 & 2115\end{array}$
DAY 13
011 -2

1013 -3
$\begin{array}{llll}1014 & -2 & 1 & 67\end{array}$
$\begin{array}{llll}1018 & -3 & 2 & 8\end{array}$
$\begin{array}{llll}1019 & -3 & 2 & 129\end{array}$
DAY 20
$\begin{array}{llll}988 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}987 & -1 & 0 & 0\end{array}$
$986 \quad 2 \quad 4227$
$984 \quad 1 \quad 6306$
$\begin{array}{llll}983 & 2 & 2 & 8\end{array}$
DAY 27
$\begin{array}{llll}005 & -9 & 3 & 97\end{array}$
$1000-6 \quad 2137$

D

$$
\text { DAY } 7
$$

$\begin{array}{lll}1005 & -1 & 111\end{array}$
$\begin{array}{llll}1005 & -1 & 1317\end{array}$
$\begin{array}{llll}1005 & -2 & 3 & 8\end{array}$
$\begin{array}{llll}1005 & -2 & 2 & 43\end{array}$
$\begin{array}{llll}1004 & -2 & 3 & 42\end{array}$
$\begin{array}{llll}005 & -3 & 0 & 0\end{array}$
06 -5 0
90
$\begin{array}{llll}1022 & -3 & 2 & 9 \\ 1023 & -3 & 2 & 142\end{array}$
$\begin{array}{llll}1023 & -2 & 2126\end{array}$

1024-2 4122
$\begin{array}{lll}1022 & -1 & 4 \\ 152\end{array}$
$\begin{array}{llll}1021 & -1 & 5 & 70\end{array}$
DAY 21
$\begin{array}{llll}982 & -1 & 0 & 0\end{array}$
67

8


1
(
$\begin{array}{lll}1002 & -5 & 5\end{array} 147$

* temperature ( $C$ ) * mean $=-3.2$ Std dev $=3.5$ maX $=7.5$ at 1120 GMT ON DAY 2 MIN $=-12.4$ AT 450 GMT ON.DAY 24
* theta (K) * mean $=269.86$
* PRESSURE (MB) * MEAN $=1001.2$ STD DEV $=8.5$ maX $=1024.0$ at 830 GMT ON DAY 14 MIN $=981.5$ at 1640 GMT ON DAY 20
* WINDS (M/S) * MEAN $=3.3$ STD DEV $=3.1$ RESULTANT $=1.7$ FROM 74. CONSTANCY $=0.53 \mathrm{MAX}=21.8$ FROM 199. AT 730 GMT DAY 3
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.6 \%$ PRESSURE: $4.6 \%$ UINDS: $11.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
11 & 3 & 12 & 17 & 17 & 13 & 7 & 9 & 2 & 2 & 1 & 1 & 1 & 1 & 3 & 1
\end{array}
$$

JUL 97


* TEMPERATURE (C) * MEAN $=-7.0$ STD DEV $=4.6$ MAX $=2.5$ AT 2230 GMT ON DAY 19 MIN $=-19.1$ AT 2200 GMT ON DAY 26
* THETA (K) * MEAN = 267.15
* PRESSURE (MB) * MEAN $=987.4$ STD DEV $=17.6$ MAX $=1018.5$ AT 40 GMT ON DAY 7 MIN $=955.6$ AT 640 GMT ON DAY 14
* WINDS (M/S) * MEAN $=4.7$ STD DEV $=4.4$ RESULTANT $=2.2$ FROM 63. CONSTANCY $=0.47$ MAX $=21.3$ FROM 284 . AT 1800 GMT DAY 19 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.4 \%$ PRESSURE: $4.4 \%$ WINDS: $4.4 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
PERCENT
$\begin{array}{lllllllllllllll}6 & 0 & 26 & 18 & 11 & 14 & 6 & 2 & 2 & 2 & 1 & 6 & 2 & 1 & 2\end{array}$

HR PP TT WV DD DAY 1
$00 \quad 975$-19 12354 03 976-22 9301 $\begin{array}{lllll}06 & 975 & -22 & 13 & 42\end{array}$ $\begin{array}{lllll}09 & 976 & -23 & 10 & 43\end{array}$ $\begin{array}{lllll}12 & 975 & -23 & 8 & 42\end{array}$ $\begin{array}{lllll}15 & 976 & -20 & 8 & 157\end{array}$ $\begin{array}{lllll}18 & 976 & -18 & 4 & 167\end{array}$ $\begin{array}{llll}21 & 976 & -16 & 2\end{array}$ DAY 8

$\begin{array}{lllll}00 & 998 & -1 & 0 & 0\end{array}$ $\begin{array}{lllll}03 & 994 & 3 & 10 & 188\end{array}$ | 06 | 991 | 1 | 7 |
| :--- | :--- | :--- | :--- | $\begin{array}{lllll}09 & 986 & 2 & 8 & 8\end{array}$ | 12 | 980 | 1 | 13 |
| :--- | :--- | :--- | :--- | $\begin{array}{lllll}15 & 976 & 3 & 8 & 216\end{array}$ $\begin{array}{lllll}18 & 972 & 3 & 11 & 267\end{array}$ $\begin{array}{llll}21 & 972 & 0 & 2112\end{array}$ DAY 15

$\begin{array}{lllll}00 & 977 & -3 & 10 & 209\end{array}$ $\begin{array}{lllll}03 & 978 & -2 & 6 & 140\end{array}$ $\begin{array}{lllll}06 & 981 & -4 & 8 & 160\end{array}$ $\begin{array}{lllll}09 & 983 & -5 & 12 & 128\end{array}$ $\begin{array}{lllll}12 & 987 & -3 & 3 & 53\end{array}$ 15
$\begin{array}{lllll}18 & 989 & -3 & 11 & 97\end{array}$ $\begin{array}{lllll}21 & 990 & -5 & 2 & 53\end{array}$ DAY 22
$\begin{array}{llll}00 & 992 & -10 & 4\end{array} 98$ $\begin{array}{lllll}03 & 989 & -3 & 2 & 88\end{array}$ $\begin{array}{lllll}06 & 983 & -1 & 11 & 98\end{array}$ $\begin{array}{lllll}09 & 972 & -1 & 18 & 171\end{array}$ $\begin{array}{lllll}12 & 970 & 2 & 14 & 157\end{array}$ $\begin{array}{llll}15 & 968 & 1 & 15 \\ 92\end{array}$ $\begin{array}{lllll}18 & 965 & 1 & 14 & 10\end{array}$ $\begin{array}{lllll}21 & 959 & 1 & 14 & 73\end{array}$ DAY 29
$\begin{array}{llll}00 & 989 & 1 & 12 \\ 73\end{array}$ $\begin{array}{lllll}03 & 989 & 1 & 9 & 74\end{array}$ $\begin{array}{lllll}06 & 986 & 0 & 8 & 157\end{array}$ $\begin{array}{lllll}09 & 983 & 1 & 14 & 168\end{array}$ $\begin{array}{lllll}12 & 979 & 0 & 5 & 133\end{array}$ $\begin{array}{lllll}15 & 975 & 0 & 8 & 14\end{array}$ $\begin{array}{lllll}18 & 970 & -1 & 4 & 49\end{array}$ $\begin{array}{lllll}21 & 967 & -2 & 1 & 92\end{array}$

| PP |  |  | DD | PP |  | v | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 979 | -15 | 6 | 97 | 999 | -11 | 7 | 8 |
| 984 | -13 | 5 | 88 | 999 | -11 | 6 | 38 |
| 989 | -10 | 2 | 114 | 998 | -11 | 6 | 47 |
| 992 | -8 | 10 | 91 | 995 | -11 | 3 | 47 |
| 998 | -9 | 2 | 53 | 992 | -11 | 2 | 52 |
| 1000 | -8 | 0 | 0 | 989 | -10 | 1 | 8 |
| 1000 | -10 | 7 | 28 | 987 | -7 | 2 | 53 |
| 1000 | -10 | 3 | 52 | 986 | -7 | 4 | 53 |

$$
\text { DAY } 9
$$

972
$\begin{array}{llll}973 & -1 & 2 & 5\end{array}$
$\begin{array}{llll}973 & -1 & 1\end{array}$
$\begin{array}{lll}975 & -1 & 1\end{array} 25$
$\begin{array}{llll}975 & -1 & 0 & 0\end{array}$
$\begin{array}{llllllll}977 & -1 & 1 & 8 & 978 & -1 & 0 & 0\end{array}$
$\begin{array}{llllllll}977 & -1 & 0 & 0 & 978 & -2 & 2 & 77\end{array}$
$\begin{array}{llllllll}977 & -1 & 0 & 0 & 980 & -2 & 2 & 81\end{array}$ DAY 16

| 989 | -5 | 1 | 8 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}987 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}983 & -5 & 8 & 168\end{array}$
$\begin{array}{llll}980 & -6 & 6 & 133\end{array}$
$\begin{array}{llll}978 & -5 & 6 & 132\end{array}$
$\begin{array}{llll}975 & -3 & 4192\end{array}$
$\begin{array}{llll}973 & -2 & 4171\end{array}$
$\begin{array}{llll}973 & -2 & 3 & 69\end{array}$ DAY 23 $957 \quad 113 \quad 8$ $\begin{array}{llll}963 & -8 & 10 & 8\end{array}$ 971-12 $10 \quad 31$ 976-15 12249 $979-159220$
$\begin{array}{lllllll}979 & -13 & 2 & 185 & 973 & -15 & 4 \\ 164\end{array}$ $\begin{array}{llllllll}978 & -14 & 0 & 0 & 974 & -16 & 6 & 42\end{array}$ DAY 30
$\begin{array}{llll}963 & -2 & 2 & 52\end{array}$
$\begin{array}{llll}960 & -2 & 6 & 47\end{array}$
$\begin{array}{llll}958 & -3 & 4152\end{array}$
$\begin{array}{llll}957 & -4 & 1 & 130\end{array}$
$\begin{array}{llll}957 & -7 & 11 & 45\end{array}$
$\begin{array}{llll}959 & -9 & 11 & 32\end{array}$
964-12 $10 \quad 46$
966-12 $7 \quad 46$

## DAY 17

$\begin{array}{llll}973 & -2 & 1 & 60\end{array}$
$\begin{array}{llll}974 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}975 & -4 & 1 & 60\end{array}$
$\begin{array}{llll}976 & -3 & 4 & 49\end{array}$
$\begin{array}{llll}978 & -4 & 6 & 45\end{array}$
$\begin{array}{llll}978 & -4 & 3 & 50\end{array}$
$\begin{array}{llll}978 & -4 & 5 & 67\end{array}$
$\begin{array}{llll}976 & -5 & 8101\end{array}$ DAY 24
975-12 253
$\begin{array}{llll}972 & -11 & 2 & 76\end{array}$
967-10 $7 \quad 90$
969-14 8265
972-16 9199 DAY 31
967-12 646
$\begin{array}{llll}968 & -13 & 6 & 47\end{array}$
968-13 546
$\begin{array}{llll}969 & -13 & 4 & 50\end{array}$
970-13 549
$\begin{array}{llll}970 & -13 & 3 & 42\end{array}$
$\begin{array}{llll}971 & -12 & 5 & 10\end{array}$
974-13 $2 \quad 10$

PP TT WV DD PP TT WV DD PP TT WV DD PP TT WV DD DAY 4
$\begin{array}{llll}983 & -8 & 5 & 56\end{array}$
$\begin{array}{llll}984 & -16 & 7 & 45\end{array}$
984-11 5227
984-10 10233
987-13 12216
992-11 11202
996-11 8240 DAY 11
$\begin{array}{rrrr}981 & -2 & 1 & 8 \\ 981 & -3 & 3 & 63 \\ 983 & -4 & 2 & 43 \\ 983 & -4 & 1 & 182 \\ 983 & -3 & 0 & 0 \\ 983 & -2 & 1 & 195 \\ 982 & -1 & 2 & 52 \\ 982 & 0 & 10 & 140\end{array}$
DAY 18
$\begin{array}{llll}975 & -4 & 1 & 66\end{array}$
$\begin{array}{llll}975 & -5 & 2 & 73\end{array}$
$\begin{array}{llll}976 & -5 & 7140\end{array}$
977 -5 7202
$\begin{array}{llll}981 & -7 & 8 & 161\end{array}$
$\begin{array}{llll}986 & -8 & 5 & 137\end{array}$
$\begin{array}{llll}988 & -6 & 7 & 218\end{array}$
$\begin{array}{llll}992 & -8 & 3 & 128\end{array}$ DAY 25
$\begin{array}{llll}974 & -18 & 7 & 42\end{array}$ $\begin{array}{llll}975 & -18 & 7 & 202\end{array}$ 977-19 7213 979-20 8258 982-21 640 985-20 4278 985-18 194 $\begin{array}{llll}984 & -17 & 1 & 63\end{array}$

DAY 5
998-12 1175
$998-10 \quad 8 \quad \begin{array}{llll}998 & -4 & 4 & 42\end{array}$
$\begin{array}{llllllll}998 & -10 & 8 & 220 & 1000 & -7 & 4 & 50\end{array}$
$\begin{array}{lllllll}998 & -10 & 5 & 257 & 1001 & -8 & 4 \\ 50\end{array}$
$\begin{array}{llllllll}999 & -10 & 2 & 47 & 1003 & -12 & 2 & 59\end{array}$
$\begin{array}{llllllll}999 & -11 & 2 & 55 & 1004 & -9 & 3 & 56\end{array}$
$\begin{array}{llll}995 & -4 & 9 & 46\end{array}$
$\begin{array}{llllllllll}995 & -3 & 8 & 88 & 1007 & -4 & 2 & 50 \\ \text { DAY } & 12 & & & & \text { DAY } & 13 & \end{array}$

| 981 | 1 | 9 | 160 |
| :--- | :--- | :--- | :--- |
| 979 | 0 | 8 | 167 |

$\begin{array}{lllllll}978 & 1 & 5 & 246 & 981 & -3 & 3\end{array} 59$
$\begin{array}{llllllll}978 & -1 & 5 & 246 & 976 & -3 & 12 & 166\end{array}$

| 977 | 1 | 2 | 261 | 974 | -2 | 12 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllllll}975 & 1 & 9 & 206 & 973 & -2 & 13 & 168\end{array}$
$\begin{array}{llllllll}978 & 0 & 12 & 66 & 973 & -1 & 8 & 157\end{array}$
$\begin{array}{llllllll}981 & -2 & 4 & 57 & 973 & 0 & 4 & 175\end{array}$
$\begin{array}{llllllll}983 & -2 & 3 & 62 & 976 & -1 & 3 & 77\end{array}$
DAY 20

| 994 | -6 | 6 | 46 | 986 | -3 | 10 | 59 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllllll}996 & -7 & 5 & 45 & 979 & -1 & 10 & 56\end{array}$
$\begin{array}{llllllll}998 & -8 & 5 & 50 & 973 & -1 & 10 & 55\end{array}$
$\begin{array}{llllllll}999 & -9 & 3 & 49 & 967 & -1 & 11 & 53\end{array}$
$\begin{array}{llllllll}998 & -10 & 3 & 63 & 964 & -5 & 10 & 40\end{array}$
$\begin{array}{llllllll}996 & -8 & 3 & 143 & 964 & -7 & 13 & 43\end{array}$
$\begin{array}{llllllll}993 & -7 & 4 & 160 & 967 & -9 & 13 & 8\end{array}$
$\begin{array}{llllllll}990 & -5 & 3 & 123 & 968 & -10 & 13 & 43\end{array}$

## DAY 26

$\begin{array}{llll}983 & -15 & 3 & 87\end{array}$
$\begin{array}{llll}982 & -12 & 2 & 53 \\ 981 & -6 & 6 & 85\end{array}$
$\begin{array}{llll}981 & -6 & 6 & 85\end{array}$
$\begin{array}{llll}977 & -1 & 13 & 55\end{array}$
$\begin{array}{llll}981 & -6 & 7305\end{array}$
987-12 242
$\begin{array}{llll}989 & -11 & 5 & 47\end{array}$
$\begin{array}{llll}994 & -12 & 3 & 46\end{array}$

DAY 7
$\begin{array}{llll}1007 & -4 & 3 & 49\end{array}$ $\begin{array}{llll}1007 & -4 & 2 & 47\end{array}$ $\begin{array}{llll}1007 & -4 & 2 & 83\end{array}$ $\begin{array}{llll}1007 & -4 & 4 & 90\end{array}$ $\begin{array}{llll}1005 & -3 & 5 & 60\end{array}$ $\begin{array}{llll}1003 & -3 & 4 & 98\end{array}$ $\begin{array}{llll}1001 & -1 & 4111\end{array}$ $\begin{array}{llll}999 & -1 & 5 & 83\end{array}$ DAY 14
$\begin{array}{llll}979 & -1 & 8 & 74\end{array}$ $\begin{array}{llll}983 & -3 & 6 & 52\end{array}$ $\begin{array}{llll}985 & -4 & 5 & 56\end{array}$ $\begin{array}{llll}985 & -3 & 9 & 94\end{array}$ $\begin{array}{llll}984 & -2 & 8 & 147\end{array}$ $\begin{array}{llll}979 & -3 & 14 & 213\end{array}$ $\begin{array}{llll}978 & -3 & 11 & 171\end{array}$ DAY 21 $\begin{array}{llll}971 & -10 & 11 & 45\end{array}$ $\begin{array}{llll}975 & -12 & 13 & 12\end{array}$ $\begin{array}{llll}978 & -1212 \quad 43\end{array}$ $\begin{array}{llll}981 & -12 & 6 & 43\end{array}$ $\begin{array}{llll}983 & -11 & 7 & 45\end{array}$ 988-11 1354 $\begin{array}{llll}991 & -11 & 3 & 53\end{array}$ 993-11 256 DAY 28 $995 \quad 0 \quad 14 \quad 55$ $\begin{array}{llll}995 & 1 & 8 & 81\end{array}$ $995 \quad 1 \quad 8142$ $995 \quad 011 \quad 8$ $994 \quad 110 \quad 66$ $993 \quad 0 \quad 11 \quad 8$ $992 \quad 110 \quad 80$

* temperature ( $C$ ) * mean $=-6.4$ Std dev $=6.0$ max $=3.4$ at 1530 GMT ON dAY 8 MIN $=-23.6$ At 930 GMt on day 1
* theta (K) * MEAN $=268.13$
* PRESSURE (MB) * MEAN $=982.4$ StD DEV $=11.3$ MAX $=1007.2$ at 220 GMT ON DAY 7 MIN $=955.7$ at 110 GMt ON DAY 23
* WINDS (M/S) * MEAN $=5.8$ STD DEV $=4.0$ RESULTANT $=2.4$ FROM 78. CONSTANCY $=0.40$ MAX $=24.4$ FROM 218. AT 920 GMT DAY 22
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.2 \%$ PRESSURE: $3.2 \%$ WINDS: $\mathbf{3 . 2 \%}$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{llllllllllllllllllllll}\text { PERCENT: } & 22 & 20 & 15 & 13 & 11 & 10 & 7 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NH NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 7 & 2 & 32 & 14 & 11 & 2 & 5 & 8 & 3 & 5 & 3 & 3 & 3 & 0 & 0 & 0\end{array}$


HR PP TT WV DD
$\begin{array}{lllll}00 & 1023 & -7 & 2 & 46\end{array}$ 031022 -6 00 $\begin{array}{lllll}06 & 1022 & -6 & 1 & 8\end{array}$ $091021-4 \quad 0 \quad 0$ $\begin{array}{lllll}12 & 1019 & -3 & 2160\end{array}$ $\begin{array}{llll}15 & 1018 & -2 & 2115\end{array}$ 18 21

|  |  | DAY | 8 |  |  | DAY | 9 |  | DAY 10 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 970 | -4 |  | 333 | 987 | -4 | 6 | 92 | 997 | -4 | 3 | 102 |
| 03 | 969 | -3 | 15 | 18 | 989 | -4 | 8 | 19 | 998 | -3 | 3 | 56 |
| 06 | 971 | -4 | 10 | 256 | 991 | -5 | 5 | 10 | 1000 | -4 | 3 | 53 |
| 09 | 974 | -3 | 1 | 236 | 991 | -5 | 11 | 10 | 1001 | -4 | 2 | 49 |
| 12 | 976 | -3 | 9 | 125 | 994 | -4 | 6 | 10 |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 982 | -3 | 4 | 69 | 995 | -3 | 4 | 98 |  |  |  |  |
| 21 | 985 | -3 | 3 | 69 | 996 | -4 | 2 | 108 | 1005 | -2 | 3 | 73 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  |  |  |  |
| 00 | 992 | -10 |  |  | 998 | -8 | 2 | 92 | 988 | 1 | 8 | 12 |
| 03 | 990 | -10 |  |  | 997 | -8 | 3 | 119 | 988 | 1 | 6 | 80 |
| 06 | 988 | -11 |  |  | 993 | -5 | 3 | 192 |  |  |  |  |
| 09 | 990 | -9 |  |  | 990 | -4 | 4 | 161 |  |  |  |  |
| 12 | 993 | -7 | 4 | 227 | 990 | -3 | 4 | 171 |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 998 | -6 | 3 | 57 |  |  |  |  |  |  |  |  |
| 21 | 999 | -7 | 0 | 0 | 990 | -2 | 6 | 108 |  |  |  |  |
|  | DAY 22 |  |  |  | DAY 23 |  |  |  | DAY 24 |  |  |  |
| 00 | 976 | -2 | 3 | 62 | 984 | -6 | 2 | 71 | 994 | -6 | 3 | 32 |
| 03 | 977 | -2 | 2 | 53 | 985 | -6 | 5 | 10 | 996 | -6 | 1 | 10 |
| 06 | 978 | -3 | 3 | 57 | 986 | -6 | 4 | 59 | 996 | -8 | 1 | 11 |
| 09 | 979 | -4 | 6 | 47 | 987 | -7 | 3 | 32 | 997 | -9 | 2 | 11 |
| 12 | 981 | -5 | 2 | 43 | 989 | -5 | 3 | 11 | 999 | -8 | 2 | 49 |
| 15 |  |  |  |  | 990 | -4 | 3 | 10 | 999 | -6 | 2 | 50 |
| 18 | 983 | -1 |  | 360 | 992 | -4 | 3 | 46 | 1000 | -7 | 2 | 10 |
| 21 | 983 | -5 | 3 | 63 | 993 | -4 | 3 | 45 | 1000 | -6 | 1 | 56 |
|  | DAY 29 |  |  |  | DAY 30 |  |  |  | DAY 31 |  |  |  |
| 00 | 988 | -3 | 11 | 39 | 986 | -3 |  |  | 978 | -2 | 7 | 95 |
| 03 | 990 | -4 | 9 | 15 | 986 | -2 |  |  | 975 | -2 | 8 | 64 |
| 06 | 991 | -4 |  |  | 986 | -2 |  |  | 973 | -4 | 3 | 70 |
| 09 | 992 | -5 |  |  | 986 | -2 |  |  | 972 | -5 | 3 | 49 |
| 12 | 991 | -3 |  |  | 985 | -2 |  |  | 972 | -4 | 4 | 56 |
| 15 |  |  |  |  |  |  |  |  | 972 | -4 | 6 | 53 |
| 18 | 987 | -2 |  |  | 983 | -2 |  |  | 973 | -5 | 10 | 45 |
| 21 | 987 | -2 |  |  | 982 | -2 | 6 | 74 | 975 | -6 | 11 | 45 |



MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-3.4$ Std dev $=2.8$ maX $=3.5$ AT 1550 GMT ON DAY 3 MIN $=-11.8$ at 620 GMT ON DAY 15
* THETA (K) * MEAN $=270.61$
* PRESSURE (MB) * MEAN $=989.1$ STD DEV $=12.4$ MAX $=1022.7$ AT 10 GMT ON DAY 1 MIN $=951.1$ AT 330 GMT ON DAY 19
* WINDS (M/S) * MEAN $=4.6$ STD DEV $=3.9$ RESULTANT $=3.4$ FROM 51. CONSTANCY $=0.74 \mathrm{MAX}=23.8$ FROM 42. AT 420 GMT DAY 19
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $20.2 \%$ PRESSURE: $20.2 \%$ WINDS: $28.2 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW


HR PP TT VV DD |  | DAY |  |  |
| :--- | :--- | :--- | :--- |
| 00 | 1 |  |  |
| 078 | -7 | 6 | 271 |

$\begin{array}{lllll}06 & 981 & -7 & 7 & 8\end{array}$
$\begin{array}{lllll}09 & 984 & -6 & 1 & 64\end{array}$
$\begin{array}{lllll}12 & 987 & -5 & 4 & 35\end{array}$
$\begin{array}{lllll}15 & 990 & -4 & 6 & 50\end{array}$
$\begin{array}{lllll}18 & 992 & -5 & 6 & 45\end{array}$
$\begin{array}{lllll}21 & 995 & -6 & 7 & 45\end{array}$
$\begin{array}{llrll} & & \text { DAY } & 8 \\ 00 & 989 & -4 & 4 & 166\end{array}$
$\begin{array}{lllll}03 & 991 & -6 & 5 & 114\end{array}$
$\begin{array}{lllll}06 & 993 & -9 & 2 & 78\end{array}$
$\begin{array}{lllll}09 & 994 & -8 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 997 & -5 & 6 & 97\end{array}$
$\begin{array}{lllll}15 & 999 & -4 & 7 & 123\end{array}$
$\begin{array}{lllll}18 & 1001 & -2 & 3 & 114\end{array}$
$\begin{array}{lllll}21 & 1002 & -3 & 2 & 130\end{array}$
DAY 15
$\begin{array}{lllll}00 & 1005 & -5 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 1005 & -7 & 2 & 98\end{array}$
$\begin{array}{lllll}06 & 1005 & -6 & 2 & 85\end{array}$
$\begin{array}{lllll}09 & 1004 & -6 & 1 & 125\end{array}$
$\begin{array}{lllll}12 & 1003 & -3 & 2 & 73\end{array}$
15
$\begin{array}{lllll}18 & 998 & -1 & 4 & 85\end{array}$
21
DAY 22
001003 -2
$\begin{array}{lllll}03 & 1003 & -2 & 2 & 11\end{array}$
061003 -2 $\quad 3 \quad 95$
091004 - 1
12
15
18
$21 \quad 10041$

00
$\begin{array}{lllllllll}03 & 993 & -1 & 3 & 57 & 1005 & -1 & 4 & 63\end{array}$
$\begin{array}{lllllllll}06 & 994 & -2 & 2 & 60 & 1007 & -1 & 5 & 64\end{array}$
$\begin{array}{lllllllll}09 & 996 & -3 & 4 & 45 & 1008 & -2 & 3 & 64\end{array}$
12
15
18
21
$1012 \quad 1 \quad 1 \quad 60$

* temperature ( $C$ ) * mean $=-2.7$ Std dev $=2.8$ MAX $=3.1$ at 1910 GMT ON dAY 26 min $=-11.1$ at 350 GMt ON dAY 9
* THETA (K) * MEAN $=270.90$
* PRESSURE (MB) * MEAN $=994.2$ STD DEV $=9.3$ MAX $=1012.3$ AT 2040 GMT ON DAY 30 MIN $=974.6$ AT 1610 GMT ON DAY 4
* WINDS (M/S) * MEAN $=3.1$ STD DEV $=2.3$ RESULTANT $=2.3$ FROM 80. CONSTANCY $=0.73 \mathrm{MAX}=14.8$ FROM 116. AT 1100 GMT DAY 20
* MISSING 3-hourly observations * TEMPERATURE: $28.7 \%$ PRESSURE: $28.7 \%$ WINDS: $36.7 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60-1$ $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 44 & 29 & 14 & 9 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 4 & 4 & 19 & 23 & 15 & 16 & 7 & 5 & 4 & 1 & 1 & 0 & 1 & 0 & 0 & 0\end{array}$

LAT : 64.78S LONG : 64.07W ELEVATION : 8 M
DEC 97

HR PP TT VV DD PP TT VV DD PP TT VV DD DAY 1
00
$\begin{array}{lllll}03 & 1013 & -2 & 1 & 107\end{array}$
06
$\begin{array}{lllllllll}09 & 1013 & -1 & 0 & 0 & 1014 & 1 & 1 & 59\end{array}$
$\begin{array}{lllllllll}12 & 1013 & 0 & 2 & 188 & 1014 & 1 & 1 & 43\end{array}$
15
$181013 \quad 3 \quad 0 \quad 0$
2110143160

|  | DAY |  |  |  | 8 |  | DAY |  |  |  | 9 |  |
| :--- | :--- | ---: | :--- | ---: | :--- | ---: | ---: | ---: | ---: | :---: | :---: | :---: |
| 00 | 1000 | 3 | 1 | 8 | 997 | 3 | 1 | 188 |  |  |  |  |
| 03 | 1000 | 1 | 2 | 188 | 997 | 1 | 2 | 70 |  |  |  |  |
| 06 | 1000 | 0 | 1 | 70 | 997 | 2 | 1 | 226 |  |  |  |  |
| 09 | 999 | 1 | 3 | 170 |  | 997 | 2 | 0 | 0 |  |  |  |
| 12 | 999 | 3 | 1 | 47 | 996 |  | 1 | 73 |  |  |  |  |
| 15 |  |  |  |  | 996 | 1 | 2 | 66 |  |  |  |  |
| 18 | 998 | 5 | 1 | 98 | 996 | 2 | 1 | 47 |  |  |  |  | 21


|  | DAY 15 |  |  |  | DAY 16 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 986 | 2 | 2 | 67 | 999 | 1 | 2 | 73 |
| 03 | 989 | 1 | 4 | 83 | 998 | -1 | 1 | 88 |
| 06 | 993 | 1 | 2 | 63 | 997 | 0 | 2 | 77 |
| 09 | 996 | 2 | 1 | 66 | 995 | -1 | 2 | 60 |
| 12 | 997 | 2 | 4 | 91 | 994 | 0 | 1 | 73 |
| 15 | 999 | 2 | 5 | 69 | 993 | 1 | 2 | 74 |
| 18 | 999 | 1 | 5 | 64 |  |  |  |  |
| 21 | 1000 | 1 | 4 | 66 | 992 | 2 | 1 | 240 |
|  | DAY 22 |  |  |  | DAY 23 |  |  |  |
| 00 | 980 | -2 |  | 239 |  |  |  |  |
| 03 | 980 | -2 | 1 | 43 | 987 | 0 | 5 | 100 |
| 06 | 980 | -2 | 1 | 139 | 989 | -1 | 2 | 135 |
| 09 | 981 | -1 | 1 | 182 | 990 | 0 | 1 | 66 |
| 12 |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |
| 18 | 985 | 3 | 5 | 170 | 992 | 2 | 8 | 97 |
| 21 | 986 | 3 | 5 | 160 |  |  |  |  |
|  | DAY 29 |  |  |  | DAY 30 |  |  |  |
| 00 | 1003 | 2 | 3 | 52 |  |  |  |  |
| 03 | 1003 | 1 | 2 | 199 | 1007 | 0 | 4 | 47 |
| 06 | 1004 | -1 | 1 | 157 | 1007 | 0 | 3 | 46 |
| 09 |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  | 1009 | 2 | 2 | 50 |
|  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  | 1010 | 2 | 2 | 78 |


| Pp | TT VV DDDAY |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| 1013 | 2 | 1 | 222 |
| 1013 | 0 | 2 | 76 |
| 1013 | -1 | 1 | 74 |
| 1014 | 1 | 1 | 59 |
| 1014 | 1 | 1 | 43 |
|  | day | 9 |  |
| 997 | 3 | 1 | 188 |
| 997 | 1 | 2 | 70 |
| 997 | 2 | 1 | 226 |
| 997 | 2 | 0 | 0 |
| 996 |  | 1 | 73 |
| 996 | 1 | 2 | 66 |
| 996 | 2 | 1 | 47 |


| PP |  |  |  |
| :---: | ---: | ---: | ---: |
| DAY | VV | DD |  |
| DAY | 3 |  |  |
| 1015 | -1 | 1 | 315 |
| 1016 | -1 | 2 | 121 |
| 1015 | -2 | 4 | 140 |
| 1015 | -1 | 6 | 198 |
|  |  |  |  |
| 1014 |  | 1 | 66 |
| 1013 | 2 | 5 | 168 |
| 1013 | 3 | 0 | 0 |

9960250
$996 \quad 0 \quad 1 \quad 56$
$\begin{array}{llll}996 & -1 & 1 & 38\end{array}$
$\begin{array}{llll}997 & -1 & 1 & 32\end{array}$
$997 \quad 0 \quad 1 \quad 24$
597125 DAY 31

| PP |  |  | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  |  |  |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  |  |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | W 7 | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1012 | 1 | 4 | 80 | 1003 | 2 |  |  | 161 |  |  |  |  | 1003 | 3 | 1 | 188 |
| 1011 | 1 |  | 309 | 1002 | 1 | 0 |  | 0 | 1003 | 1 | 1 | 11 | 1003 | 1 | 1 | 175 |
| 1010 | 1 | 1 | 76 | 1001 | 1 | 1 | 1 | 71 | 1003 | 1 | 2 | 244 | 1002 | 2 | 4 | 87 |
| 1009 | 2 | 2 | 81 | 1002 | 2 |  |  | 123 | 1003 | 1 | 1 | 55 | 1002 | 1 | 1 | 73 |
|  |  |  |  | 1002 | 4 | 4 |  | 78 | 1003 | 3 | 1 | 77 | 1002 | 2 | 1 | 78 |
| 1007 | 3 | 2 | 52 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1006 | 4 | 1 | 77 |  |  |  |  |  |  |  |  |  | 1001 | 3 | 1 | 60 |
| 1004 | 3 | 1 | 70 | 1003 | 3 |  |  | 11 | 1003 | 4 | 1 | 78 | 1001 | 3 | 1 | 47 |
|  | day | 11 |  |  | DAY | 12 |  |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 998 | 0 | 2 | 305 | 990 | 0 | 2 |  | 74 | 988 | 3 | 3 | 50 | 984 | 0 | 2 | 129 |
| 997 | -1 | 1 | 167 | 990 | 0 | 1 | 16 | 60 | 986 | 4 | 7 | 98 | 985 | 0 | 4 | 69 |
| 996 | -1 | 1 | 105 | 990 | 0 |  |  | 271 | 986 | 3 | 6 | 98 | 985 | 0 | 5 | 77 |
| 996 | -1 | 2 | 126 | 989 | 1 |  |  | 116 | 985 | 4 | 7 | 104 | 985 | 0 | 1 | 71 |
| 995 | -1 | 2 | 159 | 989 | 3 | 7 | 10 | 09 |  |  |  |  | 984 | 1 | 1 | 194 |
|  |  |  |  |  |  |  |  |  | 983 | 2 | 2 | 133 | 983 | 1 | 3 | 216 |
|  |  |  |  | 989 | 5 |  |  | 15 | 983 | 1 | 2 | 57 | 984 | 2 | 1 | 47 |
| 992 | 2 | 1 | 66 | 989 | 4 |  |  | 32 | 983 | 1 | 1 | 84 |  |  |  |  |
|  | day | 18 |  |  | DAY | 19 |  |  |  |  | 20 |  |  | DAY | 21 |  |
| 987 | 1 | 1 | 256 | 991 | 1 | 2 |  | 70 | 989 | 1 | 2 | 70 | 984 | -1 | 4 | 56 |
| 987 | 0 | 2 | 76 | 991 | 1 | 10 |  | 95 | 989 | -1 | 2 | 160 | 983 | -1 | 4 | 49 |
| 987 | 0 | 1 | 57 | 991 | 1 | 6 |  | 02 | 988 | -1 | 1 | 190 | 982 | -1 | 3 | 45 |
| 987 | 0 | 4 | 78 | 992 | 1 | 2 |  | 95 | 988 | -1 | 5 | 59 | 981 | -1 | 4 | 50 |
| 989 | 1 | 2 | 63 | 992 | 1 |  |  | 59 |  |  |  |  |  |  |  |  |
| 989 | 2 |  | 157 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 990 | 1 | 1 | 8 | 991 | 2 | 4 |  | 74 | 986 | 0 | 4 | 56 | 980 | -1 | 1 | 47 |
|  | 1 |  | 274 | 990 | 1 |  | . 17 |  |  |  |  |  | 980 | -2 | 1 | 42 |
|  | dAY | 25 |  |  | DAY | 26 |  |  |  | DAY | 27 |  |  | DAY | 28 |  |
|  |  |  |  | 992 | 0 | 3 |  | 40 | 1000 | 2 | 3 | 95 | 1000 | -1 | 2 | 100 |
| 996 | 1 | 1 | 123 | 992 | -1 | 5 |  | 21 | 1001 | 1 | 2 | 92 | 1000 | -1 | 3 | 118 |
| 994 | -1 | 3 | 62 | 992 | 0 | 2 |  | 77 | 1001 | 0 | 1 | 97 | 1000 | -1 | 2 | 104 |
|  |  |  |  |  |  |  |  |  | 1000 | 0 | 2 | 73 |  |  |  |  |
| 992 | 1 | 8 | 74 | 995 | 2 | 2 |  | 81 | 1000 | -1 | 2 | 115 |  |  |  |  |
| 991 | 2 | 7 | 83 | 997 | 2 | 3 |  | 67 |  |  |  |  |  |  |  |  |
| 991 | 1 | 7 | 98 | 999 | 2 | 3 |  | 73 | 999 | 0 | 5 | 88 | 1003 | 2 | 3 | 42 |

100321161
$\begin{array}{llllllll}1002 & 1 & 0 & 0 & 1003 & 1 & 1 & 11\end{array}$
$\begin{array}{llllllll}1001 & 1 & 1 & 71 & 1003 & 1 & 2 & 244\end{array}$
$\begin{array}{llllllll}1002 & 2 & 1 & 123 & 1003 & 1 & 1 & 55\end{array}$
$\begin{array}{llllllll}002 & 4 & 4 & 78 & 1003 & 3 & 1 & 77\end{array}$
$1001 \quad 3160$

DAY 14
98402129
$985 \quad 0 \quad 4 \quad 69$
$985 \quad 0 \quad 5 \quad 77$
$\begin{array}{llll}985 & 0 & 1 & 71\end{array}$
98313216
$984 \quad 2 \quad 1 \quad 47$

DAY 21
$\begin{array}{llll}984 & -1 & 4 & 56\end{array}$
$\begin{array}{llll}983 & -1 & 4 & 49\end{array}$
$\begin{array}{llll}982 & -1 & 3 & 45\end{array}$
$\begin{array}{llll}981 & -1 & 4 & 50\end{array}$
$\begin{array}{llll}980 & -1 & 1 & 47\end{array}$
DAY 28
$\begin{array}{llll}1000 & -1 & 2100\end{array}$
$\begin{array}{llll}1000 & -1 & 3 & 118\end{array}$
$\begin{array}{llllllll}1001 & 0 & 1 & 97 & 1000 & -1 & 2 & 104\end{array}$
$1000 \quad 0 \quad 2 \quad 73$
$\begin{array}{llll}1000 & -1 & 2115\end{array}$

996 1 212129171

PP TT VV DD DAY 10121480 $1011 \quad 11309$ $\begin{array}{llll}1010 & 1 & 1 & 76\end{array}$ $1007 \quad 3 \quad 52$ $\begin{array}{llll}1006 & 4 & 1 & 77\end{array}$ 10043170 DAY 11

## 9971256

 DAY 179921149
$991 \quad 0 \quad 3 \quad 83$
$991 \quad 1 \quad 4226$
$990 \quad 0 \quad 2 \quad 76$
$990 \quad 2 \quad 1 \quad 69$
$\begin{array}{llll} \\ 988 & 3 & 1 & 59 \\ 987 & 2 & 1 & 67\end{array}$ DAY 24
$993 \quad 0 \quad 10 \quad 94$
$\begin{array}{llll}994 & -1 & 7 & 98\end{array}$
$995 \quad 1 \quad 2139$
$996 \quad 21292$
$998 \quad 0 \quad 2305$
$\begin{array}{llll}997 & -1 & 1 & 167\end{array}$
$\begin{array}{llll}996 & -1 & 1 & 105\end{array}$
$\begin{array}{llll}996 & -1 & 2 & 126\end{array}$
$\begin{array}{lll}995 & -1 & 2159\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=0.9$ std dev $=1.4$ max $=5.9$ at 1850 GMT ON day 8 min $=-2.9$ at 640 GMt ON dAY 1
* theta (K) * MEAN $=274.37$
* PRESSURE (MB) * MEAN $=996.2$ Std dev $=9.2$ maX $=1016.3$ at 300 GMT ON dAY 3 MIN $=979.7$ at 50 GMt ON dAY 22
* WINDS (M/S) * MEAN $=2.4$ STD DEV $=1.9$ RESULTANT $=1.7$ fROM 92. CONSTANCY $=0.69 \mathrm{mAX}=13.8$ FROM 109. AT 50 GMT DAY 13
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $27.8 \%$ PRESSURE: $27.0 \%$ WINDS: $27.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

* temperature ( $C$ ) * mean $=-27.3$ STD dev $=3.9$ max $=-20.0$ at 1150 GMT ON day 10 min $=-37.8$ at 1750 GMt ON DAY 31
* theta (K) * mean $=274.67$
* PRESSURE (MB) * MEAN $=678.8$ STD DEV $=3.0$ MAX $=683.7$ AT 730 GMT ON DAY 18 MIN $=669.6$ AT 330 GMT ON DAY 7 * WINDS (M/S) * MEAN $=3.7$ STD DEV $=1.8$ RESULTANT $=2.7$ FROM 310. CONSTANCY $=0.72$ MAX $=10.1$ FROM 270. AT 1400 GMT DAY 4 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W UNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 21 & 10 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 11 & 13 & 18 & 15 & 9\end{array}$

FEB 97
HR PP TT WV DD

|  |  | DAY | 1 |
| :--- | ---: | ---: | ---: |
| 00 | 676 | -38 | 5 |

$\begin{array}{lllll}03 & 676 & -38 & 5 & 1\end{array}$
$\begin{array}{lllll}06 & 676 & -39 & 5 & 360\end{array}$
$\begin{array}{lllll}09 & 676 & -37 & 4 & 352\end{array}$
$\begin{array}{lllll}12 & 677 & -36 & 3 & 340\end{array}$
$\begin{array}{lllll}15 & 677 & -35 & 3 & 331\end{array}$
18
$\begin{array}{llll}21 & 679 & -35 & 2 \\ 295\end{array}$ DAY 8
$\begin{array}{llll}00 & 678 & -39 & 2313\end{array}$
$\begin{array}{lllll}03 & 678 & -39 & 3 & 327\end{array}$
$\begin{array}{lllll}06 & 678 & -40 & 4 & 330\end{array}$
$09 \quad 678$-39 4323
$\begin{array}{lllll}12 & 677 & -40 & 4 & 337\end{array}$
$\begin{array}{lllll}15 & 676 & -40 & 6 & 344\end{array}$
$\begin{array}{lllll}18 & 675 & -39 & 7 & 337\end{array}$
$\begin{array}{llllll}21 & 674 & -40 & 6 & 343\end{array}$ DAY 15
$\begin{array}{lllll}00 & 672 & -37 & 3 & 267\end{array}$
$\begin{array}{lllll}03 & 672 & -39 & 3 & 300\end{array}$
$\begin{array}{lllll}06 & 672 & -40 & 4 & 281\end{array}$
$\begin{array}{lllll}09 & 673 & -41 & 4 & 278\end{array}$
$\begin{array}{llll}12 & 673 & -41 & 4300\end{array}$
$\begin{array}{llll}15 & 673 & -40 & 5 \\ 316\end{array}$
$\begin{array}{lllll}18 & 673 & -40 & 5 & 313\end{array}$
$\begin{array}{llll}21 & 672-40 \quad 6310\end{array}$ DAY 22

| 00 | 668 | -48 | 6 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 668 & -47 & 5 & 289\end{array}$
$\begin{array}{lllll}06 & 668 & -47 & 6 & 293\end{array}$
$\begin{array}{lllll}09 & 668 & -45 & 6 & 299\end{array}$
$\begin{array}{lllll}12 & 668 & -44 & 4 & 299\end{array}$
$\begin{array}{lllll}15 & 668 & -44 & 4 & 299\end{array}$
$\begin{array}{lllll}18 & 668 & -44 & 4 & 317\end{array}$
$\begin{array}{lllll}21 & 668 & -45 & 4 & 305\end{array}$



| PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | 6 | DD | PP |  | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 682 | -33 | 0 | 0 | 675 | -39 | 19 |
| 681 | -35 | 3 | 354 | 675 | -38 | 35 |
| 680 | -37 | 4 | 351 | 675 | -39 | 18 |
| 679 | -36 | 4 | 358 | 675 | -38 | 5357 |
| 678 | -37 | 5 | 357 | 676 | -33 | 1322 |
| 677 | -37 | 5 | 1 | 676 | -36 | 3326 |
| 676 | -38 | 5 | 23 | 677 | -38 | 3293 |
| 676 | -38 | 5 | 23 | 677 | -39 | 3288 |
|  | DAY | 13 |  |  | DAY | 14 |
| 676 | -37 | 5 | 285 | 673 | -36 | 6292 |
| 675 | -38 | 5 | 293 | 673 | -37 | 6292 |
| 675 | -38 | 4 | 300 | 673 | -38 | 6285 |
| 675 | -37 | 5 | 296 | 672 | -37 | 8296 |
| 675 | -36 | 5 | 306 | 672 | -38 | 6300 |
| 674 | -37 | 6 | 313 | 672 | -38 | 5299 |
| 673 | -37 | 6 | 296 | 672 | -39 | 6295 |
| 673 | -37 | 6 | 293 | 672 | -37 | 5274 |
|  | DAY | 20 |  |  | DAY | 21 |
| 664 | -51 | 8 | 1 | 665 | -49 | 4306 |
| 664 | -51 | 8 | 8 | 666 | -49 | 4296 |
| 663 | -51 | 9 | 8 | 666 | -48 | 4317 |
| 663 | -50 | 10 | 7 | 666 | -47 | 5338 |
| 663 | -49 | 5 | 337 | 666 | -49 | 6333 |
| 663 | -49 | 5 | 345 | 666 | -47 | 6313 |
| 664 | -49 | 6 | 330 | 667 | -46 | 5299 |
| 664 | -49 | 5 | 313 | 667 | -46 | 6299 |
|  | DAY | 27 |  |  | DAY | 28 |
| 667 | -54 | 6 | 360 | 663 | -46 | 6306 |
| 666 | -54 | 6 | 1 | 663 | -45 | 6303 |
| 664 | -55 | 9 | 4 | 663 | -43 | 7296 |
| 663 | -53 | 6 | 360 | 663 | -43 | 4293 |
| 662 | -51 | 3 | 352 | 662 | -42 | 6286 |
| 662 | -47 | 5 | 307 | 662 | -42 | 4288 |
| 663 | -48 |  | 327 | 663 | -42 | 3286 |
| 662 | -47 |  | 319 | 663 | -43 | 4285 |

* temperature ( $C$ ) * mean $=-41.8$ Std dev $=5.1$ maX $=-31.4$ at 10 gmt on day 6 min $=-55.0$ at 2340 GMt on day 26
* THETA (K) * MEAN $=259.12$
* PRESSURE (MB) * MEAN $=672.6$ STD DEV $=6.1$ MAX $=684.9$ AT 2250 GMT ON DAY 2 MIN $=662.1$ AT 1540 GMT ON DAY 28
* WINDS (M/S) * MEAN $=4.4$ STD DEV $=1.7$ RESULTANT $=3.8$ FROM 320 . CONSTANCY $=0.87 \mathrm{MAX}=10.7$ FROM 350 . AT 2220 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \%$ WINDS: $0.9 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ $\begin{array}{llllllllllllllllllllllll}\text { PERCENT: } & 8 & 36 & 39 & 15 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW USW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 17 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 6 & 35 & 22 & 15\end{array}$

MAR 97

| HR | PP |  | VV DD | PP | TT | V | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 664 | -44 | 3299 | 669 | -45 | 5 | 351 | 668 | -47 | 6 | 330 |
| 03 | 664 | -42 | 3279 | 669 | -49 | 6 | 47 | 668 | -47 | 6 | 333 |
| 06 | 665 | -45 | 4299 | 669 | -48 | 0 | 0 | 668 | -47 | 6 | 324 |
| 09 | 666 | -46 | 2302 | 668 | -48 | 8 | 358 | 668 | -47 | 5 | 319 |
| 12 | 667 | -44 | 3302 | 668 | -48 | 7 | 360 | 668 | -47 | 4 | 319 |
| 15 | 667 | -45 | 3310 | 668 | -47 | 3 | 360 | 668 | -48 | 4 | 324 |
| 18 | 668 | -45 | 3320 | 668 | -47 | 6 | 340 | 668 | -49 | 4 | 319 |
| 21 | 668 | -47 | 3338 | 668 | -47 | 5 | 338 | 668 | -50 | 4 | 326 |
|  |  | DAY | 8 |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 660 | -53 | 5313 | 663 | -55 | 2 | 357 | 662 | -56 | 3 | 340 |
| 03 | 660 | -54 | 3307 | 663 | -56 | 2 | 358 | 661 | -56 | 4 | 336 |
| 06 | 661 | -54 | 4293 | 662 | -56 | 2 | 354 | 661 | -56 | 1 | 306 |
| 09 | 662 | -54 | 2275 | 662 | -55 | 4 | 344 | 660 | -57 | 5 | 309 |
| 12 | 662 | -54 | 4285 | 662 | -55 | 4 | 348 | 659 | -57 | 5 | 345 |
| 15 | 663 | -55 | 2288 | 662 | -54 | 3 | 350 | 659 | -56 | 3 | 334 |
| 18 | 663 | -54 | 1291 | 662 | -55 | 3 | 344 | 658 | -53 | 4 | 323 |
| 21 | 664 | -53 | 2333 | 662 | -56 | 3 | 344 | 658 | -53 | 5 | 319 |
|  |  | DAY | 15 |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 664 | -54 | $5 \quad 16$ | 660 | -58 | 3 | 352 | 658 | -58 | 2 | 329 |
| 03 | 664 | -56 | 422 | 660 | -56 | 2 | 330 | 658 | -59 | 2 | 327 |
| 06 | 663 | -55 | 6 | 660 | -54 | 2 | 313 | 659 | -57 | 3 | 306 |
| 09 | 663 | -56 | $4 \quad 21$ | 660 | -54 | 2 | 315 | 659 | -58 | 4 | 298 |
| 12 | 662 | -57 | 511 | 660 | -53 | 3 | 319 | 660 | -58 | 3 | 296 |
| 15 | 661 | -57 | 3360 | 660 | -54 | 3 | 334 | 660 | -57 | 4 | 300 |
| 18 | 661 | -58 | 315 | 659 | -59 | 4 | 336 | 661 | -53 | 4 | 300 |
| 21 | 660 | -59 | 4360 | 659 | -60 | 3 | 345 | 661 | -52 | 5 | 293 |
|  |  | DAY | 22 |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 673 | -51 | 0 | 672 | -57 | 4 | 9 | 669 | -63 | 7 | 360 |
| 03 | 672 | -54 | 1298 | 672 | -59 | 6 | 8 | 668 | -63 | 9 | 7 |
| 06 | 673 | -51 | 0 | 671 | -58 | 6 | 9 | 668 | -64 | 9 | 5 |
| 09 | 672 | -51 | 0 | 671 | -60 | 6 | 4 | 668 | -64 | 9 | 360 |
| 12 | 672 | -54 | 4354 | 671 | -60 | 6 | 15 | 668 | -64 | 4 | 355 |
| 15 | 672 | -57 | 145 | 670 | -61 | 8 | 2 | 669 | -64 | 3 | 340 |
| 18 | 672 | -57 | 34 | 670 | -62 | 7 | 12 | 668 | -65 | 7 | 360 |
| 21 | 672 | -58 | 5360 | 669 | -62 | 8 | 11 | 669 | -65 | 4 | 360 |
|  |  | DAY | 29 |  | DAY | 30 |  |  | DAY | 31 |  |
| 00 | 662 | -59 | 2281 | 663 | -57 |  | 312 | 662 | -59 | 3 | 310 |
| 03 | 662 | -58 | 5278 | 663 | -58 | 5 | 317 | 662 | -58 | 3 | 296 |
| 06 | 663 | -58 | 4279 | 662 | -58 | 2 | 310 | 662 | -59 | 4 | 296 |
| 09 | 663 | -56 | 6277 | 662 | -58 | 3 | 322 | 661 | -59 | 4 | 300 |
| 12 | 664 | -55 | 4279 | 662 | -60 | 2 | 299 | 661 | -59 | 3 | 302 |
| 15 | 664 | -56 | 4293 | 662 | -59 |  | 312 | 661 | -59 |  | 302 |
| 18 | 664 | -56 | 4300 | 662 | -59 |  | 302 | 660 | -59 |  | 293 |
| 21 | 664 | -57 | 2322 | 662 | -58 |  | 295 | 660 | -59 | 2 | 296 |

PP TT VV DD DAY 4
667-50 4330
$666-50 \quad 6324$
$666-51 \quad 5327$
$\begin{array}{llll}665 & -50 & 5 & 315\end{array}$
$665-51 \quad 5330$
$\begin{array}{llll}664 & -51 & 3 & 327\end{array}$
$\begin{array}{llll}663 & -52 & 3 & 341\end{array}$
$663-52 \quad 3337$ DAY 11
658-53 4319
658-51 4310
659-50 5303
$660-49 \quad 5295$
660-51 3312
$660-50 \quad 5313$
$\begin{array}{llll}661 & -48 & 5 & 310\end{array}$
$661-48 \quad 6312$ DAY 18
662-52 4296
$\begin{array}{llll}662 & -53 & 3 & 300\end{array}$
$663-523293$
$664-524296$
$664-524302$
$\begin{array}{llll}665 & -51 & 5 & 302\end{array}$
$665-51 \quad 5296$
$665-51 \quad 5295$ DAY 25
669-66 5358
$\begin{array}{llll}669 & -66 & 5 & 5\end{array}$
$\begin{array}{llll}668 & -67 & 5 & 2\end{array}$
$\begin{array}{llll}668 & -67 & 5 & 5\end{array}$
$\begin{array}{llll}668 & -67 & 5 & 360\end{array}$
$\begin{array}{llll}667 & -67 & 6 & 360\end{array}$
$\begin{array}{llll}666 & -67 & 6 & 360\end{array}$
$\begin{array}{llll}666 & -67 \quad 6 & 360\end{array}$

| PP | TT | W | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |
| 663 | -52 | 2 | 324 | 669 | -50 | 3 | 279 |
| 664 | -52 | 1 | 298 | 669 | -50 | 3 | 292 |
| 664 | -54 | 1 | 288 | 669 | -50 | 4 | 289 |
| 666 | -54 | 3 | 268 | 669 | -49 | 4 | 300 |
| 667 | -53 | 3 | 275 | 669 | -49 | 5 | 302 |
| 668 | -53 | 3 | 270 | 668 | -50 | 5 | 307 |
| 668 | -53 | 2 | 275 | 668 | -50 | 5 | 312 |
| 669 | -50 | 3 | 282 | 667 | -50 | 5 | 312 |
|  | DAY | 12 |  |  | DAY | 13 |  |
| 60 | -48 | 7 | 307 | 656 | -44 | 6 | 279 |
| 660 | -46 | 7 | 302 | 656 | -46 | 4 | 291 |
| 659 | -47 | 7 | 302 | 657 | -46 | 3 | 277 |
| 658 | -44 | 9 | 306 | 658 | -49 | 3 | 288 |
| 657 | -44 | 7 | 298 | 659 | -51 | 2 | 299 |
| 657 | -45 | 5 | 288 | 661 | -51 | 2 | 309 |
| 657 | -47 | 6 | 292 | 662 | -51 | 0 | 0 |

DAY 20
$\begin{array}{llll}666 & -47 & 3 & 291\end{array}$
$665-46 \quad 4274$
665-47 4282
$\begin{array}{lll}665 & -48 & 389\end{array}$
$665-494282$
$\begin{array}{llll}665 & -51 & 3 & 281\end{array}$
$666-53 \quad 3292$
667-55 2285
DAY 27
$\begin{array}{lll}661 & -66 & 1341\end{array}$
$\begin{array}{llll}661 & -65 & 1 & 331\end{array}$
$\begin{array}{lll}661 & -64 & 2309\end{array}$
$\begin{array}{lll}662 & -64 & 2305\end{array}$
$\begin{array}{lll}662 & -64 & 2 \\ 306\end{array}$
$\begin{array}{lll}662 & -63 & 2300\end{array}$
662-62 2295
$\begin{array}{llll}662 & -61 & 3 & 292\end{array}$

PP TT VV DD
DAY 7
$666-48 \quad 5307$ $\begin{array}{llll}666 & -47 & 5 & 312\end{array}$ $\begin{array}{llll}665 & -50 & 7 & 326\end{array}$ $664-51 \quad 5340$ $663-517331$ $661-51 \quad 6329$ $\begin{array}{llll}660 & -52 & 4336\end{array}$ 660-52 3324 DAY 14

664-48 1357 664-47 00 $\begin{array}{llll}664 & -48 & 3 & 7\end{array}$ | 665 | -47 | 0 | 0 |
| :--- | :--- | :--- | :--- | $\begin{array}{rrrr}665 & -46 & 0 & 0 \\ 665 & -51 & 1 & 350\end{array}$ $\begin{array}{ccc}665 & -51 & 1350\end{array}$ $\begin{array}{llll}664 & -52 & 2 & 1\end{array}$ $664-53 \quad 6355$ DAY 21

668-56 2310
$669-57 \quad 2315$
$670-53 \quad 2281$
671-54 0 0
672-52 2262
672-51 1265
672-53 00
673-52 0
DAY 28
662-59 3291
$662-59 \quad 3286$
662-59 4305
$\begin{array}{llll}662 & -59 & 3 & 299\end{array}$
$661-58 \quad 4306$
$\begin{array}{llll}661 & -58 & 2 & 292\end{array}$
$\begin{array}{llll}661 & -58 & 3 & 295\end{array}$
$661-59 \quad 4295$

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-54.1$ StD dev $=6.1$ MAX $=-41.9$ at 320 GMT ON DAY 1 MIN $=-68.5$ at 2310 gmt on day 26
* theta (K) * MEAN $=246.22$
* PRESSURE (MB) * MEAN $=664.1$ STD DEV $=3.9$ MAX $=672.7$ AT 2000 GMT ON DAY 21 MIN $=656.2$ At 1650 GMT ON DAY 12
* WINDS (M/S) * MEAN $=3.7$ STD DEV $=1.8$ RESULTANT $=3.2$ FROM 323. CONSTANCY $=0.86$ MAX $=9.8$ FROM 8. AT 210 GMT DAY 24
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ \text { PERCENT: } & 16 & 43 & 31 & 7 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT


## APR 97

HR PP TT VV DD DAY 1

| 00 | 660 | -58 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}03 & 661 & -59 & 2300\end{array}$

| 06 | 661 | -59 | 2 |
| :--- | :--- | :--- | :--- |

$09 \quad 661-60 \quad 1293$
$\begin{array}{lllll}12 & 662 & -60 & 1 & 302\end{array}$
$\begin{array}{lllll}15 & 662 & -60 & 4 & 295\end{array}$
$\begin{array}{llll}18 & 662 & -61 & 2 \\ 300\end{array}$
$\begin{array}{llll}21 & 663 & -61 \quad 2309\end{array}$
DAY 8
$\begin{array}{llll}00 & 670 & -44 & 2\end{array}$

| 03 | 670 | -43 | 2 |
| :--- | :--- | :--- | :--- |


| 06 | 669 | -46 | 2 |
| :--- | :--- | :--- | :--- |

$09 \quad 669-46 \quad 2268$
$\begin{array}{llll}12 & 668 & -49 & 2\end{array} 298$
$\begin{array}{llll}15 & 667 & -48 & 2\end{array} 278$
$\begin{array}{lllll}18 & 667 & -47 & 0 & 0\end{array}$

| 21 | 666 | -47 | 2 |
| :--- | :--- | :--- | :--- | DAY 15

$\begin{array}{lllll}00 & 666 & -59 & 4 & 281\end{array}$
$\begin{array}{lllll}03 & 668 & -60 & 3 & 282\end{array}$

| 06 | 670 | -61 | 3 |
| :--- | :--- | :--- | :--- |

$09 \quad 671 \quad-60 \quad 4 \quad 279$
$\begin{array}{lllll}12 & 673 & -61 & 3 & 291\end{array}$
$\begin{array}{lllll}15 & 673 & -60 & 4 & 288\end{array}$
$\begin{array}{lllll}18 & 675 & -58 & 6 & 281\end{array}$
$\begin{array}{llll}21 & 676 & -56 & 4\end{array} 277$
DAY 22
$\begin{array}{lllll}00 & 665 & -56 & 4 & 291\end{array}$
$\begin{array}{lllll}03 & 664 & -57 & 4 & 299\end{array}$
$\begin{array}{llll}06 & 663 & -58 & 2\end{array} 307$
$\begin{array}{lllll}09 & 662 & -58 & 2 & 307\end{array}$
$\begin{array}{lllll}12 & 661 & -59 & 2 & 310\end{array}$
$\begin{array}{llll}15 & 660 & -62 & 2 \\ 319\end{array}$
$\begin{array}{lll}18 & 659 & -62\end{array}$
21 658-63
DAY 29
$\begin{array}{lllll}00 & 661 & -50 & 10 & 268\end{array}$
$\begin{array}{lllll}03 & 662 & -50 & 7 & 284\end{array}$
$\begin{array}{lllll}06 & 663 & -48 & 9 & 267\end{array}$
$\begin{array}{lllll}09 & 663 & -50 & 7 & 267\end{array}$
$\begin{array}{lllll}12 & 665 & -52 & 9 & 272\end{array}$
$\begin{array}{lllll}15 & 666 & -52 & 6 & 270\end{array}$
$\begin{array}{lllll}18 & 667 & -54 & 6 & 267\end{array}$
$\begin{array}{llll}21 & 667 & -54 & 7 \\ 271\end{array}$

PP TT VV DD DAY 2
663-62 3293
663-63 2305
$663-62 \quad 5303$
$\begin{array}{llll}665 & -61 & 1 & 274\end{array}$
666-62 1285
$\begin{array}{lll}667 & -59 & 281\end{array}$
668-59 3293
$670-60 \quad 2313$ DAY 9
666-46 0 0
$\begin{array}{llll}664 & -47 & 2 & 261\end{array}$
663-48 2271
$\begin{array}{llll}663 & -48 & 3 & 267\end{array}$
662-46 1291
$662-48 \quad 3268$
$661-49 \quad 4274$
661 -50 4277 DAY 16
677-57 4298
$\begin{array}{llll}678 & -57 & 5 & 298\end{array}$
678-56 5289
$679-53 \quad 4284$
679-52 6288
$679-51 \quad 6279$
$\begin{array}{llll}680 & -48 & 8 & 274\end{array}$
$681-4710272$ DAY 23
658-64
657-65
657-66
656-67
656-66
655-67
655-65
655-65
DAY 30
668-54 8268
$668-527278$
$668-527271$
$668-53 \quad 8 \quad 270$
668 -54 7272
$\begin{array}{lll}668 & -54 & 6 \\ 262\end{array}$
$\begin{array}{lll}668 & -54 & 5 \\ 267\end{array}$
$668-55 \quad 4 \quad 278$


660-65

PP TT VV DD PP TT VV DD DAY 4
$\begin{array}{llll}673 & -68 & 4 & 11\end{array}$
$\begin{array}{llll}674 & -68 & 5 & 7\end{array}$
$\begin{array}{llll}674 & -67 & 4 & 352\end{array}$
$\begin{array}{llll}675 & -68 & 3 & 352\end{array}$
$\begin{array}{llll}676 & -67 & 0 & 0\end{array}$
$\begin{array}{lll}677 & -65 & 1360\end{array}$
678-63 0
$679-62 \quad 1300$
DAY 11
$\begin{array}{llll}660 & -57 & 5 & 279\end{array}$
$660-56 \quad 4291$
$660-56 \quad 5291$
$660-54 \quad 6282$
$660-52 \quad 6281$
$660-50 \quad 7275$
660-53 6285
$660-52 \quad 6282$ DAY 18
$689-427254$
$690-44 \quad 6261$
$691-44 \quad 6243$
$\begin{array}{lll}692 & -44 & 4 \\ 272\end{array}$
692-46 2288

| 692 | -47 | 3 |
| :--- | :--- | :--- |

$\begin{array}{lll}691 & -45 & 3 \\ 302\end{array}$
$\begin{array}{llll}690 & -45 & 3 & 309\end{array}$
DAY 25
661-65
662-66
662-66
662-66
662-65
661-65
661-66
661-65

DAY 5
680-62 1289
$681-591285$
$\begin{array}{llll}682 & -57 & 3 & 281\end{array}$
$\begin{array}{llll}682 & -52 & 4278\end{array}$
$\begin{array}{llll}682 & -47 & 6 & 236\end{array}$
$\begin{array}{llll}682 & -47 & 7 & 243\end{array}$
$\begin{array}{llll}682 & -46 & 8 & 236\end{array}$
$\begin{array}{lll}682 & -45 & 5240\end{array}$ DAY 12
660-52 7279
$660-536298$
$\begin{array}{llll}660 & -55 & 8 & 291\end{array}$
$660-56 \quad 6 \quad 281$
$660-57 \quad 6279$
$\begin{array}{llll}660 & -56 & 6 & 274\end{array}$
$\begin{array}{llll}661 & -57 & 6 & 264\end{array}$
662 -60 4265 DAY 19
$689-49 \quad 5313$
$688-52 \quad 5323$
$\begin{array}{llll}688 & -53 & 4317\end{array}$
687 -54 6334
$686-54 \quad 4324$
685-55 6327
$685-55 \quad 6341$
$684-56 \quad 5.340$ DAY 26
661-66
661-66
$\begin{array}{llll}661 & -64 & 3 & 300\end{array}$
$\begin{array}{lll}661 & -62 & 291\end{array}$
661-62 1293
$\begin{array}{llll}661 & -63 & 2 & 302\end{array}$
$\begin{array}{llll}661 & -64 & 2 & 303\end{array}$
661-66 1316


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-55.5$ Std dev $=7.3$ MAX $=-40.0$ at 2250 GMT ON DAY 6 min $=-68.5$ at 420 gMt on day 4
* THETA (K) * MEAN $=244.22$
* PRESSURE (MB) * MEAN $=668.8$ STD DEV $=9.2$ MAX $=691.9$ at 1050 GMT ON DAY 18 MIN $=655.0$ at 1810 GMT ON DAY 23
* WINDS (M/S) * MEAN $=4.6$ STD DEV $=2.3$ RESULTANT $=3.9$ fROM 283. CONSTANCY $=0.86$ MAX $=12.7$ FROM 270. AT 1310 GMT DAY 17
* MISSING 3-hourly observations * temperature: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $11.7 \%$
 $\begin{array}{lllllllllllllllllllllllll}\text { PERCENT: } & 15 & 27 & 33 & 17 & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $\quad$ N $\quad$ NNE $\quad$ NE ENE $\quad$ E $\quad$ ESE $\quad$ SE $\quad$ SSE $\quad$ S $\quad$ SSW



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-58.1$ Std dev $=5.1$ max $=-46.0$ at 2120 GMt ON day 14 min $=-71.5$ at 1820 GMt on day 12
* THETA (K) * MEAN $=241.93$
* PRESSURE (MB) * MEAN $=663.0$ STD DEV $=6.5$ MAX $=674.0$ AT 1250 GMT ON DAY 17 MIN $=649.5$ AT 620 GMT ON DAY 12
* WINDS (M/S) * MEAN $=4.3$ STD DEV $=2.6$ RESULTANT $=3.7$ FROM 293. CONSTANCY $=0.86$ MAX $=17.0$ FROM 257. AT 2200 GMT DAY 14 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $5.2 \%$
 PERCENT: WIND direction: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 6 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 6 & 31 & 29 & 15 & 10\end{array}$

JUN 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 652 & -63 & 5 & 1\end{array}$ $\begin{array}{lllll}03 & 652 & -63 & 8 & 357\end{array}$ $\begin{array}{lllll}06 & 652 & -63 & 13 & 358\end{array}$
$\begin{array}{llllll}09 & 652 & -62 & 11 & 358\end{array}$
$\begin{array}{lllll}12 & 654 & -61 & 9 & 343\end{array}$
$\begin{array}{lllll}15 & 654 & -61 & 8 & 338\end{array}$
$\begin{array}{lllll}18 & 656 & -60 & 8 & 336\end{array}$
$\begin{array}{llll}21 & 657 & -60 & 9 \\ 322\end{array}$ DAY 8
$\begin{array}{llll}00 & 664 & -49 & 2343\end{array}$
$\begin{array}{lllll}03 & 664 & -54 & 2 & 16\end{array}$
$\begin{array}{lllll}06 & 663 & -53 & 3 & 352\end{array}$
$\begin{array}{lllll}09 & 663 & -54 & 2 & 338\end{array}$
$\begin{array}{lllll}12 & 662 & -56 & 3 & 14\end{array}$
$\begin{array}{lllll}15 & 662 & -58 & 4 & 357\end{array}$
$\begin{array}{lllll}18 & 661 & -58 & 1310\end{array}$
$21 \quad 661$-62 2343 DAY 15
00 658-64 0
$\begin{array}{llll}03 & 657 & -61 & 0\end{array}$
$\begin{array}{llll}06 & 657 & -63 & 2 \\ 282\end{array}$
$\begin{array}{llll}09 & 657 & -62 & 0\end{array} 0$
$\begin{array}{llll}12 & 657 & -64 & 0\end{array}$
$\begin{array}{lllll}15 & 656 & -64 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 656 & -67 & 1 & 326\end{array}$
$\begin{array}{lllll}21 & 656-70 \quad 1 & 21\end{array}$
DAY 22
$\begin{array}{lllll}00 & 697 & -47 & 4 & 277\end{array}$
$\begin{array}{lllll}03 & 696 & -47 & 4 & 281\end{array}$
$\begin{array}{llllll}06 & 696 & -47 & 3 & 282\end{array}$
$\begin{array}{lllll}09 & 695 & -44 & 4 & 296\end{array}$
$\begin{array}{lllll}12 & 693 & -45 & 5 & 338\end{array}$
$\begin{array}{llll}15 & 690 & -48 & 7 \\ 344\end{array}$
$\begin{array}{lllll}18 & 686 & -49 & 8 & 348\end{array}$
$\begin{array}{llll}21 & 682 & -50 & 8330\end{array}$
DAY 29
00 667-60
$03 \quad 667$-61
06 667-62
09 667-61
12 667-61
$\begin{array}{llll}15 & 666 & -61\end{array}$
18 665-65
$21 \quad 665$-66

PP TT VV DD PP TT WV DD DAY 2
$659-61 \quad 6333$
$661-61 \quad 6327$
662-60-6337
$663-58 \quad 8 \quad 326$
$664-56 \quad 6320$
$\begin{array}{llll}666 & -58 & 4 & 313\end{array}$
667-57 5306
668 -57 4296 DAY 9
659-63 $4 \quad 5$
$\begin{array}{llll}659 & -66 \quad 4341\end{array}$
658-66 3336
$\begin{array}{llll}657 & -67 & 1302\end{array}$
658-65 4289
658-65 5289
$659-62 \quad 5281$
660-59 3275
DAY 16
$\begin{array}{lll}656 & -67 & 2351\end{array}$
$\begin{array}{lll}657 & -67 & 1 \\ 281\end{array}$
657-69 3347
$\begin{array}{llll}657 & -67 & 3 & 344\end{array}$
657-66 6345
$\begin{array}{llll}658 & -62 \quad 5 & 316\end{array}$
$659-63 \quad 6306$ DAY 23
679-45 8329
$\begin{array}{llll}677 & -48 & 5 & 316\end{array}$
$\begin{array}{llll}676 & -47 & 5 & 291\end{array}$
$\begin{array}{llll}675 & -47 & 7 & 277\end{array}$
676-47 7270
$\begin{array}{llll}675 & -47 & 4 & 295\end{array}$
$\begin{array}{llll}674 & -43 & 5 & 299\end{array}$
674-43 6271
DAY 30
664-68
663-70
663 -70
$662-70$
661-71
661-70
661-68
660-68

| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP | TT | vv | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | day | 4 |  |  | DAY | 5 |  |  | day | 6 |  |  | DAY | 7 |  |
| 670 | -68 |  | 337 | 666 | -69 |  | 336 | 670 | -58 | 3 | 239 | 671 | -59 |  | 313 |
| 670 | -67 |  | 327 | 665 | -69 |  | 317 | 671 | -58 | 3 | 230 | 671 | -59 | 0 | 0 |
| 669 | -67 |  | 326 | 665 | -68 |  | 317 | 672 | -57 | 3 | 230 | 668 | -52 |  | 289 |
| 669 | -67 |  | 334 | 665 | -69 |  | 313 | 672 | -58 | 3 | 244 | 667 | -49 |  | 275 |
| 669 | -67 | 5 | 337 | 666 | -68 |  | 302 | 673 | -57 | 2 | 226 | 666 | -48 |  | 278 |
| 668 | -68 |  | 334 | 666 | -65 |  | 285 | 673 | -58 | 2 | 258 | 665 | -48 |  | 279 |
| 667 | -69 | 0 | 0 | 667 | -61 |  | 275 | 673 | -58 | 0 | 0 | 665 | -51 |  | 312 |
| 667 | -69 | 4 | 336 | 668 | -59 | 3 | 255 | 672 | -57 | 0 | 0 | 665 | -49 |  | 317 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 664 | -60 |  | 344 | 666 | -67 |  | 347 | 664 | -71 | 5 | 340 | 658 | -62 | 0 | 0 |
| 665 | -63 |  | 351 | 665 | -61 |  | 336 | 664 | -71 | 2 | 344 | 656 | -63 |  | 312 |
| 665 | -63 |  | 354 | 665 | -59 | 0 | 0 | 662 | -71 | 6 | 351 | 656 | -65 | 0 | 0 |
| 666 | -65 |  | 341 | 665 | -61 |  | 334 | 662 | -71 | 2 | 343 | 655 | -60 |  | 277 |
| 666 | -65 |  | 358 | 665 | -65 |  | 348 | 660 | -70 | 5 | 360 | 655 | -61 |  | 279 |
| 666 | -65 |  | 358 | 665 | -70 |  | 360 | 660 | -70 |  | 360 | 656 | -61 |  | 282 |
| 666 | -66 | 0 | 0 | 665 | -71 |  | 357 | 659 | -69 | 4 | 352 | 656 | -60 |  | 271 |
| 666 | -66 | 0 | 0 | 665 | -72 | 5 | 338 | 659 | -67 | 2 | 9 | 657 | -63 | 0 | 0 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 670 | -55 |  | 333 | 682 | -41 | 5 | 320 | 691 | -38 | 12 | 272 | 686 | -46 | 1 | 2 |
| 671 | -49 |  | 310 | 682 | -41 | 5 | 299 | 692 | -41 |  | 278 | 685 | -48 |  | 271 |
| 672 | -44 |  | 298 | 684 | -40 | 6 | 286 | 693 | -41 | 8 | 284 | 686 | -53 |  | 268 |
| 675 | -42 | 6 | 296 | 685 | -37 | 5 | 300 | 694 | -40 | 7 | 279 | 689 | -52 |  | 281 |
| 677 | -39 |  | 281 | 686 | -33 | 8 | 285 | 694 | -40 | 4 | 293 | 691 | -48 |  | 278 |
| 680 | -41 |  | 274 | 688 | -33 | 10 | 267 | 693 | -42 | 4 | 327 | 693 | -47 |  | 274 |
| 682 | -41 | 6 | 288 | 690 | -37 | 12 | 281 | 690 | -38 | 6 | 326 | 694 | -47 |  | 285 |
| 682 | -42 | 5 | 307 | 690 | -35 | 11. | 299 | 687 | -42 | 6 | 338 | 695 | -48 |  | 274 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 673 | -33 |  | 255 | 672 | -39 |  | 267 | 670 | -47 | 5 | 292 | 667 | -56 |  | 320 |
| 673 | -34 |  | 254 | 672 | -41 | 5 | 268 | 670 | -51 | 3 | 289 | 666 | -57 |  | 329 |
| 674 | -37 |  | 272 | 672 | -42 | 4 | 279 | 669 | -52 | 4 | 306 | 666 | -58 |  | 330 |
| 674 | -40 |  | 281 | 672 | -40 |  | 272 | 669 | -48 | 5 | 313 | 665 | -58 |  | 323 |
| 673 | -43 |  | 278 | 672 | -42 | 5 | 270 | 668 | -53 | 5 | 313 | 666 | -60 |  |  |
| 673 | -42 |  | 284 | 672 | -45 | 5 | 271 | 667 | -54 | 6 | 320 | 665 | -60 |  |  |
| 672 | -43 |  | 299 | 671 | -45 | 5 | 284 | 667 | -54 | 5 | 319 | 665 | -59 |  |  |
| 672 | -39 | 10 | 260 | 670 | -49 |  | 293 | 667 | -55 | 6 | 319 | 666 | -59 |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-56.0$ Std dev $=10.0$ max $=-30.2$ at 1340 GMT ON day 19 min $=-71.9$ at 2020 GMt ON DAY 12
* theta (K) * MEAN $=243.57$
* PRESSURE (MB) * MEAN $=668.9$ STD DEV $=10.2$ MAX $=696.6$ AT 10 GMT ON DAY 22 MIN $=651.4$ AT 120 GMT ON DAY 1
* WINDS (M/S) * MEAN $=4.5 \mathrm{STD}$ DEV $=2.7$ RESULTANT $=3.8$ fROM 306. CONSTANCY $=0.85 \mathrm{mAX}=15.2$ FROM 285. AT 2050 GMT DAY 19
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $11.2 \%$
 PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W UNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
10 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 4 & 24 & 20 & 18 & 21
\end{array}
$$

JUL 97
HR PP TT VV DD

|  |  | DAY | 1 |
| :--- | :--- | :--- | :--- |
| 00 | 660 | -69 |  |
| 03 | 660 | -70 |  |
| 06 | 660 | -68 |  |
| 09 | 660 | -68 |  |
| 12 | 660 | -68 |  |
| 15 | 659 | -69 |  |
| 18 | 660 | -69 |  |
| 21 | 660 | -70 |  |
|  |  | DAY | 8 |

00
03
06
06

| PP | TT |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 661 | -72 |  |  | 668 | -60 |  |  |
| 661 | -72 |  |  | 668 | -60 |  |  |
| 663 | -71 |  |  | 668 | -61 |  |  |
| 663 | -68 |  |  | 669 | -60 |  |  |
| 664 | -67 |  |  | 668 | -59 |  |  |
| 666 | -64 |  |  | 668 | -59 |  |  |
| 667 | -62 |  |  | 668 | -56 |  |  |
| 667 | -61 |  |  | 668 | -51 |  |  |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 657 | -43 |  |  | 646 | -56 | 9 | 40 |
| 656 | -45 |  |  | 644 | -55 | 10 | 52 |
| 655 | -42 |  |  | 642 | -56 | 9 | 36 |
| 654 | -39 | 7 | 49 | 640 | -70 | 9 | 32 |
| 652 | -44 | 5 | 39 | 639 | -74 | 7 | 12 |
| 651 | -49 | 6 | 28 | 638 | -76 | 4 | 28 |
| 651 | -55 | 5 | 21 | 638 | -77 | 3 | 36 |
| 649 | -57 | 7 | 43 | 638 | -78 | 2 | 37 |
|  | DAY | 16 |  |  | DAY | 17 |  |
| 666 | -60 | 6 | 274 | 669 | -65 |  |  |
| 667 | -61 |  |  | 668 | -67 |  |  |
| 667 | -61 |  |  | 667 | -66 |  |  |
| 668 | -61 |  |  | 666 | -65 | 1 | 296 |
| 669 | -61 |  |  | 665 | -66 |  |  |
| 669 | -61 |  |  | 663 | -67 |  |  |
| 669 | -62 |  |  | 661 | -67 |  |  |
| 669 | -64 |  |  | 660 | -69 |  |  |
|  |  | 23 |  |  |  | 24 |  |
| 652 | -71 |  |  | 659 | -70 |  |  |
| 653 | -70 |  |  | 660 | -70 |  |  |
| 653 | -71 |  |  | 660 | -69 |  |  |
| 654 | -70 |  |  | 661 | -68 |  |  |
| 655 | -70 |  |  | 661 | -66 |  |  |
| 656 | -71 |  |  | 662 | -66 |  |  |
| 657 | -71 |  |  | 661 | -71 |  |  |
| 658 | -70 |  |  | 661 | -71 |  |  |
|  | day 30 |  |  |  | DAY | 31 |  |
| 647 | -66 | 5 | 292 | 645 | -65 | 6 | 293 |
| 647 | -65 | 7 | 296 | 646 | -65 | 6 | 291 |
| 647 | -64 | 7 | 295 | 647 | -65 | 6 | 281 |
| 646 | -61 | 7 | 300 | 649 | -65 | 5 | 284 |
| 645 | -62 | 6 | 299 | 651 | -65 | 5 | 293 |
| 644 | -62 | 7 | 310 | 653 | -66 | 4 | 289 |
| 644 | -62 | 6 | 303 | 654 | -66 | 5 | 289 |
| 644 | -64 | 6 | 291 | 656 | -65 | 5 | 288 |



* temperature ( $C$ ) * mean $=-65.0$ Std dev $=7.3$ max $=-38.9$ at 830 GMT ON day 9 min $=-78.2$ at 2050 gmt on day 10
* theta (K) * MEAN $=234.63$
* PRESSURE (MB) * MEAN $=658.0$ STD DEV $=7.9$ MAX $=670.2$ at 1410 GMT ON DAY 4 MIN $=637.1$ AT 1940 GMT ON DAY 10
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $81.0 \%$ | WIND SPEED (M/S): | $0-2$ | $2-4$ | $4-6$ | $6-8$ | $8-10$ | $10-12$ | $12-14$ | $14-16$ | $16-18$ | $18-20$ | $20-25$ | $25-30$ | $30-35$ | $35-40$ | $40-45$ | $45-50$ | $50-55$ | $55-60$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | WIND DIRECTION: $N$ NNE NE ENE $\quad$ E ESE SE SSE $S$ SSW

PERCENT

AUG 97

HR PP TT WV DD DAY 1
$00 \quad 657-65 \quad 5293$ $\begin{array}{lllll}03 & 658 & -63 & 4 & 277\end{array}$ $\begin{array}{lllll}06 & 658 & -62 & 5 & 284\end{array}$ $\begin{array}{lllll}09 & 658 & -61 & 5 & 272\end{array}$
$\begin{array}{lllll}12 & 658 & -58 & 5 & 270\end{array}$
$\begin{array}{lllll}15 & 657 & -58 & 4 & 267\end{array}$
$\begin{array}{lllll}18 & 656 & -59 & 5 & 265\end{array}$
$\begin{array}{llll}21 & 656 & -64 & 3 \\ 271\end{array}$
DAY 8
$00 \quad 657$-64 6295
$\begin{array}{lllll}03 & 658 & -64 & 6 & 296\end{array}$
$\begin{array}{lllll}06 & 660 & -63 & 5 & 289\end{array}$
$\begin{array}{llll}09 & 661 & -61 & 6 \\ 274\end{array}$
$\begin{array}{llll}12 & 662 & -60 & 7272\end{array}$
$\begin{array}{lllll}15 & 663 & -57 & 8 & 268\end{array}$
$\begin{array}{llll}18 & 665 & -55 & 9 \\ 262\end{array}$
$\begin{array}{lllll}21 & 666 & -53 & 862\end{array}$ DAY 15
$\begin{array}{llll}00 & 677 & -62 & 5 \\ 295\end{array}$
$\begin{array}{lllll}03 & 676 & -61 & 4 & 300\end{array}$
$\begin{array}{lllll}6 & 675 & -61 & 4 & 293\end{array}$
$\begin{array}{lllll}09 & 674 & -60 & 5 & 300\end{array}$
$\begin{array}{lllll}12 & 672 & -60 & 4 & 298\end{array}$
$\begin{array}{llll}15 & 671 & -58 & 4 \\ 288\end{array}$
$\begin{array}{llll}18 & 669 & -59 & 4 \\ 296\end{array}$
$21 \quad 668$-59 5296
DAY 22

| 00 | 669 | -58 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 669 & -58 & 4 & 306\end{array}$
$\begin{array}{llll}06 & 669 & -59 & 4 \\ 291\end{array}$
$09 \quad 669$-59 5303
$\begin{array}{lllll}12 & 669 & -60 & 6 & 307\end{array}$
$\begin{array}{lllll}15 & 669 & -61 & 6 & 316\end{array}$
$\begin{array}{lllll}18 & 668 & -63 & 6 & 320\end{array}$
$\begin{array}{lllll}21 & 668 & -64 & 5 & 324\end{array}$ DAY 29
$\begin{array}{llll}00 & 657 & -63 & 3\end{array} 299$
$\begin{array}{lllll}03 & 658 & -63 & 3 & 299\end{array}$
$\begin{array}{lllll}06 & 658 & -61 & 3 & 293\end{array}$
$\begin{array}{lllll}09 & 658 & -63 & 3 & 300\end{array}$
$\begin{array}{lllll}12 & 658 & -63 & 1 & 302\end{array}$
$\begin{array}{lllll}15 & 659 & -63 & 2309\end{array}$
$\begin{array}{lllll}18 & 659 & -65 & 2 & 305\end{array}$
$\begin{array}{llll}21 & 660 & -65 \quad 2309\end{array}$

PP TT VV DD DAY 2
655-58 5257
$655-54 \quad 5248$
$654-54-5222$
$655-54 \quad 6219$
$\begin{array}{llll}655 & -57 & 4 & 237\end{array}$
655-55 6243
$654-5315232$
654-53 7239 DAY 9
667-52 9261
$667-507262$
$669-48 \quad 9248$
$669-4810260$
$\begin{array}{llll}670 & -47 & 9 & 246\end{array}$
$670-46 \quad 9251$
$671-4312232$
$673-4411232$
DAY 16
$667-58 \quad 4293$
$666-59 \quad 3291$
$\begin{array}{llll}665 & -58 & 4 & 295\end{array}$
$\begin{array}{llll}664 & -57 & 4 & 284\end{array}$
$\begin{array}{llll}664 & -56 & 3 & 275\end{array}$
$663-554284$
$663-54 \quad 4272$
$663-53 \quad 4274$
DAY 23
667-66 4324
$\begin{array}{llll}667 & -67 & 424\end{array}$
$\begin{array}{llll}666 & -65 & 4 & 322\end{array}$
665-65 $\quad 2309$
$\begin{array}{llll}665 & -66 & 3 & 305\end{array}$
$\begin{array}{llll}664 & -65 & 4 & 303\end{array}$
$\begin{array}{llll}664 & -66 & 3 & 303\end{array}$
664-65 5298
DAY 30
660-67
$661-68$
661 -67
662-69
662-68
662-68
663-68
663-68

PP TT VV DD DAY 3
$653-526254$
$651-516255$
$650-52 \quad 6255$
$649-5116243$
$649-527261$
$648-51 \quad 18253$
$648-5016258$
648 -50 8261
DAY 10
675-46 9233
$\begin{array}{lll}677 & -48 & 274\end{array}$
$679-52 \quad 3275$
$680-52 \quad 5 \quad 275$
$\begin{array}{lll}681 & -51 & 4282\end{array}$
$682-50 \quad 5278$
$\begin{array}{lll}682 & -52 & 391\end{array}$
$683-524291$ DAY 17
$663-53 \quad 6275$
$\begin{array}{ll}662 & -56\end{array} 4282$
$663-56 \quad 5271$
663-57 4277
$663-55 \quad 6262$
$663-55 \quad 4272$
$663-54 \quad 5260$
662-56 4268
DAY 24
$\begin{array}{lll}664 & -65 \quad 4305\end{array}$
$\begin{array}{llll}664 & -66 & 2 & 323\end{array}$
664-68 1317
664-68
663-69
663-70
663 -69
662-70
DAY 31
663-67
$\begin{array}{llll}663 & -67 & 3 & 296\end{array}$
663-67
664-66
664-66
664-67
665-67
$665 \quad-64 \quad 3279$

PP TT WV DD DAY 5
$654-51 \quad 17281$
$655-5210285$
$656-53 \quad 9285$
$656-54 \quad 8286$
$\begin{array}{llll}656 & -53 & 9 & 278\end{array}$
$656-557293$
$656-56 \quad 8291$
$656-567292$ DAY 12
$681-50 \quad 5307$
679-50 4310
$677-49 \quad 5333$
676-51 5317
$673-51 \quad 7333$
$670-5511330$
$\begin{array}{llll}668 & -57 & 8 & 337\end{array}$
$666-60 \quad 7320$ DAY 19
665-52
665-51
$666-52$
$666-52$
$667-52$
$666-53$
$667-54$
667 -56
DAY 26
662-65 5293
662-65 4299
$\begin{array}{llll}662 & -65 & 4 & 306\end{array}$
$661-62 \quad 4306$
661-61 4324
660 $-62 \quad 5324$
$659-63 \quad 7324$
$658-597307$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-58.9$ STD DEV $=6.1$ MAX $=-42.8$ AT 1850 GMT ON DAY 9 MIN $=-72.0$ at 910 GMT ON DAY 25
* THETA (K) * MEAN $=241.00$
* PRESSURE (MB) * MEAN $=663.1$ STD DEV $=8.7$ MAX $=683.8$ at 410 GMT ON DAY 11 MIN $=647.5$ AT 1750 GMT ON DAY 3
* WINDS (M/S) * MEAN $=5.7$ STD DEV $=3.1$ RESULTANT $=5.1$ fRON 283. CONSTANCY $=0.89$ MAX $=19.5$ FROM 274. AT 800 GMT DAY 4
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $16.5 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{llllllllllllllllllllllll}\text { PERCENT: } & 3 & 28 & 39 & 14 & 10 & 2 & 0 & 1 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ HIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 10 & 22 & 43 & 16 & 5\end{array}$


* TEMPERATURE (C) * MEAN $=-59.8$ STD DEV $=9.3$ MAX $=-36.6$ AT 1610 GMT ON DAY 25 MIN $=-76.9$ AT 830 GMT ON DAY 13
* THETA (K) * MEAN $=239.67$
* PRESSURE (MB) * MEAN $=665.5$ STD DEV $=9.0$ MAX $=685.4$ AT 1010 GMT ON DAY 25 MIN $=644.2$ AT 510 GMT ON DAY 14
* WINDS (M/S) * MEAN $=4.9$ STD DEV $=2.5$ RESULTANT $=3.8$ FROM 310. CONSTANCY $=0.77$ MAX $=17.4$ FROM 274 . AT 510 GMT DAY 16
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: 0.0 \% WINDS: $10.4 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED }(M / S): ~ & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 60 \\ \text { PERCENT: } & 9 & 29 & 33 & 17 & 8 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PERCENT

OCT 97 HR PP TT VV DD PP TT VV DD

|  |  | DAY | 1 |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 670 | -60 | 3 | 285 |
| 03 | 670 | -57 | 3 | 277 |
| 06 | 671 | -55 | 2 | 274 |
| 09 | 672 | -54 | 3 | 274 |
| 12 | 673 | -51 |  |  |
| 15 | 674 | -51 |  |  |
| 18 | 674 | -52 |  |  |
| 21 | 675 | -50 |  |  |
|  |  | DAY | 8 |  |
| 00 | 677 | -56 | 6 | 322 |
| 03 | 676 | -55 | 7 | 327 |
| 06 | 675 | -56 | 7 | 327 |
| 09 | 675 | -55 | 6 | 320 |
| 12 | 674 | -54 | 8 | 309 |
| 15 | 674 | -53 | 6 | 306 |
| 18 | 674 | -52 | 6 | 306 |
| 21 | 673 | -52 | 7 | 312 | DAY 15

$00 \quad 669-54$
$03 \quad 669$-53
$06 \quad 668$-56
$09 \quad 669-53$
$\begin{array}{llll}12 & 668 & -53\end{array}$
$\begin{array}{llll}15 & 668 & -53\end{array}$
$\begin{array}{lll}18 & 668 & -54\end{array}$
$21 \quad 668$-56

## DAY 22

$\begin{array}{lllll}00 & 654 & -58 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 655 & -56 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 656 & -57 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 657 & -56 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 659 & -55 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 660 & -55 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 662 & -53 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 663 & -55 & 0\end{array}$ DAY 29
$\begin{array}{lllll}00 & 659 & -48 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 658 & -50 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 658 & -52 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 657 & -48 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 657 & -47 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 656 & -49 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 656 & -50 & 0 & 0\end{array}$
$\begin{array}{lllll}21 & 656 & -47 & 0 & 0\end{array}$
$676-48$
676-51
677-50
$676-46$
676-49
677-46
677-45
676-48
DAY 9
673-51 9309
673-49 6298
$\begin{array}{llll}674 & -49 & 8 & 303\end{array}$
$674-46 \quad 6291$
$674-46 \quad 8 \quad 303$
$674-48 \quad 7319$
$674-48 \quad 7312$
$674-48 \quad 8 \quad 302$
DAY 16
668 -56
667-55
667-57
667-54
667-54
666-54 0
666-54 0 0
666-54 0 0
DAY 23
664-55 0 0
665-55 0 0
665-56 00
$\begin{array}{llll}666 & -51 & 0 & 0\end{array}$
$666-5200$
$666-50 \quad 0 \quad 0$
$\begin{array}{llll}667 & -50 & 0 & 0\end{array}$
$666-50 \quad 0 \quad 0$
DAY 30
$655-4600$
$654-5100$
654-52 0
$654-4800$
$653-4500$
$653-4500$
652-48 00
651-50 00


| PP | TT | WV | DD |
| :--- | :--- | :--- | :--- |
| DAY | 5 |  |  |
| 670 | -55 |  |  |
| 670 | -56 |  |  |
| 669 | -54 |  |  |
| 669 | -53 |  |  |
| 669 | -52 |  |  |
| 670 | -56 |  |  |
| 670 | -58 |  |  |
| 670 | -60 |  |  |


| PP | TT WV | DD |  |
| :--- | :--- | :--- | :--- |
|  | DAY | 6 |  |
| 671 | -58 |  |  |
| 672 | -57 |  |  |
| 672 | -59 |  |  |
| 674 | -58 |  |  |
| 675 | -57 |  |  |
| 676 | -59 |  |  |
| 677 | -60 |  |  |
| 678 | -58 |  |  |

PP TTV DD DAY 7
678-57
679-56
679-59
679-59
679-58
$\begin{array}{llll}678 & -57 & 7 & 337\end{array}$
$\begin{array}{llll}677 & -57 & 8 & 340\end{array}$
$677-57 \quad 6336$ DAY 14
668-51 3324
668-52 2324
$\begin{array}{llll}668 & -53 & 324\end{array}$
668-48
668-50
668 -51
668-52
669-53
DAY 21
655-53 0 0
654-54 0 0
654-57 0 0
653-55 0 0
653-56 0 0
653-55 0 0
653-54 0 0
654-57 0 0
DAY 28
662-50 0
661-51 0 0
661-52 0
$\begin{array}{ccc}661 & -50 & 0 \\ 0 & 0\end{array}$
$\begin{array}{llll}660 & -47 & 0 & 0\end{array}$
$\begin{array}{llll}660 & -47 & 0 & 0\end{array}$
$\begin{array}{ccc}659 & -50 & 0\end{array} 0$
659-50 0 0

* TEMPERATURE (C) * MEAN $=-52.0$ STD DEV $=3.6$ MAX $=-40.9$ AT 850 GMT ON DAY 3 MIN $=-60.5$ AT 1730 GMT ON DAY 6
* theta (K) * MEAN $=248.44$
* PRESSURE (MB) * MEAN $=666.4$ STD DEV $=7.6$ MAX $=679.0$ AT 900 GMT ON DAY 7 MIN $=650.7$ AT 400 GMT ON DAY 31
* WINDS (M/S) * MEAN $=1.7$ STD DEV $=2.6$ RESULTANT $=1.6$ FROM 312. CONSTANCY $=0.93 \mathrm{mAX}=9.8$ FROM 305. AT 2300 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $27.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W UNW NW NNW $\begin{array}{lllllllllllllllll} & 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 5 & 40 & 29 & 21\end{array}$

NOV 97


00

00
-32 5281
$\begin{array}{llll}688 & -31 & 3 & 274\end{array}$

| 06 | 688 | -32 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}09 & 689 & -30 & 2 \\ 284\end{array}$
$\begin{array}{llll}12 & 690 & -31 & 2 \\ 298\end{array}$

| 15 | 690 | -29 | 1 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}18 & 691 & -29 & 1 & 312\end{array}$
$\begin{array}{llll}21 & 692 & -30 & 1309\end{array}$

$$
\text { DAY } 15
$$

| 0 | 688 | -32 | 6 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}03 & 689 & -31 & 7 \\ 261\end{array}$
$\begin{array}{lllll}06 & 690 & -30 & 7 & 268\end{array}$
$\begin{array}{lllll}09 & 690 & -31 & 6 & 271\end{array}$
$\begin{array}{llll}2 & 690 & -32 & 5 \\ 284\end{array}$
$\begin{array}{lllll}15 & 690 & -32 & 5 & 271\end{array}$

| 18 | 690 | -32 | 5 |
| :--- | :--- | :--- | :--- |


| 21 | 690 | -32 | 5 |
| :--- | :--- | :--- | :--- | DAY 22


| 00 | 690 | -27 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}03 & 690 & -28 & 3 \\ 288\end{array}$
$06 \quad 691-28 \quad 4298$
$\begin{array}{llll}09 & 691 & -27 & 7 \\ 292\end{array}$
$\begin{array}{llll}12 & 691 & -27 & 6 \\ 289\end{array}$
$\begin{array}{lllll}15 & 691 & -27 & 7 & 282\end{array}$
$\begin{array}{llll}18 & 692 & -27 & 5 \\ 279\end{array}$
$\begin{array}{llll}21 & 692-296279\end{array}$ DAY 29
$\begin{array}{lllll}00 & 677 & -24 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 677 & -27 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 678 & -31 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 678 & -25 & 0 & 0\end{array}$
12 679-29 0 0
$\begin{array}{lllll}15 & 680 & -30 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 680 & -31 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 681 & -31 \quad 2320\end{array}$

PP TT VV DD PP TT VV DD

$$
\text { DAY } 2
$$

655-48 0
655-48 0
656-49 0 0
656-48 0
657-47 0 0
$\begin{array}{llll}658 & -47 & 0 & 0\end{array}$
$658-48 \quad 0 \quad 0$
$\begin{array}{llllllll}660 & -49 & 0 & 0 & 670 & -43 & 0 & 0\end{array}$
DAY 9
692-31 1352
$\begin{array}{llll}692 & -34 & 1357\end{array}$
692-32 1322
692-28 1336
692-30 130
692-32 2350
692-29 0 0
691-29 0 0 DAY 16
690-32 4286
689-31 $\quad 3 \quad 307$
$688-31 \quad 4303$
688-31 6293
687-29 4 282
687-28 5277
686-29 6298
686 -28 6285 DAY 23
693-29 6 282
693-28 4265
$694-27 \quad 6 \quad 257$
$694-26 \quad 4291$
$694-27 \quad 4306$
693-28 4323
693-28 4312
692-29-5310 DAY 30
682-30 2310
682-29 1277
683-27 1258
683-24 1282
684-25 4268
684-24 6267
684-25 5268
684-27 6275

DAY 3
661-49 0 0
662-47 0
$664-46 \quad 0 \quad 0$
$\begin{array}{llll}665 & -45 & 0 & 0\end{array}$
667-43 0
668-43 0 0
$\begin{array}{llll}669 & -43 & 0 & 0\end{array}$
DAY 10
$\begin{array}{llll}691 & -33 & 3 & 11\end{array}$
$\begin{array}{llll}690 & -34 & 4 & 360\end{array}$
$\begin{array}{llll}690 & -34 & 6 & 338\end{array}$
$\begin{array}{llll}690 & -35 & 7 & 348\end{array}$
$\begin{array}{llll}689 & -35 & 6 & 351\end{array}$
$\begin{array}{llll}688 & -35 & 7 & 357\end{array}$
687-37 8352
$\begin{array}{lllll}686 & -38 & 8 & 347\end{array}$ DAY 17
$\begin{array}{llll}686 & -29 & 9 & 284\end{array}$
$\begin{array}{llll}686 & -30 & 6 & 277\end{array}$
686-30 7293
687-29 6285
687-28 6289
688-29 6279
689-29 $\quad 5284$
689-29 7286 DAY 24
692-29 5320
$691-29 \quad 6315$
$691-29 \quad 6323$
$690-28 \quad 6336$
$\begin{array}{llll}690 & -28 & 5 & 331\end{array}$
$\begin{array}{llll}689 & -29 & 7 & 329\end{array}$
689-29 5316
689-29 5322

PP TT VV DD. PP TT VV DD

| DAY | 4 |  |  |
| :---: | :---: | :---: | :---: |
| 671 | -43 | 0 | 0 |

$\begin{array}{llll}673 & -43 & 0 & 0\end{array}$
674-43 00
675-41 0 0
676-41 0
677-40 00
677-40 0
$\begin{array}{llllllll}678 & -41 & 0 & 0 & 681 & -37 & 5 & 285\end{array}$
DAY 11
685-38 9343
$\begin{array}{llll}685 & -38 & 9 & 333\end{array}$
$\begin{array}{llll}684 & -39 & 7336\end{array}$
$\begin{array}{llll}683 & -38 & 7320\end{array}$
$\begin{array}{llll}683 & -37 & 6315\end{array}$
$\begin{array}{llll}682 & -37 & 6324\end{array}$
$\begin{array}{llll}682 & -37 & 5 & 317\end{array}$
$682-37 \quad 5310$

$$
\text { DAY } 18
$$

689-30 $\quad 5296$
$689-30 \quad 4303$
$689-31 \quad 6 \quad 292$
$690-30 \quad 5286$
$\begin{array}{llll}690 & -30 & 4 & 279\end{array}$
690-31 $\quad 3298$
691-31 4282
692-31 3278 DAY 25
689-29 3312
689-29 5327
$689-30 \quad 6336$
689-28 $\quad 5331$
$689-28 \quad 5333$
689-28 4334
688-29 3351
$688-30 \quad 5354$

DAY 5
678-40 0
679-40 $\quad 0 \quad 0$
679-41 00
680-39 00
$\begin{array}{llll}681 & -39 & 0 & 0\end{array}$
$\begin{array}{llll}681 & -38 & 0 & 0\end{array}$
681-36 6271 DAY 12
683-37 5315
682-37 6309
$\begin{array}{llll}682 & -38 & 5 & 303\end{array}$
$\begin{array}{llll}683 & -35 & 7 & 260\end{array}$
$\begin{array}{lllllll}682 & -37 & 6 & 312 & 684 & -35 & 6 \\ 260\end{array}$
$\begin{array}{llllllll}682 & -36 & 5 & 310 & 685 & -35 & 6 & 254\end{array}$
$\begin{array}{llllllll}682 & -36 & 6 & 300 & 686 & -36 & 5 & 267\end{array}$
$\begin{array}{lllllll}682 & -35 & 6 & 291 & 686 & -34 & 5 \\ 251\end{array}$

| 682 | -35 | 5 | 292 | 687 | -33 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | DAY 20

692-31 3333
691-32 4345
$690-32 \quad 4345$
$\begin{array}{lll}689 & -31 & 5 \\ 319\end{array}$
$689-30 \quad 4320$
$\begin{array}{llll}688 & -30 & 5 & 323\end{array}$
$\begin{array}{llll}688 & -30 & 3 & 322\end{array}$
688 -31 4324
DAY 27
680-30 5323
678-30 6326
677-30 6322
676-30 5322
675-29 3320
675-29 2296
674-28 2292
$674-30 \quad 4250$

PP TT VV DD DAY 7
$686-266275$
$686-29 \quad 5300$
$687-31 \quad 4300$
$686-30 \quad 5320$
686-31 4329
$\begin{array}{llll}686 & -31 & 6 & 316\end{array}$
686-32 4300
686 -32 $\quad 5 \quad 277$
DAY 14
687-34 5300
687-33 $\quad 5310$
$\begin{array}{llll}686 & -35 & 5 & 303\end{array}$
686-32 6285
686-32 5286
686-32 5279
686-32 $\quad 5 \quad 282$
687-33 7274
DAY 21
$688-30 \quad 5313$
688-30 4293
$688-26 \quad 4279$
$\begin{array}{llll}689 & -26 & 3 & 309\end{array}$
689-27 2312
689-27 5292
$\begin{array}{lll}689 & -28 & 3 \\ 278\end{array}$
$689-27 \quad 5270$
DAY 28
675-28 4241
$\begin{array}{lll}675 & -28 & 2\end{array} 254$
$675-28 \quad 5 \quad 246$
676-29 3241
676-29 2264
676-30 1257
$\left.\begin{array}{cccc}676 & -29 & 0 & 0 \\ 676 & -27 & 0 & 0\end{array} \right\rvert\,$ MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-32.9$ std dev $=6.2$ max $=-22.9$ at 2220 GMt on day 28 min $=-52.2$ at 520 GMt on day 1
* THETA (K) * MEAN $=267.96$
* PRESSURE (MB) * MEAN $=683.0$ STD DEV $=9.7$ MAX $=694.1$ AT 1050 GMT ON DAY 23 MIN $=652.2$ AT O GMT ON DAY 1
* WINDS (M/S) * MEAN $=3.8$ STD DEV $=2.4$ RESULTANT $=3.3$ FROM 300. CONSTANCY $=0.88 \mathrm{MAX}=10.7$ FROM 350. AT 1720 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\left.\begin{array}{llllllllllllllllll}\text { PERCENT: } & 28 & 15 & 40 & 14 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}\right)$
PERCENT

$$
\begin{array}{llllllllllllllll}
5 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 5 & 25 & 28 & 22 & 14
\end{array}
$$

DEC 97
HR PP TT VV DD

|  |  | DAY | 1 |
| :--- | :--- | :--- | :--- |
| 00 | 684 | -27 | 4 |

$\begin{array}{lllll}03 & 683 & -27 & 4 & 281\end{array}$
$\begin{array}{llll}06 & 683 & -28 & 4 \\ 286\end{array}$
$\begin{array}{llll}09 & 682 & -27 & 5 \\ 306\end{array}$
$\begin{array}{llll}12 & 681 & -27 & 5 \\ 316\end{array}$
$\begin{array}{lllll}15 & 680 & -26 & 4 & 312\end{array}$
$\begin{array}{lllll}18 & 680 & -25 & 3 & 279\end{array}$
$\begin{array}{llll}21 & 680 & -25 & 265\end{array}$ DAY 8
$\begin{array}{llll}00 & 673 & -28 & 3\end{array} 296$
$\begin{array}{lllll}03 & 672 & -26 & 3 & 267\end{array}$
$\begin{array}{lllll}06 & 673 & -27 & 6 & 293\end{array}$
$\begin{array}{lllll}09 & 673 & -26 & 4 & 296\end{array}$
$\begin{array}{lllll}12 & 674 & -27 & 3 & 327\end{array}$
$\begin{array}{lllll}15 & 674 & -28 & 3 & 347\end{array}$

| 18 | 674 | -29 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}21 & 673 & -29 & 2351\end{array}$ DAY 15
$\begin{array}{lllll}00 & 674 & -28 & 3 & 358\end{array}$
$\begin{array}{lllll}03 & 674 & -27 & 4 & 344\end{array}$
$\begin{array}{lllll}06 & 675 & -28 & 2 & 331\end{array}$
$\begin{array}{llll}09 & 675 & -25 & 2\end{array} 319$
$12 \quad 676-26 \quad 3270$
$\begin{array}{lllll}15 & 677 & -28 & 3 & 258\end{array}$
$\begin{array}{llll}18 & 677 & -27 & 1329\end{array}$
$\begin{array}{llll}21 & 678 & -29 & 2360\end{array}$ DAY 22
$\begin{array}{llll}00 & 683 & -21 & 1\end{array} 35$
$\begin{array}{lllll}03 & 683 & -22 & 1 & 45\end{array}$
$\begin{array}{lllll}06 & 683 & -24 & 2 & 43\end{array}$
$\begin{array}{lllll}09 & 683 & -22 & 2 & 40\end{array}$
$\begin{array}{lllll}12 & 684 & -23 & 3 & 19\end{array}$
$\begin{array}{lllll}15 & 684 & -23 & 2 & 57\end{array}$
$\begin{array}{lllll}18 & 684 & -24 & 3 & 36\end{array}$
$\begin{array}{lllll}21 & 684 & -23 & 2 & 4\end{array}$
DAY 29
$\begin{array}{lllll}00 & 678 & -24 & 5 & 354\end{array}$
$\begin{array}{llll}03 & 677 & -24 & 6341\end{array}$
$\begin{array}{lllll}06 & 676 & -24 & 5 & 344\end{array}$
$\begin{array}{lllll}09 & 676 & -23 & 7 & 305\end{array}$
$\begin{array}{lllll}12 & 677 & -23 & 4 & 305\end{array}$
$\begin{array}{llllll}15 & 677 & -23 & 5 & 312\end{array}$
$\begin{array}{lllll}18 & 677 & -23 & 3 & 291\end{array}$
$\begin{array}{llll}21 & 677 & -23 \quad 4319\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{lll}680 & -26 & 4 \\ 257\end{array}$
$\begin{array}{lll}681 & -26 & 3 \\ 257\end{array}$
682-28-2 261
683-27 3254
683-27 3262
684-28 2244
685-27 2196
686 -28 3237 DAY 9
673-29 2354
$\begin{array}{llll}673 & -28 & 1 & 12\end{array}$
673-30 1360
672-28 1343
672-27 2320
672-27 1310
$672-28 \quad 2315$
672-27 1299
DAY 16
677-29 3347
677-28 2313
678-29 2315
678-27-2316
$\begin{array}{llll}677 & -28 & 3 & 316\end{array}$
676-28 3341
$\begin{array}{llll}675 & -27 & 5 & 340\end{array}$
$675-25 \quad 4281$ DAY 23
685-21 111
685-22 2254
685-23 2275
685-21 00
685-23 1344
$\begin{array}{llll}685 & -23 & 3 & 5\end{array}$
685-26 3348
$685-25 \quad 4337$
DAY 30
677-23 3309
677-23 4323
676-24 3313
676-24 6343
$675-23 \quad 5300$
674-23 4291
$\begin{array}{llll}674 & -23 & 3 & 292\end{array}$
$675-24 \quad 3 \quad 237$

DAY 3
686-27 0 0
686-26 2278
$\begin{array}{llll}686 & -26 & 4 & 270\end{array}$
$686-26 \quad 1288$
$\begin{array}{lll}686 & -26 & 1288\end{array}$
$686-26 \quad 1275$
686-29 2254
686-27 0
DAY 10
671-26 1295
671-26 0
671-29 0 0
671-26 0 0
672-26 0 0
672-23 0 0
672-25 0 0
673-22 0
DAY 17
675 -27 6271
$\begin{array}{llll}674 & -26 & 3 & 288\end{array}$
$\begin{array}{llll}674 & -25 & 5 & 288\end{array}$
$673-26 \quad 8 \quad 275$
$\begin{array}{llll}674 & -27 & 8 & 250\end{array}$
$\begin{array}{llll}675 & -28 & 7 & 247\end{array}$
$\begin{array}{llll}676 & -28 & 3 & 255\end{array}$
676-28 2268
DAY 24
685-23 2300
$\begin{array}{lll}685 & -23 & 2309\end{array}$
685-24 2313
686-22 2322
686-22 3333
$\begin{array}{llll}686 & -24 & 3 & 340\end{array}$
$\begin{array}{llll}686 & -24 & 3 & 331\end{array}$
686-25 3350
DAY 31
676-25 4246
677-26 4267
678-26 2226
679-23 2286
680-22 1293
680-23 4302
$\begin{array}{llll}680 & -23 & 3 & 310\end{array}$
680-22 2303

| PP |  | VV | DD | PP | ti | V | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | day | 6 |  |  | Day | 7 |  |
| 686 | -25 | 0 | 0 | 681 | -27 | 4 | 360 | 674 | -29 | 4 | 35 | 676 | -27 | 1 | 54 |
| 686 | -23 | 0 | 0 | 680 | -27 | 3 | 360 | 673 | -30 | 5 | 23 | 675 | -28 | 1 | 52 |
| 685 | -28 | 0 | 0 | 679 | -28 | 3 | 30 | 674 | -30 | 3 | 18 | 675 | -28 | 1 | 57 |
| 685 | -26 | 1 | 43 | 678 | -28 | 5 | 37 | 674 | -29 | 3 | 26 | 675 | -25 | 0 | 0 |
| 684 | -27 | 1 | 12 | 677 | -28 | 5 | 23 | 674 | -28 | 3 | 30 | 675 | -26 | 0 | 0 |
| 683 | -28 | 1 | 22 | 675 | -30 | 6 | 33 | 675 | -28 | 3 | 30 | 674 | -27 | 0 | 0 |
| 683 | -29 | 3 | 21 | 674 | -29 | 7 | 22 | 675 | -29 | 3 | 29 | 674 | -27 | 1 | 18 |
| 682 | -27 | 4 | 4 | 674 | -29 | 5 | 39 | 675 | -29 | 2 | 36 | 673 | -28 | 0 | 0 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 673 | -23 | 0 | 0 | 676 | -30 | 3 | 16 | 671 | -28 | 6 | 4 | 671 | -26 | 1 | 291 |
| 673 | -25 | 0 | 0 | 676 | -29 | 3 | 9 | 670 | -28 | 5 | 1 | 672 | -26 | 2 | 292 |
| 674 | -28 | 0 | 0 | 676 | -30 | 4 | 12 | 669 | -28 | 4 | 352 | 673 | -26 | 2 | 285 |
| 674 | -25 | 0 | 0 | 676 | -29 | 5 | 19 | 669 | -27 | 5 | 344 | 673 | -26 |  | 315 |
| 67 | -27 | 0 | 0 | 675 | -29 | 5 | 22 | 668 | -26 | 4 | 326 | 674 | -27 | 2 | 319 |
| 675 | -28 | 1 | 26 | 674 | -29 | 6 | 15 | 669 | -26 | 2 | 317 | 674 | -28 | 2 | 338 |
| 676 | -29 | 1 | 23 | 673 | -29 |  | 360 | 669 | -26 | 2 | 299 | 674 | -28 | 3 | 330 |
| 676 | -30 | 2 | 18 | 672 | -29 | 5 | 360 | 670 | -26 | 3 | 279 | 674 | -28 | 3 | 347 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 67 | -29 | 4 | 251 | 674 | -25 | 4 | 288 | 674 | -22 | 5 | 258 | 683 | -23 | 3 | 261 |
| 677 | -29 | 3 | 282 | 673 | -25 | 4 | 299 | 675 | -22 | 4 | 251 | 683 | -22 | 3 | 289 |
| 677 | -29 | 4 | 316 | 672 | -24 | 5 | 295 | 676 | -23 | 8 | 234 | 683 | -23 | 3 | 284 |
| 677 | -28 | 3 | 298 | 671 | -23 | 6 | 293 | 679 | -24 | 8 | 244 | 683 | -22 | 2 | 305 |
| 676 | -27 | 6 | 272 | 671 | -22 | 5 | 271 | 680 | -25 | 5 | 243 | 683 | -18 | 0 | 0 |
| 675 | -27 | 4 | 267 | 672 | -23 |  | 274 | 681 | -23 | 5 | 296 | 682 | -19 | 1 | 60 |
| 675 | -25 | 7 | 277 | 672 | -23 |  | 271 | 681 | -23 | 5 | 307 | 682 | -18 | 0 | 0 |
| 675 | -26 | 6 | 272 | 673 | -23 |  | . 267 | 683 | -23 | 4 | 253 | 682 | -18 |  | 333 |
|  | DAY | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 686 | -25 | 3 | 357 | 680 | -25 |  | 326 | 683 | -25 | 4 | 230 | 685 | -26 | 5 | 18 |
| 685 | -26 | 3 | 345 | 679 | -25 |  | 315 | 683 | -25 | 3 | 239 | 684 | -25 | 4 | 5 |
| 685 | -26 | 5 | 358 | 679 | -26 |  | 305 | 684 | -25 | 2 | 262 | 683 | -25 | 4 | 360 |
| 684 | -25 | 6 | 350 | 679 | -24 |  | 302 | 685 | -22 | 1 | 216 | 682 | -24 | 4 | 354 |
| 683 | -25 | 5 | 351 | 680 | -23 |  | 288 | 685 | -22 | 2 | 354 | 681 | -24 | 4 | 358 |
| 682 | -25 | 5 | 338 | 680 | -23 |  | 292 | 685 | -25 |  | 360 | 680 | -24 | 5 | 347 |
| 681 | -25 |  | 345 | 681 | -24 |  | 268 | 685 | -26 | 4 | 11 | 679 | -24 |  | 334 |
| 681 | -25 | 4 | 331 | 682 | -24 |  | 239 | 685 | -26 | 4 | 19 | 679 | -24 |  | 347 |

* temperature ( $C$ ) * mean $=-25.6$ Std dev $=2.4$ MAX $=-17.1$ at 1300 GMT ON dAY 21 MIN $=-30.4$ at 520 gmt ON day 6
* theta (K) * MEAN $=276.66$
* PRESSURE (MB) * MEAN $=678.1$ STD DEV $=4.9$ MAX $=686.3$ at 720 GMT ON DAY 3 MIN $=668.3$ AT 1210 GMT ON DAY 13
* WINDS (M/S) * MEAN $=3.1 \mathrm{STD}$ DEV $=1.8$ RESULTANT $=2.1$ fROM 317. CONSTANCY $=0.70$ MAX $=10.7$ FROM 270 . AT 840 GMT DAY 17 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{lllllllllllllllllllll} \\ \text { PERCENT: } & 30 & 40 & 24 & 5 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{llllllllllllllll}13 & 12 & 5 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 9 & 13 & 16 & 14 & 14\end{array}$

JAN 97

| HR | PP |  |  | DD | PP | TT |  | DD | PP | TT | VV | DD | PP |  | VV | DD ${ }^{\text {d }}$ | PP | TT | V | DD | PP | TT | VV | DD | PP | TT | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 981 | -1 | 5 | 68 | 981 | -2 | 6 | 136 | 978 | -3 | 5 | 113 | 980 | -3 | 5 | 189 | 983 | -6 | 6 | 182 | 981 | -8 | 7 | 172 | 972 | -7 | 8 | 191 |
| 03 | 981 | -2 | 4 | 46 | 981 | -3 | 7 | 151 | 979 | -3 | 5 | 118 | 981 | -4 | 5 | 201 | 984 | -7 | 5 | 189 | 980 | -10 | 5 | 205 | 971 | -9 | 7 | 194 |
| 06 | 982 | -3 | 4 | 112 | 980 | -3 | 6 | 151 | 979 | -4 | 5 | 133 | 981 | -4 | 6 | 185 | 984 | -8 | 8 | 181 | 979 | -12 | 5 | 212 | 971 | -10 | 8 | 194 |
| 09 | 982 | -2 | 3 | 31 | 980 | -3 | 7 | 150 | 979 | -4 | 4 | 146 | 982 | -5 | 6 | 195 | 984 | -9 | 6 | 188 | 979 | -12 | 5 | 189 | 971 | -9 | 9 | 201 |
| 12 | 983 | -3 | 5 | 102 | 979 | -2 | 6 | 123 | 980 | -3 | 6 | 164 | 983 | -5 | 6 | 201 | 984 | -8 | 7 | 195 | 977 | -10 | 6 | 189 | 972 | -8 | 11 | 201 |
| 15 | 982 | -1 | 6 | 6119 | 978 | -1 | 6 | 120 | 979 | -2 | 5 | 172 | 983 | -3 | 5 | 177 | 983 | -7 | 6 | 178 | 975 | -8 | 8 | 192 | 972 | -8 | 10 | 210 |
| 18 | 981 | 0 | 7 | 120 | 978 | -1 | 5 | 119 | 979 | -2 | 4 | 181 | 983 | -4 | 5 | 178 | 982 | -7 | 8 | 174 | 974 | -6 | 8 | 192 | 972 | -6 | 10 | 191 |
| 21 | 981 | -1 | 5 | 106 | 978 | -1 | 5 | 120 | 979 | -3 | 5 | 185 | 983 | -4 | 5 | 181 | 981 | -8 | 7 | 187 | 972 | -6 | 10 | 192 | 972 | -6 | 10 | 198 |
|  |  | DAY | 8 | 8 |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 973 | -6 | 10 | 203 | 977 | -7 | 11 | 220 | 982 | -3 | 4 | 278 |  |  |  |  | 979 | -1 | 7 | 49 | 977 | -1 | 9 | 11 | 977 | -1 | 7 | 189 |
| 03 | 973 | -8 | 11 | 208 | 977 | -7 | 12 | 206 | 983 | -5 | 5 | 323 | 983 | -4 | 3 | 66 | 978 | -1 | 7 | 59 | 977 | -1 | 9 | 11 | 978 | -1 | 9 | 199 |
| 06 | 973 | -8 | 12 | 203 | 978 | -7 | 8 | 225 | 983 | -5 | 4 | 310 | 983 | -4 | 5 | 66 | 977 | -1 | 8 | 35 | 978 | -1 | 5 | 26 | 979 | -1 | 7 | 198 |
| 09 | 974 | -8 | 9 | 201 | 979 | -6 | 8 | 226 | 984 | -5 | 4 | 317 | 983 | -3 | 4 | 80 | 977 | 0 | 7 | 19 | 978 | -1 | 2 | 98 | 981 | -1 | 9 | 191 |
| 12 | 976 | -8 | 12 | 213 | 980 | -5 | 7 | 253 | 984 | -4 | 4 | 322 | 983 | -1 | 7 | 28 | 976 | 0 | 9 | 14 | 977 | 0 | 3 | 111 | 983 | -1 | 10 | 184 |
| 15 | 976 | -7 | 13 | 201 | 980 | -4 | 6 | 267 | 983 | -3 | 3 | 338 | 982 | 0 | 5 | 45 | 976 | 0 | 11 | 5 | 976 | 1 | 4 | 161 | 985 | 0 | 13 | 191 |
| 18 | 976 | -7 | 12 | 208 | 981 | -3 | 5 | 300 | 983 | -3 | 3 | 348 | 981 | 0 | 9 | 46 | 976 | 0 | 8 | 8 | 976 | 1 | 5 | 171 | 986 | 1 | 9 | 185 |
| 21 | 977 | -7 | 12 | 216 | 982 | -3 | 5 | 296 | 983 | -3 | 3 | 351 | 980 | -1 | 7 | 46 | 976 | -1 | 9 | 9 | 976 | 0 | 6 | 175 | 987 | 0 | 10 | 203 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  |  | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 988 | -1 | 10 | 199 | 988 | -1 | 7 | 22 | 988 | -1 | 0 | 0 | 995 | -4 | 11 | 210 | 995 | -7 | 6 | 236 | 988 | -5 | 5 | 322 | 989 | -7 | 1 | 156 |
| 03 | 989 | -1 | 8 | 8199 | 989 | -2 | 6 | 12 | 989 | -2 | 0 | 0 | 996 | -7 | 8 | 206 | 994 | -11 | 4 | 267 | 988 | -9 | 2 | 302 | 989 | -10 | 1 | 209 |
| 06 | 990 | -2 | 6 | 6210 | 989 | -2 | 8 | 33 | 990 | -4 | 5 | 225 | 997 | -7 | 10 | 205 | 993 | -12 | 3 | 271 | 989 | -9 | 1 | 1 | 993 | -11 | 6 | 198 |
| 09 | 990 | -2 | 4 | 4192 | 989 | -1 | 7 | 19 | 992 | -7 | 2 | 262 | 998 | -7 | 7 | 201 | 993 | -11 | 3 | 278 | 989 | -9 | 0 | 0 | 995 | -11 | 6 | 194 |
| 12 | 990 | -1 | 3 | 3196 | 989 | -1 | 4 | 30 | 991 | -3 | 8 | 255 | 998 | -7 | 5 | 205 | 992 | -7 | 3 | 279 | 989 | -6 | 2 | 22 | 993 | -9 | 4 | 181 |
| 15 | 989 | 1 | 2 | 2135 | 988 | -1 | 5 | 40 | 992 | -3 | 8 | 219 | 996 | -4 | 7 | 220 | 991 | -5 | 5 | 278 | 989 | -1 | 2 | 360 | 991 | -9 | 5 | 180 |
| 18 | 988 | 2 | 2 | 268 | 988 | 0 | 7 | 35 | 992 | -1 | 9 | 219 | 995 | -4 | 7 | 210 | 990 | -3 | 4 | 265 | 988 | -2 | 3 | 180 | 990 | -9 | 6 | 150 |
| 21 | 987 | -1 | 5 | 58 | 987 | -1 | 3 | 21 | 994 | -3 | 10 | 219 | 995 | -5 | 7 | 210 | 989 | -3 | 3 | 307 | 990 | -5 | 5 | 153 | 989 | -10 | 4 | 160 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  |  | 26 |  |  |  | 27 |  |  | DAY | 28 |  |
| 00 | 989 | -10 | 2 | 2177 | 991 | -10 | 6 | 188 | 986 | -11 | 4 | 222 | 982 | -6 | 4 | 49 | 985 | -4 | 0 | 0 | 988 | -4 | 2 | 168 | 991 | -3 | 5 | 45 |
| 03 | 988 | -10 | 3 | 3189 | 991 | -12 | 4 | 210 | 987 | -13 | 2 | 212 | 981 | -6 | 4 | 19 | 986 | -4 | 0 | 0 | 989 | -3 | 1 | 163 | 991 | -4 | 5 | 46 |
| 06 | $988{ }^{\circ}$ | -10 | 4 | 4178 | 991 | -17 | 2 | 202 | 986 | -13 | 2 | 175 | 982 | -5 | 3 | 14 | 987 | -5 | 1 | 202 | 989 | -4 | 3 | 87 | 992 | -5 | 3 | 54 |
| 09 | 988 | -10 | 5 | 5171 | 991 | -15 | 4 | 203 | 986 | -12 | 0 | 0 | 982 | -4 | 1 | 16 | 988 | -4 | 4 | 182 | 990 | -4 | 3 | 59 | 992 | -3 | 5 | 14 |
| 12 | 989 | -10 | 5 | 5177 | 990 | -11 | 4 | 206 | 986 | -10 | 2 | 54 | 983 | -3 | 2 | 14 | 988 | -4 | 4 | 46 | 990 | -4 | 3 | 56 | 992 | -3 | 4 | 28 |
| 15 | 989 | -8 | 6 | 6165 | 988 | -10 | 7 | 175 | 984 | -9 | 3 | 71 | 983 | -2 | 2 | 23 | 988 | -3 | 2 | 60 | 990 | -2 | 4 | 355 | 991 | -1 | 5 | 26 |
| 18 | 989 | -9 |  | 6168 | 987 | -9 | 6 | 188 | 983 | -7 | 4 | 57 | 983 | -3 | 3 | 61 | 987 | -3 | 2 | 97 | 990 | -1 | 5 | 21 | 990 | -1 | 6 | 8 |
| 21 | 990 | -10 | 4 | 4187 | 987 | -10 | 4 | 185 | 982 | -6 | 5 | 18 | 983 | -3 | 1 | 350 | 987 | -3 | 2 | 122 | 990 | -2 | 7 | 32 | 990 | -1 | 6 | 14 |
|  |  | DAY |  | $9$ |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 990 | -2 | 4 | 430 | 996 | -5 | 3 | 213 | 998 | -3 | 1 | 213 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 991 | -3 | 4 | 48 | 997 | -6 | 0 | 0 | 998 | -4 | 3 | 189 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 992 | -3 | 2 | 235 | 998 | -5 | 0 | 0 | 998 | -5 | 5 | 172 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 993 | -3 | 2 | 225 | 998 | -5 | 2 | 250 | 999 | -7 | 7 | 185 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 993 | -2 | 2 | 2333 | 999 | -4 | 2 | 262 | 999 | -8 | 5 | 177 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 993 | -2 | 2 | 2281 | 998 | -4 | 2 | 262 | 998 | -8 | 9 | 203 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 994 | -2 |  | 3208 | 998 | -3 | 1 | 281 | 998 | -8 | 6 | 194 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 995 | -3 |  | 3212 | 998 | -3 | 3 | 222 | 998 | -7 |  | 205 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-4.6$ STD DEV $=3.5$ MAX $=2.4$ AT 1750 GMT ON DAY 15 MIN $=-17.1$ AT 700 GMT ON DAY 23
* THETA (K) * MEAN $=269.66$
* PRESSURE (MB) * MEAN $=985.4$ STD DEV $=7.0$ MAX $=998.9$ AT 1040 GMT ON DAY 31 MIN $=971.0$ AT 230 GMT ON DAY 7
* WINDS (M/S) * MEAN $=5.2$ STD DEV $=2.8$ RESULTANT $=2.0$ FROM 186. CONSTANCY $=0.38$ MAX $=13.4$ FROM 203. AT 910 GMT DAY 8 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$


PERCENT

$$
\begin{array}{llllllllllllllll}
5 & 10 & 6 & 5 & 2 & 5 & 2 & 5 & 19 & 23 & 5 & 1 & 5 & 1 & 3 & 1
\end{array}
$$

HR PP TT VV DD DAY 1

| 00 | 998 | -11 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}03 & 998 & -15 & 2\end{array}$
$\begin{array}{llll}06 & 999 & -19 & 295\end{array}$
$091000-11 \quad 2272$
$\begin{array}{llll}12 & 999 & -9 & 2\end{array}$
$\begin{array}{lllll}15 & 998 & -7 & 3 & 296\end{array}$
18
$\begin{array}{lllll}21 & 997 & -5 & 6 & 323\end{array}$ DAY 8
$\begin{array}{lllll}00 & 986 & -15 & 1 & 223\end{array}$
$\begin{array}{lllll}03 & 985 & -17 & 2 & 172\end{array}$
$\begin{array}{llll}06 & 985 & -17 & 2\end{array} 154$
$\begin{array}{lllll}09 & 984 & -19 & 3 & 154\end{array}$
$\begin{array}{lllll}12 & 983 & -14 & 5 & 157\end{array}$
$\begin{array}{lllll}15 & 983 & -12 & 5 & 142\end{array}$
$\begin{array}{lllll}18 & 981 & -11 & 5 & 161\end{array}$
$\begin{array}{llll}21 & 981 & -11 & 5 \\ 192\end{array}$ DAY 15
$00 \quad 993-15 \quad 6 \quad 171$
$\begin{array}{lllll}03 & 993 & -14 & 5 & 168\end{array}$
$\begin{array}{lllll}06 & 992 & -15 & 4 & 139\end{array}$
$\begin{array}{lllll}09 & 991 & -14 & 4 & 132\end{array}$
$\begin{array}{lllll}12 & 990 & -13 & 3 & 109\end{array}$
$\begin{array}{lllll}15 & 988 & -11 & 3 & 136\end{array}$
$\begin{array}{lllll}18 & 987 & -10 & 3 & 171\end{array}$
$\begin{array}{llll}21 & 987 & -11 & 7 \\ 234\end{array}$ DAY 22
$00 \quad 991-23 \quad 5 \quad 223$
$\begin{array}{lllll}03 & 993 & -30 & 5 & 182\end{array}$
$\begin{array}{lllll}06 & 994 & -33 & 3 & 284\end{array}$
$\begin{array}{lllll}09 & 994 & -31 & 3 & 295\end{array}$
$\begin{array}{lllll}12 & 995 & -27 & 3 & 288\end{array}$
$\begin{array}{llll}15 & 994 & -23 & 285\end{array}$
18 994-19 3292
$\begin{array}{llll}21 & 994 & -19 & 3\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{lll}998 & -9 & 4313\end{array}$ 1001-10 5219 1002-16. 5212 1004-12 6222

1004-12 6225 1003-11 9196 1003-12 9209 DAY 9
982-13 5198 982-18 6205 983-20 6203 984-21 6210 985-19 7203 986-17 8202 986-15 9202 987-16 8209 DAY 16
986-12 6225 $\begin{array}{llll}986 & -12 & 7 & 219\end{array}$ $987-1411219$ 988-17 11213 989-17 12205 $989-1612209$ 990 -16 12205 991-17 12206 DAY 23 995-26 2160 995-31 2127 $\begin{array}{llll}995 & -33 & 1 & 104\end{array}$ $\begin{array}{llll}994 & -32 & 2 & 90\end{array}$ $\begin{array}{llll}993 & -27 & 2 & 98\end{array}$ 992-23 295 990-19 4125 989-18 $4 \quad 95$

DAY 3
1003-12 6206
1001-11 13210
1000-13 13184
1001-16 10175
1001-12 10194
$\begin{array}{llll}1000 & -9 & 10 & 189\end{array}$
1000-10 10203
$999-10 \quad 7205$
DAY 10
987-15 9208
987-16 12210
987-18 10220
988-20 11223
989-19 15220
989-17 13208
988-17 15216
989-17 16225 DAY 17
993 -18 11212
993-19 12196
994-19 9202
$995-20 \quad 9195$
996-19 7182
996-19 $8 \quad 182$
$\begin{array}{llll}996 & -18 & 5194\end{array}$
996-18 7187 DAY 24
989-18 $3 \quad 95$
987-19 4127
987-19 2161
987-19 3156
988-18 2161
988-14 1136
988-15 3135
$989-17 \quad 3120$

\[

\]

PP TT VV DD DAY 5
996-16 6219
994-19 5220
994 -20 6210
994-20 8201
993-18 9199
993 -17 10189
992-16 9201
992-17 9191 DAY 12
986-14
985-20
984-13
983-12 $6 \quad 15$
$\begin{array}{llll}982 & -9 & 9 & 14\end{array}$
$\begin{array}{llll}982 & -8 & 7 & 4\end{array}$
$\begin{array}{llll}983 & -7 & 3 & 344\end{array}$
$\begin{array}{llll}983 & -7 & 3 & 345\end{array}$ DAY 19
995-22 3246
995-26 3230
995-29 3220
995 -30 1265
995-27 2240
$\begin{array}{llll}994 & -24 & 0 & 0\end{array}$
993-19 0
991-21 263
DAY 26
1004-29 9201
1003-28 8206
1004-27 8198
1004-27 7206
1003-28 7222
1002-28 6222
1001-27 4225
999-26 4229

PP TT VV DD DAY 6
992-17 8196
992-16 10208
992-18 10198
992-16 11189
992 -15 10194
991-12 8205
990-12 7198
$989-12 \quad 3208$ DAY 13
983-8
$983-9$
$\begin{array}{ll}982 & -9\end{array}$
$981-8$
$\begin{array}{llll}981 & -6 & & \\ 982 & -6 & 4 & 198\end{array}$
$\begin{array}{llll}982 & -7 & 7 & 178\end{array}$
$\begin{array}{llll}984 & -7 & 6 & 181\end{array}$ DAY 20
990 -25 366
$\begin{array}{llll}989 & -24 & 4 & 68\end{array}$
$\begin{array}{llll}988 & -19 & 3 & 78\end{array}$
987-17 174
$\begin{array}{llll}987 & -17 & 510\end{array}$
986-17 4208
986-19 8182
986-19 6191 DAY 27
997-26 5257
$\begin{array}{llll}995 & -24 & 3 & 262\end{array}$
994-24 0
993-22 3250
992-22 1217
992-22 3243
991 -20 4243
991 -19 4251

PP TT VV DD DAY 7
988-17 2219
987-21 1208
988-23 1203
988-22 1270
988-16 3229
987-14 4216
987-13 4205
986-13 3205 DAY 14
$\begin{array}{llll}985 & -9 & 6 & 198\end{array}$
987-12 4192
988-13 6188
989-14 3196
990-13 5182
991-12 5174
991-12 5185
992-13 5178

## DAY 21

986-19 5187
986-19 4205
$\begin{array}{lll}987 & -18 & 6 \\ 208\end{array}$
987-20 8208

| 989 | -25 | 3 |
| :--- | :--- | :--- |

989-23 6230
990-22 6239
990 -20 5247
DAY 28
992-19 3277
991-19 2289
$\begin{array}{llll}991 & -18 & 3 & 337\end{array}$
990-16 $\quad 2347$
$\begin{array}{llll}990 & -16 & 3 & 360\end{array}$
$\begin{array}{llll}989 & -17 & 51\end{array}$
988-16 95
987-17 $\quad 8 \quad 5$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-17.4$ Std dev $=5.8$ max $=-4.5$ at 1900 GMT ON day 1 min $=-33.9$ at 720 GMt on day 22
* THETA (K) * MEAN $=256.43$
* PRESSURE (MB) * MEAN $=991.4$ STD DEV $=5.7$ MAX $=1004.5$ AT 920 GMT ON DAY 2 MIN $=981.1$ AT 1120 GMT ON DAY 13 * WINDS (M/S) * MEAN $=5.8$ STD DEV $=3.4$ RESULTANT $=4.5$ FROM 206. CONSTANCY $=0.78$ MAX $=18.9$ FROM 219. AT 1810 GMT DAY 10 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \%$ WINDS: $4.9 \%$
 PERCENT:

0 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 2 & 1 & 0 & 2 & 2 & 1 & 4 & 5 & 12 & 34 & 18 & 7 & 3 & 4 & 1 & 2\end{array}$

MAR 97


$989-294233$
$989-31 \quad 4 \quad 208$
$\begin{array}{llll}989 & -32 & 310\end{array}$
$990-31 \quad 3251$
$990-28 \quad 2219$
$990-25 \quad 2243$
991 -25 0
DAY 11
969-33
968-34
968-36
969-36
$\begin{array}{llll}970 & -32 & 7219\end{array}$
$971-32 \quad 9210$
$\begin{array}{llll}971 & -31 & 712\end{array}$
973 -34 15196

$$
\text { DAY } 18
$$

971-27 8 205
$970-276233$
$970-29 \quad 5 \quad 237$
969-30
968-29
968-26
967-23
966-22
DAY 25
990-31
990-31
990-32
991 -32
991-32
991-31
990-25
989-26

PP TT WV DD DAY 6
988-18 5360
986-15 6345
984-15 4351
984-15 1307
982-14 25
$\begin{array}{llll}979 & -12 & 2 & 18\end{array}$
$\begin{array}{llll}976 & -10 & 4 & 19\end{array}$
73-10 4 59
DAY 13
975-26
975-29
975-29
976-28
978-25 6199
$979-26 \quad 6194$
$\begin{array}{llll}981 & -26 & 6 & 178\end{array}$
982 -26 8182 DAY 20
965-24 6201
965-22 8199
$\begin{array}{lll}965 & -22 & 7198\end{array}$
$\begin{array}{llll}966 & -23 & 8198\end{array}$
967-24 10203
968-23 11196
970-24 8210
971-25 10217
DAY 27
988-30
987-28
987-31
$989-33 \quad 987-24$
$988-30 \quad 988-26$
989-28
990-27
990-28
MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-24.6$ Std dev $=6.4$ MAX $=-1.1$ at 450 GMT ON dAy 16 min $=-36.2$ at 730 GMt on day 11
* theta (K) * MEAN $=249.93$
* PRESSURE (MB) * MEAN $=980.5$ STD DEV $=8.8$ MAX $=994.0$ at 1200 GMT ON DAY 5 MIN $=957.1$ at 610 GMT ON DAY 19
* WINDS (M/S)* MEAN $=7.4$ STD DEV $=4.1$ RESULTANT $=5.5$ FROM 207. CONSTANCY $=0.75$ MAX $=22.4$ FROM 199. AT 320 GMT DAY 17
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $\mathbf{4 3 . 1 \%}$
$\begin{array}{lrrrrrrrrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 4 & 20 & 19 & 18 & 11 & 9 & 13 & 4 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

PERCENT
$\begin{array}{llllllllllllllll}5 & 6 & 4 & 1 & 0 & 0 & 1 & 0 & 7 & 45 & 16 & 8 & 2 & 1 & 2 & 1\end{array}$

| HR | PP | TT | VV DD | PP | TT | VV | D D | PP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  | DAY | 2 | 2 |  | DAY | 3 |
| 00 | 990 | -37 |  |  |  |  |  | 1001 | -34 |  |
| 03 | 991 | -39 |  |  |  |  |  | 1002 | -32 |  |
| 06 | 991 | -39 |  |  |  |  |  | 1003 | -34 |  |
| 09 | 991 | -40 |  |  |  |  |  | 1004 | -37 |  |
| 12 | 992 | -41 |  |  |  |  |  | 1006 | -39 |  |
| 15 | 993 | -39 |  |  |  |  |  | 1007 | -37 |  |
| 18 | 993 | -37 |  | 999 | -33 |  |  | 1009 | -38 |  |
| 21 |  |  |  | 1000 | -34 |  |  | 1009 | -38 |  |
|  |  | DAY | 8 |  | DAY | 9 | 9 |  | DAY | 10 |
| 00 | 989 | -31 |  | 986 | -33 |  |  | 972 | -18 |  |
| 03 | 988 | -31 |  | 984 | -35 |  |  | 971 | -18 |  |
| 06 | 987 | -31 |  | 983 | -36 |  |  | 970 | -19 |  |
| 09 | 987 | -32 |  | 982 | -36 |  |  | 970 | -24 |  |
| 12 | 986 | -32 |  | 980 | -34 |  |  | 971 | -27 |  |
| 15 | 986 | -32 |  | 979 | -29 |  |  | 972 | -30 |  |
| 18 | 986 | -32 |  | 976 | -24 |  |  | 974 | -29 |  |
| 21 | 986 | -33 |  | 973 | -20 |  |  | 977 | -30 |  |
|  |  | DAY | 15 |  | DAY | 16 |  |  | DAY | 17 |
| 00 | 974 | -33 |  | 977 | -29 |  |  | 980 | -25 |  |
| 03 | 975 | -34 |  | 976 | -29 |  |  | 980 | -24 |  |
| 06 | 976 | -34 |  | 975 | -26 |  |  | 979 | -24 |  |
| 09 | 977 | -34 |  | 975 | -24 |  |  | 978 | -24 |  |
| 12 | 978 | -35 |  | 976 | -25 |  |  | 978 | -25 |  |
| 15 | 978 | -33 |  | 978 | -23 |  |  | 979 | -25 |  |
| 18 | 978 | -29 |  | 979 | -24 |  |  | 980 | -24 |  |
| 21 | 977 | -28 |  | 980 | -24 |  |  | 982 | -24 |  |
|  |  | DAY | 22 |  | DAY | 23 |  |  | DAY | 24 |
| 00 | 998 | -26 |  | 996 | -36 |  |  | 993 | -29 |  |
| 03 | 997 | -24 |  | 996 | -37 |  |  | 993 | -30 |  |
| 06 | 996 | -24 |  | 996 | -38 |  |  | 993 | -31 |  |
| 09 | 996 | -25 |  | 995 | -37 |  |  | 994 | -32 |  |
| 12 | 996 | -26 |  | 995 | -32 |  |  | 995 | -28 |  |
| 15 | 997 | -28 |  | 995 | -30 |  |  | 996 | -28 |  |
| 18 | 996 | -33 |  | 994 | -31 |  |  | 997 | -31 |  |
| 21 | 996 | -35 |  | 993 | -30 |  |  | 999 | -35 |  |
|  |  | DAY | 29 |  | DAY | 30 |  |  |  |  |
| 00 | 985 | -36 |  | 997 | -43 | 10 | 196 |  |  |  |
| 03 | 987 | -37 |  | 998 | -43 | 10 | 198 |  |  |  |
| 06 | 988 | -37 |  | 998 | -43 | 9 | 194 |  |  |  |
| 09 | 989 | -39 |  | 997 | -43 | 13 | 196 |  |  |  |
| 12 | 991 | -38 |  | 997 | -40 | 11 | 196 |  |  |  |
| 15 | 993 | -39 | 8196 | 997 | -39 | 11 | 196 |  |  |  |
| 18 | 994 | -40 | 9189 | 997 | -38 | 14 | 198 |  |  |  |
| 21 | 996 | -42 | 9195 | 996 |  |  | 199 |  |  |  |




* temperature ( $C$ ) * mean $=-30.8$ Std dev $=6.9$ max $=-18.2$ at 0 GMT ON day 10 min $=-47.0$ at 800 gmt on day 25
* theta (K) * MEan $=243.10$
* PRESSURE (MB) * MEAN $=989.4$ STD DEV $=10.7$ MAX $=1010.7$ at 0 GMT ON DAY 4 MIN $=969.5$ AT 850 GMT ON DAY 10
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.9 \%$ PRESSURE: $2.9 \%$ WINDS: $89.6 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
-218-

* TEMPERATURE (C) * MEAN $=-28.1$ STD DEV $=6.0$ MAX $=-10.4$ AT 1500 GMT ON DAY 29 MIN $=-42.6$ AT 2230 GMT ON DAY 18
* THETA (K) * MEAN $=246.00$
* PRESSURE (MB) * MEAN $=986.7$ STD DEV $=10.3$ MAX $=1008.3$ AT 1410 GMT ON DAY 27 MIN $=960.0$ AT 630 GMT ON DAY 10
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $96.4 \%$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

JUN 97


|  | DAY |
| :--- | ---: |
| 00 | 983 |

$03 \quad 984-24$
06 985-28
09 987-27
$12 \quad 991$-29
15 994-32
18 996-33
21 997-32
DAY 8
00 996-31
03 994-27
06 992-24
09 988-21
12 984-16
$\begin{array}{lllll}15 & 982 & -12 & 14 & 215\end{array}$
18 988-22
21 990-24
DAY 15
$\begin{array}{llll}00 & 983 & -14 & 10 \\ 220\end{array}$
$\begin{array}{lll}03 & 984 & -23\end{array}$
06 986-28
09 988-31
$\begin{array}{lll}12 & 989 & -34\end{array}$
$\begin{array}{llll}15 & 991 & -35\end{array}$
18 992-35
21 991-31
DAY 22
$\begin{array}{lll}00 & 998 & -30\end{array}$
$\begin{array}{lll}03 & 998 & -30\end{array}$
06 998-24
09 998-28
12 997-28
15 996-28
18 995-28
21 996-29
DAY 29
00 1008-38
031008 -40
061008 -41
$091007-41$
121007 -41
15 1007-39
18 1007-39
21 1007-38
 DAY 30
1007-37
1006-38
1006-39
1006-44
1006-47
1006-48
1005-49
1006-50



PP TT WV DD DAY 7
1011-31
1010-32
1009-34
1009-34
1007-34
1005-33
1003-33
999-33
DAY 14
995-26
997-30
999-30
997-29
993-24
987-13
986-10 9230
984-13 7237
DAY 21
1000-42
1001-43
1001-37
1001-35
999-29
999-26
998-27
998-26
DAY 28
1008-39
1008-42
1008-43
1009-45
1009-43
1009-40
1008-39
1008-38

* temperature ( $C$ ) * mean $=-33.3$ Std dev $=7.4$ MAX $=-9.5$ at 1420 GMT ON DAY 8 min $=-50.6$ at 2340 GMt ON DAY 30
* theta (K) * MEAN $=239.93$
* PRESSURE (MB) * MEAN $=998.5$ STD dEV $=7.8$ MAX $=1012.0$ at 1300 GMT ON DAY 26 MIN $=980.1$ at 1840 GMT ON DAY 9
 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ UINDS: $98.3 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

JUL 97


* TEMPERATURE ( $C$ ) * MEAN $=-35.7$ STD DEV $=9.6$ mAX $=-11.8$ AT 1530 GMT ON DAY 6 MIN $=-52.8$ AT 940 GMT ON DAY 28
* theta (K) * MEAN $=238.39$
* PRESSURE (MB) * MEAN $=986.8$ STD DEV $=11.6$ maX $=1007.5$ at 1420 GMT ON DAY 1 min $=959.1$ at 140 GMt ON DAY 31
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { UNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

AUG 97
HR PP TT VV DD DAY 1
$\begin{array}{lll}00 & 985 & -40\end{array}$
$\begin{array}{lll}03 & 988 & -38\end{array}$
$\begin{array}{lll}06 & 990 & -39\end{array}$
$\begin{array}{lll}09 & 993 & -40\end{array}$
$\begin{array}{lll}12 & 998 & -40\end{array}$
$\begin{array}{lll}15 & 1000 & -39\end{array}$
$\begin{array}{lll}18 & 1003 & -39\end{array}$
$\begin{array}{lll}21 & 1005 & -38\end{array}$
DAY 8
$\begin{array}{lll}00 & 994 & -36\end{array}$
$\begin{array}{lll}03 & 997 & -35\end{array}$
$\begin{array}{lll}06 & 998 & -36\end{array}$
$\begin{array}{lll}09 & 998 & -37\end{array}$
$\begin{array}{lll}12 & 997 & -38\end{array}$
$\begin{array}{lll}15 & 996 & -36\end{array}$
$\begin{array}{lll}18 & 994 & -33\end{array}$
21 990-27
DAY 15
$00 \quad 999-24$
$\begin{array}{lll}03 & 998 & -24\end{array}$
$06 \quad 997-25$
$09 \quad 997-25$
$\begin{array}{lll}12 & 996 & -25\end{array}$
$\begin{array}{lll}15 & 995 & -24\end{array}$
$\begin{array}{lll}18 & 994 & -25\end{array}$
21 993-25
DAY 22
$\begin{array}{lll}00 & 989 & -40\end{array}$
$\begin{array}{lll}03 & 989 & -43\end{array}$
$\begin{array}{lll}06 & 987 & -43\end{array}$
$\begin{array}{lll}09 & 985 & -44\end{array}$
$\begin{array}{lll}12 & 983 & -36\end{array}$
$\begin{array}{lll}15 & 981 & -35\end{array}$
$\begin{array}{lll}18 & 978 & -28\end{array}$
21 976-26
DAY 29
$00 \quad 995$-40
$\begin{array}{lll}03 & 991 & -37\end{array}$
$\begin{array}{lll}06 & 990 & -33\end{array}$
09 989-31
$\begin{array}{lll}12 & 988 & -30\end{array}$
$\begin{array}{lll}15 & 987 & -31\end{array}$
$\begin{array}{lll}18 & 987 & -31\end{array}$
$\begin{array}{lll}21 & 988 & -32\end{array}$


PP TT VV DD
DAY 4
970-27
967-24
967-24
970-30
972-31
974-32
974-34
975-39
DAY 11
989-34
990-33
990-32
$\begin{array}{lll}990 & -31 \\ 990 & -32\end{array}$
$\begin{array}{lll}990 & -33 \\ 990 & -31\end{array}$
$\begin{array}{lll}990 & -31 \\ 990 & -34\end{array}$
DAY 18
994-29
995-30
997-29
998-29
999-28
998-30
997-31
$997-30$
DAY 25
969-30
969-34
970-35
972-34
974-34
975-35
977-34
978-34



* TEMPERATURE (C) * MEAN $=-30.9$ STD DEV $=6.4 \mathrm{mAX}=-7.8$ AT 930 GMT ON DAY 7 MIN $=-45.0$ at 930 GMT ON DAY 2
* THETA (K) * MEAN $=243.30$
* PRESSURE (MB) * MEAN $=984.7$ STD DEV $=10.1$ MAX $=1005.2$ AT 2240 GMT ON DAY 1 MIN $=960.1$ at 1250 GMT ON DAY 5 * WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** at 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $98.4 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14 -16 $16-18$ 18-20 $\quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

SEP 97

| HR | PP |  |  | DD | PP | TT |  | DD | PP |  | DD | PP | TT VV | DD | PP | Tt WV | DD | PP | TT WV | DD | PP | TT W | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY 3 |  |  | DAY 4 |  |  | DAY 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 00 | 995 | -25 |  |  | 1001 | -30 |  |  | 999 | -28 |  | 986 | -33 |  | 988 | -44 |  | 995 | -47 |  | 997 | -45 |  |
| 03 | 995 | -24 |  |  | 1001 | -29 |  |  | 997 | -28 |  | 986 | -34 |  | 989 | -46 |  | 995 | -47 |  | 996 | -44 |  |
| 06 | 996 | -24 |  |  | 1002 | -27 |  |  | 996 | -31 |  | 986 | -35 |  | 991 | -47 |  | 995 | -46 |  | 996 | -47 |  |
| 09 | 997 | -25 |  |  | 1002 | -29 |  |  | 994 | -32 |  | 986 | -36 |  | 993 | -47 |  | 996 | -46 |  | 996 | -48 |  |
| 12 | 998 | -29 |  |  | 1001 | -31 |  |  | 991 | -33 |  | 987 | -38 |  | 994 | -48 |  | 996 | -47 |  | 997 | -48 |  |
| 15 | 999 | -31 |  |  | 1001 | -29 |  |  | 989 | -31 |  | 986 | -37 |  | 994 | -48 |  | 996 | -46 |  | 997 | -46 |  |
| 18 | 999 | -31 |  |  | 1000 | -28 |  |  | 988 | -31 |  | 987 | -38 |  | 995 | -47 |  | 997 | -42 |  | 997 | -45 |  |
| 21 | 1000 | -33 |  |  | 1000 | -28 |  |  | 987 | -33 |  | 987 | -42 |  | 995 | -47 |  | 997 | -44 |  | 996 | -47 |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 996 | -48 |  |  | 989 | -37 |  |  | 966 | -28 |  | 977 | -40 |  | 985 | -38 |  | 988 | -31 |  | 977 | -41 |  |
| 03 | 995 | -43 |  |  | 988 | -39 |  |  | 964 | -27 |  | 979 | -41 |  | 985 | -36 |  | 987 | -32 |  | 976 | -41 |  |
| 06 | 994 | -39 |  |  | 985 | -34 |  |  | 962 | -29 |  | 981 | -42 |  | 985 | -35 |  | 985 | -34 |  | 974 | -39 |  |
| 09 | 992 | -35 |  |  | 983 | -33 |  |  | 962 | -31 |  | 982 | -41 |  | 986 | -34 |  | 983 | -34 |  | 974 | -38 |  |
| 12 | 991 | -31 |  |  | 980 | -33 |  |  | 963 | -33 |  | 982 | -40 |  | 987 | -33 |  | 981 | -32 |  | 974 | -37 |  |
| 15 | 990 | -28 |  |  | 976 | -28 |  |  | 966 | -35 |  | 983 | -38 |  | 987 | -33 |  | 979 | -32 |  | 974 | -36 |  |
| 18 | 990 | -30 |  |  | 971 | -28 |  |  | 969 | -36 |  | 984 | -38 |  | 987 | -32 |  | 978 | -34 |  | 974 | -36 |  |
| 21 | 989 | -34 |  |  | 969 | -29 |  |  | 973 | -39 |  | 984 | -38 |  | 988 | -31 |  | 978 | -39 |  | 976 | -39 |  |
|  |  | DAY 1 | 15 |  |  | DAY | 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 | 977 | -42 |  |  | 979 | -39 |  |  | 980 | -39 |  | 984 | -37 |  | 987 | -30 |  | 992 | -42 |  | 992 | -36 |  |
| 03 | 979 | -42 |  |  | 978 | -38 |  |  | 981 | -41 |  | 984 | -35 |  | 988 | -29 |  | 988 | -43 |  | 995 | -34 |  |
| 06 | 980 | -40 |  |  | 978 | -38 |  |  | 981 | -42 |  | 984 | -31 |  | 989 | -29 |  | 985 | -37 |  | 996 | -32 |  |
| 09 | 982 | -41 |  |  | 978 | -37 |  |  | 983 | -44 |  | 983 | -29 |  | 990 | -33 |  | 985 | -39 |  | 997 | -32 |  |
| 12 | 983 | -41 |  |  | 979 | -37 |  |  | 984 | -43 |  | 984 | -28 |  | 991 | -35 |  | 986 | -37 |  | 1000 | -34 |  |
| 15 | 983 | -41 |  |  | 979 | -36 |  |  | 984 | -41 |  | 983 | -28 |  | 992 | -33 |  | 987 | -35 |  | 1001 | -34 |  |
| 18 | 982 | -40 |  |  | 980 | -37 |  |  | 985 | -40 |  | 983 | -27 |  | 992 | -34 |  | 989 | -33 |  | 1002 | -30 |  |
| 21 | 980 | -40 |  |  | 980 | -38 |  |  | 984 | -39 |  | 985 | -29 |  | 992 | -38 |  | 990 | -32 |  | 1004 | -30 |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 1005 | -34 |  |  | 1013 | -37 |  |  | 1013 | -32 |  | 1007 | -29 |  | 993 | -23 |  | 979 | -14 |  | 994 | -30 |  |
| 03 | 1007 | -35 |  |  | 1012 | -38 |  |  | 1012 | -32 |  | 1004 | -30 |  | 991 | -21 |  | 982 | -21 |  | 992 | -29 |  |
| 06 | 1009 | -37 |  |  | 1012 | -38 |  |  | 1012 | -32 |  | 1002 | -29 |  | 990 | -25 |  | 985 | -25 |  | 991 | -31 |  |
| 09 | 1012 | -37 |  |  |  |  |  |  | 1012 | -32 |  | 1001 | -29 |  | 989 | -27 |  | 988 | -32 |  | 990 | -33 |  |
| 12 | 1013 | -36 |  |  | 1012 | -36 |  |  | 1011 | -29 |  | 999 | -28 |  | 988 | -27 |  | 990 | -34 |  | 989 | -31 |  |
| 15 | 1014 | -35 |  |  | 1012 | -34 |  |  | 1010 | -28 |  | 997 | -27 |  | 985 | -22 |  | 993 | -32 |  | 989 | -29 |  |
| 18 | 1013 | -34 |  |  | 1012 | -31 |  |  | 1008 | -27 |  | 995 | -24 |  | 982 | -18 |  | 993 | -31 |  | 991 | -29 |  |
| 21 | 1014 | -35 |  |  | 1013 | -33 |  |  | 1008 | -28 |  | 993 | -23 |  | 980 | -13 |  | 993 | -31 |  | 993 | -28 |  |
|  |  | DAY |  |  |  | DAY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 994 | -30 |  |  | 1001 | -33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 995 | -35 |  |  | 1002 | -35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 997 | -37 |  |  | 1002 | -36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 998 | -39 |  |  | 1002 | -35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 999 | -35 |  |  | 999 | -31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 1000 | -33 |  |  | 997 | -27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 1000 | -29 |  |  | 995 | -19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 1001 | -31 |  |  | 994 | -15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-34.3$ Std dev $=6.7$ max $=-12.4$ at 2150 GMT ON DAY 26 MIN $=-48.2$ at 940 GMt ON dAY 7
* THETA (K) * MEAN $=239.48$
* PRESSURE (MB) * MEAN $=990.7$ STD DEV $=10.8$ MAX $=1014.0$ AT 2120 GMT ON DAY 22 MIN $=961.5$ AT 750 GMT ON DAY 10 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ UINDS: $100.0 \%$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| WIND SPEED (M/S): | $0-2$ | $2-4$ | -6 | $6-8$ | $8-10$ | $10-12$ | $12-14$ | $14-16$ | $16-18$ | $18-20$ | $20-25$ | $25-30$ | $30-35$ | $35-40$ | $40-45$ | $45-50$ | $50-55$ | $55-60$ | WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

OCT 97 HR PP TT WV DD DAY 1
$00 \quad 997-23$
03 1000-30
06 1002-32
09 1004-31
121004 - 30
15 1004-28
18 1004-26
21 1005-27
DAY 8
00 994-35
$03 \quad 994-33$
06 992-33
09 992-34
12 992-32
$15-992-30$
$\begin{array}{ll}18 & 992\end{array}-30$
$21 \quad 993-32$
DAY 15
00 999-28
03 999-29
$06 \quad 999-30$
09 999-32
12 999-34
$\begin{array}{llll}15 & 998 & -31\end{array}$
18 998-30
21 998-31
DAY 22
00 974-30
$\begin{array}{llll}03 & 975 & -35\end{array}$
$06 \quad 977$-33
09 978-35
$\begin{array}{lll}12 & 981 & -33\end{array}$
$\begin{array}{llll}15 & 984 & -31\end{array}$
18 985-29
21 987-30
DAY 29
00 983-24
03 984-28
$06 \quad 984-32$
$\begin{array}{ll}09 & 984-29\end{array}$
12 984-23
15 983-22
$\begin{array}{ll}18 & 982 \\ -21\end{array}$
21 982-21


| PP | TT NV DD |
| :---: | :---: | :---: |
| DAY | 4 |

1001-24 1000-24
999-23
$\begin{array}{ll}998 & -22 \\ 998 & -22\end{array}$
$\begin{array}{lll}997 & -20 \\ 996 & -18\end{array}$
996-19
DAY 11
999-36
999-34

| 999 |
| :--- |
| 999 |
| 995 |

999-31
$998-29$
$998-29$
998-29
DAY 18
988-34
987-33
987-32
987-30
987-28
987-27
988-27
988-28
DAY 25
982-24
981-25
979-27
976-27
973-19
969-14
969-10
976-21

## 29

982

980-23
979-23
978-22
976-22
976-24


* TEMPERATURE (C) * MEAN $=-28.4$ STD DEV $=5.4$ MAX $=-10.0$ at 1710 GMT ON DAY 25 MIN $=-42.5$ at 530 GMT ON DAY 13
* THETA (K) * MEAN $=245.50$
* PRESSURE (MB) * MEAN $=989.8$ STD DEV $=9.1$ MAX $=1007.4$ at 1220 GMT ON DAY 2 MIN $=967.5$ at 1700 GMT ON DAY 25 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

 hind direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

$\begin{array}{lllll}\text { HR } & \text { PP } & \text { TT } & \text { VV } & \text { DD } \\ & \text { DAY } & 1\end{array}$
$\begin{array}{llll}00 & 997 & -7 & 3\end{array}$ 03 996-11 2272
$\begin{array}{llll}06 & 995 & -10 & 0\end{array}$
$\begin{array}{llll}09 & 995 & -7 & 2315\end{array}$
$\begin{array}{llll}12 & 994 & -6 & 2156\end{array}$
$\begin{array}{lllll}15 & 994 & -5 & 6 & 202\end{array}$
$\begin{array}{lllll}18 & 995 & -6 & 7 & 181\end{array}$
$\begin{array}{llll}21 & 997 & -6 & 4 \\ 199\end{array}$ DAY 8

| 00 | 988 | 1 | 1 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 988 & -2 & 1 & 161\end{array}$
$\begin{array}{lllll}06 & 989 & -4 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 991 & -1 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 990 & 1 & 0 & 0\end{array}$
$\begin{array}{llll}15 & 988 & 2 & 1\end{array} 299$
$\begin{array}{lllll}18 & 987 & 2 & 248\end{array}$
$\begin{array}{lllll}21 & 987 & 2 & 2 & 199\end{array}$ DAY 15
$\begin{array}{llll}00 & 994 & -10 & 6172\end{array}$
$\begin{array}{lllll}03 & 996 & -12 & 4 & 157\end{array}$
$\begin{array}{llll}06 & 998 & -12 & 4 \\ 172\end{array}$
$\begin{array}{llll}09 & 998 & -12 & 2143\end{array}$
$\begin{array}{lllll}12 & 997 & -8 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 995 & -7 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 992 & -7 & 0 & 0\end{array}$

| 21 | 991 | -8 | 1 |
| :--- | :--- | :--- | :--- | DAY 22

$\begin{array}{lllll}00 & 996 & -7 & 6 & 189\end{array}$
$\begin{array}{lllll}03 & 996 & -10 & 8 & 194\end{array}$
$\begin{array}{llll}06 & 997 & -10 & 7 \\ 202\end{array}$
$\begin{array}{llll}09 & 997 & -10 & 7205\end{array}$
$\begin{array}{lllll}12 & 996 & -8 & 8 & 209\end{array}$
$\begin{array}{lllll}15 & 995 & -8 & 9 & 201\end{array}$
$\begin{array}{lllll}18 & 994 & -7 & 10 & 201\end{array}$
$\begin{array}{lllll}21 & 994 & -6 & 8 & 194\end{array}$ DAY 29
$\begin{array}{lllll}00 & 999 & -5 & 3 & 284\end{array}$
031000 -8 2355
$06 \quad 999-10 \quad 2352$
$\begin{array}{lllll}09 & 1000 & -7 & 1 & 2\end{array}$
$\begin{array}{lllll}12 & 998 & -4 & 2 & 360\end{array}$
$\begin{array}{lllll}15 & 997 & -2 & 3 & 354\end{array}$
$\begin{array}{llll}18 & 995 & 0 & 2324\end{array}$
$\begin{array}{llll}21 & 993 & -1 & 5 \\ 324\end{array}$

| PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | VV | DD | PP |  | $\begin{gathered} \text { VV } \\ 3 \end{gathered}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 998 | -8 | 1 | 209 | 1008 | -8 | 3 | 219 |
| 999 | -14 | 1 | 288 | 1009 | -12 | 3 | 195 |
| 1000 | -15 | 2 | 355 | 1011 | -12 | 1 | 192 |
| 1002 | -12 | 2 | 360 | 1011 | -9 | 1 | 116 |
| 1003 | -7 | 3 | 5 | 1010 | -8 | 2 | 21 |
| 1003 | -5 | 5 | 208 | 1009 | -5 | 3 | 8 |
| 1005 | -5 | 6 | 195 | 1008 | -4 | 5 | 28 |
| 1007 | -5 | 3 | 219 | 1006 | -3 | 5 | 360 |
|  | day | 9 |  |  | DAY |  |  |


| PP | TT | VV | DD |
| ---: | ---: | ---: | ---: |
| DAY | 4 |  |  |
| 1005 | -3 | 2 | 317 |
| 1006 | -3 | 2 | 262 |
| 1006 | -4 | 7 | 187 |
| 1007 | -9 | 8 | 194 |
| 1007 | -7 | 10 | 195 |
| 1006 | -6 | 6 | 202 |
| 1005 | -5 | 7 | 201 |
| 1005 | -5 | 5 | 182 |
| DAY | 11 |  |  |


| PP | TT | VV | DD |
| ---: | ---: | ---: | ---: | ---: |
|  | DAY | 5 |  |
| 1004 | -5 | 5 | 194 |
| 1003 | -7 | 3 | 251 |
| 1002 | -9 | 4 | 255 |
| 1000 | -9 | 3 | 241 |
| 999 | -4 | 4 | 248 |
| 998 | -3 | 3 | 236 |
| 996 | 0 | 4 | 251 |
| 995 | 1 | 2 | 271 |


| PP | TT | V | DD |
| :--- | ---: | ---: | ---: |
|  | DAY | 6 |  |
| 994 | -3 | 2 | 270 |
| 993 | -7 | 1 | 275 |
| 994 | -7 | 1 | 309 |
| 995 | -3 | 0 | 0 |
| 994 | 0 | 1 | 316 |
| 994 | 1 | 2 | 258 |
| 993 | 2 | 3 | 260 |
| 993 | 3 | 2 | 233 | DAY 13

$\begin{array}{llll}984 & -3 & 2 & 28\end{array}$
$\begin{array}{llll}984 & -4 & 2 & 104\end{array}$
$\begin{array}{llll}985 & -4 & 4156\end{array}$
$\begin{array}{llll}984 & -4 & 3 & 156\end{array}$
$\begin{array}{llll}983 & -2 & 3 & 164\end{array}$
$\begin{array}{llll}982 & -2 & 3 & 158\end{array}$
$\begin{array}{llll}981 & -2 & 5 & 165\end{array}$
$\begin{array}{llll}981 & -2 & 4160\end{array}$ DAY 20
$\begin{array}{llll}981 & -4 & 3 & 39\end{array}$
$\begin{array}{llll}982 & -4 & 1 & 12\end{array}$
$\begin{array}{llll}982 & -6 & 0 & 0\end{array}$
$\begin{array}{lll}983 & -8 & 1292\end{array}$

| 984 | -7 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}985 & -7 & 10 & 205\end{array}$
$\begin{array}{llll}986 & -9 & 12188\end{array}$
987-10 10184
DAY 27
$\begin{array}{llll}996 & -4 & 3 & 45\end{array}$
$\begin{array}{llll}998 & -4 & 4 & 16\end{array}$
$\begin{array}{llll}1001 & -2 & 3 & 11\end{array}$
$\begin{array}{llll}1002 & -5 & 2 & 49\end{array}$
$\begin{array}{llll}1001 & -2 & 2 & 49\end{array}$
$\begin{array}{llll}1001 & -1 & 3 & 25\end{array}$
$1000 \quad 121$

PP TT WV DD DAY 7
$992 \quad 1 \quad 1243$
$\begin{array}{llll}993 & -3 & 3 & 205\end{array}$
$996 \quad-5 \quad 1220$
996 -2 0
993200
$992 \quad 3 \quad 1351$
99100
$989 \quad 4 \quad 1284$ DAY 14
$\begin{array}{llll}982 & -4 & 2184\end{array}$
$\begin{array}{lll}981 & -8 & 2194\end{array}$
983-10 2205
$\begin{array}{llll}987 & -9 & 3 & 210\end{array}$
$\begin{array}{llll}988 & -7 & 5 & 198\end{array}$
$\begin{array}{llll}989 & -6 & 6 & 185\end{array}$
$\begin{array}{llll}990 & -8 & 7 & 180\end{array}$
$\begin{array}{llll}992 & -9 & 5 & 171\end{array}$
DAY 21
988-10 8188
989-11 4188
989-12 6191
990-12 $\quad 5 \quad 189$
991-10 $\quad 8 \quad 181$
$\begin{array}{llll}991 & -8 & 9 & 184\end{array}$
$\begin{array}{llll}992 & -5 & 7 & 123\end{array}$
$\begin{array}{llll}994 & -5 & 6 & 149\end{array}$
DAY 28
$\begin{array}{llll}997 & -1 & 1 & 189\end{array}$
$\begin{array}{llll}997 & -7 & 3 & 203\end{array}$
$\begin{array}{llll}1004 & -8 & 6 & 196\end{array}$
$\begin{array}{llll}1007 & -7 & 4 & 195\end{array}$
$\begin{array}{llll}1005 & -4 & 3 & 182\end{array}$
$\begin{array}{llll}1001 & -2 & 3 & 198\end{array}$
$\begin{array}{lll}1000 & -4 & 213\end{array}$
$\begin{array}{llll}999 & -3 & 4 & 239\end{array}$

* temperature ( $C$ ) * mean $=-5.7$ Std dev $=4.1$ max $=4.0$ at 1630 GMT ON DAY 7 min $=-16.0$ At 820 GMt ON dAY 17
* theta ( $K$ ) * MEAN $=267.99$
* PRESSURE (MB) * MEAN $=993.2$ STD DEV $=6.3$ MAX $=1011.3$ AT 750 GMT ON DAY 3 MIN $=979.8$ AT 2120 GMT ON DAY 19
* WINDS (M/S) * MEAN $=3.1 \mathrm{STD}$ DEV $=2.4$ RESULTANT $=1.8$ FROM 200. CONSTANCY $=0.58 \mathrm{mAX}=12.6$ FROM 194. AT 1740 GMT DAY 20
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 33 & 40 & 14 & 8 & 3 & & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT
$\left.\begin{array}{llrrrrrrrrrrrrr}7 & 4 & 3 & 3 & 1 & 2 & 1 & 10 & 17 & 23 & 7 & 6 & 5 & 4 & 5\end{array}\right) 2$
HR PP TT VV DD PP TT VV DD PP TT VV DD

|  |  | DAY 1 |  | DAY |
| :---: | :---: | :---: | :---: | :---: |
| 00 | 977 | -3 | 976 | -2 |
| 03 | 978 | -3 | 974 | -2 |
| 06 | 979 | -2 | 973 | -3 |
| 09 | 979 | -1 | 972 | -2 |
| 12 | 979 |  | 972 | -1 |
| 15 | 979 |  | 972 | 2 |
| 18 | 978 | 3 | 971 | 2 |
| 21 | 977 | -1 | 971 | -1 |
|  |  | DAY 8 |  | DAY 9 |
| 00 | 977 | -4 | 979 | -1 |
| 03 | 977 | -7 | 980 | -1 |
| 06 | 977 | -6 | 980 | -2 |
| 09 | 977 | -6 | 981 | -1 |
| 12 | 978 | -3 | 982 | 2 |
| 15 | 978 | 1 | 983 |  |
| 18 | 978 | 0 | 983 |  |
| 21 | 979 | -1 | 983 |  |
|  |  | DAY 15 |  | DAY 16 |
| 00 | 983 | 0 | 989 | -2 |
| 03 | 981 | 0 | 989 | -7 |
| 06 | 980 | -1 | 988 | -6 |
| 09 | 981 | -1 | 986 | -3 |
| 12 | 982 | 0 | 984 | -2 |
| 15 | 984 | 0 | 982 | -1 |
| 18 | 986 | 1 | 980 | -1 |
| 21 | 988 | 1 | 980 | -1 |
|  |  | DAY 22 |  | DAY 23 |
| 00 | 975 | -2 | 986 | -3 |
| 03 | 978 | -4 | 982 | -3 |
| 06 | 981 | -7 | 978 | -4 |
| 09 | 984 | -6 | 979 | -4 |
| 12 | 987 | -2 | 982 | -3 |
| 15 | 988 | 1 | 985 | 1 |
| 18 | 988 | -1 | 987 | 2 |
| 21 | 988 | -2 | 988 | 0 |
|  |  | DAY 29 |  | DAY 30 |


|  | day 3 |  | DAY |
| :---: | :---: | :---: | :---: |
| 971 | -2 | 975 | -1 |
| 971 | -3 | 976 | -2 |
| 971 | -3 | 976 | -3 |
| 972 | -3 | 977 | -2 |
| 973 | -1 | 977 | 0 |
| 973 | 0 | 977 | 2 |
| 973 | 1 | 977 | 2 |
| 974 | -1 | 977 | 0 |
|  | DAY 10 |  | DAY 11 |
| 983 | 1 | 975 | -1 |
| 983 | -2 | 973 | -1 |
| 982 | -3 | 972 | -1 |
| 981 | -2 | 972 | -2 |
| 980 | -2 | 973 | -1 |
| 980 | -1 | 975 | 1 |
| 978 | -1 | 976 | 1 |
| 976 | -1 | 977 | 1 |
|  | DAY 17 |  | DAY 18 |
| 980 | -1 | 992 | 0 |
| 981 | -1 | 993 | -1 |
| 983 | -1 | 993 | -1 |
| 986 | -1 | 995 | -2 |
| 987 | 2 | 995 | 0 |
| 988 |  | 996 | 2 |
| 989 |  | 996 | 3 |
| 990 | 2 | 997 | 1 |
|  | DAY 24 |  | DAY 25 |
| 988 | -3 | 982 | -2 |
| 988 | -4 | 981 | -3 |
| 988 | -8 | 981 | -3 |
| 987 | -6 | 980 | -3 |
| 986 | -5 | 980 | -1 |
| 985 | -1 | 980 | 1 |
| 984 | 2 | 980 | 3 |
| 983 |  | 979 | 1 |




DAY 31
997 -1
997 -2
$996-2$
996 -1
996 - 1
9972
9972
9972

MONTHLY SUMMARY

WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

HR PP TT VV DD 00
03
06
09
12

## 15 18

211001

|  | DAY |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 972 | -6 | 6 | 194 |


| 03 | 973 | -9 | 7212 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}06 & 973 & -12 & 603\end{array}$
$\begin{array}{lllll}09 & 974 & -11 & 7 & 195\end{array}$
$\begin{array}{llll}12 & 975 & -10 & 6191\end{array}$
$\begin{array}{lllll}15 & 975 & -7 & 7 & 199\end{array}$
$\begin{array}{lllll}18 & 976 & -6 & 6 & 187\end{array}$
$\begin{array}{lllll}21 & 976 & -7 & 5 & 195\end{array}$ DAY 15
$\begin{array}{lllll}00 & 986 & -2 & 1 & 102\end{array}$
$\begin{array}{lllll}03 & 986 & -2 & 2 & 109\end{array}$
$\begin{array}{lllll}06 & 986 & -2 & 1 & 122\end{array}$
$\begin{array}{lllll}09 & 986 & -3 & 1 & 154\end{array}$
$\begin{array}{lllll}12 & 986 & -2 & 2 & 132\end{array}$
$\begin{array}{lllll}15 & 986 & -1 & 3 & 156\end{array}$
$\begin{array}{lllll}18 & 986 & -3 & 3 & 165\end{array}$
$\begin{array}{llll}21 & 986 & -4 & 2170\end{array}$ DAY 22
$\begin{array}{lllll}00 & 983 & -8 & 8 & 139\end{array}$
$\begin{array}{llll}03 & 986 & -10 & 4 \\ 161\end{array}$
$\begin{array}{lllll}06 & 987 & -11 & 6172\end{array}$
$\begin{array}{lllll}09 & 989 & -11 & 6 & 171\end{array}$
$\begin{array}{lllll}12 & 990 & -11 & 5 & 168\end{array}$
$\begin{array}{lllll}15 & 992 & -11 & 6 & 163\end{array}$
$\begin{array}{llll}18 & 992 & -11 & 5 \\ 174\end{array}$
$\begin{array}{lllll}21 & 992 & -11 & 6158\end{array}$

|  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | VV DD |  |  | $\begin{array}{rr} \text { WV } & \text { DD } \\ 3 & \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1001 | -3 |  | 1001 | -3 |  |
| 1002 | -4 |  | 1001 | -4 |  |
| 1002 | -5. |  | 1000 | -4 |  |
| 1002 | -5 |  | 1000 | -4 |  |
|  |  |  | 1000 | -3 |  |
| 1002 | -1 |  | 1000 | -4 |  |
| 1001 | 1 |  | 999 | -4 |  |
| 1001 | 0 |  | 999 | -4 |  |
|  | DAY | 9 |  | DAY | 10 |
| 977 | -8 | 3198 | 991 | -11 | 2323 |
| 978 | -9 | 3180 | 993 | -15 | 2341 |
| 979 | -10 | 4187 | 993 | -15 | 3347 |
| 981 | -16 | 4181 | 993 | -15 | 2336 |
| 984 | -13 | 3191 | 994 | -10 | 3340 |
| 987 | -9 | 3192 | 993 | -5 | 4329 |
| 989 | -5 | 2174 | 992 | -4 | 3345 |
| 990 | -4 | 00 | 992 | -4 | 4347 |
|  | DAY | 16 |  | DAY | 17 |
| 986 | -5 | 2188 | 987 | -4 | 3189 |
| 985 | -5 | 2178 | 988 | -6 | 3202 |
| 985 | -5 | 2168 | 988 | -5 | 6192 |
| 985 | -5 | 1203 | 989 | -4 | 2101 |
| 985 | -4 | 2163 | 990 | -4 | 3115 |
| 986 | -3 | 2160 | 991 | -3 | 3137 |
| 986 | -3 | 2160 | 992 | -5 | 3178 |
| 987 | -3 | 3178 | 992 | -7 | 3182 |
|  | DAY | 23 |  | DAY | 24 |
| 993 | -13 | 5161 | 991 | -15 | 0 |
| 994 | -13 | 7168 | 990 | -19 | 0 |
| 993 | -14 | 5161 | 988 | -21 | 266 |
| 994 | -14 | 4177 | 987 | -25 | 0 |
| 994 | -13 | 5180 | 987 | -18 | 2355 |
| 994 | -12 | 4164 | 986 | -13 | 35 |
| 992 | -11 | 4171 | 986 | -10 | 412 |
| 991 | -12 | 2160 | 986 | -11 | 126 |

$\begin{array}{cccc}\text { PP } & \text { TT WV } & \text { DD } \\ & \text { DAY } & 4 & \\ 999 & -6 & & \\ 1000 & -6 & & \\ 999 & -7 & & \\ 999 & -8 & & \\ 999 & -5 & & \\ 999 & -3 & & \\ 998 & 1 & & \\ 997 & -1 & & \\ & \text { DAY } & 11 & \end{array}$
$\begin{array}{lll}\text { DAY } & 11 \\ 90 & -6 \quad 4358\end{array}$
$\begin{array}{llll}989 & -5 & 5 & 358\end{array}$
$\begin{array}{lll}987 & -5 & 5360\end{array}$
$\begin{array}{llll}986 & -5 & 4 & 4\end{array}$
$\begin{array}{llll}984 & -3 & 4358\end{array}$
$984 \quad 0 \quad 3351$
98504203
986 -2 1222 DAY 18
$\begin{array}{llll}993 & -7 & 3 & 189\end{array}$
$\begin{array}{llll}994 & -7 & 1 & 185\end{array}$
$\begin{array}{llll}994 & -8 & 2 & 189\end{array}$
$\begin{array}{llll}994 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}995 & -8 & 2 & 187\end{array}$
$\begin{array}{llll}995 & -6 & 2 & 189\end{array}$
$\begin{array}{llll}995 & -6 & 2171\end{array}$
$\begin{array}{llll}996 & -7 & 1 & 160\end{array}$
DAY 25
$\begin{array}{lll}987-17 & 2 & 42\end{array}$
988-21 0
$\begin{array}{llll}989 & -23 & 0 & 0\end{array}$
990-26 1216
992-22 2206
994-19 2208
995-16 3206
996-14 3203

|  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |  |  |  | DD |  |  |  | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 997 | -6 |  |  | 990 | -4 | 5 | 357 | 980 | -2 | 6 | 29 |
| 996 | -11 |  |  | 989 | -5 | 4 | 357 | 977 | -3 | 9 | 39 |
| 996 | -12 |  |  | 989 | -5 | 2 | 350 | 974 | -4 | 7 | 47 |
| 996 | -12 |  |  | 988 | -5 | 2 | 333 | 972 | -4 | 5 | 67 |
| 995 | -7 |  |  | 987 | -4 | 2 | 285 | 971 | -3 | 4 | 67 |
|  |  |  |  | 986 | -1 | 2 | 360 | 971 | -2 | 3 | 102 |
| 992 | -3 |  | 355 | 985 | -1 | 3 | 360 | 971 | -3 | 6 | 163 |
| 991 | -4 | 4 | 341 | 983 | -1 | 5 | 12 | 971 | -4 | 6 | 178 |
| DAY 12 |  |  |  | DAY 13 |  |  |  | DAY 14 |  |  |  |
| 987 | -4 | 0 | 0 | 980 | 0 | 2 | 21 | 982 | -1 | 3 | 212 |
| 987 | -4 | 0 | 0 | 978 | 0 | 5 | 57 | 982 | -2 | 4 | 196 |
| 986 | -4 | 2 | 5 | 977 | 0 | 2 | 30 | 983 | -3 | 3 | 178 |
| 985 | -3 | 2 | 19 | 976 | 0 | 1 | 81 | 984 | -6 | 2 | 227 |
| 985 | -1 | 2 | 73 | 976 | 1 | 0 | 0 | 985 | -1 | 2 | 196 |
| 984 | 2 | 3 | 32 | 977 | 2 | 4 | 180 | 985 | 1 | 2 | 177 |
| 982 | 1 | 4 | 52 | 979 | 2 | 3 | 198 | 985 | 1 | 2 | 106 |
| 981 | 1 | 3 | 11 | 980 | 0 | 3 | 216 | 986 | 0 | 2 | 111 |
| DAY 19 |  |  |  | DAY 20 |  |  |  | DAY 21 |  |  |  |
| 996 | -14 | 1 | 129 | 989 | -9 | 3 | 37 | 979 | -6 | 3 | 241 |
| 996 | -17 | 1 | 87 | 988 | -9 | 3 | 42 | 979 | -8 | 5 | 212 |
| 995 | -13 | 1 | 43 | 986 | -9 | 3 | 59 | 979 | -9 | 4 | 201 |
| 995 | -11 | 3 | 30 | 984 | -8 | 3 | 63 | 979 | -9 | 6 | 189 |
| 995 | -10 | 3 | 23 | 983 | -6 | 2 | 37 | 979 | -8 | 4 | 192 |
| 993 | -8 | 3 | 33 | 982 | -4 | 3 | 66 | 980 | -6 | 4 | 205 |
| 992 | -8 | 4 | 43 | 980 | -1 | 3 | 50 | 980 | -1 | 5 | 113 |
| 991 | -9 | 2. | 19 | 979 | -4 | 32 | 244 | 981 | -3 | 4 | 127 |
| DAY 26 |  |  |  | DAY 27 |  |  |  | DAY 28 |  |  |  |
| 997 | -20 |  | 206 | 1000 | -20 | 0 | 0 | 992 | -12 | 2 | 7 |
| 998 | -24 |  | 195 | 999 | -20 | 0 | 0 | 991 | -12 | 2 | 12 |
| 999 | -25 | 0 | 0 | 999 | -20 | 0 | 0 | 991 | -11 | 0 | 0 |
| 999 | -18 | 3 | 147 | 998 | -21 |  | 358 | 991 | -12 | 0 | 0 |
| 1000 | -17 | 2 | 158 | 997 | -19 |  | 360 | 992 | -9 |  | 360 |
| 1000 | -14 | 1 | 153 | 996 | -16 | 4 | 2 | 992 | -7 | 4 | 7 |
| 1000 | -15 | 2 | 172 | 994 | -13 |  | 360 | 991 | -6 | 2 | 26 |
| 1000 | -17 | 1 | 123 | 993 | -13 | 3 | 16 | 989 | -7 | 3 | 56 |

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-7.4$ STD DEV $=6.1$ MAX $=2.9$ AT 1610 GMT ON DAY 12 MIN $=-25.9$ AT 900 GMT ON DAY 25
* theta (K) * mean $=266.56$
* PRESSURE (MB) * MEAN $=989.1$ STD DEV $=7.8$ MAX $=1002.4$ AT 940 GMT ON DAY 2 MIN $=970.6$ AT 1400 GMT ON DAY 7
* WINDS (M/S) * MEAN $=3.0$ STD DEV $=1.8$ RESULTANT $=0.7$ FROM 150 . CONSTANCY $=0.25 \mathrm{MAX}=9.9$ FROM 32 . AT 210 GMT DAY 7
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.8 \%$ PRESSURE: $1.8 \%$ WINDS: $17.0 \%$
 $\begin{array}{lllllllllllllllllllll}\text { PERCENT: } & 30 & 47 & 17 & 6 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW PERCENT

$$
\begin{array}{llllllllllllllll}
14 & 9 & 6 & 5 & 2 & 5 & 3 & 12 & 19 & 15 & 2 & 1 & 0 & 1 & 1 & 5
\end{array}
$$

MAR 97 $\begin{array}{lllll} & & \text { DAY } & 1 & \\ 00 & 987 & -6 & 3 & 32 \\ 03 & 982 & -3 & 1 & 35 \\ 06 & 977 & -1 & 4 & 53 \\ 09 & 971 & -7 & 3 & 225 \\ 12 & 967 & -7 & 4 & 232 \\ 15 & 965 & -7 & 8 & 227 \\ 18 & 967 & -7 & 9 & 216 \\ 21 & 969 & -9 & 9 & 202 \\ & & \text { DAY } & 8 & \\ 00 & 975 & 2 & 5 & 289 \\ 03 & 975 & 3 & 2 & 215 \\ 06 & 975 & 2 & 1 & 243 \\ 09 & 975 & 2 & 3 & 201 \\ 12 & 976 & -1 & 5 & 188 \\ 15 & 978 & -3 & 5 & 132 \\ 18 & 981 & -4 & 4 & 140 \\ 21 & 985 & -9 & 3 & 168 \\ & & \text { DAY } & 15 & \end{array}$
$\begin{array}{lllll}00 & 993 & -7 & 3 & 206\end{array}$
$\begin{array}{lllll}03 & 995 & -11 & 3 & 209\end{array}$
06 997-10 3223
$\begin{array}{lllll}09 & 999 & -9 & 4 & 241\end{array}$
121001 -7 2250
$\begin{array}{llll}15 & 1001 & -4 & 3 \\ 255\end{array}$
$\begin{array}{llll}18 & 1000 & -3 & 2344\end{array}$
$\begin{array}{lllll}21 & 999 & -2 & 2 & 11\end{array}$ DAY 22
00 974-18 00
$\begin{array}{llll}03 & 975-19 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 974 & -20 & 0\end{array}$
$\begin{array}{lllll}09 & 973 & -18 & 3 & 42\end{array}$
$\begin{array}{lllll}12 & 972 & -13 & 5 & 45\end{array}$
$\begin{array}{lllll}15 & 972 & -11 & 7 & 77\end{array}$
$\begin{array}{lllll}18 & 973 & -12 & 5 & 111\end{array}$
$\begin{array}{llll}21 & 974-13 & 8 & 172\end{array}$ DAY 29
00 977-13 6153
$\begin{array}{lllll}03 & 979 & -13 & 6 & 157\end{array}$
$\begin{array}{lllll}06 & 980 & -13 & 7 & 156\end{array}$
$\begin{array}{lllll}09 & 981 & -14 & 7 & 160\end{array}$
$\begin{array}{llll}12 & 983 & -15 & 6174\end{array}$
$\begin{array}{lllll}15 & 984 & -16 & 6 & 180\end{array}$
$\begin{array}{llll}18 & 984 & -16 & 7 \\ 174\end{array}$
$\begin{array}{llll}21 & 985 & -17 & 5 \\ 187\end{array}$

PP TT VV DD PP TT VV DAY 2
973-12 6175
$\begin{array}{llll}975 & -16 & 4 & 227\end{array}$
977-17 4206
978-18 2201
980-13 3172
982-11 4163
983-10 5118
986-10 2216 DAY 9
987-15 197
989-19 1253
989-20 2286
987-14 2310
$\begin{array}{llll}983 & -5 & 5 & 322\end{array}$
$\begin{array}{llll}978 & -3 & 6 & 331\end{array}$
$\begin{array}{llll}976 & 2 & 4 & 279\end{array}$
97311324 DAY 16
$\begin{array}{llll}999 & -4 & 4 & 264\end{array}$
$\begin{array}{llll}997 & -2 & 3 & 281\end{array}$
$\begin{array}{llll}994 & -5 & 1 & 284\end{array}$
$993-5 \quad 2307$

98424306
$983 \quad 4 \quad 5279$
$983 \quad 3 \quad 3275$ DAY 23
$\begin{array}{llll}975 & -14 & 8 & 165\end{array}$
$\begin{array}{llll}976 & -16 & 7174\end{array}$
$977-19 \quad 4181$
978 -21 5192
979-21 5219
$\begin{array}{llll}980 & -17 & 6 & 191\end{array}$
981-14 7171
981-16 6202 DAY 30
984-17 3178
984-18 2192
983-18 00
981-17 0
981-16 1300
981-14 1352
982-10 0 0
982-15 288

DAY 3
988-15 1 206
989-18 0
990-19 0
990-16 0
989-13 2360
$\begin{array}{lll}988 & -9 & 5\end{array} 355$
$\begin{array}{llll}986 & -8 & 3 & 360\end{array}$
$\begin{array}{llll}985 & -8 & 3 & 25\end{array}$ DAY 10
$\begin{array}{llll}969 & -1 & 25\end{array}$
$\begin{array}{llll}967 & -1 & 2 & 54\end{array}$
$\begin{array}{llll}963 & -1 & 2 & 67\end{array}$
$\begin{array}{llll}959 & -1 & 3 & 45\end{array}$
$\begin{array}{llll}961 & -6 & 7 & 151\end{array}$
$\begin{array}{llll}964-12 & 7 & 178\end{array}$
966-12 5170
967-15 4180 DAY 17
$\begin{array}{rrrr}984 & 3 & 3 & 246 \\ 985 & 2 & 5 & 189 \\ 984 & 1 & 7 & 216 \\ 984 & -2 & 6 & 275 \\ 984 & -2 & 6 & 264 \\ 983 & 1 & 5 & 243 \\ 982 & 1 & 5 & 205 \\ 982 & -1 & 3 & 274\end{array}$ DAY 24
983-15 6196 986-18 4191
$\begin{array}{lll}987 & -22 \quad 3 & 216\end{array}$
989-25 2203
990-25 3223
992-20 0
992-16 0
993-20 2296
DAY 31
983-21 0 0
$983-241127$
983-23 2181
983-18 2104
983-19 3135
984-19 5147
986-20 5154
$\begin{array}{llll}986 & -20 & 5 & 154 \\ 988 & -24 & 4 & 172\end{array}$

PP TT VV DD PP TT VV DD PP TT VV DAY 4 $\begin{array}{llll}984 & -8 & 4 & 45\end{array}$ $\begin{array}{llll}983 & -9 & 2 & 57\end{array}$ $\begin{array}{llll}982 & -9 & 3 & 92\end{array}$ 982-10 2125 $\begin{array}{llll}983 & -10 & 3 & 139\end{array}$ 985-10 $\quad 3167$
$\begin{array}{llll}988 & -9 & 2 & 122\end{array}$
$\begin{array}{llll}990 & -9 & 1 & 132\end{array}$
DAY 11
969-20 3213
969-22 0
967-22 256
967-15 212
967-14 2334
968-10 2223
$\begin{array}{llll}968 & -10 & 2 & 99\end{array}$
969-15 $3 \quad 99$ DAY 18
$\begin{array}{llll}981 & -5 & 1323\end{array}$
$\begin{array}{lll}980 & -9 & 3\end{array}$
$\begin{array}{lll}979 & -5 & 265\end{array}$
$\begin{array}{llll}978 & -8 & 3 & 285\end{array}$
979-10 3322
$\begin{array}{llll}978 & -5 & 3 & 288\end{array}$
$\begin{array}{llll}978 & -1 & 6 & 265\end{array}$

| 978 | -2 | 8 |
| :--- | :--- | :--- | DAY 25

994-21 1330
$\begin{array}{lll}994 & -23 & 2360\end{array}$
994-22 3313
994-21 0
994-17 0 0
994-12 3302
$\begin{array}{llll}994 & -9 & 4 & 282\end{array}$
994-11 4305

DAY 5
992
993
99
99
99
99
99
99
992-14 0
$\begin{array}{lllllll}993 & -22 & 0 & 0 & 993 & -21 & 2 \\ 343\end{array}$
$\begin{array}{llllllll}994 & -24 & 0 & 0 & 991 & -22 & 2 & 343\end{array}$
$\begin{array}{llllllll}994 & -24 & 0 & 0 & 990 & -21 & 2 & 345\end{array}$
$\begin{array}{llllllll}995 & -18 & 0 & 0 & 990 & -17 & 2 & 341\end{array}$
$\begin{array}{llllllll}995 & -11 & 0 & 0 & 988 & -10 & 2337\end{array}$
$\begin{array}{llllllll}994 & -12 & 2 & 316 & 986 & -7 & 2 & 344\end{array}$
$\begin{array}{llllllll}994 & -12 & 1 & 5 & 984 & -7 & 3 & 350\end{array}$
DAY 13
981-17 2299
977-14 2317
973-11 137
$\begin{array}{llll}972 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}974 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}976 & -4 & 0 & 0\end{array}$
$980-6 \quad 2116$
$\begin{array}{llll}982 & -7 & 1 & 264\end{array}$
DAY 20
$\begin{array}{rrrr}966 & -1 & 5 & 306 \\ 964 & -4 & 4 & 322 \\ 964 & -8 & 3 & 288 \\ 964 & -9 & 2 & 317 \\ 966 & -6 & 0 & 0 \\ 968 & -2 & 0 & 0 \\ 969 & 1 & 1 & 355 \\ 970 & -2 & 4 & 326\end{array}$ DAY 27
991-12 2357
990-14 1360
988-10 $3 \quad 60$
$\begin{array}{llll}984 & -8 & 4 & 61\end{array}$
$\begin{array}{llll}983 & -7 & 2 & 45\end{array}$
$\begin{array}{llll}980 & -6 & 3 & 90\end{array}$
$\begin{array}{llll}977 & -6 & 2 & 84\end{array}$
$\begin{array}{llll}975 & -6 & 1 & 170\end{array}$

PP TT WV DD DAY 7
$\begin{array}{llll}982 & -9 & 4 & 338\end{array}$
$\begin{array}{lll}980 & -8 & 2329\end{array}$
$\begin{array}{llll}977 & -6 & 3 & 334\end{array}$
$\begin{array}{lll}977 & -6 & 2360\end{array}$
$\begin{array}{llll}977 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}977 & 2 & 1 & 39\end{array}$
976500
97612360 DAY 14
982-10 2330
$\begin{array}{llll}983 & -8 & 3 & 306\end{array}$
983-10 3229
$\begin{array}{llll}983 & -7 & 5 & 191\end{array}$
$\begin{array}{llll}985 & -7 & 3 & 217\end{array}$
$\begin{array}{llll}987 & -4 & 4 & 187\end{array}$
$989-2 \quad 4182$
$991 \quad-4 \quad 4201$
DAY 21
$\begin{array}{llll}969 & -4 & 4 & 345\end{array}$
$\begin{array}{lll}968 & -4 & 5 \\ 341\end{array}$
$\begin{array}{llll}967 & -3 & 5 & 331\end{array}$
$\begin{array}{llll}966 & -4 & 5 & 277\end{array}$
$\begin{array}{lll}968 & -11 & 9 \\ 194\end{array}$
$971-11 \quad 4185$
$\begin{array}{lll}972 & -10 & 5 \\ 194\end{array}$
$\begin{array}{lll}972 & -14 & 2187\end{array}$
DAY 28
$\begin{array}{llll}973 & -7 & 2 & 236\end{array}$
$\begin{array}{llll}972 & -7 & 3 & 202\end{array}$
$\begin{array}{llll}971 & -7 & 3 & 225\end{array}$
971-11 3220
971 -9 4180
$\begin{array}{llll}973 & -9 & 4175\end{array}$

| 973 | -9 | 5 |
| :--- | :--- | :--- |

975-11 5157

## MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-10.4$ STD DEV $=7.1$ MAX $=5.5$ AT 1710 GMT ON DAY 16 MIN $=-26.4$ AT 2220 GMT ON DAY 31
* THETA (K) * MEAN $=264.24$
* PRESSURE (MB) * MEAN $=981.0$ STD DEV $=9.0$ maX $=1001.4$ AT 1520 GMT ON DAY 15 MIN $=957.9$ at 1050 GMt ON DAY 10
* WINDS (M/S) * MEAN $=3.0$ STD DEV $=2.1$ RESULTANT $=0.9$ from 218. CONSTANCY $=0.29 \max =11.4$ FROM 217. AT 1830 GMT DAY 1
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW


HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 990 & -24 & 4 & 185\end{array}$
$\begin{array}{lllll}03 & 992 & -30 & 3 & 196\end{array}$
$\begin{array}{lllll}06 & 993 & -32 & 1 & 219\end{array}$
$\begin{array}{lllll}09 & 994 & -34 & 0 & 0\end{array}$
$\begin{array}{llll}12 & 994 & -32 & 0\end{array} 0$
$\begin{array}{lllll}15 & 994 & -26 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 994 & -23 & 2360\end{array}$
$\begin{array}{lllll}21 & 994 & -24 & 3 & 14\end{array}$ DAY 8
$00 \quad 989-20 \quad 4203$
$\begin{array}{lllll}03 & 989 & -21 & 3 & 192\end{array}$
06 988-26 2212
$\begin{array}{llll}09 & 987 & -29 & 0\end{array}$
$\begin{array}{llll}12 & 986 & -29 & 0\end{array}$
$\begin{array}{llll}15 & 985 & -22 & 2 \\ 146\end{array}$
$\begin{array}{lllll}18 & 983-19 & 1 & 130\end{array}$
$\begin{array}{lllll}21 & 980 & -18 & 3 & 150\end{array}$ DAY 15
$\begin{array}{llll}00 & 971 & -14 & 0\end{array} 0$
$\begin{array}{lllll}03 & 970 & -14 & 1 & 105\end{array}$
$\begin{array}{llll}06 & 969-14 & 2 & 139\end{array}$
$\begin{array}{lllll}09 & 969 & -14 & 3 & 163\end{array}$
$\begin{array}{lllll}12 & 968 & -15 & 3 & 167\end{array}$
$\begin{array}{llll}15 & 969 & -15 & 4 \\ 184\end{array}$
$\begin{array}{llll}18 & 969-14 & 5 & 201\end{array}$
$\begin{array}{llll}21 & 970 & -15 & 5195\end{array}$ DAY 22
00 989-15 4172
$\begin{array}{lllll}03 & 991 & -16 & 4 & 208\end{array}$
$\begin{array}{llll}06 & 991 & -16 & 4 \\ 198\end{array}$
09 991-17 2209
$\begin{array}{llll}12 & 991 & -17 & 210\end{array}$
$\begin{array}{llll}15 & 991 & -16 & 234\end{array}$
18 989-16 1208
$21 \quad 989-16 \quad 2208$ DAY 29
00 968-22 6136
$\begin{array}{lllll}03 & 974 & -27 & 7 & 181\end{array}$
$\begin{array}{lllll}06 & 977 & -27 & 7 & 163\end{array}$
$\begin{array}{lllll}09 & 980 & -29 & 6 & 175\end{array}$
$\begin{array}{lllll}12 & 982 & -33 & 3 & 209\end{array}$
$\begin{array}{lllll}15 & 984 & -28 & 5 & 182\end{array}$
$\begin{array}{lllll}18 & 985 & -27 & 6 & 154\end{array}$
$21 \quad 986-26 \quad 6151$

$$
\begin{aligned}
& \text { PP TT VV DD } \\
& \text { DAY } 2 \\
& \text { 993-21 } 5360 \\
& \text { 991-18 } 8352 \\
& \begin{array}{llll}
990 & -17 & 6 & 358
\end{array} \\
& \text { 989-17 } 4360 \\
& \text { 989-18 } 0 \\
& \text { 989-17 } 1250 \\
& \begin{array}{llll}
990 & -17 & 3 & 187
\end{array} \\
& \text { 993-19 } 2241 \\
& \text { DAY } 9 \\
& \begin{array}{llll}
978 & -18 & 3 & 187
\end{array} \\
& \text { 976-18 } 7216 \\
& \text { 974-18 } 8212 \\
& 972-17 \quad 5210 \\
& 971 \text {-17 } 7206 \\
& 971 \text {-17 } 9198 \\
& \text { 970-16 } 7194 \\
& 970-16 \quad 6191 \\
& \text { DAY } 16 \\
& \text { 970-17-6189 } \\
& \begin{array}{llll}
971 & -17 & 7 & 191
\end{array} \\
& \text { 971-17 } 6196 \\
& \text { 972-17 } 6192 \\
& \text { 972-17 } 5185 \\
& \text { 972-16 } 6182 \\
& \text { 972-16 } 5191 \\
& \text { 972-17 } 5178 \\
& \text { DAY } 23 \\
& \text { 988-16 } 2187 \\
& \text { 987-16 } 2202 \\
& \text { 985-16 } 3189 \\
& \text { 984-16 } 4181 \\
& \begin{array}{llll}
984 & -18 & 5 & 181
\end{array} \\
& \text { 984-17 } 6189 \\
& \text { 984-18 } 7182 \\
& \text { 985-19 } 6192 \\
& \text { DAY } 30 \\
& \text { 988-26 } 4185 \\
& \text { 989-28 } \quad 3201 \\
& 990-33 \quad 2222 \\
& 990-30 \quad 2253 \\
& \begin{array}{llll}
990 & -33 & 3 & 217
\end{array} \\
& \begin{array}{llll}
991 & -31 & 0 & 0
\end{array} \\
& \begin{array}{llll}
991 & -32 & 0 & 0
\end{array} \\
& \text { 992-34 } 0
\end{aligned}
$$

| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | day | 7 |  |
| 996 | -21 | 5 | 156 | 1010 | -25 | 1 | 30 | 1005 | -12 | 2 | 70 | 1003 | -13 | 3 | 203 | 995 | -15 | 0 | 0 |
| 1000 | -26 | 3 | 170 | 1010 | -25 | 0 | 0 | 1004 | -11 | 2 | 42 | 1002 | -14 | 3 | 192 | 993 | -16 | 0 | 0 |
| 1002 | -28 | 3 | 184 | 1009 | -23 | 2 | 59 | 1003 | -10 | 0 | 0 | 1002 | -17 | 2 | 213 | 992 | -17 | 0 | 0 |
| 1004 | -30 | 2 | 175 | 1009 | -18 | 3 | 16 | 1002 | -10 | 0 | 0 | 1001 | -17 | 2 | 208 | 991 | -22 | 0 | 0 |
| 1006 | -29 | 0 | 0 | 1008 | -17 |  | 358 | 1002 | -9 | 1 | 112 | 1000 | -16 | 1 | 181 | 990 | -23 | 0 | 0 |
| 1007 | -22 | 0 | 0 | 1008 | -13 | 0 | 0 | 1002 | -7 | 2 | 144 | 1000 | -15 | 2 | 187 | 989 | -20 | 0 | 0 |
| 1008 | -20 | 2 | 36 | 1006 | -13 | 3 | 9 | 1002 | -10 | 3 | 201 | 998 | -15 | 3 | 174 | 989 | -19 | 0 | 0 |
| 1009 | -22 | 2 | 49 | 1005 | -13 | 2 | 22 | 1003 | -11 | 4 | 196 | 997 | -15 | 2 | 172 | 988 | -20 | 3 | 205 |
|  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 971 | -15 | 5 | 187 | 975 | -17 | 2 | 22 | 974 | -17 | 0 | 0 | 973 | -14 | 0 | 0 | 978 | -22 | 4 | 184 |
| 972 | -16 | 3 | 189 | 975 | -18 |  | 336 | 973 | -16 | 4 | 337 | 974 | -14 | 1 | 175 | 978 | -22 | 2 | 213 |
| 973 | -17 | 2 | 192 | 976 | -24 |  | 268 | 973 | -17 | 4 | 330 | 975 | -19 | 5 | 180 | 977 | -23 | 0 | 0 |
| 973 | -18 | 2 | 210 | 976 | -27 | 1 | 247 | 972 | -12 | 3 | 307 | 975 | -20 | 6 | 182 | 975 | -23 | 0 | 0 |
| 974 | -18 | 0 | 0 | 976 | -27 | 0 | 0 | 972 | -14 | 2 | 360 | 976 | -21 | 8 | 189 | 974 | -20 | 1 | 30 |
| 975 | -16 | 1 | 63 | 977 | -21 | 0 | 0 | 972 | -12 | 3 | 360 | 977 | -22 | 6 | 192 | 973 | -18 | 2 | 56 |
| 975 | -15 | 2 | 23 | 976 | -21 | 2 | 7 | 972 | -11 | 3 | 11 | 978 | -21 | 5 | 187 | 972 | -16 | 1 | 68 |
| 975 | -18 | 2 | 26 | 975 | -20 | 0 | 0 | 972 | -11 | 6 | 4 | 978 | -22 | 4 | 189 | 971 | -15 | 1 | 115 |
|  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 972 | -17 | 4 | 185 | 973 | -13 | 6 | 195 | 973 | -12 | 6 | 156 | 971 | -13 | 7 | 180 | 967 | -15 | 8 | 184 |
| 973 | -17 | 6 | 188 | 972 | -13 | 6 | 181 | 974 | -13 | 7 | 151 | 970 | -13 | 6 | 178 | 967 | -14 | 13 | 178 |
| 973 | -17 | 5 | 194 | 972 | -13 | 5 | 184 | 974 | -14 | 7 | 172 | 968 | -14 | 6 | 181 | 969 | -14 | 91 | 167 |
| 973 | -16 | 5 | 195 | 972 | -13 | 6 | 165 | 974 | -15 | 7 | 175 | 967 | -14 | 5 | 199 | 971 | -14 | 111 | 156 |
| 973 | -16 |  | 205 | 972 | -14 | 7 | 182 | 974 | -15 | 8 | 172 | 967 | -14 | 6 | 191 | 976 | -14 | 81 | 164 |
| 973 | -15 | 6 | 189 | 971 | -14 | 9 | 192 | 973 | -15 | 6 | 187 | 966 | -13 | 7 | 192 | 980 | -15 | 71 | 165 |
| 973 | -14 |  | 203 | 971 | -12 | 6 | 171 | 972 | -14 | 8 | 187 | 966 | -13 | 7 | 195 | 983 | -15 | 6 | 171 |
| 972 | -13 | 5 | 199 | 971 | -12 | 5 | 158 | 972 | -14 | 8. | 181 | 967 | -14 | 7 | 175 | 987 | -15 | 6 | 168 |
|  | DAY | 24 |  |  | DAY | 25 |  |  |  | $26^{\circ}$ |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 985 | -20 |  | 187 | 992 | -21 | 4 | 178 | 995 | -22 | 2 | 213 | 998 | -30 | 0 | 0 | 982 | -28 | 33 | 338 |
| 986 | -20 | 6 | 184 | 993 | -21 | 5 | 180 | 995 | -23 | 2 | 187 | 997 | -30 | 0 | 0 | 979 | -27 | 23 | 340 |
| 986 | -22 | 4 | 191 | 994 | -21 | 6 | 172 | 995 | -23 | 0 | 0 | 996 | -30 | 0 | 0 | 975 | -22 |  | 350 |
| 987 | -23 | 4 | 185 | 995 | -21 | 4 | 172 | 995 | -26 | 0 | 0 | 994 | -29 | 3 | 360 | 970 | -19 | 33 | 348 |
| 988 | -25 | 3 | 189 | 995 | -21 | 3 | 171 | 995 | -30 | 0 | 0 | 993 | -30 | 2 | 338 | 968 | -16 | 33 | 360 |
| 989 | -24 |  | 198 | 995 | -21 | 4 | 171 | 996 | -28 | 0 | 0 | 991 | -27 | 0 | 0 | 966 | -14 | 43 | 360 |
| 989 | -21 |  | 181 | 995 | -21 | 2 | 177 | 997 | -26 | 0 | 0 | 989 | -26 | 0 | 0 | 964 | -6 |  | 309 |
| 990 | -22 |  | 185 | 995 | -22 | 2 | 199 | 998 | -28 | 0 | 0 | 985 | -27 | 0 | 0 | 964 | -10 |  | 17 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-19.1$ Std dev $=5.8$ max $=-6.4$ at 1800 GMT ON day 28 min $=-35.0$ at 1330 GMt on day 30
* theta (K) * MEAN = 255.32
* PRESSURE (MB) * MEAN $=983.6$ STD DEV $=12.0$ MAX $=1010.4$ at 150 GMT ON DAY 4 MIN $=964.0$ at 2050 GMt ON DAY 28
* WINDS (M/S) * MEAN $=3.4$ STD DEV $=2.5$ RESULTANT $=2.3$ fROM 185. CONSTANCY $=0.69 \mathrm{MAX}=13.0$ FROM 178 . AT 300 GMT DAY 21
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllllllll}\text { PERCENT } & 8 & 4 & 2 & 2 & 0 & 2 & 3 & 8 & 38 & 24 & 3 & 2 & 1 & 0 & 1 & 4\end{array}$

|  |  | DAY | 1 |  |
| :--- | :--- | :--- | :--- | ---: |
| 00 | 992 | -35 | 0 | 0 |
| 03 | 993 | -36 | 0 | 0 |
| 06 | 993 | -39 | 2 | 226 |
| 09 | 993 | -38 | 0 | 0 |
| 12 | 993 | -36 | 0 | 0 |
| 15 | 993 | -34 | 1 | 225 |
| 18 | 993 | -32 | 0 | 0 |
| 21 | 993 | -27 | 0 | 0 |
|  |  | DAY | 8 |  |

$00 \quad 982-15 \quad 1310$
$03 \quad 980-14 \quad 5330$
$\begin{array}{llll}06 & 974 & -11 & 8 \\ 344\end{array}$
$\begin{array}{lllll}09 & 969 & -9 & 8 & 345\end{array}$

| 12 | 965 | -7 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}15 & 968 & -9 & 5 & 229\end{array}$
$\begin{array}{lllll}18 & 971 & -8 & 8 & 219\end{array}$
$\begin{array}{llll}21 & 976 & -9 & 10 \\ 212\end{array}$ DAY 15
$\begin{array}{lllll}00 & 977 & -20 & 3 & 187\end{array}$
$\begin{array}{llll}03 & 979 & -22 & 2189\end{array}$
$\begin{array}{lllll}06 & 981 & -24 & 3 & 180\end{array}$
$\begin{array}{llll}09 & 982 & -23 & 3 \\ 191\end{array}$
$\begin{array}{llll}12 & 984 & -23 & 3\end{array} 196$
15 985-21 2215
$\begin{array}{llll}18 & 986-19 & 0 & 0\end{array}$
$\begin{array}{lllll}21 & 988 & -24 & 0 & 0\end{array}$ DAY 22
00 993-22 0
$\begin{array}{llll}03 & 992 & -24 & 0\end{array} 0$
06 991-24 0
09 989-22 00
$\begin{array}{lllll}12 & 989 & -21 & 0 & 0\end{array}$
$\begin{array}{llll}15 & 989-19 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 989 & -12 & 0\end{array}$
$\begin{array}{llll}21 & 991-12 \quad 0 & 0\end{array}$

## DAY 29

00 994-11 0 0
$\begin{array}{llll}03 & 992 & -9 & 2300\end{array}$
$\begin{array}{lllll}06 & 991 & -8 & 2 & 25\end{array}$
$\begin{array}{lllll}09 & 989 & -6 & 3 & 260\end{array}$
$\begin{array}{lllll}12 & 988 & -4 & 3 & 268\end{array}$
$\begin{array}{lllll}15 & 989 & -3 & 3 & 281\end{array}$
$\begin{array}{lllll}18 & 990 & -3 & 519\end{array}$
$21991-2 \quad 4226$

DAY 2
992-25 0 $\begin{array}{llll}991 & -24 & 0 & 0\end{array}$ $\begin{array}{llll}990 & -22 & 1 & 92\end{array}$ $\begin{array}{llll}990 & -22 & 1 & 81\end{array}$ $\begin{array}{llll}989 & -22 & 3 & 61\end{array}$ 988-21 0 986-21 0 985-20 0 DAY 9
$\begin{array}{llll}981 & -9 & 7 & 187\end{array}$
985-13 4199
988-14 2182
990-18 2322
989-13 4330
987-11 4337
$\begin{array}{llll}985 & -9 & 3 & 351\end{array}$
$\begin{array}{llll}982 & -7 & 5 & 351\end{array}$ DAY 16
989-20 4206
991-18 0
992-19 2191
$994-19 \quad 3192$
996-20 2189
$998-20 \quad 5189$
1000-20 2195
1000-20 2198 DAY 23
994-10 0 0
$\begin{array}{llll}996 & -8 & 7 & 191\end{array}$
999-16 4135
1001-20 2222
1001-20 250
1001-18 0 0
1001-14 0 0 DAY 3
985-20 0
983-20 0
983-21 0
984-23 0 0
985-23 0

| 985 | -24 | 2 |
| :--- | :--- | :--- | 196

$\begin{array}{llll}986 & -23 & 4 & 189\end{array}$
$\begin{array}{llll}988 & -23 & 7 & 188\end{array}$ DAY 10
$\begin{array}{llll}981 & -7 & 3 & 324\end{array}$
$\begin{array}{llll}981 & -5 & 4 & 315\end{array}$
$\begin{array}{llll}981 & -2 & 3 & 317\end{array}$
$\begin{array}{llll}981 & -1 & 3 & 309\end{array}$
$\begin{array}{llll}981 & -1 & 5 & 306\end{array}$
$\begin{array}{llll}981 & -1 & 4 & 303\end{array}$
$979 \quad 3 \quad 5310$
$980 \quad 4 \quad 5284$ DAY 17
1001-20 1217
1000-20 0 0
1000-19 2281
998-19 2312
997-23 2345
$\begin{array}{llll}996 & -23 & 0 & 0\end{array}$
$\begin{array}{llll}994 & -26 & 1360\end{array}$
$993-26 \quad 0 \quad 0$ DAY 24
$\begin{array}{llll}1000 & -9 & 322\end{array}$
$\begin{array}{lll}999 & -6 & 7 \\ 241\end{array}$
$\begin{array}{llll}999 & -3 & 8 & 206\end{array}$
$\begin{array}{llll}998 & -3 & 3 & 251\end{array}$
$\begin{array}{llll}995 & -7 & 3 & 265\end{array}$
$\begin{array}{llll}993 & -1 & 7 & 213\end{array}$
991 -1 4203
991 -4 5223 DAY 31
$\begin{array}{llll}991 & -3 & 2133\end{array}$
$991 \quad 0 \quad 6241$
$990-1 \quad 4254$
99104243
$\begin{array}{llll}993 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}994 & -6 & 2 & 281\end{array}$
$\begin{array}{llll}994 & -9 & 3 & 313\end{array}$
$993-10 \quad 3296$

PP TT VV DD. PP TT VV DD DAY 4
989-22 8171
$991-216168$
$993-21 \quad 7165$
$994-21 \quad 6172$
996-22 7171
$996-216165$
996-22 0
995-22 4177 DAY 11
$982 \quad 24298$
$\begin{array}{lllllll}985 & 1 & 2 & 222 & 974 & 3 & 6340\end{array}$
$\begin{array}{llllllll}987 & 0 & 6 & 275 & 971 & 2 & 6 & 329\end{array}$
$\begin{array}{llllllll}987 & -2 & 4 & 300 & 968 & 0 & 8 & 343\end{array}$
$\begin{array}{llllllll}986 & 1 & 6 & 248 & 968 & 2 & 6 & 307\end{array}$
$\begin{array}{llll}987 & -4 & 3 & 21\end{array}$
$983-2 \quad 6354$
$\begin{array}{llll}980 & -1 & 5 & 357\end{array}$ DAY 18
992-27 1351
991-25 00
$\begin{array}{llll}990 & -27 & 0 & 0\end{array}$
989-31 0
989-31 0
$\begin{array}{llll}988 & -30 & 1 & 165\end{array}$
988-26 00
988-30 0
DAY 25
$\begin{array}{llll}992 & -4 & 5 & 175\end{array}$
998-12 $8 \quad 122$
1004-16 4135
1007-21 4 201
1006-25 2255
1007-20 3281
1007-14 6 243

| 1007 | -8 | 6 |
| :--- | :--- | :--- |

DAY 5
995-22 3195
993-22 2212
991-22 0
990-23 1340
989-23 3333
988-20 4312
986-19 4310
985-18 2296 DAY 12
$977 \quad 3 \quad 8333$
$\begin{array}{llll}968 & 0 & 8 & 343 \\ 968 & 2 & 6 & 307\end{array}$
$971 \quad 0 \quad 5303$
$\begin{array}{llll}974 & -1 & 5 & 300\end{array}$ DAY 19
989-28 0
991-29 0
991-30 0
991-31 0
$\begin{array}{llll}991 & -30 & 0 & 0\end{array}$
990-24 0
991-22 0
991-26 0
DAY 26
1008-10 2307
1007-11 3331
$\begin{array}{llll}1004 & -4 & 1 & 84\end{array}$
$\begin{array}{llll}1002 & -1 & 4 & 199\end{array}$
$\begin{array}{llll}1001 & -1 & 8 & 188\end{array}$
$\begin{array}{llll}1000 & -1 & 5 & 191\end{array}$

PP TTVV DD DAY 6
$\begin{array}{lll}985 & -17 & 2\end{array} 277$
986-15 3230
986-17 1234
987-21 1244
987-19 3315
987-19 2336
$\begin{array}{llll}985 & -17 & 548\end{array}$
983-15 5348 DAY 13
$\begin{array}{llll}977 & -1 & 4 & 236\end{array}$
$\begin{array}{llll}979 & -1 & 1 & 199\end{array}$

PP TTVV DD DAY 7
$980-136355$
976-13 6354
$973-13 \quad 5360$
972-11 2189
$\begin{array}{llll}974 & -8 & 5 & 188\end{array}$
977-12 4184
979-12 4195
$\begin{array}{lll}981 & -13 & 5 \\ 201\end{array}$ DAY 14
$981 \quad 0 \quad 3258 \quad 970$-9 5268
$\begin{array}{llllllll}983 & -5 & 2 & 310 & 970 & -10 & 4 & 254\end{array}$
$\begin{array}{llllllll}982 & -6 & 1 & 77 & 970 & -11 & 3 & 257\end{array}$
$\begin{array}{llllllll}981 & -3 & 3 & 12 & 972 & -9 & 3 & 212\end{array}$
$\begin{array}{llllllll}979 & -2 & 4 & 30 & 973 & -13 & 2 & 210\end{array}$
$\begin{array}{llllllll}975 & -1 & 4 & 46 & 975 & -18 & 2 & 189\end{array}$ DAY 21
991-25 0
$\begin{array}{llll}992 & -27 & 0 & 0 \\ 992 & -29 & 0 & 0\end{array}$
992-28 00
$\begin{array}{llll}991 & -25 & 0 & 0\end{array}$
991-25 0
$\begin{array}{llll}990 & -24 & 0 & 0\end{array}$
990-24 0 0
993-22 0
$\begin{array}{llllllll}990 & -23 & 0 & 0 & 993 & -24 & 0 & 0\end{array}$
DAY 28
1006-10 1172
1007-14 2127
$\begin{array}{lllllll}1008 & -17 & 0 & 0 & 1001 & -12 & 0\end{array}$
$\begin{array}{lllllll}1006 & -17 & 0 & 0 & 999 & -11 & 4360\end{array}$
1005-14 0 0
1006-12 0
$\begin{array}{llll}1007 & -8 & 0 & 0\end{array}$
1008-10 175

* temperature ( $C$ ) * mean $=-14.7$ Std dev $=9.5$ max $=4.8$ at 2050 GMT ON day 10 min $=-39.1$ at 750 GMt ON dAY 1
* theta (K) * MEAN $=259.22$
* PRESSURE (MB) * MEAN $=989.4$ STD DEV $=9.2$ MAX $=1008.0$ AT 500 GMT ON DAY 27 MIN $=964.7$ AT 1210 GMT ON DAY 8
* WINDS (M/S) * MEAN $=2.5$ STD DEV $=2.4$ RESULTANT $=1.0$ FROM 253. CONSTANCY $=0.38$ MAX $=14.2$ FROM 281. AT 2030 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$
 PERCENT:
Wind direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 7 & 4 & 1 & 2 & 2 & 1 & 2 & 2 & 15 & 13 & 10 & 7 & 7 & 6 & 11 & 10\end{array}$

HR PP TT WV DD DAY 1
00 994 -15 1255
$\begin{array}{llll}03 & 994 & -15 & 1 \\ 285\end{array}$
$\begin{array}{llll}06 & 993 & -16 & 243\end{array}$
$\begin{array}{lllll}09 & 993 & -17 & 284\end{array}$
$\begin{array}{llll}12 & 995 & -19 & 1 \\ 289\end{array}$
$\begin{array}{lllll}15 & 996 & -18 & 1 & 275\end{array}$
$\begin{array}{llll}18 & 997 & -14 & 0\end{array} 0$
$\begin{array}{llll}21 & 999 & -17 & 0\end{array} 0$ DAY 8
001009 -33 2310
031008 -32 1317
$061004-29 \quad 3331$
$\begin{array}{llll}09 & 999 & -29 & 2327\end{array}$
$\begin{array}{lllll}12 & 995 & -28 & 2330\end{array}$
$\begin{array}{llll}15 & 993 & -22 & 379\end{array}$
$\begin{array}{lllll}18 & 991 & -14 & 0 & 0\end{array}$
$\begin{array}{lll}21 & 991 & -19 \\ 3 & 251\end{array}$ DAY 15
$001003-5 \quad 5251$
031001 -1 10244
$061001 \quad 1 \quad 7236$
$091002-1 \quad 6219$
121001 -4 2241
$\begin{array}{lllll}15 & 999 & -3 & 4 & 260\end{array}$
$\begin{array}{lllll}18 & 997 & -2 & 5 & 257\end{array}$
$\begin{array}{llll}21 & 995 & -4 & 5 \\ 241\end{array}$
DAY 22
$\begin{array}{llll}00 & 997 & -24 & 2171\end{array}$
$\begin{array}{lllll}03 & 996 & -24 & 3 & 140\end{array}$
$\begin{array}{lllll}06 & 996 & -25 & 2 & 157\end{array}$
$\begin{array}{lllll}09 & 996 & -25 & 2 & 147\end{array}$
$\begin{array}{lllll}12 & 996 & -25 & 1 & 180\end{array}$
$\begin{array}{lllll}15 & 997 & -25 & 1 & 189\end{array}$
$\begin{array}{llll}18 & 997 & -25 & 0\end{array} 0$
$\begin{array}{llll}21 & 998 & -25 & 0\end{array} 0$
DAY 29
00 1005-30 0 0
03
06 1003-29 0
09
12
15
18
21

| PP |  | V | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 1001 | -15 | 0 | 0 | 999 | -14 | 0 | 0 |
| 1002 | -13 | 0 | 0 | 997 | -11 | 2 | 30 |
| 1002 | -14 | 1 | 19 | 994 | -9 | 5 | 53 |
| 1002 | -12 | 2 | 37 | 993 | -5 | 3 | 336 |
| 1001 | -11 | 1 | 352 | 993 | -8 | 3 | 251 |
| 1001 | -13 | 0 | 0 | 994 | -13 | 2 | 233 |
| 1000 | -14 | 0 | 0 | 994 | -14 | 2 | 222 |
| 1000 | -16 | 0 | 0 | 993 | -16 | 3 | 212 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 993 | -14 | 5 | 191 | 984 | -6 | 0 | 0 |
| 997 | -21 |  | 216 | 982 | -2 | 8 | 196 |
| 998 | -21 | 0 | 0 | 982 | -6 | 6 | 165 |
| 997 | -20 | 2 | 299 | 982 | -9 | 6 | 208 |
| 995 | -21 | 0 | 0 | 983 | -10 | 11 | 195 |
| 992 | -22 | 0 | 0 | 988 | -11 | 10 | 142 |
| 989 | -18 | 0 | 0 | 997 | -15 | 7 | 150 |
| 987 | -10 | 0 | 0 | 1001 | -20 | 5 | 185 |
|  | DAY | 16 |  |  | DAY | 17 |  |
| 994 | -5 | 2 | 319 | 985 | -10 | 1 | 327 |
| 992 | -4 | 1 | 234 | 983 | -7 | 2 | 295 |
| 990 | -8 | 3 | 351 | 983 | -9 | 1 | 167 |
| 990 | -8 | 2 | 336 | 984 | -11 | 9 | 120 |
| 988 | -7 | 0 | 0 | 987 | -14 | 4 | 150 |
|  |  |  |  | 987 | -15 | 5 | 146 |
| 986 | -12 | 2 | 310 | 988 | -16 | 5 | 144 |
| 985 | -8 | 5 | 312 | 990 | -18 | 2 | 189 |
|  | DAY | 23 |  |  | DAY | 24 |  |
| 998 | -25 | 0 | 0 | 1000 | -30 | 1 | 4 |
| 999 | -25 | 0 | 0 | 999 | -35 | 0 | 0 |
| 1000 | -25 | 0 | 0 | 999 | -35 | 1 | 32 |
| 1000 | -25 | 0 | 0 | 999 | -36 | 1 | 18 |
| 1001 | -26 | 0 | 0 | 1000 | -37 | 0 | 0 |
| 1001 | -27 | 0 | 0 | 1002 | -37 | 0 | 0 |
| 1001 | -27 |  | 323 | 1003 | -37 | 0 | 0 |
| 1001 | -27 | 0 | 0 | 1006 | -37 | 0 | 0 |

PP TT VV DD PP TT VV DD DAY 3
999-14 0
$\begin{array}{llll}994 & -9 & 5 & 53\end{array}$
$\begin{array}{llll}993 & -5 & 3 & 336\end{array}$
$993-8 \quad 3251$
994-13 2233
994-14 2222
DAY 10
$\begin{array}{llll}984 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}982 & -2 & 8 & 196\end{array}$
$\begin{array}{llll}982 & -6 & 6 & 165\end{array}$
$\begin{array}{llll}982 & -9 & 6 & 208\end{array}$
$983-1011195$
$997-15 \quad 7150$

## DAY 17

985-10 1327
$\begin{array}{lll}983 & -7 & 2295\end{array}$
$\begin{array}{llll}983 & -9 & 1 & 167\end{array}$
$\begin{array}{llll}984 & -11 & 9 & 120\end{array}$
987-14 4150
987-15 5146
988-16 5144
990-18 2189 DAY 24
$\begin{array}{rrrr}1000 & -30 & 1 & 4\end{array}$
$\begin{array}{llll}999 & -35 & 1 & 32\end{array}$
999-36 118
1000-37 0 0
$\begin{array}{llll}1002 & -37 & 0 & 0 \\ 1003 & -37 & 0 & 0\end{array}$
1006-37 0 0


| PP |  |  |  |
| :---: | :---: | :---: | :---: |
| DT | DV | DD |  |
| DAY | 5 |  |  |
| 1002 | -22 | 1 | 104 |
| 1003 | -22 | 2 | 113 |
| 1004 | -25 | 1 | 137 |
| 1003 | -24 | 3 | 129 |
| 1003 | -23 | 3 | 126 |
| 1003 | -23 | 3 | 135 |
| 1002 | -23 | 3 | 163 |
| 1000 | -24 | 5 | 167 |

DAY 12
998-19 0
$\begin{array}{llll}998 & -18 & 0 & 0 \\ 998 & -18 & 0 & 0\end{array}$
999-21 0
$\begin{array}{ccc}1000 & -13 & 0\end{array} 0$
1001-22 0
$\begin{array}{llll}1001 & -23 & 0 & 0 \\ 1001 & -24 & 0 & 0\end{array}$
$\begin{array}{cccc}1001 & -24 & 0 & 0\end{array}$ DAY 18
$\begin{array}{llll}991 & -26 & 3 & 171\end{array}$
$\begin{array}{llll}991 & -26 & 1 & 188\end{array}$
$\begin{array}{llll}991 & -29 & 0 & 0\end{array}$
990-31 0
$\begin{array}{llll}990 & -32 & 1 & 5\end{array}$
$\begin{array}{lll}989 & -30 & 2360\end{array}$
988-29 1347
989-28 0
DAY 25
1009-38 0
1011-39 0
1013-39 00
1015-38 0
$\begin{array}{llll}1015 & -39 & 0 & 0 \\ 1015 & -40 & 0 & 0\end{array}$
1015-40 0 0
1014-40 0 0
1013-40 0

DAY 19
989-30 0
990-29 2151
$\begin{array}{lll}992 & -28 & 1144\end{array}$
$\begin{array}{llll}994 & -28 & 0 & 0\end{array}$
994-30 0
$\begin{array}{llll}994 & -31 & 0 & 0\end{array}$
$\begin{array}{llll}994 & -30 & 2 & 88\end{array}$
994 -28 1.66
DAY 26
1012-39 0
1011-40 0 0
1010-39 0 0
1009-39 0 0
1008-40 0
1008-41 0 0
1008-42 0
1008-41 0 0

PP TT VV DD DAY 6
1000-24 6178
1001 -24 6178
1003-24 7174
1004-24 6201
$\begin{array}{llll}1006 & -25 & 3 & 198\end{array}$
1009-23 4182
$\begin{array}{llll}1009 & -22 & 3 & 194\end{array}$
$\begin{array}{llll}1010 & -26 & 3 & 198\end{array}$ DAY 13

| 1001 | -20 | 0 | 0 | 1008 | 0 | 6 | 212 |
| ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| 1001 | -17 | 0 | 0 | 1008 | 0 | 5 | 243 |
| 1001 | -14 | 0 | 0 | 1008 | -2 | 6 | 230 |
| 1002 | -10 | 0 | 0 | 1008 | -1 | 8 | 212 |
| 1004 | -11 | 0 | 0 | 1008 | -2 | 5 | 187 |
| 1005 | -12 | 0 | 0 | 1006 | -1 | 4 | 223 |
| 1005 | -9 | 0 | 0 | 1005 | -6 | 1 | 265 |

$\begin{array}{llllllll}1006 & -6 & 0 & 0 & 1004 & -8 & 3 & 279\end{array}$ DAY 20
$\begin{array}{llll}995 & -29 & 1 & 75\end{array}$
$\begin{array}{llll}995 & -27 & 1 & 88\end{array}$
$\begin{array}{llll}994 & -26 & 0 & 0\end{array}$
993-26 0
992-26 0
992-25 0
$\begin{array}{llll}991 & -25 & 0 & 0\end{array}$
992-25 0 0
DAY 27
1008-39 0 0
1008-38 0 0
1006-37 0 0
1006-36 0
1005-37 0 0
1005-39 0 0
1004-39 0 0
1004-40 0

PP TT WV DD DAY 7
1011-27 3189 1011-27 2174 $\begin{array}{llll}1011 & -25 & 3 & 185\end{array}$ $\begin{array}{llll}1010 & -27 & 3 & 177\end{array}$ $\begin{array}{llll}1011 & -27 & 2187\end{array}$ $\begin{array}{llll}1011 & -27 & 3 & 187\end{array}$ 1011-31 2217 1010-31 1216 DAY 14
100806212 $1008 \quad 0 \quad 5243$
$\begin{array}{lll}1008 & -1 & 812\end{array}$
$\begin{array}{lll}1008 & -2 & 5187\end{array}$
$\begin{array}{llll}1006 & -1 & 4223\end{array}$

DAY 21
993-26 0
$\begin{array}{llll}994 & -26 & 6 & 184\end{array}$
996-25 0
997-25 6184
1000-24 0 0
1000-24 2180
999-24 1180
998-24 2156
DAY 28
1004-39 0
1005-39 0 0

1006-32 0

1005-30 0

Y SUMMARY

* temperature ( $C$ ) * mean $=-21.9$ Std dev $=10.7$ maX $=1.8$ at 100 GMT ON day 14 MIN $=-41.9$ at 1810 GMt on day 26
* theta (K) * MEAN $=251.32$
* PRESSURE (MB) * MEAN $=999.0$ STD DEV $=7.4$ MAX $=1015.0$ AT 1150 GMT ON DAY 25 MIN $=981.2$ AT 730 GMT ON DAY 10
* WINDS (M/S) * MEAN $=1.8$ STD DEV = 2.3 RESULTANT $=1.0$ FROM 198. CONSTANCY $=0.53$ MAX $=14.5$ FROM 127. AT 1510 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.9 \%$ PRESSURE: $7.9 \%$ UINDS: $7.9 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 $18-20$ 20-25 $25-30$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 4 & 3 & 2 & 2 & 2 & 3 & 7 & 9 & 21 & 9 & 9 & 8 & 4 & 6 & 5 & 6\end{array}$


DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14
00
03
06
09
12
15
18
21
DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

$$
\begin{array}{llll}
990 & -39 & 2 & 284 \\
990 & -37 & 1 & 289
\end{array}
$$

DAY 29
DAY 30
DAY 31

```
977 -34 0 0
975 -33 0 0
```

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=$ ****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY $O$
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=$ ****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $98.0 \%$ PRESSURE: $98.0 \%$ WINDS: $98.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

$\begin{array}{llll}994 & -29 & 0 & 0\end{array}$
994 -3100

DAY 22
DAY 23

993-26 $0 \quad 0$
$\begin{array}{lllllllllllll}994 & -26 & 0 & 0 & 984 & -24 & 0 & 0 & 959 & -28 & 11 & 201\end{array}$

DAY 26
$\begin{array}{llllllll}965 & -29 & 0 & 0 & 978 & -29 & 0 & 0\end{array}$
$\begin{array}{llll}986 & -27 \quad 4 & 182\end{array}$
987-30 0 988-33 0 0
DAY 27 985-36 0 0

DAY 28
986-14 0
985-13 $\quad 0 \quad 0$


| 982 | -22 | 3 | 198 | 955 | -7 | 4 | 139 |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 980 | -20 | 0 | 0 | 952 | -12 | 9 | 143 | 958 | -14 | 7 | 61 |
| 977 | -19 | 0 | 0 | 950 | -13 | 9 | 156 | 966 | -16 | 5 | 95 |
| 974 | -19 | 0 | 0 | 949 | -14 | 7 | 177 | 970 | -14 | 5 | 144 |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN = 0.0 STD DEV $=0.0$ MAX =****** AT O GMT ON DAY O MIN =****** AT OMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $76.2 \%$ PRESSURE: $76.2 \%$ WINDS: $76.2 \%$

 $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-23.8$ Std dev $=8.6 \mathrm{max}=1.0$ at 1810 GMt ON day 27 MIN $=-42.4$ at 1040 GMt ON day 7
* theta (K) * MEAN = 250.24
* PRESSURE (MB) * MEAN $=988.4$ STD DEV $=14.9$ MAX $=1015.4$ AT 330 GMT ON DAY 23 MIN $=941.4$ AT 1650 GMT ON DAY 10
* WINDS (M/S) * MEAN $=2.2$ STD DEV $=2.5$ RESULTANT $=1.6$ FROM 183. CONSTANCY $=0.71$ MAX $=11.9$ FROM 171. AT 1940 GMT DAY 11
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.3 \%$ PRESSURE: $3.3 \%$ WINDS: $42.5 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 $16-18$ 18-20 $20-25 \quad 25-30 \quad 30-35 \quad 35-40 ~ 40-45 ~ 45-50 ~ 50-55 ~ 55-60 ~ 60+~$
 $\begin{array}{lllllllllllllllll} & 8 & 1 & 4 & 0 & 0 & 3 & 3 & 15 & 33 & 21 & 4 & 4 & 3 & 0 & 3 & 1\end{array}$

OCT 97
HR PP TT WV DD DAY 1
00 1007-13 3210
03 1007-11 3264
06 1007-11 2286
09 1008-12 3326
$\begin{array}{llll}12 & 1008 & -10 & 1344\end{array}$
$\begin{array}{lllll}15 & 1008 & -5 & 3 & 262\end{array}$
18
$\begin{array}{llll}21 & 1004 & -5 & 1327\end{array}$ DAY 8
$\begin{array}{llll}00 & 986 & -16 & 2112\end{array}$
$\begin{array}{lllll}03 & 986 & -16 & 3 & 132\end{array}$

| 06 | 986 | -16 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}09 & 986 & -16 & 3 & 147\end{array}$
$\begin{array}{llll}12 & 986 & -15 & 3\end{array} 137$
$\begin{array}{llll}15 & 988 & -14 & 3\end{array} 158$
$\begin{array}{lllll}18 & 989 & -14 & 2 & 147\end{array}$
$\begin{array}{lllll}21 & 990 & -14 & 1 & 163\end{array}$ DAY 15
$\begin{array}{lllll}00 & 991 & -25 & 5 & 206\end{array}$
$\begin{array}{lllll}03 & 990 & -24 & 7 & 177\end{array}$
$\begin{array}{lllll}06 & 991 & -26 & 6 & 174\end{array}$
$\begin{array}{lllll}09 & 993 & -31 & 3 & 192\end{array}$
$\begin{array}{lllll}12 & 995 & -27 & 4 & 185\end{array}$
$\begin{array}{llll}15 & 996 & -21 & 3 \\ 201\end{array}$
$\begin{array}{llll}18 & 996 & -19 & 208\end{array}$
21 996-21 2239
DAY 22
$\begin{array}{lllll}00 & 975 & -16 & 1 & 175\end{array}$
$\begin{array}{llll}03 & 976 & -17 & 2\end{array} 178$
$\begin{array}{llll}06 & 976 & -18 & 0\end{array}$
$\begin{array}{llll}09 & 976 & -18 & 0\end{array} 0$
$\begin{array}{llll}12 & 977-15 & 0 & 0\end{array}$ 15
$\begin{array}{lllll}18 & 978 & -10 & 1 & 74\end{array}$
$\begin{array}{llll}21 & 980-13 & 143\end{array}$ DAY 29
$00 \quad 976$-10 6203
$\begin{array}{llllll}03 & 980 & -13 & 4 & 189\end{array}$
$\begin{array}{lllll}06 & 982 & -17 & 4 & 177\end{array}$
$\begin{array}{lllll}09 & 983 & -21 & 1 & 182\end{array}$
$\begin{array}{llll}12 & 983 & -14 & 0\end{array} 0$
$\begin{array}{lllll}15 & 982 & -9 & 1 & 40\end{array}$
$\begin{array}{lllll}18 & 981 & -8 & 2360\end{array}$
$\begin{array}{llll}21 & 981-11 & 1 & 36\end{array}$

PP TT VV DD PP TT VV DD DAY 2
1003-11 1264
1002-13 0
1000-13 1326
999-15 1219
998-16 3150
999-11 3127
$\begin{array}{llll}999 & -9 & 3 & 102\end{array}$
1001 -14 2135
DAY 9
992-15 3215
993-15 1201
993-16 0 0
994-16 0
994-12 0
994-11 0 0
994-12 1358
$994-15 \quad 1313$ DAY 16
996-26 1220
$\begin{array}{lll}995 & -25 & 0\end{array}$
$\begin{array}{llll}994 & -23 & 2 & 99\end{array}$
993-21 0
992-19 $2 \quad 75$
$\begin{array}{llll}992 & -18 & 2 & 87\end{array}$
991-17 1 1 68
991-17 0 0
DAY 23
982-15 3164
984-15 2171
986-15 2180
989-16 $\quad 3163$
991-15 3163
993-14 5153
994-15 4144
994-18 1171 DAY 30
$\begin{array}{llll}980 & -15 & 26\end{array}$
980-16 214
978-13 5360
$977-13 \quad 5352$
975-10 6348
$\begin{array}{llll}972 & -9 & 5 & 351\end{array}$
$\begin{array}{llll}969 & -7 & 4 & 360\end{array}$
$\begin{array}{lll}967 & -6 & 2338\end{array}$

| PP |  |  | TT |
| ---: | ---: | ---: | ---: |
|  | DA | DD |  |
| DAY | 3 |  |  |
| 1002 | -17 | 2 | 158 |
| 1003 | -17 | 2 | 115 |
| 1003 | -18 | 2 | 82 |
| 1003 | -17 | 1 | 73 |
| 1004 | -16 | 2 | 66 |
| 1005 | -13 | 1 | 87 |
| 1004 | -13 | 1 | 45 |
| 1005 | -15 | 0 | 0 | DAY 10

995-17 0 0
996-17 1350
996-17 0 0
997-18 0
998-18 0
998-17 3347
997-14 4338
997-17 2338 DAY 17
990-19 0 0 990-20 0 989-20 0 988-20 0 987-18 0 986-18 0 0
985-18 2182
984-18 2192

## DAY 24

994-24 2188
994-29 0
994-30 1360
994-32 111
$\begin{array}{llll}996 & -21 & 1 & 19\end{array}$
996-18 2302
994-16 1300
990 -20 316 DAY 31
968-11 0 0
$\begin{array}{llll}967 & -18 & 1 & 109\end{array}$
$\begin{array}{llll}966 & -17 & 2 & 90\end{array}$
$\begin{array}{llll}967 & -16 & 4 & 143\end{array}$
$\begin{array}{llll}968 & -17 & 0 & 0\end{array}$
970-15 7171
$\begin{array}{llll}971 & -15 & 8 & 167\end{array}$
972-16 7171

PP TT WV DD DAY 7
991-15 1216
991-15 0
991-16 1181
990-17 0
990-15 2149
989-14 2132
988-14 2125
987-16 3115 DAY 14
$\begin{array}{llll}978 & -23 & 6170\end{array}$
$\begin{array}{llll}980 & -28 & 5 & 178\end{array}$
$982-296181$
984-28 9177
$\begin{array}{llll}987 & -28 & 8 & 203\end{array}$
988 -24 7201
989-22 8203
990 -22 9195 DAY 21
974-19 1279
974-20 0
$\begin{array}{lll}973 & -24 & 2 \\ 302\end{array}$
972-22 0
973-15 0
973-11 0
974-13 1210
974-15 2222
DAY 28
982-10 2292
980-10 2310
978-12 3246
977-10 2326
$\begin{array}{llll}976 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}975 & -2 & 3 & 174\end{array}$
972 -4 9195
$\begin{array}{llll}975 & -4 & 7 & 191\end{array}$

* temperature ( $C$ ) * mean $=-16.6$ Std dev $=5.6$ max $=0.2$ at 1900 GMT ON day 25 min $=-33.1$ at 740 GMT ON DAY 24
* THETA (K) * MEAN $=257.55$
* PRESSURE (MB) * MEAN $=987.2$ STD DEV $=10.2$ MAX $=1008.3$ AT 1040 GMT ON DAY 1 MIN $=965.7$ AT 500 GMT ON DAY 31
* WINDS (M/S) * MEAN = 2.3 STD DEV = 2.1 RESULTANT $=1.0$ FROM 188. CONSTANCY $=0.45$ MAX $=11.4$ FROM 191. AT 2030 GMT DAY 25
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $1.2 \%$ WINDS: $1.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ $\begin{array}{llllllllllllllll}\text { PERCENT: } & 53 & 30 & 9 & 5 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
$\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 8 & 6 & 2 & 3 & 3 & 3 & 7 & 9 & 20 & 14 & 6 & 3 & 4 & 4 & 4 & 6\end{array}$

| HR | PP | $\begin{array}{r} \mathrm{TT} \\ \mathrm{DAY} \end{array}$ | VV 1 | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 3 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { VV } \\ 4 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 5 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | VV 6 | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | 7 | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 975 | -18 | 8170 | 987 | -19 | 2 | 329 | 984 | -16 | 1 | 360 | 985 | -16 | 5 | 143 | 982 | -20 | 3 | 188 | 986 | -21 | 0 | 0 | 983 | -21 | 2 | 154 |
| 03 | 978 | -19 | 5184 | 987 | -22 | 2 | 336 | 983 | -17 | 2 | 360 | 985 | -17 | 3 | 118 | 982 | -20 | 3 | 184 | 985 | -26 | 2 | 347 | 985 | -29 | 1 | 165 |
| 06 | 980 | -21 | 6175 | 987 | -23 | 1 | 300 | 982 | -15 | 2 | 360 | 984 | -18 | 4 | 113 | 983 | -23 | 2 | 194 | 984 | -21 | 3 | 360 | 985 | -28 | 1 | 180 |
| 09 | 983 | -21 | 7182 | 986 | -22 | 2 | 302 | 981 | -13 | 2 | 5 | 983 | -18 | 4 | 109 | 984 | -19 | 3 | 187 | 983 | -19 | 3 | 8 | 986 | -29 | 2 | 154 |
| 12 | 986 | -19 | 6175 | 985 | -14 | 1 | 300 | 980 | -10 | 3 | 360 | 982 | -18 | 4 | 116 | 985 | -17 | 2 | 189 | 982 | -15 | 2 | 8 | 987 | -20 | 0 | 0 |
| 15 | 987 | -16 | 5167 | 984 | -10 | 3 | 1 | 980 | -6 | 1 | 357 | 982 | -17 | 4 | 120 | 987 | -15 | 3 | 178 | 982 | -14 | 2 | 23 | 988 | -15 | 2 | 149 |
| 18 | 988 | -11 | 1203 | 984 | -7 | 3 | 360 | 981 | -8 | 2 | 192 | 981 | -18 | 4 | 147 | 987 | -14 | 3 | 188 | 982 | -13 | 1 | 50 | 989 | -15 | 5 | 156 |
| 21 | 988 | -13 | 2330 | 984 | -8 | 2 | 345 | 983 | -13 | 5 | 158 | 981 | -18 | 3 | 168 | 987 | -16 | 1 | 243 | 982 | -12 | 1 | 87 | 992 | -15 | 4 | 161 |
|  |  | DAY | 8 |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 993 | -20 | 3199 | 1003 | -14 | 3 | 167 | 1003 | -19 | 1 | 220 | 1004 | -18 | 4 | 209 | 997 | -12 | 3 | 177 | 996 | -11 | 3 | 188 | 1001 | -11 | 1 | 151 |
| 03 | 993 | -14 | 6205 | 1003 | -17 | 3 | 185 | 1003 | -25 | 2 | 203 | 1003 | -24 | 3 | 199 | 996 | -13 | 4 | 163 | 997 | -11 | 2 | 185 | 1002 | -13 | 1 | 129 |
| 06 | 993 | $-13$ | 6191 | 1004 | -21 | 3 | 175 | 1003 | -27 | 2 | 188 | 1003 | -27 | 3 | 196 | 995 | -14 | 2 | 177 | 997 | -11 | 3 | 185 | 1002 | -14 | 0 | 0 |
| 09 | 995 | -12 | 5160 | 1004 | -21 | 1 | 205 | 1004 | -23 | 2 | 171 | 1002 | -26 | 0 | 0 | 995 | -13 | 2 | 167 | 998 | -10 | 3 | 178 | 1002 | -15 | 1 | 140 |
| 12 | 997 | $-13$ | 5172 | 1004 | -15 | 3 | 213 | 1004 | -19 | 4 | 195 | 1002 | -20 | 0 | 0 | 995 | -11 | 4 | 167 | 999 | -10 | 4 | 174 | 1003 | -11 | 0 | 0 |
| 15 | 998 | -11 | 6171 | 1003 | -11 | 3 | 185 | 1004 | -15 | 4 | 195 | 1000 | -13 | 5 | 191 | 994 | -9 | 3 | 157 | 1000 | -9 | 5 | 165 | 1003 | -8 | 0 | 0 |
| 18 | 1000 | -10 | 4157 | 1003 | -9 | 3 | 189 | 1003 | -11 | 4 | 182 | 999 | -10 | 4 | 185 | 994 | -9 | 4 | 161 | 1000 | -8 | 4 | 158 | 1003 | -7 | 1 | 39 |
| 21 | 1001 | -12 | 2188 | 1003 | -10 | 2 | 205 | 1003 | -12 | 4 | 195 | 998 | -11 | 3 | 172 | 995 | -10 | 3 | 171 | 1001 | -9 | 2 | 139 | 1002 | -8 | 1 | 334 |
|  |  | DAY | 15 |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 1002 | -10 | 2327 | 989 | -7 | 1 | 312 | 990 | -11 | 2 | 316 | 992 | -4 | 1 | 19 | 997 | -4 | 3 | 203 | 1002 | -10 | 0 | 0 | 1001 | -8 | 2 | 284 |
| 03 | 1001 | -10 | 00 | 989 | -8 | 0 | 0 | 989 | -12 | 2 | 329 | 993 | -4 | 0 | 0 | 998 | -5 | 3 | 35 | 1002 | -10 | 0 | 0 | 1001 | -9 | 2 | 258 |
| 06 | 999 | -10 | 00 | 989 | -11 | 2 | 172 | 989 | -13 | 3 | 360 | 992 | -4 | 3 | 18 | 999 | -6 | 3 | 36 | 1002 | -10 | 2 | 84 | 1001 | -9 | 1 | 244 |
| 09 | 998 | -10 | 1199 | 990 | -15 | 2 | 199 | 990 | -9 | 0 | 0 | 992 | -4 | 2 | 8 | 1000 | -7 | 2 | 42 | 1002 | -9 | 1 | 16 | 1002 | -8 | 0 | 0 |
| 12 |  |  |  | 991 | -11 | 2 | 191 | 991 | -5 | 0 | 0 | 993 | -2 | 1 | 360 | 1001 | -7 | 3 | 54 | 1002 | -7 | 1 | 5 | 1001 | -6 | 1 | 195 |
| 15 | 994 | -6 | 00 | 991 | -10 | 2 | 223 |  |  |  |  |  |  |  |  | 1001 | -7 | 2 | 59 | 1002 | -4 | 0 | 0 | 1001 | -3 | 2 | 177 |
| 18 | 992 | -4 | 139 | 991 | -7 | 1 | 241 | 992 |  | 0 | 0 | 995 |  | 0 | 0 | 1002 | -6 | 2 | 66 | 1001 | -1 | 0 | 0 | 1001 | -2 | 1 | 116 |
| 21 | 990 | -6 | 2322 | 990 | -9 | 1 | 319 | 992 | 0 | 1 | 1 | 996 | 2 | 0 | 0 | 1002 | -6 | 1 | 94 | 1001 | -4 | 0 | 0 | 1001 | -3 | 1 | 140 |
|  |  | DAY | 22 |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 1001 | -5 | 00 | 1006 | -7 | 2 | 182 | 1005 | -5 | 2 | 147 | 1001 | -5 | 4 | 360 | 996 | -4 | 2 | 47 | 992 | -2 | 1 | 120 | 976 | -4 | 5 | 142 |
| 03 | 1002 | -7 | 1115 | 1006 | -8 | 1 | 222 | 1005 | -6 | 1 | 192 | 1001 | -6 | 3 | 360 | 995 | -4 | 2 | 61 | 990 | -2 | 2 | 135 | 977 | -4 | 5 | 161 |
| 06 | 1002 | -7 | 1130 | 1006 | -8 | 2 | 212 | 1004 | -8 | 1 | 161 | 1000 | -7 | 3 | 352 | 993 | -4 | 2 | 68 | 987 | -3 | 3 | 115 | 977 | -5 | 4 | 171 |
| 09 | 1003 | -7 | 1116 | 1006 | -7 | 4 | 195 | 1004 | -7 | 0 | 0 | 1000 | -7 | 4 | 360 | 993 | -3 | 0 | 0 | 985 | -3 | 3 | 122 | 979 | -5 | 5 | 187 |
| 12 |  |  |  | 1006 | -6 | 3 | 185 | 1004 |  | 0 | 0 | 1000 | -5 | 4 | 7 | 994 | -1 | 3 | 213 | 982 | -1 | 5 | 106 | 980 | -4 | 5 | 177 |
| 15 | 1004 | -4 | 2139 | 1006 | -4 | 6 | 177 |  |  |  |  | 999 | -4 | 4 | 36 | 994 | 1 | 2 | 181 | 978 | -1 | 4 | 105 | 981 | -2 | 7 | 192 |
| 18 | 1004 | -4 | 2156 | 1006 | -3 | 3 | 175 | 1002 | 0 | 2 | 344 | 998 | -3 | 6 | 29 | 993 | 2 | 1 | 156 | 977 | -1 | 6 | 120 | 982 | -2 | 6 | 181 |
| 21 | 1005 | -4 | 2174 | 1006 | -4 | 3 | 153 | 1001 | -2 | 2 | 360 | 997 | -3 | 4 | 37 | 992 | 0 | 2 | 158 | 976 | -2 | 2 | 115 | 984 | -2 | 4 | 182 |
|  |  | DAY | 29 |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 985 | -4 | 3192 | 995 | -3 | 2 | 251 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 987 | -6 | 3203 | 996 | -11 | 3 | 255 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 988 | -6 | 2222 | 997 | -10 | 2 | 258 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 989 | -6 | 2213 | 998 | -11 | 2 | 243 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 991 | -2 | 2205 | 1000 | -5 | 2 | 237 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 992 | -1 | 4203 | 1001 | 0 | 3 | 227 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 993 | 0 | 2220 | 1001 | 2 |  | 258 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 994 | 1 | 1202 | 1002 |  |  | 282 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-10.1$ STD DEV $=6.8 \mathrm{MAX}=1.9$ AT 1940 GMT ON DAY 17 MIN $=-33.4$ AT 720 GMT ON DAY 7
* THETA (K) * MEAN $=263.50$
* PRESSURE (MB) * MEAN $=993.9$ STD DEV $=8.4$ MAX $=1006.4$ AT 930 GMT ON DAY 23 MIN $=974.7$ AT 0 GMT ON DAY 1
* WINDS (M/S) * MEAN $=2.4$ STD DEV $=1.6$ RESULTANT $=1.1$ FROM 170 . CONSTANCY $=0.47$ MAX $=9.4$ FROM 118 . AT 1820 GMT DAY 27
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.3 \%$ PRESSURE: $2.1 \%$ WINDS: $2.1 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ $\begin{array}{lllllllllllllllllllll}\text { PERCENT } & 11 & 2 & 5 & 2 & 1 & 7 & 4 & 13 & 23 & 14 & 3 & 5 & 0 & 2 & 2 & 4\end{array}$


## DEC 97

$\begin{array}{llr}\text { HR } \quad \text { PP } & T T & V V \\ & \text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 1003 & -3 & 3 & 275\end{array}$

| 03 | 1003 | -3 | 1 |
| :--- | :--- | :--- | :--- |

061003 -5 2270
$091004-51223$
$121003 \quad 0 \quad 0 \quad 0$
$151003 \quad 2 \quad 3274$
$\begin{array}{lllll}18 & 1003 & 4 & 1309\end{array}$
$211002 \quad 2 \quad 3310$
DAY 8
$\begin{array}{lllll}00 & 996 & -3 & 3 & 330\end{array}$
$\begin{array}{lllll}03 & 995 & -4 & 2 & 360\end{array}$
$\begin{array}{lllll}06 & 994 & -4 & 2336\end{array}$
$\begin{array}{lllll}09 & 994 & -4 & 1 & 341\end{array}$
$\begin{array}{llll}12 & 994 & -2 & 1344\end{array}$
$\begin{array}{lllll}15 & 993 & -1 & 2355\end{array}$
$\begin{array}{llll}18 & 993 & -1 & 1344\end{array}$
$\begin{array}{lllll}21 & 993 & -2 & 2348\end{array}$ DAY 15
$\begin{array}{lllll}00 & 987 & -1 & 2 & 172\end{array}$
$\begin{array}{lllll}03 & 990 & -1 & 2 & 136\end{array}$
$\begin{array}{lllll}06 & 992 & -1 & 3 & 165\end{array}$
$\begin{array}{lllll}09 & 994 & -1 & 2 & 181\end{array}$
$\begin{array}{lllll}12 & 995 & 1 & 2 & 192\end{array}$
$\begin{array}{lllll}15 & 995 & 3 & 2 & 178\end{array}$
$\begin{array}{lllll}18 & 995 & 5 & 1 & 127\end{array}$
$\begin{array}{llll}21 & 994 & 0 & 0\end{array}$

| DAY 22 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 00 | 979 | -2 | 3 | 84 |
| 03 | 980 | -3 | 6 | 105 |
| 06 | 981 | -4 | 6 | 105 |
| 09 | 983 | -4 | 6 | 119 |
| 12 | 985 | -2 | 5 | 129 |
| 15 | 985 | -2 | 5 | 139 |
| 18 | 985 | -1 | 4 | 88 |
| 21 | 988 | -2 | 2 | 88 | DAY 29

$\begin{array}{lllll}00 & 1000 & -3 & 3 & 185\end{array}$
$031001-4 \begin{array}{llll}156\end{array}$
$\begin{array}{lllll}06 & 1000 & -4 & 1 & 157\end{array}$
$091001 \quad-3 \quad 2174$
$\begin{array}{llll}12 & 1001 & -2 & 2163\end{array}$
$151001 \quad 12142$
$\begin{array}{lllll}18 & 1002 & 2 & 147\end{array}$
211001 - 1
PP TT VV DD
DAY 3
$\begin{array}{rrrr}1008 & 1 & 3 & 323 \\ 1009 & -3 & 2 & 26 \\ 1010 & -5 & 0 & 0 \\ 1010 & -3 & 2 & 350 \\ 1010 & 3 & 1 & 26 \\ 1010 & 3 & 2 & 7 \\ 1010 & 4 & 3 & 7 \\ 1009 & 3 & 1 & 11\end{array}$

PP TT VV DD PP TT VV DD

$$
\begin{array}{llll}
987 & -3 & 2 & 18
\end{array}
$$

$$
\begin{array}{llll}
987 & -5 & 3 & 350
\end{array}
$$

$$
\begin{array}{lll}
987 & -6 & 2344
\end{array}
$$

$$
\begin{array}{llll}
988 & -6 & 2 & 42
\end{array}
$$

$$
\begin{array}{llll}
988 & -2 & 0 & 0
\end{array}
$$

$$
\begin{array}{llll}
988 & -1 & 0 & 0
\end{array}
$$

$$
\begin{array}{llll}
988 & -1 & 0 & 0
\end{array}
$$

$$
\begin{array}{llll}
988 & -2 & 1 & 74
\end{array}
$$

$$
\text { DAY } 24
$$

$$
\begin{array}{llll}
994 & -4 & 3 & 94
\end{array}
$$

$$
\begin{array}{llll}
994 & -5 & 1 & 71
\end{array}
$$

$$
\begin{array}{llll}
994 & -6 & 2 & 98
\end{array}
$$

$$
\begin{array}{llll}
995 & -6 & 0 & 0
\end{array}
$$

$$
\begin{array}{llll}
995 & -2 & 1 & 47
\end{array}
$$

$$
994 \quad 2 \quad 1 \quad 54
$$

$$
994 \quad 1 \quad 2313
$$

DAY 4
100
100
100
$\begin{array}{llll}1008 & -4 & 3 & 360\end{array}$
$\begin{array}{llll}1007 & -7 & 2 & 7\end{array}$

\[

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$\begin{array}{llllllll}1006 & -5 & 2 & 360 & 1002 & -4 & 1 & 125\end{array}$
$\begin{array}{lllllll}1005 & -3 & 3 & 352 & 1002 & -4 & 1 \\ 1022\end{array}$
$\begin{array}{llllllll}1005 & -1 & 4 & 360 & 1002 & -1 & 1 & 167\end{array}$
$\begin{array}{llllllll}1004 & 0 & 2 & 4 & 1002 & 0 & 0 & 0\end{array}$
$\begin{array}{llllllll}1003 & -1 & 2 & 360 & 1002 & -1 & 0 & 0\end{array}$

\[

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$$
\begin{array}{llllllll}
992 & -2 & 2 & 358 & 988 & -2 & 1 & 1
\end{array}
$$

$$
\begin{array}{llllllll}
991 & -4 & 1 & 360 & 988 & -2 & 0 & 0
\end{array}
$$

$$
\begin{array}{llllllll}
991 & -2 & 1 & 28 & 987 & -1 & 2 & 358
\end{array}
$$

$$
\begin{array}{llllllll}
990 & 0 & 3 & 12 & 987 & 2 & 1 & 326
\end{array}
$$

$$
990 \quad 1 \quad 2 \quad 5
$$

$$
\begin{array}{llllllll}
989 & 2 & 2 & 5 & 986 & 3 & 1 & 258
\end{array}
$$

$$
\begin{array}{llllllll}
989 & 1 & 2 & 4 & 986 & 2 & 1 & 240
\end{array}
$$ DAY 18

$$
\text { DAY } 19
$$

$\begin{array}{llllllll}988 & -4 & 2 & 59 & 988 & -2 & 1 & 358\end{array}$
$\begin{array}{llllllll}988 & -5 & 2 & 82 & 988 & -3 & 1 & 354\end{array}$
$\begin{array}{llllllll}988 & -5 & 0 & 0 & 987 & -3 & 2 & 324\end{array}$
$\begin{array}{llllllll}989 & -3 & 0 & 0 & 987 & -2 & 1 & 313\end{array}$
$\begin{array}{llllllll}989 & 0 & 0 & 0 & 986 & 0 & 3 & 341\end{array}$
$985 \quad 1 \quad 2345$
$\begin{array}{llllllll}989 & 4 & 0 & 0 & 984 & 2 & 2 & 350\end{array}$
$\begin{array}{lllllll}989 & 1 & 1 & 102 & 984 & 1 & 2.357\end{array}$

## DAY 26

$\begin{array}{llllllll}993 & -4 & 2 & 345 & 989 & -2 & 3 & 9\end{array}$
$\begin{array}{llllllll}992 & -4 & 2 & 347 & 991 & -3 & 1 & 33\end{array}$
$\begin{array}{lllllll}991 & -10 & 2 & 360 & 992 & -3 & 0\end{array} 0$
$\begin{array}{llllllll}990 & -5 & 2 & 360 & 994 & -2 & 1 & 119\end{array}$
$\begin{array}{llllllll}990 & -3 & 3 & 1 & 995 & 0 & 3 & 102\end{array}$
$\begin{array}{llll}988 & -1 & 3 & 360\end{array}$
$\begin{array}{llllllll}988 & -1 & 3 & 355 & 997 & 3 & 1 & 143\end{array}$
$\begin{array}{llllllll}988 & -1 & 2 & 16 & 998 & 0 & 2 & 112\end{array}$

$$
\text { DAY } 31
$$

$$
\begin{array}{lll}
1001 & -3 & 2336
\end{array}
$$

$$
\begin{array}{llll}
1001 & -3 & 2345
\end{array}
$$

$$
\begin{array}{llll}
999 & -4 & 3 & 357
\end{array}
$$

$$
\begin{array}{llll}
997 & -3 & 4 & 347
\end{array}
$$

$$
\begin{array}{llll}
995 & -1 & 4 & 348
\end{array}
$$

$$
\begin{array}{llll}
992 & -1 & 4355
\end{array}
$$

$$
990 \quad 1 \quad 3350
$$

DAY 6
$\begin{array}{llll}1001 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}1001 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}1001 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}1001 & -5 & 1 & 7\end{array}$
$\begin{array}{lll}1000 & -4 & 1357\end{array}$
$\begin{array}{llll}1000 & -2 & 3 & 360\end{array}$
$\begin{array}{llll}1000 & -1 & 3 & 343\end{array}$
1000 -2 4324
DAY 13
$\begin{array}{llll}985 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}984 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}983 & -4 & 0 & 0\end{array}$
$\begin{array}{lll}983 & -2 & 1286\end{array}$
$982 \quad 0 \quad 1317$
$\begin{array}{llllllll}980 & 2 & 0 & 0 & 985 & 1 & 2 & 139\end{array}$ DAY 20
$\begin{array}{lll}983 & -3 & 2360\end{array}$
$\begin{array}{llll}983 & -3 & 1 & 336\end{array}$
$\begin{array}{llll}982 & -4 & 3 & 344\end{array}$
$\begin{array}{lll}981 & -2 & 2352\end{array}$
$\begin{array}{lll}980 & -1 & 2316\end{array}$
$980 \quad 2 \quad 2360$
$979 \quad 3 \quad 2355$
$979 \quad 1 \quad 2358$
DAY 27
$999-2 \quad 0 \quad 0$
$\begin{array}{llll}999 & -4 & 1 & 123\end{array}$
$999-4 \quad 0 \quad 0$

- 31140
$\begin{array}{llll}999 & -6 & 1 & 146\end{array}$
$\begin{array}{llll}999 & -6 & 1 & 80\end{array}$ $\begin{array}{llll}999 & -5 & 1 & 175\end{array}$ $\begin{array}{llll}1000 & -3 & 3 & 175\end{array}$
$\begin{array}{llllllll}999 & -1 & 2 & 115 & 1000 & -1 & 2 & 165\end{array}$
$\begin{array}{llllllll}998 & -1 & 2 & 136 & 999 & -1 & 4 & 187\end{array}$
$\begin{array}{llllllll}998 & -2 & 3 & 132 & 999 & -2 & 5 & 178\end{array}$
* temperature ( $C$ ) * mean $=-1.8$ Std dev $=2.7$ max $=6.0$ at 1950 GMT ON day 2 min $=-9.8$ at 500 GMt on day 25
* theta (K) * MEAN $=271.85$
* PRESSURE (MB) * MEAN $=993.4$ STD DEV $=8.2$ MAX $=1010.3$ AT 1420 GMT ON DAY 3 MIN $=977.1$ AT 1300 GMT ON DAY 21 * WINDS (M/S) * MEAN $=1.8$ STD DEV $=1.2$ RESULTANT $=0.6$ FROM 15. CONSTANCY $=0.33 \mathrm{MAX}=7.6$ FROM 105. AT 510 GMT DAY 22 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.0 \%$ PRESSURE: $3.2 \%$ WINDS: $3.2 \%$
 $\begin{array}{llllllllllllllllllll}\text { PERCENT: } & 58 & 38 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $\quad$ E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllll} \\ \text { PERCENT } & 28 & 5 & 2 & 3 & 5 & 7 & 9 & 4 & 6 & 1 & 2 & 2 & 4 & 4 & 8 & 15\end{array}$


FEB 97
HR PP TT VV DD $\begin{array}{rrr}\text { DAY } & 1\end{array}$ $\begin{array}{lllll}00 & 1006 & -6 & 0 & 0\end{array}$ $\begin{array}{llll}03 & 1006 & -10 & 3 \\ 305\end{array}$ $\begin{array}{llll}06 & 1006 & -9 & 3 \\ 288\end{array}$ 09 1006-11 3293 12 1006-13 3306 15 1006-15 2305 18 1006-13 0 0
21 1006-11 0

$$
\text { DAY } 8
$$

$\begin{array}{lllll}00 & 994 & -10 & 4 & 16\end{array}$
$\begin{array}{lllll}03 & 994 & -10 & 5 & 29\end{array}$
$\begin{array}{lllll}06 & 995 & -8 & 6 & 19\end{array}$
$\begin{array}{lllll}09 & 996 & -9 & 3 & 289\end{array}$

| 12 | 997 | -11 | 5 |
| :--- | :--- | :--- | :--- |

15 997-11 2313
$\begin{array}{llll}18 & 998 & -11 & 284\end{array}$
21 999-10 2305

$$
\text { DAY } 15
$$

00 995-15 2292
$\begin{array}{lllll}03 & 995 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 996 & -17 & 5 \\ 302\end{array}$
$\begin{array}{lllll}09 & 997 & -17 & 4 & 300\end{array}$
$\begin{array}{llll}12 & 997 & -14 & 292\end{array}$
$\begin{array}{llll}15 & 998 & -19 & 0\end{array}$
$\begin{array}{llll}18 & 998 & -17 & 0\end{array}$
21 999-19 3299
DAY 22
$\begin{array}{llll}00 & 993-17 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 993 & -16 & 0 & 0\end{array}$
06 992-16 0
$\begin{array}{lllll}09 & 993 & -16 & 0 & 0\end{array}$
$\begin{array}{llll}12 & 993 & -17\end{array}$
15 993-17
$\begin{array}{ll}18 & 994-19\end{array}$
21 995-16


| PP |  | vV | DD |
| :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |
| 1003 | -7 | 0 | 0 |
| 1001 | -4 | 0 | 0 |
| 1000 | -8 | 0 | 0 |
| 1000 | -10 | 0 | 0 |
| 1000 | -16 | 0 | 0 |
| 1000 | -16 | 0 | 0 |
| 999 | -12 | 0 | 0 |
| 998 | -9 | 0 | 0 |
|  | DAY | 11 |  |
| 1003 | -16 | 5 | 299 |
| 1003 | -16 | 7 | 303 |
| 1003 | -16 | 8 | 307 |
| 1004 | -17 | 5 | 315 |
| 1004 | -17 | 6 | 316 |
| 1004 | -17 | 6 | 317 |
| 1004 | -18 | 5 | 306 |
| 1004 | -16 | 6 | 306 |
|  | DAY | 18 |  |
| 1005 | -15 | 5 | 324 |
| 1005 | -17 | 6 | 302 |
| 1005 | -19 | 6 | 312 |
| 1004 | -20 | 7 | 320 |
| 1004 | -21 | 6 | 320 |
| 1003 | -21 | 4 | 337 |
| 1002 | -20 | 0 | 0 |
| 1002 | -20 | 3 | 281 |
|  | DAY 25 |  |  |
| 1000 | -17 | 0 | 0 |
| 1001 | -16 | 0 | 0 |
| 1001 | -17 | 0 | 0 |
| 1002 | -16 |  |  |
| 1002 | -19 |  |  |
| 1003 | -20 |  |  |
| 1004 | -19 |  |  |
| 1005 | -20 |  |  |



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-14.0$ Std dev $=4.0$ max $=-0.2$ at 220 GMt ON dAy 5 MIN $=-23.5$ at 1950 GMt ON dAY 28
* THETA (K) * MEAN $=259.25$
* PRESSURE (MB) * MEAN $=998.4$ STD DEV $=5.1$ MAX $=1008.4$ AT 2110 GMT ON DAY 2 MIN $=985.6$ AT 1920 GMT ON DAY 28
* WINDS (M/S) * MEAN $=2.1 \mathrm{STD}$ DEV $=2.7$ RESULTANT $=1.7$ FROM 314. CONSTANCY $=0.81 \mathrm{MAX}=18.1$ FROM 52 . AT 320 GMT DAY 20 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \%$ WINDS: $11.2 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6\end{array}$ $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 56 & 24 & 13 & 5 & 1 & & 0 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \mathrm{S} & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ PERCENT $\begin{array}{llllllllllllllll}2 & 4 & 1 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 1 & 34 & 44 & 10\end{array}$

MAR 97
HR PP TT VV

|  |  | DAY |
| :--- | :--- | ---: |
| 00 | 986 | -21 |
| 03 | 986 | -20 |

$06 \quad 986-21$
09 987-21
$\begin{array}{ll}12 & 988-22\end{array}$
$15 \quad 989-22$
$\begin{array}{lll}18 & 990 & -23\end{array}$
$21 \quad 991-23$
DAY 8
$00 \quad 987-23$
$03 \quad 987-22$
06 988-22
09 988-25
12 989-25
$15-989-23$
18 990-24
21 991-24
DAY 15
$00 \quad 993-19$
$03 \quad 994-21$
$\begin{array}{ll}06 & 995-20\end{array}$
$09 \quad 995-26$
12 995-28
15 996-27
18 996-28
21 995-28
$\begin{array}{lll}00 & 994 & -27\end{array}$
$\begin{array}{ll}03 & 995-26\end{array}$
$06 \quad 996-30$
$09 \quad 996-30$
12 997-28
15 997-28
18 998-27
21 999-24
DAY 29
00 969-31
03 968-28
06 966-26
$09 \quad 966-25$
$\begin{array}{ll}12 & 966 \\ -24\end{array}$
$15 \quad 964-24$
$\begin{array}{ll}18 & 963-21\end{array}$
$\begin{array}{ll}21 & 967-19\end{array}$


| PP | TT VV | DD |
| :--- | ---: | ---: | ---: |
| DAY | 4 |  |

PP TT VV DD
DAY 5
PP TT VV DD

PP TT VV DD
DAY 7
988-19
986-15
986-13
985-17
985-16
985-16
985-23
986-24
DAY 14
979-25
980-21
981-23
982-23
984-28
987-25
990-24
991-22
DAY 21
993 -31
992-29
992-31
992-33
991-31
991-32
992-30
993-29
DAY 28
988-30
986-27
984-28
982-30
980-29
977-28
974-30
971-30

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-24.3$ STD DEV $=4.1$ MAX $=-12.8$ AT 640 GMT ON DAY 7 MIN $=-35.1$ AT 1400 GMT ON DAY 20
* THETA (K) * MEAN $=249.60$
* PRESSURE (MB) * MEAN $=989.7$ STD DEV $=9.5$ MAX $=1009.9$ AT 1040 GMT ON DAY 25 MIN $=962.4$ AT 1730 GMT ON DAY 29
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 10 -12 $12-1414$-16 16 -18 $18-20$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ hind direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP |  | VV | DD | PP | TT | VV | DD | PP |  | VV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 984 | -26 |  |  | 985 | -29 |  |  | 992 | -27 |  |  | 998 | -21 |  |  | 992 | -14 |  |  | 979 | -21 | 0 | 0 | 985 | -28 |  |  |
| 03 | 981 | -25 |  |  | 987 | -26 |  |  | 994 | -27 |  |  | 998 | -20 |  |  | 990 | -18 |  |  | 984 | -22 | 0 | 0 | 983 | -26 |  |  |
| 06 | 979 | -27 |  |  | 989 | -32 |  |  | 995 | -29 |  |  | 998 | -29 |  |  | 987 | -16 |  |  | 984 | -25 |  |  | 982 | -23 |  |  |
| 09 | 978 | -30 |  |  | 990 | -29 |  |  | 995 | -32 |  |  | 997 | -27 |  |  | 983 | -13 |  |  | 983 | -24 |  |  | 980 | -21 |  |  |
| 12 | 980 | -31 |  |  | 991 | -27 |  |  | 995 | -27 |  |  | 995 | -24 |  |  | 979 | -18 |  |  | 984 | -19 |  |  | 979 | -19 |  |  |
| 15 | 981 | -33 |  |  | 990 | -27 |  |  | 996 | -24 |  |  | 994 | -20 |  |  | 975 | -14 |  |  | 984 | -14 |  |  | 979 | -15 |  |  |
| 18 | 982 | -30 |  |  | 990 | -25 |  |  | 997 | -23 |  |  | 994 | -20 |  |  | 973 | -9 |  |  | 986 | -20 |  |  | 979 | -16 |  |  |
| 21 | 984 | -26 |  |  | 991 | -22 |  |  | 998 | -23 |  |  | 994 | -14 |  |  |  |  |  |  | 986 | -28 |  |  | 981 | -14 |  |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 983 | -14 |  |  | 998 | -16 | 4 | 54 | 995 | -26 |  |  | 990 | -32 | 0 | 0 | 988 | -35 | 0 | 0 | 990 | -28 | 0 | 0 | 990 | -27 |  |  |
| 03 | 984 | -16 | 5 | 184 | 999 | -24 | 0 | 0 | 994 | -26 |  |  | 989 | -35 |  |  | 987 | -37 | 0 | 0 | 990 | -28 | 0 | 0 | 989 | -28 |  |  |
| 06 | 986 | -18 | 0 | 0 | 999 | -25 | 0 | 0 | 994 | -27 |  |  | 989 | -37 |  |  | 988 | -36 | 0 | 0 | 990 | -24 | 0 | 0 | 989 | -27 |  |  |
| 09 | 988 | -16 | 0 | 0 | 999 | -27 | 0 | 0 | 994 | -28 |  |  | 988 | -38 |  |  | 989 | -35 | 0 | 0 | 990 | -24 | 8 | 243 | 989 | -28 |  |  |
| 12 | 991 | -14 | 0 | 0 | 998 | -30 | 0 | 0 | 993 | -31 |  |  | 988 | -39 |  |  | 989 | -35 | 0 | 0 | 991 | -26 | 2 | 360 | 989 | -31 |  |  |
| 15 | 992 | -15 | 6 | 222 | 997 | -27 | 0 | 0 | 992 | -35 |  |  | 988 | -39 |  |  | 989 | -33 | 0 | 0 | 991 | -28 |  |  | 989 | -29 |  |  |
| 18 | 994 | -15 | 6 | 91 | 997 | -25 | 0 | 0 | 991 | -35 | 0 | 0 | 987 | -40 |  |  | 989 | -32 | 0 | 0 | 991 | -28 |  |  | 990 | -25 |  |  |
| 21 | 997 | -17 | 0 | 0 | 996 | -26 |  |  | 991 | -34 | 0 | 0 | 987 | -37 | 0 | 0 | 990 | -30 | 0 | 0 | 991 | -26 |  |  | 990 | -23 |  |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 991 | -25 |  |  | 1001 | -29 |  |  | 1006 | -27 |  |  | 1015 | -30 |  |  | 1023 | -26 |  |  | 1018 | -23 | 0 | 0 | 1012 | -25 | 0 | 0 |
| 03 | 993 | -28 | 0 | 0 | 1001 | -28 |  |  | 1007 | -30 |  |  | 1018 | -31 |  |  | 1023 | -30 |  |  | 1017 | -23 | 0 | 0 | 1012 | -24 | 0 | 0 |
| 06 | 994 | -22 | 3 | 198 | 1001 | -26 |  |  | 1008 | -29 |  |  | 1019 | -30 |  |  | 1023 | -33 |  |  | 1016 | -26 |  |  | 1011 | -23 | 0 | 0 |
| 09 | 996 | -20 | 6 | 277 | 1002 | -29 |  |  | 1009 | -30 |  |  | 1020 | -30 |  |  | 1022 | -33 | 0 | 0 | 1015 | -25 |  |  | 1011 | -27 | 0 | 0 |
| 12 | 997 | -22 |  |  | 1002 | -27 |  |  | 1010 | -31 |  |  | 1021 | -30 |  |  | 1021 | -32 | 0 | 0 | 1014 | -24 |  |  | 1011 | -28 | 0 | 0 |
| 15 | 999 | -23 |  |  | 1003 | -26 |  |  | 1010 | -28 |  |  | 1021 | -30 |  |  | 1020 | -33 | 0 | 0 | 1014 | -27 | 0 | 0 | 1011 | -29 | 0 | 0 |
| 18 | 1000 | -24 |  |  | 1004 | -29 |  |  | 1011 | -25 |  |  | 1022 | -26 |  |  | 1019 | -29 | 0 | 0 | 1013 | -26 | 0 | 0 | 1010 | -27 | 0 | 0 |
| 21 | 1000 | -24 |  |  | 1005 | -28 |  |  | 1013 | -24 |  |  | 1023 | -26 |  |  | 1019 | -28 | 0 | 0 | 1013 | -26 | 0 | 0 | 1009 | -30 | 0 | 0 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 1009 | -32 | 0 | 0 | 1005 | -39 | 0 | 0 | 1003 | -34 |  |  | 997 | -47 |  |  | 990 | -39 |  |  | 989 | -25 |  |  | 992 | -34 |  |  |
| 03 | 1009 | -32 | 0 | 0 | 1003 | -41 | 0 | 0 | 1002 | -36 |  |  | 997 | -46 |  |  | 987 | -38 |  |  | 989 | -32 |  |  | 992 | -32 |  |  |
| 06 | 1009 | -32 | 0 | 0 | 1003 | -41 | 0 | 0 | 1001 | -37 |  |  | 999 | -43 |  |  | 985 | -42 |  |  | 987 | -33 |  |  | 993 | -33 |  |  |
| 09 | 1010 | -32 | 0 | 0 | 1002 | -43 | 0 | 0 | 1000 | -39 |  |  | 1000 | -31 |  |  | 985 | -37 |  |  | 987 | -35 |  |  | 994 | $-30$ |  |  |
| 12 | 1009 | -35 | 0 | 0 | 1002 | -43 |  |  | 999 | -42 |  |  | 999 | -37 |  |  | 986 | -37 |  |  | 987 | -32 |  |  | 994 | -28 |  |  |
| 15 | 1008 | -33 | 0 | 0 | 1003 | -40 |  |  | 998 | -46 |  |  | 998 | -40 |  |  | 989 | -44 |  |  | 987 | -33 |  |  | 993 | -25 |  |  |
| 18 | 1007 | -33 | 0 | 0 | 1004 | -39 |  |  | 997 | -44 |  |  | 995 | -35 | 0 | 0 | 989 | -32 |  |  | 988 | -35 |  |  | 993 | -28 |  |  |
| 21 | 1006 | -34 | 0 | 0 | 1004 | -40 |  |  | 997 | -46 |  |  | 992 | -31 | 0 | 0 | 989 | $-31$ |  |  | 990 | $-30$ |  |  | 991 | $-30$ |  |  |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 991 | -32 |  |  | 992 | -37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 990 | -32 |  |  | 991 | -37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 990 | -31 |  |  | 990 | -36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 991 | -30 |  |  | 991 | -31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 992 | -30 |  |  | 992 | -35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 992 | -35 |  |  | 993 | -33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 993 | -38 |  |  | 994 | -34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 992 | -33 |  |  | 994 | -37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-28.9$ STD DEV $=7.1$ MAX $=-6.8$ AT 1850 GMT ON DAY 5 MIN $=-49.0$ AT 2240 GMT ON DAY 24
* THETA (K) * MEAN $=244.55$
* PRESSURE (MB) * MEAN $=996.0$ STD DEV $=11.0$ MAX $=1023.3$ AT 150 GMT ON DAY 19 MIN $=970.5$ AT 1930 GMT ON DAY 5 * $\operatorname{WINDS}(M / S) *$ MEAN $=0.6$ STD DEV $=1.6$ RESULTANT $=0.2$ FROM 234 . CONSTANCY $=0.26$ MAX $=8.4$ FROM 70. AT 2340 GMT DAY 8 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \% \quad$ WINDS: $71.7 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 6$

PERCENT
$130 \begin{array}{llllllllllllll} & 0 & 13 & 0 & 13 & 0 & 0 & 0 & 13 & 13 & 13 & 13 & 13 & 0\end{array} 0$


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-26.5$ STD DEV $=8.9$ MAX $=-9.2$ AT 1500 GMT ON DAY 16 MIN $=-44.5$ AT 320 GMT ON DAY 12
* theta (K) * MEAN $=247.87$
* PRESSURE (MB) * MEAN $=983.3$ STD DEV $=9.4$ MAX $=1000.6$ AT 1210 GMT ON DAY 27 MIN $=953.3$ AT 900 GMT ON DAY 16 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $79.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 $16-18$ 18-20 $20-25$ 25-30 $\quad 30-35$ 35-40 $\begin{array}{ll}40-45 & 45-50 \\ 50-55 & 55-60 \\ 60+\end{array}$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-33.8$ Std dev $=8.7$ MAX $=-14.0$ at 2240 GMT ON DAY 16 MIN $=-49.4$ at 1810 GMt ON DAY 27
* THETA (K) * MEAN $=239.88$
* PRESSURE (MB) * MEAN $=992.5$ STD DEV $=6.0$ MAX $=1002.4$ AT 0 GMT ON DAY 29 MIN $=975.0$ AT 1450 GMT ON DAY 16 * WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ fROM 0 . CONSTANCY $=0.00 \mathrm{mAX}=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $43.5 \%$ PRESSURE: $43.5 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-27.0$ STD DEV $=9.9$ MAX $=-2.8$ AT 1930 GMT ON DAY 24 MIN $=-49.4$ AT 1600 GMT ON DAY
* THETA (K) * MEAN $=246.80$
* PRESSURE (MB) * MEAN $=991.3$ STD DEV $=8.8$ MAX $=1013.0$ AT 1450 GMT ON DAY 12 MIN $=967.1$ AT 2210 GMT ON DAY 24
* WINDS $(M / S) *$ MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

PERCENT

OCT 97


00

|  | DAY 22 |  |  | DAY 23 |  | day 24 | DAY 25 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 |  |  |  |  | 976 | -10 | 983 | -9 |
| 03 |  |  |  |  | 980 | -10 | 983 | -10 |
| 06 |  |  | 966 | -11 | 983 | -11 | 983 | -13 |
| 09 |  |  | 965 | -10 | 984 | -12 | 983 | -15 |
| 12 |  |  | 965 | -9 | 985 | -16 | 983 | -17 |
| 15 |  |  | 962 | -9 | 984 | -15 | 984 | -17 |
| 18 |  |  | 964 | -10 | 984 | -13 | 984 | -16 |
| 21 |  |  | 970 | -10 | 984 | -12 | 984 | -15 |
|  |  | DAY 29 |  | day 30 |  | DAY 31 |  |  |
| 00 | 983 | -14 | 980 | -11 | 982 | -20 |  |  |
| 03 | 983 | -15 | 979 | -13 | 982 | -19 |  |  |
| 06 | 983 | -15 | 979 | -15 | 982 | -19 |  |  |
| 09 | 982 | -16 | 980 | -16 | 980 | -19 |  |  |
| 12 | 982 | -16 | 980 | -19 | 980 | -19 |  |  |
| 15 | 981 | -16 | 981 | -23 | 980 | -20 |  |  |
| 18 | 981 | -14 | 982 | -23 | 980 | -20 |  |  |
| 21 | 980 | -12 | 982 | -21 | 978 | -19 |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-14.3$ Std dev $=4.2$ MAX $=-6.2$ at 310 GMT ON day 7 min $=-26.2$ at 340 GMt ON DAY 1
* theta (K) * MEAN $=260.00$
* PRESSURE (MB) * MEAN $=985.1$ StD DEV $=7.3$ MAX $=1003.2$ AT 0 GMT ON DAY 8 MIN $=960.2$ AT 1650 GMT ON DAY 23 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $35.9 \%$ PRESSURE: $35.9 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-5.9$ StD deV $=5.5$ MAX $=2.2$ at 1110 GMT ON DAY 20 MIN $=-26.2$ at 1340 GMT ON DAY 3
* THETA (K) * MEAN = 267.59
* PRESSURE (MB) * MEAN $=996.2$ STD DEV $=11.3$ MAX $=1016.3$ AT 2250 GMT ON DAY 23 MIN $=966.9$ AT 940 GMT ON DAY 4
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array} 0$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

DEC 97
HR PP TT VV DD

| PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |  | $\begin{array}{r} \text { IT VV } \\ \text { DAY } 3 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1000 | -5 |  |  | 1003 | -3 |  |
| 999 | -2 |  |  | 1003 | -5 |  |
| 999 | -4 |  |  | 1003 | -4 |  |
| 999 | -4 |  |  | 1003 | -6 |  |
| 1000 | -4 |  |  | 1004 | -7 |  |
| 1000 | -7 |  |  | 1005 | -7 |  |
| 1001 | -7 |  |  | 1004 | -7 |  |
| 1003 | -3 |  |  | 1004 | -6 |  |
|  | DAY | 9 |  |  | DAY 10 |  |
| 1008 | -12 |  |  | 1001 | -9 |  |
| 1006 | -10 |  |  | 1000 | -9 |  |
| 1006 | -10 |  |  | 999 | -10 |  |
| 1005 | -11 |  |  | 999 | -12 |  |
| 1004 | -12 |  |  | 1000 | -13 |  |
| 1002 | -11 |  |  | 999 | -13 |  |
| 1002 | -11 |  |  | 1000 | -12 |  |
| 1001 | -10 |  |  | 1000 | -8 |  |


| PP | IT VV | DD | PP | TT VV | DD | PP | TT VV | DD | PP | TT VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 1005 | -5 |  | 1013 | -8 |  | 1004 | -5 |  | 1006 | -7 |  |
| 1005 | -6 |  | 1013 | -7 |  | 1003 | -5 |  | 1007 | -6 |  |
| 1006 | -7 |  | 1013 | -8 |  | 1002 | -7 |  | 1007 | -3 |  |
| 1006 | -8 |  | 1011 | -8 |  | 1002 | -7 |  | 1008 | -7 |  |
| 1007 | -11 |  | 1010 | -9 |  | 1002 | -8 |  | 1009 | -7 |  |
| 1009 | -16 |  | 1008 | -7 |  | 1003 | -9 |  | 1010 | -7 |  |
| 1011 | -12 |  | 1006 | -6 |  | 1004 | -9 |  | 1011 | -8 |  |
| 1012 | -11 |  | 1005 | -3 |  | 1004 | -8 |  | 1012 | -8 |  |
|  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 1000 | -9 |  | 995 | -6 |  | 988 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 993 | -5 |  | 987 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 992 | -6 |  | 986 | -3 |  | 987 | -4 |  |
| 999 | -12 |  | 992 | -5 |  | 986 | -5 |  | 988 | -4 |  |
| 999 | -13 |  | 991 | -5 |  | 986 | -5 |  | 990 | -6 |  |
| 998 | -13 |  | 990 | -5 |  | 986 | -6 |  | 992 | -6 |  |
| 997 | -11 |  | 990 | -4 |  | 986 | -7 |  | 994 | -6 |  |
| 996 | -7 |  | 990 | -3 |  | 986 | -4 |  | 997 | -4 |  |
|  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 996 | -7 |  | 997 | -4 |  | 993 | 0 |  | 1003 | -6 |  |
| 995 | -7 |  | 996 | -2 |  | 993 | 0 |  | 1003 | -4 |  |
| 996 | -6 |  | 995 | -4 |  | 994 | -1 |  | 1004 | -5 |  |
| 997 | -7 |  | 995 | -10 |  | 995 | -2 |  | 1004 | -6 |  |
| 998 | -9 |  | 994 | -11 |  | 997 | -4 |  | 1004 | -7 |  |
| 998 | -7 |  | 993 | -10 |  | 999 | -8 |  | 1003 | -8 |  |
| 998 | -6 |  | 993 | -3 |  | 1000 | -6 |  | 1002 | -3 |  |
| 998 | -6 |  | 993 | -3 |  | 1002 | -5 |  | 1000 | 0 |  |
|  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | day 28 |  |
| 1002 | 0 |  | 996 | -1 |  | 991 | 2 |  | 996 | 3 |  |
| 1001 | 1 |  | 995 | 1 |  | 990 | 3 |  | 996 | 1 |  |
| 1002 | -1 |  | 994 | 3 |  | 991 | 2 |  | 997 | 1 |  |
| 1003 | -2 |  | 992 | 0 |  | 992 | 1 |  | 998 | 0 |  |
| 1002 | -2 |  | 992 | -2 |  | 992 | 1 |  | 998 | -1 |  |
| 1001 | -2 |  | 991 | -3 |  | 993 | 0 |  | 998 | -1 |  |
| 1000 | 2 |  | 990 | -2 |  | 994 | -1 |  | 998 | 0 |  |
| 997 | 0 |  | 991 | 2 |  | 995 | 1 |  | 997 | 1 |  |




| PP | IT VV | DD | PP | TT VV | DD | PP | TT VV | DD | PP | TT VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 1005 | -5 |  | 1013 | -8 |  | 1004 | -5 |  | 1006 | -7 |  |
| 1005 | -6 |  | 1013 | -7 |  | 1003 | -5 |  | 1007 | -6 |  |
| 1006 | -7 |  | 1013 | -8 |  | 1002 | -7 |  | 1007 | -3 |  |
| 1006 | -8 |  | 1011 | -8 |  | 1002 | -7 |  | 1008 | -7 |  |
| 1007 | -11 |  | 1010 | -9 |  | 1002 | -8 |  | 1009 | -7 |  |
| 1009 | -16 |  | 1008 | -7 |  | 1003 | -9 |  | 1010 | -7 |  |
| 1011 | -12 |  | 1006 | -6 |  | 1004 | -9 |  | 1011 | -8 |  |
| 1012 | -11 |  | 1005 | -3 |  | 1004 | -8 |  | 1012 | -8 |  |
|  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 1000 | -9 |  | 995 | -6 |  | 988 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 993 | -5 |  | 987 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 992 | -6 |  | 986 | -3 |  | 987 | -4 |  |
| 999 | -12 |  | 992 | -5 |  | 986 | -5 |  | 988 | -4 |  |
| 999 | -13 |  | 991 | -5 |  | 986 | -5 |  | 990 | -6 |  |
| 998 | -13 |  | 990 | -5 |  | 986 | -6 |  | 992 | -6 |  |
| 997 | -11 |  | 990 | -4 |  | 986 | -7 |  | 994 | -6 |  |
| 996 | -7 |  | 990 | -3 |  | 986 | -4 |  | 997 | -4 |  |
|  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 996 | -7 |  | 997 | -4 |  | 993 | 0 |  | 1003 | -6 |  |
| 995 | -7 |  | 996 | -2 |  | 993 | 0 |  | 1003 | -4 |  |
| 996 | -6 |  | 995 | -4 |  | 994 | -1 |  | 1004 | -5 |  |
| 997 | -7 |  | 995 | -10 |  | 995 | -2 |  | 1004 | -6 |  |
| 998 | -9 |  | 994 | -11 |  | 997 | -4 |  | 1004 | -7 |  |
| 998 | -7 |  | 993 | -10 |  | 999 | -8 |  | 1003 | -8 |  |
| 998 | -6 |  | 993 | -3 |  | 1000 | -6 |  | 1002 | -3 |  |
| 998 | -6 |  | 993 | -3 |  | 1002 | -5 |  | 1000 | 0 |  |
|  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | day 28 |  |
| 1002 | 0 |  | 996 | -1 |  | 991 | 2 |  | 996 | 3 |  |
| 1001 | 1 |  | 995 | 1 |  | 990 | 3 |  | 996 | 1 |  |
| 1002 | -1 |  | 994 | 3 |  | 991 | 2 |  | 997 | 1 |  |
| 1003 | -2 |  | 992 | 0 |  | 992 | 1 |  | 998 | 0 |  |
| 1002 | -2 |  | 992 | -2 |  | 992 | 1 |  | 998 | -1 |  |
| 1001 | -2 |  | 991 | -3 |  | 993 | 0 |  | 998 | -1 |  |
| 1000 | 2 |  | 990 | -2 |  | 994 | -1 |  | 998 | 0 |  |
| 997 | 0 |  | 991 | 2 |  | 995 | 1 |  | 997 | 1 |  |


| PP | IT VV | DD | PP | TT VV | DD | PP | TT VV | DD | PP | TT VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 1005 | -5 |  | 1013 | -8 |  | 1004 | -5 |  | 1006 | -7 |  |
| 1005 | -6 |  | 1013 | -7 |  | 1003 | -5 |  | 1007 | -6 |  |
| 1006 | -7 |  | 1013 | -8 |  | 1002 | -7 |  | 1007 | -3 |  |
| 1006 | -8 |  | 1011 | -8 |  | 1002 | -7 |  | 1008 | -7 |  |
| 1007 | -11 |  | 1010 | -9 |  | 1002 | -8 |  | 1009 | -7 |  |
| 1009 | -16 |  | 1008 | -7 |  | 1003 | -9 |  | 1010 | -7 |  |
| 1011 | -12 |  | 1006 | -6 |  | 1004 | -9 |  | 1011 | -8 |  |
| 1012 | -11 |  | 1005 | -3 |  | 1004 | -8 |  | 1012 | -8 |  |
|  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 1000 | -9 |  | 995 | -6 |  | 988 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 993 | -5 |  | 987 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 992 | -6 |  | 986 | -3 |  | 987 | -4 |  |
| 999 | -12 |  | 992 | -5 |  | 986 | -5 |  | 988 | -4 |  |
| 999 | -13 |  | 991 | -5 |  | 986 | -5 |  | 990 | -6 |  |
| 998 | -13 |  | 990 | -5 |  | 986 | -6 |  | 992 | -6 |  |
| 997 | -11 |  | 990 | -4 |  | 986 | -7 |  | 994 | -6 |  |
| 996 | -7 |  | 990 | -3 |  | 986 | -4 |  | 997 | -4 |  |
|  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 996 | -7 |  | 997 | -4 |  | 993 | 0 |  | 1003 | -6 |  |
| 995 | -7 |  | 996 | -2 |  | 993 | 0 |  | 1003 | -4 |  |
| 996 | -6 |  | 995 | -4 |  | 994 | -1 |  | 1004 | -5 |  |
| 997 | -7 |  | 995 | -10 |  | 995 | -2 |  | 1004 | -6 |  |
| 998 | -9 |  | 994 | -11 |  | 997 | -4 |  | 1004 | -7 |  |
| 998 | -7 |  | 993 | -10 |  | 999 | -8 |  | 1003 | -8 |  |
| 998 | -6 |  | 993 | -3 |  | 1000 | -6 |  | 1002 | -3 |  |
| 998 | -6 |  | 993 | -3 |  | 1002 | -5 |  | 1000 | 0 |  |
|  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | day 28 |  |
| 1002 | 0 |  | 996 | -1 |  | 991 | 2 |  | 996 | 3 |  |
| 1001 | 1 |  | 995 | 1 |  | 990 | 3 |  | 996 | 1 |  |
| 1002 | -1 |  | 994 | 3 |  | 991 | 2 |  | 997 | 1 |  |
| 1003 | -2 |  | 992 | 0 |  | 992 | 1 |  | 998 | 0 |  |
| 1002 | -2 |  | 992 | -2 |  | 992 | 1 |  | 998 | -1 |  |
| 1001 | -2 |  | 991 | -3 |  | 993 | 0 |  | 998 | -1 |  |
| 1000 | 2 |  | 990 | -2 |  | 994 | -1 |  | 998 | 0 |  |
| 997 | 0 |  | 991 | 2 |  | 995 | 1 |  | 997 | 1 |  |


| PP | IT VV | DD | PP | TT VV | DD | PP | TT VV | DD | PP | TT VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 1005 | -5 |  | 1013 | -8 |  | 1004 | -5 |  | 1006 | -7 |  |
| 1005 | -6 |  | 1013 | -7 |  | 1003 | -5 |  | 1007 | -6 |  |
| 1006 | -7 |  | 1013 | -8 |  | 1002 | -7 |  | 1007 | -3 |  |
| 1006 | -8 |  | 1011 | -8 |  | 1002 | -7 |  | 1008 | -7 |  |
| 1007 | -11 |  | 1010 | -9 |  | 1002 | -8 |  | 1009 | -7 |  |
| 1009 | -16 |  | 1008 | -7 |  | 1003 | -9 |  | 1010 | -7 |  |
| 1011 | -12 |  | 1006 | -6 |  | 1004 | -9 |  | 1011 | -8 |  |
| 1012 | -11 |  | 1005 | -3 |  | 1004 | -8 |  | 1012 | -8 |  |
|  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 1000 | -9 |  | 995 | -6 |  | 988 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 993 | -5 |  | 987 | -1 |  | 986 | -3 |  |
| 1000 | -10 |  | 992 | -6 |  | 986 | -3 |  | 987 | -4 |  |
| 999 | -12 |  | 992 | -5 |  | 986 | -5 |  | 988 | -4 |  |
| 999 | -13 |  | 991 | -5 |  | 986 | -5 |  | 990 | -6 |  |
| 998 | -13 |  | 990 | -5 |  | 986 | -6 |  | 992 | -6 |  |
| 997 | -11 |  | 990 | -4 |  | 986 | -7 |  | 994 | -6 |  |
| 996 | -7 |  | 990 | -3 |  | 986 | -4 |  | 997 | -4 |  |
|  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 996 | -7 |  | 997 | -4 |  | 993 | 0 |  | 1003 | -6 |  |
| 995 | -7 |  | 996 | -2 |  | 993 | 0 |  | 1003 | -4 |  |
| 996 | -6 |  | 995 | -4 |  | 994 | -1 |  | 1004 | -5 |  |
| 997 | -7 |  | 995 | -10 |  | 995 | -2 |  | 1004 | -6 |  |
| 998 | -9 |  | 994 | -11 |  | 997 | -4 |  | 1004 | -7 |  |
| 998 | -7 |  | 993 | -10 |  | 999 | -8 |  | 1003 | -8 |  |
| 998 | -6 |  | 993 | -3 |  | 1000 | -6 |  | 1002 | -3 |  |
| 998 | -6 |  | 993 | -3 |  | 1002 | -5 |  | 1000 | 0 |  |
|  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | day 28 |  |
| 1002 | 0 |  | 996 | -1 |  | 991 | 2 |  | 996 | 3 |  |
| 1001 | 1 |  | 995 | 1 |  | 990 | 3 |  | 996 | 1 |  |
| 1002 | -1 |  | 994 | 3 |  | 991 | 2 |  | 997 | 1 |  |
| 1003 | -2 |  | 992 | 0 |  | 992 | 1 |  | 998 | 0 |  |
| 1002 | -2 |  | 992 | -2 |  | 992 | 1 |  | 998 | -1 |  |
| 1001 | -2 |  | 991 | -3 |  | 993 | 0 |  | 998 | -1 |  |
| 1000 | 2 |  | 990 | -2 |  | 994 | -1 |  | 998 | 0 |  |
| 997 | 0 |  | 991 | 2 |  | 995 | 1 |  | 997 | 1 |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-4.5$ std dev $=4.0$ max $=3.5$ at 1820 GMt on day 25 min $=-16.2$ at 1540 gmt on day 4
* theta (K) * MEAN $=268.74$
* PRESSURE (MB) * MEAN $=998.6$ STD DEV $=6.0$ MAX $=1013.5$ AT 20 GMT ON DAY 5 MIN $=985.2$ AT 1620 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ $\begin{array}{lcccccccccccccccc}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

JAN 97


* TEMPERATURE (C) * MEAN $=-1.8$ STD DEV $=2.2$ MAX $=3.8$ AT 530 GMT ON DAY 14 MIN $=-8.8$ AT 1650 GMT ON DAY 27
* THETA (K) * MEAN $=272.76$
* PRESSURE (MB) * MEAN $=981.7$ STD DEV $=7.8$ MAX $=999.4$ AT 430 GMT ON DAY 30 MIN $=960.7$ AT 1610 GMT ON DAY 4 * WINDS (M/S) * MEAN $=7.2$ STD DEV $=4.2$ RESULTANT $=6.6$ FROM 152. CONSTANCY $=0.91$ MAX $=20.1$ FROM 122 . AT 1740 GMT DAY 4 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.4 \%$ PRESSURE: $1.2 \%$ WINDS: $1.2 \%$

WIND SPEED (M/S): 0-2 $2-4 \quad 4-6 \quad 6-8 \quad 8-10 \quad 10-1212-14 \quad 14-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 6 & 39 & 22 & 22 & 6 & 1 & 1 & 1 & 0 & 0 & 0\end{array}$

FEB 97




## MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-4.8$ Std dev $=3.5$ max $=2.9$ at 550 GMt on day 1 min $=-15.2$ at 1740 GMt on day 22
* theta (K) * MEAN $=270.38$
* PRESSURE (MB) * MEAN $=974.5$ STD DEV $=10.5$ MAX $=996.6$ AT 50 GMT ON DAY 1 MIN $=938.4$ AT 2250 GMT ON DAY 18
* WINDS $(\mathrm{M} / \mathrm{S}) *$ MEAN $=8.9 \mathrm{STD}$ DEV $=3.9$ RESULTANT $=8.3$ FROM 160 . CONSTANCY $=0.94$ MAX $=23.6$ FROM 135 . AT 1120 GMT DAY 18 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $5.4 \%$ PRESSURE: $5.4 \%$ WINDS: $15.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW PERCENT

HR PP TT WV DD 00
$\begin{array}{lllll}03 & 981 & -9 & 7 & 158\end{array}$
$\begin{array}{lllll}06 & 983 & -6 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 984 & -10 & 11 & 187\end{array}$
$\begin{array}{llll}12 & 987 & -11 & 3 \\ 209\end{array}$
$\begin{array}{llll}15 & 988 & -12 & 240\end{array}$
$\begin{array}{lllll}18 & 990 & -14 & 5 & 194\end{array}$
$\begin{array}{llll}21 & 991 & -10 \quad 6 \quad 178\end{array}$ DAY 8
$\begin{array}{llll}00 & 971 & -21 & 519\end{array}$
$\begin{array}{lllll}03 & 968 & -20 & 8 & 188\end{array}$
$\begin{array}{lllll}06 & 966 & -17 & 1 & 60\end{array}$
$\begin{array}{lllll}09 & 965 & -21 & 12 & 171\end{array}$
$\begin{array}{lllll}12 & 964 & -22 & 7 & 161\end{array}$
$\begin{array}{lllll}15 & 963 & -22 & 8 & 178\end{array}$
$\begin{array}{llll}18 & 960 & -22 & 2144\end{array}$
21 956-20 0 0 DAY 15
$\begin{array}{lllll}00 & 963 & -9 & 11 & 182\end{array}$
$\begin{array}{lllll}03 & 963 & -7 & 9 & 188\end{array}$
$\begin{array}{lllll}06 & 964 & -7 & 10 & 189\end{array}$
$\begin{array}{lllll}09 & 965 & -6 & 8 & 192\end{array}$
$\begin{array}{lllll}12 & 966 & -5 & 5 & 195\end{array}$
$\begin{array}{lllll}15 & 967 & -5 & 4 & 153\end{array}$
$\begin{array}{lllll}18 & 968 & -5 & 9 & 161\end{array}$
$\begin{array}{lllll}21 & 969 & -5 & 8 & 160\end{array}$ DAY 22
$\begin{array}{lllll}00 & 964 & -9 & 8 & 153\end{array}$
$\begin{array}{lllll}03 & 963 & -8 & 6 & 129\end{array}$
$\begin{array}{lllll}06 & 961 & -7 & 8 & 150\end{array}$
$\begin{array}{lllll}09 & 963 & -9 & 9 & 142\end{array}$
$\begin{array}{lllll}12 & 965 & -8 & 7 & 137\end{array}$
$\begin{array}{lllll}15 & 967 & -8 & 6 & 129\end{array}$
$\begin{array}{lllll}18 & 970 & -8 & 7 & 146\end{array}$
$\begin{array}{lllll}21 & 973 & -8 & 11 & 137\end{array}$
DAY 29
00
$\begin{array}{lllll}03 & 973 & -20 & 9 & 217\end{array}$
$\begin{array}{llll}06 & 971 & -23 & 7 \\ 215\end{array}$
$\begin{array}{llll}09 & 968 & -24 & 281\end{array}$
$\begin{array}{llll}12 & 966 & -27 & 2\end{array}$
$\begin{array}{lllll}15 & 963 & -28 & 2 & 192\end{array}$
$\begin{array}{llll}18 & 960 & -31 & 2317\end{array}$
$\begin{array}{llll}21 & 958 & -28 & 7 \\ 185\end{array}$

PP TT VV DD PP TT VV DD DAY 2
993-10 0
$\begin{array}{llll}993 & -8 & 4 & 153\end{array}$
$\begin{array}{llll}993 & -9 & 2 & 125\end{array}$
$\begin{array}{llll}993 & -8 & 8 & 144\end{array}$
$\begin{array}{llll}992 & -9 & 10 & 139\end{array}$
$991-1010161$
$990-10 \quad 12160$
$\begin{array}{lllll}988 & -8 & 10 & 143\end{array}$ DAY 9
953-17 1317
952-17 0
950-18 2261
$\begin{array}{llll}948 & -7 & 13 & 171\end{array}$
949-10 19184
$949-12 \quad 17177$
950-14 27171
950-15 27185 DAY 16
$\begin{array}{llll}969 & -4 & 7140\end{array}$
$\begin{array}{llll}969 & -4 & 5 & 144\end{array}$
$\begin{array}{llll}969 & -4 & 5 & 143\end{array}$
$\begin{array}{llll}969 & -5 & 6 & 132\end{array}$
$\begin{array}{llll}969 & -6 & 7175\end{array}$
$\begin{array}{llll}968 & -6 & 6 & 175\end{array}$
$\begin{array}{llll}967 & -6 & 5 & 177\end{array}$
$\begin{array}{llll}967 & -7 & 6 & 177\end{array}$ DAY 23
$\begin{array}{llll}975 & -8 & 10 & 133\end{array}$
$\begin{array}{llll}976 & -8 & 8 & 123\end{array}$
$\begin{array}{llll}977 & -9 & 8 & 139\end{array}$
$\begin{array}{llll}977 & -9 & 10 & 127\end{array}$
$\begin{array}{llll}978 & -9 & 10 & 127\end{array}$
977-10 13140
978-10 $18 \quad 157$
977-10 16147 DAY 30
$\begin{array}{llll}958 & -26 & 3 & 185\end{array}$
958-26 9177
$\begin{array}{llll}959 & -26 & 6 & 167\end{array}$
$\begin{array}{llll}960 & -27 & 6 & 178\end{array}$
$\begin{array}{llll}960 & -27 & 6 & 189\end{array}$
961-27-8 181
$\begin{array}{llll}961 & -26 & 9 & 177\end{array}$
962-25 0

| PP | TT | VV | DD |
| :---: | :---: | :---: | :---: |
|  | DAY | 3 |  |
| 987 | -7 | 9 | 135 |
| 985 | -8 | 8 | 133 |
| 983 | -8 | 9 | 143 |
| 982 | -7 | 11 | 139 |
| 981 | -7 | 13 | 156 |
| 979 | -7 | 13 | 142 |
| 978 | -7 | 13 | 142 |
| 977 | -6 | 9 | 144 |
| DAY | 10 |  |  |

953-10 19184
$\begin{array}{llll}957 & -8 & 10 & 178\end{array}$
$\begin{array}{llll}961 & -7 & 9 & 178\end{array}$
$\begin{array}{lllll}965 & -8 & 11 & 196\end{array}$
968-10 14191
971-11 10198
974-12 12198
DAY 17
$\begin{array}{llll}967 & -6 & 6 & 154\end{array}$
$\begin{array}{llll}967 & -6 & 5 & 174\end{array}$
$\begin{array}{llll}967 & -7 & 4 & 202\end{array}$
$\begin{array}{llll}966 & -9 & 0 & 0\end{array}$
965-10 6196
964-11 0
964-10 0
DAY 24
$976-919142$
$\begin{array}{lll}974 & -9 & 17146\end{array}$
$971-920154$
$\begin{array}{llll}971 & -8 & 21 & 147\end{array}$
$\begin{array}{llll}969 & -7 & 18 & 147\end{array}$
$\begin{array}{llll}969 & -6 & 17 & 147\end{array}$
$\begin{array}{llll}968 & -7 & 11 & 136\end{array}$
969 -6 16144 DAY 31
963-20 0
963-22 0
965-22 7198
967-21 4177
970-22 0
975-20 5195
979-19 0
985-18 1229

PP TT VV DD PP TT VV DD PP TT VV DD DAY 4
$\begin{array}{llll}977 & -5 & 11 & 161\end{array}$
$\begin{array}{llll}976 & -4 & 8 & 154\end{array}$
$\begin{array}{llll}974 & -3 & 6 & 158\end{array}$
$\begin{array}{llll}973 & -5 & 7 & 178\end{array}$
$\begin{array}{llll}972 & -6 & 8 & 174\end{array}$
$\begin{array}{llll}971 & -6 & 6 & 184\end{array}$
$\begin{array}{llll}970 & -7 & 2 & 139\end{array}$
$\begin{array}{llll}970 & -8 & 6 & 189\end{array}$ DAY 11
976-10 9178
$\begin{array}{llll}977 & -8 & 0 & 0\end{array}$
978-10 14178
978-11 12181
978-14 3223
976-16 11205
972-15 5153
969-14 12178
DAY 18
$\begin{array}{llll}964 & -8 & 12181\end{array}$
$\begin{array}{llll}965 & -8 & 11 & 182\end{array}$
$\begin{array}{lllll}966 & -8 & 14 & 187\end{array}$
$\begin{array}{llll}969 & -7 & 16 & 187\end{array}$
$\begin{array}{llll}971 & -9 & 15 & 195\end{array}$
$\begin{array}{llll}973 & -9 & 12194\end{array}$
$\begin{array}{llll}975 & -10 & 12199\end{array}$
977-12 15198
DAY 25
$969-514140$
$\begin{array}{llll}970 & -5 & 13140\end{array}$
$971-417150$
$\begin{array}{llll}972 & -4 & 13 & 150\end{array}$
$\begin{array}{llll}974 & -4 & 14 & 160\end{array}$
$\begin{array}{llll}975 & -4 & 15 & 142\end{array}$
$\begin{array}{lllll}977 & -4 & 13 & 157\end{array}$
$979-413154$

DAY 5
$\begin{array}{llll}971 & -6 & 4 & 178\end{array}$
$\begin{array}{llll}970 & -5 & 6 & 144\end{array}$
$\begin{array}{llll}970 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}970 & -7 & 8 & 177\end{array}$
$\begin{array}{llll}970 & -9 & 13 & 184\end{array}$
971-13 12195
$\begin{array}{llll}972 & -13 & 9 & 187\end{array}$
974-13 4258 DAY 12
965-13 17185
962-12 19188
959-11 14175
$\begin{array}{llll}960 & -14 & 16184\end{array}$
$\begin{array}{llll}961 & -14 & 17 & 181\end{array}$
961-15 13174
962-16 $16 \quad 172$
964-14 16181 DAY 19

979-10 $\quad 3 \quad 198$
978-11 17172
980-12 $20 \quad 180$
979-12 19177
981-10 19182
$\begin{array}{llll}981 & -1216182\end{array}$
982-11 16182 DAY 26
$\begin{array}{llll}981 & -3 & 11 & 142\end{array}$
$\begin{array}{llll}982 & -3 & 8 & 130\end{array}$
$\begin{array}{llll}983 & -4 & 11 & 133\end{array}$
$\begin{array}{llll}984 & -4 & 9 & 140\end{array}$
$\begin{array}{llll}985 & -5 & 8 & 149\end{array}$
$\begin{array}{llll}985 & -6 & 10 & 150\end{array}$
$\begin{array}{llll}985 & -7 & 9 & 126\end{array}$

## DAY 6

975-10 1217
976-10 4206
$\begin{array}{lll}976 & -9 & 1233\end{array}$
976-12 2184
976-13 5192
$\begin{array}{llll}976 & -14 & 8 & 191\end{array}$
975-15 0 0
976-14 5191 DAY 13
965-11 12185
$\begin{array}{llll}966 & -9 & 5 & 185\end{array}$
967-10 2215
967-11 1156
967-10 9164
$\begin{array}{llll}966 & -8 & 9 & 177\end{array}$
964-10 12163
$\begin{array}{llll}963 & -9 & 9 & 160\end{array}$ DAY 20
$\begin{array}{llll}979 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}976 & -8 & 1 & 109\end{array}$
974-10 7175
972-10 6191
971-12 9187
$\begin{array}{llll}969 & -14 & 9 & 191\end{array}$
$\begin{array}{llll}968 & -13 & 8182\end{array}$ DAY 27
$\begin{array}{llll}985 & -7 & 10 & 143\end{array}$
$\begin{array}{llll}983 & -7 & 8 & 153\end{array}$
$\begin{array}{llll}982 & -6 & 8 & 139\end{array}$
$\begin{array}{llll}981 & -8 & 7 & 177\end{array}$
$\begin{array}{llll}980 & -8 & 6 & 181\end{array}$
980-10 0
980-13 1202
980-13 00

PP TT VV DD DAY 7
976-15 1285
976-13 5181
976-15 6258
975-19 15192
974-20 16202
$974-2116201$
$973-217213$
972-19 1250
DAY 14
$\begin{array}{llll}960 & -8 & 8 & 144\end{array}$
$\begin{array}{llll}960 & -7 & 15 & 143\end{array}$
$\begin{array}{llll}959 & -7 & 10 & 144\end{array}$
$\begin{array}{llll}959 & -7 & 9 & 153\end{array}$
$\begin{array}{llll}959 & -7 & 9 & 177\end{array}$
$\begin{array}{llll}959 & -7 & 11 & 180\end{array}$
$960-911181$
961-10 9184 DAY 21
968-13 11184
968 -12 10195
$\begin{array}{llll}968 & -14 & 9 & 195\end{array}$
968-15 7195
$969-16 \quad 5229$
$\begin{array}{lll}968 & -16 & 6 \\ 225\end{array}$
$\begin{array}{lllll}966 & -12 & 10 & 177\end{array}$
$\begin{array}{llll}966 & -11 & 13163\end{array}$ DAY 28

979-11 $0 \quad 0$
979-11 0
$979-1410195$
980-16 14181
$979-1914175$
977-19 13171
$977-19 \quad 7188$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-11.3$ std dev $=5.9$ max $=-2.9$ at 2340 gmt on day 25 min $=-30.5$ at 1710 gmt on day 29
* theta (K) * MEAN $=264.06$
* PRESSURE (MB) * MEAN $=971.2$ STD DEV $=9.2$ MAX $=993.5$ AT 410 GMT ON DAY 2 MIN $=948.1$ AT 830 GMT ON DAY 9
* WINDS (M/S) * MEAN $=8.7 \mathrm{STD}$ DEV $=5.4$ RESULTANT $=7.9$ FROM 170. CONSTANCY $=0.92 \mathrm{MAX}=32.8$ FROM 180 . AT 1920 GMT DAY 9
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.2 \%$ PRESSURE: $3.2 \%$ WINDS: $3.2 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrr}\text { WIND SPEED }(M / S): ~ & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ \text { PERCENT: } & 16 & 4 & 13 & 15 & 16 & 11 & 10 & 5 & 5 & 4 & 0 & 1 & 0 & 0 & 0 & 0 & 0\end{array}$

PERCENT

$$
\begin{array}{llllllllllllllll}
0 & 0 & 0 & 0 & 0 & 1 & 21 & 17 & 38 & 14 & 5 & 2 & 1 & 0 & 1 & 0
\end{array}
$$

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 990 & -19 & 4 & 133\end{array}$
$\begin{array}{llll}03 & 992 & -20 & 1 \\ 271\end{array}$
$\begin{array}{lllll}06 & 994 & -21 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 994 & -22 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 993 & -21 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 991 & -20 & 1 & 258\end{array}$
$\begin{array}{llll}18 & 989 & -19 & 2360\end{array}$
$21986-149139$
DAY 8
$\begin{array}{lllll}00 & 962 & -14 & 21 & 168\end{array}$
$\begin{array}{llllll}03 & 961 & -13 & 21 & 167\end{array}$
$\begin{array}{lllll}06 & 959 & -14 & 23 & 181\end{array}$
$\begin{array}{lllll}09 & 958 & -14 & 23170\end{array}$
$\begin{array}{lllll}12 & 956 & -14 & 21 & 180\end{array}$
$\begin{array}{lllll}15 & 956 & -11 & 20 & 171\end{array}$
$\begin{array}{lllll}18 & 956 & -12 & 18 & 177\end{array}$
21 957-12 19180 DAY 15
$\begin{array}{lllll}00 & 982 & -28 & 17 & 168\end{array}$
$\begin{array}{llllll}03 & 982 & -27 & 16 & 184\end{array}$
$\begin{array}{llllll}06 & 982 & -25 & 14 & 194\end{array}$
$\begin{array}{llllll}09 & 983 & -25 & 11 & 198\end{array}$
$\begin{array}{lllll}12 & 984 & -25 & 9 & 189\end{array}$
$\begin{array}{lllll}15 & 985 & -25 & 12192\end{array}$
$\begin{array}{llll}18 & 986 & -26 & 13 \\ 187\end{array}$
21 988-26 16192 DAY 22
$\begin{array}{llll}00 & 983 & -10 & 16 \\ 151\end{array}$ $\begin{array}{lllll}03 & 984 & -10 & 15 & 144\end{array}$ $\begin{array}{llll}06 & 985 & -10 & 16 \\ 144\end{array}$ $09 \quad 986-1010133$
$\begin{array}{lllll}12 & 987 & -10 & 17 & 136\end{array}$
$\begin{array}{lllll}15 & 987 & -10 & 13 & 136\end{array}$
$\begin{array}{lllll}18 & 987 & -10 & 17 & 147\end{array}$
$21 \quad 986$-10 15151 DAY 29
$\begin{array}{lllll}00 & 991 & -20 & 23 & 167\end{array}$
$\begin{array}{lllll}03 & 988 & -20 & 22 & 167\end{array}$

PP TT VV DD PP TT VV DD DAY 2
984-13 11147
983-13 19178
983-14 18172
985-11 19171
987-13 2237
987-19 3264
988-19 4123
987-14 22172 DAY 9
957-10 20178
$957-1016175$
959-10 14187 $\begin{array}{llll}960 & -9 & 13 & 187\end{array}$ $\begin{array}{llll}962 & -8 & 8 & 185\end{array}$ $\begin{array}{llll}963 & -7 & 6 & 181\end{array}$ $\begin{array}{llll}964 & -7 & 11 & 168\end{array}$ $\begin{array}{llll}966 & -8 & 12 & 160\end{array}$ DAY 16
$990-2715181$ $991-2916175$ $992-2822178$ $993-2721185$ 991 -28 18189 $991-2618185$ 990 -26 3275 DAY 23

982-11 19164 $979-1420156$ 978-13 26168 976 -13 25167 974-13 20164 $975-1325164$ $974-1521175$ DAY 30

## DAY 3

986-17 23170
983 -16 25161
$979-1723160$
978 -16 28160
$975-15 \quad 27147$
973 -16 27158
$973-1625157$
972-16 25151
DAY 10
$\begin{array}{llll}966 & -8 & 8 & 135\end{array}$
$\begin{array}{llll}967 & -8 & 9 & 147\end{array}$
$\begin{array}{llll}968 & -9 & 10 & 149\end{array}$
$\begin{array}{llll}970 & -9 & 11 & 130\end{array}$
$\begin{array}{llll}973 & -10 & 10 & 147\end{array}$
974-11 11170
975-11 $8 \quad 181$
975-14 2313 DAY 17
988-26 2337
987-24 1350
985-22 2340
985-22 1340
983-20 4153
983-19 15177
982-19 15180
982-18 15165
DAY 24
976 -16 23184
$974-1523182$
$973-1620172$
$975-1723180$
974-17 15181
974-17 23177
976-16 24175
978-16 27172

PP TTVV DD DAY 4
973-14 29149
970-14 21149
969-13 22150
970-13 23142
970-12 23156
972-12 22156
974-12 25156
975-12 21149 DAY 11
976-13 1315
976-15 7189
$975-17 \quad 9195$
$974-18 \quad 9 \quad 192$
$\begin{array}{llll}974 & -20 & 8 & 191\end{array}$
973-22 2239
$\begin{array}{llll}974 & -22 & 7203\end{array}$
$\begin{array}{llll}975 & -23 & 6 & 212\end{array}$ DAY 18
982-15 13156
982-12 16149
983-11 16172
984-11 14163
$\begin{array}{llll}984 & -9 & 13 & 140\end{array}$
985-10 14122
986-11 12151
987-11 18132 DAY 25
$\begin{array}{llll}982 & -13 & 12187\end{array}$ 984-15 20174 985-16 21160 986-19 24177
985-19 22178
987-19 24187
987-21 8206

PP TT VV DD PP TT VV DD DAY 5
977-13 21163
979 -14 21168 979-15 21172

980-17 18185
$979-1717171$
978 -17 16185
977-18 16191
975 -17 21165 DAY 12
976-22 9187
$978-2113192$
$\begin{array}{llll}977 & -22 & 9 & 191\end{array}$
977 -23 1337
975 -20 20185
$973-21 \quad 22187$
$973-22 \quad 27177$
975 -22 28168 DAY 19
987-10 16132 988-10 19139 987-11 15129 989-11 15140 989-10 14156 $989-1114154$ 988-13 14187 987-12 21. 196 DAY 26
986-22 25170 985-22 29171 $985-2210116$ 984-21 13157 $984-2013158$ 982-19 23161 983-18 $21 \quad 170$ $983-1823158$

DAY 6

974-17 1327
973-17 1201
973-19 1126
$973-22 \quad 2331$
973 -21 0
$973-226185$
973 -21 7182 DAY 13
$\begin{array}{llll}977 & -21 & 24 & 178\end{array}$
$980-2124174$
981-21 19180
$\begin{array}{lll}981 & -2216174\end{array}$
$\begin{array}{lll}982 & -23 & 22187\end{array}$
$\begin{array}{llll}982 & -25 & 16189\end{array}$ DAY 20
$\begin{array}{llll}986 & -9 & 9 & 143\end{array}$
986-10 11133
984-11 12120
984-11 16139
$983-1014133$
982-10 17127
981 -10 14133
DAY 27
983-19 17149
$\begin{array}{llll}985 & -20 & 19 & 167\end{array}$
$984-20 \quad 26 \quad 167$
985-20 23175
985-19 13153
986-21 11154
986-22 9185
987-24 1133

PP TT VV DD
DAY 7

973-17 7178
$972-16 \quad 5144$
972 -15 9130
$970-1610144$
969 -16 16136
966-14 13143
$964-1317146$
DAY 14
981-23 2136
$\begin{array}{llll}981 & -23 & 4285\end{array}$
$\begin{array}{llll}980 & -24 & 13 & 203\end{array}$
$980-26 \quad 5236$
$\begin{array}{llll}980 & -25 & 8 & 184\end{array}$
$\begin{array}{llll}981 & -26 & 13168\end{array}$
981-28 16168
981-29 17172
DAY 21
982-10 17133
982-10 18143
983-11 20139
982-11 17130
982-10 17133
981-10 14127
$981-10 \quad 13135$
982-10 16140
DAY 28
988-27
989-26
990-29
992-29
992-28
994-29
994-29 0
993-19 25182
06
09
12
15
18
21

* temperature ( $C$ ) * mean $=-16.9$ Std dev $=5.7$ MAX $=-6.5$ AT 1410 GMT ON DAY 9 MIN $=-30.2$ At 1350 GMT ON DAY 28
* Theta (K) * MEAN $=257.82$
* PRESSURE (MB) * MEAN $=979.6$ STD DEV $=8.6$ MAX $=994.2$ AT 710 GMT ON DAY 1 MIN $=955.4$ AT 1210 GMT ON DAY 8
* WINDS ( $\mathrm{M} / \mathrm{S}$ ) * MEAN $=14.7 \mathrm{STD}$ DEV $=7.5$ RESULTANT $=13.8 \mathrm{FROM} 165$. CONSTANCY $=0.94 \mathrm{MAX}=30.8$ FROM 164 . AT 700 GMT DAY 3
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $9.2 \%$ PRESSURE: $9.2 \%$ WINDS: $11.7 \%$
 PERCENT: $\begin{array}{lllllllllllllll}10 & 2 & 3 & 5 & 6 & 6 & 10 & 12 & 10 & 7 & 24 & 6 & 0 & 0\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 1 & 0 & 0 & 0 & 0 & 2 & 19 & 28 & 36 & 6 & 0 & 1 & 1 & 0 & 1 & 3\end{array}$

JAN 97
HR PP TT VV DD PP TT VV DD PP TT VV DD DAY 1
00
$\begin{array}{lllll}03 & 982 & 0 & 17 & 137\end{array}$
$06981 \quad 111132$
$09 \quad 980 \quad 115133$
$\begin{array}{lllll}12 & 981 & 1 & 16132\end{array}$
$\begin{array}{llll}15 & 980 & 014156\end{array}$
$\begin{array}{lllll}18 & 981 & -1 & 18 & 142\end{array}$
$\begin{array}{lllll}21 & 981 & -2 & 19 & 143\end{array}$ DAY 8
$\begin{array}{lllll}00 & 978 & -1 & 13 & 120\end{array}$
$\begin{array}{lllll}03 & 977 & -1 & 16 & 116\end{array}$
$06 \quad 976 \quad 0 \quad 17 \quad 123$
$\begin{array}{lllll}09 & 976 & 0 & 15 & 125\end{array}$
$\begin{array}{lllll}12 & 974 & -1 & 14 & 122\end{array}$
$\begin{array}{lllll}15 & 976 & -1 & 14 & 127\end{array}$
$\begin{array}{lllll}18 & 976 & -1 & 12 & 130\end{array}$
$\begin{array}{lllll}21 & 977 & -1 & 16 & 137\end{array}$ DAY 15
00
$\begin{array}{lllll}03 & 992 & -3 & 18 & 125\end{array}$
$\begin{array}{lllll}06 & 991 & -2 & 13 & 143\end{array}$
$09 \quad 989-217119$
$\begin{array}{lllll}12 & 990 & -3 & 24 & 127\end{array}$
$\begin{array}{lllll}15 & 989 & -3 & 27 & 127\end{array}$
$\begin{array}{lllll}18 & 986 & -4 & 23 & 130\end{array}$
$\begin{array}{lllll}21 & 985 & -4 & 18 & 132\end{array}$ DAY 22
$\begin{array}{lllll}00 & 996 & -3 & 10 & 135\end{array}$
$03 \quad 996 \quad 1 \quad 6126$
$06 \quad 996 \quad 1 \quad 7116$
$\begin{array}{lllll}09 & 994 & -1 & 10 & 106\end{array}$
$\begin{array}{lllll}12 & 992 & -2 & 10 & 112\end{array}$
$\begin{array}{lllll}15 & 988 & -4 & 13 & 94\end{array}$
$\begin{array}{lllll}18 & 987 & -4 & 22 & 116\end{array}$
$\begin{array}{lllll}21 & 986 & -4 & 21 & 119\end{array}$ DAY 29
$\begin{array}{lllll}00 & 999 & -3 & 11 & 153\end{array}$
$031000 \quad 2 \quad 2268$
06100211300
$091002-1 \quad 8 \quad 136$
$\begin{array}{lllll}12 & 1002 & -3 & 14 & 130\end{array}$
$\begin{array}{lllll}15 & 1003 & -5 & 14 & 122\end{array}$
$\begin{array}{lllll}18 & 1002 & -6 & 16 & 143\end{array}$
$211004-616140$
 DAY 2
$\begin{array}{llll}982 & -1 & 20 & 130\end{array}$
981017146 $981 \quad 112137$ 982010116 $983-111133$
$\begin{array}{llll}983 & -4 & 17 & 130\end{array}$
$\begin{array}{lllll}985 & -4 & 18 & 137\end{array}$
$\begin{array}{llll}985 & -3 & 9 & 153\end{array}$
DAY 9
$\begin{array}{llll}977 & -1 & 11 & 130\end{array}$
$978 \quad 113140$
$978 \quad 2 \quad 9139$
$979 \quad 2 \quad 7142$
$\begin{array}{llll}980 & -3 & 9 & 136\end{array}$
$981-410136$
$\begin{array}{llll}982 & -7 & 13 & 147\end{array}$
$\begin{array}{llll}983 & -2 & 6 & 142\end{array}$
DAY 16
$984-418140$
$984-220133$
984017146
$\begin{array}{llll}986 & -1 & 14 & 135\end{array}$
987 -2 17127
988 -2 14130
$\begin{array}{llll}988 & -3 & 19 & 129\end{array}$
$988-419142$
DAY 23
$\begin{array}{llll}991 & -2 & 7116\end{array}$
$\begin{array}{llll}993 & -1 & 7 & 53\end{array}$
$\begin{array}{llll}994 & -1 & 1 & 21\end{array}$
$\begin{array}{llll}994 & -2 & 9 & 161\end{array}$
$\begin{array}{llll}994 & -3 & 18 & 130\end{array}$
$\begin{array}{llll}994 & -3 & 8 & 118\end{array}$
$\begin{array}{llll}996 & -3 & 14 & 136\end{array}$
DAY 30
1004 -6 16140
$\begin{array}{llll}1003 & -4 & 10 & 109\end{array}$
$\begin{array}{llll}1003 & -3 & 1211\end{array}$
$\begin{array}{llll}1001 & -3 & 17 & 111\end{array}$
$\begin{array}{llll}994 & -3 & 24 & 108\end{array}$
$993-420123$
$991-415125$
993 -3 15105
 DAY 3
$\begin{array}{llll}986 & -1 & 9 & 106\end{array}$
$987 \quad 1 \quad 2306$
98700
$988 \quad 200$
$\begin{array}{llll}988 & -1 & 1 & 196\end{array}$
$\begin{array}{llll}988 & -4 & 18 & 135\end{array}$
$\begin{array}{lllll}988 & -4 & 18 & 127\end{array}$
$\begin{array}{llll}986 & -3 & 15 & 133\end{array}$ DAY 10

\section*{98600 <br> $987 \quad 2 \quad 0 \quad 0$ <br> | 988 | 1 | 1 |
| :--- | :--- | :--- | <br> $\begin{array}{llll}989 & -1 & 1 & 171\end{array}$ <br> $\begin{array}{llll}990 & -3 & 0 & 0\end{array}$ <br> $\begin{array}{llll}992 & -3 & 2111\end{array}$ <br> 993 -3 12149} DAY 17

$989-415139$
$\begin{array}{llll}989 & -3 & 18 & 137\end{array}$
$989-114143$
$\begin{array}{llll}988 & -1 & 19 & 137\end{array}$
$988-318122$
$989-422125$
$990-517132$
$993-619126$ DAY 24
$995-317132$
$993-212133$
$993-116120$
$992-214125$
$\begin{array}{lll}992 & -4 & 22140\end{array}$
$991-518129$
$\begin{array}{llll}989 & -7 & 20 & 132\end{array}$
$\begin{array}{llll}989 & -7 & 20 & 136\end{array}$ DAY 31
997 -2 10123
$\begin{array}{llll}1001 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}1004 & -1 & 6 & 298\end{array}$
1006 -1 3275
1006 -2 3174
$\begin{array}{llll}1006 & -2 & 8147\end{array}$
$\begin{array}{lll}1005 & -1 & 5146\end{array}$
100508119

PP TT VV DD PP TT WV DD PP TT WV DD

DAY 4
$984-312111$
$\begin{array}{llll}980 & -3 & 20 & 99\end{array}$
$\begin{array}{llll}973 & -3 & 25 & 99\end{array}$
$\begin{array}{llll}967 & -3 & 31 & 112\end{array}$
$\begin{array}{llll}963 & -3 & 25 & 115\end{array}$
$962-331118$
$\begin{array}{llll}962 & -3 & 27 & 115\end{array}$
$\begin{array}{llll}963 & -3 & 22126\end{array}$ DAY 11
$995-116139$
$994 \quad 0 \quad 12122$
$994 \quad 013113$
$\begin{array}{llll}994 & -1 & 9 & 115\end{array}$
$994-210125$
$\begin{array}{llll}995 & -1 & 5 & 177\end{array}$
$\begin{array}{llll}996 & -1 & 3 & 106\end{array}$
997 -3 11156
DAY 18
$994-522160$
$\begin{array}{llll}993 & -3 & 14139\end{array}$
$\begin{array}{llll}994 & -1 & 16 & 130\end{array}$
$993-112123$
$994-312115$
$994-413129$
$994-615137$
$994-517136$ DAY 25
$990 \quad-621140$
$\begin{array}{llll}990 & -4 & 20 & 119\end{array}$
$990-313139$
$\begin{array}{lllll}990 & -3 & 11 & 125\end{array}$
$991-312130$
$\begin{array}{llll}991 & -4 & 15 & 126\end{array}$
$990 \quad-6 \quad 9130$
$\begin{array}{llll}989 & -5 & 13 & 137\end{array}$

PP TT WV DD DAY 5
$969-126109$ 971 -1 19104
$973-215111$
$974-215120$
$974-212111$
975 -2 11108
$\begin{array}{llll}976 & -3 & 14 & 122\end{array}$ DAY 12
$998 \quad 1 \quad 3196$
9972237
99600
996200
$\begin{array}{llll}994 & -1 & 7 & 149\end{array}$
$\begin{array}{llll}992 & -5 & 15 & 143\end{array}$
988 -6 19135
$983-416137$ DAY 19
$\begin{array}{llll}993 & -1 & 15 & 123\end{array}$
$\begin{array}{lllll}992 & -1 & 11 & 122\end{array}$
$\begin{array}{lllll}991 & -1 & 13 & 133\end{array}$
$992-412130$
993 -6 17140
$993-720151$
$994-618151$ DAY 26
$\begin{array}{llll}989 & -4 & 14133\end{array}$
$\begin{array}{llll}988 & -2 & 6 & 129\end{array}$
$\begin{array}{llll}987 & -1 & 8 & 143\end{array}$
$\begin{array}{llll}986 & -3 & 9 & 129\end{array}$
$\begin{array}{llll}986 & -6 & 11 & 136\end{array}$
$\begin{array}{llll}987 & -7 & 8 & 153\end{array}$
$\begin{array}{llll}988 & -8 & 12 & 143\end{array}$
$\begin{array}{llll}989 & -6 & 11 & 144\end{array}$

| PP | $\begin{array}{r} \text { TT WV } \\ \text { DAY } 6 \end{array}$ | DD |  | $\begin{array}{r} \text { TT WV } \\ \text { DAY } 7 \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 977 | -2 15 | 130 | 974 | 017 | 7122 |
| 977 | -1 9 | 119 | 974 | 113 | 3113 |
| 977 | -1 10 | 106 | 973 | 116 | 1112 |
| 977 | 02 | 61 | 975 | 016 | 166 |
| 977 | -1 6 | 88 | 977 | 017 | 1712 |
| 976 | -1 8 | 84 | 977 | 013 | 3118 |
| 975 | -1 8 | 99 | 977 | -1 24 | 104 |
| 975 | 014 | 99 | 978 | -1 17 | 112 |
|  | DAY 13 |  |  | DAY 14 |  |
| 981 | -4 15 | 126 |  |  |  |
| 975 | -4 22 | 139 | 990 | 27 | 7104 |
| 975 | -3 14 | 146 | 992 | 23 | 354 |
| 973 | -3 20 | 142 | 994 | 10 | 0 |
| 974 | -3 16 | 147 | 994 | -2 6 | 6136 |
| 979 | -3 20 | 137 | 996 | -4 19 | 132 |
| 982 | -3 15 | 147 | 995 | -5 17 | 132 |
| 985 | -2 13 | 146 | 995 | -4 14 | 140 |
|  | DAY 20 |  |  | DAY 21 |  |
| 993 | -4 15 | 135 | 990 | -3 14 | 139 |
| 993 | -2 11 | 122 | 991 | -1 15 | 153 |
| 992 | -1 12 | 123 | 992 | 012 | 135 |
| 992 | -2 11 | 133 | 993 | 07 | 7104 |
| 992 | -5 16 | 125 | 994 | -3 7 | 760 |
| 991 | -6 13 | 150 | 994 | -6 16 | 16149 |
| 991 | -7 14 | 144 | 995 | -7 13 | 136 |
| 992 | -6 21 | 139 | 996 | -5 13 | 147 |
|  | DAY 27 |  |  | DAY 28 |  |
| 990 | -5 14 | 143 |  |  |  |
| 991 | -2 6 | 132 | 985 | -5 21 | 143 |
| 990 | -3 8 | 133 | 986 | -4 18 | 143 |
| 990 | -4 15 | 136 | 988 | -4 12 | 142 |
| 988 | -7 15 | 143 | 990 | -5 9 | 132 |
| 987 | -10 21 | 136 | 991 | -8 16 |  |
| 986 | -9 25 | 142 | 993 | -8 12 | 1218 |
| 985 | -9 18 | 151 | 995 | -7 15 | 132 |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-2.5$ STD DEV $=2.3$ MAX $=2.9$ at 710 GMT ON DAY 14 MIN $=-9.5$ At 1510 GMt ON DAY 27
* theta (K) * MEAN $=271.62$
* PRESSURE (MB) * MEAN $=987.8$ STD DEV $=8.6$ MAX $=1006.3$ AT 1310 GMT ON DAY 31 MIN $=960.2$ AT 1550 GMT ON DAY 4
* WINDS (M/S) * MEAN $=13.2$ STD DEV $=6.2$ RESULTANT $=12.6$ FROM 130. CONSTANCY $=0.96 \mathrm{MAX}=37.8$ FROM 111. AT 1010 GMT DAY 4 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.4 \%$ PRESSURE: $\mathbf{3 . 2} \%$ WINDS: $\mathbf{3 . 2} \%$
$\begin{array}{lrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ \text { PERCENT: } & 7 & 3 & 3 & 8 & 8 & 10 & 14 & 15 & 13 & 7 & 10 & 1 & 1 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

FEB 97
HR PP TTVV DD DAY 1
$\begin{array}{llll}00 & 1004 & 3 & 3 \\ 163\end{array}$ $\begin{array}{llll}03 & 1003 & 3 & 1\end{array} 32$ 06
$091001 \quad 0 \quad 1 \quad 26$

00
$\begin{array}{lllll}03 & 985 & -8 & 15 & 146\end{array}$
$\begin{array}{lllll}06 & 986 & -7 & 17 & 136\end{array}$
$\begin{array}{lllll}09 & 987 & -9 & 20 & 158\end{array}$
$\begin{array}{lllll}12 & 987 & -10 & 18 & 135\end{array}$
$\begin{array}{llllll}15 & 988 & -11 & 19 & 135\end{array}$
$\begin{array}{lllll}18 & 988 & -12 & 18 & 151\end{array}$
$\begin{array}{llll}21 & 987 & -11 & 14139\end{array}$ DAY 22
00 978-10 27144 $\begin{array}{lllll}03 & 976 & -9 & 20 & 127\end{array}$ $\begin{array}{lllll}06 & 978 & -7 & 20 & 158\end{array}$ $\begin{array}{lllll}09 & 979 & -8 & 18 & 137\end{array}$ $\begin{array}{lllll}12 & 979 & -10 & 19 & 144\end{array}$ 15 979-12 20139 $\begin{array}{lllll}18 & 978 & -13 & 15 & 154\end{array}$ 21 980-13 22151
$\begin{array}{llll}999 & -1 & 6 & 84\end{array}$
$\begin{array}{llll}1000 & -5 & 14 & 119\end{array}$ $1000-614126$
$999-511102$ DAY 9
$984-926144$
$\begin{array}{llll}983 & -7 & 24 & 156\end{array}$
$983-511153$
$\begin{array}{llll}984 & -6 & 22 & 133\end{array}$
$\begin{array}{llll}984 & -8 & 18 & 143\end{array}$
$\begin{array}{llll}984 & -9 & 15 & 129\end{array}$
$985-921140$
$984-916149$ DAY 16
PP TT VV DD PP TT VV DD DAY 2 DAY 3
$\begin{array}{llll}996 & -3 & 1 & 77\end{array}$
$\begin{array}{llll}995 & -2 & 7 & 82\end{array}$
$\begin{array}{llll}996 & -3 & 4 & 67\end{array}$
$\begin{array}{llll}997 & -3 & 6 & 84\end{array}$
$\begin{array}{llll}998 & -4 & 9 & 122\end{array}$
$999-518129$
DAY 10
-7 23132
$\begin{array}{llll}983 & -5 & 19 & 142\end{array}$
$982-415135$
$980-520133$
$977-513113$
$976-413139$
$972-516127$
972 -4 18127 DAY 17
990-10 21122
$\begin{array}{llll}989 & -8 & 18 & 136\end{array}$
$\begin{array}{llll}987 & -8 & 19 & 136\end{array}$
$\begin{array}{lll}986 & -9 & 16136\end{array}$
987-11 19147
984-11 22136
982-12 23143
982-10 23129
DAY 24
$\begin{array}{llll}982 & -9 & 13127\end{array}$
$\begin{array}{llll}981 & -6 & 13 & 135\end{array}$
$\begin{array}{llll}980 & -6 & 8 & 136\end{array}$
$\begin{array}{llll}979 & -6 & 8 & 144\end{array}$
$979-612113$
$\begin{array}{lllll}979 & -8 & 14 & 133\end{array}$
982-12 18143
981-12 15130
$\begin{array}{lllllll}983 & -12 & 19 & 139 & 977 & -8 & 14 \\ 133\end{array}$

| PP | $\begin{array}{cc} \text { TT VV } & \text { DD } \\ \text { DAY } 4 & \end{array}$ | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1000 | -4 13129 | 992 | -7 23 | 132 |  |  |  | 979 | -5 | 18 | 136 |
| 1001 | -3 16129 | 989 | -7 24 | 144 | 972 | -4 26 | 140 | 980 | -5 | 21 | 136 |
| 1001 | -2 10108 | 986 | -6 17 | 150 | 972 | -3 26 | 126 | 979 | -4 | 20 | 149 |
| 1001 | $\begin{array}{llll}-3 & 9 & 122\end{array}$ | 986 | -5 28 | 123 | 973 | -3 21 | 123 | 978 | -6 | 17 | 142 |
| 1001 | -6 18137 | 981 | -6 21 | 137 | 976 | -2 9 | 77 | 980 | -6 | 27 | 140 |
| 999 | -7 16136 | 978 | -6 31 | 133 | 978 | -2 14 | 108 | 981 | -7 | 28 | 146 |
| 996 | -8 20137 | 974 | -6 32 | 135 | 980 | -3 14 | 104 | 979 | -8 | 25 | 143 |
| 994 | -7 21133 | 975 | -6 34 | 127 | 980 | -5 23 | 120 | 980 | -8 | 25 | 140 |
|  | DAY 11 |  | DAY 12 |  |  | DAY 13 |  |  | DAY | 14 |  |
|  |  | 982 | 012 | 139 | 987 | -8 19 | 136 | 985 | -12 | 18 | 123 |
| 973 | -1 23122 | 983 | 112 | 130 | 986 | -6 12 | 137 | 983 | -9 | 15 | 118 |
| 975 | -1 23112 | 984 | 111 | 129 | 985 | -5 11 | 151 | 983 | -8 | 14 | 136 |
| 974 | -1 14113 | 985 | -1 16 | 142 | 984 | -7 13 | 139 | 984 | -9 | 22 | 140 |
| 976 | -1 15119 | 986 | -3 16 | 130 | 984 | -10 19 | 133 | 984 | -11 | 22 | 150 |
| 977 | 013113 | 986 | -7 18 | 144 | 983 | -12 19 | 142 | 984 | -12 | 18 | 132 |
| 978 | 011132 | 987 | -8 18 | 130 | 983 | -13 16 | 150 | 984 | 11 | 17 | 133 |
| 980 | 012111 | 987 | -9 19 | 154 | 983 | -13 15 | 122 | 985 | -11 | 17 | 42 |
|  | DAY 18 |  | DAY 19 |  |  | DAY 20 |  |  | DAY | 21 |  |
| 980 | -9 25125 | 959 | -7 19 | 158 |  |  |  | 973 | -5 | 26 | 147 |
| 976 | -7 76156 | 957 | -4 22 | 158 | 968 | -3 16 | 147 | 973 | -5 | 19 | 142 |
| 972 | -7 18130 | 956 | -3 17 | 133 | 969 | -3 21 | 139 | 973 | -6 | 20 | 139 |
| 964 | -5 23133 | 956 | -2 19 | 154 | 970 | -4 18 | 142 | 974 | -7 | 25 | 154 |
| 962 | -5 22139 | 957 | -1 15 | 140 | 970 | -6 18 | 129 | 975 | -8 | 24 | 156 |
| 961 | -6 25153 | 959 | -2 13 | 144 | 971 | -724 | 150 | 976 | -9 | 28 | 140 |
|  |  | 961 | -3 17 | 144 | 971 | -6 24 | 144 | 977 | -10 | 25 | 143 |
|  |  | 965 | -4 20 | 151 | 970 | -720 | 142 | 975 | -10 | 24 | 153 |
|  | DAY 25 |  | DAY 26 |  |  | DAY 27 |  |  | DAY | 28 |  |
|  |  | 977 | -5 18 | 120 | 976 | -8 20 | 157 | 979 | -12 | 23 | 150 |
| 976 | -6 17136 | 976 | -4 14 | 142 | 976 | -7 15 | 139 | 979 | -11 | 21 | 146 |
| 975 |  | 975 | -6 15 | 135 | 977 |  | 153 | 980 | -10 | 22 | 132 |
| 975 |  | 974 | -7 23 | 133 | 977 | -8 22 | 144 | 981 | -10 | 17 | 130 |
| 976 | -5 18131 | 973 | -8 18 | 139 | 978 | -9 24 | 147 | 984 | -12 | 22 | 151 |
| 977 | -7 14143 | 973 | -8 19 | 125 | 978 | -10 23 | 146 | 984 | -13 | 20 | 132 |
| 977 | -7 22129 |  |  |  |  |  |  |  |  |  |  |
| 977 | -5 17133 | 975 | -8 17 | 140 | 981 | -12 31 | 153 | 987 |  | 18 | 129 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-6.6$ Std dev $=3.4$ maX $=2.9$ at 300 GMT ON dAY 1 min $=-13.5$ At 1920 GMt ON dAY 22
* theta (K) * MEAN $=267.99$
* PRESSURE (MB) * MEAN $=981.4$ STD DEV $=9.4$ MAX $=1003.1$ at 230 GMT ON DAY 1 MIN $=954.5$ at 510 GMT ON DAY 19 * WINDS (M/S) * MEAN $=17.8$ STD DEV $=5.8$ RESULTANT $=17.4$ FROM 138 . CONSTANCY $=0.98$ MAX $=38.8$ fROM 125. AT 1710 GMT DAY 5 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $8.9 \%$ PRESSURE: $9.4 \%$ WINDS: $8.9 \%$
 $\begin{array}{llllllllllllllllllllllll} \\ \text { PERCENT: } & 2 & 0 & 1 & 0 & 3 & 4 & 10 & 12 & 17 & 17 & 23 & 8 & 2 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 1 & 0 & 1 & 1 & 12 & 64 & 21 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

MAR 97

| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 1 \end{array}$ |  |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{ll} \mathrm{T} & \mathrm{VV} \\ \mathrm{Y} & 2 \end{array}$ |  | DD |  | $\begin{aligned} & \text { TT } \\ & \text { DAY } \end{aligned}$ | $\begin{aligned} & \text { TVV } \\ & \text { Y } 3 \end{aligned}$ |  | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 4 \end{array}$ | DD | PP |  | $\begin{array}{r} \text { VV } \\ 5 \end{array}$ | DD |  |  | $\begin{array}{r} \text { VV DD } \\ 6 \end{array}$ |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | 7 | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 |  |  |  |  | 996 | -6 | 616 | 613 | 30 | 988 |  | 726 | 136 | 985 | -8 |  | 122 | 977 |  | 20 | 135 |  |  |  |  |  |  |  |
| 03 | 988 | -7 | 12 | 151 | 995 | -7 | 718 | 812 | 26 | 987 |  | 722 | 132 | 983 | -7 |  | 129 | 976 | -9 | 16 | 150 | 984 | -7 | 1182 | 984 | -9 | 5 | 132 |
| 06 | 990 | -6 | 13 | 142 | 994 | -6 | 617 | 712 | 29 | 986 |  | 716 | 135 | 982 | -6 | 12 | 139 | 976 | -8 | 14 | 144 | 984 | -7 | 4137 | 983 |  | 13 | 160 |
| 09 | 991 | -8 | 10 | 139 | 994 | -7 | 721 | 112 | 27 | 986 | -7 | 719 | 139 | 980 | -8 | 14 | 122 | 977 | -10 | 17 | 129 | 984 | -7 | 2163 | 982 | -16 | 17 | 150 |
| 12 | 993 | -9 | 9 | 125 | 993 | -7 | 723 |  | 33 | 986 | -7 | 718 | 149 | 979 | -10 | 16 | 140 | 978 | -11 | 12 | 146 | 985 | -10 | 9136 | 983 | -18 | 19 | 137 |
| 15 | 994 | -9 | 8 | 123 |  |  |  |  |  | 986 |  | 716 | 125 | 978 | -10 | 15 | 142 | 979 | -11 | 9 | 140 | 985 | -13 | 15147 |  |  |  |  |
| 18 | 995 | -7 | 13 | 133 |  |  |  |  |  |  |  |  |  | 977 | -11 | 17 | 140 |  |  |  |  | 984 | -13 | 10144 |  |  |  |  |
| 21 | 995 | -7 | 11 | 142 | 990 | -7 | 72 |  | 27 | 984 |  | 16 | 135 | 977 | -12 | 18 | 136 | 983 | -12 | 15 | 142 | 984 | -11 | 7147 | 981 | -20 | 30 | 161 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  |  | DAY | 10 |  |  | DAY |  |  |  |  | 12 |  |  | DAY | 13 |  | DAY |  |  |
| 00 | 980 | -18 | 19 | 157 | 961 | -18 | 29 | 15 | 57 |  |  |  |  | 985 | -12 | 18 | 163 | 973 | -9 | 20 | 154 | 972 | -9 | 11129 | 966 | -10 | 21 | 158 |
| 03 | 977 | -15 | 12 | 156 | 958 | -13 | 22 | 15 | 57 | 964 | -13 | 330 | 158 | 985 | -10 | 12 | 129 | 970 | -6 | 13 | 160 |  |  |  | 965 | -8 | 16 | 137 |
| 06 | 977 | -15 | 23 | 163 | 960 | -10 | 27 | 71 | 32 | 967 | -13 | 13 | 164 | 984 | -8 | 11 | 153 | 968 | -8 | 17 | 150 | 973 | -8 | 12127 | 965 | -8 | 15 | 129 |
| 09 | 975 | -17 | 13 | 132 | 959 | -10 | 27 | 715 | 54 | 971 | -15 | 20 | 140 | 986 | -11 | 24 | 129 | 971 | -8 | 28 | 156 | 973 | -8 | 11142 | 965 | -8 | 18 | 130 |
| 12 | 975 | -18 | 23 | 170 |  |  |  |  |  |  |  |  |  | 985 | -13 | 21 | 140 | 970 | -12 | 171 | 129 | 972 | -10 | 17130 | 966 | -9 | 18 | 139 |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 969 | -13 | 191 | 140 |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  | 974 | -11 | 20 | 140 | 971 | -10 | 20 | 143 |  |  |  |  |  |  |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY |  |  | DAY | 21 |  |
| 00 |  |  |  |  | 976 | -7 | 712 | 213 | 32 | 974 | -9 | 9 | 149 | 974 | -11 | 18 | 158 |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 971 | -9 | 18 | 125 | 976 | -6 | 612 | 21 | 33 | 974 |  | 712 | 125 | 973 | -9 | 21 | 142 | 988 | -10 | 20 | 150 | 985 | -8 | 14129 | 978 | -9 | 0 | 0 |
| 06 | 972 | -9 | 18 | 120 | 976 | -6 | 611 | 11 | 32 | 975 | -9 | 914 | 139 | 977 | -8 | 15 | 174 | 988 | -9 | 22 | 137 | 983 | -8 | 13132 | 978 | -9 | 9 | 150 |
| 09 | 974 | -12 | 22 | 122 | 977 | -7 | 712 | 21 | 39 | 976 | -11 | 115 | 137 | 978 | -7 | 26 | 151 | 990 | -8 | 16 | 164 | 982 | -7 | 00 | 978 | -13 | 13 | 151 |
| 12 | 973 | -12 | 15 | 140 |  |  |  |  |  | 976 | -13 | 15 | 151 | 981 | -11 | 20 | 147 | 991 | -7 | 16 | 133 | 982 | -8 | 6142 | 977 | -16 | 17 | 136 |
| 15 | 974 | -12 | 14 | 136 |  |  |  |  |  | 975 | -12 | 12 | 127 | 981 | -9 | 14 | 156 |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  | 973 | -13 | 314 | 139 | 986 | -10 | 15 | 151 |  |  |  |  |  | -13 | 15146 |  |  |  |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  |  | DAY |  |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  | DAY | 28 |  |
| 00 | 974 | -16 | 24 | 123 |  |  |  |  |  |  |  |  |  | 974 | -7 | 28 | 144 | 986 | -3 | 10 | 139 | 988 | -5 | 11113 |  |  |  |  |
| 03 | 972 | -15 | 20 | 132 | 979 | -10 | 19 | 91 | 32 | 977 | -9 | 92 | 125 | 973 | -5 | 19 | 136 | 988 | -3 | 9 | 126 | 987 | -5 | 12113 | 986 | -7 | 9 | 135 |
| 06 | 972 | -14 | 15 | 133 | 978 | -8 | 822 | 21 | 26 | 977 | -9 | 92 | 142 | 976 | -5 | 22 | 146 | 988 | -3 | 9 | 118 | 987 | -5 | 8119 | 985 | -7 | 6 | 144 |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 988 | -3 | 6 | 104 | 988 | -9 | 14135 | 984 | -7 | 6 | 130 |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 988 | -9 | 12142 | 984 | -12 | 16 | 144 |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 987 | -9 | 11146 |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 979 | -13 | 3 | 343 | 967 | -23 | 12 | 21 | 51 | 974 | -18 | 8 | 164 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 977 | -14 | 2 | 360 | 967 | -22 |  | 81 |  | 976 |  | 712 | 142 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-9.8$ Std dev $=3.6$ MAX $=-2.5$ AT 810 GMT ON DAY 26 MIN $=-23.5$ AT 810 GMt ON DAY 30
* THETA (K) * MEAN $=264.97$
* PRESSURE (MB) * MEAN $=979.2$ STD DEV $=8.1$ MAX $=996.3$ at 2050 GMT ON DAY 1 MIN $=956.9$ at 1010 GMt ON DAY 9
* $\operatorname{WINDS}(\mathrm{M} / \mathrm{S}) * \operatorname{MEAN}=15.2 \mathrm{STD}$ DEV $=6.3$ RESULTANT $=14.8 \mathrm{FROM} 140$. CONSTANCY $=0.97 \mathrm{MAX}=33.5$ FROM 157. AT 930 GMT DAY 9
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $40.7 \%$ PRESSURE: $41.1 \%$ WINDS: $40.7 \%$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 1 & 0 & 0 & 0 & 0 & 8 & 63 & 26 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 1\end{array}$
PP TT VV DD DAY 2
PP TT VV DD DAY 3
PP TT VV DD DAY 4
PP TT VV DD DAY 5
PP TT VV DD DAY 6
PP TT VV D DAY 7

```
989
991 -7 12 140 979 -12 30 139
```

09
12
15
18
21
DAY 8
DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14
$\begin{array}{llllllll}967 & -11 & 21 & 139 & 982 & -13 & 8 & 139\end{array}$
$\begin{array}{llll}984 & -13 & 15 & 142\end{array}$
988-14 6177
$967-1316143$

DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

| 990 | -12 | 26 | 125 | 992 | -14 | 20 | 133 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llll}988 & -18 & 3 & 135\end{array}$

DAY 22
DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28


* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * A T \quad 0$ GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * *$ AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $91.2 \%$ PRESSURE: $91.2 \%$ WINDS: $91.2 \%$

 $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
HR PP TT VV DD PP TT VV DD PP TT VV DD
DAY 1 DAY 2 DAY 3


PP
DAY 6
DAY 5
-
DAY 6
PP
TT VV
DAY 7

DAY 13
DAY 11
DAY 10
DAY 9
DAY 8

DAY 15
DAY 16

986
989
988
DAY 17

987
DAY 18
DAY 19
DAY 20

DAY 21

985
09
12
15
18
21
DAY 22
DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

00
03
06
09
12
15
18
21
-------------------------------------------------- MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT O GMT ON DAY O MIN =****** AT O GMT ON DAY O
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT

O GMT ON DAY O MIN =****** AT O GMT ON DAY O

* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 100.0 \% PRESSURE: $92.5 \%$ WINDS: $100.0 \%$

| WIND SPEED (M/S): | $0-2$ | $2-4$ | $4-6$ | $6-8$ | $8-10$ | $10-12$ | $12-14$ | $14-16$ | $16-18$ | $18-20$ | $20-25$ | $25-30$ | $30-35$ | $35-40$ | $40-45$ | $45-50$ | $50-55$ | $55-60$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| PERCENT: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW

JAN 97

| HR | PP |  | VV | DD | PP |  |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 983 | 0 | 3 | 225 | 984 | -4 | 1 | 292 | 983 | -5 | 5 | 211 |
| 03 | 983 | -2 | 3 | 129 | 984 | -3 | 1 | 193 | 982 | -3 | 4 | 262 |
| 06 | 983 | -3 | 2 | 180 | 984 | -3 | 2 | 108 | 981 | -3 | 4 | 253 |
| 09 | 983 |  | 0 | 0 | 984 | -4 | 4 | 104 | 980 | -4 | 4 | 232 |
| 12 | 983 | -7 | 3 | 3 | 985 | -4 | 0 | 0 | 980 | -7 | 3 | 204 |
| 15 | 983 | -8 | 2 | 51 | 985 | -4 | 0 | 0 | 979 | -7 | 4 | 225 |
| 18 | 983 | -4 | 0 | 0 | 985 | -4 | 1 | 259 | 979 | -7 | 4 | 219 |
| 21 | 984 | -2 | 0 | 0 | 984 | -6 | 3 | 219 | 979 | -4 | 5 | 226 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 981 | -4 | 1 | 187 | 983 | -5 | 3 | 8 | 985 | -6 | 3 | 300 |
| 03 | 981 |  | 0 | 0 | 983 | -5 | 4 | 355 | 985 | -6 | 3 | 269 |
| 06 | 981 | -6 | 3 | 91 | 983 | -6 | 3 | 340 | 985 | -8 | 7 | 180 |
| 09 | 981 | -5 | 2 | 65 | 983 | -6 | 2 | 343 | 986 | -9 | 6 | 174 |
| 12 | 981 | -7 | 3 | 37 | 983 | -8 | 1 | 345 | 986 | -9 | 5 | 167 |
| 15 | 981 | -7 | 4 | 15 | 984 | -11 | 2 | 10 | 986 | -9 | 3 | 177 |
| 18 | 982 | -7 | 5 | 15 | 984 | -10 | 2 | 14 | 987 | -10 | 6 | 180 |
| 21 | 982 | -6 | 4 | 354 | 985 | -7 | 1 | 360 | 987 | -9 | 5 | 74 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 983 | -4 | 7 | 204 | 987 | -3 | 1 | 6 | 990 | -7 | 3 | 300 |
| 03 | 983 | -4 | 6 | 205 | 988 | -3 | 0 | 0 | 990 | -4 | 1 | 360 |
| 06 | 984 | -4 | 6 | 195 | 988 | -3 | 0 | 0 | 989 | -4 | 1 | 300 |
| 09 | 984 | -7 | 2 | 146 | 989 | -4 | 1 | 6 | 990 | -5 | 2 | 283 |
| 12 | 985 | -8 | 2 | 41 | 989 | -6 | 1 | 267 | 990 | -7 | 1 | 269 |
| 15 | 985 | -9 | 3 | 225 | 989 | -7 | 1 | 297 | 990 | -8 | 0 | 0 |
| 18 | 986 | -9 | 2 | 172 | 990 | -8 | 1 | 319 | 990 | -9 | 2 | 20 |
| 21 | 987 | -6 | 2 | 11 | 990 | -6 | 1 | 333 | 991 | -5 | 1 | 300 |
|  |  |  | 22 |  |  |  |  |  |  |  | $24$ |  |
| 00 | 990 | -6 | 3 | 188 | 993 | -3 |  | 256 | 990 | -6 | 2 | 186 |
| 03 | 990 | -4 | 3 | 245 | 993 |  | 1 | 310 | 990 | -5 | 2 | 188 |
| 06 | 991 | -7 | 3 | 256 | 993 | -5 | 2 | 323 | 989 | -5 | 2 | 233 |
| 09 | 991 | -9 | 2 | 270 | 992 | -7 | 2 | 327 | 989 | -8 | 2 | 173 |
| 12 | 992 | -12 | 2 | 298 | 991 | -9 | 0 | 0 | 989 | -10 | 2 | 204 |
| 15 | 992 | -12 | 3 | 300 | 991 | -8 |  | 310 | 988 | -9 | 3 | 222 |
| 18 | 993 | -8 | 2 | 294 | 990 | -9 | 1 | 17 | 988 | -9 | 3 | 233 |
| 21 | 993 | -3 | 2 | 262 | 990 | -6 | 0 | 0 | 988 | -9 | 5 | 202 |
|  |  | DAY | 29 |  |  |  | 30 |  |  |  | 31 |  |
| 00 | 988 | -9 | 4 | 226 | 989 | -7 | 4 | 233 | 995 | -10 | 4 | 278 |
| 03 | 987 | -8 | 4 | 221 | 990 | -7 | 3 | 222 | 995 | -9 | 5 | 271 |
| 06 | 986 | -9 | 4 | 233 | 991 | -8 | 3 | 235 | 995 | -10 | 3 | 300 |
| 09 | 986 | -10 | 5 | 236 | 992 | -9 | 0 | 0 | 995 | -12 | 3 | 276 |
| 12 | 986 | -15 | 3 | 253 | 992 | -14 |  | 300 | 995 | -16 | 0 | 0 |
| 15 | 987 | -13 |  | 225 | 993 | -15 |  | 327 | 995 | -17 |  | 243 |
| 18 | 988 | -12 | 3 | 210 | 993 | -15 |  | 300 | 995 | -19 |  | 250 |
| 21 | 988 | -10 | 3 | 242 | 994 | -12 |  | 280 | 995 | 15 |  | 202 |


| PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY |  | 4 |  |  | DAY | 5 |  |  | day | 6 |  | day |  |  |  |
| 979 | -3 | 5 | 205 | 980 | -4 | 5 | 10 | 984 | -7 | 5 | 224 | 982 | -7 | 6 | 211 |
| 980 | -4 | 5 | 162 | 980 | -3 | 4 | 344 | 984 | -8 | 5 | 197 | 982 | -5 | 2 | 173 |
| 981 | -4 | 4 | 125 | 980 | -3 | 3 | 343 | 984 | -7 | 5 | 198 | 981 | -7 | 2 | 169 |
| 981 | -4 | 0 | 0 | 981 | -4 |  | 331 | 984 | -7 | 3 | 207 | 981 | -7 | 2 | 180 |
| 981 | -5 | 1 | 8 | 981 | -5 | 0 | 0 | 984 | -7 | 4 | 239 | 980 | -8 | 3 | 193 |
| 981 | -9 | 2 | 10 | 982 | -8 | 4 | 201 | 983 | -8 | 4 | 236 | 980 | -8 | 2 | 156 |
| 980 | -8 | 3 | 14 | 983 | -8 | 4 | 208 | 983 | -7 | 4 | 246 | 980 | -8 | 2 | 200 |
| 980 | -7 | 4 | 17 | 983 | -7 | 5 | 231 | 983 | -7 | 7 | 222 | 981 | -7 | 3 | 80 |
| DAY 11 |  |  |  | DAY 12 |  |  |  | DAY 13 |  |  |  | DAY 14 |  |  |  |
| 988 | -9 | 5 | 193 | 988 | -6 | 2 | 291 | 986 | -2 | 0 | 0 | 985 | -9 | 4 | 269 |
| 987 | -8 | 7 | 193 | 987 | -5 | 4 | 305 | 987 | 0 | 0 | 0 | 984 | -5 | 5 | 259 |
| 987 | -8 | 5 | 195 | 987 | -7 | 5 | 320 | 986 | -5 | 0 | 0 | 983 | -4 | 6 | 208 |
| 988 | -9 | 5 | 198 | 986 | -8 | 3 | 305 | 986 | -9 | 2 | 190 | 983 | 5 | 6 | 208 |
| 988 | -10 |  | 226 | 986 | -9 | 2 | 276 | 987 | -9 | 4 | 205 | 982 | 6 | 5 | 214 |
| 988 | -11 | 3 | 197 | 986 | -11 | 2 | 233 | 987 | -12 | 4 | 194 | 982 | 7 | 4 | 232 |
| 988 | -10 | 2 | 202 | 987 | -10 | 2 | 148 | 986 | -12 | 3 | 186 | 982 | 6 | 5 | 226 |
| 988 | -7 |  | 266 | 987 |  | 0 | 0 | 986 | -10 | 2 | 224 | 982 | -5 | 6 | 215 |
| DAY 18 |  |  |  | DAY 19 |  |  |  | DAY 20 |  |  |  | DAY 21 |  |  |  |
| 991 | 0 | 0 | 0 | 994 | -5 |  | 312 | 993 | -7 | 5 | 212 | 989 | -7 | 5 | 179 |
| 992 | -1 |  | 292 | 994 | -2 |  | 300 | 992 | -7 | 4 | 198 | 989 | -7 | 4 | 191 |
| 992 | -4 |  | 331 | 993 | -4 |  | 273 | 991 | -7 | 6 | 222 | 989 | -6 | 3 | 226 |
| 993 |  | 0 | 0 | 993 | -5 | 0 | 0 | 991 | -7 | 5 | 224 | 988 | -6 | 3 | 264 |
| 993 | -8 |  | 333 | 993 | -8 |  | 180 | 990 | -8 | 5 | 190 | 988 | -7 | 3 | 246 |
| 993 | -10 |  | 340 | 992 | -11 | 2 | 172 | 990 | -9 | 4 | 165 | 988 | -8 | 2 | 229 |
| 994 | -8 |  | 331 | 99 | -11 |  | 87 | 990 | -9 | 5 | 198 | 988 | -7 | 3 | 253 |
| 994 | -7 |  | 302 | 993 | -8 |  | 170 | 990 | -8 | 5 | 174 | 989 | -8 | 3 | 29 |
| DAY 25 |  |  |  | day 26 |  |  |  | DAY 27 |  |  |  | DAY 28 |  |  |  |
| 988 | -10 |  | 201 | 980 | -8 |  | 300 | 984 | -9 |  | 247 | 988 | -7 | 4 | 243 |
| 986 | -8 |  | 232 | 980 | -8 |  | 291 | 984 | -7 |  | 256 | 988 | -5 | 6 | 233 |
| 985 | -7 |  | 239 | 981 | -9 |  | 255 | 985 | -7 |  | 274 | 988 | -6 | 6 | 187 |
| 983 | -8 |  | 245 | 981 | -9 |  | 263 | 985 | -10 | 2 | 14 | 988 | -7 | 4 | 224 |
| 982 | -11 |  | 324 | 982 | -14 |  | 283 | 986 | -9 |  | 336 | 988 | -8 | 7 | 194 |
| 981 | -12 |  | 305 | 982 | -14 |  | 226 | 986 | -9 |  | 292 | 988 | -9 | 4 | 197 |
| 980 | -10 |  | 316 | 982 | -13 |  | 194 | 987 | -13 |  | 295 | 988 | -10 |  | 205 |
| 980 | -10 |  | 313 | 983 | -13 |  | 222 | 987 | -9 |  | 238 | 988 |  |  | 205 |

## MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-7.4$ Std dev $=3.0$ max $=1.5$ at 130 GMT ON dAY 2 MIN $=-20.8$ at 1610 GMt ON DAY 31
* theta (K) * MEAN $=266.81$
* PRESSURE (MB) * MEAN $=986.4$ STD DEV $=4.3$ MAX $=995.2$ AT 2240 GMT ON DAY 31 MIN $=978.7$ AT 1600 GMT ON DAY 3
* WINDS (M/S) * MEAN $=2.8$ STD DEV $=1.7$ RESULTANT $=1.6$ FROM 230 . CONSTANCY $=0.56$ MAX $=12.8$ FROM 187. AT 2250 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W UNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 6 & 4 & 1 & 0 & 1 & 1 & 1 & 2 & 12 & 17 & 17 & 8 & 8 & 10 & 5 & 6\end{array}$

HR PP TT VV DD $\begin{array}{lllll} & & \text { DAY } & 1 \\ 00 & 995 & -9 & 2 & 250\end{array}$ $\begin{array}{llll}03 & 995 & -8 & 2 \\ 288\end{array}$ $\begin{array}{lllll}06 & 995 & -10 & 1 & 269\end{array}$ $\begin{array}{llll}09 & 994 & -13 & 3 \\ 276\end{array}$ $\begin{array}{llll}12 & 995 & -15 & 3\end{array} 298$ $\begin{array}{lllll}15 & 995 & -18 & 3 & 317\end{array}$ 18
$21 \quad 995-12 \quad 3 \quad 302$ DAY 8
00 985-15 0 0
$\begin{array}{lllll}03 & 985 & -17 & 1 & 302\end{array}$
$\begin{array}{lllll}06 & 985 & -16 & 2 & 27\end{array}$
$\begin{array}{llll}09 & 985 & -18 & 3\end{array} 353$
$\begin{array}{llll}12 & 986 & -19 & 0\end{array} 0$
$\begin{array}{lllll}15 & 986 & -20 & 3 & 360\end{array}$
$\begin{array}{llll}18 & 987 & -20 & 2360\end{array}$
$\begin{array}{llll}21 & 987-17 & 0 & 0\end{array}$ DAY 15
$00 \quad 985$-18 4225
$\begin{array}{llll}03 & 985 & -16 & 4 \\ 211\end{array}$
$\begin{array}{llll}06 & 985 & -19 & 6 \\ 198\end{array}$
$\begin{array}{lllll}09 & 985 & -20 & 5 & 183\end{array}$
$12 \quad 986$-20 5225
$\begin{array}{llll}15 & 986 & -19 & 655\end{array}$
$\begin{array}{llll}18 & 986 & -18 & 5 \\ 214\end{array}$
$21 \quad 986$-20 7193
DAY 22
00 982-20 5242
$\begin{array}{llll}03 & 981 & -19 & 4 \\ 285\end{array}$
06 980 - 19 8298
$09 \quad 979-21 \quad 7300$
$\begin{array}{lllll}12 & 980 & -27 & 3 & 228\end{array}$
$\begin{array}{lllll}15 & 981 & -23 & 5 & 270\end{array}$
$\begin{array}{lllll}18 & 981 & -22 & 10 & 263\end{array}$
21 982-22 11270

PP TT VV DD DAY 2
995-11 3319
$\begin{array}{llll}995 & -9 & 4300\end{array}$
995-10 5288
996-12 $3 \quad 315$
$\begin{array}{llll}996 & -17 & 3 & 322\end{array}$
$996-16 \quad 4300$
$996-14 \quad 4316$
DAY 9
986-16 1276
986-12 1331
985-12 2324
984-17 1316
985-20 2173
984-23 3174
985-23 1172
$986-151145$ DAY 16
987-20 4202
987-21 4181
987-22 4212
987-24 3259
988-25 3252
$\begin{array}{llll}988 & -27 & 3 & 269\end{array}$
$\begin{array}{llll}988 & -26 & 3 & 267\end{array}$
$989-21 \quad 2250$
DAY 23
982-21 14256
982-20 12256
982-20 11273
983-21 8280
983-26 5308
983-24 4300
$\begin{array}{llll}984 & -26 & 3 & 302\end{array}$
984-22 6313


PP TT VV DD PP TT VV DD DAY 4
$991 \quad-9 \quad 6 \quad 277$
$\begin{array}{llll}990 & -9 & 5 & 259\end{array}$
$\begin{array}{llll}989 & -8 & 7 & 262\end{array}$
$\begin{array}{llll}988 & -8 & 7 & 252\end{array}$
$\begin{array}{llll}987 & -8 & 7 & 276\end{array}$
$\begin{array}{llll}987 & -8 & 4 & 257\end{array}$
$\begin{array}{llll}986 & -9 & 7 & 297\end{array}$
$\begin{array}{llll}986 & -9 & 8 & 263\end{array}$ DAY 11
993-16 0
993-16 1273
993-17 0
993-17 0
993-17 0
993-18 3280
993-18 3278
$993-17 \quad 5287$ DAY 18
$995-26 \quad 4214$
$995-24 \quad 2210$
$\begin{array}{lll}994 & -26 & 284\end{array}$
$993-27 \quad 2300$
$993-28 \quad 1358$
$\begin{array}{llll}992 & -32 & 2 & 31\end{array}$
$\begin{array}{llll}992 & -31 & 2 & 351\end{array}$
$\begin{array}{llll}992 & -27 & 3 & 14\end{array}$ DAY 25
988-25 3292
988-21 2308
988-23 2319
$989-25 \quad 4315$
$990-26 \quad 5305$
$990-27 \quad 6300$
$992-26 \quad 4306$
$994-25 \quad 5300$


989-12 6327
$\begin{array}{llll}988 & -11 & 5 & 331\end{array}$
$\begin{array}{llll}988 & -13 & 6 & 13\end{array}$
$\begin{array}{llll}988 & -16 & 3 & 67\end{array}$
989-16 2124
990-14 0
$\begin{array}{lll}989 & -13 & 2172\end{array}$
989-12 2221 DAY 13
984-15 4274
982-14 2238
982-18 3157
982-20 3219
982-21 4212
981-27 2229
980-25 0 0 DAY 20
993 -20 11217
992-18 12202
991 -19 11219
990-19 11221
11226
$987-20 \quad 9232$
987-17 8238 DAY 27
997-21 7245
996-20 7240
995-20 6249
993-23 4240
$\begin{array}{llll}991 & -23 & 878\end{array}$
988-23 7277
$\begin{array}{llll}987 & -25 & 6 & 273\end{array}$

PP TT VV DD DAY 7 988-11 2232
987-12 2297
986-13 00
985-18 $\quad 2 \quad 28$
984-20 1353
$\begin{array}{llll}984 & -21 & 3 & 20\end{array}$
984-16 2322
DAY 14
979-20 132

980-24 3111
982-20 2122
$983-21 \quad 3193$

984-23 5235
985 -26 4215 DAY 21
986-17 10232
985-17 8239
985-18 4240

| -21 | 3 |
| :--- | :--- |

983 -27 4249

983-25 3233
DAY 28
983 -23 10260
980-23 9259
$\begin{array}{llll}979 & -23 & 7 & 264\end{array}$

975-25 8270
$\begin{array}{llll}974 & -28 & 7 & 281\end{array}$
974-27 5273

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-19.1$ Std dev $=5.5$ max $=-7.4$ at 120 Gmt on day 1 min $=-33.0$ at 1610 gmt on day 18
* theta (K) * MEAN $=254.91$
* PRESSURE (MB) * MEAN $=988.0$ STD DEV $=5.1$ MAX $=999.5$ AT 1150 GMT ON DAY 26 MIN $=973.6$ AT 2050 GMT ON DAY 28
* WINDS (M/S) * MEAN $=4.2 \mathrm{STD}$ DEV $=2.8$ RESULTANT $=3.1$ fROM 259 . CONSTANCY $=0.75 \mathrm{MAX}=14.5 \mathrm{FROM} 263$. AT 1820 GMT DAY 22
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 1.3 \% PRESSURE: $1.3 \%$ WINDS: $1.3 \%$
 WIND DIRECTION: $\quad$ N $\quad$ NNE $\quad$ NE $\quad$ ENE $\quad$ E $\quad$ ESE $\quad$ SE
PERCENT

MAR 97
HR PP TT VV DD DAY 1
$00 \quad 974-25 \quad 5 \quad 280$
$\begin{array}{llll}03 & 975 & -25 & 5300\end{array}$
$\begin{array}{lllll}06 & 975 & -26 & 4 & 291\end{array}$

| 09 | 975 | -29 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}12 & 976 & -31 & 3 & 322\end{array}$
$\begin{array}{lllll}15 & 976 & -33 & 2 & 300\end{array}$
$\begin{array}{lllll}18 & 978 & -31 & 4 & 288\end{array}$
$\begin{array}{llll}21 & 979 & -28 & 297\end{array}$ DAY 8
$\begin{array}{lllll}00 & 975 & -24 & 4 & 246\end{array}$
$\begin{array}{lllll}03 & 975 & -22 & 8 & 264\end{array}$

| 06 | 975 | -24 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}09 & 975 & -27 & 5 & 298\end{array}$
$\begin{array}{lllll}12 & 976 & -29 & 5 & 300\end{array}$
$\begin{array}{lllll}15 & 977 & -31 & 2 & 302\end{array}$
$\begin{array}{llll}18 & 978 & -29 & 4300\end{array}$
$\begin{array}{llll}21 & 979 & -27 & 7 \\ 269\end{array}$ DAY 15
$\begin{array}{lllll}00 & 982 & -26 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 984 & -35 & 3 & 200\end{array}$
$\begin{array}{lllll}06 & 985 & -32 & 2 & 235\end{array}$
$\begin{array}{lllll}09 & 985 & -33 & 2 & 222\end{array}$
$\begin{array}{lllll}12 & 985 & -32 & 1 & 300\end{array}$
$\begin{array}{lllll}15 & 983 & -33 & 4 & 322\end{array}$
$\begin{array}{lllll}18 & 981 & -31 & 5 & 317\end{array}$
$\begin{array}{llll}21 & 980 & -28 & 6 \\ 309\end{array}$ DAY 22

| 00 | 981 | -37 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 981 & -35 & 1 & 315\end{array}$
$\begin{array}{lllll}06 & 981 & -35 & 2 & 341\end{array}$
$\begin{array}{lllll}09 & 982 & -35 & 2 & 20\end{array}$
$\begin{array}{lllll}12 & 984 & -34 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 985 & -33 & 2 & 271\end{array}$
$\begin{array}{lllll}18 & 986 & -31 & 1 & 90\end{array}$
$\begin{array}{lllll}21 & 987 & -30 & 1 & 326\end{array}$
DAY 29

| 00 | 955 | -29 | 6 |
| :--- | :--- | :--- | :--- |


| 03 | 953 | -27 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}06 & 952 & -27 & 4 & 283\end{array}$
$09 \quad 951-24 \quad 6281$
$\begin{array}{llll}12 & 949 & -22 & 8 \\ 260\end{array}$
$\begin{array}{llll}15 & 946 & -19 & 9\end{array} 186$
$\begin{array}{lllll}18 & 950 & -22 & 14 & 167\end{array}$
$\begin{array}{lllll}21 & 958 & -29 & 10 & 157\end{array}$
$\begin{array}{rrrr}\text { PP } & \text { TT } & \text { VV } & \text { DD } \\ \text { DAY } & 2 & \\ 980 & -27 & 3 & 300 \\ 982 & -24 & 2 & 300 \\ 983 & -26 & 1 & 277 \\ 985 & -28 & 2 & 287 \\ 986 & -31 & 0 & 0 \\ 986 & -32 & 2 & 34 \\ 986 & -25 & 6 & 313 \\ 986 & -24 & 6 & 315\end{array}$ DAY 9
$\begin{array}{llll}981 & -27 & 4 & 288\end{array}$
$\begin{array}{lll}982 & -27 & 288\end{array}$
$983-26 \quad 7300$
$\begin{array}{llll}984 & -28 & 4 & 312\end{array}$
$\begin{array}{llll}985 & -31 & 5 & 300\end{array}$
985-27 9302
985-30 7316
$\begin{array}{llll}984 & -30 & 502\end{array}$ DAY 16
979-26 5273
978-23 8253
$977-24 \quad 9256$
$\begin{array}{lllll}976 & -24 & 11 & 257\end{array}$
$\begin{array}{llll}976 & -25 & 8 & 270\end{array}$
$\begin{array}{llll}976 & -25 & 8 & 287\end{array}$
$\begin{array}{llll}976 & -27 & 7 & 283\end{array}$
977-27 7300 DAY 23
987-27 0 0
$\begin{array}{llll}988 & -28 & 0 & 0\end{array}$
988-29 0 0
988-28 1302
988-27 2309
988-28 2312
$\begin{array}{llll}988 & -28 & 3 & 302\end{array}$
988-29 3300 DAY 30
963-29 6200
$\begin{array}{llll}963 & -27 & 4 & 210\end{array}$
962-25 4240
$\begin{array}{lll}962 & -21 & 514\end{array}$
$\begin{array}{llll}964 & -22 & 8 & 198\end{array}$
$\begin{array}{llll}965 & -22 & 326\end{array}$
$\begin{array}{lll}966-26 \quad 5 & 232\end{array}$
965-27 $5 \quad 256$

PP TT VV DD DAY 3
985-19 $8 \quad 300$
$\begin{array}{llll}984 & -18 & 11 & 287\end{array}$
$\begin{array}{llll}984 & -20 & 4 & 281\end{array}$
983-21 7302
$\begin{array}{llll}983 & -23 & 517\end{array}$
$\begin{array}{llll}982 & -25 & 5 & 300\end{array}$
$\begin{array}{llll}981 & -21 & 11 & 266\end{array}$
$\begin{array}{llll}981 & -22 & 387\end{array}$ DAY 10
$\begin{array}{llll}983 & -28 \quad 4300\end{array}$
$\begin{array}{lll}981 & -26 & 571\end{array}$
$\begin{array}{llll}980 & -28 & 2 & 232\end{array}$
$\begin{array}{llll}980 & -35 & 3 & 231\end{array}$
$\begin{array}{llll}979 & -36 & 2 & 200\end{array}$
$\begin{array}{llll}978 & -38 & 2 & 288\end{array}$
$976-36 \quad 2262$
975 -35 2300
DAY 17
978-26 $\quad 8 \quad 287$
$\begin{array}{llll}978 & -25 & 8 & 284\end{array}$
978-28 5303
978-28 6291
$978-30 \quad 7300$
$979-28 \quad 8302$
$\begin{array}{llll}980 & -29 & 7312\end{array}$
$\begin{array}{llll}981 & -30 & 5 & 291\end{array}$ DAY 24
988-27 3297
$\begin{array}{llll}989 & -24 & 6 & 308\end{array}$
$\begin{array}{llll}989 & -23 \quad 5300\end{array}$
989-24 4309
$990-27 \quad 7303$
$991-26 \quad 4300$
$992-276305$
$993-29 \quad 5313$ DAY 31
964-21 6259
963-20 7294
967-18 7212
$\begin{array}{llll}973 & -27 & 9 & 190\end{array}$
$\begin{array}{llll}975 & -25 & 11 & 217\end{array}$
$976-24 \quad 9215$
$\begin{array}{llll}975 & -24 & 517\end{array}$

PP TT VV DD DAY 4
980-22 5240
980-19 6259
978-19 8277
$\begin{array}{lll}976 & -22 & 4 \\ 281\end{array}$
976-27 0
976-25 4259
975 -22 10267
$\begin{array}{llll}974 & -21 & 9 & 267\end{array}$ DAY 11
974-33 1238
972-33 2186
$\begin{array}{llll}971 & -32 & 1350\end{array}$
970-37 00
$\begin{array}{llll}970 & -37 & 0 & 0\end{array}$
969-39 0
$969-36 \quad 2300$
968 -33 4292 DAY 18
$\begin{array}{lll}982 & -27 & 8 \\ 280\end{array}$
$982-2713263$
984-28 $15 \quad 260$
$983-2917253$
984-29 19263
$983-2815263$
983-29 12255
$985-33 \quad 4255$ DAY 25
994-25 8277
$995-25 \quad 6300$
$\begin{array}{lll}996 & -25 & 8 \\ 264\end{array}$
997-25 10256
995 -26 17263
$995-2715245$
$996-2812242$
$996-28 \quad 9250$

PP TT VV DD PP TT VV DD DAY 5
974-21 6271
974-20 4308
$\begin{array}{lll}974 & -28 & 4 \\ 212\end{array}$
$\begin{array}{llll}975 & -25 & 3 & 231\end{array}$
$\begin{array}{llll}975 & -27 & 3 & 266\end{array}$
$\begin{array}{llll}975 & -28 & 3 & 271\end{array}$
976-27 4278
976-25 6270 DAY 12
967-29 5291 $\begin{array}{llll}965 & -27 & 5 & 292\end{array}$ 963-25 8283 $\begin{array}{lll}961 & -25 & 978\end{array}$ 960-30 5303 959-29 5300 958-31 4300 958-29 4295 DAY 19
985-32 4270
$\begin{array}{lll}984 & -33 & 5 \\ 231\end{array}$
$\begin{array}{llll}985 & -32 & 5 & 262\end{array}$
$\begin{array}{llll}984 & -35 & 8 & 246\end{array}$
$\begin{array}{lll}985 & -36 & 5 \\ 235\end{array}$
$\begin{array}{llll}985 & -35 & 6 & 264\end{array}$
$\begin{array}{llll}985 & -36 & 3 & 238\end{array}$
$\begin{array}{lll}985 & -37 & 266\end{array}$ DAY 26
995-26 7233
995-27 4229
$\begin{array}{llll}994 & -30 & 3 & 266\end{array}$
$\begin{array}{llll}992 & -30 & 3 & 292\end{array}$
$990-28 \quad 6306$
987-28 6298
$\begin{array}{llll}986 & -34 & 6 & 285\end{array}$
985 -34 0

DAY 6
976-23 $8 \quad 273$
$976-22 \quad 7262$
$976-21 \quad 5300$
$976-24 \quad 6305$
$976-26 \quad 7300$
$\begin{array}{lll}976 & -27 \quad 7300\end{array}$
975-25 6300
975-21 5270 DAY 13
958-26 5300
958-22 8297
958-22 9291
959-23 11269
961-24 9 288
962-24 12255
$964-29 \quad 6305$
$\begin{array}{llll}965 & -28 & 8 & 303\end{array}$ DAY 20
$\begin{array}{lll}985 & -37 & 274\end{array}$
$\begin{array}{llll}984 & -33 & 5 & 247\end{array}$
982-35 4291
$\begin{array}{llll}982 & -34 & 4 & 271\end{array}$
$\begin{array}{llll}980 & -37 & 3 & 305\end{array}$
$980-39 \quad 4 \quad 262$
$\begin{array}{lll}980 & -39 & 2300\end{array}$
$979-34 \quad 6303$ DAY 27
$\begin{array}{llll}984 & -36 & 5 & 191\end{array}$
$\begin{array}{llll}983 & -36 & 0 & 0\end{array}$
$\begin{array}{llll}982 & -37 & 2 & 210\end{array}$
981-38 2204
$\begin{array}{llll}981 & -41 & 325\end{array}$
980-40 2183
979-40 2283
$\begin{array}{llll}978 & -38 & 3 & 243\end{array}$

PP TT VV DD DAY 7
975-17 6215
974-18 5232
$\begin{array}{lll}974 & -23 & 3\end{array} 247$
$\begin{array}{lll}974 & -27 & 2222\end{array}$

| 975 | -29 | 1 |
| :--- | :--- | :--- |

$\begin{array}{llll}975 & -28 & 0 & 0\end{array}$
$\begin{array}{llll}974 & -32 & 2 & 28\end{array}$
975-28 2243 DAY 14
966-26 6303
967-26 6298
969-27 5323
$\begin{array}{llll}971 & -27 & 813\end{array}$
973-29 6326
$\begin{array}{llll}975 & -29 & 541\end{array}$
978-24 5302
980-26 4264
DAY 21
$\begin{array}{llll}978 & -34 & 6 & 295\end{array}$
$\begin{array}{llll}977 & -32 & 6 & 281\end{array}$
$\begin{array}{llll}977 & -31 & 4274\end{array}$
$\begin{array}{llll}976 & -30 & 4 & 278\end{array}$
$\begin{array}{llll}976 & -32 & 2310\end{array}$

| 976 | -29 | 5 |
| :--- | :--- | :--- |

$\begin{array}{lll}978 & -34 & 2169\end{array}$
$\begin{array}{llll}980 & -39 & 2 & 191\end{array}$
DAY 28
976-35 4228
$\begin{array}{llll}975 & -33 & 4 & 292\end{array}$
$\begin{array}{llll}972 & -34 & 4 & 277\end{array}$
969-33 6291
$\begin{array}{llll}966 & -31 & 7 & 295\end{array}$
963-29 8277
959-30 7292
956-31 4290

* TEMPERATURE (C) * MEAN $=-28.3$ STD DEV $=5.0$ MAX $=-16.8$ AT 2350 GMT ON DAY 6 MIN $=-41.6$ AT 1220 GMT ON DAY 27
* THETA (K) * MEAN $=246.53$
* PRESSURE (MB) * MEAN $=977.2$ STD DEV $=9.7$ MAX $=996.7$ AT 900 GMT ON DAY 25 MIN $=945.6$ AT 1340 GMT ON DAY 29
* WINDS (M/S) * MEAN $=5.1 \mathrm{STD}$ DEV $=3.3$ RESULTANT $=4.2$ FROM 273 . CONSTANCY $=0.83$ MAX $=22.5$ FROM 252 . AT 940 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \% \quad$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND direction: n NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT $\begin{array}{llllllllllllllll}0 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 3 & 4 & 9 & 10 & 23 & 36 & 12 & 1\end{array}$

HR PP TT VV DD DAY 1
$00 \quad 970-29 \quad 8 \quad 276$ $\begin{array}{llll}03 & 967 & -31 & 7 \\ 300\end{array}$
$\begin{array}{lllll}06 & 965 & -31 & 10 & 300\end{array}$
$\begin{array}{llllll}09 & 964 & -29 & 10 & 300\end{array}$
$\begin{array}{lllll}12 & 965 & -26 & 13 & 278\end{array}$
$\begin{array}{lllll}15 & 966 & -24 & 11 & 269\end{array}$
$\begin{array}{lllll}18 & 969 & -26 & 7 & 240\end{array}$
$\begin{array}{llll}21 & 969-26 & 12259\end{array}$ DAY 8
$\begin{array}{lllll}00 & 973 & -24 & 7 & 180\end{array}$
$\begin{array}{lllll}03 & 974 & -25 & 4 & 167\end{array}$
$\begin{array}{lllll}06 & 976 & -26 & 3 & 238\end{array}$
$\begin{array}{lllll}09 & 978 & -26 & 3 & 187\end{array}$
$\begin{array}{lllll}12 & 981 & -29 & 4 & 202\end{array}$
$\begin{array}{llll}15 & 983 & -29 & 5 \\ 190\end{array}$
$\begin{array}{llll}18 & 986 & -28 & 4 \\ 210\end{array}$
$\begin{array}{llll}21 & 987 & -26 & 6 \\ 204\end{array}$ DAY 15
$\begin{array}{lllll}00 & 981 & -36 & 4 & 240\end{array}$
$\begin{array}{lllll}03 & 982 & -35 & 5 & 249\end{array}$
$\begin{array}{lllll}06 & 984 & -31 & 7 & 240\end{array}$
$\begin{array}{lllll}09 & 985 & -30 & 9 & 246\end{array}$
$\begin{array}{llll}12 & 985 & -30 & 9 \\ 253\end{array}$
$\begin{array}{lllll}15 & 986 & -30 & 12 & 245\end{array}$
$\begin{array}{lllll}18 & 987 & -30 & 10 & 240\end{array}$
$\begin{array}{llll}21 & 987 & -30 & 12 \quad 247\end{array}$ DAY 22
$\begin{array}{lllll}00 & 994 & -33 & 13 & 267\end{array}$
$\begin{array}{llllll}03 & 994 & -33 & 14 & 274\end{array}$
$06 \quad 994$ - $3313 \quad 271$
$\begin{array}{lllll}09 & 994 & -32 & 16 & 260\end{array}$
$\begin{array}{lllll}12 & 994 & -32 & 15 & 263\end{array}$
$15 \quad 994-3313 \quad 273$
$\begin{array}{llllll}18 & 991 & -33 & 16 & 269\end{array}$
$\begin{array}{lllll}21 & 992 & -34 & 15 & 262\end{array}$ DAY 29
$00 \quad 978$-35 4233
$\begin{array}{lllll}03 & 977 & -34 & 2 & 242\end{array}$
$\begin{array}{llll}06 & 978 & -34 & 247\end{array}$
$09 \quad 979-36 \quad 2280$
$\begin{array}{llll}12 & 979 & -35 & 2\end{array} 235$
$\begin{array}{llll}15 & 980 & -37 & 3\end{array} 269$
$\begin{array}{llll}18 & 979 & -38 & 5 \\ 298\end{array}$
$\begin{array}{llll}21 & 978 & -40 & 2 \\ 277\end{array}$


PP TT VV DD DAY 4
$\begin{array}{llll}987 & -38 & 4 & 246\end{array}$

$\begin{array}{llll}985 & -36 & 0 & 0\end{array}$ | 984 | -28 | 5 |
| :--- | :--- | :--- | | 984 | -23 | 7 |
| :--- | :--- | :--- | 983-22 10247 982-22 12242 983-23 11246 982-22 12249 DAY 11

$\begin{array}{lll}977 & -39 & 1290\end{array}$ $\begin{array}{lllll}976 & -39 & 3 & 305\end{array}$ $\begin{array}{llll}975 & -37 & 4 & 288\end{array}$ $\begin{array}{llll}975 & -35 & 5 & 298\end{array}$ 974-35 6290 $\begin{array}{llll}974 & -35 & 6 & 294\end{array}$ $\begin{array}{llll}973 & -33 & 7 & 285\end{array}$ $973-35 \quad 5300$ DAY 18
1001-33 6300 1003-34 4300 1004-34 6300 $\begin{array}{lll}1005-34 \quad 4 & 276\end{array}$ 1006-35 4300 1007-36 4300 1008-36 3297 1009-36 3277 DAY 25

$\begin{array}{llll}983 & -37 & 6 & 269\end{array}$ $\begin{array}{llll}985 & -48 & 9 & 215\end{array}$ $\begin{array}{llll}988 & -43 & 8 & 191\end{array}$ $\begin{array}{llll}988 & -43 & 5 & 228\end{array}$ $\begin{array}{llll}985 & -41 & 5 & 278\end{array}$ | 981 | -35 | 7 |
| :--- | :--- | :--- | $\begin{array}{llll}977 & -33 & 6 & 295\end{array}$ 974-32 6300

PP TT WV DD PP TT VV DD DAY 5
980-23 7243
978-22 9240
$\begin{array}{llll}975 & -21 & 13 & 246\end{array}$
971-20 11253
966-19 17271
963-17 $14 \quad 255$
965-20 $21 \quad 170$
973 -29 16184 DAY 12
973-34 5295
$\begin{array}{llll}973 & -34 & 4 & 300\end{array}$
$\begin{array}{llll}974 & -35 & 3 & 300\end{array}$
$\begin{array}{llll}974 & -35 & 4 & 297\end{array}$
$\begin{array}{llll}975 & -35 & 4 & 263\end{array}$
976-35 4256
$\begin{array}{llll}977 & -36 & 519\end{array}$
978 -36 4239 DAY 19
1009-33 5295
1009-32 6300
1009-32 5302
1007-32 7300
1007-30 5302
1006-31 4290
1005-25 12291
1004-24 16255 DAY 26
$\begin{array}{llll}971 & -30 & 10 & 281\end{array}$
$\begin{array}{llll}969 & -32 & 7300\end{array}$
969-33 7315
$\begin{array}{llll}970 & -31 & 7300\end{array}$
973-29 7212
975-36 12219
977-39 14202
980-40 $10 \quad 202$


DAY 13
978-33 5249
$\begin{array}{llll}979 & -32 & 7233\end{array}$
$\begin{array}{llll}979 & -34 & 7 & 247\end{array}$
978-31 11252
$\begin{array}{llll}979 & -32 & 9 & 236\end{array}$
979-32 9247
978-31 10259
977-32 11284

## DAY 20

1004-25 13269
$\begin{array}{llll}1002 & -2614 & 257\end{array}$
1002-25 13257
1001 -26 10257
1000-26 12257
$999-26 \quad 14259$
998-26 $16 \quad 253$
997-26 14263
DAY 27
979-42 3238
$\begin{array}{llll}976 & -36 & 6 & 278\end{array}$
$974-36 \quad 4298$

| 972 | -33 | 9 |
| :--- | :--- | :--- |

$\begin{array}{llll}972 & -33 & 9 & 274\end{array}$
972-32 12249
$\begin{array}{llll}973 & -32 & 8 & 283\end{array}$
974-31 11285

PP TT VV DD DAY 7
971-31 3347
967-22 3285
965-18 3243
964-15 4224
963-14 5208
964-19 10172
967-20 7172
$971-24 \quad 7191$ DAY 14
$\begin{array}{llll}977 & -31 & 8 & 287\end{array}$
$\begin{array}{llll}976 & -31 & 9 & 266\end{array}$
$\begin{array}{llll}976 & -32 & 5 & 288\end{array}$
$\begin{array}{llll}975 & -31 & 9 & 273\end{array}$
$\begin{array}{llll}976 & -32 & 6 & 266\end{array}$
$\begin{array}{llll}977 & -36 & 6 & 228\end{array}$
$\begin{array}{llll}978 & -31 & 7 & 263\end{array}$
$979-31 \quad 4259$
DAY 21
998-27 10259
997-27 13259
997-29 13256
997 -30 12249
$997-3115 \quad 256$
995 -32 17257
$995-31 \quad 16246$
995 -32 18257

## DAY 28

$\begin{array}{lll}976 & -28 & 9 \\ 291\end{array}$
977-27-8 281
980-26 3253
$\begin{array}{lll}982 & -26 & 5 \\ 247\end{array}$
984-28 $\quad 5 \quad 180$
$\begin{array}{llll}984 & -32 & 6 & 184\end{array}$
$\begin{array}{llll}982 & -32 & 218\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-31.3$ Std dev $=5.9$ max $=-11.9$ at 1700 gmt on day 5 min $=-49.6$ at 410 GMt on day 25
* theta (K) * MEAN $=243.12$
* PRESSURE (MB) * MEAN $=982.8$ STD DEV $=10.5$ MAX $=1009.4$ AT 2300 GMT ON DAY 18 MIN $=960.8$ at 1620 GMt ON DAY 5
* WINDS (M/S) * MEAN $=7.4$ STD DEV $=4.0$ RESULTANT $=6.2$ fROM 261. CONSTANCY $=0.85$ maX $=23.2$ fROM 180 . AT 1740 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND SPEED }(\mathrm{M} / \mathrm{S}): ~ & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 \\ \text { PERCENT: } & 4 & 15 & 26 & 17 & 13 & 8 & 10 & 3 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
percent

$$
\begin{array}{rrrrllllllllllll}
0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 8 & 5 & 8 & 23 & 25 & 26 & 5 & 0
\end{array}
$$

$\begin{array}{llrr}\text { HR } & \text { PP TT VV } & \text { DD } \\ \text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 982 & -41 & 2 & 290\end{array}$
$\begin{array}{llll}03 & 982 & -39 & 264\end{array}$
$\begin{array}{lllll}06 & 983 & -42 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 982 & -38 & 3 & 267\end{array}$
$\begin{array}{llllll}12 & 982 & -36 & 4 & 226\end{array}$
$\begin{array}{lllll}15 & 984 & -41 & 9 & 195\end{array}$
$\begin{array}{lllll}18 & 983 & -40 & 9 & 211\end{array}$
$\begin{array}{lllll}21 & 980 & -35 & 8 & 243\end{array}$ DAY 8
$00 \quad 980-30 \quad 8 \quad 270$
$\begin{array}{lllll}03 & 981 & -32 & 7 & 297\end{array}$
$\begin{array}{llll}06 & 980 & -34 & 7 \\ 300\end{array}$
$09 \quad 979-35 \quad 6305$
$\begin{array}{llll}12 & 978 & -35 & 5 \\ 313\end{array}$
$\begin{array}{lllll}15 & 975 & -34 & 9 & 298\end{array}$
$\begin{array}{lllll}18 & 974 & -34 & 8 & 297\end{array}$
$\begin{array}{llll}21 & 972 & -30 & 8 \\ 295\end{array}$ DAY 15
$\begin{array}{lllll}00 & 987 & -45 & 9 & 191\end{array}$
$\begin{array}{lllll}03 & 988 & -47 & 4 & 217\end{array}$
$\begin{array}{lllll}06 & 987 & -45 & 6 & 232\end{array}$
$09 \quad 985-42 \quad 7222$
$\begin{array}{lllll}12 & 983 & -34 & 9 & 217\end{array}$
$\begin{array}{lllll}15 & 978 & -29 & 12 & 253\end{array}$
$\begin{array}{llllll}18 & 974 & -27 & 11 & 243\end{array}$
$\begin{array}{lllll}21 & 970 & -25 & 12 & 239\end{array}$ DAY 22
00 976-35 9222
$\begin{array}{lllll}03 & 975 & -36 & 4 & 240\end{array}$
$\begin{array}{lllll}06 & 975 & -37 & 5 & 194\end{array}$
$\begin{array}{lllll}09 & 975 & -38 & 4 & 238\end{array}$
$\begin{array}{lllll}12 & 975 & -40 & 5 & 198\end{array}$
$\begin{array}{lllll}15 & 974 & -41 & 4 & 253\end{array}$
$\begin{array}{lllll}18 & 973 & -40 & 4 & 260\end{array}$
$\begin{array}{lllll}21 & 970 & -35 & 9 & 264\end{array}$ DAY 29
$00 \quad 961$-23 11260
$\begin{array}{lllll}03 & 959 & -23 & 16 & 262\end{array}$
06 955-22 18269
$\begin{array}{lllll}09 & 954 & -22 & 17 & 284\end{array}$
$\begin{array}{lllll}12 & 953 & -22 & 13 & 281\end{array}$
$\begin{array}{lllll}15 & 955 & -21 & 12 & 264\end{array}$
$\begin{array}{lllll}18 & 955 & -19 & 12 & 271\end{array}$
$21 \quad 957-24 \quad 13 \quad 274$

PP TT VV DD PP TT VV DD DAY 2
976-32 8228
$\begin{array}{llll}971 & -31 & 7 & 253\end{array}$
967-29 8226
$\begin{array}{llll}964-28 & 9 & 247\end{array}$
960-26 $12 \quad 263$
958-26 14240
959-26 12239
959-24 14240
DAY 9
$\begin{array}{lll}971 & -33 & 7295\end{array}$
$\begin{array}{llll}971 & -33 & 7 & 283\end{array}$
$\begin{array}{llll}970 & -32 & 7 & 281\end{array}$
$\begin{array}{llll}969 & -35 & 5 & 284\end{array}$
$\begin{array}{llll}969 & -37 & 7 & 238\end{array}$
$969-396219$
$969-41 \quad 4233$
$969-44 \quad 2221$ DAY 16
965-22 11240
962-15 20186
959-15 14188
957-13 20176
956-12 15186
952-13 14174
952-14 14169
957-17 12136
DAY 23
967-34 15278
$\begin{array}{llll}966 & -35 & 9 & 281\end{array}$
964-35 6280
963-36 5292
$962-307267$
963-30 9 284
$966-27 \quad 4242$
967-26 12225 DAY 30
959-24 12246
963-27 10177
967-27 5226
968-27 8228
969-27 8256
$\begin{array}{llll}971 & -25 \quad 6 & 194\end{array}$
$972-26 \quad 6 \quad 215$
$973-25 \quad 6212$

$$
\text { DAY } 3
$$

$\begin{array}{llll}961 & -20 & 6 & 183\end{array}$
$\begin{array}{llll}964 & -23 & 11 & 190\end{array}$
966-23 8204
966-22 9221
965-23 7226
963-22 10224
961-24 11243
958 -24 12252 DAY 10
969-47 2214
$\begin{array}{llll}970 & -48 & 1 & 242\end{array}$
$\begin{array}{lll}971 & -47 & 250\end{array}$
$\begin{array}{llll}971 & -42 & 3 & 278\end{array}$
$972-40 \quad 4276$
972-39 5276
$\begin{array}{llll}972 & -39 & 6 & 291\end{array}$
$973-396292$ DAY 17
963-20 12172
967-19 16176
$971-1915172$
973-19 17173
$975-1818169$
$979-1911145$
983-20 5165
982-19 6231 DAY 24
968-24 13211 972 -28 11197 $974-30 \quad 7191$ $\begin{array}{llll}976 & -35 & 6 & 236\end{array}$ 974-29 5245 973-30 6247 972 -26 7246 973 -26 5257 DAY 31
974-27 6208 $975-30 \quad 9 \quad 188$ 976 -29 5211 $978-33 \quad 6 \quad 193$ $979-2810222$ $\begin{array}{lll}980 & -29 & 7 \\ 232\end{array}$ $\begin{array}{llll}981 & -31 & 10 & 225\end{array}$

DAY 4
957-24 15253
956-22 13243
954-22 12246
955-20 12242
951-21 12256
956-20 17245
958-17 7194
$961-19 \quad 9190$ DAY 11
$\begin{array}{llll}972 & -38 & 6 & 287\end{array}$
$\begin{array}{llll}972 & -38 & 6 & 290\end{array}$
$\begin{array}{llll}972 & -39 & 3 & 312\end{array}$
$\begin{array}{llll}972 & -38 & 6 & 297\end{array}$
$973-396295$
972-38 8284
$\begin{array}{llll}973 & -38 & 5 & 276\end{array}$
$974-43 \quad 3269$ DAY 18
980-16 6231
975-18 7231
$969-18 \quad 11276$
966-17 13243
$\begin{array}{llll}964-18 & 5 & 256\end{array}$
963-18 12247
962-17 12247
961-17 13255 DAY 25
973 -25 9231
974-26 10246
$\begin{array}{llll}977 & -27 & 7 & 202\end{array}$
$\begin{array}{llll}978 & -34 & 3 & 226\end{array}$
$\begin{array}{llll}978 & -34 & 1 & 165\end{array}$
976-33 3246
$974-315250$
972-29 9 284

PP TT VV DD DAY 5
964-22 4181
964-23 6235
963 -23 9253
963-24 10249
964-24 8290
$\begin{array}{lll}966 & -23 & 7 \\ 235\end{array}$
969-26 0
970-29 2222 DAY 12
975-45 4249
975-44 3252
976-45 4228
977-47 1262
979-49 3217
980-48 3231
981-48 5240
982-43 6219 DAY 19
961-15 9233
962-17 8246
$\begin{array}{llll}963 & -14 & 7 & 204\end{array}$
$\begin{array}{llll}965 & -16 & 6 & 212\end{array}$
$968-17 \quad 7205$
$970-18 \quad 9190$
$\begin{array}{llll}972 & -17 & 7 & 217\end{array}$
974-18 4214
DAY 26
$970-2713266$
$970-2815 \quad 267$
$971-2715 \quad 267$
972 -28 $17 \begin{array}{lll} & 263\end{array}$
$974-2816269$
$977-2815266$
982-28 9264
$984-2711245$

PP TT VV DD DAY 6
971-28 3204
972-26 4193
972-26 3233
$\begin{array}{lll}972 & -28 & 4 \\ 252\end{array}$
$\begin{array}{llll}972 & -31 & 4 & 280\end{array}$
$\begin{array}{lll}972 & -32 \quad 4 & 284\end{array}$
$\begin{array}{llll}971 & -30 & 7 & 240\end{array}$
$\begin{array}{llll}970 & -30 & 7 & 264\end{array}$ DAY 13
983-44 5229
983-45 5225
983-45 5232
983-48 4247
984-46 2280
984-48 2271
984-47 2249
984-42 5245
DAY 20
975-24 3264
$975-254240$
$975-24 \quad 5274$
$976-28 \quad 5246$
$979-24 \quad 5 \quad 243$
$\begin{array}{lll}981 & -24 & 1 \\ 240\end{array}$
982-26 0 0
$984-23 \quad 5222$ DAY 27
985-26 12252
987-27 14247
988 -27 13259
987-26 17273
$987-2619266$
$986-2713262$
$986-2917262$
$984-2820266$

PP TT VV DD DAY 7
970 -33 3315
$969-29 \quad 9284$
$\begin{array}{llll}970 & -34 & 5 & 300\end{array}$
$\begin{array}{llll}971 & -31 & 9 & 281\end{array}$
$\begin{array}{llll}974 & -34 & 4 & 294\end{array}$
$\begin{array}{llll}975 & -32 & 5 & 276\end{array}$
$\begin{array}{llll}978 & -35 & 4 & 252\end{array}$
$979-32 \quad 7257$ DAY 14
983-36 10259
$983-36 \quad 9252$
$\begin{array}{llll}983 & -35 & 8 & 277\end{array}$
$\begin{array}{llll}984 & -36 & 9 & 287\end{array}$
$984-379292$
$\begin{array}{llll}984 & -37 & 6 & 288\end{array}$
$\begin{array}{llll}984 & -36 & 6 & 278\end{array}$
985 -39 7188 DAY 21
985-23 2267
985-26 5253
$\begin{array}{lll}984 & -28 & 5 \\ 242\end{array}$
$\begin{array}{lll}984 & -30 & 5 \\ 285\end{array}$
983-32 4292
$\begin{array}{lll}981 & -31 & 5 \\ 300\end{array}$
$\begin{array}{llll}978 & -33 & 4 & 270\end{array}$
$\begin{array}{llll}977 & -36 & 3 & 291\end{array}$ DAY 28
982-28 16276
$979-2713263$
975-27 18274
970-24 $19 \begin{array}{ll} & 267\end{array}$
965-23 22267
962-26 16263
962-26 9 249
$\begin{array}{lll}962 & -25 & 9\end{array}$

* temperature ( $C$ ) * mean $=-29.6$ Std dev $=8.5$ MAX $=-10.9$ at 1250 GMT ON DAY 16 MIN $=-49.6$ AT 1720 GMt ON dAY 12
* theta (K) * MEAN $=245.54$
* PRESSURE (MB) * MEAN $=972.2$ STD DEV $=8.8$ MAX $=988.6$ AT 1100 GMT ON DAY 27 MIN $=951.0$ AT 940 GMT ON DAY 29
* WINDS (M/S) * MEAN $=8.1 \mathrm{STD}$ DEV $=4.5$ RESULTANT $=6.6$ FROM 244. CONSTANCY $=0.82$ MAX $=27.0$ FROM 264. AT 1220 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:
$\begin{array}{llllllllll}5 & 11 & 23 & 19 & 13 & 10 & 7 & 5 & 4 & 2\end{array}$ WIND direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 9 & 8 & 18 & 27 & 23 & 13 & 2 & 0\end{array}$

JUN 97
HR PP TT VV
$\begin{array}{lllll}00 & 983 & -29 & 9 & 247\end{array}$
$\begin{array}{lllll}03 & 983 & -29 & 10 & 245\end{array}$
$\begin{array}{lllll}06 & 984 & -29 & 12 & 242\end{array}$
$\begin{array}{lllll}09 & 985 & -28 & 9 & 243\end{array}$
$\begin{array}{llll}12 & 986 & -28 & 7 \\ 247\end{array}$
$\begin{array}{llll}15 & 985 & -29 & 7242\end{array}$

| 18 | 985 | -29 | 7 |
| :--- | :--- | :--- | :--- |

$21 \quad 986$-31 6246 DAY 8
$\begin{array}{lllll}00 & 971 & -16 & 9 & 173\end{array}$
$\begin{array}{lllll}03 & 974 & -21 & 8 & 240\end{array}$
$\begin{array}{llll}06 & 974 & -23 & 13 \\ 252\end{array}$
$\begin{array}{lllll}09 & 974 & -24 & 12 & 245\end{array}$
$\begin{array}{lllll}12 & 976 & -24 & 12 & 245\end{array}$
$\begin{array}{llllll}15 & 976 & -25 & 13 & 247\end{array}$
$\begin{array}{lllll}18 & 976 & -24 & 11 & 243\end{array}$
$\begin{array}{llll}21 & 975 & -21 & 12233\end{array}$ DAY 15
$\begin{array}{llll}00 & 975 & -32 & 11 \\ 277\end{array}$
$\begin{array}{llllll}03 & 977 & -32 & 15 & 269\end{array}$
$\begin{array}{llll}06 & 980 & -32 & 16 \\ 274\end{array}$
$\begin{array}{lllll}09 & 981 & -31 & 17 & 278\end{array}$
$\begin{array}{lllll}12 & 985 & -31 & 16 & 259\end{array}$
$\begin{array}{llllll}15 & 987 & -32 & 17 & 253\end{array}$
$\begin{array}{llllll}18 & 988 & -32 & 17 & 257\end{array}$
21 988-32 20253 DAY 22
001005 -26 7239
031006 -21 9238
06 1006-19 10253
09 1006-20 7166
$121008-24 \quad 6193$
15 1007-24 3263
18 1004-21 6264
21 1001-18 7266 DAY 29
00 1003-46
03 1002-49
06 1002-50
09 1002-47
12 1001-50
$\begin{array}{lll}15 & 999 & -47\end{array}$
$\begin{array}{lllll}18 & 998 & -44 & 6 & 291\end{array}$
$21 \quad 996-43 \quad 4300$


PP TT WV D

$$
\text { DAY } 4
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994-31 13256
993-32 12263 $991-3213257$ $990-335266$ $989-3310260$ $985-3113262$ $984-3115267$ $984-319273$ DAY 11
976-26 6212 $975-26 \quad 4255$ $974-24 \quad 8250$ $973-238245$ $973-2311236$ 972-22 10233 971 -23 13235 $971-2413243$ DAY 18
974-22 8197 $979-279166$ 983-24-8 204 $986-24-9172$ $988-219194$ 989-20 13198 $989-2012191$ 990-20 18193 day 25
$\begin{array}{llll}998 & -36 & 5 & 194\end{array}$ 997-33 6201
$\begin{array}{llll}997 & -30 \quad 6215\end{array}$
$\begin{array}{llll}996 & -30 & 3 & 231\end{array}$
997-31 6228
997-30 4236
$\begin{array}{llll}999 & -31 & 4238\end{array}$
$1000-36 \quad 5238$


PP TT VV DD DAY 7
977-30 8294 $973-2610300$ 969 -20 10295 966-21 14287 963 -20 16285 962-23 18264 $966-21 \quad 15 \quad 255$ 966-21 14250 DAY 14
966-20 11240 $967-2213246$ $967-2314253$ 967-24 13253 968 -26 13247 $969-2720266$ $970-2914266$ 973 -30 12276 DAY 21 999-24 4253 998-22 8228 997-23 8225 998 -26 7231 998 -24 11245 1000-24 11247 1002-26 7208 1003 -27 6277 DAY 28

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-29.5$ STD DEV $=7.6$ MAX $=-14.1$ AT 2300 GMT ON DAY 7 MIN $=-50.5$ AT 400 GMT ON DAY 29
* THETA (K) * MEAN $=244.68$
* PRESSURE (MB) * MEAN $=985.8$ STD DEV $=13.0$ MAX $=1007.7$ AT 1130 GMT ON DAY 22 MIN $=955.0$ AT 1700 GMT ON DAY 9 * WINDS (M/S) * MEAN $=9.4$ STD DEV $=4.0$ RESULTANT $=8.4$ FROM 252. CONSTANCY $=0.89$ MAX $=22.2$ FROM 257. AT 1600 GMT DAY 14 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ HINDS: $10.0 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 9 & 12 & 38 & 25 & 13 & 0 & 0\end{array}$

PP TT VV DD DAY 4
$\begin{array}{lll}966 & -2617 & 249\end{array}$
$970-2512236$
$977-22 \quad 9205$
982-25 6231
984-25 6242
986-23 6229

| 988 | -25 | 7 |
| :--- | :--- | :--- |

989-23 8214 DAY 11
954-35 9276 $951-3512269$ $950-3715273$ 950-37 15269 951-38 15270 954-39 18262 959-39 14263 962-39 19266 DAY 18 $\begin{array}{lll}979 & -36 & 7287\end{array}$ $\begin{array}{llll}977 & -37 & 5 & 287\end{array}$ $\begin{array}{llll}977 & -38 & 5 & 303\end{array}$ $\begin{array}{llll}977 & -37 & 4 & 277\end{array}$ $\begin{array}{llll}977 & -36 & 6 & 290\end{array}$ $\begin{array}{llll}977 & -33 & 12 & 267\end{array}$ $\begin{array}{llll}977 & -34 & 8 & 287\end{array}$ $\begin{array}{llll}978 & -35 & 7 & 283\end{array}$ DAY 25
988-42 4232 987-42 4222 984-40 3245 $982-414228$ $\begin{array}{llll}979 & -37 & 5 & 291\end{array}$ $\begin{array}{llll}975 & -34 & 8 & 278\end{array}$ 973 -31 10273 $971-37 \quad 6300$

PP TT WV DD DAY 5
989-24 $8 \quad 232$
987-24 11245
$\begin{array}{llll}986 & -26 & 15 & 242\end{array}$
$\begin{array}{llll}984 & -27 & 12 & 240\end{array}$
$\begin{array}{llll}983 & -28 & 13 & 246\end{array}$
$\begin{array}{llll}980 & -30 & 11 & 245\end{array}$
978-27 8278
976-29 6288 DAY 12
968-39 16262
976 - $3912 \quad 259$
979-39 11259
983-39 $10 \quad 256$
985-40 $5 \quad 252$
987-43 5250
$\begin{array}{llll}988 & -37 & 6 & 231\end{array}$
$\begin{array}{llll}988 & -35 & 8 & 226\end{array}$ DAY 19
$\begin{array}{llll}979 & -36 & 6 & 288\end{array}$
$\begin{array}{llll}980 & -39 & 3 & 288\end{array}$
981-42 0
$\begin{array}{lll}982 & -43 & 1\end{array} 211$
$\begin{array}{llll}983 & -44 & 1246\end{array}$
983 - 43 0 0
983-45 0
$983-40 \quad 4302$ DAY 26
970-33 7300
970-35 6300
$969-2915264$
$971-3017264$
$974-3216252$
$979-3510236$
980-35 12250
$\begin{array}{llll}982 & -35 & 14 & 245\end{array}$

| P | TT | V | DD | PP | TT | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 6 |  |  | DAY | 7 |
| 974 | -29 | 6 | 276 | 973 | -27 | 9243 |
| 975 | -32 | 5 | 229 | 972 | -25 | 9247 |
| 978 | -34 | 6 | 217 | 970 | -25 | 10246 |
| 980 | -32 | 6 | 236 | 970 | -24 | 12243 |
| 981 | -33 | 6 | 198 | 969 | -25 | 14245 |
| 980 | -26 | 10 | 233 | 967 | -24 | 13239 |
| 978 | -26 | 10 | 245 | 966 | -26 | 13256 |
| 976 | -26 | 10 | 246 | 963 | -26 | 15257 |
|  | DAY | 13 |  |  | DAY | 14 |
| 989 | -31 | 7 | 231 | 976 | -31 | 14245 |
| 989 | -33 | 5 | 225 | 972 | -31 | 17249 |
| 988 | -32 | 5 | 232 | 969 | -31 | 17256 |
| 988 | -30 | 7 | 232 | 967 | -30 | 16262 |
| 986 | -33 | 6 | 294 | 966 | -30 | 15277 |
| 984 | -31 | 6 | 273 | 965 | -34 | 10300 |
| 982 | -34 | 4 | 215 | 964 | -33 | 9298 |
| 979 | -33 | 5 | 264 | 964 | -32 | 10294 |
|  | DAY | 20 |  |  | DAY | 21 |
| 982 | -33 | 7 | 267 | 984 | -34 | 10283 |
| 982 | -32 | 10 | 255 | 984 | -37 | 5308 |
| 983 | -37 | 6 | 238 | 984 | -38 | 8291 |
| 984 | -38 | 6 | 231 | 984 | -40 | 7312 |
| 985 | -39 | 2 | 233 | 983 | -42 | 4312 |
| 985 | -38 | 5 | 290 | 984 | -42 | 4312 |
| 985 | -39 | 5 | 256 | 983 | -38 | 8295 |
| 984 | -34 | 12 | 273 | 983 | -41 | 5300 |
|  | DAY | 27 |  |  | DAY | 28 |
| 982 | -36 | 16 | 245 | 982 | -40 | 16267 |
| 983 | -37 | 16 | 245 | 982 | -40 | 16257 |
| 983 | -38 | 14 | 255 | 983 | -41 | 12240 |
| 984 | -39 |  | 277 | 984 | -41 | 17250 |
| 983 | -39 | 16 | 273 | 983 | -41 | 15250 |
| 982 | -38 | 14 | 269 | 983 | -41 | 16259 |
| 981 | -38 | 19 | 263 | 983 | -40 | 19259 |
| 981 | -39 | 15 | 270 | 981 | -41 | 19257 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-35.2$ Std dev $=7.2$ max $=-21.2$ at 620 GMT ON dAy 4 min $=-58.2$ at 1450 gmt on day 31
* THETA (K) * MEAN $=239.53$
* PRESSURE (MB) * MEAN $=977.5$ STD DEV $=8.0$ MAX $=991.1$ at 1840 GMT ON DAY 24 MIN $=948.9$ at 610 GMT ON DAY 11
* WINDS (M/S) * MEAN $=8.5$ STD DEV $=4.6$ RESULTANT $=7.8$ FROM 257. CONSTANCY $=0.92$ MAX $=27.2$ FROM 264. AT 1100 GMT DAY 29
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 5 & 16 & 33 & 24 & 19 & 2 & 0\end{array}$

AUG 97
HR PP TT WV DD DAY 1
$\begin{array}{llll}00 & 988 & -50 & 4 \\ 284\end{array}$
$\begin{array}{llll}03 & 988 & -46 & 6 \\ 274\end{array}$
$\begin{array}{llll}06 & 987 & -44 & 8 \\ 259\end{array}$
$\begin{array}{lllll}09 & 986 & -43 & 10 & 240\end{array}$
$\begin{array}{llll}12 & 983 & -42 & 12 \\ 267\end{array}$
$\begin{array}{llll}15 & 980 & -43 & 9 \\ 300\end{array}$
$\begin{array}{lllll}18 & 974 & -44 & 10 & 300\end{array}$
$\begin{array}{llll}21 & 969 & -42 & 9 \\ 300\end{array}$ DAY 8
$\begin{array}{lllll}00 & 971 & -42 & 6 & 228\end{array}$
$\begin{array}{llll}03 & 971 & -36 & 7 \\ 246\end{array}$
$\begin{array}{llll}06 & 970 & -38 & 5 \\ 259\end{array}$
$09 \quad 967-38 \quad 8300$
$\begin{array}{lllll}12 & 963 & -37 & 8 & 300\end{array}$
$\begin{array}{lllll}15 & 959 & -40 & 7 & 288\end{array}$
$\begin{array}{lllll}18 & 955 & -36 & 9 & 288\end{array}$
$\begin{array}{llll}21 & 951 & -32 & 12 \\ 284\end{array}$ DAY 15
$\begin{array}{lllll}00 & 985 & -20 & 12 & 176\end{array}$
$\begin{array}{llllll}03 & 984 & -21 & 10 & 176\end{array}$
$\begin{array}{lllll}06 & 984 & -25 & 8 & 184\end{array}$
$\begin{array}{lllll}09 & 983 & -28 & 8 & 165\end{array}$
$\begin{array}{llll}12 & 982 & -29 & 3\end{array} 193$
$\begin{array}{llll}15 & 979 & -27 & 4 \\ 243\end{array}$
$\begin{array}{lllll}18 & 976 & -23 & 8 & 226\end{array}$
$\begin{array}{llll}21 & 973 & -25 & 8 \\ 250\end{array}$ DAY 22
$\begin{array}{lllll}00 & 982 & -35 & 6 & 177\end{array}$
$\begin{array}{lllll}03 & 983 & -39 & 3 & 225\end{array}$
$\begin{array}{lllll}06 & 985 & -38 & 4 & 222\end{array}$
$\begin{array}{llll}09 & 986 & -41 & 4 \\ 245\end{array}$
$\begin{array}{llll}12 & 986 & -40 & 4 \\ 222\end{array}$
$\begin{array}{lllll}15 & 987 & -40 & 5 & 194\end{array}$
$\begin{array}{lllll}18 & 988 & -38 & 4 & 205\end{array}$
$\begin{array}{llll}21 & 989 & -39 & 6191\end{array}$ DAY 29

| 00 | 992 | -48 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 992 & -48 & 7 & 217\end{array}$
$\begin{array}{lllll}06 & 993 & -48 & 7 & 214\end{array}$
$\begin{array}{llll}09 & 993 & -50 & 4 \\ 211\end{array}$
$\begin{array}{lllll}12 & 992 & -50 & 4 & 204\end{array}$
$\begin{array}{lllll}15 & 991 & -49 & 3 & 238\end{array}$
$\begin{array}{llll}18 & 989 & -45 & 5 \\ 226\end{array}$
$\begin{array}{llll}21 & 989 & -44 & 5 \\ 247\end{array}$

PP TT VV DD PP TT WV DD DAY 2
965 -44 9300
$\begin{array}{llll}962 & -43 & 6 & 306\end{array}$
962-43 7300
962-39 11295
963-38 $13 \quad 280$
962-35 11264
$965-50 \quad 13210$
$971-5111208$ DAY 9
948-25 16247
949-17 12210
$953-2111176$
960-32 9162
$\begin{array}{llll}966 & -35 & 6 & 210\end{array}$
969 -36 10194
$974-3611180$
978 -37 10194 DAY 16
970-26 7250
967-26 11250
965-27 $11 \quad 257$
$964 \quad-28 \quad 9 \quad 239$
$\begin{array}{llll}964 & -28 & 6 & 232\end{array}$
$\begin{array}{llll}964 & -27 & 8 & 259\end{array}$
964-25 $13 \quad 242$
967-26 15183 DAY 23
989-39 5218
988-40 5218
987-44 2215
$\begin{array}{llll}986 & -45 & 3 & 243\end{array}$
984-40 $\quad 3 \quad 278$
983 -37 1243
$\begin{array}{llll}983 & -34 & 4 & 267\end{array}$
982-32 10256 DAY 30
988-43 6245
$\begin{array}{llll}987 & -42 & 7 & 262\end{array}$
985-43 5256
$\begin{array}{llll}984 & -41 & 7 & 256\end{array}$
$\begin{array}{lll}984 & -40 & 9 \\ 246\end{array}$
$\begin{array}{llll}984 & -38 & 10 & 242\end{array}$
983-38 13239
984-37 11250 DAY 3
$\begin{array}{lll}973 & -52 & 501\end{array}$
$\begin{array}{llll}973 & -52 & 3 & 260\end{array}$
$970-48 \quad 2291$
$\begin{array}{llll}968 & -43 & 7312\end{array}$
967-40 11309
$966-4015306$
965-39 13302
965-40 $\quad 8 \quad 306$ DAY 10
$\begin{array}{llll}982 & -37 & 10 & 181\end{array}$
$\begin{array}{llll}983 & -38 & 8 & 205\end{array}$
$979-40 \quad 4250$
970-32 9288
959-19 10202
962-19 12190
963-16 15183
964-15 14172 DAY 17
$\begin{array}{llll}970 & -26 & 8 & 204\end{array}$
$\begin{array}{llll}972 & -24 & 8 & 201\end{array}$
$\begin{array}{llll}973 & -25 \quad 7193\end{array}$
$\begin{array}{llll}974 & -27 & 6 & 247\end{array}$
$\begin{array}{llll}975 & -27 & 933\end{array}$
977-24-8228
978-25 10195
$\begin{array}{llll}982 & -35 & 3 & 191\end{array}$ DAY 24
980-32 15262
980-32 11259
$979-3315269$
$979-35 \quad 7297$
$\begin{array}{llll}978 & -35 & 8 & 295\end{array}$
$\begin{array}{llll}978 & -34 & 7 & 290\end{array}$
$\begin{array}{llll}977 & -33 & 6 & 290\end{array}$
977 -36 4290 DAY 31
984-38 10242
984-37 11253
$\begin{array}{llll}984 & -36 & 14 & 264\end{array}$
$\begin{array}{llll}983 & -35 & 17 & 267\end{array}$
$982-3515 \quad 271$
$\begin{array}{lll}981 & -35 & 14 \\ 274\end{array}$
$980-3516274$

PP TT VV DD

$$
\text { DAY } 4
$$

$966-40 \quad 7315$
$\begin{array}{llll}968 & -39 & 11 & 300\end{array}$
$971-40 \quad 9298$
$973-447219$
$\begin{array}{llll}975 & -41 & 10 & 211\end{array}$
$\begin{array}{llll}978 & -41 & 8 & 195\end{array}$
979-42 5208
$\begin{array}{llll}978 & -46 & 314\end{array}$
DAY 11
$\begin{array}{llll}966 & -1515173\end{array}$
968-16 14173
974-23 7148
$\begin{array}{llll}981 & -31 & 5 & 122\end{array}$
981-32 00
982-31
980-30
979-30
DAY 18
$\begin{array}{llll}982 & -37 & 3 & 262\end{array}$
$\begin{array}{llll}980 & -37 & 3 & 240\end{array}$
$977-32 \quad 9255$
$\begin{array}{llll}974 & -31 & 13 & 270\end{array}$
$\begin{array}{llll}973 & -35 & 3 & 271\end{array}$
$\begin{array}{llll}972 & -36 & 7 & 300\end{array}$
$970-3211283$
$\begin{array}{llll}971 & -33 & 7 & 277\end{array}$

## DAY 25

$\begin{array}{llll}979 & -34 & 7 & 208\end{array}$
$\begin{array}{llll}981 & -34 & 8 & 186\end{array}$
$\begin{array}{llll}983 & -38 & 5 & 198\end{array}$
983-41 2257
982 $-39 \quad 3 \quad 292$
$\begin{array}{llll}981 & -39 & 3 & 292\end{array}$
$\begin{array}{llll}980 & -38 & 2 & 292\end{array}$
$\begin{array}{lllll}980 & -38 & 3 & 271\end{array}$

PP TT VV DD

$$
\text { DAY } 5
$$

978-49 3257
978-50 3262
$978-47 \quad 5 \quad 236$
$\begin{array}{llll}978 & -49 & 3 & 240\end{array}$
978-51 3242
$\begin{array}{llll}976 & -49 & 1257\end{array}$
$\begin{array}{llll}974 & -49 & 0 & 0\end{array}$
$970-46 \quad 5315$ DAY 12
979-28
980-31
980-32
979-29
977-29
976-27
974-27
971-19

## DAY 19

$\begin{array}{lll}971 & -34 & 9 \\ 290\end{array}$
972 -32 10288
$\begin{array}{llll}971 & -34 & 9 & 295\end{array}$
$\begin{array}{llll}970 & -25 & 10 & 257\end{array}$
$\begin{array}{llll}972 & -25 & 8 & 194\end{array}$
$\begin{array}{lll}975 & -26 & 917\end{array}$
$\begin{array}{llll}978 & -27 & 8 & 195\end{array}$
$\begin{array}{llll}981 & -31 & 9 & 188\end{array}$ DAY 26
979-32 10273
$\begin{array}{llll}980 & -37 & 8 & 300\end{array}$
$\begin{array}{llll}980 & -36 & 7310\end{array}$
$\begin{array}{llll}980 & -36 & 7303\end{array}$
$\begin{array}{llll}980 & -38 & 6 & 313\end{array}$
$979-37 \quad 7 \quad 300$
$979-33 \quad 9281$
$\begin{array}{llll}979 & -35 & 9 & 273\end{array}$

PP TT WV DD DAY 6
$\begin{array}{lll}968 & -44 & 5330\end{array}$
$\begin{array}{llll}965 & -42 & 8 & 305\end{array}$
$\begin{array}{lll}964 & -45 & 6312\end{array}$
965-41 6290
967-46 3232
$\begin{array}{llll}968 & -48 & 3 & 252\end{array}$
968-41 0
$\begin{array}{llll}965 & -30 & 13 & 271\end{array}$ DAY 13
970-21 4176
968-20 9186
968-20 12208
968-20 10205
969-21 12247
968-18 12190
969 - 1712181
970-19 13165 DAY 20
$\begin{array}{lll}982 & -31 & 5 \\ 214\end{array}$
$\begin{array}{llll}981 & -35 & 3 & 229\end{array}$
$\begin{array}{llll}980 & -34 & 3 & 226\end{array}$
$\begin{array}{llll}979 & -33 & 0 & 0\end{array}$
$\begin{array}{llll}978 & -33 & 1 & 174\end{array}$
$977-33 \quad 3260$
$976-31 \quad 4 \quad 260$
$976-30 \quad 5298$ DAY 27
$\begin{array}{llll}979 & -38 & 6 & 283\end{array}$
979-39 7294
$979-41 \quad 6294$
$978-40 \quad 6300$
$\begin{array}{llll}978 & -37 & 8 & 300\end{array}$
$\begin{array}{llll}978 & -38 & 6 & 300\end{array}$
$\begin{array}{llll}977 & -38 & 6 & 300\end{array}$
978-41 6295

PP TT W DD
DAY 7
963-36 $8 \quad 306$
$\begin{array}{llll}959 & -34 & 17 & 273\end{array}$
$960-3615253$
$963-3614252$
$\begin{array}{llll}966 & -35 & 8 & 245\end{array}$
$967-3511250$
968 -35 10290
$\begin{array}{llll}969 & -38 & 5 & 277\end{array}$
DAY 14
$\begin{array}{llll}974 & -33 & 6 & 169\end{array}$
$\begin{array}{llll}977 & -37 & 3 & 202\end{array}$
977 -32 5232
$\begin{array}{llll}979 & -21 & 8181\end{array}$
980-18 15190
983-21 13174
985-23 11181
985 -24 5197 DAY 21
974 -28 10278
975 -27 7256
$\begin{array}{llll}976 & -32 & 4 & 238\end{array}$
$\begin{array}{llll}978 & -32 & 7225\end{array}$
$\begin{array}{lllll}978 & -32 & 4 & 233\end{array}$
$\begin{array}{llll}978 & -36 & 3 & 249\end{array}$
$\begin{array}{llll}978 & -34 & 5 & 219\end{array}$
$\begin{array}{llll}980 & -34 & 7 & 188\end{array}$
DAY 28
$979-40 \quad 5284$
$\begin{array}{llll}980 & -44 & 3 & 297\end{array}$
$\begin{array}{llll}983 & -52 & 2111\end{array}$
$\begin{array}{lllll}985 & -53 & 3 & 187\end{array}$
988 -54 3229
$989-52 \quad 5252$
$990-51 \quad 4 \quad 235$
991-50 4229

* tEMPERATURE $(C) *$ MEAN $=-35.3$ STD DEV $=8.6$ MAX $=-14.9$ AT 2200 GMT ON DAY 10 MIN $=-54.0$ AT 1020 GMT ON DAY 28
* theta (K) * MEAN $=239.55$
* PRESSURE (MB) * MEAN $=975.8$ STD DEV $=8.6$ MAX $=993.0$ AT 830 GMT ON DAY 29 MIN $=947.2$ AT 2330 GMT ON DAY 8
* WINDS (M/S) * MEAN $=7.5$ STD DEV $=3.8$ RESULTANT $=5.5$ FROM 245. CONSTANCY $=0.73$ maX $=23.8$ FROM 266. AT 1730 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $4.4 \%$
 $\begin{array}{llllllllllllllllllll} \\ \text { PERCENT: } & 3 & 17 & 18 & 18 & 18 & 12 & 7 & 5 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE $\quad$ E $\quad$ ESE $\quad$ SE $\quad$ SSE $\quad \mathbf{S}$ SSW
PERCENT
$\begin{array}{llllllllllllllll}0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 12 & 12 & 13 & 19 & 15 & 20 & 5 & 0\end{array}$

SEP 9

HR PP TT VV DD
$\begin{array}{lllll}00 & 979 & -35 & 18 & 276\end{array}$
$\begin{array}{llllll}03 & 978 & -35 & 16 & 283\end{array}$
$\begin{array}{lllll}06 & 979 & -37 & 11 & 288\end{array}$
$\begin{array}{llll}09 & 978 & -38 & 9 \\ 292\end{array}$
$\begin{array}{llll}12 & 976 & -34 & 12 \\ 284\end{array}$
$\begin{array}{lllll}15 & 974 & -34 & 11 & 292\end{array}$
$\begin{array}{llllll}18 & 972 & -34 & 11 & 295\end{array}$
$\begin{array}{llll}21 & 970 & -25 & 7 \\ 233\end{array}$ DAY 8
$\begin{array}{llll}00 & 981 & -32 & 983\end{array}$
$\begin{array}{llllll}03 & 982 & -31 & 13 & 283\end{array}$
$06 \quad 984-3211269$
$\begin{array}{lllll}09 & 984 & -32 & 14 & 266\end{array}$
$\begin{array}{llllll}12 & 985 & -31 & 15 & 264\end{array}$
$\begin{array}{lllll}15 & 985 & -32 & 12 & 259\end{array}$
$\begin{array}{lllll}18 & 984 & -33 & 8 & 288\end{array}$
$\begin{array}{llll}21 & 983-35 & 4 & 320\end{array}$ DAY 15
$00 \quad 980-48 \quad 7205$
$\begin{array}{lllll}03 & 981 & -47 & 5 & 200\end{array}$
$\begin{array}{lllll}06 & 981 & -44 & 7 & 245\end{array}$
$09 \quad 980-42 \quad 8239$
$\begin{array}{llll}2 & 979 & -42 & 10 \\ 249\end{array}$
$\begin{array}{lllll}15 & 979 & -41 & 9 & 291\end{array}$
$\begin{array}{lllll}18 & 977 & -39 & 11 & 250\end{array}$
$\begin{array}{llllll}21 & 975 & -36 & 10 & 242\end{array}$ DAY 22
$00 \quad 979-2615245$
$\begin{array}{lllll}03 & 979 & -24 & 10 & 240\end{array}$

| 06 | 980 | -22 | 6 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}09 & 982 & -24 & 5 \\ 162\end{array}$
$\begin{array}{llll}12 & 982 & -24 & 214\end{array}$
$\begin{array}{llll}15 & 980 & -23 & 5 \\ 262\end{array}$
$\begin{array}{llll}18 & 978 & -23 & 7 \\ 263\end{array}$
$\begin{array}{llll}21 & 976 & -24 & 7 \\ 298\end{array}$ DAY 29
$\begin{array}{llll}00 & 982 & -24 & 7 \\ 238\end{array}$
$\begin{array}{llll}03 & 983 & -24 & 7231\end{array}$
$06 \quad 984-26 \quad 8253$
$\begin{array}{llll}09 & 984 & -28 & 4 \\ 239\end{array}$
$\begin{array}{lllll}12 & 984 & -30 & 7 & 236\end{array}$
$\begin{array}{llll}15 & 984 & -28 & 8 \\ 245\end{array}$
$\begin{array}{llll}18 & 984 & -29 & 7221\end{array}$
$\begin{array}{llll}21 & 984-28 \quad 7 & 242\end{array}$

PP TT VV DD PP TT VV DD DAY 2
970-32 8205
$\begin{array}{llll}970 & -35 & 5 & 219\end{array}$
$\begin{array}{lllll}972 & -34 & 4 & 184\end{array}$
$\begin{array}{lll}973 & -35 & 2228\end{array}$
$\begin{array}{llll}975 & -30 & 2167\end{array}$
$\begin{array}{llll}977 & -27 & 6 & 202\end{array}$
$979-25 \quad 3245$
$980-24 \quad 9245$ DAY 9
983-32 6260
$\begin{array}{llll}981 & -33 & 0 & 0\end{array}$
979-33 0
$\begin{array}{llll}978 & -32 & 4 & 172\end{array}$
$\begin{array}{llll}976 & -31 & 8 & 200\end{array}$
974-32 9193
$\begin{array}{lllll}972 & -32 & 8 & 217\end{array}$
$969-30 \quad 7191$ DAY 16
975-35 6222
$\begin{array}{llll}974 & -35 & 5 & 219\end{array}$
$\begin{array}{llll}974 & -36 & 5 & 207\end{array}$
$\begin{array}{llll}974 & -36 & 7 & 226\end{array}$
$\begin{array}{llll}974 & -36 & 7 & 218\end{array}$
$\begin{array}{llll}975 & -41 & 3 & 177\end{array}$
$\begin{array}{lllll}976 & -43 & 4 & 186\end{array}$
$\begin{array}{llll}979 & -45 & 6 & 193\end{array}$ DAY 23
974-23 7298
971 -21 7288
969 -18 9281
966-16 9263
964-12 $\quad 5 \quad 211$
966-17 9179
$\begin{array}{llll}968 & -19 & 8 & 174\end{array}$
$969-17 \quad 5184$ DAY 30
$\begin{array}{llll}983 & -27 & 8 & 249\end{array}$
$\begin{array}{lll}983 & -26 & 8200\end{array}$
$\begin{array}{llll}982 & -24 & 7 & 247\end{array}$
$\begin{array}{lll}981 & -25 & 7255\end{array}$
978 -26 8245
977 -26 9263
$\begin{array}{llll}976 & -26 & 6 & 271\end{array}$
$976-26 \quad 7276$

DAY 3
982-24 12253
983-24 13257
$984-2413260$
$985-2614278$
985-25 17264
986-27 10266
985-27 12262
$984-279260$ DAY 10
$\begin{array}{llll}969 & -32 & 9 & 217\end{array}$
$\begin{array}{llll}968 & -32 & 5 & 221\end{array}$
966-36 4256
$\begin{array}{llll}964 & -37 & 3 & 274\end{array}$
963 -36 2250
$\begin{array}{llll}961 & -35 & 8 & 302\end{array}$
$\begin{array}{llll}961 & -37 & 6 & 303\end{array}$
$\begin{array}{llll}961 & -34 & 5 & 303\end{array}$ DAY 17
$\begin{array}{lll}981 & -47 \quad 4 & 201\end{array}$
$\begin{array}{lll}983 & -47 & 211\end{array}$
984-48 2255
$\begin{array}{lll}986 & -47 & 255\end{array}$
$\begin{array}{lll}987 & -46 & 255\end{array}$
$\begin{array}{llll}988 & -47 & 238\end{array}$
$990-46 \quad 3 \quad 252$
$991-47<202$

## DAY 24

$\begin{array}{llll}971 & -17 & 6195\end{array}$
972-14 4184
$974-14 \quad 9179$
976-17 8183
$\begin{array}{llll}974 & -17 & 8 & 228\end{array}$
$\begin{array}{llll}970 & -7 & 12 & 219\end{array}$
$\begin{array}{llll}966 & -7 & 16177\end{array}$
$\begin{array}{llll}967 & -9 & 11 & 186\end{array}$

PP TT VV DD DAY 4
983-29 4257
982-26 9273
977-26 14257
$\begin{array}{llll}976 & -28 & 9 & 263\end{array}$
974-30 3263
$\begin{array}{llll}971 & -39 & 6 & 202\end{array}$
$\begin{array}{llll}971 & -38 & 5 & 217\end{array}$
$\begin{array}{llll}970 & -33 & 5 & 219\end{array}$ DAY 11
963-32 12308
967-32 12302
$\begin{array}{llll}971 & -36 & 6 & 284\end{array}$
$\begin{array}{llll}975 & -38 & 6 & 273\end{array}$
979-37 5245
984-43 4232
$\begin{array}{llll}988 & -44 & 352\end{array}$
992-40 5247 DAY 18
993-44 3239
993-41 2242
994-41 4239
$995-37 \quad 5 \quad 239$
$995 \quad-38 \quad 4 \quad 231$
$994-35 \quad 6 \quad 233$
$\begin{array}{llll}994 & -36 & 4 & 257\end{array}$
993-36 6260 DAY 25
$\begin{array}{lll}970 & -9 & 15 \\ 155\end{array}$
972-10 8169
$\begin{array}{llll}971 & -9 & 10 & 172\end{array}$
$\begin{array}{lll}970 & -9 & 12180\end{array}$
$\begin{array}{llll}971 & -9 & 12172\end{array}$
972-10 11163
976-12 8176
978-13 6193
 DAY 5
$970-29 \quad 5191$
$\begin{array}{llll}970 & -29 & 8 & 200\end{array}$
972-29 6 195
973-29 6217
$972-26 \quad 6239$
$\begin{array}{llll}972 & -26 & 8 & 232\end{array}$
974-26 8226
976 -27 6202 DAY 12
996-39 4226
998-39 4224
1000-43 2239
1001-42 2260
1001 -36 6253
1000-34 10270
998 - 3311260
997-34 14255 DAY 19
993-36 4253
$\begin{array}{llll}992 & -37 & 4 & 211\end{array}$
$\begin{array}{llll}991 & -34 & 4 & 271\end{array}$
$990-35 \quad 5 \quad 250$
989-32 12257
989-33 13252
987-33 $18 \quad 257$
987-34 15253 DAY 26
$\begin{array}{llll}978 & -9 & 11 & 194\end{array}$
$\begin{array}{llll}978 & -8 & 13 & 201\end{array}$
$\begin{array}{llll}978 & -9 & 10 & 195\end{array}$
$\begin{array}{llll}978 & -8 & 10 & 198\end{array}$
$\begin{array}{llll}978 & -9 & 7 & 201\end{array}$
979-15 6228
980-16 6224
981-15 3221

PP TT WV DD DAY 6
$\begin{array}{lll}976 & -27 & 725\end{array}$
$\begin{array}{lll}976 & -24 & 8 \\ 236\end{array}$
$\begin{array}{llll}976 & -22 & 815\end{array}$
$\begin{array}{llll}978 & -30 & 6 & 181\end{array}$
$\begin{array}{llll}978 & -24 & 631\end{array}$
$\begin{array}{llll}977 & -25 & 8 & 232\end{array}$
$\begin{array}{llll}978 & -27 & 8 & 233\end{array}$
977-28 12249 DAY 13
996-34 15257
$\begin{array}{lllll}994 & -33 & 13 & 263\end{array}$
$\begin{array}{lllll}992 & -33 & 11 & 264\end{array}$
$\begin{array}{llll}991 & -33 & 9 & 277\end{array}$
$\begin{array}{llll}988 & -32 & 9 & 277\end{array}$
984-31 17266
981-32 22266
980-34 17253 DAY 20
$\begin{array}{lll}988 & -34 & 16 \\ 246\end{array}$
$\begin{array}{llll}988 & -34 & 14 & 253\end{array}$
989-41 7219
$990-39 \quad 5242$
$991-415243$
$991-414249$
$991-40 \quad 6260$
$991-40 \quad 5233$ DAY 27
981-15 4246
979-17 5256
$979-20 \quad 4278$
977-18 7300
977 -22 8222
983-22 9219
986-26 6215
985-27 0 0

PP TT WV DD DAY 7
977-28 12245
$\begin{array}{lll}977 & -31 & 7235\end{array}$
$\begin{array}{llll}978 & -31 & 11 & 247\end{array}$
977 -31 10257
$\begin{array}{llll}976 & -31 & 13 & 263\end{array}$
$\begin{array}{llll}977 & -34 & 7 & 298\end{array}$
$\begin{array}{llll}978 & -33 & 6 & 288\end{array}$
979 -33 7267 DAY 14
979-35 19255
$\begin{array}{llll}978 & -37 & 8 & 231\end{array}$
$\begin{array}{llll}977 & -38 & 7 & 231\end{array}$
$\begin{array}{lllll}975 & -38 & 12 & 246\end{array}$
$\begin{array}{llll}975 & -42 & 646\end{array}$
$977-518228$
$977-497211$
$\begin{array}{llll}978 & -49 & 8 & 207\end{array}$
DAY 21
$\begin{array}{llll}991 & -37 & 5 & 240\end{array}$
$\begin{array}{lll}991 & -36 & 7235\end{array}$
$\begin{array}{llll}990 & -37 & 6 & 245\end{array}$
$\begin{array}{llll}988 & -36 & 9 & 256\end{array}$
$\begin{array}{llll}986 & -34 & 8 & 259\end{array}$
$\begin{array}{llll}985 & -33 & 8 & 249\end{array}$
983-31 12249
981-28 14245 DAY 28
981-26 0
980-27
981-26
982-31
982-30
$\begin{array}{llll}983 & -28 & 6 & 253\end{array}$
$\begin{array}{llll}982 & -26 & 8 & 238\end{array}$
981-24 $10 \quad 259$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-30.1$ Std dev $=9.4$ max $=-5.6$ at 1700 GMT ON dAY 24 MIN $=-51.2$ AT 1550 GMT ON DAY 14
* theta (K) * MEAN $=244.46$
* PRESSURE (MB) * MEAN $=979.9$ STD DEV $=8.0$ maX $=1001.2$ at 1100 GMT ON DAY 12 MIN $=960.4$ AT 1630 GMt ON DAY 10
* WINDS (M/S) * MEAN $=7.7$ STD DEV $=3.8$ RESULTANT $=6.4$ FROM 243. CONSTANCY $=0.84$ MAX $=22.0$ FROM 266. AT 1750 GMT DAY 13
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $1.7 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ $\begin{array}{lllllllllllllllllll} \\ \text { PERCENT: } & 5 & 10 & 20 & 25 & 14 & 13 & 6 & 4 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 9 & 12 & 19 & 31 & 18 & 9 & 1 & 0\end{array}$

OCT 97
$\begin{array}{llrl}\text { HR } \quad \text { PP } & \text { TT VV } & \text { DD } \\ & \text { DAY } & 1\end{array}$
00 977-26
03 978-26

| 06 | 978 |
| :--- | :--- |
|  | -24 |

09 978-25
12 978-24
$\begin{array}{lllll}15 & 977 & -22 & 8 & 270\end{array}$
$\begin{array}{llll}18 & 976 & -20 & 10 \\ 262\end{array}$
21 976-18 10240 DAY 8
00 992-19 13257
03 990-19 12260
06 990-19 12273
09 988-20 15262
$\begin{array}{lllll}12 & 987 & -21 & 12 & 271\end{array}$
$15 \quad 986-2216264$
$\begin{array}{lllll}18 & 984 & -24 & 16 & 263\end{array}$
$\begin{array}{llll}21 & 985 & -22 & 10 \\ 238\end{array}$ DAY 15
$00 \quad 989-22 \quad 10243$
$\begin{array}{llll}03 & 989 & -23 & 7221\end{array}$
$\begin{array}{lllll}06 & 989 & -24 & 11 & 243\end{array}$
$\begin{array}{lllll}09 & 989 & -24 & 8 & 256\end{array}$
$\begin{array}{lllll}12 & 989 & -24 & 10 & 246\end{array}$
$\begin{array}{lllll}15 & 989 & -26 & 10 & 245\end{array}$
$\begin{array}{llllll}18 & 989 & -27 & 12 & 243\end{array}$
$21 \quad 989-2713242$ DAY 22
$\begin{array}{lllll}00 & 961 & -18 & 14 & 195\end{array}$
$\begin{array}{lllll}03 & 960 & -17 & 12 & 191\end{array}$
$\begin{array}{lllll}06 & 961 & -17 & 12 & 184\end{array}$
$\begin{array}{llllll}09 & 962 & -17 & 14 & 193\end{array}$
$\begin{array}{lllll}12 & 962 & -16 & 13 & 190\end{array}$
$\begin{array}{lllll}15 & 962 & -18 & 10 & 188\end{array}$
$\begin{array}{lllll}18 & 964 & -18 & 9 & 181\end{array}$
$\begin{array}{lllll}21 & 967-17 & 11 & 184\end{array}$ DAY 29

| 00 | 971 | -20 | 9 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}03 & 971-19 & 6 & 269\end{array}$
$\begin{array}{llll}06 & 970 & -20 & 9 \\ 266\end{array}$
$\begin{array}{lllll}09 & 969 & -23 & 5 & 306\end{array}$
$\begin{array}{lllll}12 & 968 & -21 & 10 & 285\end{array}$
$\begin{array}{lllll}15 & 968 & -23 & 8 & 306\end{array}$
$\begin{array}{llll}18 & 968 & -22 & 8 \\ 288\end{array}$
$\begin{array}{llll}21 & 968 & -21 \quad 6 & 246\end{array}$

PP TT VV DD DAY 2
974-17 10239 $\begin{array}{llll}971 & -14 & 8 & 235\end{array}$ 970-10 7207 $968-13 \quad 9245$ 965-12 11236 965-15 $10 \quad 172$ 968 -20 9193 $\begin{array}{llll}969 & -17 & 6 & 187\end{array}$ DAY 9
985-21 12242 986-20 9239 985-19 8247 984-20 8253 983-19 8240 $983-229242$
$981-2411255$
979-22 11243 DAY 16
$989-26 \quad 9236$ $\begin{array}{llll}988 & -25 & 8 & 250\end{array}$ 987-26 6245 987-27 6263
$\begin{array}{llll}986 & -28 & 6 & 273\end{array}$
$\begin{array}{llll}986 & -31 & 3 & 281\end{array}$
$\begin{array}{llll}986 & -32 & 3 & 283\end{array}$
987-29 3262 DAY 23
967-16 12181
$\begin{array}{lllll}966 & -14 & 13183\end{array}$
965-12 16186
964-11 18191
962-11 17197
961-11 14188
$\begin{array}{llll}961 & -1213179\end{array}$
965-12 $8 \quad 160$ DAY 30
968 -20 11262
$968-20 \quad 9256$
967-20 8263
$967-21 \quad 9252$
968-23 8263
$\begin{array}{lll}968 & -24 & 7255\end{array}$
$969-23 \quad 9259$
$969-23 \quad 8 \quad 263$

| PP | TT VV |
| ---: | ---: | ---: |
| DAY | $\mathbf{D}$ |

970-20 4169
971-19 5246
971-20 2207
$\begin{array}{llll}972 & -24 & 5 & 172\end{array}$
$\begin{array}{lll}975 & -28 & 5183\end{array}$

| 978 | -23 | 9 |
| :--- | :--- | :--- |

980-21 $8 \quad 172$
$981-21 \quad 4207$

## DAY 10

977-20 12245
976-19 10242
975-17 7253
973-18 7263
$972-20 \quad 5198$
$\begin{array}{lll}972 & -20 \quad 6 & 239\end{array}$
$\begin{array}{llll}973 & -22 & 5 & 181\end{array}$
$\begin{array}{lll}974 & -21 & 514\end{array}$ DAY 17
987-24 4239
987-24 5232
$\begin{array}{llll}987 & -24 & 3 & 233\end{array}$
986-27 3240
985-31
984-31
984-30
$\begin{array}{llll}983 & -27 & 5 & 264\end{array}$ DAY 24
970-13 6177
$\begin{array}{llll}971 & -12 \quad 5187\end{array}$
$\begin{array}{llll}972 & -12 & 6 & 195\end{array}$
973-12 5205
$973-12 \quad 5219$
972-14
973-14
973-14
DAY 31
969-22 13238
$969-2211252$
968-22 12252
968-22 10264
$967-2313263$
$\begin{array}{llll}966 & -24 & 11 & 270\end{array}$

| 966 | -24 | 9 |
| :--- | :--- | :--- |

PP TT VV DD PP TT VV DD PP TT VV DD DAY 4
$\begin{array}{llll}981 & -20 & 4184\end{array}$
981-22 3224
980-21
979-24
978-22
$\begin{array}{llll}978 & -22 & 535\end{array}$
977-19 7236
977-19 7229 DAY 11
$\begin{array}{llll}975 & -17 & 9 & 231\end{array}$
974-14 16179
$977-15 \quad 9 \quad 181$
980-13 12179
981-14 13172
982-13 12181
$\begin{array}{llll}982 & -13 & 15 & 187\end{array}$
982-13 16179

$$
\text { DAY } 18
$$

982-25 6 250
$\begin{array}{lll}981 & -24 \quad 5245\end{array}$
981-25 4260
$\begin{array}{lll}981 & -29 & 4 \\ 292\end{array}$
$\begin{array}{lll}980 & -30 & 5 \\ 284\end{array}$
$\begin{array}{llll}981 & -33 & 4 & 291\end{array}$
$\begin{array}{llll}981 & -35 & 4 & 291\end{array}$
982-32
DAY 25
973-14
973-14
973-17
972-19 9264
$971-20 \quad 7277$
971 -21 8288
$972-23 \quad 7310$
972-21 12278

DAY 5
977-19 7235
$-2010245$
$976-2011246$
975 -20 10255
975 -21 8252
$974-20 \quad 10270$
$\begin{array}{llll}974 & -19 & 8 & 281\end{array}$
974-16 7215

## DAY 12

982-12 16183
982-12 13180
982-12 11183
983-12 12193
982-11 15188
982-11 12202
982-12 11211
982-12 8215 DAY 19
983-28
983-27
983-25
984-29
983-31
983-30
982-31
982-29
DAY 26
972-21 11285
973-20 5273
974-21 7277
$\begin{array}{llll}974 & -21 & 8 & 249\end{array}$
975-24 6228
974-25 8211
$977-24 \quad 9207$
$977-20 \quad 8191$

DAY 6
974-13 6215
975-12 8231
976-13 10239
976-14 7266
976-14 10247
979-14 6259
981-15 6243
983-16 10245 DAY 13
982-14 9240
982-15 10252
981-15 3260
979-20 0
980-23 4245
980-24 4247
979-20 7260
979-19 0
DAY 20
981-26
979-24
978-24
977-28
976-28
975-29
$\begin{array}{llll}973 & -26 & 7 & 247\end{array}$
$\begin{array}{llll}973 & -24 & 7 & 228\end{array}$
DAY 27
978-19 6210
978-18 5242
975-19 2256
971-17 10278
$970-224259$
970-22 5259
$969-21 \quad 5257$
968-21 9262

PP TT WV DD DAY 7
985-15 10243
987-17 6190
$\begin{array}{llll}988 & -18 & 7 & 232\end{array}$
990-20 7235
991-19 $8 \quad 238$
992-19 10240
993-19 12245
992-19 12253
DAY 14
981-23 6218
982-21 5225
983-23 4253
983-22 6269
$\begin{array}{llll}985 & -27 & 5 & 232\end{array}$
$\begin{array}{llll}985 & -27 & 6 & 242\end{array}$
$\begin{array}{llll}987 & -23 & 8 & 236\end{array}$
988-22 10239
DAY 21
972-26 5194
971 -29 7174
$970-29 \quad 7191$
969 -29 7176
968-29 8193
$\begin{array}{llll}966 & -28 & 6 & 215\end{array}$
$\begin{array}{llll}964 & -24 & 9 & 218\end{array}$
961-19 13207

## DAY 28

968-19 5250
$969-224208$
$970-214232$
970-22
971-28
971-29
$971-23 \quad 7242$
972-22 3240

* temperature ( $C$ ) * mean $=-20.7$ Std dev $=5.2$ max $=-8.2$ at 1340 GMT ON DAY 2 min $=-35.6$ AT 1630 GMt ON DAY 18
* THETA (K) * MEAN $=254.17$
* PRESSURE (MB) * MEAN $=976.5$ STD DEV $=7.7$ MAX $=992.7$ AT 1810 GMT ON DAY 7 MIN $=959.8$ AT 310 GMT ON DAY 22
* WINDS (M/S) * MEAN $=8.3$ STD DEV $=3.4$ RESULTANT $=6.9$ FROM 232. CONSTANCY $=0.83$ mAX $=22.0$ FROM 186 . AT 1540 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.4 \%$ WINDS: $14.1 \%$
 PERCENT: WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
percent

NOV 97

| HR | PP | TT | VV |
| :--- | :--- | ---: | ---: |
| DAY | 1 |  |  |

$00 \quad 964-22 \quad 15 \quad 263$
$\begin{array}{llll}03 & 965 & -22 & 17 \\ 262\end{array}$
$\begin{array}{lllll}06 & 965 & -23 & 11 & 262\end{array}$
$\begin{array}{lllll}09 & 966 & -25 & 8 & 240\end{array}$
$\begin{array}{lllll}12 & 966 & -29 & 3 & 208\end{array}$
$\begin{array}{lllll}15 & 967 & -28 & 5 & 243\end{array}$
$\begin{array}{lllll}18 & 968 & -26 & 8 & 243\end{array}$
$21 \quad 970-27 \quad 8212$ DAY 8
$\begin{array}{lllll}00 & 987 & -9 & 7 & 245\end{array}$
$\begin{array}{lllll}03 & 983 & -10 & 13 & 249\end{array}$
$\begin{array}{lllll}06 & 982 & -8 & 7 & 228\end{array}$
$\begin{array}{lllll}09 & 981 & -7 & 14 & 180\end{array}$
$\begin{array}{lllll}12 & 979 & -6 & 14 & 188\end{array}$
$\begin{array}{lllll}15 & 980 & -7 & 12 & 177\end{array}$
$\begin{array}{lllll}18 & 983 & -8 & 12 & 176\end{array}$
$\begin{array}{lllll}21 & 988 & -8 & 11 & 165\end{array}$ DAY 15
$\begin{array}{rrrrr}00 & 983 & -8 & 9 & 242 \\ 03 & 983 & -6 & 6 & 233 \\ 06 & 983 & -5 & 10 & 191 \\ 09 & 983 & -6 & 11 & 202 \\ 12 & 984 & -6 & 11 & 193 \\ 15 & 985 & -7 & 11 & 191 \\ 18 & 987 & -7 & 13 & 190 \\ 21 & 988 & -7 & 9 & 191\end{array}$
$\begin{array}{rrr}21 & 988 & -7 \\ & 9 \\ & \text { DAY } & 22\end{array}$
$00 \quad 1000 \quad-3 \quad 3 \quad 231$ $\begin{array}{lllll}03 & 1000 & -3 & 5 & 257\end{array}$ $\begin{array}{lllll}06 & 1000 & -4 & 3 & 320\end{array}$ $091001-3 \quad 7262$ $\begin{array}{llll}12 & 1001 & -6 & 6 \\ 284\end{array}$ $\begin{array}{llll}15 & 1001 & -9 & 280\end{array}$ $\begin{array}{llll}18 & 1002 & -10 \quad 4 & 288\end{array}$ $\begin{array}{llll}21 & 1003 & -9 & 246\end{array}$ DAY 29
$\begin{array}{lllll}00 & 990 & -11 & 6 & 205\end{array}$
$03 \quad 990-10 \quad 3224$
$\begin{array}{llll}06 & 991 & -10 & 264\end{array}$
$09 \quad 991-13 \quad 3 \quad 276$

| 12 | 992 | -16 | 2 |
| :--- | :--- | :--- | :--- |


| 15 | 993 | -18 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}18 & 993 & -15 & 3 \\ 277\end{array}$
$\begin{array}{llll}21 & 994 & -12 \quad 3 & 274\end{array}$

PP TT VV DD PP TT VV DD DAY 2
971-24 9219
$972-23 \quad 8222$
$\begin{array}{lll}972 & -24 \quad 7 & 204\end{array}$
$972-25 \quad 5225$
971-29 3264
969-29 3252
966-29 3336
$965-24 \quad 7285$
DAY 9
$\begin{array}{llll}991 & -7 & 12184\end{array}$
$\begin{array}{llll}992 & -7 & 12 & 184\end{array}$
$\begin{array}{llll}994 & -7 & 10 & 193\end{array}$
$995-813186$
$\begin{array}{llll}996 & -8 & 9 & 186\end{array}$
$996-9 \quad 8 \quad 195$
$996-8 \quad 9 \quad 190$
$\begin{array}{llll}996 & -7 & 9 & 186\end{array}$
DAY 16
$\begin{array}{llll}989 & -5 & 12 & 187\end{array}$
$\begin{array}{llll}989 & -6 & 10 & 195\end{array}$
$989-6 \quad 9205$
$\begin{array}{llll}989 & -8 & 7 & 226\end{array}$
988-10 7239
987-11 6245
$\begin{array}{llll}986 & -9 & 6 & 246\end{array}$
$\begin{array}{llll}984 & -8 & 4 & 253\end{array}$
DAY 23
$\begin{array}{llll}1003 & -9 & 3 & 183\end{array}$
$\begin{array}{llll}1004 & -7 & 3 & 165\end{array}$
$\begin{array}{llll}1004 & -7 & 3 & 134\end{array}$
$\begin{array}{llll}1004 & -7 & 1 & 153\end{array}$
1005-13 2174
$1005-9 \quad 2183$
$\begin{array}{lll}1006 & -7 & 2\end{array} 169$
1007 -6 3190 DAY 30
$\begin{array}{llll}995 & -9 & 2 & 173\end{array}$
996-10 2201
996-10 2233
996-11 1256
996-14 2242
996-17 3211
995-12 4211
995-11 5211

$\begin{array}{lrlrrr}\text { PP } & T T & V V & D D & P P & T T \\ \text { DAY } & 4 & & & \text { DAY } & 5\end{array}$ DAY 4
966-17 7205
$\begin{array}{llll}966 & -14 & 8 & 205\end{array}$
964-11 14195
964-10 $10 \quad 180$
965-10 $15 \quad 170$
967-11 12177
969-11 12183
$\begin{array}{llll}970 & -9 & 16 & 174\end{array}$
DAY 11
$\begin{array}{llll}995 & -8 & 5 & 208\end{array}$
$\begin{array}{llll}994 & -8 & 5 & 205\end{array}$
993-10 6219
993-12 4217
993-15 4253
992-16 4245
992-15 4228
993-12 4239 DAY 18
$\begin{array}{llll}980 & -8 & 8 & 221\end{array}$
$\begin{array}{llll}980 & -5 & 14 & 194\end{array}$
$\begin{array}{llll}980 & -5 & 12 & 194\end{array}$
$\begin{array}{lllll}981 & -5 & 12 & 193\end{array}$
$982-412194$
$983-412191$
$984-412197$
$\begin{array}{lll}986 & -4 & 7207\end{array}$ DAY 25
$\begin{array}{lll}1003 & -3 & 236\end{array}$
$\begin{array}{lll}1002 & -1 & 1330\end{array}$
$\begin{array}{llll}1002 & -4 & 2360\end{array}$
$\begin{array}{llll}1002 & -7 & 1 & 6\end{array}$
$\begin{array}{llll}1001 & -9 & 20\end{array}$
1001-11 222
$\begin{array}{llll}1001 & -9 & 2 & 10\end{array}$
$\begin{array}{llll}1001 & -7 & 4 & 14\end{array}$

DAY 5
$\begin{array}{llll}971 & -9 & 13184\end{array}$
$\begin{array}{llll}971 & -8 & 17 & 190\end{array}$
$\begin{array}{llll}973 & -9 & 13194\end{array}$
$\begin{array}{llll}974 & -9 & 12 & 188\end{array}$
$\begin{array}{llll}976 & -9 & 14187\end{array}$
$978-916190$
$\begin{array}{llll}980 & -9 & 16 & 184\end{array}$
$\begin{array}{llll}981 & -8 & 13 & 197\end{array}$

## DAY 12

992-10 4224
992-10 3224
992-12 4231
992-14 2232
992-18 3215
$\begin{array}{llll}991 & -17 & 1 & 229\end{array}$
990-13 2341
989-14 1 - 98 DAY 19

## $986-311190$

$987-410214$
$989-411210$
$990-5 \quad 9 \quad 215$
$990 \quad-5 \quad 9219$
$991-411195$
$992-410202$
$993-411202$
DAY 26
$\begin{array}{llll}1000 & -5 & 3 & 326\end{array}$
$1000 \quad-5 \quad 2306$
$\begin{array}{llll}999 & -9 & 1 & 242\end{array}$
998-10 0
997-12 1240
996-13 3232
995-12 3210
995-10 4222

PP TT VV DD DAY 6
$\begin{array}{llll}983 & -9 & 13 \\ 201\end{array}$
$\begin{array}{llll}983 & -8 & 9 & 207\end{array}$
983-11 8240
982-12 $8 \quad 242$
981-13 4274
980-15 6247
982-15 3256
985-16 5214 DAY 13
989-15 3197
988-11 00
$\begin{array}{llll}988 & -14 & 0 & 0\end{array}$
$\begin{array}{llll}988 & -16 & 2 & 197\end{array}$
$988-21 \quad 3 \quad 246$
$988-22 \quad 3249$
988-18 $\quad 5 \quad 228$
$988-14 \quad 7228$ DAY 20
$\begin{array}{llll}994 & -3 & 10 & 197\end{array}$
$\begin{array}{llll}995 & -3 & 8 & 198\end{array}$
$\begin{array}{llll}996 & -4 & 8 & 229\end{array}$
$\begin{array}{llll}996 & -4 & 6 & 217\end{array}$
$\begin{array}{llll}996 & -6 & 5 & 226\end{array}$
$\begin{array}{llll}996 & -8 & 5 & 252\end{array}$
$\begin{array}{llll}996 & -7 & 5 & 247\end{array}$
$996 \quad-5 \quad 5 \quad 236$
DAY 27
994-11 5217
$\begin{array}{llll}993 & -11 & 314\end{array}$
991-11 3202
991-12 3202
$990-13 \quad 3 \quad 200$
$989-13 \quad 2222$
988-13 2228
987-12 3186

PP TT VV DD DAY 7
985-12 8236
985-10 9229
$\begin{array}{llll}987 & -8 & 12 & 187\end{array}$
$\begin{array}{llll}988 & -9 & 12 & 205\end{array}$
989-11 10208
$990-1011210$
990-11 10207
$989 \quad-9 \quad 8 \quad 221$ DAY 14
987-11 11215
988-10 9229
987-10 7242
$\begin{array}{lllll}986 & -8 & 8 & 214\end{array}$
986-11 8238
984-11 9249
$984-10 \quad 9240$
$\begin{array}{lll}984 & -6 & 7233\end{array}$
DAY 21
$\begin{array}{llll}996 & -5 & 4 & 219\end{array}$
$\begin{array}{llll}995 & -3 & 5 & 253\end{array}$
$\begin{array}{llll}995 & -3 & 2 & 281\end{array}$
$\begin{array}{llll}995 & -5 & 6 & 257\end{array}$
$\begin{array}{llll}995 & -9 & 256\end{array}$
996-12 2228
$\begin{array}{llll}997 & -9 & 0 & 0\end{array}$
$999-6 \quad 1284$
DAY 28
986-11 2146
985-11 2222
985-12 6204
985-12 5204
985-12 5202
986-12 5184
988-13 5208
$989-12 \quad 5211$

* temperature ( $C$ ) * mean $=-10.6$ Std dev $=5.8$ MAX $=-0.5$ AT 230 GMT ON dAY 24 MIN $=-30.6$ AT 1310 GMt ON dAY 1
* THETA (K) * MEAN $=263.47$
* PRESSURE (MB) * MEAN $=987.7$ STD DEV $=11.1$ MAX $=1007.4$ AT 2340 GMT ON DAY 23 MIN $=960.8$ AT 1410 GMT ON DAY 3
* WINDS ( $\mathrm{M} / \mathrm{S}$ ) * MEAN $=6.3 \mathrm{STD}$ DEV $=4.0$ RESULTANT $=5.3$ FROM 212. CONSTANCY $=0.85 \mathrm{MAX}=20.8$ FROM 181. AT 1000 GMT DAY 8
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 13 & 25 & 14 & 15 & 10 & 11 & 7 & 3 & 1 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \mathrm{S} & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lllllllllllllllll}\text { PERCENT } & 2 & 1 & 0 & 0 & 0 & 0 & 1 & 1 & 17 & 24 & 21 & 17 & 8 & 2 & 3 & 2\end{array}$

* TEMPERATURE (C) * MEAN $=-7.3$ STD DEV $=4.1$ MAX $=2.5$ AT 2200 GMT ON DAY 28 MIN $=-17.6$ AT 1220 GMT ON DAY 5
* THETA (K) * MEAN $=266.72$
* PRESSURE (MB) * MEAN $=988.7$ STD DEV $=5.8$ MAX $=1003.3$ AT 2230 GMT ON DAY 4 MIN $=975.8$ AT 1520 GMT ON DAY 13 * WINDS (M/S) * MEAN $=3.2$ STD DEV $=2.1$ RESULTANT $=1.7$ FROM 206. CONSTANCY $=0.55$ MAX $=12.8$ FROM 214 . AT 30 GMT DAY 23 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-1212-1414-16 \quad 16-18 \quad 18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+1$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{llllllllllllllll}5 & 6 & 4 & 2 & 2 & 3 & 5 & 5 & 15 & 17 & 16 & 5 & 8 & 4 & 1 & 2\end{array}$

| JAN | 97 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { wv } \\ 1 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { W } \\ 2 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { vv } \\ 3 \end{array}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 4 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { WV } \\ 6 \end{array}$ | DD | PP |  | $\begin{array}{r} \text { VV } \\ 7 \end{array}$ | DD |
| 00 | 761 | -17 | 5 | 74 | 760 | -17 | 7 | 71 |  |  |  |  |  |  |  |  | 755 | -14 | 5 | 68 | 751 | -17 | 3 | 164 | 749 | -21 | 5 | 40 |
| 03 | 761 | -18 | 6 | 74 |  |  |  |  |  |  |  |  | 757 | -14 | 8 | 57 | 755 | -16 | 6 | 81 | 751 | -18 | 3 | 150 |  |  |  |  |
| 06 |  |  |  |  | 759 | -19 | 10 | 90 | 758 | -19 | 4 | 56 | 757 | -14 | 8 | 49 |  |  |  |  | 750 | -19 | 4 | 140 |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  | 758 | -18 | 6 | 53 |  |  |  |  |  |  |  |  |  |  |  |  | 751 | -20 | 4 | 49 |
| 12 |  |  |  |  |  |  |  |  | 758 | -15 | 6 | 26 |  |  |  |  |  |  |  |  | 749 | -18 | 5 | 59 | 751 | -16 | 5 | 28 |
| 15 | 760 | -16 | 9 | 63 | 758 | -17 | 8 | 74 |  |  |  |  | 756 | -12 | 9 | 67 |  |  |  |  |  |  |  |  | 752 | -16 | 5 | 52 |
| 18 | 760 | -16 | 8 | 66 | 758 | -16 | 7 | 67 |  |  |  |  | 755 | -12 | 8 | 60 |  |  |  |  |  |  |  |  | 753 | -15 | 5 | 50 |
| 21 | 760 | -16 | 7 | 71 | 758 | -17 | 5 | 81 | 758 | -14 | 8 | 50 | 755 | -13 | 6 | 63 |  |  |  |  |  |  |  |  | 753 | -15 | 4 | 64 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 755 | -16 | 5 | 50 | 762 | -19 | 5 | 97 |  |  |  |  | 764 | -16 | 2 | 61 | 765 | -19 | 4 | 84 | 764 | -20 | 6 | 61 | 764 | -18 | 4 | 12 |
| 03 | 756 | -17 | 6 | 46 | 761 | -17 | 4 | 112 |  |  |  |  | 763 | -17 | 3 | 60 | 765 | -20 | 5 | 84 |  |  |  |  |  |  |  |  |
| 06 | 757 | -18 | 6 | 45 |  |  |  |  | 763 | -17 | 9 | 74 | 764 | -19 | 3 | 63 | 765 | -20 | 5 | 77 |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  | 762 | -14 | 5 | 61 | 763 | -17 | 8 | 77 | 764 | -17 | 3 | 70 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 765 | -15 | 2 | 12 |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  | 762 | -12 | 7 | 61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 763 | -17 | 7 | 36 |
| 18 |  |  |  |  | 762 | -12 | 7 | 63 | 763 | -15 | 4 | 57 | 765 | -14 | 1 | 92 |  |  |  |  |  |  |  |  | 763 | -17 | 7 | 45 |
| 21 | 761 | -15 | 4 | 54 | 762 | -13 | 9 | 70 |  |  |  |  | 765 | -18 | 2 | 116 | 765 | -19 | 5 | 64 | 763 | -15 | 6 | 4 |  |  |  |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | day | 20 |  |  | DAY | 21 |  |
| 00 | 762 | -19 | 8 | 52 | 754 | -16 | 7 | 71 | 767 | -19 | 6 | 358 | 767 | -17 | 7 | 67 | 758 | -22 | 8 | 104 | 760 | -22 | 7 | 66 | 766 | -19 | 4 | 39 |
| 03 | 760 | -20 | 10 | 73 | 755 | -16 | 5 | 61 | 768 | -19 | 5 | 352 | 766 | -20 | 7 | 78 | 757 | -22 | 9 | 81 | 761 | -21 | 7 | 60 | 766 | -18 | 3 | 49 |
| 06 | 759 | -21 | 9 | 67 | 757 |  | 4 | 336 |  |  |  |  | 765 | -19 | 6 | 94 | 757 | -22 | 9 | 70 | 762 | -20 | 7 | 40 | 766 | -18 | 3 | 43 |
| 09 |  |  |  |  | 759 | $-17$ | 7 | 323 |  |  |  |  |  |  |  |  | 757 | -22 | 9 | 71 |  |  |  |  | 765 | -17 | 3 | 47 |
| 12 | 755 | -18 | 12 | 92 |  |  |  |  | 769 | -18 | 6 | 16 | 763 | -18 | 9 | 78 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  | 763 | -18 | 7 | 316 | 769 | -18 | 6 | 19 | 761 | -19 | 9 | 105 | 758 | -20 | 8 | 64 |  |  |  |  | 764 | -17 | 8 | 33 |
| 18 |  |  |  |  | 765 | -18 | 5 | 323 |  |  |  |  | 760 | -17 | 9 | 73 | 759 | -19 | 7 | 66 | 765 | -18 | 5 | 21 | 764 | -17 | 7 | 47 |
| 21 | 753 | -15 | 10 | 67 | 766 | -18 | 6 | 340 | 768 | -18 | 5 | 64 | 760 | -18 | 9 | 82 | 759 | -20 | 7. | 64 | 765 | -19 | 8 | 23 | 764 | -18 | 7 | 84 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 764 | -20 | 7 | 77 | 766 | -21 | 3 | 47 | 764 | -22 | 7 | 80 | 759 | -21 | 13 | 67 | 763 | -20 | 9 | 73 | 762 | -21 | 7 | 68 |  |  |  |  |
| 03 |  |  |  |  | 767 | -21 | 3 | 54 |  |  |  |  | 760 | -20 | 8 | 67 | 763 | -21 | 11 | 57 | 762 | -23 | 8 | 71 | 760 | -26 | 6 | 98 |
| 06 | 763 | $-21$ | 7 | 81 |  |  |  |  | 762 | -22 | 9 | 70 | 760 | -19 | 8 | 37 | 763 | -21 | 9 | 64 | 762 | -23 | 8 | 71 |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  | 761 | -21 | 10 | 64 | 761 | -18 | 6 | 35 |  |  |  |  |  |  |  |  | 760 | -25 | 8 | 92 |
| 12 |  |  |  |  | 767 | -19 | 5 | 75 | 761 | -20 | 11 | 66 |  |  |  |  | 762 | -19 | 10 | 70 |  |  |  |  |  |  |  |  |
| 15 | 763 | -21 | 3 | 77 |  |  |  |  |  |  |  |  | 763 | -16 | 6 | 30 |  |  |  |  |  |  |  |  | 759 | -23 | 5 | 94 |
| 18 | 764 | -21 | 4 | 52 | 766 | -20 | 6 | 87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 759 | -21 | 3 | 95 |
| 21 | 765 | -21 | 4 | 16 | 765 | -22 | 7 | 95 | 760 | -21 | 12 | 66 | 763 | -19 | 8 | 66 | 762 | -21 | 11 | 67 |  |  |  |  | 759 | -23 | 4 | 92 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 |  |  |  |  | 763 | -24 | 3 | 63 | 764 | -27 | 4 | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 758 | -27 | 6 | 92 |  |  |  |  | 763 | -27 | 5 | 99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 759 | -25 | 5 | 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  | 761 | -26 | 6 | 66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 761 | -22 | 3 | 63 | 765 | $-20$ | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  | 760 | -24 | 4 | 94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-18.7$ Std dev $=3.0$ MAX $=-12.0$ at 1610 GMT ON DAY 4 MIN $=-26.9$ at 310 GMt ON DAY 29
* theta (K) * MEAN $=275.20$
* PRESSURE (MB) * MEAN $=760.8$ STD DEV $=4.3$ MAX $=768.9$ at 720 GMT ON DAY 17 MIN $=748.6$ AT 1630 GMT ON DAY 6 * WINDS (M/S) * MEAN $=6.2$ STD DEV $=2.3$ RESULTANT $=5.6$ FROM 64. CONSTANCY $=0.89$ MAX $=13.5$ FROM 70. AT 2150 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $41.5 \%$ PRESSURE: $41.1 \%$ WINDS: $41.1 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ UNW NW NNW $\begin{array}{lllllllllllllllll} & 2 & 8 & 18 & 47 & 17 & 3 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 1\end{array}$

| FEB | 97 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 760 | -24 | 0 | 0 | 767 | -26 | 4 | 56 | 770 | -24 | 6 | 75 |
| 03 | 760 | -24 | 3 | 99 | 768 | -26 | 5 | 66 |  |  |  |  |
| 06 |  |  |  |  | 769 | -28 | 5 | 64 | 767 | -25 | 11 | 74 |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  | 764 | -25 | 13 | 99 |
| 15 |  |  |  |  |  |  |  |  | 762 | -25 | 12 | 99 |
| 18 |  |  |  |  |  |  |  |  | 760 | -25 | 11 | 82 |
| 21 | 765 | -24 | 6 | 49 | 771 | -25 | 6 | 82 | 760 | -26 | 11 | 85 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 756 | -26 | 13 | 78 | 751 | -28 | 6 | 82 | 759 | -27 | 3 | 53 |
| 03 | 755 | -27 | 12 | 81 | 750 | -29 | 7 | 81 | 760 | -26 | 4 | 56 |
| 06 | 755 | -28 | 9 | 77 |  |  |  |  | 761 | -26 | 5 | 63 |
| 09 | 755 | -27 | 8 | 73 |  |  |  |  |  |  |  |  |
| 12 | 754 | -27 | 9 | 73 |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  | 755 | -27 | 5 | 9 |  |  |  |  |
| 18 | 753 | -25 | 6 | 84 | 757 | -26 | 2 | 16 | 763 | -26 | 7 | 105 |
| 21 | 752 | -26 | 5 | 92 | 758 | -28 | 2 | 46 | 763 | -27 | 8 | 87 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 757 | -29 | 6 | 71 | 756 | -31 | 7 | 77 | 756 | -33 | 6 | 73 |
| 03 | 757 | -30 | 5 | 73 | 756 | -31 | 7 | 73 | 756 | -32 | 7 | 73 |
| 06 | 757 | -29 | 4 | 73 | 756 | -33 | 7 | 70 | 756 | -32 | 6 | 81 |
| 09 | 757 | -28 | 3 | 77 | 756 | -32 | 9 | 80 |  |  |  |  |
| 12 |  |  |  |  | 756 | -30 | 7 | 78 | 756 | $-30$ | 7 | 74 |
| 15 | 757 | -29 | 4 | 78 |  |  |  |  |  |  |  |  |
| 18 | 757 | -28 | 5 | 81 | 756 | -29 | 5 | 78 | 754 | -29 | 6 | 88 |
| 21 |  |  |  |  | 756 | -32 | 7 | 68 |  |  |  |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 749 | -29 | 5 | 42 | 751 | -32 | 5 | 82 | 747 | -33 | 8 | 84 |
| 03 |  |  |  |  | 751 | -34 | 7 | 81 |  |  |  |  |
| 06 | 749 | -30 | 4 | 61 | 750 | -35 | 6 | 77 |  |  |  |  |
| 09 |  |  |  |  | 750 | -33 | 6 | 73 |  |  |  |  |
| 12 | 751 | -32 | 6 | 60 |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  | 749 | -31 | 7 | 75 | 748 | -35 | 6 | 71 |
| 18 | 752 | -32 | 5 | 84 |  |  |  |  | 749 | -35 | 6 | 71 |
| 21 | 752 | -32 | 6 | 80 |  |  |  |  |  |  |  |  |



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-37.9$ Std dev $=5.7$ MAX $=-24.5$ at 1800 GMT ON DAY 12 min $=-49.2$ at 1800 GMt ON DAY 29
* theta (K) * MEAN $=256.12$
* PRESSURE (MB) * MEAN $=742.7$ STD DEV $=4.9$ MAX $=756.2$ at 1220 GMT ON DAY 5 MIN $=734.0$ AT 1200 GMT ON DAY 10
* WINDS (M/S) * MEAN $=9.6$ STD DEV $=2.8$ RESULTANT $=8.9$ fROM 84. CONSTANCY $=0.93$ MAX $=16.5$ FROM 74. AT 2050 GMT DAY 6
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $62.5 \%$ PRESSURE: $62.5 \%$ WINDS: $62.5 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 2 & 1 & 6 & 32 & 35 & 16 & 4 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV DD PP TT VV DD PP TT VV DD DAY 1 DAY 2 dAY 3

## PP TT VV DD

 DAY 4PP TT VV DD
DAY 5
PP TT WV DD DAY 6

PP TT VV DD DAY 7

DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

DAY 28

|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

HR PP TT W

$$
\text { DAY } 1
$$

PP TT VV DD PP TT VV DD DAY 3

PP TT VV DD
PP TT VV DD
PP TTVV DD DAY 6

PP TT VV DD DAY 7

DAY 10
DAY 11
DAY 12
DAY 13
DAY 14
00
03
06
09
12
15
18
21
DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

DAY 30

MONTHLY SUMMARY


* theta (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $99.2 \%$ PRESSURE: $99.2 \%$ WINDS: $99.2 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* TEMPERATURE ( $C$ ) * MEAN $=-6.1$ Std dev $=4.3$ MAX $=0.9$ at 510 GMt ON dAY 7 min $=-16.2$ at 1750 gmt on day 22
* theta (K) * MEAN $=268.48$
* PRESSURE (MB) * MEAN $=982.0$ STD DEV $=11.6$ MAX $=1003.1$ at 130 GMT ON DAY 1 MIN $=945.3$ AT 100 GMt ON DAY 19
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $30.4 \%$ PRESSURE: $30.4 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


## MAR 97



00
03
06
09
12
15
18
21 DAY 8

DAY 9
DAY 10
DAY 11
00
03
06
09
12
15
18
21 DAY 15

DAY 16
-8

DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

* TEMPERATURE ( $C$ ) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON dAY 0
* theta (K) * mean $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $99.6 \%$ PRESSURE: $100.0 \%$ UINDS: $100.0 \%$

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| WIND SPEED (M/S): | $0-2$ | $2-4$ | $4-6$ | $6-8$ | $8-10$ | $10-12$ | $12-14$ | $14-16$ | $16-18$ | $18-20$ | $20-25$ | $25-30$ | $30-35$ | $35-40$ | $40-45$ | $45-50$ | $50-55$ | $55-60$ | + |
| PERCENT: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

 $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV DD

|  | DAY |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 1 |  |  |  |
| 03 | 985 | -2 | 6 | 215 |
| 06 | 984 | -1 | 7 | 227 |
| 09 | 985 | -1 | 4 | 225 |
| 12 | 985 | -8 | 2 | 213 |
| 15 | 985 | -9 | 2 | 289 |
| 18 | 985 | -6 | 2 | 232 |
| 21 | 985 | -3 | 2 | 271 |


| DAY |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| 00 | 883 | -5 | 6 | 206 |
| 03 | 983 | -5 | 5 | 195 |
| 06 | 983 | -6 | 6 | 205 |
| 09 | 983 | -7 | 5 | 219 |
| 12 | 984 | -8 | 5 | 180 |
| 15 | 984 | -9 | 0 | 0 |
| 18 | 985 | -7 | 2 | 84 |
| 21 | 985 | -7 | 5 | 68 | DAY 15

$\begin{array}{lllll}00 & 983 & -4 & 11 & 216\end{array}$ $\begin{array}{lllll}03 & 983 & -4 & 6 & 219\end{array}$ $\begin{array}{lllll}06 & 984 & -7 & 7 & 184\end{array}$ $\begin{array}{lllll}09 & 985 & -8 & 3 & 205\end{array}$ $\begin{array}{lllll}12 & 986 & -8 & 3 & 153\end{array}$ $\begin{array}{lllll}15 & 987 & -10 & 6 & 185\end{array}$ $\begin{array}{lllll}18 & 988 & -11 & 5 & 194\end{array}$ $\begin{array}{llll}21 & 989 & -11 & 6180\end{array}$ DAY 22
$\begin{array}{lllll}00 & 991 & -4 & 5 & 219\end{array}$ $\begin{array}{lllll}03 & 992 & -3 & 4 & 201\end{array}$ $\begin{array}{lllll}06 & 993 & -4 & 1 & 265\end{array}$ $\begin{array}{lllll}09 & 993 & -7 & 4 & 217\end{array}$ $\begin{array}{llll}12 & 994 & -10 & 2\end{array} 254$ $\begin{array}{llll}15 & 995 & -13 & 2\end{array} 248$ $\begin{array}{llll}18 & 996 & -12 & 1251\end{array}$ $\begin{array}{lllll}21 & 996 & -7 & 1 & 261\end{array}$ DAY 29

$\begin{array}{lllll}00 & 989 & -8 & 7 & 232\end{array}$ $\begin{array}{lllll}03 & 988 & -8 & 8 & 220\end{array}$ $\begin{array}{lllll}06 & 988 & -8 & 7 & 240\end{array}$ $\begin{array}{llll}09 & 987 & -10 & 6 \\ 241\end{array}$ $\begin{array}{llll}12 & 988 & -11 & 6 \\ 239\end{array}$ $\begin{array}{lllll}15 & 987 & -9 & 8 & 216\end{array}$ | 18 | 988 | -9 | 7 |
| :--- | :--- | :--- | :--- | | 21 | 989 | -9 | 7 |
| :--- | :--- | :--- | :--- |


| PP | TT | VV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 986 | -3 | 6 | 191 | 985 | -3 | 7 | 210 |
| 986 | -3 | 4 | 222 | 984 | -4 | 9 | 209 |
| 986 | -3 | 4 | 215 | 983 | -4 | 6 | 216 |
| 986 | -4 | 4 | 213 | 981 | -6 | 5 | 236 |
| 986 | -5 | 2 | 195 | 981 | -7 | 4 | 237 |
| 986 | -6 | 3 | 223 | 980 | -8 | 5 | 250 |
| 986 | -4 | 2 | 189 | 980 | -7 | 5 | 223 |
| 985 | -3 | 3 | 198 | 980 | -5 | 6 | 217 |
|  | DAY | 9 |  |  | DAY | 10 |  |


| PP TT WV DD |  |  |
| :---: | :---: | :---: |
| DAY | 4 |  |
| 980 | 4 | 6 |


| 980 | -4 | 6 | 209 |
| :---: | :---: | :---: | :---: |
| 980 | -4 | 5 | 203 |
| 980 | -3 | 5 | 212 |
| 982 | -6 | 4 | 199 |
| 982 | -6 | 7 | 215 |
| 983 | -6 | 4 | 185 |
| 983 | -5 | 4 | 208 |
| 983 | -3 | 3 | 168 |
| DAY | 11 |  |  |

983
983
983
984
985
985
986
986

## $\begin{array}{llll}989 & -7 & 7191\end{array}$

$\begin{array}{llll}989 & -7 & 6 & 191\end{array}$
$\begin{array}{llll}990 & -8 & 4 & 208\end{array}$
$990-8 \quad 5215$
$\begin{array}{llll}989 & -8 & 4 & 205\end{array}$
$\begin{array}{llll}989 & -8 & 5 & 201\end{array}$
$\begin{array}{llll}990 & -7 & 3 & 203\end{array}$

$$
\text { DAY } 18
$$

| 993 | -7 | 3 | 216 |
| :--- | :--- | :--- | :--- |

$993-5 \quad 2227$
$\begin{array}{llll}994 & -5 & 217\end{array}$
$994 \quad-9 \quad 2232$
995-13 2213
$995-13 \quad 2192$
$\begin{array}{llll}995 & -11 & 3 & 195\end{array}$
$\begin{array}{llll}995 & -8 & 2 & 198\end{array}$ DAY 25

| 988 | -8 | 9 |
| :--- | :--- | :--- |

$\begin{array}{llll}987 & -7 & 8 & 194\end{array}$
$\begin{array}{llll}986 & -8 & 9 & 198\end{array}$
$\begin{array}{llll}985 & -9 & 8 & 206\end{array}$
985 -10 3234
$\begin{array}{llll}984 & -12 & 4 & 233\end{array}$
983-11 2209
$\begin{array}{lll}983 & -8 & 1217\end{array}$

PP TT VV DD DAY 7
$\begin{array}{llll}985 & -3 & 3 & 49\end{array}$
$\begin{array}{llll}984 & -1 & 3 & 5\end{array}$
$\begin{array}{llll}983 & -3 & 3 & 158\end{array}$
$\begin{array}{llll}983 & -5 & 4 & 160\end{array}$
$\begin{array}{llll}983 & -6 & 4 & 144\end{array}$
$\begin{array}{llll}982 & -6 & 2165\end{array}$
$\begin{array}{llll}982 & -6 & 4 & 187\end{array}$
$\begin{array}{llll}982 & -5 & 4 & 189\end{array}$

## DAY 14

$\begin{array}{llll}987 & -8 & 3 & 243\end{array}$
$\begin{array}{llll}987 & -7 & 3 & 260\end{array}$
$\begin{array}{llll}985 & -8 & 3 & 271\end{array}$
$\begin{array}{llll}983 & -8 & 3 & 285\end{array}$
$\begin{array}{lll}982 & -5 & 7225\end{array}$
$\begin{array}{llll}982 & -7 & 7 & 239\end{array}$
$\begin{array}{llll}983 & -6 & 9237\end{array}$
$\begin{array}{llll}982 & -4 & 8 & 219\end{array}$

$$
\text { DAY } 21
$$

$991 \quad-6 \quad 7209$
$991 \quad-6 \quad 7215$
$990-6 \quad 5229$
$\begin{array}{llll}990 & -7 & 4 & 255\end{array}$
$990 \quad-6 \quad 4 \quad 195$
$\begin{array}{llll}990 & -7 & 4 & 188\end{array}$
$\begin{array}{llll}990 & -9 & 3 & 194\end{array}$
$\begin{array}{llll}991 & -5 & 3 & 247\end{array}$

## DAY 28

$\begin{array}{llll}991 & -7 & 1250\end{array}$
$\begin{array}{llll}991 & -7 & 0 & 0\end{array}$
$\begin{array}{llll}990 & -8 & 1 & 316\end{array}$
990 $-11 \quad 0 \quad 0$
$\begin{array}{llll}990 & -7 & 4 & 226\end{array}$
989-12 3257
$\begin{array}{llll}989 & -8 & 4 & 267\end{array}$
$\begin{array}{lll}989 & -9 & 7215\end{array}$

* TEMPERATURE (C) * MEAN $=-7.1$ STD DEV $=3.1$ MAX $=-0.1$ AT 320 GMT ON DAY 7 MIN $=-17.4$ AT 1450 GMT ON.DAY 31
* THETA (K) * MEAN $=266.96$
* PRESSURE (MB) * MEAN $=988.4$ STD DEV $=4.3$ MAX $=997.8$ AT 1240 GMT ON DAY 31 MIN $=979.4$ AT 1600 GMT ON DAY 3 * WINDS (M/S) * MEAN $=3.4$ STD DEV $=2.3$ RESULTANT $=2.5$ FROM 207. CONSTANCY $=0.72$ MAX $=11.9$ FROM 209. AT 440 GMT DAY 3 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

FEB 97
HR PP TT VV DD

|  | DAY |  |  | 1 |
| ---: | ---: | ---: | ---: | ---: |
| 00 | 998 | -10 | 1 | 244 |
| 03 | 997 | -8 | 2 | 233 |
| 06 | 997 | -9 | 3 | 223 |
| 09 | 997 | -13 | 3 | 253 |
| 12 | 997 | -16 | 3 | 237 |
| 15 | 997 | -19 | 2 | 227 |
| 18 |  |  |  |  |
| 21 | 998 | -12 | 2 | 241 |
|  | DAY |  |  |  |
|  | 8 | 8 |  |  |

$\begin{array}{lllll}00 & 986 & -13 & 4 & 95\end{array}$
$\begin{array}{lllll}03 & 985 & -11 & 4 & 94\end{array}$
$\begin{array}{lllll}06 & 986 & -11 & 5 & 160\end{array}$
$\begin{array}{lllll}09 & 987 & -12 & 7 & 158\end{array}$
$\begin{array}{lllll}12 & 988 & -14 & 3 & 184\end{array}$
$\begin{array}{lllll}15 & 988 & -14 & 3 & 156\end{array}$
$\begin{array}{llll}18 & 989 & -13 & 2\end{array} 153$
$\begin{array}{lllll}21 & 990 & -11 & 0 & 0\end{array}$ DAY 15
$\begin{array}{lllll}00 & 987 & -16 & 5 & 192\end{array}$
$\begin{array}{llll}03 & 987 & -17 & 7 \\ 206\end{array}$
$\begin{array}{lllll}06 & 988 & -18 & 3 & 189\end{array}$
$\begin{array}{lllll}09 & 988 & -21 & 2 & 35\end{array}$
$\begin{array}{llll}12 & 988 & -25 & 1324\end{array}$
$\begin{array}{llll}15 & 989 & -24 & 2\end{array}$
$\begin{array}{lllll}18 & 990 & -23 & 0 & 0\end{array}$
$\begin{array}{lllll}21 & 990 & -20 & 1 & 22\end{array}$ DAY 22
$\begin{array}{lllll}00 & 983 & -18 & 8 & 209\end{array}$
$\begin{array}{lllll}03 & 982 & -18 & 8 & 205\end{array}$
$\begin{array}{llll}06 & 983 & -20 & 9\end{array}$
$\begin{array}{lllll}09 & 983 & -22 & 3 & 210\end{array}$
$12 \quad 984-26 \quad 2206$
$\begin{array}{llll}15 & 984 & -26 & 212\end{array}$
$\begin{array}{lllll}18 & 985 & -23 & 1 & 196\end{array}$
$\begin{array}{llll}21 & 986 & -20 & 3\end{array} 198$

PP TT VV DD DAY 2
$\begin{array}{lll}998 & -8 & 217\end{array}$
$\begin{array}{llll}998 & -7 & 3 & 209\end{array}$
$\begin{array}{llll}998 & -6 & 3 & 208\end{array}$
$999-11 \quad 2253$

999-14 2212
1000-13 1255
1000-10 2195 DAY 9
$\begin{array}{llll}990 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}989 & -7 & 0 & 0\end{array}$
989-10 1 1-9
988-16 229
988-20 230
987-20 256
$\begin{array}{llll}987 & -17 & 2 & 59\end{array}$
988-12 247 DAY 16
990-17 29
$990-13 \quad 0 \quad 0$
990-13 00
$\begin{array}{llll}991 & -14 & 0 & 0\end{array}$
991-17 2175
$\begin{array}{llll}991 & -17 & 160\end{array}$
$\begin{array}{llll}991 & -17 & 2143\end{array}$
$\begin{array}{llll}991 & -16 \quad 3158\end{array}$

## DAY 23

987-19 2135
987-19 3111
986-19 4101
986-18 $8 \quad 90$
985-18 4123
984-18 2132
984-18 166
984-18 0


PP TT VV DD PP TT VV DD DAY 4

| 995 | -5 | 0 | 0 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}994 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}993 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}993 & -9 & 1 & 92\end{array}$
$\begin{array}{llll}992 & -15 & 2 & 15\end{array}$
$\begin{array}{llllllll}992 & -17 & 2 & 23 & 992 & -18 & 2 & 185\end{array}$
$\begin{array}{llllllll}991 & -15 & 2 & 28 & 992 & -15 & 2 & 181\end{array}$
$\begin{array}{llllllll}991 & -11 & 3 & 19 & 992 & -8 & 5 & 213\end{array}$ DAY 12
995-17 7189
$\begin{array}{llll}994 & -15 & 5 & 180\end{array}$
993-16 3225
992-15 5203
991-15 3203
990-16 1310
989-17 2232
988-12 0 DAY 19
990-18 7195
989-19 8213
990 -20 12210
$990-2012201$
$989-1913205$
988-19 14208
986-18 20198
$\begin{array}{llll}985 & -17 & 18 \\ 199\end{array}$ DAY 26
$\begin{array}{llll}996 & -22 & 8185\end{array}$
996-20 10199
996 -19 11196
996 -18 13206
996-18 16208
996 -18 15206
995-18 19194
994-18 15216

PP TT WV DD DAY 6
992-10 3187
$\begin{array}{llll}992 & -8 & 1 & 126\end{array}$
991-10 1127
990-13 $2 \quad 82$
990-16 0
990-16 1119
991-15 2133
991-11 2182 DAY 13
987-13 4261
985-14 3230
984-15 2291
983-18 3260
982-24 2226
983-26 5247
983-22 2223
982-19 4187
DAY 20
983-18 24205
982-17 22209
981-17 25210
982-17 26209
982-16 18208
981-16 18215
982-16 19213
$983-1616212$ DAY 27
993-19 17208
991 -17 17205
990-17 16208
$989-1714217$
989-17 13210
987-18 14201
986-19 11212
984-20 14195

PP TT VV DD DAY 7
991-12 4172
990-10 2175
$990-11 \quad 2158$
989-16 2106
$\begin{array}{llll}988 & -20 & 2 & 95\end{array}$
$\begin{array}{llll}987 & -20 & 3 & 74\end{array}$
$\begin{array}{llll}986 & -20 & 4 & 73\end{array}$
986-17 $4 \quad 91$ DAY 14
981-17-5 177
$\begin{array}{llll}981 & -16 & 3 & 205\end{array}$
981-17 2167
982-18 2240
983-18 4180
984-19 5206
985-19 9 188
986-19 8199 DAY 21
983-16 18206
983-16 14216
983 -16 15212
983-16 11212
983-17 11209
983-18 9203
$983-20 \quad 8210$
982-19 7196
DAY 28
983-20 11195
981-19 11195
$980-21 \quad 9192$
$\begin{array}{llll}978 & -24 & 6 & 187\end{array}$
$\begin{array}{llll}978 & -27 & 3 & 229\end{array}$
$977-26 \quad 4219$
977-29 3219
$977-27 \quad 3232$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-16.5$ Std dev $=4.7$ max $=-3.4$ at 330 gmt on day 4 min $=-29.2$ at 1700 GMt on day 28
* theta (K) * MEAN $=257.46$
* PRESSURE (MB) * MEAN $=989.3$ STD DEV $=5.1$ MAX $=1000.1$ at 2140 GMT ON DAY 2 MIN $=976.3$ at 1950 GMT ON DAY 28
* WINDS (M/S) * MEAN $=5.3$ STD DEV $=5.3$ RESULTANT $=4.4$ FROM 197. CONSTANCY $=0.82$ MAX $=29.2$ FROM 210. AT 200 GMT DAY 20
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 \\ \text { PERCENT: } & 27 & 32 & 12 & 10 & 3 & 4 & 2 & 4 & 2 & 3 & 1 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW $\operatorname{SW}$ WSW W WNW NW NNW
PERCENT

MAR 97
HR PP TT VV DD PP TT VV DD PP TT VV DD
$\begin{array}{ll} & \text { DAY } 1\end{array}$

| 00 | 977 | -25 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 977 & -25 & 4 & 213\end{array}$
$\begin{array}{lllll}06 & 978 & -24 & 3 & 241\end{array}$
$\begin{array}{lllll}09 & 978 & -24 & 3 & 184\end{array}$
$\begin{array}{lllll}12 & 979 & -24 & 3 & 196\end{array}$
$\begin{array}{llll}15 & 979 & -25 & 4 \\ 181\end{array}$
$\begin{array}{llll}18 & 980 & -25 & 5 \\ 203\end{array}$
$\begin{array}{llll}21 & 981 & -23 & 6 \\ 202\end{array}$
DAY 8
$\begin{array}{lllll}00 & 978 & -31 & 5 & 195\end{array}$
$\begin{array}{lllll}03 & 978 & -29 & 3 & 188\end{array}$
$\begin{array}{lllll}06 & 979 & -27 & 3 & 223\end{array}$
$09 \quad 979-31 \quad 2313$
$\begin{array}{lllll}12 & 980 & -33 & 2 & 143\end{array}$
$\begin{array}{lllll}15 & 980 & -36 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 982 & -32 & 4 & 57\end{array}$
$\begin{array}{llll}21 & 982 & -26 & 4\end{array}$
DAY 15
$\begin{array}{llll}00 & 982 & -22 & 8 \\ 210\end{array}$
$\begin{array}{llll}03 & 983 & -21 & 319\end{array}$
$\begin{array}{lllll}06 & 984 & -22 & 7 & 239\end{array}$
$\begin{array}{lllll}09 & 985 & -27 & 8 & 215\end{array}$
$\begin{array}{llll}12 & 985 & -29 & 8 \\ 212\end{array}$
$\begin{array}{llll}15 & 986 & -29 & 8 \\ 213\end{array}$
$\begin{array}{llll}18 & 986 & -29 & 5 \\ 215\end{array}$
$\begin{array}{lll}21 & 985-28 & 1217\end{array}$
DAY 22
$\begin{array}{lllll}00 & 984 & -34 & 2329\end{array}$
$\begin{array}{lllll}03 & 985 & -32 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 986 & -32 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 986 & -33 & 0 & 0\end{array}$
$\begin{array}{llll}12 & 987 & -36 & 0\end{array} 0$
$\begin{array}{lllll}15 & 987 & -34 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 988 & -31 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 988 & -30 & 0\end{array}$
DAY 29
$\begin{array}{lllll}00 & 960 & -33 & 1 & 1\end{array}$
$\begin{array}{lllll}03 & 958 & -29 & 2 & 16\end{array}$
$\begin{array}{lllll}06 & 957 & -36 & 2 & 330\end{array}$
$\begin{array}{lllll}09 & 957 & -39 & 2 & 348\end{array}$
$\begin{array}{lllll}12 & 957 & -39 & 3 & 354\end{array}$
$\begin{array}{lllll}15 & 956 & -32 & 4 & 2\end{array}$
$\begin{array}{lllll}18 & 955 & -29 & 5 & 19\end{array}$
$\begin{array}{llllllll}21 & 957 & -28 & 4 & 33 & 968 & -24 & 4\end{array}$

DAY 2
982-23 7203
983-22 8206
$985-21 \quad 6223$
986-20 8195
$987-21 \quad 7216$
$989-25 \quad 5237$
$991-26 \quad 4225$
991 -26 1189
DAY 9
983-24 $4 \quad 50$
$\begin{array}{llll}984 & -23 & 5 & 77\end{array}$
$\begin{array}{llll}984 & -21 & 4 & 99\end{array}$
$\begin{array}{llll}984 & -22 & 6130\end{array}$
$\begin{array}{llll}984 & -23 & 8 & 143\end{array}$
984-22 8178
$983-2310177$
983 -22 14177 DAY 16
$\begin{array}{llll}984 & -28 & 1 & 81\end{array}$ 983-27 246 $\begin{array}{llll}982 & -29 & 3 & 21\end{array}$ $\begin{array}{llll}981 & -32 & 22\end{array}$ $\begin{array}{llll}980 & -32 & 2 & 46\end{array}$ $\begin{array}{llll}979 & -33 & 2 & 19\end{array}$ $\begin{array}{lllll}979 & -29 & 3 & 127\end{array}$ 980-24 25 DAY 23
$989-30 \quad 2201$
990 -29 2195
$990-27 \quad 3233$ $\begin{array}{lll}991 & -26 \quad 4209\end{array}$ $\begin{array}{llll}991 & -27 & 315\end{array}$ 992-25 4232 $992-22 \quad 4215$ 992-22 2210 DAY 30
962-33 2102 $\begin{array}{llll}966 & -30 & 3 & 198\end{array}$ $\begin{array}{llll}966 & -32 & 0 & 0\end{array}$ 966-33 2360 $966-26 \quad 4322$ 966-21 8223
968-25 7248
968-24 4258

DAY 3
991-23 0 0
$\begin{array}{llll}990 & -22 & 2 & 42\end{array}$
$\begin{array}{llll}988 & -23 & 4 & 40\end{array}$
$\begin{array}{llll}987 & -26 & 2 & 49\end{array}$
$\begin{array}{llll}986 & -27 & 2 & 37\end{array}$
$\begin{array}{llll}985 & -27 & 1 & 136\end{array}$
$\begin{array}{llll}984 & -25 & 2 & 99\end{array}$
$\begin{array}{llll}984 & -24 & 2 & 99\end{array}$ DAY 10
982-22 14185
$981-2212195$
$980-2210198$
$979-24 \quad 9202$
$979-26 \quad 7225$
978 -29 5227
$\begin{array}{llll}978 & -31 & 7 & 205\end{array}$
977 -29 4199 DAY 17
980-29 2234
$\begin{array}{llll}980 & -24 & 5 & 174\end{array}$
$979-231164$
$980-24 \quad 3265$
980-27 1248
$\begin{array}{llll}981 & -25 & 0 & 0\end{array}$
$\begin{array}{llll}982 & -26 & 219\end{array}$
983 -27 3212 DAY 24
992-21 1254
993-20 0
993-20 0
$\begin{array}{llll}993 & -22 & 2 & 68\end{array}$
$\begin{array}{llll}994 & -22 & 2 & 63\end{array}$
$\begin{array}{llll}994 & -26 & 2 & 50\end{array}$
$\begin{array}{llll}995 & -30 & 2 & 46\end{array}$
$\begin{array}{llll}996 & -30 & 3 & 57\end{array}$

## DAY 31

968-26 5282
967-25 4326
968 -23 4313
970-18 $10 \quad 217$
975 -27 12219
$\begin{array}{llll}975 & -25 & 13 & 217\end{array}$
975-24 13216
975-26 5223

|  |  |  | DD |  |  | VV |  |  |  | DD |  | IT | V DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 983 | -23 | 1 | 196 | 978 | -23 | 3247 | 978 | 23 | 8 | 191 | 978 | -26 | 3329 |
| 982 | -22 | 2 | 177 | 978 | -22 | 3251 | 978 | 21 |  | 191 | 977 | 20 | 326 |
|  | -24 | 1 | 215 | 977 | -24 | 3250 | 978 | -21 | 8 | 196 | 976 | -21 | 1233 |
| 980 | -27 |  | 208 | 977 | -27 | 4237 | 979 | -21 | 5 | 185 | 975 | 20 | 5243 |
| 979 | -30 |  | 268 | 977 | -28 | 5239 | 979 | -21 | 3 | 202 | 976 | 24 | 2208 |
| 978 | -30 | 2 | 281 | 977 | 26 | 6195 | 979 | -27 |  | 232 | 976 | -26 | 5201 |
| 977 | -26 |  | 201 | 978 | -26 | 7198 | 979 | -30 | 0 | 0 | 976 | -32 | 3209 |
| 977 | -27 | 6 | 161 | 978 | -25 | 9189 | 979 | -27 | 0 | 0 | 977 | -31 | 4210 |
| DAY 11 |  |  |  | 12 |  |  | DAY 13 |  |  |  | DAY 14 |  |  |
|  | -29 |  | 22 | 970 | 33 | 24 | 2 | -31 | 2 | 64 | 970 | -23 | 6 |
| 974 | -26 | 6 | 215 | 969 | -29 | 1208 | 962 | -28 | 1 | 42 | 970 | -22 | 6116 |
| 973 | -27 | $4$ | 209 | 968 | -31 | 282 | 963 | -30 |  | 360 | 971 | -21 | 398 |
| 972 | -31 |  | 234 | 966 | -32 | 2274 | 963 | -33 | 2 | 66 | 972 | -21 | 1 |
| 972 | -35 |  | 241 | 965 | -36 | 0 | 965 | 35 | 2 | 88 | 974 | -20 | 2 |
| 971 | -35 |  | 232 | 963 | -35 | 2347 | 966 | -30 | 2 | 74 | 976 | -22 | 4 |
| 971 | -36 |  | 223 | 962 | -34 | 291 | 967 | -24 | 4 | 129 | 978 | -23 | 8 |
| 971 | -36 | 3 | 265 | 962 | -31 | 330 | 968 | -23 | 51 | 115 | 980 | -24 | 9215 |
| 18 |  |  |  | DAY 19 |  |  | DAY 20 |  |  |  | day |  |  |
| 984 | -25 | 3 | 168 | 988 | -26 | 4188 | 987 | -34 |  | 223 | 983 | -37 | 1236 |
| 985 | -25 | 6 | 147 | 988 | -26 | 177 | 987 | -35 |  | 274 | 983 | -36 | 0 |
| 987 | -26 |  | 194 | 988 | -27 | 4168 | 987 | -37 |  | 272 | 982 | -39 | 2 |
| 989 | -26 | 6 | 188 | 989 | -28 | 3195 | 986 | -39 |  | 293 | 981 | -38 | 3317 |
| 989 | -32 | 0 | 0 | 988 | -31 | 2196 | 984 | -40 | 0 | 0 | 981 | -38 | 2310 |
| 989 | -32 |  | 284 | 988 | -35 | 0 | 98 | -39 | 1 | 56 | 981 | -37 | 33 |
| 988 | -28 |  | 237 | 988 | -36 | 225 | 983 | -42 |  | 191 | 982 | -36 | 3343 |
| 989 | -27 |  | 195 | 988 | -35 | 3.2 | 983 | -39 |  | 247 | 983 | -35 | 1313 |
| Y 25 |  |  |  | day 26 |  |  | day 27 |  |  |  | DAY 28 |  |  |
| 997 | -28 | 1 | 54 | 997 | -26 | 9217 | 988 | -31 | 0 | 0 | 978 | -33 | 520 |
| 998 | -27 | 1 | 21 | 996 | -26 | 8208 | 986 | -31 |  | 101 | 976 | -3 | 720 |
| 999 | -29 | 1 | 82 | 995 | -27 | 210 | 85 | -30 |  | 111 | 974 | -32 | 5208 |
| 999 | -34 | 0 | 0 | 994 | -27 | 20 | 984 | -29 | 0 | 0 | 972 | -33 | 4 |
| 1000 | 30 |  | 147 | 994 | -31 | 4222 | 983 | -30 |  | 215 | 970 | -37 | 1234 |
| 9 | -27 |  | 136 | 992 | 31 | 4226 | 981 | -31 |  | 209 | 968 |  | 2265 |
| 999 | -24 |  | 142 | 991 | -35 | 2262 | 980 | -35 |  | 205 | 965 | -37 | 2317 |
| 998 | -25 |  | 182 | 990 | -35 | 2255 | 980 | -36 |  | 223 | 962 | -33 | 2315 |

978 -26 3329
977 -20 4326
976 -21 1233
-20 5243
76-24 2208
$\begin{array}{llll}976 & -32 & 3 & 209\end{array}$
977 -31 4210 DAY 14
970-23 6111
$\begin{array}{llll}970 & -22 & 6 & 116\end{array}$
$\begin{array}{llll}971 & -21 & 3 & 98\end{array}$
972-21 1225
$974-20 \quad 2206$
976 -22 4198
978-23 8188
-24 92

83-37 1236
983-36 00
$\begin{array}{llll}982 & -39 & 2 & 351\end{array}$
$\begin{array}{llll}981 & -38 & 3 & 317\end{array}$
$\begin{array}{llll}981 & -38 & 2 & 310\end{array}$
$\begin{array}{llll}81 & -37 & 3 & 345\end{array}$

| 982 | -36 | 3 | 343 |
| :--- | :--- | :--- | :--- |
|  | -35 | 1 | 313 |

DAY 28

| 978 | -33 | 5 |
| :--- | :--- | :--- |

$976-327203$
$\begin{array}{llll}974 & -32 & 5 & 208\end{array}$
972 -33 4230
$\begin{array}{llll}970 & -37 & 1 & 234\end{array}$
$\begin{array}{llll}968 & -38 & 2 & 265\end{array}$
$\begin{array}{llll}962 & -33 & 2 & 315\end{array}$

* temperature ( $C$ ) * mean $=-28.1$ std dev $=5.1$ max $=-16.6$ at 840 GMt on day 31 min $=-41.9$ at 1840 GMt on day 20
* theta (K) * MEAN $=246.51$
* PRESSURE (MB) * MEAN $=980.1$ STD DEV $=9.4$ MAX $=999.8$ AT 1020 GMT ON DAY 25 MIN $=954.4$ AT 1820 GMT ON DAY 29
* WINDS (M/S) * MEAN $=3.5$ STD DEV $=2.8$ RESULTANT $=2.2$ fROM 206. CONSTANCY $=0.61$ maX $=17.0$ fROM 222. AT 1440 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 PERCENT

| 3 | 3 | 6 | 4 | 4 | 2 | 4 | 3 | 9 | 22 | 19 | 8 | 4 | 2 | 4 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

APR 97
HR PP TT VV DD
$\begin{array}{llll} & & \text { DAY } & 1 \\ 00 & 974 & -28 & 3\end{array}$ $\begin{array}{lllll}03 & 973 & -30 & 2 & 182\end{array}$ $\begin{array}{lllll}06 & 970 & -35 & 2 & 64\end{array}$ $\begin{array}{lllll}09 & 970 & -34 & 1 & 66\end{array}$ $\begin{array}{lllll}12 & 970 & -36 & 2 & 182\end{array}$ $\begin{array}{lllll}15 & 972 & -38 & 3 & 208\end{array}$ $\begin{array}{lllll}18 & 972 & -35 & 0 & 0\end{array}$
$\begin{array}{lllll}21 & 974 & -30 & 1 & 247\end{array}$ DAY 8
00 974-19 0
$\begin{array}{lllll}03 & 976 & -24 & 3 & 182\end{array}$
$\begin{array}{llll}06 & 977 & -20 & 4\end{array} 187$
$\begin{array}{lllll}09 & 979 & -21 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 981 & -25 & 4 & 232\end{array}$
$\begin{array}{llll}15 & 983 & -22 & 625\end{array}$
$\begin{array}{llll}18 & 985 & -24 & 7 \\ 216\end{array}$
$\begin{array}{lllll}21 & 987 & -23 & 10 & 199\end{array}$ DAY 15
$\begin{array}{lllll}00 & 980 & -28 & 10 & 201\end{array}$
$\begin{array}{lllll}03 & 982 & -31 & 9 & 194\end{array}$
$\begin{array}{lllll}06 & 984 & -30 & 5 & 202\end{array}$
$\begin{array}{llll}09 & 985 & -30 & 7217\end{array}$
$\begin{array}{llll}12 & 987 & -29 & 5 \\ 226\end{array}$
$\begin{array}{lllll}15 & 988 & -28 & 8 & 227\end{array}$
$\begin{array}{llll}18 & 989 & -31 & 7254\end{array}$
$21 \quad 990-2712246$ DAY 22
$\begin{array}{llll}00 & 998 & -30 & 4 \\ 123\end{array}$
$\begin{array}{lllll}03 & 998 & -31 & 4 & 158\end{array}$
$\begin{array}{lllll}06 & 999 & -32 & 2 & 237\end{array}$
$\begin{array}{lllll}09 & 999 & -30 & 8 & 160\end{array}$
$\begin{array}{lllll}12 & 999 & -36 & 1 & 170\end{array}$
$\begin{array}{lllll}15 & 999 & -40 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 998 & -41 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 997 & -44 & 180\end{array}$ DAY 29
$\begin{array}{lllll}00 & 980 & -37 & 3 & 165\end{array}$
$\begin{array}{lllll}03 & 980 & -41 & 3 & 189\end{array}$
$\begin{array}{lllll}06 & 980 & -42 & 3 & 184\end{array}$
$\begin{array}{lllll}09 & 980 & -39 & 3 & 210\end{array}$
$\begin{array}{llll}12 & 981 & -39 & 2 \\ 243\end{array}$
$\begin{array}{lllll}15 & 982 & -37 & 4 & 244\end{array}$
$\begin{array}{lllll}18 & 982 & -41 & 270\end{array}$
$\begin{array}{llll}21 & 982-42 \quad 3229\end{array}$

| PP | TT VV | DD | PP | TT VV | DD |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 975 | -25 | 6 | 203 | 983 | -32 | 2 | 57 |


| PP | TT | VV | DD |
| ---: | ---: | ---: | ---: |
| DAY | 4 |  |  |
| 989 | -35 | 4 | 215 |
| 988 | -35 | 2 | 189 |
| 988 | -36 | 4 | 196 |
| 987 | -41 | 1 | 158 |
| 986 | -34 | 0 | 0 |
| 985 | -34 | 1 | 82 |
| 984 | -32 | 2 | 338 |
| 983 | -25 | 2 | 247 |



$$
\text { DAY } 19
$$

$$
\begin{array}{llll}
1014 & -38 & 1 & 32
\end{array}
$$

$$
\begin{array}{llllllll}
1014 & -39 & 0 & 0 & 1007 & -36 & 0 & 0
\end{array}
$$

$$
\begin{array}{llllllll}
1013 & -35 & 0 & 0 & 1006 & -37 & 1 & 232
\end{array}
$$

$$
\begin{array}{llllllll}
1013 & -34 & 0 & 0 & 1005 & -36 & 0 & 0
\end{array}
$$

$$
\begin{array}{llllllll}
1012 & -38 & 0 & 0 & 1005 & -38 & 1 & 210
\end{array}
$$

$$
\begin{array}{llllllll}
1011 & -37 & 0 & 0 & 1004 & -36 & 1 & 244
\end{array}
$$

$$
\begin{array}{llllllll}
1010 & -36 & 0 & 0 & 1004 & -38 & 2 & 270
\end{array}
$$

$$
\begin{array}{llllllll}
1009 & -35 & 0 & 0 & 1003 & -38 & 1 & 272
\end{array}
$$

$$
\text { DAY } 26
$$

$$
\begin{array}{llll}
980 & -42 & 3 & 28
\end{array}
$$

$$
977-42 \quad 3358
$$

$$
\begin{array}{llll}
976 & -43 & 2 & 40
\end{array}
$$

$$
\begin{array}{llll}
976 & -47 & 2 & 26
\end{array}
$$

$$
\begin{array}{llll}
977 & -48 & 2 & 81
\end{array}
$$

$$
\begin{array}{llll}
979 & -48 & 2 & 181
\end{array}
$$

$$
979-42 \quad 3194
$$

$$
979-37 \quad 12 \quad 203
$$

PP TT VV DD DAY 7
976-34 0
$\begin{array}{llll}974 & -31 & 1 & 56\end{array}$
$\begin{array}{llll}973 & -29 & 31\end{array}$
$971-26 \quad 4358$
$\begin{array}{lll}970 & -25 & 2\end{array}$
$970-21 \quad 4348$
970-18 4360
971-18 5358
DAY 14
$\begin{array}{lll}979 & -32 \quad 5 & 219\end{array}$

| 979 | -33 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}979 & -31 & 6229\end{array}$
$\begin{array}{llll}978 & -32 & 7250\end{array}$
$\begin{array}{llll}978 & -34 & 3 & 261\end{array}$
$\begin{array}{llll}977 & -30 & 5 & 188\end{array}$
$\begin{array}{llll}978 & -30 & 7229\end{array}$
$\begin{array}{llll}979 & -31 & 7229\end{array}$
DAY 21
1003-37 0 0
1002-36 0
1002-35 0
1002-33 0
$\begin{array}{llll}1002 & -30 \quad 2 & 85\end{array}$
$\begin{array}{llll}1001 & -31 & 4 & 98\end{array}$
1000-32 3116
$999 \quad-30 \quad 5 \quad 126$
DAY 28
$\begin{array}{llll}981 & -37 & 2320\end{array}$
$\begin{array}{llll}981 & -37 & 4 & 316\end{array}$
$\begin{array}{llll}982 & -32 & 5 & 305\end{array}$
$\begin{array}{llll}982 & -31 & 5 & 296\end{array}$
982-25 8234
$\begin{array}{llll}983 & -31 & 9 & 194\end{array}$
$\begin{array}{llll}983 & -32 & 6 & 223\end{array}$
$\begin{array}{llll}982 & -32 & 3171\end{array}$

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-34.0$ StD deV $=7.0$ mAX $=-10.0$ AT 1820 GMT ON DAY 5 MIN $=-49.0$ AT 1700 GMT ON DAY 24
* theta (K) * MEAN $=240.09$
* PRESSURE (MB) * MEAN $=986.0$ STD DEV $=11.1$ MAX $=1013.7$ at 2330 GMT ON DAY 18 MIN $=958.6$ AT 2000 GMT ON DAY 5
* WINDS (M/S) * MEAN $=3.7$ STD DEV $=3.5$ RESULTANT $=2.3$ fROM 221. CONSTANCY $=0.64$ MAX $=25.1$ FROM 227. AT 1950 GMT DAY 5 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 38 & 28 & 13 & 10 & 5 & & 3 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & S S W & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{llllllllllllllllll}\text { PERCENT } & 7 & 3 & 2 & 2 & 2 & 1 & 3 & 3 & 11 & 18 & 20 & 9 & 5 & 2 & 5 & 6\end{array}$

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 984 & -46 & 2 & 233\end{array}$

| 03 | 983 | -42 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}06 & 982 & -35 & 9 & 189\end{array}$
$09 \quad 981$-31 11209
$\begin{array}{llll}12 & 979 & -27 & 16 \\ 209\end{array}$
$\begin{array}{llll}15 & 978 & -26 & 15 \\ 220\end{array}$
$\begin{array}{llll}18 & 978 & -33 & 16 \\ 217\end{array}$
$\begin{array}{llll}21 & 976 & -35 & 19 \\ 217\end{array}$ DAY 8
$00 \quad 982$-29 9219
$\begin{array}{lllll}03 & 983 & -32 & 6 & 215\end{array}$

| 06 | 983 | -36 | 3 |
| :--- | :--- | :--- | :--- |

$09 \quad 982-35 \quad 3 \quad 206$
$\begin{array}{llll}12 & 982 & -38 & 3 \\ 274\end{array}$
$\begin{array}{lllll}15 & 981 & -40 & 1 & 334\end{array}$
$\begin{array}{lllll}18 & 979 & -39 & 3 & 49\end{array}$
$\begin{array}{lllll}21 & 977 & -39 & 2 & 78\end{array}$ DAY 15
$00 \quad 983-35 \quad 8209$ $\begin{array}{lllll}03 & 984 & -44 & 14 & 206\end{array}$ $\begin{array}{lllll}06 & 984 & -43 & 12 & 215\end{array}$ $\begin{array}{lllll}09 & 981 & -39 & 17 & 216\end{array}$ $\begin{array}{lllll}12 & 977 & -36 & 18 & 219\end{array}$ $\begin{array}{lllll}15 & 972 & -29 & 24 & 222\end{array}$ $\begin{array}{llll}18 & 967 & -22 & 19 \\ 226\end{array}$
$21 \quad 964-2123216$ DAY 22
$00 \quad 979$ - 38
$\begin{array}{lllll}03 & 978 & -37 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 977 & -32 & 3 & 191\end{array}$
$09 \quad 976-28 \quad 3 \quad 198$
$\begin{array}{llll}12 & 976 & -29 & 7 \\ 209\end{array}$
$\begin{array}{lllll}15 & 974 & -31 & 7 & 194\end{array}$
$\begin{array}{lllll}18 & 974 & -34 & 12 & 209\end{array}$
$\begin{array}{lllll}21 & 972 & -35 & 8 & 206\end{array}$ DAY 29
$\begin{array}{lllll}00 & 965 & -39 & 2 & 307\end{array}$
$\begin{array}{lllll}03 & 963 & -36 & 1 & 333\end{array}$
$06 \quad 962-26 \quad 2313$
$09 \quad 960-31 \quad 2333$
$\begin{array}{lllll}12 & 959 & -34 & 1 & 350\end{array}$
$\begin{array}{lllll}15 & 958 & -34 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 960 & -34 & 2 & 63\end{array}$
$\begin{array}{lllll}21 & 961 & -35 & 2 & 26\end{array}$

PP TT VV DD DAY 2
973-31 16223
969-28 12233
$\begin{array}{llll}965 & -25 & 16 & 234\end{array}$
$\begin{array}{llll}962 & -23 & 13 & 232\end{array}$
960-22 14217
958-24 13217
957-21 15217
957-22 13208 DAY 9
$\begin{array}{llll}975 & -37 & 3 & 61\end{array}$
$\begin{array}{llll}974 & -39 & 1 & 9\end{array}$
973-42 0
$973-43 \quad 2215$
$972-44 \quad 1122$
$972-42 \quad 1 \quad 123$
$\begin{array}{llll}971 & -40 & 3 & 199\end{array}$
971-38 2216 DAY 16
961-20 17226
$955-18 \quad 25 \quad 223$
952-17 26216
950-16 21216
948-13 16226
948-13 14223
948-14 9226
950-14 7219
DAY 23
$\begin{array}{llll}971 & -37 & 247\end{array}$
969-40 2216
969-43 2285
$\begin{array}{llll}968 & -41 & 3 & 298\end{array}$
968-41 3319
$968-40 \quad 2309$
$\begin{array}{lll}968 & -33 & 5 \\ 279\end{array}$
968 -26 9268 DAY 30
963-37 1284
$\begin{array}{llll}965 & -29 & 0 & 0\end{array}$
$\begin{array}{lll}965 & -24 & 12 \\ 202\end{array}$
$\begin{array}{llll}968 & -27 & 12 & 189\end{array}$
$\begin{array}{llll}970 & -27 & 10 & 181\end{array}$
$\begin{array}{llll}971 & -25 & 10 & 191\end{array}$
$\begin{array}{llll}971 & -23 & 13 & 208\end{array}$
$972-24 \quad 12 \quad 203$

PP TT VV DD DAY 3
959-21 12213
960-23 11216
963-26 11217
964-24 15226
$\begin{array}{llll}964 & -23 & 12 & 223\end{array}$
962-22 12227
960-21 16229
$959-20 \quad 15 \quad 226$ DAY 10
971-40 4215
970-41 5233
$970-41 \quad 9215$
972-41 7210
$\begin{array}{llll}974 & -37 & 6 & 198\end{array}$
$\begin{array}{llll}974 & -38 & 7 & 189\end{array}$
974-39 6202
974-42 4212 DAY 17
956-20 11205
960-18 14227
$\begin{array}{llll}965 & -18 & 15 & 217\end{array}$
968-18 15220
$973-18 \quad 18 \quad 212$
$\begin{array}{llll}977 & -19 & 8 & 187\end{array}$
979-19 6178
$981-23 \quad 5220$
DAY 24
967-24 10268
969-28 10223
972-30 15210
$\begin{array}{llll}974 & -31 & 9 & 219\end{array}$
975-33 10220
$975-326195$
976-32 2243
976 -29 1209 DAY 31
$\begin{array}{llll}973 & -24 & 14 & 196\end{array}$
973-24 $13 \quad 202$
$\begin{array}{llll}974 & -24 & 11 & 210\end{array}$
$\begin{array}{llll}976 & -27 & 12 & 220\end{array}$
$976-26 \quad 13 \quad 213$
$978-28 \quad 13 \quad 213$
$978-27 \quad 13 \quad 223$
979-27 $13 \quad 222$

PP TT VV DD PP TT VV DD DAY 4
958-21 10232
957-19 6227
956-19 14230
955-17 11226
955-16 12227
956-14 13234
957-16 16232
960-19 12212
DAY 11
974-43 4215
$\begin{array}{llll}975 & -43 & 3 & 230\end{array}$
$\begin{array}{llll}975 & -42 & 3 & 205\end{array}$
976-45 2196
$\begin{array}{llll}976 & -44 & 202\end{array}$
$\begin{array}{llll}976 & -43 & 3 & 236\end{array}$
976-46 3239
$\begin{array}{llll}976 & -45 & 3 & 234\end{array}$
DAY 18
$\begin{array}{lll}981 & -21 & 5229\end{array}$
978-16 7262
974-15 9279
971-15 8277
967-15 7309
965-15 6264
964-14 6251
963-14 9 236
DAY 25
975-28 0
976-23 7234
$976-24 \quad 9225$
$\begin{array}{llll}978 & -28 & 7 & 199\end{array}$
$980-31 \quad 5209$
$980-30 \quad 6210$
$\begin{array}{llll}978 & -31 & 4 & 232\end{array}$
$977-314210$

|  |  |  |
| :---: | :---: | :---: |
|  | DAY | 5 |
| 963 | -21 | 4227 |
| 966 | -23 | 5227 |
| 966 | -25 | 4241 |
| 966 | -24 | 4260 |
| 966 | -24 | 4257 |
| 965 | -20 | 6253 |
| 967 | -23 | 17208 |
| 971 | -29 | 7213 |
|  | DAY | 12 |
| 977 | -42 | 5212 |
| 977 | -41 | 7198 |
| 977 | -43 | 5195 |
| 977 | -39 | 7201 |
| 979 | -39 | 10188 |
| 979 | -42 | 4187 |
| 980 | -44 | 10195 |
| 982 | -45 | 9185 |
|  | DAY | 19 |
| 964 | -14 | 6239 |
| 964 | -13 | 10240 |
| 965 | -13 | 12206 |
| 967 | -13 | 12210 |
| 970 | -14 | 8223 |
| 972 | -14 | 11223 |
| 974 | -17 | 6243 |
| 976 | -18 | 6229 |
|  | DAY 26 |  |
| 977 | -38 | 2272 |
| 976 | -38 |  |
| 976 | -34 |  |
| 977 | -42 |  |
| 980 | -44 |  |
| 982 | -42 |  |
| 985 | -35 |  |
| 988 | 39 | 2223 |

PP TT VV DD DAY 6
972-32 5234
$\begin{array}{llll}972 & -31 & 5 & 202\end{array}$
$\begin{array}{llll}973 & -26 & 7 & 199\end{array}$
$973-26 \quad 8 \quad 212$
$\begin{array}{llll}974 & -27 & 8 & 208\end{array}$
$973-29 \quad 5255$
972-28 3244
972 -32 2175 DAY 13
983-44 6196
983-43 8205
$984-45 \quad 8 \quad 216$
$\begin{array}{llll}984 & -46 & 5 & 232\end{array}$
985-46 5198
985-48 5239
$\begin{array}{llll}985 & -45 & 6 & 198\end{array}$
986-46 3234
DAY 20
977-18 3257
979-16 2223
978-20 0
979-22 0
$\begin{array}{lllll}980 & -30 & 1 & 177\end{array}$
$\begin{array}{llll}982 & -29 & 3 & 180\end{array}$
$\begin{array}{llll}984 & -28 & 5 & 174\end{array}$
985-30 2196
DAY 27
989-39 4241
$990 \quad-31 \quad 5 \quad 310$
990-27 3296
990-24 6226
990-23 6219
$991-25 \quad 3210$
$991-274191$
$989-30 \quad 2196$

PP TTVV DD DAY 7
972-29 4246
$\begin{array}{llll}972 & -31 & 4 & 213\end{array}$
$\begin{array}{llll}973 & -28 & 5 & 213\end{array}$
974-35 1215
$\begin{array}{llll}976 & -34 & 2 & 196\end{array}$
$\begin{array}{llll}978 & -35 & 0 & 0\end{array}$
$\begin{array}{llll}980 & -36 & 5 & 253\end{array}$
$\begin{array}{llll}981 & -34 & 5 & 248\end{array}$
DAY 14
987-47 4244
987-48 2251
$\begin{array}{llll}987 & -47 & 320\end{array}$
$\begin{array}{llll}987 & -45 & 254\end{array}$
987-46 1212
$\begin{array}{llll}986 & -44 & 1 & 203\end{array}$
$\begin{array}{llll}985 & -45 & 3 & 167\end{array}$
$\begin{array}{lll}985 & -38 \quad 4 & 232\end{array}$
DAY 21
985-22 12192
985-22 12198
985-22 9208
985-22 9188
985-26 4168
984-32
983-35
981-37

## DAY 28

988-34 2192
986-37 0
983-34
978-36
974-39
969-39
966-39
$\begin{array}{llll}966 & -39 & 2 & 189\end{array}$

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-30.5$ STD DEV $=9.5$ MAX $=-12.5$ AT 350 GMT ON DAY 19 MIN $=-48.4$ AT 510 GMT ON DAY 14
* THETA (K) * MEAN $=244.59$
* PRESSURE (MB) * MEAN $=973.3$ STD DEV $=9.3$ MAX $=990.8$ AT 1720 GMT ON DAY 27 MIN $=947.8$ AT 1400 GMT ON DAY 16
* WINDS (M/S) * MEAN $=7.3$ STD DEV $=5.4$ RESULTANT $=6.7$ FROM 219. CONSTANCY $=0.92$ MAX $=27.7$ FROM 216. AT 620 GMT DAY 16
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: $0.0 \%$ WINDS: $6.0 \%$

WIND SPEED (M/S): 0-2 $2-4 \quad 4-6 \quad 6-818-10 \quad 10-1212-14 \quad 14-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 1 & 0 & 0 & 1 & 0 & 1 & 0 & 1 & 8 & 30 & 37 & 9 & 4 & 2 & 3 & 1\end{array}$

JUN 97
HR PP TT WV DD DAY 1
$\begin{array}{llll}00 & 980 & -25 & 16 \\ 219\end{array}$ $\begin{array}{llll}03 & 981 & -25 & 19 \\ 220\end{array}$
$\begin{array}{lllll}06 & 982 & -25 & 17 & 216\end{array}$
$\begin{array}{lllll}09 & 983 & -24 & 18 & 213\end{array}$
$\begin{array}{lllll}12 & 983 & -24 & 18 & 210\end{array}$
$\begin{array}{lllll}15 & 983 & -24 & 15 & 208\end{array}$
$\begin{array}{lllll}18 & 984 & -26 & 11 & 208\end{array}$
$\begin{array}{lllll}21 & 984 & -27 & 14 & 202\end{array}$ DAY 8
$\begin{array}{llll}00 & 973 & -23 & 3 \\ 296\end{array}$ $\begin{array}{llll}03 & 974 & -16 & 15 \\ 219\end{array}$ $\begin{array}{llll}06 & 976-19 & 12 & 219\end{array}$
$\begin{array}{llll}09 & 976 & -18 & 9 \\ 220\end{array}$
$\begin{array}{lllll}12 & 976 & -19 & 15 & 216\end{array}$
$\begin{array}{llll}15 & 976 & -22 & 12 \\ 213\end{array}$
$\begin{array}{llll}18 & 975 & -22 & 11 \\ 212\end{array}$
$\begin{array}{lll}21 & 975 & -20 \\ 16 & 219\end{array}$ DAY 15
$\begin{array}{llll}00 & 979 & -29 & 3\end{array} 60$
$\begin{array}{lllll}03 & 981 & -30 & 4 & 94\end{array}$
$\begin{array}{lllll}06 & 982 & -33 & 3 & 61\end{array}$
$\begin{array}{lllll}09 & 985 & -36 & 1 & 203\end{array}$
$\begin{array}{lllll}12 & 989 & -30 & 6 & 146\end{array}$
$\begin{array}{lllll}15 & 992 & -27 & 8 & 156\end{array}$
$\begin{array}{llll}18 & 993 & -32 & 5 \\ 170\end{array}$
$\begin{array}{llll}21 & 993 & -34 & 5 \\ 195\end{array}$ DAY 22
001004 -20 11229
$\begin{array}{llll}03 & 1005 & -18 & 9 \\ 202\end{array}$
06 1008-17 10223
09 1008-15 7225
$\begin{array}{llll}12 & 1007 & -16 & 7217\end{array}$

| 15 | 1007 | -21 | 9 |
| :--- | :--- | :--- | :--- |

18 1006-24 6201
21 1003-19 7253 DAY 29
$\begin{array}{lllll}00 & 1004 & -36 & 7 & 194\end{array}$
$\begin{array}{lllll}03 & 1004 & -37 & 5 & 196\end{array}$
$\begin{array}{lllll}06 & 1003 & -38 & 6 & 198\end{array}$
09 1003-38 9202
$\begin{array}{llll}12 & 1003 & -42 & 612\end{array}$
$\begin{array}{llll}15 & 1002 & -43 & 219\end{array}$
$181001-45 \quad 2240$
$\begin{array}{llllllll}21 & 1000 & -44 & 4 & 241 & 990 & -48 & 0\end{array}$


* temperature ( $C$ ) * mean $=-29.0$ Std dev $=8.7$ max $=-14.4$ AT 840 GMT ON DAY 22 MIN $=-48.8$ AT 1420 GMT ON DAY 30
* THETA (K) * MEAN $=245.07$
* PRESSURE (MB) * MEAN $=987.6$ STD DEV $=12.2$ MAX $=1007.9$ AT 710 GMT ON DAY 22 MIN $=960.4$ AT 1720 GMT ON DAY 9
* WINDS (M/S) * MEAN $=7.2$ STD DEV $=5.1$ RESULTANT $=6.2$ FROM 213. CONSTANCY $=0.86$ MAX $=26.4$ FROM 201. AT 2220 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $12.1 \%$
 $\begin{array}{llllllllllllllllllllllll}\text { PERCENT: } & 12 & 22 & 18 & 14 & 7 & 10 & 4 & 4 & 5 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND direction: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 3 & 0 & 0 & 2 & 0 & 1 & 1 & 3 & 7 & 35 & 26 & 9 & 2 & 3 & 3 & 3\end{array}$

JUL 97
HR
00
03
06
09
12

AUG 97
HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 989 & -54 & 8 \\ 205\end{array}$
$\begin{array}{lllll}03 & 989 & -47 & 8 & 208\end{array}$
$\begin{array}{llll}06 & 989 & -47 & 7 \\ 225\end{array}$
$\begin{array}{llll}09 & 987 & -46 & 6 \\ 234\end{array}$
$\begin{array}{lllll}12 & 986 & -44 & 5 & 247\end{array}$
$\begin{array}{lllll}15 & 984 & -45 & 4 & 234\end{array}$
$\begin{array}{lllll}18 & 981 & -50 & 2 & 35\end{array}$
$\begin{array}{lllll}21 & 976 & -49 & 3 & 59\end{array}$ DAY 8
$\begin{array}{llll}00 & 973 & -36 & 7202\end{array}$
$\begin{array}{llll}03 & 972 & -40 & 6 \\ 254\end{array}$
$\begin{array}{lllll}06 & 972 & -40 & 5 & 247\end{array}$
$\begin{array}{lllll}09 & 969 & -35 & 11 & 209\end{array}$
$\begin{array}{lllll}12 & 966 & -39 & 2 & 195\end{array}$
$\begin{array}{ll}15 & 962-45\end{array}$
$\begin{array}{ll}18 & 960-45\end{array}$
21 956-45
DAY 15
$\begin{array}{lllll}00 & 983 & -31 & 8 & 227\end{array}$
$\begin{array}{llll}03 & 982 & -30 & 7 \\ 201\end{array}$
$\begin{array}{llll}06 & 982 & -35 & 6 \\ 209\end{array}$
$\begin{array}{lllll}09 & 982 & -36 & 5 & 244\end{array}$
$\begin{array}{lllll}12 & 982 & -38 & 8 & 226\end{array}$
$\begin{array}{lllll}15 & 981 & -37 & 6 & 226\end{array}$
$\begin{array}{lllll}18 & 977 & -35 & 4 & 250\end{array}$
$\begin{array}{llll}21 & 974 & -29 & 947\end{array}$
DAY 22
00 985-32
$\begin{array}{lllll}03 & 987 & -35 & 2 & 258\end{array}$
$\begin{array}{lllll}06 & 988 & -38 & 0 & 0\end{array}$
09 989-38
$12 \quad 990-42$
$15 \quad 989-42$
$\begin{array}{lllll}18 & 989 & -41 & 1 & 203\end{array}$
$\begin{array}{llll}21 & 990 & -43 & 6196\end{array}$ DAY 29
$\begin{array}{llll}00 & 992 & -45 & 12196\end{array}$
$\begin{array}{lllll}03 & 992 & -45 & 8 & 202\end{array}$
$\begin{array}{lllll}06 & 992 & -48 & 10 & 202\end{array}$
$\begin{array}{llllll}09 & 992 & -48 & 15 & 203\end{array}$
$\begin{array}{llllll}12 & 991 & -47 & 11 & 201\end{array}$
$\begin{array}{llllll}15 & 990 & -45 & 11 & 202\end{array}$
$\begin{array}{lllll}18 & 990 & -46 & 9 & 215\end{array}$
$\begin{array}{llll}21 & 989 & -47 & 816\end{array}$

| PP | TT | VV | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 972 | -47 | 0 | 0 | 973 | -45 | 10 | 215 |
| 968 | -43 | 2 | 50 | 975 | -47 | 6 | 239 |
| 966 | -42 | 4 | 85 | 976 | -48 | 4 | 225 |
| 965 | -45 | 2 | 97 | 975 | -50 | 3 | 98 |
| 966 | -45 | 4 | 188 | 974 | -50 | 0 | 0 |
| 968 | -43 | 10 | 164 | 972 | -47 | 6 | 42 |
| 969 | -40 | 5 | 154 | 971 | -48 | 3 | 54 |
| 971 | 44 |  | 196 | 969 | -48 | 3 | 61 |

DAY 9
$\begin{array}{llll}952 & -35 & 8 & 265\end{array}$
947-27 14268
949-27 12196
955 -35 10203
$\begin{array}{llll}961 & -39 & 11 & 227\end{array}$
964-38 14222
$\begin{array}{llll}966 & -38 & 20 & 210\end{array}$
969 -38 18209
DAY 16

| 972 | -30 | 5 |
| :--- | :--- | :--- |

970-26 8234
968-26 5233
$\begin{array}{llll}967 & -23 & 7 & 239\end{array}$
965-23 10213
965-22 13219
964-23 7219
964-19 16220
DAY 23
990-44 4199
989-42 6223
$989-42 \quad 6226$
988-44 4191
987-45 4220
$\begin{array}{lll}987 & -45 & 4 \\ 289\end{array}$
$\begin{array}{llll}986 & -47 & 220\end{array}$
986-47 1234
DAY 30
989-46 9196
988-46 6203
988-47 4250
987-43 8208
$\begin{array}{llll}987 & -45 & 634\end{array}$
$\begin{array}{llll}986 & -42 & 8 & 217\end{array}$
$986-43 \quad 6227$
$986-41 \quad 9222$

## DAY 10

974-38 19212
$\begin{array}{llll}978 & -38 & 19 & 212\end{array}$
$979-3616216$
$\begin{array}{llll}974 & -37 & 8 & 250\end{array}$
$966-27.978$
958 -22 12272
958 -27 9215
$959-2510209$ DAY 17
967-30 14222
969-27 18223
972 -26 15215
$974-2610 \quad 217$
$\begin{array}{llll}976 & -26 & 7 & 226\end{array}$
$977-26 \quad 3277$
978 -28 6189
$981-29 \quad 6239$ DAY 24
985-48 0 0
984-43 00
$\begin{array}{llll}983 & -44 & 4 & 160\end{array}$
$\begin{array}{llll}983 & -48 & 251\end{array}$
$\begin{array}{llll}982 & -48 & 3 & 243\end{array}$
$\begin{array}{llll}981 & -47 & 326\end{array}$
$980-45 \quad 4279$
979-35 8268 DAY 31
986-40 8217
985 -37 12205
986-37 10203
986-38 11202
985-41 5225
985-43 4236
984-43 4 209
$984-45 \quad 3246$

| PP | Tt |  | DD | PP |  | VV DD | PP |  | VV DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 | 4 |  | DAY | 5 |  | DAY | 6 |  | DAY | 7 |  |
| 969 | -45 | 3 | 38 | 980 | -47 | 4220 | 975 | -52 |  | 969 | -47 |  | 307 |
| 969 | -43 | 1 | 174 | 980 | -47 | 3191 | 972 | -50 |  | 966 | -43 | 0 | 0 |
| 971 | -44 |  | 4149 | 979 | -46 | 4189 | 970 | -50 |  | 966 | -42 |  | 268 |
| 974 | -49 |  | 6192 | 980 | -48 | 3262 | 970 | -47 |  | 966 | -38 |  | 172 |
| 977 | -46 |  | 5171 | 979 | -48 | 4239 | 970 | -46 |  | 967 | -43 |  | 285 |
| 978 | -41 |  | 199 | 979 | -46 | 5215 | 971 | -48 |  | 969 | -34 | 11 | 206 |
| 979 | -42 |  | 5196 | 979 | -50 | 2281 | 970 | -47 |  | 970 | -34 |  | 201 |
| 979 | -44 |  | 208 | 977 | -53 |  | 971 | -45 | 3260 | 972 | -39 | 4 | 192 |
| DAY 11 |  |  |  |  | DAY | 12 |  | DAY | 13 |  | DAY | 14 |  |
| 960 | -23 |  | 202 | 982 | -47 |  | 972 | -34 |  | 971 | -40 |  | 212 |
| 960 | -30 | 15 | 158 | 982 | -48 |  | 968 | -29 |  | 975 | -43 |  | 209 |
| 967 | -35 | 12 | 194 | 982 | -50 |  | 967 | -33 |  | 978 | -38 | 12 | 194 |
| 973 | -36 | 13 | 189 | 982 | -49 |  | 966 | -28 |  | 979 | -37 |  | 182 |
| 978 | -40 | 10 | 189 | 981 | -51 |  | 966 | -24 | 6241 | 979 | -34 |  | 248 |
| 981 | -42 |  | 203 | 980 | -51 |  | 967 | -24 | 9213 | 979 | -27 |  | 230 |
| 982 | -43 |  | 195 | 977 | -45 |  | 968 | -33 | 4209 | 980 | -30 |  | 203 |
| 983 | -46 |  | 201 | 975 | -39 |  | 969 | -37 | 4222 | 983 | -34 | 11 | 226 |
| DAY 18 |  |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |  |  |
| 983 | -35 |  | 3233 | 976 | -32 |  | 983 | -34 | 5217 | 981 | -38 |  |  |
| 984 | -38 |  | 4234 | 977 | -36 |  | 984 | -34 | 2234 | 981 | -39 |  |  |
| 983 | -39 |  | 257 | 977 | -40 |  | 984 | -37 |  | 981 | -41 |  |  |
| 981 | -41 |  |  | 978 | -40 |  | 983 | -36 |  | 981 | -39 |  |  |
| 979 | -36 |  |  | 978 | -41 |  | 982 | -37 |  | 982 | -41 |  |  |
| 977 | -38 |  |  | 978 | -38 |  | 981 | -36 |  | 983 | -41 |  |  |
| 976 | -35 |  |  | 980 | -36 |  | 981 | -36 |  | 983 | -43 |  |  |
| 976 | -36 |  |  | 981 | -33 | 4244 | 981 | -36 |  | 983 | -38 |  |  |
| DAY 25 |  |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |  |  |
| 979 | -32 |  | 8260 | 985 | -41 |  | 984 | -48 |  | 981 | -44 |  |  |
| 980 | -34 |  | 7240 | 985 | -39 |  | 983 | -49 |  | 982 | -44 |  |  |
| 983 | -38 | 6 | 6206 | 985 | -43 |  | 983 | -46 |  | 982 | -49 |  |  |
| 984 | -40 | 8 | 8192 | 984 | -45 |  | 983 | -46 |  | 984 | -50 |  |  |
| 986 | -43 | 2 | 2194 | 984 | -46 |  | 983 | -45 |  | 986 | -50 |  | 203 |
| 985 | -45 |  |  | 983 | -46 |  | 982 | -40 |  | 988 | -45 | 11 | 199 |
| 985 | -46 |  |  | 983 | -48 |  | 981 | -41 |  | 990 | -48 | 13 | 195 |
| 985 | -41 |  |  | 983 | -48 |  | 981 | -41 |  | 991 | -45 | 11 | 201 |

* temperature ( $C$ ) * mean $=-40.1$ Std dev $=7.2$ MAX $=-18.9$ at 2050 GMT ON DAY 16 MIN $=-54.1$ At 0 GMT ON DAY 1
* theta (K) * MEAN $=234.54$
* PRESSURE (MB) * MEAN $=977.7$ STD DEV $=8.7$ MAX $=992.1$ AT 610 GMT ON DAY 29 MIN $=946.5$ AT 450 GMT ON DAY 9
* WINDS (M/S) * MEAN $=6.8$ STD DEV $=4.2$ RESULTANT $=5.9$ fROM 214. CONSTANCY $=0.87$ MAX $=24.6$ FROM 209. AT 1900 GMT DAY 9
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $30.6 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 2 & 2 & 2 & 0 & 0 & 3 & 6 & 34 & 29 & 13 & 7 & 1 & 1 & 0\end{array}$

SEP 97
HR PP TT WV DD DAY 1
00 983-46
$\begin{array}{llll}03 & 983 & -44\end{array}$
06 982-47
09 981-49
12 980-50
$\begin{array}{ll}15 & 979-48\end{array}$
$\begin{array}{ll}18 & 978-46\end{array}$
21 977-45
DAY 8
$\begin{array}{lll}00 & 984 & -37\end{array}$
$\begin{array}{llll}03 & 986 & -38\end{array}$
06 988-40
$09-989$-42
$12-990-43$
$\begin{array}{ll}15 & 991-42\end{array}$
18 989-40
21 987-35
DAY 15
$\begin{array}{lllll}00 & 980 & -39 & 11 & 198\end{array}$
$\begin{array}{llllll}03 & 981 & -39 & 10 & 201\end{array}$
$\begin{array}{lllll}06 & 983 & -43 & 9 & 194\end{array}$
$\begin{array}{lllll}09 & 984 & -43 & 6 & 195\end{array}$
$12 \quad 984-45 \quad 2230$
$\begin{array}{llll}15 & 984 & -46 & 2 \\ 241\end{array}$
$\begin{array}{lllll}18 & 983 & -50 & 0 & 0\end{array}$
$21-982-48$

## DAY 22

$\begin{array}{lllll}00 & 981 & -23 & 822\end{array}$
$\begin{array}{lllll}03 & 981 & -22 & 9 & 198\end{array}$
$\begin{array}{lllll}06 & 981 & -22 & 8 & 198\end{array}$
$\begin{array}{llll}09 & 982 & -23 & 6 \\ 237\end{array}$
$\begin{array}{lllll}12 & 982 & -26 & 4226\end{array}$

| 15 | 983 | -23 | 9 |
| :--- | :--- | :--- | :--- |

18 981-22 5201
21 979-26 2216 DAY 29
$00 \quad 980$-20 17212
$\begin{array}{lllll}03 & 981 & -21 & 14 & 208\end{array}$
$\begin{array}{lllll}06 & 982 & -22 & 13 & 209\end{array}$
$\begin{array}{lllll}09 & 983 & -23 & 9 & 213\end{array}$
$\begin{array}{lllll}12 & 984 & -23 & 15 & 206\end{array}$
$\begin{array}{lllll}15 & 984 & -25 & 10 & 208\end{array}$
$\begin{array}{lllll}18 & 984 & -24 & 11 & 209\end{array}$
$\begin{array}{llll}21 & 984 & -24 & 10 \\ 227\end{array}$

PP TT VV DD DAY 2
976-42
975-43
976-38
976-35
978-36
979-36
981-33
983-25
DAY 9
$\begin{array}{llll}984 & -31 & 5111\end{array}$
979-26 7104
974-25 6161
969-28 15202
966 -30 20210
965 -29 19223
966 -28 19219
967-28 17226 DAY 16
981-45
979-38
977-37
977-37
$\begin{array}{llll}977 & -35 & 0 & 0\end{array}$
$\begin{array}{llll}977 & -34 & 7215\end{array}$
$\begin{array}{llll}978 & -39 & 8 & 212\end{array}$
$980-40 \quad 4 \quad 250$
DAY 23
978-28
975-23
973-21
971-17
969-18
967-19
968-14 9233
969 -17 9212 DAY 30
984-23 14217
983-24 10209
982 -26 8234
$\begin{array}{llll}981 & -25 & 8 & 208\end{array}$
$980-27 \quad 4229$
979-27 7225
979 -25 5239
978 -25 $10 \quad 225$

PP TT VV DD DAY 3
984-21 6258
985 -21 6246
986-19 7254
$986-215254$
987-21 9195
987-21 11206
987-22 11213
987-24 9198 DAY 10
968-28 15220
968-30 11222
$\begin{array}{llll}968 & -31 & 623\end{array}$
$\begin{array}{llll}968 & -37 & 270\end{array}$
968-34 0
$\begin{array}{llll}966 & -38 & 0 & 0\end{array}$
$\begin{array}{llll}964 & -38 & 4 & 54\end{array}$
$964-33 \quad 4360$ DAY 17
982-43 5217
$\begin{array}{llll}984 & -47 & 6 & 226\end{array}$
986-49 5233
$988-49 \quad 4216$
$989-514234$
$\begin{array}{llll}990 & -51 & 5 & 208\end{array}$
$992-52 \quad 4 \quad 223$
992-46 5222 DAY 24
970-19 8205
972-21 8202
974-20 10205
974-18 8195
973-16 11219
969-15 14232
$\begin{array}{llll}963 & -7 & 20 & 226\end{array}$
$961-911199$


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-30.9$ std dev $=9.7$ max $=-7.0$ at 1830 GMt ON dAy 24 min $=-52.0$ at 1640 gMt ON dAy 17
* theta (K) * MEAN $=243.63$
* PRESSURE (MB) * MEAN $=981.0$ STD DEV $=8.4$ MAX $=1002.2$ at 1420 GMT ON DAY 12 MIN $=960.9$ AT 2040 GMT ON DAY 24
* WINDS (M/S) * MEAN $=8.3$ STD DEV $=4.6$ RESULTANT $=7.8$ FROM 211. CONSTANCY $=0.94$ MAX $=23.4$ FROM 217. AT 1510 GMT DAY 9
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $19.2 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 1 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 5 & 48 & 31 & 8 & 1 & 1 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-19.4$ STD DEV $=4.6$ MAX $=-8.6$ AT 1330 GMT ON DAY 2 MIN $=-33.2$ AT 1210 GMT ON DAY 20
* THETA (K) * MEAN $=255.47$
* PRESSURE (MB) * MEAN $=976.8$ STD DEV $=8.8$ MAX $=993.6$ AT 2340 GMT ON DAY 7 MIN $=948.9$ AT 1300 GMT ON DAY 23
* WINDS (M/S) * MEAN $=8.2 \mathrm{STD}$ DEV $=4.9$ RESULTANT $=7.8$ FROM 208. CONSTANCY $=0.95$ MAX $=23.9$ FROM 210 . AT 910 GMT DAY 23 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $2.8 \%$
 PERCENT $\begin{array}{lllllllllllllllll}8 & 17 & 13 & 17 & 11 & & 13 & 6 & 7 & 6 & 2 & & 0 & 0 & 0 & 0 \\ \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ WIND DIR
PERCENT $\begin{array}{rrrrrrrrrrrrrrrr}\text { N } & \text { NNE } & \text { NE } & \text { ENE } & \mathrm{E} & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ 0 & 1 & 0 & 0 & 0 & 2 & 1 & 3 & 10 & 45 & 34 & 3 & 0 & 0 & 0 & 0\end{array}$

NOV 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 968 & -17 & 4 & 113\end{array}$
$\begin{array}{lllll}03 & 968 & -17 & 3 & 191\end{array}$
$\begin{array}{lllll}06 & 967 & -20 & 5 & 164\end{array}$
$09 \quad 966-21 \quad 8 \quad 163$
$\begin{array}{lllll}12 & 966 & -23 & 9 & 177\end{array}$
$\begin{array}{lllll}15 & 966 & -22 & 9 & 205\end{array}$
$\begin{array}{lllll}18 & 967 & -24 & 11 & 210\end{array}$
$21 \quad 968$-23 11212 DAY 8
$\begin{array}{lllll}00 & 983 & -10 & 16 & 203\end{array}$
$\begin{array}{lllll}03 & 982 & -8 & 14 & 222\end{array}$
$\begin{array}{lllll}06 & 980 & -10 & 11 & 232\end{array}$
$\begin{array}{lllll}09 & 977 & -8 & 14 & 223\end{array}$
$\begin{array}{lllll}12 & 976 & -8 & 10 & 234\end{array}$
$\begin{array}{lllll}15 & 977 & -7 & 12 & 212\end{array}$
$\begin{array}{lllll}18 & 980 & -7 & 11 & 192\end{array}$
$\begin{array}{lllll}21 & 984 & -9 & 12 & 196\end{array}$ DAY 15
$\begin{array}{rrrrr}00 & 980 & -6 & 14 & 213 \\ 03 & 980 & -6 & 12 & 220 \\ 06 & 979 & -6 & 12 & 220 \\ 09 & 979 & -6 & 10 & 212 \\ 12 & 980 & -6 & 10 & 217 \\ 15 & 981 & -7 & 10 & 217 \\ 18 & 983 & -8 & 9 & 212 \\ 21 & 984 & -8 & 12 & 213\end{array}$ DAY 22
$\begin{array}{lllll}00 & 1000 & -5 & 6 & 191\end{array}$ $\begin{array}{lllll}03 & 1001 & -4 & 6 & 195\end{array}$ $\begin{array}{lllll}06 & 1001 & -4 & 3 & 215\end{array}$ $\begin{array}{llll}09 & 1002 & -7 & 215\end{array}$ 12 1003-10 1180 $\begin{array}{lllll}15 & 1004 & -13 & 0 & 0\end{array}$ $\begin{array}{llll}18 & 1004-10 \quad 2184\end{array}$ $\begin{array}{llll}21 & 1005 & -7 & 3\end{array}$ DAY 29
$00 \quad 990-10 \quad 8202$
$\begin{array}{lllll}03 & 990 & -10 & 8 & 198\end{array}$
$\begin{array}{llll}06 & 992 & -10 & 5 \\ 210\end{array}$
$09 \quad 993-10 \quad 6 \quad 216$
$\begin{array}{llll}12 & 993 & -11 & 6\end{array} 196$
$\begin{array}{lllll}15 & 994 & -12 & 6 & 189\end{array}$
$\begin{array}{llll}18 & 996 & -12 & 2\end{array} 236$
$\begin{array}{llll}21 & 997 & -10 \quad 3226\end{array}$

| PP |  |  | DD |  |  | VV DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |
| 969 | -22 | 18 | 217 | 968 | -22 | 0 |
| 970 | -22 | 15 | 209 | 967 | -20 | 2298 |
| 970 | -22 | 14 | 216 | 967 | -20 | 00 |
| 971 | -22 | 14 | 208 | 966 | -26 | 0 |
| 971 | -23 | 9 | 195 | 966 | -29 | 00 |
| 971 | -25 | 5 | 196 | 966 | -31 | 2240 |
| 970 | -26 | 2 | 227 | 965 | -25 | 5258 |
| 969 | -23 | 0 | 0 | 964 | -17 | 7246 |
|  | DAY | 9 |  |  | DAY | 10 |
| 988 | -10 | 12 | 205 | 993 | -8 | 8208 |
| 990 | -7 | 16 | 210 | 993 | -8 | 10205 |
| 991 | -7 | 12 | 209 | 993 | -9 | 11216 |
| 991 | -7 | 18 | 216 | 994 | -10 | 8223 |
| 992 | -8 | 13 | 208 | 994 | -12 | 9234 |
| 992 | -10 | 15 | 202 | 994 | -12 | 8223 |
| 992 | -10 | 14 | 215 | 994 | -12 | 11210 |
| 993 | -9 | 13 | 212 | 993 | -12 | 9213 |
|  | DAY | 16 |  |  | DAY | 17 |
| 985 | -7 | 11 | 208 | 983 | -8 | 8209 |
| 985 | -7 | 12 | 213 | 982 | -6 | 8206 |
| 986 | -7 | 11 | 213 | 981 | -7 | 8222 |
| 986 | -7 | 9 | 206 | 980 | -8 | 11222 |
| 986 | -8 | 12 | 205 | 980 | -12 | 8216 |
| 985 | -10 | 8 | 212 | 980 | -11 | 7209 |
| 985 | -11 | 9 | 210 | 979 | -10 | 10219 |
| 984 | -9 | 8 | 215 | 979 | -6 | 10232 |
|  | DAY | 23 |  |  | DAY | 24 |
| 1005 | -6 | 5 | 219 | 1007 | -6 | 10184 |
| 1005 | -3 | 6 | 187 | 1007 | -6 | 8185 |
| 1005 | -4 | 4 | 181 | 1007 | -5 | 8187 |
| 1005 | -4 | 1 | 149 | 1007 | -5 | 7191 |
| 1006 | -4 | 4 | 160 | 1007 | -4 | 6185 |
| 1006 | -5 | 3 | 177 | 1006 | -5 | 8184 |
| 1006 | -4 | 3 | 156 | 1006 | -6 | 6187 |
| 1007 | -3 | 5 | 174 | 1005 | -5 | 4177 |
|  | DAY | 30 |  |  |  |  |
| 997 | -9 | 5 | 254 |  |  |  |
| 997 | -7 | 4 | 225 |  |  |  |
| 998 | -8 | 5 | 191 |  |  |  |
| 998 | -11 | 4 | 201 |  |  |  |
| 998 | -14 | 3 | 209 |  |  |  |
| 998 | -14 | 0 | 0 |  |  |  |
| 997 | -12 | 0 |  |  |  |  |
| 997 | -6 | 0 |  |  |  |  |

969 -22 18217
970-22 15209
$970-2214216$
971-22 14208
$\begin{array}{llll}971 & -23 & 9 & 195\end{array}$
$\begin{array}{llll}971 & -25 & 5 & 196\end{array}$
970-26 2227
$69-23 \quad 0 \quad 0$
DAY 9
988-10 $12 \quad 205$
$990-716210$
$991-712209$
991 -7 18216
$992-8 \quad 13208$
992-10 15202
-10 14215 DAY 16

PP TT VV DD PP TT VV DD DAY 4
$964-20 \quad 9217$
$965-20 \quad 12215$
963-15 12232
960-11 13225
959-11 11220
960-10 11201
962-12 11205
965-12 13217 DAY 11
992-10 11210
$992-9 \quad 9213$
991 -9 9210
991-12 6223
991-14 8223
991-15 7217 991-14 6225 $991-12 \quad 8 \quad 217$ DAY 18
$979-511220$
$977-611227$
$\begin{array}{llll}977 & -7 & 7 & 216\end{array}$
$\begin{array}{llll}978 & -6 & 9 & 206\end{array}$
$\begin{array}{llll}979 & -6 & 10 & 210\end{array}$
$980-6 \quad 12 \quad 210$
$980-6 \quad 12 \quad 225$
$981-511209$
DAY 25
$\begin{array}{llll}1005 & -4 & 4 & 182\end{array}$
$\begin{array}{llll}1004 & -3 & 4 & 172\end{array}$
$\begin{array}{llll}1004 & -3 & 3 & 171\end{array}$
$\begin{array}{llll}1004 & -3 & 2 & 161\end{array}$
$\begin{array}{llll}1004 & -5 & 5 & 116\end{array}$
$1003-5 \quad 4119$
$\begin{array}{llll}1003 & -5 & 3 & 136\end{array}$
1003 -4 4130

DAY 5
965-11 16215
966-10 12212
968-10 14212
970-10 11215
972-11 13213
974-11 131212
976-11 12212
978-10 11205 DAY 12
991-11 8208
$991-11 \quad 9199$
992-11 6205
$992-14 \quad 4205$
992-15 7203
$991-16 \quad 8202$
$991-16 \quad 6209$
$990-14 \quad 7196$
DAY 19
$\begin{array}{llll}982 & -5 & 12 & 209\end{array}$
$\begin{array}{llll}984 & -5 & 12 & 203\end{array}$
$985-4.12226$
$\begin{array}{llll}986 & -5 & 13 & 227\end{array}$
$\begin{array}{llll}986 & -5 & 11 & 217\end{array}$
$\begin{array}{llll}986 & -4 & 14 & 215\end{array}$
$\begin{array}{llll}987 & -3 & 17 & 216\end{array}$
$\begin{array}{llll}989 & -3 & 14 & 205\end{array}$
DAY 26
$\begin{array}{llll}1003 & -3 & 3 & 154\end{array}$
$\begin{array}{llll}1002 & -3 & 3 & 120\end{array}$
$\begin{array}{llll}1001 & -2 & 178\end{array}$
$\begin{array}{llll}1000 & -4 & 2 & 99\end{array}$
$\begin{array}{lll}1000 & -5 & 2115\end{array}$
$\begin{array}{llll}999 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}998 & -4 & 0 & 0\end{array}$
997 -2 0

PP TT VV DD DAY 6
$\begin{array}{llll}979 & -8 & 9 & 205\end{array}$
$\begin{array}{llll}981 & -9 & 10 & 208\end{array}$
$\begin{array}{llll}982 & -9 & 905\end{array}$
981-12 8226
982-13 6232
981-16 6216
982-14 $\quad 8 \quad 217$
982-13 9213
DAY 13
989-12 7198
989-11 7187
989-12 4217
988-15 5202
987-16 7217
987-17 9208
987-15 $10 \quad 215$
986-12 10223
DAY 20
$\begin{array}{llll}991 & -3 & 12 & 212\end{array}$
$992-312212$
$992-3 \quad 16209$
$\begin{array}{llll}993 & -4 & 14 & 205\end{array}$
$993-5 \quad 9215$
$\begin{array}{llll}994 & -6 & 7223\end{array}$
$\begin{array}{llll}994 & -6 & 9 & 213\end{array}$
$\begin{array}{llll}994 & -5 & 12 & 198\end{array}$
DAY 27
$\begin{array}{llll}996 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}995 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}993 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}992 & -6 & 1 & 94\end{array}$
$991-6 \quad 1 \quad 149$
$\begin{array}{llll}990 & -7 & 4 & 187\end{array}$
989-10 7181
989-10 $\quad 3 \quad 195$

PP TT VV DD DAY 7
983-12 11225
983-11 13220
983-10 14202
984-12 11203
985-11 9208
984-13 10222
985-12 14220
985-11 14219
DAY 14
986-11 12226
986-10 11212
985-10 13209
985-10 9216
$\begin{array}{llll}984 & -9 & 12 & 216\end{array}$
$\begin{array}{llll}983 & -9 & 12 & 215\end{array}$
$982-910223$
$981-711220$
DAY 21
$\begin{array}{llll}994 & -3 & 10 & 205\end{array}$
$\begin{array}{llll}994 & -4 & 11 & 225\end{array}$
$\begin{array}{llll}994 & -3 & 12 & 209\end{array}$
$\begin{array}{llll}994 & -5 & 12 & 203\end{array}$
$\begin{array}{llll}995 & -6 & 9 & 213\end{array}$
$\begin{array}{llll}996 & -8 & 7 & 196\end{array}$
$\begin{array}{llll}997 & -7 & 8 & 199\end{array}$
$\begin{array}{llll}999 & -7 & 9 & 195\end{array}$ DAY 28
987-10 2187
$\begin{array}{llll}987 & -10 & 3 & 178\end{array}$
$\begin{array}{llll}986 & -10 & 5 & 178\end{array}$
986-11 4178
987-12 6201
987-12 3196
988-12 10209
989-11 6198

* TEMPERATURE (C) * MEAN $=-9.8$ STD DEV $=5.6$ MAX $=-1.0$ AT 130 GMT ON DAY 27 MIN $=-31.5$ AT 1350 GMT ON DAY 3
* THETA (K) * MEAN $=264.36$
* PRESSURE (MB) * MEAN $=986.9$ STD DEV $=11.7$ MAX $=1007.3$ AT 2310 GMT ON DAY 23 MIN $=958.7$ AT 1200 GMT ON DAY 4
* WINDS (M/S) * MEAN $=8.1$ STD DEV $=4.2$ RESULTANT $=7.7$ FROM 209. CONSTANCY $=0.96$ MAX $=18.3$ FROM 216. AT 900 GMT DAY 9
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW


* TEMPERATURE (C) * MEAN $=-6.2$ STD DEV $=3.9 \mathrm{MAX}=1.9$ AT 2340 GMT ON DAY 28 MIN $=-19.9$ AT 1350 GMT ON DAY 10
* THETA (K) * MEAN $=267.73$
* PRESSURE (MB) * MEAN $=990.1$ STD DEV $=5.9$ MAX $=1005.4$ AT 40 GMT ON DAY 5 MIN $=977.2$ AT 1530 GMT ON DAY 13
* WINDS (M/S) * MEAN $=4.1$ STD DEV $=2.8$ RESULTANT $=3.0$ FROM 208. CONSTANCY $=0.74$ MAX $=13.0$ FROM 220. AT 30 GMT DAY 12 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
3 & 2 & 2 & 3 & 4 & 2 & 4 & 7 & 19 & 23 & 16 & 8 & 2 & 2 & 1 & 1
\end{array}
$$

## STATION : 8935 LYNN

LAT : 74.21S LONG : 160.41E ELEVATION : 1772 M
JAN 97

HR PP TT VV DD DAY 1

| 00 | 785 | -14 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}03 & 783 & -13 & 5 \\ 230\end{array}$
$\begin{array}{llll}06 & 783 & -12 & 3 \\ 243\end{array}$
$\begin{array}{lllll}09 & 783 & -16 & 4 & 275\end{array}$
$\begin{array}{lllll}12 & 784 & -21 & 5 & 268\end{array}$
$\begin{array}{llll}15 & 785 & -23 & 6 \\ 265\end{array}$
$\begin{array}{llll}18 & 784 & -21 & 5 \\ 265\end{array}$
$\begin{array}{llll}21 & 783-19 & 6 & 260\end{array}$ DAY 8
$\begin{array}{llll}00 & 777 & -17 & 9 \\ 260\end{array}$
$\begin{array}{llll}03 & 777 & -14 & 6 \\ 261\end{array}$
$\begin{array}{llll}06 & 776 & -14 & 5 \\ 265\end{array}$
$\begin{array}{llll}09 & 777 & -16 & 4 \\ 274\end{array}$
$12 \quad 779-23 \quad 5300$
$\begin{array}{lllll}15 & 780 & -25 & 7 & 279\end{array}$
$18 \quad 780-24 \quad 8274$
$21 \quad 779-20 \quad 6275$ DAY 15
$\begin{array}{lllll}00 & 783 & -16 & 11 & 223\end{array}$
$\begin{array}{lllll}03 & 782 & -14 & 11 & 234\end{array}$
$\begin{array}{lllll}06 & 782 & -16 & 8 & 223\end{array}$
$\begin{array}{lllll}09 & 783 & -17 & 6 & 215\end{array}$
$\begin{array}{lllll}12 & 786 & -17 & 3 & 206\end{array}$

| 15 | 787 | -22 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}18 & 788 & -22 & 7 \\ 246\end{array}$
$\begin{array}{lll}21 & 788 & -20 \\ 8 & 254\end{array}$ DAY 22
$\begin{array}{llll}00 & 786 & -17 & 6 \\ 243\end{array}$
$\begin{array}{lllll}03 & 785 & -14 & 5 & 217\end{array}$
$06 \quad 784-12 \quad 2198$
$\begin{array}{lllll}09 & 787 & -18 & 6 & 244\end{array}$
$\begin{array}{llll}12 & 789 & -21 & 7 \\ 250\end{array}$

| 15 | 792 | -24 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}18 & 793 & -25 & 7 \\ 267\end{array}$
$\begin{array}{llll}21 & 793 & -23 & 967\end{array}$ DAY 29
$\begin{array}{llll}00 & 784 & -24 & 7 \\ 254\end{array}$
$\begin{array}{lllll}03 & 783 & -22 & 7 & 246\end{array}$
$06 \quad 784-21 \quad 3225$
$\begin{array}{llll}09 & 784 & -20 & 1 \\ 246\end{array}$
$\begin{array}{llll}12 & 786 & -25 & 4 \\ 246\end{array}$
$\begin{array}{lllll}15 & 787 & -24 & 6 & 258\end{array}$
$\begin{array}{lllll}18 & 789 & -26 & 11 & 241\end{array}$
$21 \quad 789-2410236$

PP TT VV DD DAY 2
$\begin{array}{lll}781 & -16 & 4 \\ 237\end{array}$
$779-14 \quad 4205$
$779-14 \quad 4194$
779-16 1196
$\begin{array}{llll}781 & -17 & 2 & 153\end{array}$
$\begin{array}{llll}781 & -16 & 4 & 187\end{array}$
$\begin{array}{llll}781 & -16 & 4 & 172\end{array}$
781-13 3150 DAY 9
777-17 5261
$\begin{array}{llll}776 & -14 & 3 & 262\end{array}$
775-13 3262
776-17 0 0

| 780 | -24 | 5 |
| :--- | :--- | :--- |

782-26 6285
$\begin{array}{llll}783 & -24 & 4 & 274\end{array}$
783 -23 7258 DAY 16
787-17 6240
785-15 8239
785-14 5232
786-16 6243
787-20 $\quad 8 \quad 248$
788-21 9251
$\begin{array}{llll}788 & -23 & 8 & 248\end{array}$
$789-20 \quad 6246$ DAY 23
792-19 9262
$\begin{array}{llll}791 & -17 & 7 & 257\end{array}$
789-15 4268
$790-20 \quad 6279$
791-24 8281
$\begin{array}{lll}791 & -25 & 7 \\ 274\end{array}$
$\begin{array}{llll}791 & -25 & 8 & 274\end{array}$
789 -21 8278 DAY 30
789-23 9240
788 -22 14253
789 -20 9236
791-22 9241
794-24 8247
796-26 8255
796 -26 13265
795 -24 12253


| DAY | 3 |
| :---: | :---: |
| $779-11$ | 4 |

779-11 4157
778-10 1189
779-16 3258
781-20 4265
782-22 6267
$\begin{array}{llll}783 & -20 & 7 & 257\end{array}$
782-18 6258 DAY 10
782-19 7243
$\begin{array}{llll}781 & -17 & 5 & 248\end{array}$
$\begin{array}{llll}782 & -17 & 7 & 254\end{array}$
783-17 2267
785-18 4278
785-19 6272
786-19 4289
785-18 5268 DAY 17
788-18 6248
787-16 7253
787-15 7253
$\begin{array}{lll}788 & -17 & 5 \\ 253\end{array}$
$790-21 \quad 6 \quad 265$
791-23 8257
791 -23 9260
791-21 9 257 DAY 24
787-21 8267
786-19 5255
785-19 5246
786-18 5196
787-19 3255
787-18 1253
787-17 1222
786-19 6209 DAY 31
795-21 10257
792-18 7262
793-18 5271
$794-204267$
795 -24 8262
796-25 9265
795-23 8264
794-19 6277


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-19.0$ Std dev $=4.1$ max $=-7.8$ at 310 GMt on day 12 min $=-30.9$ at 1520 GMt on day 27
* THETA (K) * MEAN $=272.49$
* PRESSURE (MB) * MEAN $=784.4$ STD DEV $=4.3$ MAX $=796.4$ at 1630 GMT ON DAY 30 MIN $=774.7$ AT 550 GMT ON DAY 9
* WINDS (M/S) * MEAN $=5.6$ STD DEV $=2.6$ RESULTANT $=5.1$ FROM 253. CONSTANCY $=0.91$ MAX $=14.3$ FROM 253 . AT 300 GMT DAY 30
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllllllllllll}\text { PERCENT: } & 8 & 18 & 29 & 29 & 12 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
$\begin{array}{lrrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 3 & 3 & 5 & 12 & 36 & 37 & 2 & 2 & 0\end{array}$
PERCENT

FEB 97
$\begin{array}{lll}\text { HR } \quad \text { PP TT VV } \\ & \text { DAY } & 1\end{array}$
$\begin{array}{llll}00 & 792 & -17 & 7 \\ 250\end{array}$
$\begin{array}{llllll}03 & 791 & -17 & 10 & 253\end{array}$
$\begin{array}{lllll}06 & 791 & -18 & 10 & 243\end{array}$
$\begin{array}{llll}09 & 792 & -20 & 943\end{array}$
$\begin{array}{lllll}12 & 794 & -22 & 4 & 271\end{array}$
$\begin{array}{llll}15 & 796 & -26 & 7 \\ 271\end{array}$
$\begin{array}{llll}18 & 796 & -26 & 5 \\ 275\end{array}$
$\begin{array}{llll}21 & 795 & -25 & 8 \\ 262\end{array}$ DAY 8
$\begin{array}{lllll}00 & 783 & -26 & 10 & 268\end{array}$
$\begin{array}{lllll}03 & 781 & -23 & 9 & 253\end{array}$
$\begin{array}{lllll}06 & 780 & -22 & 7 & 257\end{array}$
$\begin{array}{lllll}09 & 781 & -25 & 9 & 257\end{array}$
$\begin{array}{lllll}12 & 783 & -29 & 5 & 272\end{array}$
$\begin{array}{lllll}15 & 785 & -32 & 9 & 271\end{array}$
$\begin{array}{lllll}18 & 786 & -32 & 9 & 267\end{array}$
$\begin{array}{llll}21 & 786 & -30 & 8 \\ 251\end{array}$ DAY 15

| 00 | 781 | -30 | 9 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 779 & -26 & 7 & 268\end{array}$
$\begin{array}{llll}06 & 779 & -26 & 7 \\ 271\end{array}$

| 09 | 781 | -29 | 8 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}12 & 782 & -33 & 8 & 278\end{array}$
$\begin{array}{lllll}15 & 783 & -36 & 10 & 272\end{array}$
$\begin{array}{lllll}18 & 784 & -37 & 8 & 272\end{array}$
$\begin{array}{lllll}21 & 784 & -35 & 7 & 270\end{array}$ DAY 22
$\begin{array}{lllll}00 & 778 & -27 & 8 & 254\end{array}$
$\begin{array}{lllll}03 & 777 & -27 & 10 & 236\end{array}$
$\begin{array}{llll}06 & 777 & -27 & 5 \\ 240\end{array}$
$\begin{array}{lllll}09 & 778 & -30 & 7 & 248\end{array}$
$\begin{array}{lllll}12 & 779 & -34 & 6 & 271\end{array}$
$\begin{array}{lllll}15 & 780 & -35 & 9 & 257\end{array}$
$\begin{array}{lllll}18 & 781 & -36 & 9 & 262\end{array}$
$\begin{array}{llll}21 & 781 & -34 & 9\end{array}$

PP TT VV DD DAY 2
794-22 6261
793-19 7257
792-18 5261
793-21 6265
$\begin{array}{llll}796 & -27 & 4 & 267\end{array}$
$\begin{array}{llll}796 & -27 & 7 & 267\end{array}$
795-25 9262 DAY 9
786-25 5255
784-22 3255
784-23 7262
$\begin{array}{llll}785 & -24 & 6 & 248\end{array}$
786-26 8251
787-29 9258
$\begin{array}{llll}787 & -30 & 7 & 268\end{array}$
$\begin{array}{llll}786 & -28 & 8 & 264\end{array}$ DAY 16
$\begin{array}{llll}782 & -31 & 6 & 267\end{array}$
$\begin{array}{llll}780 & -27 & 6 & 264\end{array}$
$\begin{array}{lll}781 & -28 & 5 \\ 253\end{array}$
$\begin{array}{llll}783 & -32 & 5 & 257\end{array}$
$\begin{array}{llll}785 & -36 & 7 & 268\end{array}$
$\begin{array}{llll}786 & -38 & 6 & 272\end{array}$
$\begin{array}{llll}787 & -38 & 9 & 274\end{array}$
$\begin{array}{llll}787 & -34 & 7 & 277\end{array}$ DAY 23
$\begin{array}{lll}781 & -31 & 9 \\ 254\end{array}$
$780-28 \quad 7255$
780-27 8240
782-30 11244
$\begin{array}{llll}784 & -31 & 9 & 253\end{array}$
$\begin{array}{llll}784 & -32 & 11 & 246\end{array}$
$\begin{array}{llll}785 & -33 & 5 & 310\end{array}$
$\begin{array}{llll}784 & -33 & 8 & 261\end{array}$

PP TT WV DD DAY 3
794-21 7262
791-19 7253
792-21 2251
794-27 4257
795-29 9244
796-29 7271
795 -27 6265 DAY 10
785-23 8268
783 -21 7265
783-21 9262
$\begin{array}{lll}784 & -24 & 7 \\ 267\end{array}$
786-27 6267
$\begin{array}{llll}787 & -29 & 7 & 264\end{array}$
$\begin{array}{llll}788 & -29 & 7 & 271\end{array}$
787 -27 7270 DAY 17
786-31 12285
784-27 10262
785-27-7268
785-29 $10 \quad 260$

| 788 | -34 | 7 |
| :--- | :--- | :--- |

$789-3711284$
$\begin{array}{lllll}790 & -36 & 13 & 275\end{array}$
790 -32 12271 DAY 24
782-31 9254
$\begin{array}{llll}781 & -30 & 11 & 262\end{array}$
$\begin{array}{llll}780 & -30 & 10 & 262\end{array}$
$\begin{array}{lllll}781 & -33 & 11 & 258\end{array}$
$\begin{array}{llll}783 & -34 & 9 & 260\end{array}$
$\begin{array}{llll}785 & -36 & 9 & 257\end{array}$
785 -36 12272
786-35 11274

PP TT VV DD PP TT VV DD DAY 4
793-26 10246
$\begin{array}{llll}792 & -23 & 6 & 248\end{array}$
791 -22 7253
$792-249253$
$\begin{array}{lll}793 & -28 & 9 \\ 250\end{array}$
$794-3010258$
$794-30 \quad 8 \quad 257$
793-28 11250 DAY 11
785-23 7271
784-20 6262
784-19 5274
$786-23 \quad 4309$
$788-24 \quad 4295$
$\begin{array}{lll}788 & -22 & 384\end{array}$
788-22 6270
787 -22 9272
DAY 18
788-28 9278
$786-26 \quad 9275$
$\begin{array}{llll}786 & -25 & 6 & 274\end{array}$
787-28 $\quad 5268$
$\begin{array}{llll}787 & -28 & 6 & 264\end{array}$
786-29 -8243
$\begin{array}{llll}785 & -30 & 7 & 241\end{array}$
$\begin{array}{llll}782 & -30 & 5226\end{array}$ DAY 25
784-32 8267
783-29 9262
784-29 9 264
$\begin{array}{llll}786 & -32 & 9 & 260\end{array}$
$\begin{array}{llll}788 & -35 & 9 & 254\end{array}$
$\begin{array}{llll}789 & -36 & 9 & 247\end{array}$
$\begin{array}{lllll}789 & -36 & 8 & 247\end{array}$
$\begin{array}{llll}788 & -34 & 9 & 244\end{array}$

PT VV
DAY 5
791-24 5291
$789-2411260$
788 -22 10262
789 -24 11253
791 -27 11254
792-30 9262
793-29 9254
792 -27 10255 DAY 12
785-22 9274
785-22 8241
$\begin{array}{llll}784 & -24 & 8 & 244\end{array}$
785-26 7253
786-29 6254
786-32 $10 \quad 262$
785 -33 9255
$\begin{array}{llll}784 & -31 & 10 & 247\end{array}$ DAY 19
780-28 4195
$\begin{array}{llll}778 & -26 & 5 & 188\end{array}$
$\begin{array}{llll}777 & -24 & 5 & 130\end{array}$
$\begin{array}{llll}778 & -25 & 6 & 140\end{array}$
$\begin{array}{llll}778 & -26 & 4 & 172\end{array}$
$\begin{array}{llll}779 & -26 & 7170\end{array}$
$\begin{array}{llll}779 & -25 & 4 & 205\end{array}$
$\begin{array}{llll}778 & -22 \quad 3171\end{array}$ DAY 26
$\begin{array}{lll}786 & -30 & 622\end{array}$
784-27 6195
$\begin{array}{llll}784 & -27 & 7 & 178\end{array}$
$\begin{array}{lll}785 & -26 & 5165\end{array}$
786-26 $\quad 5139$
$\begin{array}{llll}786 & -27 & 4 & 164\end{array}$
$\begin{array}{llll}786 & -27 & 5 & 170\end{array}$
$\begin{array}{llll}785 & -26 & 6 & 177\end{array}$


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-27.7$ STD DEV $=4.8$ MAX $=-16.6$ AT 230 GMT ON DAY 1 MIN $=-39.4$ AT 1850 GMT ON DAY 28
* theta (K) * MEAN $=263.04$
* PRESSURE (MB) * MEAN $=784.7$ STD DEV $=5.0$ MAX $=796.4$ AT 1740 GMT ON DAY 2 MIN $=775.7$ AT 420 GMt ON DAY 20
* WINDS (M/S) * MEAN $=7.7$ STD DEV $=2.2$ RESULTANT $=7.1$ fROM 255. CONSTANCY $=0.92$ MAX $=15.0$ FROM 267. AT 1920 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \%$ WINDS: $0.9 \%$


PERCENT

MAR 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 777 & -37 & 13 & 272\end{array}$
$\begin{array}{lllll}03 & 776 & -34 & 12 & 271\end{array}$
$\begin{array}{llllll}06 & 776 & -34 & 11 & 265\end{array}$
$\begin{array}{llllll}09 & 777 & -36 & 10 & 270\end{array}$
$\begin{array}{lllll}12 & 778 & -38 & 13 & 261\end{array}$
$\begin{array}{lllll}15 & 780 & -40 & 15 & 265\end{array}$
$\begin{array}{lllll}18 & 781 & -41 & 8 & 268\end{array}$
$\begin{array}{llll}21 & 781 & -39 & 18 \\ 254\end{array}$ DAY 8
$\begin{array}{lllll}00 & 774 & -38 & 7 & 267\end{array}$
$\begin{array}{lllll}03 & 772 & -35 & 6 & 270\end{array}$
$\begin{array}{lllll}06 & 772 & -35 & 5 & 271\end{array}$
$\begin{array}{lllll}09 & 773 & -38 & 6 & 279\end{array}$
$\begin{array}{lllll}12 & 774 & -35 & 8 & 268\end{array}$
$\begin{array}{lllll}15 & 775 & -36 & 6 & 275\end{array}$
$\begin{array}{lllll}18 & 776 & -37 & 7 & 284\end{array}$
$\begin{array}{llll}21 & 777 & -38 & 9 \\ 270\end{array}$ DAY 15
$\begin{array}{lllll}00 & 778 & -36 & 7 & 246\end{array}$
$\begin{array}{lllll}03 & 777 & -34 & 7 & 241\end{array}$
$\begin{array}{lllll}06 & 778 & -35 & 7 & 243\end{array}$
$\begin{array}{lllll}09 & 780 & -37 & 8 & 257\end{array}$
$\begin{array}{lllll}12 & 781 & -38 & 9 & 253\end{array}$
$\begin{array}{lllll}15 & 782 & -39 & 7 & 258\end{array}$
$\begin{array}{lllll}18 & 782 & -39 & 10 & 264\end{array}$
$\begin{array}{llll}21 & 782 & -37 & 9\end{array}$ DAY 22
$\begin{array}{lllll}00 & 778 & -42 & 14 & 277\end{array}$
$\begin{array}{llll}03 & 778 & -40 & 9 \\ 291\end{array}$
$\begin{array}{lllll}06 & 778 & -39 & 8 & 291\end{array}$

| 09 | 780 | -42 | 8 |
| :--- | :--- | :--- | :--- |


| 12 | 781 | -42 | 10 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}15 & 782 & -42 & 10 & 268\end{array}$
$\begin{array}{lllll}18 & 782 & -43 & 9 & 272\end{array}$
$\begin{array}{lllll}21 & 783 & -43 & 10 & 267\end{array}$
DAY 29
$\begin{array}{lllll}00 & 763 & -47 & 20 & 260\end{array}$
$\begin{array}{lllll}03 & 762 & -46 & 20 & 262\end{array}$
$\begin{array}{lllll}06 & 761 & -46 & 20 & 261\end{array}$
$\begin{array}{llllll}09 & 761 & -47 & 15 & 262\end{array}$
$\begin{array}{llllll}12 & 760 & -47 & 16 & 260\end{array}$
$\begin{array}{lllll}15 & 760 & -48 & 18 & 270\end{array}$
$\begin{array}{lllll}18 & 761 & -48 & 16 & 274\end{array}$
$\begin{array}{llll}21 & 763 & -46 & 14 \\ 274\end{array}$

PP TTVV DD DAY 2
$\begin{array}{lll}783 & -38 & 12254\end{array}$
785-36 16251
787-36-10 264
$\begin{array}{llll}789 & -37 & 16 & 244\end{array}$
$\begin{array}{llll}791 & -38 & 17 & 250\end{array}$
$\begin{array}{lllll}794 & -37 & 11 & 255\end{array}$
793-36 13257
794-35 $10 \quad 270$ DAY 9
$\begin{array}{llll}777 & -32 & 8 & 265\end{array}$
775 -31 8240
$\begin{array}{llll}774 & -33 & 6 & 241\end{array}$
$\begin{array}{llll}774 & -34 & 5 & 222\end{array}$
$\begin{array}{llll}772 & -34 & 5 & 205\end{array}$
$\begin{array}{lllll}770 & -32 & 10 & 156\end{array}$
$\begin{array}{llll}770 & -31 & 7 & 146\end{array}$
$\begin{array}{llll}771 & -29 & 8 & 136\end{array}$ DAY 16

| 781 | -35 | 9 |
| :--- | :--- | :--- |

$\begin{array}{llll}779 & -33 & 11 & 261\end{array}$
$\begin{array}{lllll}779 & -33 & 10 & 257\end{array}$
$\begin{array}{llll}780 & -36 & 9 & 261\end{array}$
$\begin{array}{llll}780 & -36 & 12 & 254\end{array}$
780-36 $\begin{array}{llll}11 & 264\end{array}$
$\begin{array}{lllll}779 & -35 & 13 & 264\end{array}$
$\begin{array}{llll}778 & -34 & 13 & 257\end{array}$ DAY 23
783-41 12265
783-40 9270
784-40 11270
787-42 12268
$\begin{array}{llll}788 & -43 & 13 & 267\end{array}$
$\begin{array}{llll}789 & -43 & 13 & 271\end{array}$
790-43 $11 \begin{array}{lll}268\end{array}$
791-43 14264 DAY 30
763-44 12270
763-42 7289
763-43 8268
$\begin{array}{llll}766 & -45 & 6 & 270\end{array}$
$\begin{array}{llll}767 & -45 & 6 & 272\end{array}$
$\begin{array}{llll}767 & -44 & 7 & 267\end{array}$
$\begin{array}{llll}768 & -43 & 6 & 257\end{array}$
$\begin{array}{llll}768 & -41 & 6 & 254\end{array}$

PP TT VV DD
$\begin{array}{llll}793 & -32 & 11 & 250\end{array}$
$\begin{array}{lll}791 & -28 & 11 \\ 257\end{array}$
790 -27 10264
$\begin{array}{llll}790 & -30 & 10 & 261\end{array}$
$\begin{array}{llll}790 & -32 & 10 & 261\end{array}$
$\begin{array}{llll}789 & -33 & 10 & 261\end{array}$
788-33 13261
786 -32 14253 DAY 10
773-28 6151
$\begin{array}{llll}772 & -27 & 6 & 154\end{array}$
$\begin{array}{llll}774 & -27 & 4 & 164\end{array}$
$\begin{array}{llll}775 & -27 & 3 & 209\end{array}$
$\begin{array}{llll}775 & -27 & 6 & 236\end{array}$
$\begin{array}{lll}775 & -29 & 9 \\ 236\end{array}$
$\begin{array}{llll}775 & -31 & 9 & 236\end{array}$
$\begin{array}{lll}776 & -34 & 13 \\ 240\end{array}$ DAY 17
777-31 11255
$\begin{array}{llllll}777 & -31 & 10 & 248\end{array}$
$\begin{array}{lll}777 & -32 & 12 \\ 251\end{array}$
$\begin{array}{lll}777 & -33 & 12 \\ 251\end{array}$
$\begin{array}{lll}778 & -35 & 12 \\ 251\end{array}$
778-35 12246
$\begin{array}{llll}779 & -35 & 12 & 247\end{array}$
779 - 3412250 DAY 24
$\begin{array}{llll}791 & -40 & 14 & 262\end{array}$
$\begin{array}{llll}790 & -37 & 13 & 255\end{array}$
$\begin{array}{lll}792 & -37 & 5 \\ 299\end{array}$
$\begin{array}{llll}794 & -40 & 10 & 275\end{array}$
$\begin{array}{llll}795 & -41 & 9 & 275\end{array}$
$\begin{array}{llll}796 & -41 & 13 & 271\end{array}$
$\begin{array}{lllll}796 & -40 & 11 & 268\end{array}$
795-38 11253 DAY 31
768-39 5262
$\begin{array}{llll}767 & -38 & 6 & 244\end{array}$
$\begin{array}{llll}767 & -40 & 8 & 254\end{array}$
$\begin{array}{llll}768 & -41 & 9 & 246\end{array}$
$\begin{array}{lll}769 & -42 & 11 \\ 251\end{array}$
$\begin{array}{llll}771 & -44 & 9 & 262\end{array}$
$\begin{array}{llll}772 & -43 & 7 & 262\end{array}$
$\begin{array}{llll}773 & -43 & 8 & 260\end{array}$

PP TT VV DD PP TT VV DD DAY 5
$\begin{array}{llll}775 & -31 & 4 & 260\end{array}$ 774-29 7254 $\begin{array}{llll}773 & -29 & 6 & 248\end{array}$ $\begin{array}{llll}775 & -32 & 7253\end{array}$
$\begin{array}{llll}777 & -34 & 9 & 247\end{array}$
$\begin{array}{llll}778 & -34 & 9 & 251\end{array}$
$\begin{array}{llll}778 & -35 & 11 & 251\end{array}$
778-36 13274 DAY 12
770-36 10264
767-34 14254
766-35 11267
$\begin{array}{lllll}766 & -37 & 10 & 264\end{array}$
$\begin{array}{llll}767 & -39 & 9 & 265\end{array}$
$\begin{array}{llll}767 & -39 & 7 & 277\end{array}$
$\begin{array}{llll}766 & -40 & 12 & 270\end{array}$
766-39 9271 DAY 19
$\begin{array}{llll}784 & -33 & 12 & 265\end{array}$
$\begin{array}{llll}782 & -33 & 11 & 257\end{array}$
782-35 $13 \quad 254$
$\begin{array}{llll}784 & -38 & 11 & 260\end{array}$
$784-4010 \quad 267$
784-40 $12 \quad 265$
783-42 13270
783-42 14.244 DAY 26
789-36 9279
$\begin{array}{llll}788 & -34 & 9 & 278\end{array}$
788-35 9275
$789-3811274$
$\begin{array}{llll}789 & -37 & 11 & 271\end{array}$
788-37 $12 \quad 270$
$\begin{array}{lllll}788 & -36 & 12 & 268\end{array}$
787-37 13264

PP TT VV DD DAY 7
$\begin{array}{llll}775 & -41 & 15 & 267\end{array}$
$\begin{array}{llll}773 & -39 & 11 & 258\end{array}$
772-39 12265
$773-4113271$
774-42 11270
$\begin{array}{llll}775 & -43 & 10 & 271\end{array}$
$\begin{array}{llll}775 & -43 & 10 & 264\end{array}$
$\begin{array}{llll}775 & -41 & 8 & 265\end{array}$ DAY 14
$\begin{array}{lll}773 & -35 & 16 \\ 265\end{array}$
$\begin{array}{lllll}771 & -33 & 14 & 261\end{array}$
$\begin{array}{llll}771 & -33 & 11 & 264\end{array}$
$\begin{array}{llll}772 & -36 & 12 & 264\end{array}$
$\begin{array}{llll}774 & -37 & 8 & 255\end{array}$
775 -39 12260
$\begin{array}{lllll}776 & -39 & 12 & 261\end{array}$
$\begin{array}{llllll}777 & -38 & 10 & 247\end{array}$

## DAY 21

$\begin{array}{llll}774 & -41 & 5 & 277\end{array}$
$\begin{array}{llll}772 & -40 & 11 & 268\end{array}$
$\begin{array}{llll}773 & -41 & 9 & 262\end{array}$
$\begin{array}{llll}775 & -44 & 8 & 264\end{array}$
$\begin{array}{llll}776 & -45 & 9 & 277\end{array}$
776-45 14270
$\begin{array}{llll}776 & -45 & 17 & 265\end{array}$
$\begin{array}{llll}778 & -45 & 13 & 272\end{array}$ DAY 28
$\begin{array}{llll}774 & -38 & 13 & 274\end{array}$
$\begin{array}{llll}771 & -37 & 13 & 275\end{array}$

$\begin{array}{llllll}770 & -49 & 14 & 281\end{array}$
768-52 19277
767-51 24261
767-50 13260
764-49 $17 \quad 268$

* temperature ( $C$ ) * mean $=-37.2$ Std dev $=4.9$ max $=-26.2$ at 600 GMT ON DAY 4 MIN $=-51.8$ AT 1140 GMT ON DAY 28
* theta (K) * MEAN $=253.61$
* PRESSURE (MB) * MEAN $=777.6$ STD DEV $=8.0$ MAX $=795.9$ at 1710 GMT ON DAY 24 MIN $=760.0$ AT 1120 GMT ON DAY 29
* WINDS (M/S) * MEAN $=10.5$ STD DEV $=3.4$ RESULTANT $=10.0$ FROM 261. CONSTANCY $=0.95$ MAX $=27.0$ FROM 271. AT 1400 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 774 & -43 & 11 & 268\end{array}$ $\begin{array}{llllll}03 & 774 & -45 & 15 & 264\end{array}$
$06 \quad 774-45 \quad 22 \quad 262$
$\begin{array}{lllll}09 & 773 & -44 & 21 & 254\end{array}$
$\begin{array}{lllll}12 & 776 & -42 & 17 & 261\end{array}$
$\begin{array}{lllll}15 & 776 & -42 & 22 & 253\end{array}$
$\begin{array}{lllll}18 & 776 & -43 & 19 & 250\end{array}$
$\begin{array}{llllll}21 & 778 & -44 & 17 & 251\end{array}$ DAY 8
$\begin{array}{lllll}00 & 773 & -41 & 10 & 267\end{array}$
$\begin{array}{lllll}03 & 772 & -39 & 7 & 274\end{array}$
$\begin{array}{lllll}06 & 774 & -41 & 7 & 265\end{array}$
$\begin{array}{llll}09 & 777 & -43 & 6 \\ 271\end{array}$
$\begin{array}{lllll}12 & 779 & -39 & 4 & 268\end{array}$
$\begin{array}{lllll}15 & 780 & -37 & 6 & 268\end{array}$
$\begin{array}{lllll}18 & 780 & -35 & 3 & 241\end{array}$
$\begin{array}{llll}21 & 779 & -34 & 3\end{array}$ DAY 15
$00 \quad 778$-49 11262
$\begin{array}{llllll}03 & 779 & -49 & 12 & 265\end{array}$
$\begin{array}{llllll}06 & 780 & -50 & 14 & 268\end{array}$
$\begin{array}{lllll}09 & 781 & -51 & 14 & 267\end{array}$
$\begin{array}{lllll}12 & 782 & -52 & 12 & 271\end{array}$
$\begin{array}{lllll}15 & 783 & -52 & 11 & 277\end{array}$
$\begin{array}{lllll}18 & 784 & -52 & 12 & 271\end{array}$
$\begin{array}{llll}21 & 785 & -52 & 11 \\ 271\end{array}$ DAY 22
$\begin{array}{lllll}00 & 798 & -40 & 12 & 268\end{array}$
$\begin{array}{lllll}03 & 797 & -39 & 11 & 270\end{array}$
$\begin{array}{lllll}06 & 797 & -39 & 9 & 274\end{array}$
$\begin{array}{lllll}09 & 796 & -38 & 10 & 264\end{array}$
$\begin{array}{llll}12 & 795 & -41 & 9 \\ 270\end{array}$
$\begin{array}{llllll}15 & 794 & -40 & 11 & 262\end{array}$
$\begin{array}{llllll}18 & 792 & -40 & 11 & 268\end{array}$
$\begin{array}{llll}21 & 791 & -40 & 11 \\ 250\end{array}$ DAY 29
$\begin{array}{lllll}00 & 780 & -46 & 12 & 270\end{array}$
$\begin{array}{lllll}03 & 780 & -45 & 13 & 272\end{array}$
$\begin{array}{lllll}06 & 779 & -46 & 15 & 260\end{array}$
$\begin{array}{lllll}09 & 778 & -46 & 9 & 312\end{array}$
$\begin{array}{llllll}12 & 776 & -49 & 15 & 277\end{array}$
$\begin{array}{lllll}15 & 774 & -51 & 17 & 271\end{array}$
$\begin{array}{lllll}18 & 773 & -52 & 18 & 260\end{array}$
$\begin{array}{lllll}21 & 774 & -52 & 13 & 268\end{array}$

PP TT VV DD DAY 2
$\begin{array}{lll}778 & -44 & 20 \\ 253\end{array}$
780-44 6341
$778-4314260$
778-44 14262
778-44 $14 \quad 257$
$779-46 \quad 5336$
$\begin{array}{lll}780 & -46 & 6 \\ 265\end{array}$

| 781 | -44 | 5 |
| :--- | :--- | :--- | DAY 9

$\begin{array}{llll}778 & -31 & 7 & 177\end{array}$
$\begin{array}{llll}777 & -31 & 6 & 150\end{array}$
$\begin{array}{llll}778 & -32 & 6 & 164\end{array}$
$\begin{array}{llll}779 & -32 & 2175\end{array}$
$\begin{array}{llll}780 & -37 & 6 & 255\end{array}$
$\begin{array}{llll}780 & -37 & 7 & 254\end{array}$
$\begin{array}{llll}779 & -39 & 9 & 268\end{array}$
$779-4110270$ DAY 16
786-51 9272
$786-51 \quad 10277$
$787-51 \quad 10272$
$788-50 \quad 10 \quad 271$
$789-50 \quad 9270$
790-49 11270
$790-4912 \quad 270$
$\begin{array}{llll}791 & -49 & 11 & 267\end{array}$ DAY 23
$\begin{array}{llll}789 & -41 & 10 & 268\end{array}$
$\begin{array}{llll}788 & -41 & 8 & 271\end{array}$
$\begin{array}{llll}788 & -42 & 11 & 277\end{array}$
788-42 $12 \quad 277$
$\begin{array}{lll}787 & -4214281\end{array}$
$\begin{array}{llll}788 & -43 & 10 & 284\end{array}$
$787-4311293$
$\begin{array}{llll}786 & -44 & 10 & 277\end{array}$ DAY 30
773-52 10268
$773-5212270$
$773-5211267$
773-52 11264
$\begin{array}{llll}772 & -52 & 12 & 264\end{array}$
773-51 13258
$773-5112254$
$774-51 \quad 10 \quad 255$

PP TTVV DD DAY 3
780-43 14257
$\begin{array}{ll}781 & -4215251\end{array}$
$\begin{array}{llll}781 & -43 & 17 & 253\end{array}$
$\begin{array}{lll}784 & -45 & 14 \\ 243\end{array}$
$\begin{array}{lll}785 & -4513 & 250\end{array}$
787-42 10239
787-42 14247
788-42 15250
DAY 10
$\begin{array}{llll}778 & -41 & 10 & 271\end{array}$
$\begin{array}{llll}777 & -40 & 12 & 265\end{array}$
$\begin{array}{lll}777 & -41 & 13 \\ 264\end{array}$
$\begin{array}{llll}777 & -42 & 13 & 268\end{array}$
$\begin{array}{llll}777 & -43 & 12 & 270\end{array}$
$\begin{array}{lll}776 & -4313264\end{array}$
$\begin{array}{llll}777 & -44 & 13 & 268\end{array}$
$\begin{array}{llll}776 & -43 & 13 & 277\end{array}$
DAY 17
791-49 10271
$\begin{array}{lll}791 & -48 & 9 \\ 265\end{array}$
$\begin{array}{lll}791 & -45 & 9 \\ 270\end{array}$
$\begin{array}{llll}790 & -40 & 7 & 260\end{array}$
$\begin{array}{llll}790 & -38 & 7 & 253\end{array}$
$\begin{array}{lll}791 & -38 & 5 \\ 255\end{array}$
$\begin{array}{llll}791 & -37 & 6 & 257\end{array}$
$\begin{array}{llll}792 & -36 & 5 & 260\end{array}$
DAY 24
784-45 14270
$\begin{array}{ll}782 & -46 \\ 13 & 270\end{array}$
782-47 15267
$\begin{array}{llll}781 & -47 & 12 & 257\end{array}$
$\begin{array}{llll}781 & -47 & 12 & 260\end{array}$
$\begin{array}{llll}780 & -48 & 16 & 267\end{array}$
$779-4919268$
$780-5018 \quad 265$

PP TT VV DD PP TT WV DD PP TT VV DD DAY 5
784-43 14261
$782-4415 \quad 262$
$\begin{array}{llll}781 & -44 & 15 & 257\end{array}$
$\begin{array}{lll}780 & -42 & 14253\end{array}$
$777-4111250$
$\begin{array}{llll}775 & -40 & 16 & 257\end{array}$
$\begin{array}{llll}775 & -41 & 7 & 296\end{array}$
$\begin{array}{llll}774 & -41 & 12 & 251\end{array}$ DAY 12
769-50 16261
$770-4917 \quad 258$
771-50 15255
$773-50 \quad 4345$
774-50 14260
774-51 16262
775 -51 15268
776-51 15274 DAY 19
799-32 3246
$\begin{array}{llll}798 & -32 & 241\end{array}$
$\begin{array}{lll}798 & -32 & 240\end{array}$

| 798 | -32 | 2 |
| :--- | :--- | :--- |

$\begin{array}{llll}798 & -32 & 4 & 243\end{array}$
$\begin{array}{llll}798 & -33 & 4 & 247\end{array}$
$\begin{array}{llll}797 & -31 & 346\end{array}$
$\begin{array}{llll}796 & -31 & 4 & 240\end{array}$

## DAY 26

778-51 16271
$\begin{array}{llll}775 & -5215 & 261\end{array}$
773-50 13258

| 773 | -49 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}771 & -47 & 9 & 239\end{array}$
$\begin{array}{llll}772 & -48 & 9 & 246\end{array}$
$\begin{array}{llllll}773 & -48 & 10 & 248\end{array}$
774-46 12240

DAY 6
$\begin{array}{lll}774 & -4214260\end{array}$
$\begin{array}{lll}773 & -39 & 11 \\ 267\end{array}$
$\begin{array}{lll}774 & -37 & 10 \\ 250\end{array}$
$\begin{array}{llll}776 & -39 & 8 & 264\end{array}$
$\begin{array}{llll}777 & -35 & 8 & 258\end{array}$
$\begin{array}{llll}777 & -39 & 6 & 270\end{array}$
$\begin{array}{llll}777 & -35 & 6 & 254\end{array}$
778 -40 7286
DAY 13
776-50 13270
775-50 14272
776-51 15262
776-51 13261
$\begin{array}{llll}776 & -50 & 15 & 260\end{array}$
$\begin{array}{llll}775 & -50 & 14 & 258\end{array}$
775-51 13262
775-51 11258
DAY 20
796-30 4241
$\begin{array}{llll}796 & -30 & 4 & 247\end{array}$
$\begin{array}{llll}796 & -32 & 6 & 261\end{array}$
$\begin{array}{lll}797 & -34 & 6254\end{array}$
$\begin{array}{llll}798 & -35 & 6 & 270\end{array}$
$\begin{array}{llll}798 & -36 & 8 & 270\end{array}$
$\begin{array}{llll}797 & -34 & 10 & 262\end{array}$
797-35 9270
DAY 27
775-49 13253
$775-5013267$
774-51 18253
776-51 12265
$\begin{array}{llll}776 & -51 & 7 & 296\end{array}$
775-51 12279
774-51 12267
$775-5115267$

PP TT VV DD DAY 7
$\begin{array}{llll}777 & -39 & 9 & 270\end{array}$
$\begin{array}{llll}775 & -37 & 7 & 274\end{array}$
$\begin{array}{llll}775 & -40 & 9 & 277\end{array}$
$\begin{array}{llll}774 & -39 & 9 & 272\end{array}$
$\begin{array}{llll}774 & -39 & 10 & 268\end{array}$
$\begin{array}{llll}773 & -40 & 11 & 270\end{array}$
$773-4217 \quad 272$
773-42 13268 DAY 14
775 -51 15260
775 -50 16267
775 -51 10265
776 -50 11270
776-49 12265
776-49 11270
776-49 14267
777-49 12264 DAY 21
797-35 9272
$\begin{array}{llll}797 & -35 & 8 & 270\end{array}$
796-34 $10 \quad 268$
$\begin{array}{llll}796 & -37 & 8 & 265\end{array}$
$\begin{array}{llll}797 & -36 & 9 & 267\end{array}$
$\begin{array}{llll}797 & -38 & 11 & 265\end{array}$
$\begin{array}{llll}797 & -40 & 11 & 264\end{array}$
$\begin{array}{lll}797 & -40 \quad 14 \quad 267\end{array}$
DAY 28
776-50 12262
$\begin{array}{lll}777 & -50 & 10 \\ 261\end{array}$
778-51 11261
779-50 11257
$\begin{array}{llll}780 & -50 & 13 & 260\end{array}$
$781-4811262$
$\begin{array}{llll}781 & -47 & 12 & 262\end{array}$
781-46 9264

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-43.7$ STD DEV $=6.3$ MAX $=-29.8$ AT 140 GMT ON DAY 20 MIN $=-53.4$ AT 1840 GMT ON DAY 25
* theta (K) * MEAN $=246.18$
* PRESSURE (MB) * MEAN $=781.8$ STD DEV $=8.3$ MAX $=798.8$ at 2240 GMT ON DAY 18 MIN $=769.1$ AT 1730 GMT ON DAY 11
* WINDS (M/S) * MEAN $=11.1$ STD DEV $=4.1$ RESULTANT $=10.8$ FROM 264. CONSTANCY $=0.97$ MAX $=24.7$ FROM 254. AT 1710 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ PERCENT: $\quad 2 \begin{array}{llllllllllllll} & 3 & 10 & 8 & 13 & 20 & 19 & 14 & 6 & 2 & 2 & 0 & 0 & 0\end{array}$
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 29 & 64 & 3 & 0 & 1\end{array}$

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 774 & -51 & 10 & 250\end{array}$
$\begin{array}{lllll}03 & 775 & -52 & 9 & 258\end{array}$
$\begin{array}{lllll}06 & 774 & -53 & 11 & 267\end{array}$
$\begin{array}{lllll}09 & 775 & -54 & 9 & 271\end{array}$
$\begin{array}{lllll}12 & 776 & -54 & 7 & 271\end{array}$
$\begin{array}{lllll}15 & 775 & -51 & 7 & 254\end{array}$

| 18 | 775 | -48 | 7 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}21 & 773 & -48 & 9 \\ 254\end{array}$ DAY 8
$\begin{array}{lllll}00 & 782 & -47 & 4 & 330\end{array}$
$\begin{array}{lllll}03 & 781 & -49 & 14 & 260\end{array}$
$\begin{array}{llll}06 & 782 & -49 & 13\end{array} 268$
$\begin{array}{llllll}09 & 782 & -49 & 12 & 268\end{array}$
$\begin{array}{lllll}12 & 783 & -49 & 15 & 270\end{array}$
$\begin{array}{llll}15 & 782 & -49 & 13 \\ 265\end{array}$
$\begin{array}{lllll}18 & 780 & -48 & 14 & 274\end{array}$
$\begin{array}{lllll}21 & 779 & -47 & 16 & 274\end{array}$ DAY 15
$\begin{array}{lllll}00 & 778 & -54 & 13 & 268\end{array}$
$\begin{array}{lllll}03 & 778 & -55 & 14 & 264\end{array}$
$\begin{array}{lllll}06 & 777 & -56 & 14 & 270\end{array}$
$\begin{array}{llllll}09 & 777 & -56 & 14 & 268\end{array}$
$\begin{array}{lllll}12 & 777 & -57 & 12 & 272\end{array}$
$\begin{array}{lllll}15 & 776 & -55 & 13 & 268\end{array}$
$\begin{array}{lllll}18 & 775 & -54 & 12 & 268\end{array}$
$\begin{array}{llll}21 & 773 & -52 & 16 \\ 268\end{array}$ DAY 22
$\begin{array}{lllll}00 & 778 & -47 & 12 & 268\end{array}$
$\begin{array}{lllll}03 & 777 & -45 & 11 & 261\end{array}$
$\begin{array}{lllll}06 & 775 & -43 & 11 & 248\end{array}$
$\begin{array}{lllll}09 & 775 & -41 & 12 & 244\end{array}$
$\begin{array}{lllll}12 & 775 & -41 & 13 & 246\end{array}$
$\begin{array}{lllll}15 & 775 & -42 & 13 & 258\end{array}$
$\begin{array}{lllll}18 & 773 & -41 & 14 & 264\end{array}$
$\begin{array}{lllll}21 & 770 & -43 & 13 & 265\end{array}$ DAY 29
$\begin{array}{lllll}00 & 778 & -37 & 16 & 254\end{array}$
$\begin{array}{llllll}03 & 777 & -37 & 18 & 258\end{array}$
$\begin{array}{lllll}06 & 776 & -36 & 16 & 253\end{array}$
$\begin{array}{lllll}09 & 776 & -38 & 11 & 264\end{array}$
$\begin{array}{lllll}12 & 775 & -38 & 11 & 278\end{array}$
$\begin{array}{lllll}15 & 774 & -36 & 7 & 340\end{array}$
$\begin{array}{lllll}18 & 772 & -35 & 11 & 284\end{array}$
$\begin{array}{lllll}21 & 770 & -37 & 14 & 275\end{array}$

PP TT VV DD DAY 2
772-48 8253
$\begin{array}{llll}770 & -48 & 10 & 255\end{array}$
$\begin{array}{llll}768 & -49 & 12 & 260\end{array}$
$\begin{array}{llll}766 & -49 & 14 & 260\end{array}$
$\begin{array}{llll}766 & -47 & 13 & 261\end{array}$
$\begin{array}{lllll}765 & -48 & 11 & 261\end{array}$
$\begin{array}{llll}764 & -48 & 8 & 265\end{array}$
$\begin{array}{llll}764 & -47 & 12 & 268\end{array}$ DAY 9
$\begin{array}{llll}776 & -48 & 18 & 264\end{array}$
$\begin{array}{lllll}775 & -48 & 15 & 270\end{array}$
$\begin{array}{llll}773 & -45 & 15 & 267\end{array}$
$\begin{array}{llll}772 & -45 & 12 & 270\end{array}$
$\begin{array}{llll}770 & -43 & 17 & 262\end{array}$
$\begin{array}{llll}771 & -43 & 0 & 0\end{array}$
$\begin{array}{llll}770 & -43 & 2 & 329\end{array}$
$\begin{array}{llll}769 & -43 & 13 & 255\end{array}$ DAY 16
$\begin{array}{llll}772 & -51 & 15 & 272\end{array}$
$\begin{array}{llll}769 & -49 & 13 & 271\end{array}$
$\begin{array}{llll}767 & -48 & 12 & 274\end{array}$
$\begin{array}{lllll}765 & -47 & 13 & 271\end{array}$
$\begin{array}{llll}764 & -46 & 13 & 277\end{array}$
$\begin{array}{lllll}763 & -44 & 11 & 274\end{array}$
$\begin{array}{llll}761 & -41 & 10 & 267\end{array}$
760-38 9262 DAY 23
$\begin{array}{llll}767 & -45 & 16 & 264\end{array}$
$\begin{array}{lllll}765 & -48 & 15 & 264\end{array}$
$\begin{array}{llll}764 & -50 & 17 & 257\end{array}$
$\begin{array}{llll}764 & -52 & 9 & 274\end{array}$
763-52 9274
763-51 12250
765-51 9253
$766-50 \quad 9247$ DAY 30
769-36 12254
$\begin{array}{lllll}769 & -37 & 11 & 247\end{array}$
$\begin{array}{lllll}768 & -38 & 16 & 255\end{array}$
$769-40 \quad 10255$
$\begin{array}{llll}769 & -42 & 15 & 255\end{array}$
$\begin{array}{lllll}770 & -45 & 14 & 253\end{array}$
$\begin{array}{lllll}771 & -46 & 13 & 251\end{array}$
$\begin{array}{llllll}771 & -47 & 17 & 258\end{array}$

PP TTVV DD DAY 3
765-44 11258
765-42 8254
$\begin{array}{llll}766 & -41 & 8 & 254\end{array}$
$\begin{array}{llll}766 & -41 & 10 & 257\end{array}$
767-45 11257
767-45 $10 \quad 268$
767-44 10264
765-43 14255
DAY 10
769-43 12247
769-46 $12 \quad 270$
768-46 15255
$768-4614 \quad 265$
768-48 13272
$767-4816264$
767-50 14264
767-51 19264 DAY 17
$\begin{array}{llll}759 & -35 & 10 & 260\end{array}$
$\begin{array}{llll}760 & -33 & 3 & 246\end{array}$
763-32
766-33
770-35
773-33
$\begin{array}{llll}775 & -37 & 6 & 233\end{array}$
$\begin{array}{llll}777 & -37 & 5 & 244\end{array}$ DAY 24
767-48 8246
$\begin{array}{lllll}769 & -46 & 6 & 243\end{array}$
$\begin{array}{llll}770 & -44 & 6 & 237\end{array}$
$\begin{array}{llll}771 & -39 & 5 & 199\end{array}$
$\begin{array}{llll}772 & -41 & 8 & 236\end{array}$
772-42 10261
$773-4713250$
$774-4712262$ DAY 31
771-48 16260
$773-4910 \quad 255$
$\begin{array}{llll}773 & -49 & 13 & 264\end{array}$
$\begin{array}{llll}775 & -49 & 12 & 265\end{array}$
776-47 13265
$\begin{array}{llll}777 & -47 & 11 & 262\end{array}$
777-46 $12 \quad 262$
$\begin{array}{llll}778 & -46 & 11 & 257\end{array}$

PP TT VV DD PP TT VV DD DAY 4
765-44 16260
764-45 19254
$765-4720250$
$\begin{array}{llll}766 & -48 & 20 & 255\end{array}$
769-48 13258
$769-4918268$
769-49 16271
$769-4715261$

## DAY 11

769-53 13268
$769-5314268$
$769-5414268$
$769-5515262$
769-55 14270
769-56 12271
$769-5610265$
769-56 12264 DAY 18
778-40 7260
$\begin{array}{llll}779 & -43 & 10 & 265\end{array}$
$779-4511264$
$\begin{array}{lllll}779 & -46 & 14 & 267\end{array}$
$\begin{array}{llll}777 & -46 & 13 & 271\end{array}$
$\begin{array}{llll}774 & -42 & 13 & 257\end{array}$
$772-4013254$
772 -40 12258 DAY 25
776-46 13254
777-47 11262
779-47 15253
$779-4614257$
780-46 $16 \quad 253$
$\begin{array}{llll}781 & -48 & 15 & 247\end{array}$
$\begin{array}{llll}783 & -48 & 517\end{array}$
$781-4611254$

DAY 5
770-47 14270
769-46 17272
769-46 13268
769-46 14270
$770-4611275$
$770-46 \quad 13271$
769-47 13271
$770-4812267$ DAY 12
769-55 10262
$769-55 \quad 10262$
769-55 9265
$770-5512265$
$770-5510264$
$770-55 \quad 9270$
$770-5510265$
771 -57 10268 DAY 19
$\begin{array}{lll}771 & -39 & 11 \\ 260\end{array}$
$\begin{array}{llll}771 & -39 & 11 & 265\end{array}$
$\begin{array}{llll}771 & -40 & 16 & 262\end{array}$
$\begin{array}{llll}772 & -41 & 13 & 262\end{array}$
$\begin{array}{llll}774 & -43 & 13 & 277\end{array}$
$775-4512 \quad 274$
$\begin{array}{llll}776 & -46 & 10 & 291\end{array}$
777-47 $12 \quad 268$ DAY 26
781-44 16250
781-42 17248
781-42 16246
782-41 $15 \quad 241$
$782-4019243$
784-39 17244
$785-4016250$
$787-4016248$

PP TT VV DD DAY 6
769-49 13272
$770-4911274$
769-49 10270
$\begin{array}{llll}770 & -48 & 9 & 267\end{array}$
$\begin{array}{llll}770 & -48 & 8 & 271\end{array}$
$\begin{array}{llll}770 & -49 & 9 & 270\end{array}$
$771-4911274$
770 -50 15271 DAY 13
$772-5713271$
$773-5711270$
774-56 12272
775-56 10272
$775-5511272$
776 -54 12268
777 -54 10271
778 -54 10268 DAY 20
$\begin{array}{llll}777 & -43 & 6 & 262\end{array}$
$\begin{array}{llll}776 & -35 & 4 & 236\end{array}$
$\begin{array}{llll}774 & -31 & 4 & 184\end{array}$
$\begin{array}{llll}774 & -31 & 4 & 171\end{array}$
$\begin{array}{llll}774 & -29 & 3 & 174\end{array}$
$\begin{array}{llll}774 & -31 & 3 & 195\end{array}$
$\begin{array}{llll}776 & -33 & 4 & 192\end{array}$
$\begin{array}{llll}777 & -33 & 4 & 199\end{array}$ DAY 27
$\begin{array}{llll}788 & -40 & 18 & 248\end{array}$
$791-4010 \quad 251$
791-39 14254
$792-4014261$
$\begin{array}{llll}793 & -40 & 14 & 270\end{array}$
792-39 13262
791-38 16254
792-38 9271

PP TTVV DD DAY 7
771-50 12268
772-49 16264
774-48 $14 \begin{array}{lll}265\end{array}$
$775-4815262$
777-49 15265
$778-4813253$
$\begin{array}{llll}778 & -47 & 17 & 260\end{array}$
$\begin{array}{llll}781 & -47 & 6 & 306\end{array}$
DAY 14
779-54 11272
779-54 12271
$779-5413274$
780-53 12274
$779-5412268$
$779-5213260$
$\begin{array}{lllll}779 & -52 & 8 & 275\end{array}$
778-53 14258 DAY 21
779 -36 7246
$\begin{array}{llll}781 & -38 & 9 & 255\end{array}$
$\begin{array}{llll}781 & -41 & 11 & 268\end{array}$
$\begin{array}{llll}781 & -43 & 13 & 268\end{array}$
$\begin{array}{llll}781 & -46 & 12 & 267\end{array}$
780-48 $15 \quad 270$
$779-4714265$
778-4716 264
DAY 28
791-38 14257
$\begin{array}{llll}790 & -38 & 13 & 265\end{array}$
$\begin{array}{lllll}789 & -36 & 14 & 255\end{array}$
$\begin{array}{llll}787 & -36 & 16 & 253\end{array}$
$\begin{array}{llll}785 & -36 & 17 & 254\end{array}$
$\begin{array}{llllll}783 & -35 & 13 & 258\end{array}$
$\begin{array}{llll}780 & -35 & 13 & 264\end{array}$
$\begin{array}{llll}778 & -36 & 16 & 241\end{array}$

* TEMPERATURE (C) * MEAN $=-45.6$ STD DEV $=6.3$ MAX $=-29.2$ AT 1150 GMT ON DAY 20 MIN $=-57.6$ AT 2320 GMt ON DAY 12
* theta (K) * MEAN $=244.89$
* PRESSURE (MB) * MEAN $=773.7$ STD DEV $=6.6$ MAX $=792.8$ AT 1420 GMT ON DAY 27 MIN $=758.8$ AT 30 GMT ON DAY 17
* WINDS (M/S) * MEAN $=12.0$ STD DEV $=3.5$ RESULTANT $=11.7$ FROM 262. CONSTANCY $=0.98$ MAX $=22.9$ FROM 253. AT 830 GMT DAY 4
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $1.6 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 32 & 61 & 1 & 1 & 1\end{array}$

* TEMPERATURE (C) * MEAN $=-42.1$ STD DEV $=6.1$ MAX $=-23.1$ AT 930 GMT ON DAY 19 MIN $=-55.9$ AT 2140 GMT ON DAY 27
* THETA (K) * MEAN $=247.71$
* PRESSURE (MB) * MEAN $=784.3$ STD DEV $=8.5$ MAX $=802.8$ AT 720 GMT ON DAY 22 MIN $=763.9$ AT 2320 GMT ON DAY 9
* WINDS (M/S) * MEAN $=12.5$ STD DEV $=3.9$ RESULTANT $=12.1$ FROM 257. CONSTANCY $=0.97$ MAX $=24.0$ FROM 281 . AT 1410 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $53.7 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 6$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT


| PP | TT WV | DD | PP | It VV | DD | PP | It VV | DD |  | TT WV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY 5 |  |  | day 6 |  |  | DAY 7 |  |
| 774 | -45 |  | 785 | -50 |  | 774 | -50 |  | 774 | -45 |  |
| 775 | -46 |  | 784 | -51 |  | 773 | -52 |  | 773 | -48 |  |
| 776 | -46 |  | 783 | -49 |  | 773 | -52 |  | 773 | -48 |  |
| 778 | -46 |  | 782 | -47 |  | 774 | -52 |  | 772 | -49 |  |
| 781 | -46 |  | 781 | -48 |  | 775 | -48 |  | 771 | -49 |  |
| 783 | -48 |  | 779 | -48 |  | 775 | -46 |  | 772 | -48 |  |
| 784 | -48 |  | 778 | -49 |  | 774 | -43 |  | 771 | -45 |  |
| 784 | -51 |  | 776 | -50 |  | 774 | -45 |  | 771 | -42 |  |
|  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 764 | -47 |  | 768 | -53 |  | 788 | -49 |  | 783 | -49 |  |
| 762 | -45 |  | 770 | -52 |  | 792 | -50 |  | 780 | -49 |  |
| 761 | -45 |  | 773 | -52 |  | 792 | -51 |  | 778 | -48 |  |
| 760 | -48 |  | 776 | -52 |  | 791 | -50 |  | 776 | -48 |  |
| 760 | -51 |  | 779 | -52 |  | 790 | -50 |  | 774 | -49 |  |
| 762 | -52 |  | 781 | -52 |  | 788 | -49 |  | 772 | -50 |  |
| 763 | -52 |  | 786 | -52 |  | 785 | -49 |  | 768 | -49 |  |
| 765 | -52 |  | 787 | -49 |  | 784 | -49 |  | 768 | -48 |  |
|  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 779 | -49 |  | 775 | -50 |  | 780 | -57 |  | 782 | -47 |  |
| 778 | -50 |  | 775 | -52 |  | 781 | -56 |  | 779 | -46 |  |
| 777 | -50 |  | 776 | -54 |  | 783 | -55 |  | 778 | -45 |  |
| 776 | -51 |  | 776 | -55 |  | 784 | -52 |  | 777 | -46 |  |
| 775 | -52 |  | 777 | -57 |  | 785 | -52 |  | 775 | -47 |  |
| 773 | -52 |  | 778 | -57 |  | 785 | -51 |  | 775 | -48 |  |
| 773 | -50 |  | 778 | -57 |  | 784 | -50 |  | 774 | -48 |  |
| 774 | -50 |  | 780 | -57 |  | 783 | -49 |  | 773 | -49 |  |
|  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 775 | -41 |  | 775 | -50 |  | 787 | -42 |  | 779 | -40 |  |
| 776 | -41 |  | 775 | -46 |  | 786 | -35 |  | 780 | -40 |  |
| 776 | -41 |  | 775 | -43 |  | 786 | -33 |  | 778 | -41 |  |
| 777 | -45 |  | 778 | -42 |  | 782 | -26 |  | 779 | -42 |  |
| 778 | -49 |  | 780 | -44 |  | 777 | -23 |  | 781 | -43 |  |
| 778 | -49 |  | 783 | -44 |  | 776 | -23 |  | 787 | -44 |  |
| 778 | -49 |  | 787 | -46 |  | 777 | -25 |  | 790 | -43 |  |
| 776 | -49 |  | 789 | -45 |  | 779 | -33 |  | 790 | -42 |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-47.7$ StD dev $=6.7$ MAX $=-21.5$ at 1710 GMT ON DAY 29 MIN $=-57.1$ AT 2110 GMT ON DAY 19
* theta (K) * MEAN $=242.40$
* PRESSURE (MB) * MEAN $=776.2$ STD DEV $=6.3$ MAX $=791.7$ at 650 GMT ON DAY 13 MIN $=758.8$ at 1050 GMt ON day 11

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-46.7$ Std dev $=5.7$ maX $=-32.2$ at 910 GMT ON dAY 11 MIN $=-58.2$ at 910 GMT ON DAY 5
* THETA (K) * MEAN $=243.71$
* PRESSURE (MB) * MEAN $=773.3$ STD DEV $=5.1$ MAX $=783.4$ AT 350 GMT ON DAY 26 MIN $=758.6$ AT 1540 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ fROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$



HR PP TT WV DD
PP TT WV DD DAY 2
777 -51
777 -48
776-49
776-48
776-47
778-47
780-46
784-45
DAY 8
$\begin{array}{lllll}00 & 786 & -46 & 17 & 216\end{array}$
$\begin{array}{lllll}03 & 787 & -43 & 13 & 196\end{array}$
$\begin{array}{llllll}06 & 787 & -39 & 14 & 198\end{array}$
$09 \quad 785-37$
$\begin{array}{lll}12 & 783 & -35\end{array}$
$\begin{array}{lll}15 & 780 & -32\end{array}$
$\begin{array}{lllll}18 & 773 & -19 & 1 & 195\end{array}$
$\begin{array}{lllll}21 & 768 & -15 & 10 & 213\end{array}$ DAY 15
$\begin{array}{llll}00 & 768 & -47 & 12 \\ 254\end{array}$
$\begin{array}{llll}03 & 767 & -44\end{array}$
$\begin{array}{lll}06 & 767 & -47\end{array}$
$09 \quad 769-49$
$\begin{array}{lllll}12 & 770 & -50 & 9 & 248\end{array}$
$\begin{array}{llllll}15 & 771 & -51 & 10 & 244\end{array}$
$\begin{array}{llllll}18 & 772 & -51 & 10 & 240\end{array}$
$\begin{array}{lllll}21 & 773 & -51 & 8 & 234\end{array}$ DAY 22
$00 \quad 779$-39
$03 \quad 778$-37
$06 \quad 778$-36
$09 \quad 779$-37
$\begin{array}{llll}12 & 780 & -39\end{array}$
$\begin{array}{lll}15 & 781 & -41\end{array}$
$18 \quad 782-42$
$21 \quad 781$-43 DAY 29
00 781-34
$03 \quad 779$ - 35
06 779-35
$\begin{array}{lllll}09 & 782 & -38 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 781 & -40 & 9 & 84\end{array}$
$\begin{array}{lllll}15 & 782 & -42 & 5 & 40\end{array}$
$\begin{array}{lllll}18 & 782 & -43 & 10 & 12\end{array}$
$21 \quad 782-42$
$\begin{array}{llll}775 & -47 & 13 & 196\end{array}$ DAY 30
780-40
779-40
778-41
779-44
779-45
779-44
778-45
777-43


## 786-44

788-44
790-46
791-44
791-43
$\begin{array}{llll}791 & -41 & 161\end{array}$
791-37
791-37
DAY 10
$\begin{array}{lll}761 & -31 \quad 7206\end{array}$
762-30 12209
$\begin{array}{llllll}763 & -38 & 17 & 158\end{array}$
$\begin{array}{lllll}765 & -36 & 13 & 140\end{array}$
$\begin{array}{lllll}766 & -33 & 15 & 28\end{array}$
$\begin{array}{llll}766 & -34 & 11 & 21\end{array}$
766-29 $10 \quad 28$
$\begin{array}{llll}765 & -28 & 9 & 29\end{array}$
DAY 17
772-53
772-53
$\begin{array}{llll}774 & -55 & 11 & 164\end{array}$
$\begin{array}{llll}775 & -54 & 6 & 163\end{array}$
776-54 13161
777-55
779-54
779-54
DAY 24
773-42 14188
772-41
773-39
775-38
776-32
775-29
774-31
772-34


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-39.0$ Std dev $=8.8$ max $=-15.1$ at 2100 GMT ON dAY 8 MIN $=-55.9$ at 2000 GMt ON dAY 16
* THETA (K) * MEAN $=251.75$
* PRESSURE (MB) * MEAN $=776.6$ STD DEV $=7.2$ MAX $=792.3$ AT 230 GMT ON DAY 4 MIN $=754.7$ at 10 GMt ON DAY 5
* WINDS (M/S) * MEAN $=11.3$ STD DEV $=4.1$ RESULTANT $=2.5$ FROM 197. CONSTANCY $=0.22$ MAX $=21.2$ FROM 165. AT 1400 GMT DAY 1
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $68.7 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllll}\text { PERCENT } & 7 & 15 & 3 & 1 & 4 & 0 & 4 & 12 & 4 & 19 & 14 & 8 & 1 & 3 & 1 & 4\end{array}$

* temperature ( $C$ ) * mean $=-32.5$ Std dev $=5.9$ max $=-19.6$ At 40 GMT ON dAY 8 min $=-45.9$ at 1740 GMt ON dAY 10
* $\operatorname{ThETA}(K)$ * MEAN $=258.92$
* PRESSURE (MB) * MEAN $=774.9$ STD DEV $=5.9$ MAX $=786.0$ at 1230 GMT ON DAY 8 MIN $=757.7$ AT 530 GMT ON DAY 22
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ from 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** at 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $100.0 \%$
 $\begin{array}{lcccccccccccccccc}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT
$\begin{array}{llllllllllllllll}0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-20.3$ STD DEV $=7.0$ MAX $=-8.0$ AT 2350 GMT ON DAY 25 MIN $=-42.2$ AT 1550 GMT ON DAY 3
* THETA (K) * MEAN $=271.15$
* PRESSURE (MB) * MEAN $=783.6$ STD DEV $=9.6$ MAX $=797.9$ AT 1650 GMT ON DAY 22 MIN $=758.9$ AT 610 GMT ON DAY 1
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 $2-4$ 4-6 6-8 8 -10 $10-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* TEMPERATURE (C) * MEAN $=-18.5$ STD DEV $=4.3$ MAX $=-7.8$ AT 2330 GMT ON DAY 7 MIN $=-28.8$ AT 1440 GMT ON DAY 1
* THETA (K) * MEAN $=272.86$
* PRESSURE (MB) * MEAN $=785.1$ STD DEV $=4.6$ MAX $=797.1$ AT 1920 GMT ON DAY 4 MIN $=773.7$ AT 400 GMT ON DAY 13 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX $=12.8$ FROM***** AT 30 GMT DAY 22 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 6$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-5.7$ Std dev $=3.6$ max $=5.2$ AT 630 GMt ON dAY 1 min $=-18.9$ At 1330 GMT ON dAY 31
* theta (K) * MEAN $=267.84$
* PRESSURE (MB) * MEAN $=995.6$ STD DEV $=4.5$ MAX $=1005.5$ at 1230 GMT ON DAY 31 MIN $=986.0$ AT 400 GMT ON DAY 4
* WINDS (M/S) * MEAN $=2.6$ STD DEV $=1.8$ RESULTANT $=1.8$ FROM 75 . CONSTANCY $=0.70 \mathrm{MAX}=13.0$ FROM 202. AT 2320 GMT DAY 14 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.0 \%$ PRESSURE: $2.0 \%$ WINDS: $2.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $\quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 2 & 9 & 19 & 33 & 11 & 7 & 6 & 6 & 1 & 1 & 0 & 0 & 0 & 0 & 1 & 3\end{array}$

* TEMPERATURE (C) * MEAN $=-14.8$ STD DEV $=4.0$ MAX $=-2.2$ AT 220 GMT ON DAY 5 MIN $=-25.2$ AT 1310 GMT ON DAY 17
* THETA (K) * MEAN $=258.50$
* PRESSURE (MB) * MEAN $=997.5$ STD DEV $=5.0$ MAX $=1007.5$ AT 2110 GMT ON DAY 2 MIN $=984.5$ AT 2010 GMT ON DAY 28 * WINDS (M/S) * MEAN $=3.7$ STD DEV $=3.7$ RESULTANT $=1.8$ FROM 103. CONSTANCY $=0.48$ MAX $=27.2$ FROM 210 . AT 620 GMT DAY 20 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.6 \%$ PRESSURE: $3.1 \% \quad$ WINDS: $3.1 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllllll}\text { PERCENT } & 1 & 5 & 19 & 29 & 18 & 5 & 6 & 4 & 4 & 6 & 0 & 1 & 1 & 1 & 0 & 1\end{array}$

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP |  | VV | DD | PP |  | VV | DD | PP |  | VV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 985 | -23 | 5 | 71 | 991 | -22 | 1 | 125 | 999 | -22 | 1 | 122 | 991 | -21 | 1 | 60 | 986 | -19 | 3 | 85 | 987 | -21 | 2 | 63 | 987 | -20 | 0 | 0 |
| 03 | 985 | -21 | 3 | 66 | 992 | -22 | 1 | 68 | 997 | -19 | 0 | 0 | 990 | -20 | 3 | 144 | 986 | -18 | 2 | 94 | 987 | -19 | 2 | 49 | 986 | -17 | 0 | 0 |
| 06 | 985 | -22 | 5 | 63 | 993 | -22 | 3 | 84 | 996 | -21 | 2 | 37 | 990 | -20 | 3 | 30 | 986 | -18 | 3 | 91 | 987 | -21 | 4 | 77 | 985 | -14 | 1 | 331 |
| 09 | 986 | -23 | 5 | 67 | 996 | -26 | 1 | 52 | 994 | -23 | 1 | 68 | 988 | -20 | 3 | 63 | 986 | -19 | 1 | 75 | 988 | -25 | 3 | 66 | 984 | -17 | 1 | 105 |
| 12 | 987 | -23 | 4 | 68 | 997 | -29 | 1 | 42 | 993 | -26 | 3 | 74 | 987 | -25 | 1 | 102 | 986 | -21 | 1 | 71 | 988 | -28 | 2 | 85 | 984 | -18 | 0 | 0 |
| 15 | 988 | -23 | 3 | 81 | 998 | -30 | 1 | 59 | 993 | -26 | 3 | 70 | 986 | -24 | 3 | 56 | 986 | -20 | 1 | 77 | 988 | -30 | 1 | 112 | 984 | -18 | 1 | 80 |
| 18 | 989 | -23 | 2 | 84 | 999 | -27 | 2 | 105 | 993 | -26 | 2 | 112 | 986 | -23 | 2 | 129 | 987 | -22 | 4 | 75 | 988 | -28 | 0 | 0 | 984 | -25 | 6 | 67 |
| 21 | 990 | -23 | 1 | 94 | 999 | -26 | 1 | 112 | 992 | -25 | 0 | 0 | 986 | -20 | 4 | 66 | 987 | -22 | 0 | 0 | 988 | -25 | 0 | 0 | 985 | -26 | 6 | 49 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 986 | -25 | 4 | 57 | 991 | -23 | 4 | 153 | 992 | -19 | 8 | 147 | 984 | -25 | 4 | 61 | 979 | -26 | 2 | 81 | 970 | -23 | 2 | 29 | 979 | -25 | 2 | 75 |
| 03 | 986 | -23 | 5 | 59 | 991 | -22 | 4 | 161 | 990 | -18 | 6 | 132 | 983 | -24 | 4 | 70 | 977 | -26 | 1 | 92 | 970 | -21 | 1 | 46 | 979 | -23 | 4 | 98 |
| 06 | 987 | -24 | 3 | 56 | 992 | -22 | 5 | 167 | 989 | -20 | 8 | 75 | 982 | -23 | 5 | 68 | 976 | -25 | 0 | 0 | 970 | -23 | 2 | 45 | 980 | -22 | 2 | 75 |
| 09 | 987 | -25 | 2 | 99 | 993 | -22 | 6 | 161 | 989 | -21 | 5 | 52 | 981 | -27 | 3 | 68 | 974 | -28 | 0 | 0 | 971 | -26 | 2 | 6 | 981 | -24 | 0 | 0 |
| 12 | 987 | -26 | 3 | 80 | 993 | -22 | 10 | 171 | 988 | -23 | 3 | 49 | 981 | -29 | 3 | 74 | 973 | -32 | 2 | 9 | 972 | -29 | 2 | 87 | 983 | -26 | 2 | 137 |
| 15 | 988 | -24 | 3 | 63 | 994 | -23 | 11 | 170 | 987 | -28 | 2 | 52 | 980 | -30 | 3 | 67 | 971 | -32 | 0 | 0 | 973 | -30 | 3 | 63 | 986 | -25 | 2 | 156 |
| 18 | 989 | -24 | 4 | 73 | 993 | -22 | 10 | 158 | 987 | -28 | 3 | 22 | 980 | -32 | 2 | 87 | 971 | -29 | 1 | 22 | 975 | -25 | 3 | 113 | 988 | -25 | 8 | 39 |
| 21 | 990 | -24 | 3 | 64 | 993 | -20 | 7 | 154 | 986 | -26 | 3 | 30 | 980 | -28 | 4 | 61 | 970 | -23 | 1 | 33 | 977 | -28 | 2 | 59 | 990 | -22 | 1 | 23 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 992 | -20 | 5 | 40 | 992 | -28 | 0 | 0 | 989 | -25 | 2 | 115 | 993 | -22 | 1 | 323 | 997 | -26 | 6 | 71 | 996 | -29 | 5 | 53 | 992 | -32 | 1 | 87 |
| 03 | 993 | -21 | 1 | 142 | 991 | -27 | 2 | 29 | 989 | -25 | 2 | 28 | 994 | -23 | 4 | 171 | 996 | -26 | 7 | 70 | 996 | -28 | 4 | 60 | 991 | -31 | 0 | 0 |
| 06 | 993 | -22 | 3 | 36 | 989 | -27 | 0 | 0 | 989 | -25 | 2 | 74 | 996 | -23 | 5 | 49 | 997 | -27 | 4 | 74 | 995 | -29 | 4 | 88 | 991 | -32 | 1 | 23 |
| 09 | 994 | -26 | 2 | 108 | 988 | -31 | 1 | 46 | 989 | -24 | 2 | 90 | 997 | -24 | 5 | 66 | 997 | -27 | 5 | 81 | 994 | -33 | 2 | 88 | 990 | -35 | 0 | 0 |
| 12 | 994 | -28 | 3 | 47 | 988 | -26 | 1 | 71 | 989 | -24 | 1 | 98 | 997 | -25 | 6 | 66 | 997 | -29 | 0 | 0 | 993 | -34 | 2 | 153 | 990 | -32 | 0 | 0 |
| 15 | 994 | -28 | 0 | 0 | 987 | -27 | 1 | 97 | 989 | -24 | 2 | 64 | 997 | -27 | 5 | 68 | 996 | -30 | 1 | 116 | 992 | -35 | 0 | 0 | 990 | -32 | 0 | 0 |
| 18 | 995 | -29 | 0 | 0 | 988 | -33 | 1 | 39 | 990 | -24 | 4 | 156 | 996 | -27 | 5 | 74 | 996 | -33 | 2 | 109 | 992 | -31 | 0 | 0 | 991 | -31 | 0 | 0 |
| 21 | 994 | -29 | 0 | 0 | 988 | -30 | 2 | 49 | 992 | -23 | 6 | 170 | 996 | -27 | 5 | 75 | 996 | -34 | 2 | 80 | 992 | -32 | 3 | 4 | 992 | -28 | 0 | 0 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  |  | 28 |  |
| 00 | 993 | -28 | 0 | 0 | 998 | -26 | 0 | 0 | 1001 | -20 | 0 | 0 | 1006 | -33 | 0 | 0 | 1006 | -26 | 4 | 45 | 996 | -24 | 2 | 78 | 987 | -32 | 3 | 53 |
| 03 | 994 | -23 | 0 | 0 | 999 | -28 | 4 | 50 | 1001 | -23 | 0 | 0 | 1007 | -32 | 2 | 40 | 1005 | -26 | 0 | 0 | 994 | -24 | 4 | 82 | 985 | -29 | 3 | 45 |
| 06 | 994 | -30 | 2 | 66 | 999 | -28 | 2 | 67 | 1001 | -26 | 0 | 0 | 1008 | -33 | 0 | 0 | 1004 | -29 | 0 | 0 | 993 | -24 | 0 | 0 | 983 | -29 | 2 | 64 |
| 09 | 995 | -33 | 0 | 0 | 999 | -27 | 0 | 0 |  |  |  |  | 1008 | -35 | 3 | 49 | 1003 | -25 | 1 | 358 | 993 | -25 | 0 | 0 | 981 | -31 | 1 | 161 |
| 12 | 996 | -30 | 0 | 0 | 1000 | -27 | 0 | 0 | 1001 | -25 | 1 | 50 | 1009 | -33 | 1 | 66 | 1003 | -30 | 2 | 70 | 991 | -26 | 0 | 0 | 979 | -29 | 1 | 210 |
| 15 | 996 | -29 | 0 | 0 | 1000 | -26 | 2 | 54 | 1002 | -23 | 0 | 0 | 1008 | -33 | 1 | 43 | 1001 | -27 | 7 | 46 | 990 | -26 | 5 | 42 | 976 | -28 | 0 | 0 |
| 18 | 997 | -26 | 0 | 0 | 1001 | -28 | 0 | 0 | 1003 | -32 | 0 | 0 | 1008 | -26 | 0 | 0 | 999 | -27 | 3 | 66 | 989 | -26 | 1 | 30 | 973 | -29 | 0 | 0 |
| 21 | 998 | -27 | 0 | 0 | 1001 | -27 | 0 | 0 | 1004 | -34 | 0 | 0 | 1007 | -26 | 3 | 25 | 998 | -26 | 1 | 94 | 990 | -26 | 1 | 37 | 970 | -29 | 2 | 118 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 968 | -30 | 2 | 54 | 970 | -18 | 4 | 212 | 977 | -23 | 3 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 966 | -29 | 1 | 49 | 974 | -21 | 8 | 144 | 976 | -21 | 2 | 225 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 965 | -27 | 0 | 0 | 974 | -22 | 2 | 71 | 977 | -19 | 2 | 272 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 965 | -25 | 0 | 0 | 975 | -22 | 3 | 296 | 980 | -16 | 8 | 175 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 965 | -25 | 0 | 0 | 976 | -20 | 3 | 258 | 984 | -22 | 12 | 172 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 964 | -27 | 2 | 291 | 976 | -18 | 2 | 358 | 985 | -23 | 8 | 116 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 963 | -23 | 3 | 251 | 976 | -17 | 6 | 191 | 984 | -22 | 8 | 137 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 965 | -19 |  | 219 | 976 | -17 |  | 201 | 984 | -26 | 5 | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-25.3$ STD DEV $=4.2$ MAX $=-13.9$ AT 620 GMT ON DAY 7 MIN $=-37.0$ AT 740 GMT ON DAY 21
* THETA (K) * MEAN $=248.65$
* PRESSURE (MB) * MEAN $=988.7$ STD DEV $=9.5$ MAX $=1008.9$ AT 1030 GMT ON DAY 25 MIN $=962.1$ AT 1720 GMT ON DAY 29
* WINDS (M/S) * MEAN $=2.4$ STD DEV $=2.3$ RESULTANT $=1.6$ FROM 86. CONSTANCY $=0.64$ MAX $=14.2$ FROM 167. AT 940 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \% \quad$ WINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20$

PERCENT

$$
\begin{array}{llllllllllllllll}
2 & 7 & 19 & 31 & 14 & 7 & 4 & 6 & 4 & 2 & 1 & 1 & 1 & 1 & 1 & 1
\end{array}
$$



* TEMPERATURE (C) * MEAN $=-29.7$ STD DEV $=7.5$ MAX $=-7.8$ AT 1830 GMT ON DAY 5 MIN $=-50.0$ AT 2230 GMT .ON DAY 24
* THETA (K) * MEAN $=243.83$
* PRESSURE (MB) * MEAN $=994.7$ STD DEV $=11.0$ MAX $=1022.2$ AT 120 GMT ON DAY 19 MIN $=971.4$ AT 1930 GMT ON DAY 5
* WINDS (M/S) * MEAN $=1.4$ STD DEV $=2.3$ RESULTANT $=0.6$ FROM 113. CONSTANCY $=0.39$ MAX $=26.4$ FROM 174. AT 2300 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.3 \%$ PRESSURE: $2.9 \%$ WINDS: $2.9 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W UNW NW NNW
PERCENT

MAY 97
$\begin{array}{llrl}\text { HR } & \text { PP TT } & \text { VV } & \text { D } \\ & \text { DAY } & 1\end{array}$ $\begin{array}{lllll}00 & 993 & -43 & 0 & 0\end{array}$ $\begin{array}{llll}03 & 993 & -42 & 0\end{array} 0$ $\begin{array}{llll}06 & 992 & -38 & 0\end{array} 0$ $\begin{array}{llll}09 & 992 & -33 & 0\end{array} 0$ $\begin{array}{llll}12 & 991 & -29 & 0\end{array} 0$ $\begin{array}{lllll}15 & 988 & -20 & 0 & 0\end{array}$ $\begin{array}{lllll}18 & 986 & -25 & 0 & 0\end{array}$ $\begin{array}{lllll}21 & 984 & -24 & 0 & 0\end{array}$ DAY 8
$\begin{array}{lllll}00 & 992 & -34 & 1 & 358\end{array}$
$\begin{array}{lllll}03 & 992 & -32 & 3 & 333\end{array}$
$\begin{array}{lllll}06 & 991 & -33 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 991 & -38 & 3 & 61\end{array}$
$\begin{array}{lllll}12 & 991 & -33 & 3 & 54\end{array}$
$\begin{array}{lllll}15 & 989 & -35 & 3 & 59\end{array}$
$\begin{array}{lllll}18 & 987 & -35 & 3 & 67\end{array}$
$\begin{array}{lllll}21 & 985 & -36 & 5 & 81\end{array}$ DAY 15
$\begin{array}{lllll}00 & 994 & -27 & 12 & 160\end{array}$ $\begin{array}{lllll}03 & 994 & -27 & 9 & 175\end{array}$ $\begin{array}{llll}06 & 990 & -28 & 18 \\ 210\end{array}$
$\begin{array}{llll}09 & 989 & -25 & 13 \\ 202\end{array}$
$\begin{array}{lllll}12 & 986 & -26 & 18 & 208\end{array}$
$\begin{array}{llllll}15 & 984 & -22 & 21 & 180\end{array}$
$\begin{array}{lllll}18 & 981 & -19 & 14 & 194\end{array}$
$\begin{array}{llll}21 & 974-1617 & 203\end{array}$
DAY 22
$\begin{array}{llll}00 & 988 & -26 & 6\end{array} 71$
$\begin{array}{lllll}03 & 987 & -26 & 4 & 84\end{array}$
$\begin{array}{lllll}06 & 986 & -26 & 5 & 53\end{array}$
$\begin{array}{lllll}09 & 985 & -26 & 3 & 56\end{array}$
$\begin{array}{lllll}12 & 985 & -26 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 984 & -25 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 982 & -27 & 6 & 206\end{array}$
$\begin{array}{lllll}21 & 982 & -32 & 5 & 50\end{array}$

$$
\text { DAY } 29
$$

$\begin{array}{lllll}00 & 974 & -33 & 2 & 118\end{array}$
$\begin{array}{lllll}03 & 973 & -35 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 972 & -27 & 0 & 0\end{array}$
$\begin{array}{llll}09 & 969 & -25 & 0\end{array} 0$
$\begin{array}{llll}12 & 967 & -25 & 0\end{array}$
$\begin{array}{lllll}15 & 966 & -28 & 0 & 0\end{array}$
$\begin{array}{llll}18 & 967 & -32 & 0\end{array} 0$
$\begin{array}{lllll}21 & 969 & -33 & 0 & 0\end{array}$

PP TT VV DD PP TT VV DD DAY 2
984-27 0
980-25 0
976-21 0 0
971-18 0
972-17 10184
968-19 2358
967-20 0
968-16 5157 DAY 9
984-39 0 0
983-41 250
983-41 266
$\begin{array}{llll}981 & -42 & 2 & 78\end{array}$
$\begin{array}{llll}981 & -43 & 2 & 68\end{array}$
$\begin{array}{llll}981 & -43 & 4 & 43\end{array}$
980-45 2143
$980-4400$ DAY 16
970-15 15209 $965-1321201$
$959-1326213$
958-12 24215
958-11 27205
$959-1018194$
956-11 22212
$959-1216215$ DAY 23
$\begin{array}{llll}980 & -31 & 4 & 46\end{array}$
979-35 1136
$\begin{array}{llll}978 & -37 & 0 & 0\end{array}$
977-35 00
$\begin{array}{llll}977 & -32 & 0 & 0\end{array}$
$\begin{array}{llll}978 & -33 & 0 & 0\end{array}$
$\begin{array}{llll}979 & -31 & 0 & 0\end{array}$
979-32 0 DAY 30
971-32 0
$972-31 \quad 3104$
974-29 0
976-30 0
$\begin{array}{llll}979 & -29 & 62\end{array}$
$\begin{array}{llll}980 & -31 & 4 & 37\end{array}$
$\begin{array}{llll}981 & -21 & 0 & 0\end{array}$

DAY 3
968-15 15172
969-17 19203
975-20 8167
975 -21 8163
973-20 11129
972 -17 10198
$971-1710 \quad 201$
$969-16 \quad 4239$ DAY 10
980-42 0 980-39 0 0 $\begin{array}{llll}980 & -38 & 2 & 54\end{array}$ $\begin{array}{llll}981 & -40 & 5 & 28\end{array}$ $\begin{array}{llll}983 & -38 & 6 & 39\end{array}$ $\begin{array}{llll}984 & -40 & 2 & 82\end{array}$ 984-45 0 984-39 0 DAY 17
$\begin{array}{llll}968 & -24 & 10 & 167\end{array}$ $971-17 \quad 20199$
974-18 $20 \quad 212$
976-18 $24-217$
$980-17 \quad 23205$
$\begin{array}{llll}981 & -15 & 19 & 208\end{array}$
987-16 14194
$991-18 \quad 7 \quad 156$ DAY 24
980-27 1230
$980-24 \quad 4352$
980-22 17201
$\begin{array}{llll}983 & -22 & 5 & 178\end{array}$
$\begin{array}{llll}984 & -27 & 8 & 94\end{array}$
$\begin{array}{llll}983 & -28 & 7 & 47\end{array}$
$\begin{array}{llll}985 & -26 & 2 & 37\end{array}$
985-26 0 DAY 31
982-19 11187
983-20 5146
$\begin{array}{llll}984 & -19 & 6 & 184\end{array}$
986-23 13153
987-20 7165
$988-2314163$
$988-2310160$

| PP | IT |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 968 | -18 | 4 | 227 | 972 | -16 | 14 | 180 | 980 | -24 | 4 | 66 | 981 | -31 | 0 | 0 |
| 967 | -21 | 3 | 324 | 974 | -17 | 7 | 135 | 981 | -26 | 4 | 42 | 981 | -34 | 3 | 50 |
| 966 | -16 | 3 | 192 | 974 | -20 | 7 | 66 | 982 | -25 | 4 | 37 | 982 | -31 | 4 | 49 |
| 965 | -16 | 6 | 2 | 975 | -20 | 3 | 77 | 982 | -24 | 3 | 14 | 983 | -38 | 2 | 129 |
| 966 | -16 | 3 | 33 | 975 | -22 | 0 | 0 | 982 | -24 | 0 | 0 | 984 | -37 | 2 | 74 |
| 967 | -14 | 2 | 268 | 975 | -20 | 0 | 0 | 983 | -25 | 0 | 0 | 987 | -33 | 3 | 71 |
| 968 | -15 | 5 | 285 | 978 | -17 | 6 | 171 | 982 | -25 | 1 | 331 | 989 | -36 | 3 | 81 |
| 969 | -13 | 12 | 199 | 980 | -20 | 4 | 136 | 981 | -27 | 2 | 341 |  |  |  |  |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 98 | -39 | 0 | 0 | 986 | -42 | 0 | 0 | 992 | -41 | 4 | 11 | 996 | -40 | 5 | 49 |
| 984 | -39 | 0 | 0 | 986 | -46 | 2 | 29 | 991 | -34 | 0 | 0 | 996 | -45 | 0 | 0 |
| 984 | -40 | 0 | 0 | 987 | -42 | 3 | 52 | 992 | -35 | 5 | 49 | 996 | -43 | 0 | 0 |
| 984 | -38 | 0 | 0 | 987 | -45 | 2 | 81 | 993 | -38 | 3 | 53 | 997 | -42 | 1 | 29 |
| 985 | -42 | 0 | 0 | 988 | -41 | 5 | 42 | 994 | -41 | 0 | 0 | 996 | -40 | 0 | 0 |
| 985 | -42 | 4 | 59 | 989 | -45 | 0 | 0 | 994 | -39 | 6 | 37 | 996 | -39 | 0 | 0 |
| 985 | -42 | 3 | 54 | 990 | -44 | 3 | 88 | 995 | -39 | 0 | 0 | 995 | -36 | 0 | 0 |
| 986 | -44 | 0 | 0 | 991 | -42 | 4 | 36 | 995 | -42 | 0 | 0 | 994 | -37 | 0 | 0 |
|  | DAY | 18 |  |  | DAY | 19 |  |  |  | 20 |  |  | DAY | 21 |  |
| 991 | -15 | 11 | 201 | 973 | -17 | 0 | 0 | 986 | -16 | 1 | 14 | 994 | -22 | 4 | 46 |
| 987 | -16 | 2 | 315 | 972 | -14 | 3 | 66 | 986 | -18 | 1 | 92 | 994 | -22 | 2 | 23 |
| 984 | -19 | 3 | 334 | 974 | -19 | 1 | 247 | 986 | -18 | 2 | 343 | 994 | -20 | 2 | 36 |
| 980 | -15 | 7 | 345 | 976 | -18 | 2 | 199 | 987 | -20 | 1 | 28 | 994 | -22 | 2 | 52 |
| 976 | -14 | 8 | 340 | 979 | -11 | 5 | 191 | 989 | -19 | 5 | 182 | 993 | -22 | 1 | 18 |
| 975 | -15 | 1 | 217 | 980 | -12 | 3 | 187 | 991 | -24 | 3 | 21 | 992 | -24 | 5 | 71 |
| 974 | -14 | 2 | 149 | 982 | -12 | 5 | 208 | 992 | -20 | 2 | 45 | 991 | -26 | 5 | 85 |
| 973 | -17 | 1 | 265 | 984 | -13 | 6 | 198 | 993 | -21 | 4 | 35 | 989 | -26 | 5 | 56 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 985 | -25 | 0 | 0 | 985 | -34 | 2 | 104 | 998 | -34 | 0 | 0 | 997 | -35 | 3 | 84 |
| 985 | -22 | 0 | 0 | 984 | -29 | 2 | 137 | 999 | -34 | 1 | 289 | 994 | -35 | 2 | 61 |
| 985 | -18 | 4 | 174 | 985 | -28 | 0 | 0 | 999 | -32 | 0 |  | 991 | -37 | 0 | 0 |
| 987 | -20 | 9 | 160 | 986 | -29 | 1 | 232 | 999 | -28 | 1 | 127 | 987 | -38 | 0 | 0 |
| 988 | -23 | 8 | 36 | 988 | -29 | 0 | 0 |  |  |  |  | 982 | -37 | 0 | 0 |
| 988 | -27 | 6 | 37 | 990 | -32 | 0 | 0 | 999 | -31 | 0 | 0 | 978 | -36 | 0 | 0 |
| 987 | -30 | 3 | 50 | 994 | -31 | 2 | 144 | 999 | -28 | 3 | 80 | 975 | -32 | 0 | 0 |
| 986 | -31 | 3 | 68 | 997 | -35 | 0 | 0 | 998 | -34 | 3 | 47 | 974 | -35 | 3 | 94 |

* temperature ( $C$ ) * mean $=-27.5$ Std dev $=9.4$ max $=-10.0$ at 1640 gmt on day 19 min $=-45.9$ at 310 gmt on day 12
* theta (K) * MEAN $=246.91$
* PRESSURE (MB) * MEAN $=982.4$ STD DEV $=9.1$ MAX $=999.3$ AT 320 GMT ON DAY 27 MIN $=956.2$ AT 1800 GMT ON DAY 16
* WINDS (M/S) * MEAN $=4.4$ STD DEV $=5.8$ RESULTANT $=2.0$ FROM 176. CONSTANCY $=0.46$ MAX $=30.7$ FROM 203. at 1220 GMT DAY 16 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllll}\text { PERCENT } & 3 & 6 & 21 & 10 & 7 & 2 & 6 & 7 & 8 & 17 & 4 & 1 & 1 & 1 & 1 & 4\end{array}$

| HR | PP | TT | VV | DD | PP |  | VV | D D | PP |  | W | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | day | 2 | 2 |  | DAY | 3 |  |  | day | 4 |  |  | DAY | 5 |  |  | day | 6 |  |  | DAY | 7 |  |
| 00 | 992 | -21 | 8 | 160 | 994 | -22 |  | 4106 | 1002 | -33 | 3 | 35 | 1008 | -34 | 1 | 71 | 997 | -31 | 3 | 130 | 992 | -32 | 3 | 81 | 992 | -38 | 0 |  |
| 03 | 992 | -22 | 6 | 143 | 995 | -24 | 5 | 529 | 1003 | -32 | 3 | 98 | 1006 | -35 | 3 | 45 | 995 | -31 | 1 | 182 | 992 | -35 | 3 | 57 | 988 | -31 | 0 | 0 |
| 06 | 992 | -20 | 5 | 172 | 996 | -24 | 4 | 42 | 1004 | -35 | 1 | 84 | 1005 | -37 | 3 | 144 | 994 | -31 | 1 | 306 | 992 | -34 | 2 | 92 | 985 | -33 | 0 | 0 |
| 09 | 993 | -20 | 12 | 203 | 997 | -27 | 3 | 37 | 1005 | -37 | 0 | 0 | 1004 | -34 | 1 | 80 | 992 | -31 | 1 | 66 | 993 | -32 | 3 | 57 | 982 | -25 | 0 | 0 |
| 12 | 993 | -20 | 13 | 206 | 999 | -26 | 4 | 426 | 1006 | -33 | 3 | 113 | 1003 | -31 | 3 | 129 | 992 | -29 | 0 | 0 | 994 | -36 | 1 | 98 | 979 | -27 | 0 | 0 |
| 15 | 993 | -22 | 2 | 303 | 1000 | -28 | 4 | 471 | 1007 | -30 | 7 | 40 | 1001 | -31 | 2 | 88 | 992 | -32 | 3 | 59 | 995 | -38 | 1 | 42 | 978 | -28 | 0 | 0 |
| 18 | 993 | -22 | 0 | 0 | 1000 | -30 | 2 | 250 | 1009 | -29 | 6 | 60 | 999 | -31 | 2 | 104 | 992 | -31 | 2 | 60 | 994 | -38 | 0 | 0 | 979 | -24 | 1 | 171 |
| 21 | 994 | -21 | 3 | 216 | 1001 | -33 | 3 | 32 | 1009 | -29 | 4 | 53 | 998 | -31 | 2 | 112 | 992 | -31 | 1 | 120 | 993 | -39 | 0 | 0 | 980 | -28 | 1 | 21 |
|  |  | DAY | 8 |  |  | DAY | 9 | 9 |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 982 | -23 | 0 | 0 | 980 | -16 | 18 | 819 | 973 | -22 | 5 | 172 | 986 | -16 | 3 | 219 | 982 | -17 | 0 | 0 | 983 | -20 | 0 | 0 | 978 | -26 | 0 | 0 |
| 03 | 984 | -23 | 0 | 0 | 979 | -16 | 14 | 215 | 975 | -23 | 5 | 59 | 985 | -15 | 2 | 156 | 982 | -17 | 2 | 78 | 982 | -20 |  | 348 | 979 | -24 | - | 0 |
| 06 | 985 | -13 | 6 | 178 | 978 | -16 | 4 | 225 | 977 | -23 | 2 | 92 | 984 | -17 | 9 | 163 | 982 | -20 | 2 | 205 | 980 | -25 | 0 | 0 | 979 | -15 | 0 | 0 |
| 09 | 986 | -20 | 0 | 0 | 974 | -20 | 2 | 7 | 978 | -23 | 1 | 135 | 984 | -19 | 5 | 28 | 983 | -18 | 0 | 0 | 978 | -23 | 0 | 0 | 980 | -19 | 0 | 0 |
| 12 | 986 | -18 | 0 | 0 | 971 | -18 |  | 345 | 981 | -22 |  | 232 | 983 | -19 | 0 | 0 | 984 | -18 | 0 | 0 | 977 | -20 | 0 | 0 | 981 | -17 | 0 | 0 |
| 15 | 985 | -20 | 0 | 0 | 969 | -18 | 5 | 324 | 983 | -20 |  | 240 | 983 | -19 | 0 | 0 | 984 | -17 | 0 | 0 | 975 | -23 | 0 | 0 | 982 | -17 | 0 | 0 |
| 18 | 985 | -21 | 2 | 16 | 968 | -20 |  | 250 | 985 | -18 | 7 | 223 | 982 | -16 | 5 | 143 | 984 | -17 | 0 | 0 | 975 | -26 | 0 | 0 | 983 | -22 | 0 | 0 |
| 21 | 984 | -17 | 6 | 163 | 970 | -20 | 3 | 180 | 985 | -17 |  | 210 | 982 | -19 | 0 | 0 | 984 | -16 | 0 | 0 | 976 | -28 | 0 | 0 | 985 | -20 | 0 | 0 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  |  | 21 |  |
| 00 | 987 | -27 | 0 | 0 | 1001 | -35 | 0 | 0 | 995 | -34 | 0 | 0 | 990 | -38 | 0 | 0 | 991 | -16 | 21 | 217 | 1003 | -14 |  | 133 | 1008 | -7 | 8 | 174 |
| 03 | 989 | -32 | 0 | 0 | 999 | -35 | 0 | 0 | 995 | -39 | 0 | 0 | 988 | -30 | 0 | 0 | 992 | -15 | 18 | 202 | 1003 | -20 | 2 | 61 | 1006 | -9 | 6 | 172 |
| 06 | 991 | -28 | 0 | 0 | 998 | -35 | 0 | 0 | 992 | -36 | 0 | 0 | 989 | -22 | 0 | 0 | 991 | -14 | 24 | 205 | 1005 | -15 |  | 147 | 1005 |  | 6 | 70 |
| 09 | 994 | -29 | 0 | 0 | 996 | -36 | 0 | 0 | 990 | -38 | 0 | 0 | 992 | -21 | 0 | 0 | 996 | -14 | 23 | 212 | 1007 | -12 | 1 | 87 | 1004 | -14 | 8 | 170 |
| 12 | 999 | -28 | 0 | 0 | 995 | -37 | 5 | 36 | 989 | -32 | 0 | 0 | 992 | -20 | 0 | 0 | 999 | -13 | 25 | 209 | 1010 | -13 |  | 178 | 1004 | -12 | 14 | 167 |
| 15 | 1001 | -29 | 0 | 0 |  |  |  |  | 990 | -34 | 0 | 0 | 991 | -18 | 1 | 201 | 1004 | -11 | 23 | 196 | 1010 | -11 | 17 | 196 | 1006 | -13 | 8 | 146 |
| 18 | 1002 | -31 | 0 | 0 | 994 | -38 | 0 | 0 | 992 | -40 | 0 | 0 | 989 | -16 | 22 | 198 | 1003 | -10 | 17 | 201 | 1012 | -11 | 10 | 191 | 1009 | -12 | 13 | 180 |
| 21 | 1002 | -34 | 0 | 0 | 994 | -35 | 0 | 0 | 991 | -38 | 0 | 0 | 990 | -15 | 21 | 189 | 1004 | -12 | 9 | 135 | 1010 | -9 | 11 | 205 | 1012 | -10 | 5 | 167 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  |  | $26$ |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 1014 | -14 | 4 | 49 | 1010 | -20 | 1 | 194 | 1001 | -25 | 5 | 21 | 1008 | -22 | 4 | 9 | 1012 | -31 | 2 | 129 | 1013 | -36 | 2 | 49 | 1016 | -33 | 2 | 71 |
| 03 | 1016 | -16 | 3 | 132 | 1008 | -16 | 1 | 156 | 1002 | -26 | 7 | 56 | 1008 | -21 | 1 | 274 | 1013 | -32 | 3 | 70 | 1013 | -35 | 3 | 26 | 1015 | -33 | 5 | 63 |
| 06 | 1015 | -11 | 15 | 201 | 1005 | -22 | 3 | 47 | 1004 | -28 | 4 | 68 | 1008 | -22 | 2 | 153 | 1013 | -30 | 4 | 57 | 1013 | -35 | 3 | 21 | 1015 | -32 | 2 | 63 |
| 09 | 1016 | -11 | 4 | 189 | 1003 | -23 | 4 | 47 | 1006 | -29 | 4 | 70 | 1007 | -32 | 3 | 70 | 1012 | -31 | 4 | 63 | 1014 | -34 | 2 | 35 | 1014 | -30 | 6 | 170 |
| 12 | 1016 | -13 | 7 | 213 | 1001 | -24 | 4 | 74 | 1007 | -30 | 0 | 0 | 1008 | -32 | 5 | 77 | 1013 | -31 | 4 | 67 | 1014 | -34 | 2 | 75 | 1014 | -31 | 3 | 300 |
| 15 | 1015 | -12 | 12 | 199 | 999 | -22 | 3 | 80 | 1008 | -28 | 2 | 180 | 1008 | -30 | 6 | 47 | 1012 | -31 | 1 | 1 | 1015 | -34 | 2 | 67 | 1014 | -33 | 5 | 33 |
| 18 | 1015 | -20 | 7 | 36 | 999 | -19 | 4 | 95 | 1008 | -26 | 1 | 5 | 1009 | -27 | 5 | 50 | 1012 | -35 | 4 | 57 | 1016 | -33 |  | 357 | 1014 | -33 | 4 | 43 |
| 21 | 1013 | -16 | 4 | 32 | 1000 | -22 | 5 | 174 | 1007 | -19 |  | 247 | 1011 | -28 | 3 | 60 | 1012 | -34 | 4 | 53 | 1016 | -33 | 2 | 73 | 1014 | -34 | 0 | 0 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 1014 | -34 | 4 | 28 | 1008 | -37 | 4 | 137 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 1013 | -33 | 3 | 68 | 1006 | -35 | 4 | 82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 1013 | -35 | 4 | 30 | 1005 | -36 | 2 | 122 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 1013 | -36 | 4 | 59 | 1004 | -38 | 2 | 77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 1012 | -37 | 4 | 56 | 1002 | -41 | 4 | 68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 1011 | -38 | 4 | 49 | 1002 | -42 | 2 | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 1011 | -40 | 3 | 60 | 1001 | -43 |  | 126 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 1009 | -37 | 6 | 88 | 1000 | -42 |  | 68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* Theta (K) * MEAN $=247.84$
* PRESSURE (MB) * MEAN $=996.8$ STD DEV $=12.3$ mAX $=1016.7$ AT 730 GMT ON DAY 22 MIN $=967.7$ AT 1640 GMT ON DAY 9
* WINDS (M/S) * MEAN $=3.7$ STD DEV $=4.8$ RESULTANT $=1.5$ FROM 159. CONSTANCY $=0.40$ MAX $=28.7$ FROM 202. AT 1040 GMT DAY 19
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ HINDS: $0.4 \%$
 $\begin{array}{lllllllllllllllllll}\text { PERCENT: } & 47 & 23 & 13 & 5 & 3 & & 1 & 2 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT
$\begin{array}{llllllrrrrrrrrrr}4 & 7 & 12 & 21 & 8 & 4 & 8 & 5 & 10 & 11 & 5 & 2 & 1 & 1 & 1 & 1\end{array}$

JUL 97
$\begin{array}{lll}\text { HR } & \text { PP } & \text { TT NV } \\ & \text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 999 & -43 & 1 & 111\end{array}$
$\begin{array}{lllll}03 & 997 & -45 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 996 & -46 & 1 & 68\end{array}$
$\begin{array}{lllll}09 & 995 & -46 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 994 & -45 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 994 & -47 & 2 & 87\end{array}$
$\begin{array}{lllll}18 & 994 & -45 & 1 & 70\end{array}$
$\begin{array}{lllll}21 & 994 & -45 & 2 & 94\end{array}$ DAY 8
00 975-19 2191
$\begin{array}{lllll}03 & 975 & -23 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 977 & -23 & 5 & 53\end{array}$
$\begin{array}{lllll}09 & 980 & -24 & 6 & 68\end{array}$
$\begin{array}{llll}12 & 981 & -18 & 11 \\ 201\end{array}$
$\begin{array}{lllll}15 & 982 & -24 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 982 & -23 & 1 & 53\end{array}$
$\begin{array}{llll}21 & 981 & -19 & 513\end{array}$ DAY 15
$\begin{array}{llll}00 & 977 & -36 & 2182\end{array}$ $\begin{array}{lllll}03 & 978 & -35 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 979 & -37 & 0\end{array} 0$
$\begin{array}{lllll}09 & 981 & -36 & 2 & 37\end{array}$
$\begin{array}{llll}12 & 984 & -32 & 0\end{array} 0$
$\begin{array}{llll}15 & 985 & -33 & 0\end{array} 0$
$\begin{array}{llll}18 & 986 & -35 & 0\end{array}$
$\begin{array}{lllll}21 & 987 & -34 & 1 & 345\end{array}$ DAY 22
$\begin{array}{lllll}00 & 995 & -43 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 994 & -44 & 0 & 0\end{array}$
$\begin{array}{llll}06 & 992 & -44 & 0\end{array}$
$\begin{array}{llll}09 & 990 & -40 & 0\end{array}$
$\begin{array}{lllll}12 & 990 & -33 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 991 & -32 & 4 & 122\end{array}$
$\begin{array}{lllll}18 & 990 & -40 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 990 & -41 & 0\end{array}$ DAY 29
$\begin{array}{lllll}00 & 996 & -41 & 6 & 66\end{array}$
$\begin{array}{lllll}03 & 997 & -43 & 3 & 78\end{array}$
$\begin{array}{llll}06 & 997 & -45 & 0\end{array}$
$\begin{array}{lllll}09 & 995 & -45 & 0 & 0\end{array}$
$\begin{array}{lllll}12 & 992 & -45 & 3 & 75\end{array}$
$\begin{array}{lllll}15 & 990 & -43 & 3 & 88\end{array}$
$\begin{array}{lllll}18 & 987 & -40 & 2 & 130\end{array}$

| PP |  |  | DD | pp |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 994 | -47 | 0 | 0 | 994 | -32 | 0 | 0 |
| 994 | -47 | 0 | 0 | 992 | -31 | 0 | 0 |
| 995 | -43 | 0 | 0 | 990 | -29 | 0 | 0 |
| 995 | -39 | 0 | 0 | 987 | -23 | 0 | 0 |
| 995 | -36 | 1 | 184 | 984 | -26 | 0 | 0 |
| 995 | -37 | 0 | 0 | 980 | -26 | 0 | 0 |
| 995 | -35 | 0 | 0 | 978 | -28 | 0 | 0 |
| 994 | -33 | 0 | 0 | 977 | -25 | 0 | 0 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 980 | -22 | 0 | 0 | 989 | -21 | 3 | 171 |
| 982 | -20 | 0 | 0 | 987 | -21 | 3 | 215 |
| 985 | -25 | 4 | 157 | 983 | -22 | 5 | 42 |
| 989 | -22 | 3 | 156 | 981 | -23 | 0 | 0 |
| 992 | -24 | 7 | 122 | 978 | -22 | 1 | 21 |
| 991 | -22 | 14 | 216 | 975 | -27 | 3 | 64 |
| 993 | -22 | 10 | 192 | 972 | -30 | 5 | 50 |
| 991 | -22 | 6 | 187 | 969 | -31 | 5 | 42 |
|  | DAY | 16 |  |  | DAY | 17 |  |
| 990 | -30 | 0 | 0 | 999 | -24 | 0 | 0 |
| 991 | -25 | 4 | 236 | 998 | -24 | 0 | 0 |
| 991 | -29 | 3 | 336 | 998 | -22 | 0 | 0 |
| 993 | -26 | 2 | 46 | 998 | -28 | 4 | 57 |
| 995 | -21 | 6 | 153 | 997 | -29 | 5 | 49 |
| 996 | -21 | 3 | 213 | 996 | -30 | 5 | 46 |
| 997 | -24 | 0 | 0 | 995 | -34 | 4 | 84 |
| 998 | -24 | 2 | 15 | 993 | -35 | 4 | 50 |
|  | DAY | 23 |  |  | DAY | 24 |  |
| 990 | -45 | 0 | 0 | 992 | -43 | 0 |  |
| 989 | -41 | 0 | 0 | 994 | -42 | 0 |  |
| 988 | -42 | 0 | 0 | 996 | -39 | 0 |  |
| 988 | -45 | 0 | 0 | 996 | -33 | 0 |  |
| 988 | -43 | 0 | 0 | 996 | -35 | 0 |  |
| 988 | -41 | 2 | 61 | 996 | -27 | 0 |  |
| 989 | -39 | 0 | 0 | 995 | -27 | 0 | 0 |
| 990 | -42 | 0 | 0 | 996 | -25 | 16 | 189 |
|  | DAY | 30 |  |  | DAY | 31 |  |
| 979 | -38 | 9 | 177 | 987 | -41 | 2 | 126 |
| 980 | -39 | 0 | 0 | 988 | -41 | 3 | 106 |
| 981 | -40 | 0 | 0 | 988 | -41 | 6 | 56 |
| 982 | -43 | 0 | 0 | 990 | -40 | 4 | 50 |
| 983 | -45 | 0 | 0 | 991 | -45 | 1 | 157 |
| 984 | -45 | 2 | 154 | 993 | -44 | 2 | 35 |
| 984 | -40 | 5 | 118 | 995 | -45 | 1 | 90 |
| 986 | -41 | 3 | 43 | 996 | 48 | 2 | 45 |


| PP | TT | WV | DD |
| ---: | ---: | ---: | ---: |
| DAY | 4 |  |  |
| 978 | -21 | 0 | 0 |
| 979 | -27 | 0 | 0 |
| 983 | -15 | 14 | 192 |
| 988 | -17 | 17 | 195 |
| 993 | -17 | 11 | 170 |
| 994 | -17 | 15 | 192 |
| 996 | -16 | 11 | 202 |
| 998 | -17 | 14 | 151 |


$\begin{array}{llllllll}998 & -17 & 9 & 177 & 986 & -21 & 2 & 37\end{array}$ $\begin{array}{llllllll}996 & -16 & 16 & 208 & 986 & -25 & 4 & 70\end{array}$ $\begin{array}{lllllll}995 & -17 & 16 & 195 & 987 & -25 & 5\end{array} 94$
 $\begin{array}{llllllll}994 & -18 & 8 & 171 & 991 & -24 & 10 & 165\end{array}$
990 -20 10165
989-20 4156
987-20 0 DAY 12
$\begin{array}{llll}981 & -35 & 3 & 84\end{array}$ $\begin{array}{llll}986 & -38 & 8 & 78\end{array}$ $\begin{array}{llll}990 & -38 & 5 & 56\end{array}$ $\begin{array}{lllll}993 & -39 & 7 & 49\end{array}$ 995 -39 $4 \quad 71$ $\begin{array}{llll}997 & -39 & 2 & 168\end{array}$ $\begin{array}{llll}997 & -39 & 0 & 0\end{array}$ 998-38 221 DAY 19 993-42 1156 994-40 0 $\begin{array}{llll}994 & -41 & 1 & 178\end{array}$ 995-42 00 995-43 00 995-43 00 996-42 00 $\begin{array}{llll}996 & -44 & 0 & 0\end{array}$ DAY 26 984-35 00 983-31 00 983-29 0 0 $\begin{array}{llll}984 & -30 & 3 & 77\end{array}$ 987-32 00 $\begin{array}{llll}990 & -31 & 0 & 0\end{array}$ $\begin{array}{llll}993 & -34 & 2 & 88\end{array}$ 995-36 00

PP TT W DD

$$
\text { DAY } 7
$$

983-16 10201
$\begin{array}{lll}982 & -17 & 5199\end{array}$
981 - $16 \quad 9205$
980-14 10196
977-14 12216
976-12 9219
976-13 7187
976-12 8164 DAY 14
987-28 0
985-28 1112
983 -29 643
$\begin{array}{llll}981 & -32 & 4 & 73\end{array}$
$\begin{array}{llll}979 & -31 & 5 & 64\end{array}$
$\begin{array}{llll}978 & -32 & 1 & 56\end{array}$
$\begin{array}{llll}977 & -35 & 0 & 0\end{array}$
977-37 0
DAY 21
998-43 0 0
997-42 0
$\begin{array}{llll}997 & -43 & 2 & 74\end{array}$
$\begin{array}{llll}996 & -44 & 0 & 0\end{array}$
$\begin{array}{llll}995 & -45 & 0 & 0\end{array}$
$\begin{array}{llll}995 & -45 & 1 & 87\end{array}$
$\begin{array}{llll}995 & -41 & 0 & 0\end{array}$
995-41 0
DAY 28
$\begin{array}{llll}996 & -41 & 5 & 68\end{array}$
$\begin{array}{llll}997 & -40 & 4 & 87\end{array}$
$\begin{array}{llll}998 & -42 & 3 & 82\end{array}$
998-40 295
998-38 0
$\begin{array}{llll}998 & -38 & 5 & 57\end{array}$
$\begin{array}{llll}997 & -41 & 5 & 74\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-32.6$ Std dev $=9.2$ max $=-11.8$ at 1450 GMT ON DAY 7 MIN $=-48.9$ at 2010 GMT ON DAY 31
* THETA (K) * MEAN $=241.36$
* PRESSURE (MB) * MEAN $=989.1$ STD DEV $=7.9$ MAX $=999.0$ AT 10 GMT ON DAY 17 MIN $=961.2$ AT 750 GMT ON DAY 11
* WINDS (M/S) * MEAN $=3.2$ STD DEV $=4.2$ RESULTANT $=1.6$ FROM 156. CONSTANCY $=0.48 \mathrm{MAX}=21.8$ FROM 205. AT 1340 GMT DAY 9 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 54 & 19 & 10 & 4 & 5 & & 3 & 2 & 3 & 1 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT

$$
\begin{array}{lllllllllllllll}
1 & 4 & 17 & 17 & 12 & 6 & 3 & 10 & 10 & 14 & 4 & 0 & 0 & 0 & 1
\end{array}
$$

AUG 97


* TEMPERATURE (C) * MEAN $=-35.7$ STD DEV $=9.2$ MAX $=-15.4$ AT 1500 GMT ON DAY 13 MIN $=-52.1$ AT 240 GMT ON DAY 4
* THETA (K) * MEAN $=238.36$
* PRESSURE (MB) * MEAN $=987.3$ STD DEV $=8.3$ MAX $=1001.2$ AT 0 GMT ON DAY 29 MIN $=958.1$ AT 530 GMT ON DAY 9
* WINDS (M/S)* MEAN $=2.4$ STD DEV $=4.4$ RESULTANT $=1.5$ FROM 160. CONSTANCY $=0.64 \operatorname{MAX}=28.7$ FROM 195 . AT 1550 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \% \quad$ UINDS: $0.4 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 14 -16 16 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllllllllll}\text { PERCENT } & 2 & 7 & 9 & 13 & 13 & 5 & 3 & 14 & 23 & 7 & 1 & 0 & 0 & 1 & 1 & 1\end{array}$

| SEP | 97 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HR | PP |  | V | DD | PP |  | v | DD | PP |  |  | DD |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 993 | -44 | 0 | 0 | 986 | -35 | 0 | 0 | 995 | -28 | 0 | 0 |
| 03 | 992 | -46 | 0 | 0 | 985 | -33 | 0 | 0 | 996 | -29 | 0 | 0 |
| 06 | 991 | -49 | 0 | 0 | 985 | -35 | 0 | 0 | 997 | -29 | 0 | 0 |
| 09 | 990 | -48 | 0 | 0 | 986 | -32 | 0 | 0 | 996 | -29 | 0 | 0 |
| 12 | 990 | -50 | 0 | 0 | 987 | -34 | 0 | 0 | 996 | -29 | 0 | 0 |
| 15 | 989 | -50 | 0 | 0 | 989 | -32 | 0 | 0 | 996 | -24 | 0 | 0 |
| 18 | 988 | -49 | 0 | 0 | 991 | -33 | 0 | 0 | 996 | -28 | 0 | 0 |
| 21 | 987 | -43 | 0 | 0 | 993 | -33 | 0 | 0 |  |  |  |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY |  |  |
| 00 | 993 | -33 | 2 | 64 | 993 | -29 | 3 | 85 | 976 | -22 | 17 | 196 |
| 03 | 995 | -33 | 4 | 54 | 989 | -28 | 0 | 0 | 977 | -26 | 4 | 19 |
| 06 | 996 | -38 | 3 | 115 | 985 | -34 | 9 | 150 | 977 | -26 | 4 | 91 |
| 09 | 998 | -38 | 3 | 68 | 981 | -23 | 8 | 184 | 977 | -27 | 2 | 47 |
| 12 | 999 | -35 | 4 | 59 | 977 | -25 | 15 | 209 | 976 | -31 | 4 | 56 |
| 15 | 999 | -33 | 3 | 18 | 977 | -26 | 22 | 210 | 974 | -33 | 4 | 70 |
| 18 | 998 | -33 | 3 | 40 | 978 | -25 | 14 | 206 | 972 | -32 | 2 | 75 |
| 21 | 995 | -29 | 4 | 46 | 978 | -24 | 14 | 217 | 972 | -29 | 2 | 68 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 |  |  |  |  | 991 | -39 | 0 | 0 | 990 | -37 | 6 | 70 |
| 03 | 989 | -35 | 4 | 18 | 988 | -35 | 0 | 0 | 993 | -39 | 6 | 61 |
| 06 | 991 | -36 | 2 | 125 | 987 | -36 | 0 | 0 | 995 | -43 | 7 | 63 |
| 09 | 993 | -40 | 6 | 63 | 986 | -34 | 0 | 0 | 996 | -45 | 7 | 40 |
| 12 | 993 | -42 | 3 | 61 | 987 | -34 | 0 | 0 | 998 | -40 | 6 | 81 |
| 15 | 993 | -45 | 0 | 0 | 987 | -34 | 0 | 0 | 999 | -40 | 8 | 61 |
| 18 | 993 | -44 | 0 | 0 | 987 | -31 | 0 | 0 | 1001 | -41 | 6 | 75 |
| 21 | 992 | -45 | 1 | 8 | 988 | -37 | 8 | 156 | 1001 | -40 | 5 | 49 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY |  |  |
| 00 | 990 | -17 | 3 | 174 | 987 | -24 | 3 | 348 | 979 | -12 | 8 | 195 |
| 03 | 989 | -18 | 5 | 45 | 984 | -26 | 1 | 4 | 980 | -12 | 10 | 209 |
| 06 | 989 | -15 | 5 | 189 | 983 | -25 | 0 | 0 | 981 | -9 | 17 | 210 |
| 09 | 988 | -13 | 16 | 208 | 981 | -27 | 0 | 0 | 982 | -11 | 15 | 201 |
| 12 | 991 | -15 | 9 | 213 | 979 | -24 | 0 | 0 | 981 | -12 | 12 | 189 |
| 15 | 992 | -16 | 7 | 154 | 978 | -21 | 0 | 0 | 977 | -8 | 19 | 208 |
| 18 | 991 | -25 |  | 324 | 977 | -18 | 0 | 0 | 973 | -5 | 18 | 217 |
| 21 | 989 | -20 | 1 | 21 | 978 | -15 | 0 | 0 | 971 | -6 | 22 | 185 |
|  |  |  | 29 |  |  |  | 30 |  |  |  |  |  |
| 00 | 992 | -18 | 3 | 257 | 994 | -18 | 4 | 165 |  |  |  |  |
| 03 | 992 | -20 | 2 | 47 | 993 | -20 | 3 | 105 |  |  |  |  |
| 06 | 992 | -18 | 7 | 177 | 992 | -21 | 0 | 0 |  |  |  |  |
| 09 | 993 | -19 | 8 | 174 | 992 | -18 | 5 | 178 |  |  |  |  |
| 12 | 994 | -21 | 1 | 85 | 990 | -24 | 2 | 19 |  |  |  |  |
| 15 | 994 | -17 | 9 | 174 | 989 | -24 |  | 205 |  |  |  |  |
| 18 | 994 | -19 | 3 | 85 | 988 | -29 | 3 | 42 |  |  |  |  |
| 21 | 994 | -19 | 3 | 188 | 988 | -30 |  | 113 |  |  |  |  |


| PP |  |  | DD | PP | TT |  | DD | PP |  | VV | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 996 | -29 | 0 | 0 | 978 | -28 | 0 | 0 | 986 | -20 | 0 | 0 | 988 | -20 | 3 | 29 |
| 995 | -33 | 0 | 0 | 978 | -24 | 0 | 0 | 986 | -19 | 13 | 174 | 987 | -22 | 3 | 271 |
| 993 | -32 | 0 | 0 | 978 | -21 | 0 | 0 | 986 | -19 | 1 | 102 | 988 | -23 | 3 | 137 |
| 991 | -36 | 0 | 0 | 979 | -20 | 0 | 0 | 986 | -17 | 5 | 194 | 988 | -21 | 2 | 230 |
| 986 | -38 | 0 | 0 | 981 | -21 | 0 | 0 | 987 | -19 | 11 | 177 | 988 | -25 | 2 | 274 |
| 982 | -35 | 0 | 0 | 981 | -22 | 0 | 0 | 988 | -19 | 15 | 167 | 988 | -27 | 3 | 99 |
| 980 | -33 | 0 | 0 | 982 | -20 | 0 | 0 | 987 | -18 | 8 | 157 | 989 | -33 | 5 | 42 |
| 977 | -30 | 0 | 0 | 983 | -22 | 0 | 0 | 987 | -18 | 7 | 210 | 991 | -33 | 3 | 67 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DaY | 14 |  |
| 974 | -32 | 3 | 142 | 1005 | -35 | 6 | 40 | 1010 | -36 | 3 | 75 | 993 | -38 | 0 | 0 |
| 977 | -37 | 0 | 0 | 1007 | -33 | 5 | 37 | 1008 | -37 | 2 | 94 | 991 | -38 | 3 | 127 |
| 982 | -37 | 0 | 0 | 1009 | -34 | 7 | 33 | 1006 | -38 | 3 | 70 | 990 | -36 | 0 | 0 |
| 987 | -36 |  | 360 | 1010 | -35 | 7 | 39 | 1004 | -37 | 0 | 0 | 989 | -42 | 4 | 64 |
| 992 | -37 | 3 | 36 | 1012 | -39 | 3 | 115 | 1002 | -35 | 2 | 85 | 987 | -44 | 2 | 90 |
| 995 | -37 | 0 | 0 | 1012 | -37 | 3 | 59 | 999 | -38 | 3 | 77 | 987 | -42 | 3 | 15 |
| 997 | -37 | 0 | 0 | 1011 | -36 | 2 | 2 | 997 | -39 | 1 | 81 | 988 | -40 | 3 | 40 |
| 1002 | -37 | 6 | 46 | 1010 | -37 | 4 | 57 | 995 | -38 | 0 | 0 | 989 | -37 | 4 | 18 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 1002 | -38 | 6 | 57 | 1001 | -26 | 7 | 43 | 1001 | -36 | 3 | 71 | 1001 | -38 | 3 | 108 |
| 1002 | -36 | 5 | 53 | 1001 | -26 | 5 | 60 | 1001 | -35 | 3 | 75 | 1000 | -35 | 3 | 46 |
| 1002 | -30 | 3 | 91 | 1001 | -28 | 7 | 45 | 1001 | -32 | 4 | 73 | 999 | -36 | 3 | 32 |
| 1001 | -22 | 14 | 195 | 1001 | -29 | 0 | 0 | 1001 | -37 | 2 | 66 | 998 | -33 | 5 | 46 |
| 1002 | -23 | 11 | 133 | 1000 | -29 | 6 | 77 | 1001 | -36 | 5 | 60 | 996 | -35 | 9 | 47 |
| 1002 | -23 | 5 | 116 | 1001 | -33 | 4 | 28 | 1001 | -39 | 4 | 97 | 995 | -36 | 4 | 74 |
| 1002 | -22 | 7 | 127 | 1001 | -36 | 4 | 39 | 1001 | -39 | 0 | 0 | 993 | -33 | 0 | 0 |
| 1002 | -25 | 6 | 73 | 1001 | -37 | 4. | 50 | 1001 | -39 | 3 | 56 | 991 | -18 | 9 | 156 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 975 | -8 | 7 | 180 | 984 | -7 | 20 | 203 | 989 | -10 | 8 | 142 | 994 | -24 | 6 | 61 |
| 978 | -9 | 8 | 165 | 982 | -9 | 23 | 182 | 990 | -14 | 5 | 47 | 993 | -22 | 4 | 73 |
| 978 | -9 | 18 | 199 | 983 | -6 | 18 | 201 | 990 | -17 | 4 | 37 | 993 | -26 | 2 | 180 |
| 978 | -8 | 14 | 178 | 985 | -7 | 10 | 182 | 989 | -19 | 4 | 63 | 994 | -26 | 0 | 0 |
| 976 | -8 | 16 | 175 | 986 | -9 | 3 | 143 | 989 | -24 | 1 | 116 | 994 | -20 | 5 | 222 |
| 977 | -9 | 13 | 194 | 987 | -8 | 9 | 174 | 991 | -23 | 1 | 35 | 994 | -20 | 5 | 195 |
| 981 | -11 | 11 | 185 | 987 | -10 | 9 | 144 | 992 | -15 | 18 | 199 | 993 | -24 | 0 | 0 |
| 984 | -10 |  | 206 | 989 | -12 | 4 | 137 | 995 | -17 | 9 | 130 | 992 | -21 | 0 | 0 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-27.8$ std dev $=10.3$ max $=-4.4$ at 1720 GMT ON DAY 24 MIN $=-50.6$ at 1530 GMt ON DAY 1
* theta (K) * MEAN $=246.00$
* PRESSURE (MB) * MEAN $=990.5$ STD DEV $=8.6$ MAX $=1012.0$ at 1430 GMT ON DAY 12 MIN $=970.0$ at 2000 GMt ON DAY 24
* WINDS (M/S) * MEAN $=4.4$ STD DEV $=5.0$ RESULTANT $=2.0$ FROM 154. CONSTANCY $=0.45$ maX $=24.9$ fROM 205. AT 1320 GMT DAY 24
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $\quad$ E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW PERCENT

$$
\begin{array}{llllllllllllllll}
2 & 7 & 17 & 20 & 7 & 5 & 7 & 5 & 12 & 13 & 2 & 1 & 1 & 0 & 1 & 1
\end{array}
$$

OCT 97
HR PP TT VV DD PP TT WV DD PP TT WV DD DAY 1
$\begin{array}{llll}00 & 988 & -28 & 3\end{array} 59$ $\begin{array}{lllll}03 & 988 & -25 & 0 & 0\end{array}$ $\begin{array}{lllll}06 & 989 & -26 & 1 & 185\end{array}$ $\begin{array}{lllll}09 & 989 & -26 & 1 & 139\end{array}$ $\begin{array}{lllll}12 & 989 & -26 & 0 & 0\end{array}$ $\begin{array}{llll}15 & 989 & -25 & 2\end{array} 351$ $\begin{array}{lllll}18 & 988 & -20 & 1 & 26\end{array}$ 21 986-22 2281 DAY 8
$\begin{array}{llll}00 & 1002 & -12 & 4 \\ 94\end{array}$
$\begin{array}{llll}03 & 1002 & -14 & 6 \\ 61\end{array}$
$\begin{array}{llll}06 & 1001 & -15 & 5 \\ 67\end{array}$
09 1000-16 $\quad 4 \quad 37$
$\begin{array}{llll}12 & 999 & -16 & 1\end{array} 66$
$\begin{array}{lllll}15 & 999 & -17 & 3 & 39\end{array}$
$\begin{array}{llll}18 & 997 & -18 & 4\end{array} 63$
$\begin{array}{lllll}21 & 996 & -21 & 5 & 45\end{array}$
DAY 15
$\begin{array}{llll}00 & 999 & -18 & 4 \\ 53\end{array}$
$\begin{array}{lllll}03 & 1000 & -17 & 6 & 30\end{array}$
$\begin{array}{lllll}06 & 1000 & -17 & 3 & 33\end{array}$
09 1001-18 $\quad 4 \quad 59$
12 1001-18 $4 \quad 50$
15 1001-19 343
18 1001-19 $4 \quad 68$ 21

|  | DAY |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 22 |  |  |  |
| 068 | -14 | 20 | 201 |  |
| 03 | 967 | -13 | 14 | 203 |
| 06 | 967 | -14 | 19 | 203 |
| 09 | 968 | -14 | 19 | 195 |
| 12 | 969 | -14 | 19 | 194 |
| 15 | 971 | -13 | 17 | 181 |
| 18 | 969 | -13 | 15 | 202 |
| 21 | 969 | -14 | 21 | 203 |
|  |  | DAY | 29 |  |

$\begin{array}{lllll}00 & 982 & -16 & 2 & 57\end{array}$
$\begin{array}{lllll}03 & 982 & -16 & 5 & 45\end{array}$
$\begin{array}{lllll}06 & 982 & -16 & 5 & 45\end{array}$
$\begin{array}{lllll}09 & 982 & -16 & 3 & 53\end{array}$
$\begin{array}{lllll}12 & 981 & -17 & 3 & 64\end{array}$
$\begin{array}{lllll}15 & 980 & -17 & 1 & 42\end{array}$
$\begin{array}{lllll}18 & 980 & -15 & 1 & 25\end{array}$
$\begin{array}{lllll}21 & 979 & -13 & 1 & 47\end{array}$

DAY 2
985-19 118
982-10 5157
$\begin{array}{llll}979 & -9 & 7 & 227\end{array}$
$\begin{array}{llll}979 & -8 & 10 & 182\end{array}$
$\begin{array}{llll}976 & -7 & 3 & 288\end{array}$
973-10 3358
$\begin{array}{llll}972 & -9 & 16 & 208\end{array}$
976-12 7132
DAY 9
996-20 $5 \quad 71$
995-19 1 161
994-13 7178
994-18 7116
992-16 $8 \quad 153$
$991-1613160$
990 -15 9157
987-14 11196
DAY 16
1000-20 $6 \quad 61$
1000-20 $6 \quad 67$
999-20 6
$999-21 \quad 5 \quad 61$ $999-22 \quad 5 \quad 71$ $\begin{array}{llll}998 & -22 & 5 & 73\end{array}$ $998-22 \quad 5 \quad 73$ $\begin{array}{llll}998 & -21 & 4 & 88\end{array}$ DAY 23
973-14 19191
$972-1318196$ 967-12 24202 966-11 20201 $967-1013203$ $965-921182$ 966-14 11178 971-12 11192 DAY 30 979-13 3 68 979-15 4149 979-16 5165 979-17 3170 $\begin{array}{llll}979 & -19 & 147\end{array}$ $\begin{array}{lllll}980 & -23 & 1 & 147\end{array}$ $\begin{array}{llll}981 & -23 & 28\end{array}$

DAY 3
$\begin{array}{llll}976 & -9 & 15 & 210\end{array}$
980-13 4206
980-13 3175
980-12 5153
982-14 6165
985-13 8160
987-16 13146
989 - $15 \quad 9 \quad 161$ DAY 10
987-13 11195
985-12 11199
982-12 13195
983-11 10185
$\begin{array}{llll}981 & -9 & 7 & 158\end{array}$
981-10 7156
981-12 6137

| DAY |  |  |  |
| :--- | :--- | :--- | :--- |
| Pa | 17 |  |  |
| 999 | -21 | 3 | 87 |
| 998 | -21 | 4 | 66 |
| 998 | -21 | 3 | 71 |
| 998 | -22 | 2 | 71 |
| 997 | -22 | 2 | 101 |
| 996 | -22 | 3 | 87 |
| 996 | -21 | 2 | 82 |
| 995 | -21 | 3 | 119 |
|  | DAY | 24 |  |
| 976 | -11 | 7 | 180 |
| 980 | -11 | 7 | 178 |
| 983 | -11 | 5 | 174 |
| 984 | -12 | 6 | 164 |
| 984 | -14 | 3 | 102 |
| 983 | -13 | 3 | 116 |
| 983 | -14 | 4 | 80 |
| 983 | -13 | 0 | 0 |
|  | DAY | 31 |  |
| 982 | -20 | 4 | 66 |
| 981 | -20 | 5 | 47 |
| 981 | -19 | 5 | 73 |
| 980 | -20 | 4 | 74 |
| 979 | -19 | 2 | 102 |
| 979 | -20 | 3 | 147 |
| 979 | -20 | 1 | 90 |
| 978 | -18 | 0 | 0 |


| PP | IT VV |
| ---: | ---: |
| DAY |  |
| P90 | 14 |

990-14 10158
991-14 6132
990-13 5102
989-16 $\quad 4 \quad 71$
$\begin{array}{llll}989 & -18 & 3 & 33\end{array}$
$\begin{array}{llll}988 & -18 & 2 & 59\end{array}$
988-22 247
$\begin{array}{llll}988 & -21 & 3 & 49\end{array}$ DAY 11
$\begin{array}{llll}983 & -9 & 7 & 165\end{array}$
983-11 12158
983-11 14201
986-12 16199
$\begin{array}{llll}988 & -1611 & 194\end{array}$
988-12 16206
988-12 20205
987-11 21206
DAY 18
$\begin{array}{llll}994 & -21 & 4 & 84\end{array}$
$\begin{array}{llll}993 & -21 & 5 & 73\end{array}$
$\begin{array}{llll}992 & -21 & 5 & 75\end{array}$
992-22 366
$\begin{array}{llll}992 & -22 & 3 & 50\end{array}$
$\begin{array}{llll}993 & -23 & 3 & 57\end{array}$
993-23 252
$994-23 \quad 4 \quad 54$

## DAY 25

$\begin{array}{llll}983 & -7 & 1 & 84\end{array}$
$\begin{array}{llll}982 & -8 & 0 & 0\end{array}$
$\begin{array}{llll}983 & -12 & 1 & 78\end{array}$
$\begin{array}{llll}983 & -16 & 1 & 26\end{array}$
983-18 150
983-19 249
$\begin{array}{llll}983 & -17 & 6 & 53\end{array}$
$\begin{array}{llll}984 & -15 & 4 & 99\end{array}$

PP TT VV DD DAY 5
988-18 0 0 987-16 0 0 986-17 0 $\begin{array}{llll}986 & -16 & 3 & 47\end{array}$ 985-18 1177 985-16 129 984-14 0 $\begin{array}{llll}984 & -14 & 3 & 50\end{array}$ DAY 12
989-11 18191 988-10 19206 987-10 21201 987-10 19206 985-10 22215 $989-1317174$ $\begin{array}{llll}988 & -8 & 19 & 195\end{array}$ $\begin{array}{llll}987 & -8 & 17 & 203\end{array}$ DAY 19
$\begin{array}{llll}995 & -22 & 3 & 66\end{array}$
$\begin{array}{llll}995 & -23 & 1 & 88\end{array}$
$\begin{array}{llll}996 & -27 & 1 & 99\end{array}$
$\begin{array}{lllll}996 & -28 & 1 & 142\end{array}$
$\begin{array}{llll}995 & -28 & 1 & 87\end{array}$
995-26 0
995-25 146
DAY 26
$\begin{array}{llll}983 & -14 & 5 & 87\end{array}$
984-13 2120
$\begin{array}{llll}984 & -17 & 4 & 67\end{array}$
985-18 $\quad 3 \quad 40$
985-19 250
985-16 $\quad 3 \quad 71$
$\begin{array}{llll}984 & -13 & 3 & 77\end{array}$
$983-1315196$

PP TT VV DD DAY 6
$\begin{array}{llll}984 & -8 & 8 & 160\end{array}$
$\begin{array}{llll}983 & -8 & 10 & 194\end{array}$
$\begin{array}{llll}984 & -8 & 11 & 201\end{array}$
$\begin{array}{llll}985 & -7 & 3 & 130\end{array}$
$\begin{array}{llll}987 & -9 & 3 & 123\end{array}$
988-10 0
$\begin{array}{llll}990 & -11 & 3 & 81\end{array}$
$\begin{array}{llll}991 & -8 & 0 & 0\end{array}$
DAY 13
$\begin{array}{llll}989 & -8 & 16 & 206\end{array}$
$\begin{array}{llll}989 & -7 & 18 & 187\end{array}$
$\begin{array}{llll}988 & -8 & 4 & 147\end{array}$
$\begin{array}{llll}988 & -9 & 6 & 95\end{array}$
988-15 254
$\begin{array}{llll}988 & -11 & 8 & 184\end{array}$
988-12 2174
989-12 3136
DAY 20
994-21 0
992-20 0
991-22 0
990-23 0
988-29 156
$\begin{array}{llll}987 & -26 & 1 & 37\end{array}$
986-23 0
984-22 0
DAY 27
983-12 14206
$\begin{array}{llll}985 & -12 & 14 & 187\end{array}$
$\begin{array}{llll}985 & -13 & 5 & 116\end{array}$
$\begin{array}{llll}984 & -14 & 3 & 73\end{array}$
982-16 $1 \quad 60$
$\begin{array}{llll}981 & -19 & 0 & 0\end{array}$
980-20 260
979-18 $\quad 5 \quad 39$

PP TT WV DD DAY 7
$\begin{array}{llll}994 & -8 & 4 & 101\end{array}$
$\begin{array}{llll}994 & -7 & 4 & 102\end{array}$
$\begin{array}{llll}996 & -8 & 6 & 125\end{array}$
998-10 5118
999-10 $3 \quad 56$
1000-12 6136
1002-14 2125
1002-15 659
DAY 14
989-13 0 0
989-12 240
$991-14 \quad 4 \quad 105$
$\begin{array}{llll}992 & -15 & 3 & 94\end{array}$
$\begin{array}{llll}994 & -17 & 6 & 57\end{array}$
$\begin{array}{llll}995 & -22 & 3 & 77\end{array}$
$\begin{array}{llll}996 & -18 & 4 & 97\end{array}$
998 -20 645
DAY 21
981-19 0
$979-17 \quad 9189$
976-19 9150
975 -20 14185
973 -21 18208
972-19 14203
972-19 20203
969 -16 18217
DAY 28
980-17 $4 \quad 47$
$\begin{array}{llll}979 & -16 \quad 4 \quad 60\end{array}$
$\begin{array}{llll}980 & -18 & 3 & 30\end{array}$
981-20 $2 \quad 66$
$\begin{array}{lll}981 & -25 & 2165\end{array}$
$\begin{array}{llll}982 & -21 & 174\end{array}$
982-19 1161
982-17 1 ( 61

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-16.0$ Std dev $=5.0$ max $=-5.9$ at 1040 GMT ON dAY 2 min $=-29.1$ at 1240 GMt on day 19
* Theta (K) * MEAN $=258.24$
* PRESSURE (MB) * MEAN $=986.2$ STD DEV $=8.4$ MAX $=1002.2$ AT 2330 GMT ON DAY 7 MIN $=963.9$ AT 1430 GMT ON DAY 23
* WINDS (M/S) * MEAN $=6.1$ STD DEV $=5.8$ RESULTANT $=3.6$ FROM 169. CONSTANCY $=0.59$ MAX $=26.2$ FROM 205. AT 700 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $1.6 \%$ WINDS: $1.6 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 26 & 24 & 18 & 7 & 4 & & 4 & 2 & 4 & 4 & 5 & 2 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT

$$
\begin{array}{lllllllllllllll}
1 & 4 & 15 & 20 & 9 & 5 & 5 & 11 & 10 & 17 & 1 & 0 & 0 & 0 & 0
\end{array} 0
$$

NOV 97
HR PP TT VV DD

|  | DAY |  |  |  | 1 |
| :--- | :--- | :--- | :--- | :--- | ---: |
| 00 | 977 | -18 | 2 | 80 |  |
| 03 | 976 | -18 | 2 | 57 |  |
| 06 | 976 | -18 | 4 | 165 |  |
| 09 | 976 | -20 | 6 | 177 |  |
| 12 | 976 | -20 | 5 | 164 |  |
| 15 | 976 | -22 | 3 | 42 |  |
| 18 | 977 | -19 | 2 | 142 |  |
| 21 | 977 | -18 | 4 | 153 |  |
|  |  | DAY | 8 |  |  |
| 00 | 996 | -4 | 9 | 171 |  |
| 03 | 992 | -3 | 5 | 140 |  |
| 06 | 990 | -4 | 2 | 142 |  |
| 09 | 989 | -4 | 16 | 182 |  |
| 12 | 985 | -8 | 10 | 187 |  |
| 15 | 984 | -5 | 21 | 208 |  |
| 18 | 986 | -5 | 18 | 206 |  |
| 21 | 992 | -5 | 17 | 201 |  |

DAY 15
$\begin{array}{lllll}00 & 991 & -4 & 13 & 209\end{array}$
$\begin{array}{lllll}03 & 991 & -3 & 5 & 167\end{array}$
$\begin{array}{lllll}06 & 990 & -3 & 12 & 191\end{array}$
$\begin{array}{lllll}09 & 990 & -7 & 13 & 178\end{array}$
$\begin{array}{lllll}12 & 991 & -4 & 11 & 181\end{array}$
$\begin{array}{lllll}15 & 992 & -5 & 10 & 171\end{array}$
$\begin{array}{lllll}18 & 994 & -4 & 11 & 175\end{array}$
$\begin{array}{lllll}21 & 994 & -3 & 13 & 196\end{array}$ DAY 22
$\begin{array}{lllll}00 & 1008 & -1 & 2 & 12\end{array}$ $031008 \quad 2 \quad 1 \quad 46$ $061009 \quad 0 \quad 2 \quad 52$ $\begin{array}{lllll}09 & 1009 & -3 & 3 & 61\end{array}$ $\begin{array}{lllll}12 & 1010 & -3 & 1 & 45\end{array}$ $\begin{array}{lllll}15 & 1011 & -2 & 0 & 0\end{array}$ $\begin{array}{lllll}18 & 1012 & -6 & 2 & 22\end{array}$ $\begin{array}{lllll}21 & 1013 & -2 & 0 & 0\end{array}$ DAY 29

| 00 | 999 | -9 | 5 | 151 | 1005 | -6 | 0 | 0 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 03 | 1000 | -8 | 5 | 161 | 1005 | -4 | 2 | 341 |
| 06 | 1000 | -8 | 1 | 132 | 1005 | -4 | 3 | 323 |
| 09 | 1001 | -8 | 1 | 105 | 1006 | -8 | 3 | 32 |
| 12 | 1002 | -9 | 1 | 37 | 1006 | -9 | 3 | 39 |
| 15 | 1002 | -10 | 2 | 43 | 1006 | -10 | 3 | 45 |
| 18 | 1004 | -8 | 0 | 0 | 1005 | -9 | 0 | 0 |
| 21 | 1005 | -8 | 2 | 35 | 1005 | -2 | 0 | 0 |

$$
P P \quad T T V V \quad D D \quad P P \quad T T V V \quad D D
$$

$$
\text { DAY } 2
$$

$$
\begin{array}{llll}
979 & -17 & 12 & 181
\end{array}
$$

$$
\begin{array}{llll}
980 & -18 & 9 & 198
\end{array}
$$

$$
\begin{array}{llll}
981 & -17 & 8 & 175
\end{array}
$$

$$
\begin{array}{llll}
981-19 & 7 & 156
\end{array}
$$

$$
981-20<116
$$

$$
\begin{array}{llll}
980 & -25 & 1 & 71
\end{array}
$$

$$
\begin{array}{llll}
979 & -24 & 3 & 43
\end{array}
$$

$$
\begin{array}{llll}
977 & -22 & 3 & 57
\end{array}
$$

$$
\text { DAY } 9
$$

$$
\begin{array}{llll}
995 & -5 & 12 & 194
\end{array}
$$

$$
997-4 \quad 16 \quad 205
$$

$$
998-4 \quad 20 \quad 203
$$

$$
998 \quad-5 \quad 21 \quad 194
$$

$$
998-4 \quad 20 \quad 202
$$

$$
\begin{array}{llll}
1002 & -4 & 15 & 195
\end{array}
$$

$$
\begin{array}{llll}
1000 & -3 & 18 & 198
\end{array}
$$

$$
\begin{array}{llll}
1002 & -3 & 14 & 184
\end{array}
$$

## DAY 16

$\begin{array}{llll}994 & -1 & 14 & 187\end{array}$
$996-212181$
$\begin{array}{llll}997 & -3 & 9 & 163\end{array}$
$\begin{array}{llll}996 & -3 & 8 & 167\end{array}$
$\begin{array}{llll}996 & -2 & 5 & 161\end{array}$
$\begin{array}{llll}994 & -5 & 8 & 139\end{array}$
$\begin{array}{llll}994 & -5 & 6 & 144\end{array}$
$\begin{array}{llll}993 & -3 & 5 & 139\end{array}$
DAY 23
$\begin{array}{lll}1013 & -5 & 166\end{array}$
$\begin{array}{llll}1013 & -3 & 2 & 22\end{array}$
$\begin{array}{llll}1013 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}1012 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}1012 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}1013 & -5 & 1 & 94\end{array}$
$\begin{array}{llll}1014 & -6 & 2 & 163\end{array}$
$\begin{array}{llll}1015 & -3 & 3 & 161\end{array}$

$$
\text { DAY } 30
$$

$\begin{array}{llll}1015 & -2 & 1 & 133\end{array}$
$\begin{array}{lll}1015 & -2 & 5\end{array} 156$
$\begin{array}{lll}1015 & -3 & 5\end{array} 129$
$\begin{array}{llll}1015 & -3 & 1 & 142\end{array}$
$\begin{array}{lll}1015 & -3 & 2135\end{array}$
$\begin{array}{llll}1014 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}1014 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}1013 & -4 & 2 & 77\end{array}$
$\begin{array}{llll}992 & -3 & 8 & 167\end{array}$
$\begin{array}{llll}991 & -1 & 29\end{array}$
$\begin{array}{llll}990 & -4 & 2 & 54\end{array}$
$\begin{array}{llll}989 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}989 & -6 & 3 & 154\end{array}$
$\begin{array}{llll}989 & -6 & 2 & 32\end{array}$
$\begin{array}{llll}989 & -3 & 1 & 57\end{array}$
$\begin{array}{llll}989 & -1 & 8 & 205\end{array}$
DAY 24

## PP TT VV DD PP TT VV DD DAY 4 <br> \section*{DAY 5}

973-11 2209
974-14 12164
$\begin{array}{lllll}973 & -11 & 14 & 196\end{array}$
$\begin{array}{llll}969 & -8 & 17 & 215\end{array}$
$\begin{array}{lllll}970 & -8 & 14 & 201\end{array}$
$\begin{array}{llll}973 & -9 & 7 & 177\end{array}$
976-10 9180
$\begin{array}{llll}974 & -9 & 16 & 195\end{array}$
DAY 11
$\begin{array}{lll}1002 & -4 & 5115\end{array}$
$\begin{array}{llll}1002 & -3 & 4 & 146\end{array}$
$\begin{array}{lll}1000 & -2 & 3\end{array}$
$\begin{array}{llll}1000 & -4 & 6 & 171\end{array}$
$\begin{array}{llll}1001 & -8 & 3 & 106\end{array}$
$\begin{array}{llll}1000 & -9 & 4 & 43\end{array}$
$\begin{array}{llll}1000 & -5 & 3 & 102\end{array}$
$\begin{array}{lll}1000 & -3 & 5\end{array} 160$
DAY 18
$\begin{array}{llll}989 & -4 & 10 & 209\end{array}$
$\begin{array}{llll}987 & -2 & 8 & 215\end{array}$
$\begin{array}{llll}988 & -3 & 8 & 182\end{array}$
$\begin{array}{lllll}989 & -3 & 11 & 175\end{array}$
$\begin{array}{llll}990 & -3 & 8 & 174\end{array}$
$\begin{array}{llll}990 & -2 & 9 & 178\end{array}$
$\begin{array}{llll}989 & -1 & 15 & 178\end{array}$
$992-1 \quad 16171$
DAY 25
$\begin{array}{lll}1013 & -4 \quad 2 \quad 67\end{array}$
$\begin{array}{llll}1012 & -2 & 0\end{array}$
$\begin{array}{llll}1011 & -4 & 3 & 68\end{array}$
$\begin{array}{llll}1011 & -5 & 2 & 75\end{array}$
$\begin{array}{llll}1011 & -5 & 2 & 63\end{array}$
$\begin{array}{llll}1011 & -5 & 2 & 60\end{array}$
$\begin{array}{llll}1011 & -4 & 1 & 91\end{array}$
$\begin{array}{llll}1010 & -4 & 0 & 0\end{array}$
$\begin{array}{llll}977 & -8 & 17 & 182\end{array}$
$\begin{array}{llll}978 & -8 & 15 & 185\end{array}$
$\begin{array}{llll}980 & -7 & 16 & 188\end{array}$
$\begin{array}{llll}981 & -8 & 13 & 191\end{array}$
$\begin{array}{llll}983 & -8 & 16 & 192\end{array}$
$\begin{array}{llll}984 & -8 & 16 & 184\end{array}$
$\begin{array}{llll}986 & -8 & 19 & 182\end{array}$
$\begin{array}{llll}989 & -8 & 15 & 182\end{array}$ DAY 12
$\begin{array}{llll}1000 & -3 & 7 & 161\end{array}$
$\begin{array}{llll}1000 & -3 & 6 & 149\end{array}$
$1000-4 \quad 7144$
$1000-5 \quad 2120$
$\begin{array}{lll}1000 & -5 & 2158\end{array}$
$\begin{array}{llll}1000 & -7 & 8 & 164\end{array}$
$\begin{array}{llll}1000 & -8 & 2 & 75\end{array}$
$\begin{array}{llll}999 & -5 & 2 & 170\end{array}$
DAY 19
$993 \quad 0 \quad 4140$
$\begin{array}{llll}994 & -1 & 12 & 156\end{array}$
$\begin{array}{llll}996 & -1 & 12 & 167\end{array}$
$\begin{array}{llll}997 & -1 & 11 & 184\end{array}$
$997 \quad 0 \quad 10210$
$997 \quad 1 \quad 12198$
$999 \quad 0 \quad 5 \quad 172$
$999 \quad 0 \quad 13199$
DAY 26


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-6.3$ STD DEV $=5.6$ MAX $=2.1$ AT 320 GMT ON DAY 22 MIN $=-25.1$ AT 1650 GMT ON DAY 2
* THETA (K) * MEAN $=267.16$
* PRESSURE (MB) * MEAN $=996.0 \quad \operatorname{STD} D E V=11.0 \quad$ MAX $=1015.6$ AT 120 GMT ON DAY 24 MIN $=968.6$ AT 940 GMT ON DAY 4
* $\operatorname{WINDS}(M / S) *$ MEAN $=6.1 \mathrm{STD}$ DEV $=5.3$ RESULTANT $=4.8$ FROM 175. CONSTANCY $=0.78$ MAX $=24.4$ FROM 205. AT 1510 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $1.2 \%$ WINDS: $1.2 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 1 & 2 & 9 & 12 & 6 & 5 & 11 & 15 & 22 & 16 & 1 & 0 & 0 & 0 & 0 & 0\end{array}$

DEC 97

| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | VV | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { VV } \\ 3 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 4 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 5 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | VV 6 | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | VV |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 1004 | -2 | 2 | 95 | 999 | -6 | 2 | 71 | 1002 | -5 | 2 | 156 | 1004 | -6 | 3 | 106 | 1013 | -7 | 2 | 82 | 1003 | -6 | 2 | 57 | 1005 | -7 | 2 | 23 |
| 03 | 1004 | -6 | 0 | 0 | 999 | -4 | 3 | 49 | 1002 | -5 | 2 | 126 | 1004 | -6 | 2 | 129 | 1012 | -8 | 4 | 71 | 1002 | -5 | 2 | 39 | 1005 | -6 | 2 | 358 |
| 06 | 1002 | -4 | 0 | 0 | 999 | -5 | 2 | 102 | 1002 | -5 | 1 | 8 | 1005 | -8 | 4 | 88 | 1012 | -8 | 3 | 70 | 1001 | -7 | 4 | 175 | 1006 | -7 | 2 | 136 |
| 09 | 1001 | -5 | 3 | 336 | 999 | -4 | 1 | 29 | 1002 | -7 | 5 | 195 | 1005 | -8 | 2 | 75 | 1010 | -10 | 4 | 67 | 1001 | -8 | 5 | 172 | 1007 | -7 | 3 | 167 |
| 12 | 1001 | -5 | 2 | 320 | 999 | -5 | 2 | 15 | 1003 | -8 | 3 | 146 | 1006 | -12 | 3 | 75 | 1008 | -10 | 4 | 57 | 1001 | -8 | 2 | 26 | 1009 | -8 | 4 | 157 |
| 15 | 1000 | -6 | 1 | 351 | 999 | -7 | 4 | 147 | 1004 | -7 | 1 | 101 | 1007 | -16 | 2 | 115 | 1007 | -8 | 2 | 36 | 1002 | -8 | 2 | 199 | 1009 | -8 | 6 | 175 |
| 18 | 1000 | -8 | 3 | 42 | 1000 | -6 | 2 | 122 | 1004 | -8 | 1 | 52 | 1010 | -15 | 1 | 67 | 1006 | -7 | 2 | 63 | 1002 | -9 | 3 | 30 | 1010 | -8 | 4 | 178 |
| 21 | 1000 | -8 | 0 | 0 | 1002 | -5 | 0 | 0 | 1004 | -7 | 2 | 47 |  |  |  |  | 1004 | -5 | 2 | 63 | 1003 | -8 | 3 | 30 | 1010 | -7 | 2 | 12 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 1011 | -8 | 2 | 52 | 1007 | -13 | 3 | 50 | 999 | -10 | 4 | 81 | 999 | -9 | 4 | 187 | 994 | -6 | 3 | 132 | 987 | -3 | 3 | 341 | 985 | -3 | 3 | 137 |
| 03 | 1010 | -6 | 3 | 56 | 1006 | -11 | 4 | 73 | 999 | -9 | 3 | 70 | 999 | -11 | 4 | 68 | 993 | -5 | 7 | 187 | 986 | -2 | 2 | 358 | 985 | -3 | 2 | 163 |
| 06 | 1009 | -7 | 2 | 56 | 1004 | -10 | 0 | 0 | 998 | -9 | 3 | 143 | 998 | -9 | 0 | 0 | 992 | -6 | 8 | 195 | 985 | -3 | 4 | 167 | 986 | -5 | 3 | 130 |
| 09 | 1009 | -9 | 0 | 0 | 1003 | -12 | 2 | 85 | 998 | -12 | 4 | 49 | 998 | -13 | 1 | 15 | 991 | -6 | 6 | 187 | 985 | -5 | 4 | 43 | 988 | -5 | 2 | 150 |
| 12 | 1009 | -10 | 3 | 53 | 1003 | -12 | 3 | 81 | 998 | -13 | 3 | 54 | 997 | $-13$ | 3 | 33 | 990 | -5 | 2 | 90 | 985 | -6 | 4 | 61 | 989 | -8 | 3 | 174 |
| 15 | 1008 | -11 | 1 | 46 | 1001 | -12 | 4 | 71 | 998 | -13 | 2 | 82 | 997 | -14 | 2 | 45 | 989 | -5 | 4 | 137 | 984 | -7 | 1 | 102 | 991 | -7 | 5 | 175 |
| 18 | 1008 | -14 | 2 | 64 | 1001 | -12 | 3 | 70 | 999 | -13 | 2 | 60 | 996 | -11 | 3 | 84 | 989 | -5 | 2 | 115 | 984 | -6 | 2 | 59 | 993 | -6 | 4 | 165 |
| 21 | 1008 | -14 | 3 | 61 | 1000 | -11 | 2 | 78 | 999 | -10 | 3 | 177 | 995 | -6 | 2 | 147 | 989 | -3 | 5 | 189 | 985 | -5 | 2 | 80 | 996 | -5 | 4 | 147 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 |  |  |  |  | 997 | -5 | 2 | 60 | 997 | -3 | 3 | 57 | 994 | -6 | 2 | 84 | 996 | -4 | 3 | 19 | 992 | -1 | 0 | 0 | 1003 | -6 | 6 | 147 |
| 03 | 998 | -5 | 3 | 33 | 996 | -6 | 3 | 92 | 996 | -4 | 3 | 47 | 994 | -7 | 3 | 68 | 995 | -4 | 1 | 16 | 992 | 1 | 1 | 105 | 1002 | -4 | 5 | 192 |
| 06 | 999 | -4 | 2 | 43 | 996 | -5 | 2 | 78 | 996 | -3 | 2 | 49 | 995 | -7 | 3 | 77 | 994 | -3 | 0 | 0 | 992 | -2 | 0 | 0 | 1003 | -5 | 4 | 146 |
| 09 | 999 | -8 | 1 | 53 | 996 | -5 | 4 | 170 | 995 | -7 | 2 | 60 | 996 | -8 | 3 | 39 | 993 | -12 | 2 | 45 | 994 | -4 | 0 | 0 | 1003 | -5 | 5 | 140 |
| 12 | 999 | -13 | 3 | 66 | 996 | -5 | 3 | 158 | 994 | -8 | 3 | 60 | 997 | $-11$ | 1 | 49 | 993 | -12 | 2 | 57 | 996 | -5 | 3 | 156 | 1002 | -7 | 3 | 118 |
| 15 | 1000 | -12 | 2 | 56 | 997 | -5 | 5 | 163 | 994 | -9 | 3 | 70 | 997 | -10 | 1 | 92 | 992 | -12 | 2 | 74 | 998 | -9 | 2 | 132 | 1002 | -9 | 1 | 26 |
| 18 | 1000 | -5 | 1 | 73 | 997 | -4 | 1 | 217 | 994 | -8 | 1 | 87 | 997 | -7 | 3 | 120 | 992 | -6 | 1 | 84 | 999 | -6 | 4 | 160 | 1001 | -5 | 0 | 0 |
| 21 | 998 | -7 | 2 | 74 | 997 | -3 | 2 | 175 | 994 | -8 | 2 | 91 | 997 | -5 | 3 | 64 | 992 | -3 | 2 | 360 | 1001 | -6 | 7 | 184 | 1000 | 0 | 0 | 0 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 999 | 0 | 1 | 350 | 993 | 0 | 5 | 184 | 993 | 1 | 7 | 192 | 1001 | 0 | 6 | 158 | 996 | -1 | 2 | 28 | 990 | 4 | 0 | 0 | 995 | 2 | 0 | 0 |
| 03 | 998. | 0 | 2 | 348 | 993 | -1 | 7 | 195 | 994 | 2 | 7 | 172 | 1001 | 0 | 6 | 184 | 995 | -1 | 3 | 43 | 989 | 2 | 1 | 258 | 995 | 1 | 3 | 140 |
| 06 | 997 | -1 | 1 | 9 | 992 | -1 | 6 | 158 | 995 | 1 | 6 | 185 | 1001 | -1 | 5 | 153 | 993 |  | 0 | 0 | 989 | 1 | 4 | 220 | 996 | 1 | 5 | 158 |
| 09 | 996 | -4 | 1 | 99 | 992 | -2 | 8 | 177 | 997 | 0 | 6 | 147 | 1002 | -2 | 2 | 151 | 991 | 0 | 1 | 88 | 991 | 1 | 2 | 360 | 997 | 0 | 3 | 143 |
| 12 | 995 | -5 | 2 | 71 | 991 | -1 | 10 | 201 | 998 | 0 | 5 | 181 | 1002 | -2 | 2 | 95 | 991 | -1 | 2 | 317 | 991 | 0 | 1 | 29 | 997 | -1 | 1 | 336 |
| 15 | 995 | -9 | 0 | 0 | 991 | -1 | 7 | 180 | 999 | -1 | 4 | 151 | 1000 | -3 | 3 | 98 | 990 | -2 | 2 | 323 | 992 | 1 | 1 | 189 | 997 | -1 | 0 | 0 |
| 18 | 995 | -5 |  | 360 | 991 | 0 | 3 | 192 | 1000 | 1 | 5 | 140 | 999 | 2 | 0 | 0 | 989 | -1 | 2 | 310 | 992 | 2 | 0 | 0 | 997 | 0 | 0 | 0 |
| 21 | 994 | 2 | 0 | 0 | 991 | 3 | 3 | 243 | 1000 | 1 | 3 | 137 | 997 | -1 | 2 | 53 | 989 | -2 | 2 | 337 | 994 | 2 | 2 | 136 | 996 | 1 | 2 | 322 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 995 | 2 |  | 303 | 994 | 0 | 6 | 129 | 996 | -1 | 4 | 92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 994 | 2 | 2 | 299 | 995 | 0 | 5 | 143 | 996 | -1 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 993 | 1 |  | 302 | 996 | 0 | 7 | 181 | 995 | -2 | 1 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 992 | 1 | 0 | 0 | 997 | -2 | 6 | 161 | 995 | -3 | 3 | 61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 992 | -1 | 1 | 54 | 997 | -1 | 8 | 164 | 995 | -3 | 3 | 78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 992 | 0 | 0 | 0 | 997 | -2 | 6 | 154 | 996 | -4 | 3 | 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 992 | -1 | 2 | 73 | 997 | -1 | 6 | 168 | 996 | -3 | 3 | 81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 993 | 0 |  | 120 | 997 | -1 | 5 | 135 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-5.0$ STD DEV $=4.2$ MAX $=3.5$ AT 2350 GMT ON DAY 26 MIN $=-15.9$ AT 1420 GMT ON DAY 4
* THETA (K) * MEAN $=268.37$
* PRESSURE (MB) * MEAN $=997.6$ STD DEV $=5.9$ MAX $=1012.7$ AT 0 GMT ON DAY 5 MIN $=984.2$ AT 1600 GMT ON DAY 13
* WINDS (M/S) * MEAN $=2.7$ STD DEV $=1.8$ RESULTANT $=1.4$ FROM 124. CONSTANCY $=0.51$ MAX $=13.2$ FROM 191 . AT 2300 GMT DAY 23 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $1.2 \%$ WINDS: $1.2 \%$

 $\begin{array}{lllllllllllllllllllllll}\text { PERCENT } & 4 & 7 & 12 & 18 & 11 & 5 & 9 & 12 & 10 & 4 & 1 & 1 & 0 & 1 & 2 & 2\end{array}$


00
03
06
09 12 15 18 21

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-8.2$ Std dev $=2.3$ MAX $=-2.6$ at 340 GMT ON day 10 MIN $=-16.2$ at 1730 GMt ON DAY 9
* theta (K) * MEAN $=275.02$
* PRESSURE (MB) * MEAN $=878.2$ STD DEV $=5.6$ MAX $=887.6$ AT 1150 GMT ON DAY 3 MIN $=862.0$ AT 1440 GMT ON DAY 4
* WINDS (M/S) * MEAN $=14.7$ STD DEV $=5.6$ RESULTANT $=14.5$ FROM 178. CONSTANCY $=0.99$ MAX $=32.3$ FROM 170 . AT 1500 GMT DAY 4
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $71.4 \%$ PRESSURE: $71.4 \%$ WINDS: $71.4 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S $\quad S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 13 & 83 & 4 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$



## MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-14.0$ STD DEV $=4.1$ MAX $=-4.8$ AT 230 GMT ON DAY 12 MIN $=-21.6$ AT 1700 GMT ON DAY 16
* THETA (K) * MEAN $=268.76$
* PRESSURE (MB) * MEAN $=880.2$ STD DEV $=5.1$ MAX $=887.2$ AT 2210 GMT ON DAY 16 MIN $=858.3$ AT 1850 GMT ON DAY 18 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $54.9 \%$ PRESSURE: $54.9 \%$ WINDS: 100.0 \% WIND SPEED (M/S): 0-2 $2-4 \quad 4-6 \quad 6-818-1010-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW


HR PP TT VV DD DAY 1
00
03
06
09
12
15 18 21

|  |  | DAY 8 |  | DAY | 9 |  | DAY 10 |  | DAY 11 |  | DAY 12 |  | DAY 13 |  | DAY 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 |  |  |  |  |  |  |  | 880 | -20 | 870 | -18 | 871 | -17 | 866 | -17 |
| 03 |  |  | 857 | -19 |  | 863 | -20 | 882 | -17 | 868 | -17 | 871 | -16 | 865 | -15 |
| 06 |  |  | 858 | -17 |  | 866 | -21 | 882 | -17 | 867 | -17 | 871 | -16 | 865 | -15 |
| 09 |  |  | 860 | -18 |  | 867 | -23 | 882 | -19 | 867 | -19 | 872 | -16 | 864 | -16 |
| 12 |  |  | 860 | -20 |  | 872 | -25 | 882 | -21 | 867 | -20 | 871 | -17 | 865 | -16 |
| 15 |  |  | 861 | -23 |  | 874 | -25 | 879 | -22 | 867 | -21 | 870 | -18 | 865 | -17 |
| 18 |  |  | 862 | -25 |  | 876 | -24 | 875 | -21 | 868 | -21 | 868 | -19 | 866 | -18 |
| 21 |  |  | 860 | -24 |  | 878 | -23 | 873 | -20 | 870 | -19 | 867 | -18 | 866 | -18 |
|  |  | DAY 15 |  | DAY 16 | 16 |  | DAY 17 |  | DAY 18 |  | DAY 19 |  | DAY 20 |  | DAY 21 |
| 00 |  |  | 875 | -15 |  | 872 | -17 | 871 | -19 |  |  |  |  | 874 | -20 |
| 03 | 868 | -17 | 875 | -14 |  | 872 | -17 | 871 | -17 | 885 | -18 | 882 | -15 | 874 | -19 |
| 06 | 869 | -17 | 875 | -14 |  | 872 | -17 | 873 | -17 | 886 | -17 | 880 | -15 | 873 | -19 |
| 09 | 870 | -20 | 876 | -15 |  | 872 | -20 | 875 | -19 | 887 | -18 | 879 | -16 | 873 | -23 |
| 12 | 871 | -21 | 875 | -15 |  | 873 | -22 | 877 | -20 | 888 | -18 | 879 | -17 | 872 | -25 |
| 15 | 872 | -21 | 874 | -16 |  | 872 | -23 | 880 | -21 | 887 | -17 | 876 | -19 | 871 | -26 |
| 18 | 873 | -18 | 873 | -17 |  | 871 | -23 | 881 | -22 | 886 | -16 | 874 | -21 | 869 | -27 |
| 21 | 874 | -16 | 872 | -18 |  | 870 | -21 | 882 | -22 | 885 | -16 | 874 | -22 | 869 | -26 |
|  |  | DAY 22 |  | DAY 23 |  |  | DAY 24 |  | DAY 25 |  | DAY 26 |  | DAY 27 |  | DAY 28 |
| 00 | 868 | -23 | 876 | -20 |  |  |  | 873 | -16 | 886 | -13 | 887 | -13 |  |  |
| 03 | 868 | -22 | 876 | -19 |  | 876 | -17 | 875 | -14 | 886 | -12 | 887 | -13 | 883 | -15 |
| 06 | 869 | -22 | 876 | -18 |  | 875 | -17 | 876 | -14 | 886 | -11 | 886 | -14 | 882 | -15 |
| 09 | 869 | -22 | 876 | -17 |  | 874 | -18 | 878 | -14 | 887 | -11 | 885 | -16 | 882 | -18 |
| 12 | 871 | -23 | 877 | -18 |  | 873 | -17 | 879 | -15 | 887 | -11 | 885 | -18 | 881 | -21 |
| 15 | 872 | -23 | 877 | -19 |  | 869 | -17 | 881 | -15 | 886 | -12 | 884 | -18 | 880 | -21 |
| 18 | 874 | -21 | 876 | -19 |  | 871 | -17 | 883 | -14 | 886 | -12 | 884 | -16 | 879 | -20 |
| 21 | 875 | -21 | 877 | -19 |  | 872 | -17 | 884 | -14 | 886 | -12 | 883 | -16 | 878 | -21 |
|  |  | DAY 29 |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |
| 00 |  |  | 859 | -33 |  | 866 | -29 |  |  |  |  |  |  |  |  |
| 03 | 874 | -21 | 859 | -31 |  | 868 | -27 |  |  |  |  |  |  |  |  |
| 06 | 872 | -22 | 859 | -31 |  | 869 | -27 |  |  |  |  |  |  |  |  |
| 09 | 869 | -27 | 861 | -33 |  | 872 | -28 |  |  |  |  |  |  |  |  |
| 12 | 868 | -34 | 861 | -32 |  | 876 | -27 |  |  |  |  |  |  |  |  |
| 15 | 865 | -35 | 862 | -31 |  | 881 | -27 |  |  |  |  |  |  |  |  |
| 18 | 862 | -35 | 864 | -30 |  | 885 | -27 |  |  |  |  |  |  |  |  |
| 21 | 860 | -35 | 865 | -31 |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE ( $C$ ) * MEAN $=-19.7$ STD dEV $=5.1$ MAX $=-10.4$ AT 640 GMT ON DAY 26 MIN $=-35.4$ AT 1330 GMt ON DAY 29
* theta (K) * MEAN $=263.41$
* PRESSURE (MB) * MEAN $=873.8$ STD DEV $=7.5$ MAX $=890.9$ at 2320 GMT ON DAY 31 MIN $=856.4$ AT 330 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-hourly observations * temperature: $29.0 \%$ PRESSURE: $29.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-23.6$ STD DEV $=3.7$ MAX $=-16.6$ AT 330 GMT ON DAY 22 MIN $=-34.0$ AT 1820 GMT ON DAY 30
* THETA (K) * MEAN $=258.86$
* PRESSURE (MB) * MEAN $=879.7$ STD DEV $=7.2$ MAX $=893.5$ AT 1030 GMT ON DAY 1 MIN $=861.5$ AT 1000 GMT ON DAY 8
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.7 \%$ PRESSURE: $3.7 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
WIND DIRECTION: $\quad$ N $\quad$ NNE $\quad$ NE

HR PP TT VV DD

|  |  | DAY | 1 |
| :--- | :--- | :--- | :--- |
| 00 | 874 | -30 |  |
| 03 | 873 | -29 |  |
| 06 | 874 | -29 |  |
| 09 | 875 | -29 |  |
| 12 | 875 | -31 |  |
| 15 | 876 | -32 |  |
| 18 | 875 | -33 |  |
| 21 | 875 | -33 |  |
|  |  | DAY | 8 |
| 00 | 864 | -24 |  |
| 03 | 865 | -23 |  |
| 06 | 867 | -23 |  |
| 09 | 868 | -23 |  |
| 12 | 871 | -23 |  |
| 15 | 875 | -24 |  |
| 18 | 877 | -24 |  |
| 21 | 878 | -25 |  | DAY 15

$\begin{array}{lll}00 & 875 & -39\end{array}$
$\begin{array}{lll}03 & 873 & -38\end{array}$
$\begin{array}{lll}06 & 872 & -39\end{array}$
$09 \quad 871$ - 39
$\begin{array}{lll}12 & 870 & -38\end{array}$
$\begin{array}{lll}15 & 871 & -38\end{array}$
$\begin{array}{lll}18 & 871 & -38\end{array}$
$\begin{array}{lll}21 & 871 & -38\end{array}$
DAY 22
00
$03 \quad 889-25$
$06 \quad 890-22$
$09 \quad 890-21$
$12 \quad 886-20$
$\begin{array}{lll}15 & 881 & -21\end{array}$
$\begin{array}{lll}18 & 881 & -20\end{array}$
21
$00 \quad 881$-20
$03 \quad 880-20$
$06 \quad 878-20$
$09 \quad 877-20$
$12 \quad 876$ - 21
$\begin{array}{lll}15 & 874 & -22\end{array}$
$\begin{array}{lll}18 & 872 & -22\end{array}$
$21 \quad 871-22$

$\begin{array}{cc}\text { PP TT VV } & \text { DD } \\ \text { DAY } & 4\end{array}$

| PP |  | DD |
| :---: | :---: | :---: |
|  | DAY 5 |  |
| 877 | -26 |  |
| 876 | -26 |  |
| 874 | -27 |  |
| 874 | -29 |  |
| 874 | -31 |  |
| 874 | -33 |  |
| 872 | -34 |  |
| 872 | -36 |  |
|  | DAY 12 |  |
| 864 | -35 |  |
| 864 | -35 |  |
| 864 | -37 |  |
| 864 | -39 |  |
| 864 | -39 |  |
| 864 | -40 |  |
| 864 | -40 |  |
| 865 | -41 |  |
|  | DAY 19 |  |
| 876 | -26 |  |
| 873 | -26 |  |
| 871 | -26 |  |
| 869 | -25 |  |
| 868 | -26 |  |
| 868 | -26 |  |
| 865 | -26 |  |
| 866 | -26 |  |
|  |  |  |
| 891 | -21 |  |
| 890 | -20 |  |
| 887 | -19 |  |
| 883 | -20 |  |
| 882 | -20 |  |
| 882 | -20 |  |
| 879 | -21 |  |
| 879 | -19 |  |



* temperature ( $C$ ) * mean $=-29.0$ Std dev $=6.4$ MAX $=-17.1$ AT 2340 GMT ON DAY 27 MIN $=-41.4$ AT 1350 GMT ON DAY 13
* THETA (K) * MEAN $=253.76$
* PRESSURE (MB) * MEAN $=873.8$ STD DEV $=6.5$ MAX $=892.7$ AT 1620 GMT ON DAY 25 MIN $=861.4$ AT 710 GMT ON DAY 17 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.8 \%$ PRESSURE: $4.8 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-24.6$ STD DEV $=5.3$ MAX $=-14.8$ AT 2340 GMT ON DAY 5 MIN $=-35.1$ AT 50 GMT ON DAY 11
* THETA (K) * MEAN = 257.42
* PRESSURE (MB) * MEAN $=885.3$ STD DEV $=9.5$ MAX $=903.1$ AT 1110 GMT ON DAY 4 MIN $=861.4$ AT 600 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT O GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $36.2 \%$ PRESSURE: $\mathbf{3 6 . 2}$ \% WINDS: 100.0 \%

WIND SPEED (M/S): 0-2 $2-4 \quad 4-6 \quad 6-8 \quad 8-10 \quad 10-1212-14 \quad 14-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* temperature ( $C$ ) * mean $=-28.9$ Std dev $=5.8$ max $=-12.9$ at 1540 GMT ON DAY 29 MIN $=-40.4$ AT 1710 GMt ON DAY 5
* Theta (K) * MEAN $=253.72$
* PRESSURE (MB) * MEAN $=875.3$ STD DEV $=7.7$ MAX $=899.4$ AT 1440 GMT ON DAY 28 MIN $=861.9$ AT 1930 GMT ON DAY 6
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $23.8 \%$ PRESSURE: $23.8 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18 -20 $\quad 20-25$ 25-30
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S $\quad$ S


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-26.5$ STD DEV $=3.7$ MAX $=-19.1$ AT 330 GMT ON DAY 8 MIN $=-35.4$ AT 2300 GMT ON DAY 5
* THETA (K) * MEAN $=256.03$
* PRESSURE (MB) * MEAN $=877.2$ STD DEV $=10.8$ MAX $=894.4$ AT 1110 GMT ON DAY 7 MIN $=852.8$ AT 2150 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $69.8 \%$ PRESSURE: $69.8 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 $4-6 \quad 6-8 \quad 8-10 \quad 10-1212-1414-16 \quad 16-18 \quad 18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-22.1$ Std dev $=4.3$ max $=-10.5$ at 600 gmt on day 30 min $=-32.4$ at 1730 gmt on day 22
* THETA (K) * MEAN $=260.95$
* PRESSURE (MB) * MEAN $=873.9$ STD DEV $=6.5$ MAX $=885.0$ at 600 GMT ON DAY 9 MIN $=859.2$ at 810 GMt ON DAY 22

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $27.4 \%$ PRESSURE: $27.8 \%$ UINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE $\quad \mathbf{S}$


* TEMPERATURE (C) * MEAN $=-12.7$ STD DEV $=5.2$ MAX $=-2.5$ AT 510 GMT ON DAY 27 MIN $=-27.4$ AT 1900 GMT ON DAY 3
* THETA (K) * MEAN $=269.86$
* PRESSURE (MB) * MEAN $=883.0$ STD DEV $=8.6$ MAX $=897.0$ AT 130 GMT ON DAY 21 MIN $=856.5$ AT 830 GMT ON DAY 5
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $10.8 \%$ PRESSURE: $10.8 \%$ WINDS: $100.0 \%$
 PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW


* TEMPERATURE (C) * MEAN $=-10.0$ STD DEV $=3.0$ MAX $=-3.0$ AT 500 GMT ON DAY 25 MIN $=-21.4$ AT 1700 GMT ON DAY 13
* THETA (K) * MEAN $=272.26$
* PRESSURE (MB) * MEAN $=888.2$ STD DEV $=5.5$ MAX $=900.7$ AT 1230 GMT ON DAY 5 MIN $=875.0$ AT 1940 GMT ON DAY 15
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $5.2 \%$ PRESSURE: $5.2 \%$ WINDS: 100.0 \%

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

STATION : 8947 RACER ROCK
JAN

LAT : 64.07S LONG: 61.61W ELEVATION: 17 M HR

PP TT VV D
PP TT WV DD PP TT VV DD DAY 1 DAY 2 DAY 3

| DAY |  | 8 |  |
| :---: | :---: | :---: | :---: |
| 981 | 1 | 6 | 78 |
| 981 | 1 | 5 | 85 |
| 981 | 1 | 8 | 85 |
| 980 | 1 | 5 | 82 |
| 981 | 2 | 6 | 50 |
| 981 | 0 | 6 | 53 |
| 982 | 1 | 9 | 78 |
| 983 | 1 | 5 | 49 |

DAY 10
9841330
98413343
985000
$985 \quad 200$
'8
$987 \quad 1127$

DAY 16

DAY 12
DAY 11 DAY 5

## DAY 4

$980 \quad 0 \quad 5344$
$980 \quad 1 \quad 3347$ DAY 13 $\begin{array}{llll}983 & 2 & 9 & 52\end{array}$

98511757

DAY 17

98311310

DAY 18
$995 \quad 1 \quad 5 \quad 195$

1001000

100021351

DAY 25

|  | DAY | 24 |
| ---: | ---: | ---: | ---: |
| 995 | 211 |  |
| 966 |  |  |

DAY 26

DAY 20
DAY 19


DAY 27
DAY
$983 \quad 1 \quad 5 \quad 66$
$983 \quad 1 \quad 5 \quad 73$
DAY 21

DAY 28
$983 \quad 214320$
$985 \quad 3 \quad 13 \quad 324 \quad 993 \quad 2 \quad 0 \quad 0$

| 985 | 2 | 5 | 7 | 982 | 1 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$981011 \quad 74$

| 973 | 1 | 3 | 25 |
| :--- | :--- | :--- | :--- |
| 975 | 1 | 4 | 336 |
| 977 | 2 | 5 | 268 |
| 978 | 2 | 6 | 350 |
| 980 | 3 | 6 | 40 |
| 980 | 3 | 5 | 42 |
| 981 | 4 | 5 | 50 | DAY 14

```
991 4 8 278 978 0 % 7 129
```

$\begin{array}{llllllll}993 & 2 & 8 & 84 & 981 & 1 & 2 & 196\end{array}$
DAY 23

PP TT VV DD DAY 7
.
$995 \quad 2 \quad 8 \quad 43$
985313324
99320

5
982

DAY 29 DAY 30 DAY 31
$\begin{array}{lllllllllll}996 & 2 & 3 & 341 & 999 & 1 & 4 & 102 & 996 & 2 & 2\end{array} 1$

| 998 | 1 | 6 | 337 | 997 | 1 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{lllllllll} & 91 & 996 & 4 & 0 & 0 & 997 & 0 & 8 \\ 71\end{array}$

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT O GMT ON DAY O MIN =****** AT O GMT ON DAY O
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $77.8 \%$ PRESSURE: $77.4 \%$ WINDS: $77.4 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $80.8 \%$ PRESSURE: $80.4 \%$ WINDS: $80.4 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: N NNE NE ENE E ESE $\quad$ SE $\quad$ SSE $\quad \mathbf{S}$ SSW $\begin{array}{llllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| PP | TT VV DD | PP | TT VV | DD |  |  |  |
| :--- | ---: | ---: | :--- | :---: | ---: | ---: | ---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 983 | 2 | 8 | 275 | 988 | 1 | 0 | 0 |

$982 \quad 212350$
99202195
99214357
$991 \quad 1 \quad 8 \quad 71$
 DAY 1
$\begin{array}{lllllll}983 & 2 & 8 & 275 & 988 & 1 & 0\end{array} 0$
982212350
99202195
99214357
9911881

996200
DAY 13 DAY 14
00
03
06

DAY 17
100014185 $\begin{array}{llll}1000 & -1 & 1 & 78\end{array}$

998000
998000
$973-121215$ DAY 18

DAY 19
$983-1 \quad 344$

DAY 26
$\begin{array}{llll}999 & -3 & 4 & 194\end{array}$

## $976-210265$

$\begin{array}{lll}981 & -2 \quad 4305\end{array}$
09
12
15
18
21
DAY 29

DAY 30
DAY 31

DAY 20
DAY 21
$977 \quad 2 \quad 9310$
$974 \quad 113331$
$977 \quad 1 \quad 7247$
$983 \quad 0 \quad 7196$
989221195
$\begin{array}{llll}978 & -1 & 10 & 300\end{array}$

DAY 28 $\begin{array}{llll}975 & 1 & 14 & 32\end{array}$
$975 \quad 0 \quad 11337$

## $982 \quad 11453$

DAY 27

100114326
$\begin{array}{llll}982 & -1 & 0 & 0\end{array}$

00
03
06
09
12
15
18
21

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** at 0 GMT ON DAY 0 min =****** at 0 GMT ON day 0
* theta (K) * mean $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $85.1 \%$ PRESSURE: $85.1 \%$ WINDS: $85.1 \%$ $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 50-50 \\ 50-55 & 55-60 & 61\end{array}$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
97

PP TT VV DD
DAY 2
DAY 1
00
03
06
09
12
15
18
0

00
03
06
09
12
15
18
21

0 03

```
987
```

```
972 -3 13 296
```

03
MAY
HR
00
03
06
09
12
15
18
21

```
97
PP TT VV DD PP TT VV DD PP TT VV DD
        DAY 1 DAY 2 DAY 3
            DAY 2 DAY 3
```

PP TT VV DD
DAY 4
PP
TT VV
DAY 5
DD
$\begin{array}{lrr}\text { PP TT VV } & \text { DD } \\ \text { DAY } & 6\end{array}$
PP TT VV DD
DAY 7
$\begin{array}{llll}989 & -3 & 16 & 223\end{array}$
DAY 11
DAY 12
DAY 13
DAY 8
DAY 9
DAY 10
$\begin{array}{llll}992 & -3 & 0 & 0\end{array}$
DAY 15
DAY 16
DAY 17
DAY 22
DAY 23
DAY 24
$\begin{array}{llll}1010 & -2 & 8 & 137\end{array}$
$\begin{array}{llll}1014 & -2 & 3 & 350\end{array}$
1011 -2 5360
DAY 18
DAY 19
DAY 20

$$
\begin{array}{llll}
993 & -5 & 10 & 205
\end{array}
$$

$$
\begin{array}{llll}
995 & -6 & 0 & 0
\end{array}
$$

$$
\begin{array}{llll}
995 & -5 & 5 & 255
\end{array}
$$

                \(\begin{array}{llll}995 & -5 & 5 & 255\end{array}\)
    $$
\begin{array}{llll}
997 & -4 & 4 & 14
\end{array}
$$

                                    \(\begin{array}{llll}997 & -4 & 4 & 14\end{array}\)
    $$
\begin{array}{llll}
997 & -4 & 3 & 7
\end{array}
$$

                            DAY 25
                DAY 26
            DAY 27
                            DAY 28
            \(1008 \quad 313219\)
    DAY 18

DAY 28

$$
1008 \quad 313219
$$

                                    DAY 21
    DAY 21

$$
\begin{array}{ccc} 
& \text { DAY } & 14 \\
982 & -1 & 8 \\
329
\end{array}
$$

03
06
09
12

| DAY 29 |  |  |  | DAY 30 |  |  |  | DAY 31 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 001003 |  | 2 | 40 |  |  |  |  | 999 | -1 | 4 | 1 |
| 03 |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |
| 091000 | -1 | 3 | 188 |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  | 999 | 0 | 8 | 168 |  |  |  |  |



* theta (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0

* MISSING 3-hourly observations * temperature: $93.5 \%$ PRESSURE: $93.5 \%$ WINDS: $93.5 \%$

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| WIND SPEED (M/S): | $0-2$ | $2-4$ | -6 | $6-8$ | $8-10$ | $10-12$ | $12-14$ | $14-16$ | $16-18$ | $18-20$ | $20-25$ | $25-30$ | $30-35$ | $35-40$ | $40-45$ | $45-50$ | $50-55$ | $55-60$ |
| PERCENT: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | WIND DIRECTION: N NNE NE ENE E ESE SE SSE S $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV DD

PP TT VV DD PP TT VV DD
DAY 2 DAY 3

PP TT VV DD DAY 4

PP TT VV DD DAY 5 DD

PP TT VV DD DAY 6 PP DAY 7 $\begin{array}{lll}1005 & -210 \quad 54\end{array}$
$999 \quad 0 \quad 3 \quad 360$
$\begin{array}{llll}1004 & -5 & 5 & 30\end{array}$
$\begin{array}{llll}1004 & -5 & 6 & 11\end{array}$
$\begin{array}{lll}1004 & -6 & 5360\end{array}$
1005 -6 6360 DAY 14

$$
\begin{array}{llll}
1003 & -3 & 0 & 0
\end{array}
$$

06
09
12
15
18
21
DAY 15
00
03
06

09
12
15
18
21

$$
\text { DAY } 22
$$

DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

03
06
09
12
15
18
21
DAY 29
DAY 30

00
03
06
09
12
15
18

21

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=$ ****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON.DAY 0
* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=$ ****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $96.2 \%$ PRESSURE: $96.2 \%$ WINDS: $96.2 \%$


WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array} 0$

PP TT VV DD DAY 4

DD
$\begin{array}{lrrr}\text { PP TT } & \text { VV } & \text { DD } \\ \text { DAY } & 5 & \end{array}$
PP
$\begin{array}{rrr}\text { TT WV DD } \\ \text { DAY } 6 & \end{array}$
$\begin{array}{lrrr}\text { PP } & \text { TT } & \text { VV } & \text { DD } \\ \text { DAY } & 7 & \end{array}$

DAY 8
DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

DAY 30
DAY 31


* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 99.6 \% PRESSURE: $99.6 \%$ WINDS: $99.6 \%$

PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
$\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
-331-


PP TT VV DD
DAY 3
PP TT VV DD
DAY 4
PP TT VV DD DAY 5

PP TT VV DD DAY 6

PP TT WV DD DAY 7
$\begin{array}{lllllll}1004 & -10 & 3 & 312 & 998 & -9 & 3 \\ 160\end{array}$ 1004-11 3351
$\begin{array}{llll}997 & -5 & 6 & 94\end{array}$

| 995 | -3 | 9 | 47 |
| :--- | :--- | :--- | :--- |

1002-10 2170
$\begin{array}{llll}991 & -1 & 12 & 37\end{array}$

| 989 | -7 | 6 | 206 | 1002 | -6 | 0 | 0 | 1000 | -8 | 1 | 184 | 989 | -2 | 13 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

991 -8 3 DAY 8 DAY $9 \quad$ DAY $10 \quad$ DAY 11

| $c$ | DAY | 29 |  | DAY |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 906 | -1 | 12 | 268 | 1005 | -1 | 12 | 203 |
| 996 | -2 | 1 | 4 | 1009 | -1 | 10 | 195 |
| 996 | -2 | 0 | 0 | 1013 | -2 | 2 | 158 |
| 997 | -1 | 3 | 292 | 1015 | -4 | 6 | 175 |
| 998 | -1 | 9 | 216 | 1017 | -2 | 4 | 185 |
| 1000 | -1 | 11 | 201 |  |  |  |  |
| 1001 | -2 | 16 | 201 | 1019 | -4 | 3 | 167 |

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=\star * * * * * ~ a t \quad 0$ GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* theta (K) * mean $=0.00$


* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $86.7 \%$ PRESSURE: $86.7 \%$ WINDS: $86.7 \%$

 WIND DIRECTION: $\quad$ N $\quad$ NNE $\quad$ NE ENE $\quad$ E $\quad$ ESE $\quad$ SE

OCT 97


* TEMPERATURE (C) * MEAN $=-2.9$ STD DEV $=1.8$ MAX $=2.4$ AT 1740 GMT ON DAY 27 MIN $=-7.9$ AT 850 GMT ON DAY 15
* THETA (K) * MEAN $=271.27$
* PRESSURE (MB) * MEAN $=987.2 \mathrm{STD} D E V=11.8 \mathrm{MAX}=1018.7 \mathrm{AT} 10$ GMT ON DAY 1 MIN $=958.8$ AT 40 GMT ON DAY 19
* WINDS (M/S) * MEAN $=6.0$ STD DEV $=4.6$ RESULTANT $=1.4$ FROM 52. CONSTANCY $=0.23$ MAX $=27.0$ FROM 66 . AT 2320 GMT DAY 7
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $8.1 \%$ PRESSURE: $6.9 \%$ WINDS: $6.9 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

HR PP TT VV DD
$\begin{array}{lllll}00 & 973 & -5 & 10 & 206\end{array}$
$\begin{array}{llll}03 & 974 & -5 & 12 \\ 220\end{array}$
$\begin{array}{lllll}06 & 975 & -5 & 13 & 209\end{array}$
$\begin{array}{lllll}09 & 980 & -6 & 14 & 165\end{array}$
$\begin{array}{lllll}12 & 984 & -4 & 10 & 189\end{array}$
$\begin{array}{lllll}15 & 986 & -3 & 5 & 201\end{array}$
$\begin{array}{lllll}18 & 988 & -3 & 9 & 201\end{array}$
$\begin{array}{llll}21 & 991 & -2 & 629\end{array}$ DAY 8
$\begin{array}{lllll}00 & 986 & -3 & 10 & 156\end{array}$
$\begin{array}{lllll}03 & 989 & -4 & 9 & 142\end{array}$
$\begin{array}{lllll}06 & 991 & -4 & 9 & 144 \\ 09 & 993 & -5 & 10 & 125\end{array}$
$\begin{array}{llllll}09 & 993 & -5 & 10 & 125\end{array}$
12
$\begin{array}{lllll}15 & 998 & -4 & 7 & 201\end{array}$
$\begin{array}{lllll}18 & 999 & -4 & 12 & 135\end{array}$
$\begin{array}{llll}21 & 1000 & -4 & 11142\end{array}$

## DAY 15

$\begin{array}{llll}00 & 1004 & -2 & 1330\end{array}$
$\begin{array}{lllll}03 & 1003 & -2 & 3 & 243\end{array}$
$\begin{array}{lllll}06 & 1002 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}09 & 1002 & -2 & 4198\end{array}$

| PP | TT | vv | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY |  | 2 |  | DAY |  |  |  |
| 992 | -4 | 9 | 192 | 987 | -4 | 0 | 0 |
| 992 | -4 | 12 | 213 | 987 | -4 | 0 | 0 |
| 993 | -4 | 8 | 209 | 987 | -3 | 1 | 91 |
| 993 | -3 | 0 | 0 | 986 | -3 | 1 | 42 |
| 992 | -2 | 0 | 0 | 985 | -2 | 2 | 101 |
| 990 | -2 | 4 | 147 | 985 |  | 0 | 0 |
| 987 |  | 0 | 0 | 984 | 0 | 0 | 0 |
| 986 | 0 | 1 | 180 | 984 | 0 | 3 | 274 |
|  | DAY | 9 |  | DAY 10 |  |  |  |
| 1002 | -5 | 13 | 139 | 1003 | -5 | 2 | 226 |
| 1003 | -6 | 8 | 144 | 1003 | -7 | 0 | 0 |
| 1003 | -6 | 9 | 151 | 1003 | -6 | 0 | 0 |
| 1004 | -6 | 9 | 135 | 1003 | -5 | 0 | 0 |
| 1004 | -4 | 7 | 105 | 1003 | -3 | 1 | 105 |
| 1004 | -3 | 2 | 73 | 1003 | -2 | 5 | 67 |
|  |  |  |  | 1003 | -1 | 1 | 75 |
| 1003 | -2 | 0 | 0 | 1003 | -2 | 1 | 26 |
| DAY 16 |  |  |  | DAY 17 |  |  |  |
| 992 | -3 | 2 | 180 | 996 | -1 | 4 | 97 |
| 990 | -3 | 4 | 189 | 995 | -1 | 0 | 0 |
| 988 | -1 | 14 | 209 | 995 | -1 | 0 | 0 |
| 988 | 1 | 17 | 223 |  |  |  |  |

$$
12
$$

15
18
$\begin{array}{lllllllllllll}21 & 994 & -1 & 2 & 36 & 996 & 1 & 4 & 178 & 997 & 1 & 2 & 5\end{array}$
DAY 22
$\begin{array}{lllll}00 & 1003 & -2 & 1 & 40\end{array}$
$\begin{array}{lllll}03 & 1003 & -3 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 1003 & -2 & 3 & 70\end{array}$
$\begin{array}{lllll}09 & 1003 & -2 & 3 & 45\end{array}$

$$
12
$$

15
$\begin{array}{lllll}18 & 1005 & -2 & 4 & 14\end{array}$
$\begin{array}{lllll}21 & 1006 & -1 & 3 & 36\end{array}$ DAY 29
$\begin{array}{lllll}00 & 990 & -1 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 991 & -1 & 1 & 92\end{array}$
$\begin{array}{lllll}06 & 992 & -1 & 2 & 236\end{array}$
$\begin{array}{lllll}09 & 994 & -1 & 3 & 340\end{array}$
$\begin{array}{lllll}12 & 995 & -1 & 5 & 15\end{array}$

PP TT VV DD DAY 4
$\begin{array}{llll}985 & -2 & 3 & 180\end{array}$
$\begin{array}{llll}985 & -1 & 4 & 87\end{array}$
$\begin{array}{llll}982 & -1 & 9 & 344\end{array}$
$\begin{array}{llll}979 & -1 & 8 & 360\end{array}$
$\begin{array}{llll}976 & -1 & 9 & 40\end{array}$
$\begin{array}{llll}975 & -1 & 4 & 56\end{array}$
$\begin{array}{llll}975 & -1 & 4 & 26\end{array}$ DAY 11
$\begin{array}{llll}1002 & -5 & 3 & 56\end{array}$
$\begin{array}{llll}1002 & -5 & 0 & 0\end{array}$
$\begin{array}{llll}1001 & -5 & 4 & 91\end{array}$
$\begin{array}{llll}1000 & -4 & 4 & 101\end{array}$
$\begin{array}{llll}1000 & -2 & 1 & 15\end{array}$
$\begin{array}{llll}997 & -1 & 1 & 43\end{array}$
$\begin{array}{llll}996 & -3 & 3 & 45\end{array}$
DAY 18
$\begin{array}{llll}997 & -1 & 5 & 2\end{array}$
$\begin{array}{llll}997 & -1 & 2 & 53\end{array}$
$\begin{array}{llll}997 & -1 & 2300\end{array}$
$997 \quad-1 \quad 1343$

15
18
$211000 \quad 0 \quad 4357 \quad 1010 \quad 0 \quad 0$

| PP | TT |  | DD | PP |  |  | DD | PP |  | vv | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 976 | -1 | 5 | 8 | 986 | -3 | 12 | 66 | 976 | -2 | 2 | 230 |
| 976 | -1 | 0 | 0 | 985 | -4 | 10 | 63 | 977 | -1 | 6 | 178 |
| 977 | -2 | 4 | 68 | 984 | -4 | 10 | 74 | 978 | -1 | 4 | 63 |
| 981 | -2 | 5 | 68 | 982 | -3 | 9 | 82 | 980 | -2 | 8 | 340 |
| 983 | -2 | 9 | 54 | 980 | -3 | 9 | 80 | 982 | 2 | 4 | 357 |
|  |  |  |  | 978 | -2 | 7 | 97 | 983 | 0 | 3 | 1 |
| 986 | -2 | 11 | 53 | 977 | -1 | 3 | 142 | 983 | -1 | 7 | 19 |
| 986 | -3 | 11 | 70 | 976 | -2 | 1 | 194 | 984 | -2 | 1 | 84 |
| DAY 12 |  |  |  | DAY 13 |  |  |  | DAY 14 |  |  |  |
| 996 | -4 | 7 | 64 | 993 | -4 | 7 | 61 | 999 | -2 | 0 | 0 |
| 995 | -4 | 7 | 64 | 994 | -5 | 6 | 92 | 1000 | -3 | 0 | 0 |
| 994 | -4 | 6 | 49 | 995 | -4 | 3 | 149 | 1000 | -3 | 0 | 0 |
| 993 | -4 | 8 | 67 | 996 | -3 | 5 | 185 | 1001 | 0 | 1 | 172 |
| 994 | -4 | 10 | 63 | 997 | -1 | 4 | 191 | 1001 |  | 0 | 0 |
| 993 | -4 | 10 | 74 |  |  |  |  |  |  |  |  |
| 993 | -3 | 9 | 53 | 998 | 1 |  | 205 |  |  |  |  |
| 993 | -3 | 10 | 74 | 999 | 2 |  | 293 | 1003 | -1 | 0 | 0 |
| DAY 19 |  |  |  | DAY 20 |  |  |  |  | DAY | 21 |  |
| 995 | -1 | 6 | 358 | 999 | -2 | 7 | 2 | 1003 | -2 | 5 | 43 |
| 997 | -1 | 8 | 59 | 1000 | -3 | 10 | 12 | 1003 | -3 | 5 | 50 |
| 998 | -1 | 5 | 80 | 1001 | -3 | 8 | 4 | 1003 | -3 | 2 | 37 |
| 999 | -1 | 0 | 0 | 1002 | -2 | 6 | 341 | 1003 | -3 | 0 | 0 |
| 999 | -1 | 5 | 345 | 1002 | -2 | 9 | 26 | 1003 | -1 | 4 | 26 |
| 999 | -1 | 5 | 4 | 1002 | -2 | 8 | 12 | 1003 | -2 | 3 | 341 |
| 998 | -1 | 8 | 360 | 1003 | -1 | 7 | 21 | 1003 | 0 | 1 | 39 |
| 999 | -2 | 6 | 358 | 1003 | -2 |  | 37 | 1003 | -1 | 3 | 47 |
|  | DAY | 26 |  |  | DAY |  |  |  | DAY | 28 |  |
| 992 | -1 | 14 | 53 |  |  |  |  |  |  |  |  |
| 993 | -1 | 13 | 66 | 982 | -1 |  | 187 | 979 | -1 | 5 | 154 |
| 995 | -1 | 0 | 0 | 978 | -1 |  | 270 | 980 | -1 | 7 | 180 |
| 994 | -1 | 9 | 81 | 974 | 2 |  | 232 | 981 | -1 | 7 | 184 |
| 993 | 0 | 10 | 84 | 974 |  | 12 | 161 |  |  |  |  |
| 992 | 0 | 6 | 90 | 976 |  |  | 293 |  |  |  |  |
| 991 | 0 |  | 101 |  |  |  |  | 986 | -1 | 5 | 78 |
| 989 | 0 | 7 | 90 | 978 | -1 | 4 | 88 | 988 | 0 | 2 | 341 |

$\qquad$

* temperature ( C ) * mean $=-1.9$ Std dev $=1.7 \mathrm{MAX}=3.1 \mathrm{AT} 950 \mathrm{GmT}$ ON DAY $30 \mathrm{MIN}=-6.6$ at 110 GMt ON DAY 10
* THETA (K) * MEAN $=271.73$
* PRESSURE (MB) * MEAN $=993.9$ STD DEV $=9.5$ MAX $=1010.5$ AT 2210 GMT ON DAY 30 MIN $=973.2$ AT 40 GMT ON DAY 1
* WINDS (M/S) * MEAN $=4.9 \mathrm{STD}$ DEV $=4.0$ RESULTANT $=1.9$ FROM 81 . CONSTANCY $=0.39$ MAX $=21.0$ FROM 53. AT 2300 GMT DAY 25
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $16.2 \%$ PRESSURE: $14.2 \%$ WINDS: $14.2 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllllll}\text { PERCENT } & 10 & 7 & 14 & 16 & 12 & 2 & 5 & 5 & 7 & 7 & 4 & 1 & 2 & 2 & 0 & 6\end{array}$

DEC 97


* TEMPERATURE (C) * MEAN $=0.8$ STD DEV $=1.3 \mathrm{MAX}=4.6$ AT 1150 GMT ON DAY 15 MIN $=-1.8$ AT 340 GMT ON DAY 1
* THETA (K) * MEAN $=274.32$
* PRESSURE (MB) * MEAN $=995.7$ STD DEV $=9.6 \mathrm{MAX}=1015.8$ AT 250 GMT ON DAY 3 MIN $=978.1$ AT 1930 GMT ON DAY 21
* WINDS (M/S) * MEAN $=3.1$ STD DEV $=3.1$ RESULTANT $=1.1$ FROM 80. CONSTANCY $=0.35$ MAX $=16.2$ FROM 142 . AT 850 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 22.6 \% PRESSURE: $21.8 \%$ WINDS: $21.8 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 8 & 6 & 12 & 14 & 8 & 2 & 7 & 9 & 4 & 8 & 5 & 2 & 1 & 1 & 5 & 7\end{array}$ -335-


| PP |  | DD |  | TT VV |  |  | TT W | DD |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY 5 |  |  | DAY 6 |  |  | DAY 7 |  |
|  |  |  |  |  |  | 971 | -1 |  | 972 | 2 |  |
| 985 | 0 |  | 959 | 0 |  | 972 | 0 |  | 971 | 1 |  |
| 985 | -1 |  | 959 | 0 |  | 973 | -1 |  | 971 | 1 |  |
| 983 | -1 |  | 961 | -1 |  | 974 | -1 |  | 973 | -1 |  |
| 981 | -1 |  | 963 | -1 |  | 976 | -1 |  | 976 | -1 |  |
| 977 | -1 |  | 966 | -1 |  | 975 | -1 |  | 977 | -1 |  |
| 970 | -2 |  | 968 | -1 |  | 974 | -1 |  | 980 | -1 |  |
| 963 | -1 |  | 970 | -1 |  | 973 | -1 |  | 981 | -1 |  |
|  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 991 | -1 |  |  |  |  |  |  |  |  |  |  |
| 992 | -2 |  | 986 | 0 |  | 982 | 1 |  | 967 | 0 |  |
| 992 | -2 |  | 985 | -1 |  | 978 | -1 |  | 973 | 0 |  |
| 992 | -1 |  | 985 | -1 |  | 974 | -3 |  | 979 | -1 |  |
| 992 | -1 |  | 985 | -2 |  | 972 | -2 |  | 984 | -2 |  |
| 992 | -1 |  | 984 | -2 |  | 969 | -1 |  | 989 | -1 |  |
| 991 | -1 |  | 985 | -2 |  | 967 | 0 |  | 992 | -1 |  |
| 990 | -1 |  | 985 | -1 |  | 965 | 0 |  | 994 | 1 |  |
|  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 985 | -1 |  |  |  |  |  |  |  |  |  |  |
| 985 | 0 |  | 983 | -1 |  | 982 | -1 |  |  |  |  |
| 985 | -1 |  | 984 | -1 |  | 983 | -2 |  | 986 |  |  |
| 985 | -1 |  | 984 | -1 |  | 985 | -2 |  | 986 | -1 |  |
| 984 | -1 |  | 983 | -2 |  | 986 | -2 |  | 987 | -2 |  |
| 984 | -1 |  | 982 | -2 |  | 987 | -3 |  | 987 | -2 |  |
| 984 | -1 |  | 982 | -1 |  | 987 | 0 |  | 988 | 1 |  |
| 984 | -1 |  | 982 | -1 |  | 988 | -1 |  |  |  |  |
|  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 991 | -1 |  | 988 | -1 |  | 987 | -2 |  | 976 | 2 |  |
| 991 | -1 |  | 987 | 0 |  | 989 | 0 |  | 976 | 1 |  |
| 991 | -1 |  | 984 | 0 |  | 990 | -1 |  | 976 | 1 |  |
| 991 | -1 |  | 981 | 0 |  | 992 | -1 |  | 976 | 1 |  |
| 991 | -1 |  | 979 | 0 |  | 992 | 0 |  | 975 | 0 |  |
| 990 | -1 |  | 979 | 0 |  | 990 | 0 |  | 973 | 0 |  |
| 990 | -1 |  | 980 | -1 |  | 986 | 0 |  | 973 | 0 |  |
| 989 | -1 |  | 984 | -2 |  | 980 | -1 |  | 975 | 1 |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-0.6$ Std dev $=0.8$ max $=2.4$ AT 420 GMT ON DAY 22 min $=-2.9$ at 910 GMT ON dAY 13
* THETA (K) * MEAN $=273.89$
* PRESSURE (MB) * MEAN $=982.8$ STD DEV $=8.4$ MAX $=1001.6$ AT 1510 GMT ON DAY 30 MIN $=958.0$ at 120 GMT ON DAY 5

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $6.9 \%$ PRESSURE: $6.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


|  |  |
| :---: | :---: |
|  | DAY 4 |
| 990 | -1 |
| 992 | 0 |
| 993 | 0 |
| 995 | -1 |
| 996 | -1 |
| 997 | -1 |
| 998 | -1 |
| 998 | -1 |
|  | DAY 11 |
| 982 | 0 |
| 980 | 1 |
| 980 | 1 |
| 979 | 0 |
| 980 | -1 |
| 979 | -1 |
| 979 | -2 |
| 979 | -2 |
|  | DAY 18 |
| 978 | 0 |
| 972 | -1 |
| 963 | 0 |
| 959 | 1 |
| 958 | 1 |
| 959 | 1 |
|  | DAY 25 |
| 961 | 4 |
| 960 | 2 |
| 957 | 3 |
| 958 | 2 |
| 956 | 3 |
| 955 | 3 |
| 954 | 3 |


| PP | it VV | DD | PP | TT W | DD | PP | TT Vv | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | day 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 998 | -1 |  | 978 | 0 |  | 981 | 1 |  |
| 997 | -1 |  | 975 | 1 |  | 981 | 1 |  |
| 997 | -1 |  | 974 | 1 |  | 981 | 1 |  |
| 995 | 0 |  | 975 | 1 |  | 978 | 0 |  |
| 993 | 0 |  | 977 | 1 |  | 975 | 1 |  |
| 989 | -1 |  | -978 | 1 |  | 973 | 1 |  |
| 986 | 0 |  | 979 | 1 |  | 970 | 1 |  |
| 983 | 0 |  | 980 | 1 |  | 969 | 1 |  |
|  | DAY 12 |  |  | day 13 |  |  | DAY 14 |  |
| 978 | -1 |  | 972 | 1 |  | 979 | 0 |  |
| 977 | 0 |  | 971 | 2 |  | 980 | 1 |  |
| 976 | 1 |  | 970 | 0 |  | 981 | 0 |  |
| 975 | -1 |  | 971 | -1 |  | 982 | -1 |  |
| 975 | -1 |  | 972 | -1 |  | 983 | -1 |  |
| 974 | -2 |  | 973 | -1 |  | 983 | -1 |  |
| 974 | -2 |  | 974 | -1 |  | 983 | -1 |  |
| 974 | -1 |  | 977 | -1 |  | 983 | 0 |  |
|  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
|  |  |  |  |  |  | 968 | 4 |  |
| 957 | 2 |  | 966 | 3 |  | 968 | 3 |  |
| 955 | 1 |  | 967 | 3 |  | 966 | 4 |  |
| 956 | 0 |  | 968 | 2 |  | 965 | 3 |  |
| 959 | 0 |  | 968 | 2 |  | 964 | 2 |  |
| 961 | 0 |  | 969 | 2 |  | 963 | 3 |  |
| 963 | 2 |  | 968 | 3 |  | 961 | 2 |  |
| 964 | 2 |  | 969 | 3 |  | 959 | 2 |  |
|  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 954 | 1 |  | 970 | 1 |  | 966 | 1 |  |
| 957 | 3 |  | 970 | 1 |  | 966 | 1 |  |
| 960 | 3 |  | 969 | 1 |  | 966 | 1 |  |
| 963 | 2 |  | 969 | 1 |  | 966 | 1 |  |
| 965 | 2 |  | 968 | 1 |  | 968 | 1 |  |
| 967 | 2 |  | 968 | 1 |  | 970 | 1 |  |
| 969 | 2 |  | 966 | 2 |  | 974 | 1 |  |

* temperature ( $C$ ) * mean $=0.7$ Std dev $=1.4$ max $=4.2$ at 330 GMT on day 24 min $=-2.6$ At 740 GMt ON dAY 1
* THETA (K) * MEAN $=275.95$
* PRESSURE (MB) * MEAN $=973.6$ STD DEV $=11.6$ MAX $=998.9$ AT 100 GMT ON DAY 1 MIN $=951.9$ AT 1450 GMT ON DAY 22
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.1 \%$ PRESSURE: $7.1 \%$ WINDS: $100.0 \%$
 $\begin{array}{lcccccccccccccccc}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$ $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

MAR 97

| HR | PP | TT | VV | DD |
| :--- | :--- | :--- | :--- | :--- |
|  |  | DAY | 1 |  |
| 00 |  |  |  |  |
| 03 | 980 | 3 |  |  |
| 06 | 982 | 3 |  |  |
| 09 | 984 | 1 |  |  |
| 12 | 986 | 1 |  |  |
| 15 | 987 | 1 |  |  |
| 18 | 988 | 1 |  |  |
| 21 | 989 | 1 |  |  |


|  |  | DAY | 8 |
| :--- | :--- | :--- | :--- |
| 00 |  |  |  |
| 03 | 972 | 3 |  |
| 06 | 970 | 3 |  |
| 09 | 969 | 3 |  |
| 12 | 966 | 3 |  |
| 15 | 962 | 3 |  |
| 18 | 958 | 3 |  |
| 21 | 953 | 2 |  |

DAY 15
$00949 \quad 1$

| 03 | 949 | 1 | 956 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 06 | 949 | 1 | 956 | 1 |
| 09 | 948 | 0 | 956 | 1 |
| 12 | 951 | 0 | 957 | 0 |
| 15 | 952 | 1 | 956 | 0 |
| 18 | 954 | 0 | 957 | 1 |
| 21 | 955 | -1 | 957 | 1 |
| DAY 22 |  |  |  |  |
| 00 | 972 | -1 | DAY 23 |  |


| 00 | 972 | -1 |
| ---: | ---: | ---: |
| 03 | 968 | -1 |
| 06 | 960 | -1 |
| 09 | 957 | 2 |
| 12 | 957 | 2 |
| 15 | 956 | 1 |
| 18 | 957 | 1 |
| 21 | 961 | 0 |

00
039712
069692
$09 \quad 968 \quad 2$
$\begin{array}{lll}12 & 968 & 2\end{array}$
$\begin{array}{lll}15 & 967 & 2\end{array}$
189652
219632



MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=0.6$ STD DEV $=1.9$ MAX $=4.1$ AT 140 GMT ON DAY 6 MIN $=-7.8$ AT 920 GMT ON DAY 31
* theta (K) * MEAN $=276.16$
* PRESSURE (MB) * MEAN $=969.6$ STD DEV $=11.8$ MAX $=991.4$ at 1240 GMT ON DAY 2 MIN $=940.6$ AT 550 GMt ON dAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.3 \%$ PRESSURE: $7.3 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 HIND DIRECTION: N NNE NE ENE E ESE SE SSE S $\quad$ S
PERCENT


* TEMPERATURE (C) * MEAN $=-7.0$ STD DEV $=4.9$ MAX $=-1.0$ AT 1150 GMT ON DAY 2 MIN $=-21.0$ AT 2120 GMT ON DAY 28
* THETA (K) * MEAN $=268.13$
* PRESSURE (MB) * MEAN $=975.3$ STD DEV $=9.0$ MAX $=994.5$ AT 750 GMT ON DAY 1 MIN $=947.3$ AT 1630 GMT ON DAY 8
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $9.6 \%$ PRESSURE: $9.6 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW PERCENT

HR PP TT VV DD DAY 1

00
03 978-15
06 975-14
09 971-12
12 965-11
$15 \quad 961-9$
$\begin{array}{lll}18 & 960 & -9\end{array}$
21

|  |  | DAY | 8 |
| :--- | :--- | :--- | :--- | :--- |
| 00 |  |  |  |
| 03 | 962 | -6 |  |
| 06 | 964 | -6 |  |
| 09 | 966 | -7 |  |
| 12 | 966 | -10 |  |
| 15 | 965 | -10 |  |
| 18 | 962 | -10 |  |
| 21 | 961 | -10 |  |
|  |  |  |  |
|  | DAY | 15 |  |
| 00 | 976 | -19 |  |
| 03 | 977 | -20 |  |
| 06 | 977 | -20 |  |
| 09 | 978 | -20 |  |
| 12 | 978 | -20 |  |
| 15 | 978 | -19 |  |
| 18 | 978 | -19 |  |

DAY 22
00
$03 \quad 975$-9
$06 \quad 978$ - 15
$09 \quad 980-16$
$12 \quad 982-17$
$\begin{array}{ll}15 & 982-20\end{array}$
$\begin{array}{lll}18 & 981 & -23\end{array}$
$21 \quad 975$-21
DAY 29
00
$03 \quad 981 \quad-3$
$06 \quad 979-3$
$\begin{array}{lll}09 & 976 & -4\end{array}$
$\begin{array}{lll}12 & 972 & -6\end{array}$
$\begin{array}{lll}15 & 968 & -6\end{array}$
$\begin{array}{lll}18 & 965 & -6\end{array}$
$\begin{array}{lll}21 & 965 & -7\end{array}$

$\begin{array}{rrrrrr}\text { PP TT VV } & \text { DD } & \text { PP }$|  TT VV  |  DD  |  |  |
| ---: | :--- | ---: | :--- |
|  DAY  | 2 |  |  DAY  | \& \end{array}

965-12
967-13
970-15.
972-15
975-20
979-23
982-23
982-23
DAY 9
963-10
964-10
965-11
967-12
968-14
969-15
971-16
971-16 DAY 16
977-18
977-18
976-18
974-17
973-17
972-20
973-24
973-22
DAY 23

971-18
971-20
971-20
968-18
966-17
964-17
963-17
DAY 30
$\begin{array}{ll}966 & -7\end{array}$
966-8
967-12
968-12
968-11
968-10

| 977 | -20 |
| :--- | :--- |
| 976 | -20 |

969-12
969-13
969-14
966-10
960-9
955-8
$\begin{array}{ll}955 & -7\end{array}$

| PP TT VV | DD | PP | TT VV | DD |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY | 4 |  | DAY | 5 |  |  |
|  |  |  | 978 | -9 |  |  |
| 979 | -21 |  | 978 | -9 |  |  |
| 981 | -19 |  | 977 | -10 |  |  |
| 983 | -20 |  | 977 | -12 |  |  |
| 985 | -19 |  | 976 | -12 |  |  |
| 984 | -18 |  | 973 | -8 |  |  |
| 982 | -17 |  | 967 | -5 |  |  |
| 980 | -14 |  | 966 | -3 |  |  |

DAY 12

965-16
963-16
963-17
961-17
957-17
954-16
953-17
DAY 19

| 973 | -17 |  |
| :--- | :--- | :--- |
| 972 | -16 |  |
| 969 | -16 |  |
| 968 | -16 |  |
| 970 | -17 |  |
| 974 | -16 |  |
| 977 | -15 |  |
|  | DAY | 25 |
| 983 | -23 |  |
| 985 | -23 |  |
| 988 | -23 |  |
| 990 | -23 |  |
| 993 | -23 |  |
| 994 | -21 |  |
| 995 | -22 |  |
| 995 | -22 |  |

* TEMPERATURE (C) * MEAN $=-14.6$ STD DEV $=5.5$ MAX $=-2.4$ AT 120 GMT ON DAY 20 MIN $=-27.0$ AT 500 GMT ON DAY 24
* THETA (K) * MEAN $=260.69$
* PRESSURE (MB) * MEAN $=972.0$ STD DEV $=9.7$ MAX $=994.9$ AT 1800 GMT ON DAY 25 MIN $=947.2$ AT 510 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $10.1 \%$ PRESSURE: $10.1 \%$ WINDS: $100.0 \%$
 PERCENT: WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-14.0$ STD DEV $=5.7$ MAX $=-1.6$ AT 1720 GMT ON DAY 13 MIN $=-25.2$ AT 1410 GMT ON DAY 11
* THETA (K) * MEAN $=260.58$
* PRESSURE (MB) * MEAN $=981.3$ STD DEV $=12.8$ MAX $=1010.3$ AT 2040 GMT ON DAY 22 MIN $=951.6$ AT 430 GMT ON DAY 1
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT OMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $10.0 \%$ PRESSURE: $10.0 \%$ WINDS: $100.0 \%$





* temperature ( $C$ ) * mean $=-16.1$ Std dev $=6.1$ MAX $=-0.5$ at 640 GMT ON DAY 4 MIN $=-26.4$ At 1600 GMT ON DAY 7
* THETA (K) * MEAN $=259.01$
* PRESSURE (MB) * MEAN $=974.0$ STD DEV $=11.5$ MAX $=994.4$ AT 1440 GMT ON DAY 3 MIN $=946.6$ AT 1230 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $11.3 \%$ PRESSURE: $11.3 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW



[^4]

* TEMPERATURE (C) * MEAN $=-10.1$ STD DEV $=4.4$ MAX $=0.8$ AT 2110 GMT ON DAY 31 MIN $=-18.6$ AT 1720 GMT ON DAY 1
* THETA (K) * MEAN $=265.28$
* PRESSURE (MB) * MEAN $=971.0$ STD DEV $=10.2$ MAX $=985.5$ AT 710 GMT ON DAY 31 MIN $=941.7$ AT 1620 GMT ON DAY 26
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $13.3 \%$ PRESSURE: $13.3 \%$ WINDS: $100.0 \%$

 PERCENT

| 981 | -3 |
| :--- | :--- |
| 982 | -4 |
| 982 | -5 |
| 984 | -5 |
| 985 | -5 |
| 986 | -3 |
| 986 | -3 |
| DAY | 16 |


| 981 | -3 |
| :--- | :--- |
| 981 | -2 |
| 982 | -5 |
| 982 | -5 |
| 983 | -5 |
| 982 | -5 |
| 982 | -4 |
| DAY 23 |  |

00
03
06
09
12
15
18
21
DAY 29
DAY 30

| 03 | 983 | 1 |
| :--- | :--- | :--- |
| 06 | 983 | -2 |
| 09 | 981 | -3 |
| 12 | 981 | -4 |
| 15 | 981 | -5 |
| 18 | 981 | -4 |
| 21 | 981 | -3 |
|  |  | DAY |

PP TT VV DD DAY 1
9771
$976-1$
$974-2$
$971-2$
$\begin{array}{ll}968 & -3\end{array}$
$964-1$
DAY 8
983
day

00
03
06 09 12 15 18 21

| PP TT VV DD | PP TT VV DD |  |
| ---: | ---: | ---: | ---: | ---: |
| DAY 2 |  | DAY 3 |


| PP | TT | VV | DD |
| :--- | ---: | ---: | ---: |
| DAY | 4 |  |  |


| PP TT VV DD |  |
| :--- | :--- |
| DAY | 5 |

PP TT VV DD

$$
\text { DAY } 6
$$ DAY 7

$$
958 \quad-8
$$

DAY 13

| 977 | -2 | 980 | -1 |
| :--- | :--- | :--- | :--- |
| 977 | -3 | 981 | -3 |
| 977 | -4 | 982 | -4 |
| 979 | -4 | 982 | -5 |
| 979 | -4 | 983 | -6 |
| 980 | -3 | 984 | -6 |
| 980 | -2 | 984 | -4 |

DAY 20

9751

| 974 | 0 | 975 | 1 |
| ---: | ---: | ---: | ---: |
| 971 | 0 | 977 | 1 |
| 972 | 0 | 981 | -1 |

9710
972-1
974-1
$975-1$
PP TT VV DD

$$
\begin{array}{ll}
960 & -7
\end{array}
$$

DAY 26

$$
964 \quad-6
$$

$$
965-6
$$

$$
968 \quad-6
$$

$$
966-6
$$

$$
968 \quad-6
$$

$$
\begin{array}{ll}
970 & -7
\end{array}
$$

| 971 | -2 |
| :--- | :--- |
| 971 | -3 |
| 973 | -3 |
| 973 | -4 |
| 974 | -4 |
| 975 | -3 |
| 976 | -2 |
| DAY 19 |  |

* TEMPERATURE (C) * MEAN $=-4.0$ STD DEV $=3.0$ MAX $=1.9$ AT 330 GMT ON DAY 10 MIN $=-14.1$ AT 1650 GMT ON DAY 4
* THETA (K) * MEAN $=271.23$
* PRESSURE (MB) * MEAN $=974.0$ STD DEV $=8.9$ MAX $=986.2$ AT 2110 GMT ON DAY 9 MIN $=952.2$ AT 1750 GMT ON DAY 5
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $42.1 \%$ PRESSURE: $42.1 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW



## STATION : 8980 YOUNG ISLAND

LAT : 66.23S LONG : 162.28E ELEVATION : 30 M
DEC 97

HR PP TT VV DD DAY 1

PP DAY 2 DD

PP TT VV DD DAY 3

DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

DAY 16
DAY 17
DAY 18
DAY 19
DAY 20
DAY 21

DAY 25
DAY 26
DAY 27
DAY 28


* temperature ( $C$ ) * mean $=-1.5$ Std dev $=1.5$ max $=2.9$ at 1820 gmt on day 2 min $=-5.2$ at goo gmt on day 8
* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $100.0 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCERT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

LAT : 73.20S LONG : 127.05W ELEVATION : 230 M


MAR 97


* TEMPERATURE (C) * MEAN $=-5.2$ STD DEV $=2.6$ MAX $=-0.9$ AT 1930 GMT ON DAY 11 MIN $=-11.6$ AT 810 GMT ON DAY 25
* THETA (K) * MEAN $=269.82$
* PRESSURE (MB) * MEAN $=955.3$ STD DEV $=9.3$ MAX $=974.7$ AT 700 GMT ON DAY 26 MIN $=928.9$ AT 1930 GMT ON DAY 28 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $49.6 \%$ WINDS: 100.0 \% WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-1212-1414-16 \quad 16-18 \quad 18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

APR 97

| HR | PP | TT VV | DD | PP |  |  | DD |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY 1 |  |  | DAY | 2 |  |  | DAY 3 |  |
| 00 | 949 | -3 |  | 942 | -6 |  |  | 936 | -8 |  |
| 03 | 949 | -4 |  | 940 | -7 |  |  | 935 | -8 |  |
| 06 | 948 | -4 |  | 939 | -6 |  |  | 934 | -7 |  |
| 09 | 947 | -4 |  | 938 | -7 |  |  | 934 | -6 |  |
| 12 | 946 | -4 |  | 936 | -7 |  |  | 934 | -6 |  |
| 15 | 946 | -4 |  | 938 | -7 |  |  | 933 | -5 |  |
| 18 | 944 | -5 |  | 938 | -8 |  |  | 937 | -4 |  |
| 21 | 943 | -6 |  | 937 | -9 |  |  | 938 | -5 |  |
|  |  | DAY 8 |  |  | DAY | 9 |  |  | DAY 10 |  |
| 00 | 958 | -8 |  | 956 | -11 |  |  | 956 | -7 |  |
| 03 | 959 | -10 |  | 956 | -11 |  |  | 956 | -9 |  |
| 06 | 959 | -12 |  | 956 | -10 |  |  | 953 | -9 |  |
| 09 | 958 | -12 |  | 957 | -11 |  |  | 951 | -8 |  |
| 12 | 957 | -12 |  | 958 | -11 |  |  | 950 | -8 |  |
| 15 | 956 | -13 |  | 958 | -9 |  |  | 950 | -8 |  |
| 18 | 956 | -11 |  | 958 | -9 |  |  | 949 | -8 |  |
| 21 | 955 | -11 |  | 957 | -7 |  |  | 948 | -8 |  |
|  |  | DAY 15 |  |  | DAY | 16 |  |  | DAY 17 |  |
| 00 | 949 | -15 |  | 952 | -17 |  |  | 959 | -23 |  |
| 03 | 950 | -15 |  | 951 | -17 |  |  | 958 | -21 |  |
| 06 | 951 | -16 |  | 951 | -16 |  |  | 959 | -20 |  |
| 09 | 953 | -16 |  | 953 | -15 |  |  | 959 | -21 |  |
| 12 | 954 | -16 |  | 954 | -15 |  |  | 960 | -21 |  |
| 15 | 954 | -16 |  | 955 | -18 |  |  | 961 | -21 |  |
| 18 | 954 | -16 |  | 957 | -21 |  |  | 963 | -22 |  |
| 21 | 953 | -16 |  | 958 | -22 |  |  | 964 | -23 |  |
|  |  | DAY 22 |  |  | DAY | 23 |  |  | DAY 24 |  |
| 00 | 967 | -17 |  | 972 | -17 |  |  | 961 | -18 |  |
| 03 | 967 | -16 |  | 973 | -19 |  |  | 958 | -19 |  |
| 06 | 968 | -16 |  | 973 | -20 |  |  | 957 | -18 |  |
| 09 | 968 | -17 |  | 973 | -20 |  |  | 958 | -17 |  |
| 12 | 969 | -18 |  | 972 | -20 |  |  | 963 | -15 |  |
| 15 | 970 | -18 |  | 971 | -19 |  |  | 968 | -15 |  |
| 18 | 970 | -18 |  | 969 | -19 |  |  | 971 | -17 |  |
| 21 | 971 | -17 |  | 965 | -19 |  |  |  | -17 |  |




DAY 30
953-18
945-11
$936-8$
$928-6$
929-11
940-21
947-23
950-23

* TEMPERATURE (C) * MEAN $=-12.2$ STD DEV $=6.1$ MAX $=-0.5$ AT 2320 GMT ON DAY 26 MIN $=-23.5$ AT 1900 GMT ON DAY 30
* THETA (K) * MEAN $=264.31$
* PRESSURE (MB) * MEAN $=955.1$ STD DEV $=12.0$ MAX $=979.6$ AT 1030 GMT ON DAY 25 MIN $=926.7$ AT 610 GMT ON DAY 4
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $1.2 \%$ WINDS: 100.0 \%


WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV DD

|  |  | DAY | 1 |
| :--- | :--- | :--- | :--- |
| 00 | 955 | -23 |  |
| 03 | 958 | -21 |  |
| 06 | 960 | -18 |  |
| 09 | 963 | -15 |  |
| 12 | 966 | -13 |  |
| 15 | 967 | -13 |  |
| 18 | 966 | -13 |  |
| 21 | 964 | -12 |  |

DAY 8
00 946-23
03 945-22
06 945-22
$09 \quad 944-21$
12 942-22
15 941-22
18 940-23
21 939-24 DAY 15
00 960-13
03 957-12
$06 \quad 954-13$
09 954-12
12 959-11
15 964-11
18 966-12
$21 \quad 964-13$
00 939-14
03 934-15
06 929-15
09 923-13
$\begin{array}{lll}12 & 918 & -9\end{array}$
$\begin{array}{lll}15 & 914 & -5\end{array}$
18 922-12
$21 \quad 933-13$
00 933-15
$\begin{array}{llll}03 & 936 & -17\end{array}$
06 938-18
$\begin{array}{lll}09 & 940 & -16\end{array}$
12 943-17
15 946-17
18 948-19
21 951-19


PP TT VV DD PP TT VV DD
962-9
$\begin{array}{ll}958 & -7\end{array}$
959-10
962-17
963-15
958-14
DAY 9
937-28
936-30

936-30
-936-31
$936-30$
$-937-30$

$$
\text { DAY } 16
$$

661-11

959-12
961-10
963-11
965-11
966-11
966-10
968-10

937-10
$\begin{array}{ll}941 & -7\end{array}$
$\begin{array}{ll}942 & -7\end{array}$
$\begin{array}{ll}943 & -7\end{array}$
950-13
53-13
DAY 30
955-16
957-16
959-17
961-17
963-16

966-15



* TEMPERATURE (C) * MEAN $=-16.9$ STD DEV $=8.5 \mathrm{MAX}=-1.2$ AT 30 GMT ON DAY 25 MIN $=-36.4$ AT 2220 GMT ON DAY 10
* THETA (K) * MEAN $=260.17$
* PRESSURE (MB) * MEAN $=949.0$ STD DEV $=10.8$ MAX $=971.5$ AT 110 GMT ON DAY 17 MIN $=913.8$ AT 1510 GMT ON DAY 22
$*$ WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $100.0 \%$
 $\begin{array}{llllllllllllllllllllllll}\text { PERCENT : } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-12.7$ StD dev $=4.7$ max $=-2.1$ at 1430 GMT ON DAY 8 MIN $=-23.2$ AT 110 GMt ON DAY 3
* THETA (K) * MEAN $=263.40$
* PRESSURE (MB) * MEAN $=961.7$ STD DEV $=10.5$ MAX $=983.2$ AT 1030 GMT ON DAY 15 MIN $=931.4$ AT 1410 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $100.0 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W UNW NW NNW
PERCENT

|  |  | DAY | 1 |
| :---: | :---: | :---: | :---: |
| 00 | 959 | -12 |  |
| 03 | 956 | -11 |  |
| 06 | 954 | -10 |  |
| 09 | 960 | -11 |  |
| 12 | 961 | -10 |  |
| 15 | 963 | -10 |  |
| 18 | 964 | -10 |  |
| 21 | 965 | -10 |  |
|  |  | DAY | 8 |
| 00 |  | -2 |  |
| 03 | 960 | -5 |  |
| 06 | 962 | -6 |  |
| 09 | 969 | -11 |  |
| 12 | 973 | -16 |  |
| 15 | 975 | -19 |  |
| 18 | 975 | -17 |  |
| 21 | 974 | -15 |  |

0 958-22
03 957-21
06 957-21
09 957-20
12 955-19
$\begin{array}{ll}5 & 953-18\end{array}$
18 952-19
21 952-19
DAY 22
00 965-24
03 967-24
06 968-26
09 968-28
$12 \quad 969-29$
15 968-28
18 966-25
21 964-25
DAY 29
00 965-18
03 965-17
06 962-18
09 959-17
12 954-16
15 950-18
18 944-16
21 940-16

PP TT WV DD


PP TT VV DD
PP TT VV DD

PP TT WV DD DAY 7
955-1
953-13
949-13
$\begin{array}{ll}948 & -5\end{array}$
$\begin{array}{ll}950 & -2 \\ 952 & -2\end{array}$
$\begin{array}{ll}951 & -2 \\ 953 & -2\end{array}$
$\begin{array}{ll}956 & -1 \\ & \text { DAY } 13\end{array}$
964-15
967-14
968-14
965-12
959-12
$950-13$
$943-13$
939-13 956-23
DAY 20
DAY 21
940-25
938-24
941-22
945-21
950-20
955-20
959-22
961-22
DAY 28
961-27
963-23
968-22
969-19
971-20
968-19
966-18
965-18

* temperature ( $C$ ) * mean $=-16.7$ Std dev $=6.4$ max $=-0.9$ at 450 GMT ON day 7 min $=-29.6$ at 1300 GMt ON DAY 22
* theta (K) * MEAN $=259.25$
* PRESSURE (MB) * MEAN $=956.3$ STD DEV $=10.7$ MAX $=976.4$ AT 930 GMT ON DAY 24 MIN $=925.3$ AT 400 GMT ON DAY 11
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM $\quad 0$. CONSTANCY $=0.00 \mathrm{mAX}=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $3.2 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W UNW NW NNW
$\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | Tt VV | DD |
| :---: | :---: | :---: | :---: |
|  |  | DAY 1 |  |
| 00 | 969 | -13 |  |
| 03 | 970 | -12 |  |
| 06 | 970 | -11 |  |
| 09 | 968 | -9 |  |
| 12 | 965 | -14 |  |
| 15 | 962 | -15 |  |
| 18 | 962 | -17 |  |
| 21 | 962 | -19 |  |
|  |  | DAY 8 |  |
| 00 | 910 | -38 |  |
| 03 | 908 | -37 |  |
| 06 | 913 | -41 |  |
| 09 | 919 | -40 |  |
| 12 | 925 | -41 |  |
| 15 | 929 | -41 |  |
| 18 | 933 | -42 |  |
| 21 | 937 | -38 |  |
|  |  | DAY 15 |  |
| 00 | 959 | -20 |  |
| 03 | 949 | -18 |  |
| 06 | 946 | -19 |  |
| 09 | 945 | -20 |  |
| 12 | 946 | -20 |  |
| 15 | 947 | -20 |  |
| 18 | 948 | -20 |  |
| 21 | 950 | -19 |  |

## DAY 22

00 964-22
03 965.-24
06 963-26
$\begin{array}{lll}09 & 963 & -24\end{array}$
$\begin{array}{ll}12 & 962-27\end{array}$
$\begin{array}{ll}15 & 963-28\end{array}$
$\begin{array}{lll}18 & 964-27\end{array}$
21 965-26
DAY 29
00 956-26
$\begin{array}{llll}03 & 954 & -27\end{array}$
06 952-26
09 950-24
$12 \quad 951-23$
$\begin{array}{lll}15 & 952-21\end{array}$
18 953-19
21 954-21



## PP TT WV DD

 DAY 7 935-38935-39
935-40
934-40
932-40
928-42
924-42
918-42
DAY 14
953-22
957-23
960-26
963-26
967-27
969-27

964-18
DAY 21
951-20
953-19
955-20
957-20
959-21
961-21
963-21
964-21
DAY 28
948-28
949-27
949-27
951-28
952-28
954-28
955-26
956-26

* temperature ( $C$ ) * mean $=-23.7$ Std dev $=7.4$ max $=-8.8$ at 920 GMT ON dAY 1 MIN $=-43.2$ at 1950 GMT ON dAY 7
* theta (K) * MEAN $=253.28$
* PRESSURE (MB) * MEAN $=948.0$ STD DEV $=13.2$ MAX $=974.3$ at 2350 GMT ON DAY 2 MIN $=907.9$ at 140 GMT ON DAY 8
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16 -18 18 18-20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 6$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0
\end{array}
$$



MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-13.8$ STD DEV $=5.2$ MAX $=-1.0$ AT 2220 GMT ON DAY 23 MIN $=-23.2$ AT 500 GMT ON DAY 15
* THETA (K) * MEAN $=263.33$
* PRESSURE (MB) * MEAN $=947.9$ STD DEV $=10.3$ MAX $=974.7$ AT 620 GMT ON DAY 12 MIN $=915.9$ AT 2220 GMT ON DAY 23
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \% \quad$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 14 -16 16 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT



| PP | TT | WV | DD |
| :--- | :--- | :--- | :--- |
|  | DAY | 6 |  |
| 944 | -10 |  |  |
| 945 | -10 |  |  |
| 945 | -7 |  |  |
| 943 | -4 |  |  |
| 944 | -5 |  |  |
| 947 | -5 |  |  |
| 946 | -4 |  |  |
| 948 | -5 |  |  |

DAY 13
959-10
961-10
963-10
964-10
964-10
964-10
$\begin{array}{lll}963 & -10 \\ 961 & -10\end{array}$
DAY 20
956-15
957-15
958-15
958-15
958-14
957-13
956-13
956-13

| DAY 27 |  |
| :--- | :--- |
| -6 |  |
|  | -6 |
|  | -5 |
| 946 | -5 |
| 942 | -6 |
| 945 | -8 |
| 948 | -8 |
| 949 | -8 |

PP TT VV DD
DAY 7

```
950-5
```

$951-5$
$953-5$
$957-6$
960-7
$962-7$
967 -6
DAY 14
958-10
956-11
954-12
954-14
954-14
954-14
954-13
954-14
DAY 21
956-11
956-12
957-13
958-12
957-14
957-12
956-10
$958-8$
DAY 28
$950-7$
$944-8$
$940-7$
$939-5$
941 -5
943-4
$943-3$
$-3$

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-8.1$ STD DEV $=4.0$ MAX $=0.8$ AT 2150 GMT ON DAY 23 MIN $=-15.6$ AT 1250 GMT ON DAY 19
* THETA (K) * MEAN $=267.97$
* PRESSURE (MB) * MEAN $=952.0$ STD DEV $=9.4$ MAX $=973.4$ AT 2300 GMT ON DAY 10 MIN $=927.2$ AT 2300 GMT ON DAY 4
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $14.5 \%$ WINDS: $100.0 \%$

 hind direction: n nNe ne ene e ese se sse s ssw sh wsw w unw nh nnw
$\begin{array}{llllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

|  | DAY | 8 |
| :--- | :--- | :--- |
| 00 | -1 |  |
| 03 | -2 |  |
| 06 | -2 |  |
| 09 | -2 |  |
| 12 | -3 |  |
| 15 | -5 |  |
| 18 | -5 |  |
| 21 | -6 |  |

DAY 15
-2
-2
-2
-3
-4
-3
-3
-3
DAY 22
-2
-1
-3
-4
-2
-2
0
1

| DAY 16 | DAY 17 |
| :---: | :---: |
| -4 | -3 |
| -3 | -3 |
| -4 | -4 |
| -4 | -4 |
| -3 | -3 |
| -4 | -3 |
| -3 | -2 |
| -3 | -2 |
| DAY 23 | DAY 24 |
| 1 | -1 |
| -1 | -1 |
| -3 | -3 |
| -3 | -3 |
| -2 | -5 |
| -2 | -5 |
| -3 | -5 |
| -1 | -4 |


954-14
953-14
953-15
954-15
955-16
955-15
956-13
957-12

| DAY | 9 |
| :---: | :---: |
| -6 |  |
| 954 | -6 |
| 954 | -6 |
| 953 | -6 |
| 952 | -6 |
| 951 | -6 |
| 949 | -6 |
| 948 | -6 |

$00-2 \quad-4$

```
            PP TT VV DD 
```

PP TT VV DD
DAY 5

PP TT VV DD DAY 6 $\begin{array}{ll}941 & -6 \\ 944 & -8\end{array}$

| 949 | -8 | 941 | -6 |
| :--- | :--- | :--- | :--- |
| 949 | -7 | 944 | -8 |
| 949 | -7 | 943 | -8 |
| 949 | -7 | 946 | -8 |

$\begin{array}{llll}\text { PP } & T T & V V & D D \\ \text { DAY } & 7\end{array}$
$940-5$
$938-5$
937-4
$938-3$
$938-2$
938-2
$949-9$
949
DAY 11
$955-6$
955

| DAY 12 |  |  |
| :--- | :--- | :---: |
| 961 | -7 |  |
| 962 | -7 |  |
| 962 | -7 |  |
| 963 | -6 |  |
| 962 | -6 |  |
| 961 | -6 |  |
| 959 | -5 |  |
| 958 | -4 |  |


| DAY 13 |  |  |
| :--- | :--- | :---: |
| 960 | -4 |  |
| 956 | -4 |  |
| 955 | -4 |  |
| 954 | -4 |  |
| 953 | -4 |  |
| 951 | -4 |  |
| 950 | -5 |  |
| 947 | -5 |  |


| DAY 14 |  |  |
| :--- | :--- | :---: |
| 944 | -4 |  |
| 944 | -4 |  |
| 940 | -4 |  |
| 936 | -4 |  |
| 935 | -4 |  |
| 937 | -3 |  |
| 941 | -3 |  |
|  | -2 |  |


| DAY 19 | DAY 20 | DAY 21 |
| :---: | :---: | :---: |
| -2 | -4 | -2 |
| -1 | -3 | -2 |
| -2 | -3 | -3 |
| -2 | -4 | -3 |
| -3 | -3 | -3 |
| -3 | -3 | -3 |
| -4 | -3 | -3 |
| -4 | -3 | -2 |
| DAY 26 | DAY 27 | DAY 28 |
| -4 | 0 | -3 |
| -4 | -3 | -3 |
| -4 | -5 | -2 |
| -6 | -7 | -5 |
| -4 | -4 | -5 |
| -2 | -1 | -3 |
| -3 |  | -3 |
| -3 | -3 | -3 |

* temperature ( $C$ ) * mean $=-4.9$ Std dev $=3.3$ max $=2.9$ at 2200 GMt on day 22 min $=-17.2$ at 1000 GMt on day 3
* theta (K) * mean $=269.51$
* PRESSURE (MB) * MEAN $=951.0$ STD DEV $=6.8 \mathrm{MAX}=963.0$ AT 730 GMT ON DAY 12 MIN $=934.6$ AT 1320 GMT ON DAY 14
* $\operatorname{WINDS}(\mathrm{M} / \mathrm{S}) *$ MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: 0.4 \% PRESSURE: 59.6 \% WINDS: 100.0 \%

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| PERCENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

DEC 97


| PP TT VV | DD | PP | TT VV | DD | PP | TT. VV | DD | PP | TT VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY 4 |  |  | DAY 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 0 |  |  | 1 |  |  | -1 |  |  | -1 |  |
| 0 |  |  | 0 |  |  | -1 |  |  | -1 |  |
| -1 |  |  | 0 |  |  | -1 |  |  | -1 |  |
| -2 |  |  | 1 |  |  | -1 |  |  | -2 |  |
| -1 |  |  | -1 |  |  | -1 |  |  | -1 |  |
| 0 |  |  | 0 | - |  | -2 |  |  | -1 |  |
| 2 |  |  | -1 |  |  | -1 |  |  | 0 |  |
| 2 |  |  | 0 |  |  | -1 |  |  | -1 |  |
| DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| -1 |  |  | 0 |  |  | -2 |  |  | -1 |  |
| -1 |  |  | -1 |  |  | -2 |  |  | -1 |  |
| -2 |  |  | -2 |  |  | -3 |  |  | -2 |  |
| -2 |  |  | -2 |  |  | -3 |  |  | -3 |  |
| -2 |  |  | -2 |  |  | -1 |  |  | -3 |  |
| -2 |  |  | -1 |  |  | -2 |  |  | -1 |  |
| -1 |  |  | -2 |  |  | -1 |  |  | -1 |  |
| -1 |  |  | -1 |  |  | -1 |  |  | 2 |  |
| DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| -2 |  |  | -1 |  |  | -1 |  |  | 0 |  |
| -3 |  |  | -1 |  |  | -1 |  |  | 0 |  |
| -2 |  |  | -2 |  |  | -2 |  |  | 1 |  |
| -1 |  |  | -3 |  |  | -2 |  |  | -1 |  |
| -2 |  |  | -3 |  |  | -2 |  |  | -1 |  |
| -2 |  |  | -2 |  |  | 0 |  |  | 1 |  |
| 2 |  |  | -1 |  |  | 1 |  |  | 1 |  |
| -1 |  |  | -2 |  |  | 0 |  |  | 0 |  |
| DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| -2 |  |  | -2 |  |  | -3 |  |  | -2 |  |
| -2 |  |  | -2 |  |  | -2 |  |  | -3 |  |
| -2 |  |  | -3 |  |  | -2 |  |  | -3 |  |
| -2 |  |  | -1 |  |  | -3 |  |  | -3 |  |
| -2 |  |  | -1 |  |  | -2 |  |  | -3 |  |
| -1 |  |  | -1 |  |  | -2 |  |  | -3 |  |
| -2 |  |  | -1 |  |  | -2 |  |  | -3 |  |
| -2 |  |  | -1 |  |  | -2 |  |  | -3 |  |

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-1.4$ STD DEV $=1.2$ MAX $=2.5$ AT 2220 GMT ON DAY 17 MIN $=-5.2$ AT 920 GMT ON DAY 1
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad O$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $100.0 \%$ WINDS: $100.0 \%$

 $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW }\end{array}$


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-35.0$ STD DEV $=4.5$ MAX $=-21.9$ AT 1330 GMT ON DAY 13 MIN $=-49.0$ AT 2300 GMT ON DAY 31
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad O$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY O
* $\operatorname{WINDS}(M / S) *$ MEAN $=2.1 \mathrm{STD} D E V=1.5$ RESULTANT $=0.7$ FROM 82. CONSTANCY $=0.32$ MAX $=6.6$ FROM 161 . AT 540 GMT DAY 5 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $12.9 \%$ PRESSURE: $100.0 \%$ WINDS: $12.1 \%$ WIND SPEED (M/S): 0-2 2-4 $4-6 \quad 6-8 \quad 8-10 \quad 10-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT
$\begin{array}{llllllllllllllll}3 & 9 & 14 & 14 & 11 & 4 & 6 & 8 & 2 & 4 & 4 & 6 & 3 & 3 & 4 & 3\end{array}$

| HR | PP | TT | VV DD | PP |  | VV DD | PP | TT |  | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD | PP TT | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  | DAY | 2 |  | DAY | 3 |  |  | DAY | 4 |  |  | day | 5 |  |  | DAY | 6 |  | DAY | 7 |  |
| 00 |  | -49 | 2358 |  | -46 | 2300 |  | -44 | 1 | 260 |  | -39 | 3 | 317 |  |  |  |  |  |  |  |  | -48 | 2 | 165 |
| 03 |  | -45 | 2345 |  | -44 | 2279 |  |  |  |  |  | -36 | 6 | 289 |  |  |  |  |  | -42 | 2 | 119 | -46 | 2 | 161 |
| 06 |  |  |  |  | -39 | 2291 |  | -38 | 0 | 0 |  |  |  |  |  | -38 | 2 | 171 |  | -36 | 0 | 0 | -40 | 3 | 158 |
| 09 |  |  |  |  | -36 | 4292 |  |  |  |  |  | -30 | 7 | 229 |  | -35 | 2 | 163 |  | -34 | 0 | 0 |  |  |  |
| 12 |  |  |  |  |  |  |  | -31 | 2 | 299 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  | -34 | 4336 |  |  |  |  | -35 | 1 | 295 |  | -31 | 1 | 212 |  | -35 | 1 | 149 |  | -36 | 1 | 137 | -37 | 2 | 151 |
| 18 |  |  |  |  | -40 | 1267 |  | -37 | 1 | 275 |  | -36 | 3 | 198 |  | -41 | 2 | 123 |  | -41 | 2 | 178 | -46 | 2 | 177 |
| 21 |  | -45 | 3312 |  | -42 | 2223 |  | -39 | 1 | 299 |  |  |  |  |  |  |  |  |  | -47 | 2 | 146 | -47 | 2 | 147 |
|  |  | DAY | 8 |  | DAY | $9$ |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  | DAY | 14 |  |
| 00 |  | -50 | 2156 |  | -48 | 184 |  | -45 | 3 | 163 |  | -51 | 2 | 97 |  | -50 | 3 | 99 |  | -50 | 3 | 73 | -50 | 0 | 0 |
| 03 |  | -45 | 2133 |  | -46 | 1105 |  | -46 | 3 | 165 |  | -47 | 2 | 91 |  | -47 | 2 | 77 |  | -46 | 3 | 73 | -48 | 2 | 123 |
| 06 |  | -40 | 00 |  | -40 | 161 |  | -42 | 3 | 153 |  | -42 | 2 | 94 |  | -42 | 3 | 90 |  | -42 | 3 | 78 | -42 | 3 | 106 |
| 09 |  | -38 | 5108 |  | -36 | 00 |  | -39 | 3 | 143 |  | -39 | 2 |  |  | -38 | 4 | 85 |  | -39 | 3 | 75 | -38 | 2 | 108 |
| 12 |  |  |  |  | -34 | 175 |  | -36 | 3 | 144 |  | -36 | 1 | 102 |  | -36 | 4 | 82 |  |  |  |  | -36 | 2 | 133 |
| 15 |  | -37 | 3102 |  | -35 | 182 |  |  |  |  |  | -38 | 1 | 123 |  |  |  |  |  | -40 | 3 | 90 | -41 | 2 | 144 |
| 18 |  | -44 | 2101 |  | -41 | 199 |  | -46 | 2 | 101 |  | -44 | 2 | 143 |  | -43 | 4 | 92 |  | -46 | 3 | 90 | -45 | 2 | 129 |
| 21 |  | -45 | 287 |  |  | 2140 |  | -50 | 2 | 104 |  | -48 | 3 | 126 |  | -45 | 4 | 75 |  | -50 | 1 | 87 | -51 | 3 | 115 |
|  |  | DAY | 15 |  | DAY | 16 |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  | DAY | 21 |  |
| 00 |  | -50 | 1118 |  | -54 | 3126 |  | -50 | 2 | 81 |  |  |  |  |  | -53 | 3 | 247 |  | -50 | 0 | 0 | -52 | 2 | 268 |
| 03 |  | -47 | 1132 |  |  |  |  |  |  |  |  |  | . |  |  |  |  |  |  | -46 | 1 | 229 |  |  |  |
| 06 |  | -44 | 2135 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -45 | 1 | 219 |  |  |  |
| 09 |  | -40 | 00 |  |  |  |  |  |  |  |  |  |  |  |  | -44 | 2 | 253 |  | -39 | 0 | 0 |  |  |  |
| 12 |  | -38 | 3125 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  | -40 | 1 | 195 |  |  |  |  |  | -44 | 2 | 250 |  | -41 | 0 | 0 |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -48 | 3 | 234 |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -50 | 2 | 216 |  |  |  |  |  |  |  |
|  |  | DAY | 22 |  | DAY | 23 |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  | DAY | 28 |  |
| 00 |  | -51 | 2268 |  | -58 | 3104 |  | -60 | 4 | 132 |  | -58 | 3 | 18 |  | -61 | 4 | 230 |  | -52 | 3 | 262 |  |  |  |
| 03 |  |  |  |  | -56 | 399 |  | -59 | 4 | 102 |  | -55 | 3 | 352 |  | -58 | 2 | 244 |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  | -55 | 3 | 73 |  | -50 | 1 | 341 |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  | -50 | 1 | 71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  | -53 | 3 | 59 |  | -56 | 4 | 219 |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  | -56 | 395 |  | -56 | 6132 |  | -56 | 3 | 35 |  | -59 | 3 | 220 |  |  |  |  |  |  |  |  |  |  |  |


|  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllll}\text { PERCENT } & 2 & 1 & 1 & 9 & 18 & 13 & 15 & 9 & 3 & 3 & 8 & 3 & 6 & 6 & 2 & 3\end{array}$

| PP $T T_{\text {VV }}$ | DD | PP | $T T$ | VV |
| ---: | ---: | ---: | ---: | ---: |
| DAY | 1 |  |  |  |

$\begin{array}{lll}-40 & 0 & 0\end{array}$
$\begin{array}{lll}-43 & 1 & 73\end{array}$

| -54 | 3 | 63 |
| :--- | :--- | :--- |
| DAY | 8 |  |
| -58 | 3 | 81 |
| -57 | 3 | 91 |
| -55 | 1 | 73 |
| -52 | 2 | 21 |
| -50 | 2 | 358 |
| -54 | 2 | 360 |
| -55 | 3 | 347 |
| -57 | 2 | 352 |
| DAY | 15 |  |
| -51 | 2 | 85 |
| -52 | 3 | 78 |
| -50 | 3 | 75 |
| -47 | 0 | 0 |

$$
\begin{array}{lll}
-56 & 3 & 9
\end{array}
$$

$$
\text { DAY } 22
$$

$$
\begin{array}{lll}
-53 & 3 & 63
\end{array}
$$

$$
\begin{array}{lll}
-59 & 2 & 39
\end{array}
$$

$$
\begin{array}{lll}
-55 & 3 & 26
\end{array}
$$

$$
\begin{array}{lll}
-53 & 2 & 2
\end{array}
$$

$$
-52 \quad 2360
$$

$$
-56 \quad 2350
$$

$$
-573350
$$

$$
-60 \quad 2350
$$

$$
\text { DAY } 29
$$

$$
\begin{array}{lll}
-67 & 2 & 67
\end{array}
$$

$$
\begin{array}{lll}
-68 & 3 & 57
\end{array}
$$

$$
\begin{array}{lll}
-64 & 3 & 47
\end{array}
$$

$$
\begin{array}{lll}
-62 & 3 & 42
\end{array}
$$

$$
\begin{array}{lll}
-60 & 3 & 59
\end{array}
$$

$$
\begin{array}{lll}
-66 & 3 & 61
\end{array}
$$

$$
\begin{array}{lll}
-65 & 3 & 66
\end{array}
$$

$$
\begin{array}{lll}
-67 & 3 & 64
\end{array}
$$

PP TT VV DD DAY 3
$\begin{array}{lll}-54 & 3 & 60\end{array}$
$\begin{array}{lll}-51 & 3 & 63\end{array}$

| -54 | 3 | 57 | -55 | 2 | 47 |  |  | -55 |  | 112 | -59 | 3 | 59 | -52 | 3 | 85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -55 | 2 | 57 | -59 | 2 | 53 | -56 | 3156 | -59 |  | 102 | -59 | 3 | 47 | -57 | 3 | 97 |
| DAY | 9 |  | DAY | 10 |  | DAY | 11 | DAY | 12 |  | DAY | 13 |  | DAY | 14 |  |
| -55 | 2 | 333 | -59 | 3 | 227 | -52 | 3223 | -57 |  | 215 | -60 | 3 | 174 | -57 | 3 | 95 |
| -56 | 2 | 329 | -61 | 2 | 234 | -51 | 3220 | -58 |  | 209 | -60 | 4 | 172 | -56 | 2 | 84 |
| -53 | 2 | 337 | -57 | 2 | 232 | -47 | 2202 | -55 |  | 187 | -55 | 3 | 174 | -52 | 2 | 95 |
|  |  |  | -53 |  | 230 |  |  | -51 |  | 195 | -53 | 2 | 154 |  |  |  |
| -51 | 2 | 317 | -49 |  | 225 |  |  | -49 |  | 180 | -51 | 3 | 146 |  |  |  |
| -55 | 2 | 284 | -54 | 3 | 236 |  |  | -57 |  | 210 | -53 | 3 | 137 |  |  |  |
| -58 | 2 | 271 | -52 | 3 | 216 |  |  | -56 |  | 191 | -57 | 3 | 120 | -51 | 3 | 84 |
| -58 | 2 | 251 | -50 | 3 | 215 | -55 | 3195 | -58 |  | 192 | -56 | 2 | 108 | -54 | 3 | 91 |
| DAY | 16 |  | DAY | 17 |  | DAY | 18 | DAY | 19 |  | DAY | 20 |  | DAY | 21 |  |
| -54 | 2 | 92 | -60 | 3 | 87 | -62 | 367 | -62 | 2 | 99 | -62 | 3 | 54 | -51 | 2 | 90 |
| -53 | 2 | 87 | -61 | 3 | 78 | -61 | 360 | -58 |  | 101 | -62 | 3 | 47 | -56 | 3 | 98 |
| -52 | 3 | 85 | -59 | 3 | 63 | -59 | 366 | -57 |  | 106 | -59 | 2 | 47 | -54 | 2 | 94 |
| -54 | 2 | 88 | -57 | 3 | 63 | -57 | 359 | -57 | 3 | 77 | -56 | 3 | 40 | -53 | 2 | 94 |
| -51 | 3 | 70 |  |  |  | -55 | 364 | -57 | 4 | 70 | -53 | 3 | 37 |  |  |  |
| -55 | 3 | 77 | -58 | 2 | 56 | -57 | 288 | -60 | 3 | 66 | -54 | 2 | 52 | -54 | 2 | 87 |
| -56 | 3 | 75 | -61 | 3 | 61 | -58 | 491 | -59 | 4 | 59 | -52 | 3 | 60 | -52 | 3 | 77 |
| -61 | 3 | 84 | -62 | 3 | 70 | -60 | 494 | -61 | 3. | 56 | -53 | 2 | 82 | -52 | 2 | 64 |
| DAY | 23 |  | DAY | 24 |  | DAY | 25 | DAY | 26 |  | DAY | 27 |  | DAY | 28 |  |
| -60 |  | 347 | -64 |  | 281 | -55 | 112 | -63 |  | 330 | -65 | 3 | 271 | -61 | 3 | 112 |
| -60 | 3 | 354 | -58 | 2 | 296 | -58 | 125 | -64 |  | 306 | -61 | 3 | 253 | -62 | 3 | 102 |
| -59 | 3 | 316 | -55 |  | 271 | -56 | 226 | -63 |  | 289 |  |  |  | -61 | 3 | 92 |
|  |  |  | -59 | 0 | 0 | -58 | 00 | -60 |  | 275 | -60 | 2 | 253 | -61 | 3 | 82 |
| -58 |  | 326 | -53 |  | 265 | -57 | 211 | -59 |  | 278 | -56 | 3 | 244 |  |  |  |
| -62 |  | 305 | -56 |  | 254 | -57 | $3 \quad 25$ | -62 |  | 265 | -59 | 3 | 230 | -65 | 3 | 85 |
| -65 |  | 320 | -58 | 0 | 0 | -61 | 211 |  |  |  | -61 | 2 | 212 |  |  |  |
| -62 |  | 285 | -58 | 0 | 0 | -62 | 2360 | -59 |  | 271 | -60 | 3 | 150 | -67 | 3 | 78 |

$\begin{array}{llll}\text { PP } & \text { TT } & \text { VV } & \text { DD } \\ \text { DAY } & 4 & \\ -54 & 2 & 357 \\ -55 & 1 & 329\end{array}$
PP TT VV DD DAY 5 $\begin{array}{lll}-59 & 3 & 149\end{array}$ $\begin{array}{ll}-55 & 3 \\ 125\end{array}$ $-524119$ $-48 \quad 4108$

PP TT VV DD DAY 6

PP TT VV DD DAY 7
$\begin{array}{lll}-57 & 58\end{array}$
$\begin{array}{lll}-60 & 3 & 46\end{array}$
$\begin{array}{lll}-56 & 3 & 37\end{array}$
$\begin{array}{lll}-52 & 3 & 45\end{array}$

DAY 31
$\begin{array}{lll}-61 & 3 & 102\end{array}$
$\begin{array}{lll}-62 & 3 & 78\end{array}$
$\begin{array}{lll}-61 & 2 & 64\end{array}$
$\begin{array}{lll}-60 & 2 & 30\end{array}$
$\begin{array}{lll}-56 & 3 & 43\end{array}$
$\begin{array}{lll}-56 & 0 & 0\end{array}$
$-6000$
$-58 \quad 0 \quad 0$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-57.0$ Std dev $=4.5$ MAX $=-40.2$ at 850 GMT ON day 1 min $=-68.5$ at 2000 GMt on day 28
* theta (K) * MEAN $=0.00$

* WINDS (M/S) * MEAN $=2.4$ STD DEV $=0.8$ RESULTANT $=1.1$ FROM 75 . CONSTANCY $=0.44$ MAX $=5.8$ FROM 210. AT 1450 GMT DAY 12 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $17.7 \%$ PRESSURE: $100.0 \%$ WINDS: $17.7 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 7 & 4 & 10 & 22 & 19 & 7 & 2 & 2 & 3 & 4 & 6 & 3 & 5 & 2 & 3 & 4\end{array}$

* TEMPERATURE (C) * MEAN $=-62.8$ STD DEV $=6.3$ MAX $=-44.1$ AT 1450 GMT ON DAY 27 MIN $=-76.0$ AT 2110 GMT ON DAY 17
* theta (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=2.6$ STD DEV $=1.3$ RESULTANT $=0.4$ FROM 148 . CONSTANCY $=0.14 \mathrm{MAX}=9.8$ FROM 43. AT 1600 GMT DAY 27
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $8.3 \%$ PRESSURE: $100.0 \%$ WINDS: $8.3 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
PERCENT:
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
PERCENT

| HR | PP TT |  | DD |  |  | DD |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 1 |  | DAY | 2 |  | DAY | 3 |  |
| 00 | -66 | 3 | 82 | -62 | 3 | 331 | -65 | 2 | 292 |
| 03 | -65 | 2 | 42 | -65 | 2 | 317 | -66 | 2 | 289 |
| 06 | -63 | 3 | 12 | -64 | 3 | 322 | -68 | 2 | 282 |
| 09 | -63 | 2 | 357 | -62 | 2 | 316 | -67 | 3 | 271 |
| 12 |  |  |  |  |  |  | -66 | 3 | 261 |
| 15 | -63 | 3 | 329 |  |  |  |  |  |  |
| 18 | -64 | 2 | 315 |  |  |  |  |  |  |
| 21 | -65 | 2 | 334 | -63 | 1 | 310 | -65 | 3 | 250 |
|  | DAY | 8 |  | DAY | 9 |  | DAY | 10 |  |
| 00 | -73 | 3 | 104 | -74 | 3 | 33 | -74 | 2 | 275 |
| 03 | -71 | 2 | 95 | -73 | 4 | 2 | -74 | 3 | 250 |
| 06 | -71 | 2 | 84 | -73 | 2 | 360 | -76 | 2 | 247 |
| 09 | -72 | 2 | 87 | -70 | 2 | 347 | -75 | 4 | 234 |
| 12 | -74 | 3 | 81 |  |  |  | -76 | 3 | 241 |
| 15 | -75 | 3 | 81 | -72 | 2 | 293 |  |  |  |
| 18 | -76 | 2 | 78 | -75 | 2 | 288 | -73 | 3 | 237 |
| 21 |  |  |  |  |  |  | -70 | 3 | 226 |
|  | DAY | 15 |  | DAY | 16 |  | DAY | 17 |  |
| 00 | -75 | 4 | 120 | -71 | 2 | 78 | -55 | 2 | 52 |
| 03 | -75 | 4 | 113 | -72 | 2 | 91 | -56 | 0 | 0 |
| 06 | -75 | 3 | 104 | -71 | 2 | 57 | -58 | 0 | 0 |
| 09 | -75 | 2 | 98 | -69 | 2 | 60 | -53 | 2 | 170 |
| 12 |  |  |  | -69 | 2 | 54 | -60 | 3 | 170 |
| 15 | -74 | 2 | 82 | -66 | 3 | 37 | -60 | 3 | 151 |
| 18 | -72 | 2 | 88 | -66 | 3 | 67 | -54 | 2 | 170 |
| 21 | -72 | 2 | 98 | -55 | 2 | 360 | -64 | 4 | 194 |
|  | DAY | 22 |  | DAY | 23 |  | DAY | 24 |  |
| 00 | -62 | 2 | 12 | -55 | 0 | 0 | -63 | 0 | 0 |
| 03 | -62 | 2 | 4 | -55 | 0 | 0 | -62 | 1 | 64 |
| 06 | -62 | 2 | 360 | -60 | 2 | 78 | -62 | 0 | 0 |
| 09 | -64 | 2 | 341 | -65 | 1 | 70 | -62 | 0 | 0 |
| 12 |  |  |  | -64 | 0 | 0 | -61 | 0 | 0 |
| 15 | -64 | 2 | 343 | -65 | 1 | 60 | -61 | 1 | 59 |
| 18 |  |  |  | -67 | 0 | 0 | -64 | 0 | 0 |
| 21 | -57 | 0 | 0 | -62 | 0 | 0 | -64 | 1 | 25 |
|  | DAY | 29 |  | DAY | 30 |  | DAY | 31 |  |
| 00 | -59 | 0 | 0 | -73 | 2 | 39 | -67 | 3 | 360 |
| 03 | -62 | 0 | 0 | -69 | 4 | 29 | -67 | 4 | 11 |
| 06 | -61 | 1 | 92 | -66 | 7 | 16 | -64 | 5 | 18 |
| 09 | -65 | 3 | 56 | -68 | 5 | 360 | -63 | 5 | 2 |
| 12 |  |  |  | -67 | 5 | 360 | -63 | 6 | 1 |
| 15 |  |  |  | -66 | 6 | 358 | -65 | 5 | 14 |
| 18 | -76 | 1 | 26 | -69 |  | 360 |  |  |  |
| 21 | -75 | 2 | 42 | -66 |  | 360 | -65 | 3 | 22 |



MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-66.5$ STD DEV $=5.5$ MAX $=-52.1$ AT 910 GMT ON DAY 17 MIN $=-76.9$ AT 1840 GMT ON DAY 29
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=2.5$ STD DEV $=1.3$ RESULTANT $=0.1$ FROM 163. CONSTANCY $=0.05$ MAX $=8.3$ FROM 175 . AT 240 GMT DAY 14
* MISSING 3-hourly observations * temperature: $10.9 \%$ PRESSURE: $100.0 \%$ WINDS: 10.9 \%

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllllll}\text { PERCENT } & 7 & 6 & 5 & 7 & 7 & 8 & 5 & 2 & 9 & 10 & 7 & 8 & 4 & 6 & 4 & 3\end{array}$


* TEMPERATURE (C) * MEAN $=-62.3$ STD DEV $=7.2$ MAX $=-42.2$ AT 1640 GMT ON DAY 17 MIN $=-73.9$ AT 340 GMT ON DAY 12
* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=2.9$ STD DEV $=1.5$ RESULTANT $=0.4$ FROM 59. CONSTANCY $=0.14$ MAX $=15.6$ FROM 5 . AT 1640 GMT DAY 17
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $11.7 \%$ PRESSURE: $100.0 \%$ WINDS: $11.7 \%$
 PERCENT: $\begin{array}{llllllllllllll}23 & 61 & 11 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

* temperature ( $C$ ) * mean $=-66.1$ Std dev $=8.5$ max $=-44.9$ at 2120 GMT ON dAY 25 MIN $=-79.4$ AT 10 GMT ON DAY 10
* theta (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0 * WINDS (M/S) * MEAN $=2.9 \mathrm{STD}$ DEV $=1.6$ RESULTANT $=0.8$ FROM 247. CONSTANCY $=0.29 \mathrm{MAX}=10.6$ FROM 254. AT 2110 GMT DAY 25 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.3 \%$ PRESSURE: $100.0 \%$ WINDS: $\mathbf{7 . 3} \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT $\begin{array}{llllllllllllllll}7 & 7 & 7 & 3 & 3 & 1 & 5 & 2 & 7 & 7 & 9 & 12 & 17 & 10 & 3 & 0\end{array}$



PP TT WV DD DAY 7
-73 2265
-71 2251
$-66 \quad 3233$
$\begin{array}{lll}-65 & 3 & 187\end{array}$
-72 2142
$\begin{array}{lll}-75 & 2 & 127\end{array}$
$\begin{array}{lll}-74 & 2 & 111\end{array}$
-74 3116
DAY 14
-63 2291
$\begin{array}{ll}-65 & 281\end{array}$
-64 1279
$\begin{array}{lll}-67 & 2 & 275 \\ 68 & 2 & 264\end{array}$
-68 2264
-69 1265
-68 1260
DAY 21
-72 1139
$-67 \quad 1115$
$-67.1111$
$\begin{array}{lll}-70 & 0 & 0 \\ -73 & 0 & 0 \\ -73 & 0 & 0\end{array}$
-74 0
DAY 28
$\begin{array}{lll}-56 & 2 & 42\end{array}$
$\begin{array}{lll}-57 & 1 & 43\end{array}$
$\begin{array}{lll}-58 & 2 & 61 \\ -59 & 2 & 77\end{array}$
-59 1770
$\begin{array}{llr}-61 & 1 & 88 \\ -66 & 0 & 0\end{array}$
$-65 \quad 1 \quad 81$

## MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-67.9$ STD DEV $=5.9$ MAX $=-52.5$ AT 510 GMT ON DAY 13 MIN $=-78.9$ AT 820 GMT ON DAY 4
* theta (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* WINDS (M/S) * MEAN $=2.0$ STD DEV $=1.5$ RESULTANT $=0.6$ FROM 130. CONSTANCY $=0.32$ max $=7.6$ FROM 104. AT 610 GMT DAY 11
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $9.7 \%$ PRESSURE: $100.0 \%$ HINDS: $9.7 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 6 & 3 & 4 & 4 & 5 & 17 & 11 & 10 & 8 & 3 & 3 & 4 & 9 & 6 & 3 & 2\end{array}$

* TEMPERATURE (C) * MEAN $=-64.6$ STD DEV $=6.1$ MAX $=-44.2$ AT 630 GMT ON DAY 30 MIN $=-76.8$ AT 200 GMT ON DAY 15
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY O * WINDS (M/S) * MEAN $=2.4$ STD DEV $=1.8$ RESULTANT $=1.0$ FROM 163. CONSTANCY $=0.41$ MAX $=9.1$ FROM 139. AT 1000 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $12.9 \%$ PRESSURE: $100.0 \%$ WINDS: $12.9 \%$
 PERCENT: $\quad 50 \quad 33$ 11 50 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllll}\text { PERCENT } & 1 & 1 & 2 & 7 & 11 & 7 & 6 & 6 & 7 & 17 & 9 & 5 & 11 & 8 & 2 & 1\end{array}$


| PP TT | vv | DD | PP TT |  | DD |  |  | DD |  | W DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY | 4 |  | day | 5 |  | day | 6 |  | DAY | 7 |
| -72 | 2 | 50 | -58 | 4 | 33 | -60 | 3 | 73 | -53 | 352 |
| -69 | 4 | 59 | -56 | 5 | 39 | -59 | 4 | 80 | -51 | 653 |
| -62 | 4 | 52 | -52 | 4 | 40 | -55 | 6 | 77 | -45 | 742 |
| -56 | 5 | 43 | -51 | 3 | 26 | -52 | 7 | 75 | -41 | 842 |
| -53 | 5 | 33 | -49 | 1 | 14 | -52 | 8 | 80 | -40 | 940 |
| -56 | 4 | 35 | -56 | 2 | 59 | -54 | 10 | 68 | -41 | 1043 |
| -59 | 3 | 39 | -62 | 2 | 73 | -55 | 7 | 66 | -43 | 12 47 |
| -58 | 3 | 33 | -61 | 4 | 71 | -54 | 5 | 60 | -45 | $10 \quad 56$ |
| DAY | 11 |  | DAY | 12 |  | DAY | 13 |  | DAY | 14 |
| -57 |  | 101 | -56 | 5 | 71 | -60 | 2 | 80 | -60 | 3112 |
| -55 |  |  | -56 | 4 | 78 | -57 | 2 | 99 | -57 | 2129 |
| -52 |  | 112 | -51 | 2 | 67 | -52 | 1 | 94 | -53 | 3106 |
| -49 | 4 | 92 | -49 | 4 | 73 | -49 | 2 | 99 |  |  |
|  |  |  | -47 | 5 | 80 |  |  |  |  |  |
| -51 | 4 | 85 | -50 | 4 | 77 |  |  |  | -52 | 2142 |
| -55 | 4 | 81 | -58 | 2 | 81 | -58 | 3 | 123 | -54 | 3143 |
| -58 | 3 | 77 | -58 | 4 | 85 | -61 | 3 | 112 | -49 | 0 0 |
| DAY | 18 |  | DAY | 19 |  | DAY | 20 |  | DAY | 21 |
| -65 |  |  | -64 | 3 | 213 | -62 | 4 | 191 | -52 | 00 |
| -62 |  | 181 | -61 | 3 | 208 | -60 | 3 |  | -48 | 00 |
|  |  |  | -56 | 4 | 198 | -55 | 2 | 178 | -45 | 00 |
|  |  |  | -53 |  | 202 |  |  |  | -47 | 00 |
| -51 |  | 203 |  |  |  |  |  |  |  |  |
| -54 |  | 219 | -58 |  | 209 | -53 | 0 | 0 | -53 | 1277 |
| -60 |  | 220 | -62 | 2 | 199 | -53 | 1 | 142 | -61 | 2288 |
| -62 |  | 220 | -64 | 3 | 195 | -56 | 0 | 0 | -64 | 3291 |
| DAY | 25 |  | DAY | 26 |  | DAY | 27 |  | DAY | 28 |
| -63 | 2 | 30 | -62 |  | 244 | -60 | 4 | 209 | -59 | 2168 |
| -57 | 2 | 12 | -59 | 3 | 222 |  |  |  | -56 | 3180 |
| -48 | 0 | 0 | -53 | 1 | 212 | -52 | 2 | 188 | -50 | 1172 |
| -46 | 0 | 0 | -49 | 2 | 201 |  |  |  |  |  |
|  |  |  |  |  |  | -50 | 2 | 201 |  |  |
| -50 |  | 265 |  |  |  |  |  |  | -47 | $0 \quad 0$ |
| -55 |  | 255 | -59 |  | 202 | -59 | 2 | 171 | -51 | 00 |
| -60 |  | 247 | -64 | 3 | 199 | -64 | 3 | 167 | -56 | 00 |

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-55.5$ STD DEV $=6.2$ MAX $=-40.2$ AT 1210 GMT ON DAY 7 MIN $=-72.5$ AT 140 GMT ON DAY 4
* theta (K) * mean $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* WINDS (M/S) * MEAN $=2.9$ STD DEV $=2.4$ RESULTANT $=1.1$ FROM 85. CONSTANCY $=0.38 \mathrm{MAX}=13.6$ FROM 50. AT 1040 GMT DAY 9
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $15.3 \%$ PRESSURE: $100.0 \%$ WINDS: $15.3 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 $16-18$ 18-20 $20-25$ 25-30 $\quad 30-35$ 35-40 $40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 1+$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 1 & 5 & 15 & 16 & 10 & 3 & 2 & 5 & 12 & 11 & 5 & 6 & 3 & 3 & 1 & 1\end{array}$

P

PP TT VV DD DAY 5

PP
P TT VV DD
PP TT VV DD DAY 7 DAY 4
$\begin{array}{lllll}-61 & 5 & 180 & -58 & 2\end{array}$ $\begin{array}{lll}-50 & 3 & 191\end{array}$ $\begin{array}{lll}-53 & 5 & 161\end{array}$
$\begin{array}{lll}-58 & 5 & 177\end{array}$
$\begin{array}{lll}-52 & 5 & 181\end{array}$
$\begin{array}{lll}-47 & 5 & 178\end{array}$

| -53 | 4 | 189 | -50 | 3 | 195 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| -59 | 3 | 210 | -54 | 1 | 189 |
| DAY | 11 |  | DAY | 12 |  |
| -53 | 1 | 113 | -50 | 2 | 105 |

$\begin{array}{lll}-49 & 3 & 151 \\ -51 & 4 & 147\end{array}$
$-46 \quad 4129$ $-514122$
DAY 13 DAY 14
$\begin{array}{llllll}-35 & 0 & 0 & -37 & 1 & 170\end{array}$

| -36 | 0 | 0 | -37 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{lll}-36 & 1 & 122 \\ -34 & 2 & 133\end{array}$ -34 2133

| -46 | 1 | 129 | -37 | 0 | 0 | -41 | 2 | 109 | -44 | 2 | 150 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| -49 | 1 | 122 |  |  |  | -49 | 2 | 125 | -49 | 2 | 144 |
| DAY | 18 | DAY | 19 |  | DAY | 20 |  | DAY | 21 |  |  |
| -48 | 3 | 129 | -41 | 4 | 113 | -43 | 3 | 84 | -43 | 3 | 102 |
| -45 | 3 | 143 | -39 | 5 | 102 | -41 | 2 | 91 | -39 | 4 | 98 |
|  |  | -34 | 6 | 98 | -34 | 3 | 81 | -34 | 5 | 97 |  |
| -37 | 4 | 142 | -32 | 7 | 88 | -31 | 3 | 75 |  |  |  |
| -34 | 5 | 137 | -31 | 6 | 91 |  |  |  |  |  |  |
|  |  | -33 | 5 | 84 |  |  |  |  |  |  |  |
| -40 | 3 | 144 | -38 | 5 | 77 | -38 | 3 | 111 | -37 | 4 | 90 |
| -43 | 3 | 129 | -41 | 4 | 71 | -43 | 2 | 104 | -43 | 4 | 95 |
| DAY | 25 |  | DAY 26 |  | DAY | 27 |  | DAY | 28 |  |  |
| -36 | 0 | 0 | -43 | 2 | 279 | -41 | 2 | 291 |  |  |  |
| -38 | 2 | 248 | -39 | 1 | 271 | -37 | 1 | 295 |  |  |  |
| -34 | 3 | 191 | -35 | 3 | 284 |  |  |  | -34 | 5 | 67 |
| -33 | 1 | 178 |  |  |  | -27 | 2 | 322 | -32 | 5 | 61 |
|  |  |  |  |  |  | -26 | 1 | 360 | -33 | 3 | 74 |
| -32 | 1 | 255 | -33 | 2 | 316 | -36 | 1 | 66 | -38 | 2 | 74 |
| -38 | 2 | 258 | -40 | 2 | 300 | -41 | 2 | 54 | -43 | 1 | 80 |

* TEMPERATURE (C) * MEAN $=-42.4$ STD DEV $=8.8$ MAX $=-23.5$ AT 1230 GMT ON DAY 27 MIN $=-62.9$ AT 2210 GMT ON DAY 1
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY O
* $\operatorname{WINDS}(M / S) *$ MEAN $=3.6$ STD DEV $=2.2$ RESULTANT $=2.2$ FROM 128. CONSTANCY $=0.61$ MAX $=13.1$ FROM $59 . ~ A T ~ 950 ~ G M T ~ D A Y ~ 30 ~$
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $34.2 \%$ PRESSURE: $100.0 \%$ WINDS: $34.2 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 1 & 0 & 2 & 9 & 17 & 24 & 13 & 5 & 10 & 4 & 3 & 8 & 1 & 3 & 1 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-29.6$ STD DEV $=4.8$ MAX $=-18.4$ AT 1120 GMT ON DAY 2 MIN $=-41.9$ AT 20 GMT ON DAY 9
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * *$ AT 0 GMT ON DAY 0 MIN =****** AT ONT OAY O
* $\operatorname{WINDS}(M / S) *$ MEAN $=3.6$ STD DEV $=2.5$ RESULTANT $=2.2$ FROM 31. CONSTANCY $=0.59$ MAX $=12.3$ FROM 42 . AT 1810 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $41.5 \%$ PRESSURE: $100.0 \%$ WINDS: $41.5 \%$


$\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 11 & 30 & 18 & 5 & 2 & 0 & 0 & 1 & 9 & 7 & 6 & 2 & 2 & 1 & 2\end{array}$
HR PP TT VV DD

PP TT VV DD

$$
\text { DAY } 2
$$

PP TT VV DD
DAY 3
PP TT VV DD DAY 4

PP TT VV DD
PP TT VV DD DAY 6
PP TT VV DD DAY 7

03
06

09

12 15 18 21


## MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-0.1$ STD DEV $=1.0$ MAX $=1.9$ AT 2340 GMT ON DAY 25 MIN $=-3.2$ AT 1430 GMT ON DAY 14
* THETA (K) * MEAN $=275.16$
* PRESSURE (MB) * MEAN $=973.3$ STD DEV $=9.3$ MAX $=993.7$ AT 640 GMT ON DAY 18 MIN $=959.4$ AT 1830 GMT ON DAY 25
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $44.2 \%$ PRESSURE: $44.2 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

* TEMPERATURE (C) * MEAN $=-1.4$ STD DEV $=2.1$ MAX $=1.9$ AT 1050 GMT ON DAY 9 MIN $=-7.6$ AT 1000 GMT ON DAY 22
* THETA (K) * MEAN $=273.90$
* PRESSURE (MB) * MEAN $=972.7$ STD DEV $=11.2$ MAX $=996.0$ AT 530 GMT ON DAY 24 MIN $=944.4$ AT 700 GMT ON DAY 17
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $1.6 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 $4-6 \quad 6-8 \quad 8-10$ 10-12 $12-14$ 14-16 16 16-18 $18-20$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{llllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

APR 97


| PP |  | DD | PP |  |  | DD | PP | TT VV | DD | PP |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY | 5 |  |  | DAY 6 |  |  | DAY 7 |  |
| 974 | -1 |  | 963 | 0 |  |  | 967 | -8 |  | 977 | -7 |  |
| 972 | -1 |  | 961 | -1 |  |  | 970 | -9 |  | 977 | -7 |  |
| 971 | -1 |  | 957 | -1 |  |  | 973 | -10 |  | 976 | -7 |  |
| 970 | 0 |  | 950 | -2 |  |  | 975 | -9 |  | 974 | -6 |  |
| 968 | -1 |  | 947 | -3 |  |  | 977 | -9 |  | 972 | -6 |  |
| 965 | -1 |  | 950 | -5 |  |  | 977 | -8 |  | 972 | -7 |  |
| 964 | -1 |  | 954 | -7 |  |  | 977 | -9 |  | 972 | -7 |  |
| 963 | 0 |  |  |  |  |  |  |  |  | 974 | -8 |  |
|  | DAY 11 |  |  | DAY 1 | 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 974 | -1 |  | 973 | -5 |  |  | 980 | -6 |  | 955 | -3 |  |
| 972 | -3 |  | 974 | -4 |  |  | 978 | -4 |  | 956 | -3 |  |
| 970 | -2 |  | 973 | -3 |  |  | 976 | -4 |  | 962 | -8 |  |
| 968 | -2 |  | 973 | -4 |  |  | 974 | -3 |  | 967 | -11 |  |
| 967 | -1 |  | 974 | -4 |  |  | 969 | -3 |  | 973 | -14 |  |
| 967 | -2 |  | 975 | -5 |  |  | 961 | -3 |  | 978 | -14 |  |
| 967 | -2 |  | 978 | -7 |  |  | 957 | -2 |  | 981 | -15 |  |
| 969 | -5 |  | 980 | -7 |  |  | 955 | -2 |  |  |  |  |
|  | DAY 18 |  |  | DAY 1 |  |  |  | DAY 20 |  |  | DAY 21 |  |
| 981 | -2 |  | 977 | -2 |  |  | 968 | -2 |  | 988 | -6 |  |
| 980 | -2 |  | 978 | -2 |  |  | 973 | -4 |  | 990 | -5 |  |
| 980 | -2 |  | 979 | -2 |  |  | 979 | -6 |  | 991 | -5 |  |
| 980 | -2 |  | 978 | -2 |  |  | 985 | -7 |  | 992 | -5 |  |
| 980 | -2 |  | 976 | -2 |  |  | 989 | -7 |  | 992 | -5 |  |
| 978 | -2 |  | 972 | -2 |  |  | 989 | -7 |  | 992 | -4 |  |
| 977 | -2 |  | 969 | -2 |  |  | 988 | -7 |  | 990 | -3 |  |
|  |  |  |  |  |  |  | 989 | -7 |  | 989 | -3 |  |
|  | DAY 25 |  |  | DAY 2 |  |  |  | DAY 27 |  |  | DAY 28 |  |
| 978 | -1 |  | 973 | -3 |  |  | 979 | -3 |  | 976 | -7 |  |
| 979 | -2 |  | 971 | -2 |  |  | 979 | -3 |  | 977 | -8 |  |
| 982 | -2 |  | 971 | -4 |  |  | 978 | -3 |  | 979 | -10 |  |
| 982 | -2 |  | 974 | -9 |  |  | 977 | -3 |  | 981 | -12 |  |
| 981 | -2 |  | 977 | -11 |  |  | 977 | -4 |  | 982 | -13 |  |
| 978 | -1 |  | 980 | -9 |  |  | 976 | -5 |  | 983 | -12 |  |
| 976 | -2 |  | 980 | -8 |  |  | 975 | -4 |  | 983 | -12 |  |
| 975 | -3 |  | 979 | -5 |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-4.1$ StD dev $=3.7$ MAX $=0.6$ AT 1650 GMT ON DAY 22 MIN $=-17.1$ AT 1340 GMT ON DAY 29
* theta (K) * MEAN $=270.85$
* PRESSURE (MB) * MEAN $=977.4$ STD DEV $=9.7$ MAX $=1002.2$ AT 1120 GMT ON DAY 23 MIN $=946.5$ AT 1140 GMT ON DAY 5
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-hourly observations * temperature: $3.7 \%$ PRESSURE: $3.7 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 $4-6$ 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $\quad$ E ESE $\quad$ SE SSE $\quad S \quad$ SSW $\begin{array}{llllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | TT VV | DD PP | It VV | DD PP | it vV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY 1 |  | DAY 2 |  | DAY 3 |  |
| 00 | 963 | -13 | 953 | -1 | 971 | -11 |  |
| 03 | 972 | -16 | 954 | -7 | 975 | -13 |  |
| 06 | 980 | -15 | 957 | -11 | 974 | -13 |  |
| 09 | 983 | -15 | 960 | -12 | 971 | -10 |  |
| 12 | 984 | -15 | 963 | -12 | 971 | -9 |  |
| 15 | 980 | -12 | 966 | -13 | 971 | -9 |  |
| 18 | 969 | -6 | 969 | -13 | 972 | -9 |  |
| 21 | 958 | -2 | 970 | -12 | 970 | -8 |  |
|  |  | DAY 8 |  | DAY 9 |  | day 10 |  |
| 00 | 978 | -8 | 974 | -11 | 958 | -12 |  |
| 03 | 972 | -7 | 967 | -8 | 960 | -13 |  |
| 06 | 965 | -7 | 962 | -8 | 962 | -13 |  |
| 09 | 963 | -8 | 958 | -7 | 963 | -13 |  |
| 12 | 967 | -12 | 956 | -8 | 964 | -13 |  |
| 15 | 973 | -14 | 956 | -9 | 964 | -13 |  |
| 18 | 976 | -14 | 956 | -10 | 964 | -13 |  |
| 21 | 978 | -13 | 957 | -11 | 964 | -12 |  |
|  |  | DAY 15 |  | DAY 16 |  | DAY 17 |  |
| 00 | 950 | -20 | 974 | -22 | 973 | -15 |  |
| 03 | 953 | -22 | 974 | -22 | 970 | -11 |  |
| 06 | 958 | -22 | 975 | -22 | 969 | -13 |  |
| 09 | 961 | -22 | 976 | -20 | 972 | -17 |  |
| 12 | 965 | -23 | 977 | -18 | 974 | -17 |  |
| 15 | 967 | -23 | 978 | -18 | 977 | -18 |  |
| 18 | 969 | -22 | 978 | -18 | 978 | -22 |  |
| 21 | 971 | -21 | 977 | -18 | 978 | -22 |  |
|  |  | DAY 22 |  | DAY 23 |  | DAY 24 |  |
| 00 | 975 | -19 | 974 | -18 | 961 | -14 |  |
| 03 | 974. | -19 | 972 | -18 | 960 | -16 |  |
| 06 | 973 | -17 | 969 | -17 | 959 | -16 |  |
| 09 | 972 | -15 | 967 | -15 | 957 | -16 |  |
| 12 | 972 | -16 | 966 | -13 | 956 | -17 |  |
| 15 | 974 | -16 | 964 | -12 | 956 | -18 |  |
| 18 | 975 | -16 | 962 | -11 | 956 | -18 |  |
| 21 | 975 | -17 | 962 | -14 | 955 | -16 |  |
|  |  | DAY 29 |  | DAY 30 |  | DAY 31 |  |
| 00 | 978 | -16 | 969 | -1 | 970 | -11 |  |
| 03 | 979 | -14 | 965 | -1 | 971 | -13 |  |
| 06 | 980 | -17 | 960 | -2 | 972 | -11 |  |
| 09 | 979 | -14 | 961 | -5 | 973 | -11 |  |
| 12 | 979 | -7 | 965 | -7 | 972 | -8 |  |
| 15 | 978 | -6 | 967 | -7 | 973 | -7 |  |
| 18 | 975 | -7 | 968 | -7 | 974 | -10 |  |
| 21 | 971 | -4 | 969 | -11 | 975 | -12 |  |



## DAY 19

964-13
968-14
975-16
980-15
983-16
983-17
980-13
974-10
DAY 26
987-22
989-23
990-20
990-22
989-22
988-22
988-20
990-20

|  | TT VV | DD |
| :---: | :---: | :---: |
|  | DAY 6 |  |
| 971 | -4 |  |
| 962 | -1 |  |
| 965 | -3 |  |
| 967 | -3 |  |
| 969 | -4 |  |
| 971 | -5 |  |
| 974 | -8 |  |
| 976 | -11 |  |
|  | DAY 13 |  |
| 963 | -16 |  |
| 962 | -18 |  |
| 961 | -19 |  |
| 961 | -21 |  |
| 961 | -21 |  |
| 961 | -20 |  |
| 962 | -21 |  |
| 963 | -22 |  |
|  | DAY 20 |  |
| 970 | -2 |  |
| 965 | -1 |  |
| 958 | -1 |  |
| 952 | -1 |  |
| 951 | -2 |  |
| 951 | -3 |  |
| 949 | -2 |  |

PP TT VV DD DAY 7
974-7
$972-5$
$969-3$
974-11
982-18
987-18
986-15

DAY 14
963-22
961-23
957-23
955-23
950-21
947-19
946-18
947-19
DAY 21
$949-5$
951 -7
957-11
964-14
970-14
975-16
976-17
976-17
DAY 28
990-18
987-16
984-15
981-15
979-17
977-16
976-15
976-15

* TEMPERATURE (C) * MEAN $=-13.6$ STD DEV $=5.8$ MAX $=-0.8$ AT 2340 GMT ON DAY 1 MIN $=-23.4$ AT 210 GMT ON DAY 26
* THETA (K) * MEAN $=261.89$
* PRESSURE (MB) * MEAN $=970.0$ STD DEV $=10.3$ MAX $=997.9$ AT 1100 GMT ON DAY 27 MIN $=945.5$ AT 1720 GMT ON DAY 14
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.0 \%$ PRESSURE: $2.0 \%$ WINDS: $100.0 \%$
 $\begin{array}{lcccccccccccccc}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW }\end{array}$
$\begin{array}{lrrrrrrrrrrrrrrr} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* THETA (K) * MEAN $=261.82$
* PRESSURE (MB) * MEAN $=975.1$ STD DEV $=11.4$ MAX $=1002.9$ AT 1840 GMT ON DAY 23 MIN $=951.2$ AT 2030 GMT ON DAY 2
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.7 \%$ PRESSURE: $3.7 \%$ WINDS: $100.0 \%$

 $\begin{array}{llllllllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-15.0$ Std dev $=7.4$ max $=-0.6$ at 440 GMT ON DAY 31 MIN $=-27.4$ At 530 GMT ON DAY 2
* theta (K) * mean $=259.86$
* PRESSURE (MB) * MEAN $=977.5$ STD DEV $=13.8$ MAX $=1013.4$ AT 1520 GMT ON DAY 27 MIN $=940.5$ at 1000 GMT ON DAY 4
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.8 \%$ PRESSURE: $4.8 \%$ UINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

AUG 97


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-16.5$ STD DEV $=9.0$ MAX $=0.4$ AT 2220 GMT ON DAY 26 MIN $=-30.9$ AT 910 GMT ON DAY 7
* THETA (K) * MEAN $=258.83$
* PRESSURE (MB) * MEAN $=971.5$ STD DEV $=13.0$ MAX $=1001.7$ AT 1610 GMT ON DAY 1 MIN $=935.0$ AT 640 GMT ON DAY 29
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.0 \%$ PRESSURE: $4.0 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 $\quad 8-10 \quad 10-1212-1414-16 \quad 16-18 \quad 18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

SEP 97


* TEMPERATURE (C) * MEAN $=-15.4$ STD DEV $=6.5$ MAX $=-0.1$ AT 830 GMT ON DAY 9 MIN $=-29.6$ AT 1500 GMT ON DAY 17
* THETA (K) * MEAN = 259.74
* PRESSURE (MB) * MEAN $=974.0$ STD DEV $=9.7$ MAX $=999.3$ AT 2000 GMT ON DAY 7 MIN $=949.5$ AT 1720 GMT ON DAY 28
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $5.8 \%$ PRESSURE: $5.8 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

OCT 97

PP TT VV DD PP TT VV DD

| PP | TT VV DD |
| ---: | ---: | ---: |
| DAY | 4 |


$965-6$

| DAY 19 |  |  |
| :--- | :--- | :---: |
| 978 | -8 |  |
| 978 | -9 |  |
| 977 | -10 |  |
| 975 | -11 |  |
| 971 | -9 |  |
| 965 | -7 |  |
| 962 | -3 |  |


| DAY 20 | DAY 21 |  |  |
| :--- | :--- | :--- | :--- |
| 964 | -3 | 956 | -10 |
| 963 | -3 | 958 | -12 |
| 962 | -6 | 960 | -13 |
| 961 | -7 | 961 | -15 |
| 959 | -8 | 961 | -16 |
| 956 | -9 | 960 | -16 |
| 956 | -13 | 959 | -16 |
| 956 | -13 | $958-16$ |  |
| DAY 27 | DAY 28 |  |  |
| 945 | -2 | 966 | -7 |
| 945 | -2 | 970 | -8 |
| 942 | -3 | 975 | -9 |
| 940 | -8 | 978 | -9 |
| 939 | -9 | 981 | -9 |
| 943 | -10 | 982 | -9 |
| 949 | -8 | 982 | -9 |

MONTHLY SUMMARY



* TEMPERATURE (C) * MEAN $=-4.2$ STD DEV $=3.6$ MAX $=0.9$ AT 150 GMT ON DAY 25 MIN $=-14.5$ AT 1050 GMT ON DAY 4
* THETA (K) * MEAN $=271.01$
$\star$ PRESSURE (MB) * MEAN $=974.0$ STD DEV $=10.3$ MAX $=991.9$ AT 1800 GMT ON DAY 22 MIN $=943.6$ AT 1410 GMT ON DAY 2
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.1 \%$ PRESSURE: $7.1 \%$ WINDS: $100.0 \%$
 PERCENT:
WIND DIRECTION: N NNE NE ENE E $\quad$ ESE
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C) * MEAN $=-1.5$ STD DEV $=1.4$ MAX $=2.5$ AT 250 GMT ON DAY 7 MIN $=-4.4$ AT 1320 GMT ON DAY 2
* THETA (K) * MEAN $=272.86$
* PRESSURE (MB) * MEAN $=984.5$ STD DEV $=11.7$ MAX $=1008.2$ AT 1030 GMT ON DAY 5 MIN $=953.1$ AT 1420 GMT ON DAY 18

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.3 \%$ PRESSURE: $7.3 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\begin{array}{ll}40-45 & 45-50 \\ 50-55 & 55-60 \\ 60+\end{array}$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW

| PERCENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |



| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |

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00
03
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18
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9807
$980 \quad 1$
9810
$8 \quad 982 \quad 0 \quad 982 \quad 1$
$\begin{array}{lllll}1 & 984 & 3 & 983 & 1\end{array}$
DAY 22
983
$984 \quad 1$
9850
9850
$986 \quad 1$
9880
9891
DAY 29
9780
9780
979-1
$\begin{array}{ll}980 & -1\end{array}$
$981-1$
$\begin{array}{lll}5 & 982 & -1\end{array}$
$\begin{array}{lll}18 & 983 & -1\end{array}$
$\begin{array}{lll}21 & 983 & -1\end{array}$
9824
9837
9835
9834
9822
$981 \quad 1$
9812
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9761
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DAY 15
03
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    ,
    $\begin{array}{ll}983 & 5 \\ 982 & 2 \\ 981 & 0 \\ 982 & 1 \\ 983 & 1\end{array}$
$\begin{array}{ll} & \text { DAY } 23 \\ 990 & 1\end{array}$
DAY 3
DA
$\begin{array}{llll}977 & 1 & 976 & 2 \\ 976 & 0 & 977 & 1 \\ 976 & 0 & 977 & 0 \\ 976 & 0 & 978 & 0 \\ 976 & 0 & 978 & 0 \\ 976 & 1 & 979 & 4\end{array}$
9862
9873
9883
$988-1$
$988-1$
$988 \quad 1$

| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |



| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |

PP TT WV DD DAY 7
$977 \quad 4 \quad 9814$
$\begin{array}{ll}978 & 3 \\ 978 & 5\end{array}$
9786
9773
9771
9762
9762
$\begin{array}{ll}979 & 2 \\ 980 & 1 \\ 980 & 2\end{array}$
DAY 12
DAY 13

| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| HR | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 1 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 3 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } 4 \end{array}$ | DD |  | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 5 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 982 | 4 |  |  |  |  |  |  |  | 978 | 6 |  | 977 | 4 |  | 981 | 4 |  |  |  |  |
| 03 | 983 | 7 |  |  |  |  |  |  |  | 978 | 6 |  | 978 | 3 |  | 981 | 3 |  |  |  |  |
| 06 | 983 | 5 |  | 977 | 1 |  | 976 | 2 |  |  |  |  | 978 | 5 |  | 980 | 3 |  | 976 | 1 |  |
| 09 | 983 | 4 |  | 976 | 0 |  | 977 | 1 |  | 977 | 3 |  |  |  |  | 981 | 0 |  | 976 | 1 |  |
| 12 | 982 | 2 |  | 976 | 0 |  | 977 | 0 |  | 977 | 1 |  | 979 | 2 |  | 980 | -1 |  | 975 | 0 |  |
| 15 | 981 | 1 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 1 | . | 979 | -1 |  | 975 | 0 |  |
| 18 | 981 | 2 |  | 976 | 0 |  | 978 | 0 |  | 976 | 2 |  | 980 | 2 |  | 979 | -1 |  | 975 | 0 |  |
| 21 |  |  |  | 976 | 1 |  | 979 | 4 |  |  |  |  |  |  |  | 979 | 0 |  | 976 | 2 |  |
|  |  | DAY 8 |  |  | DAY 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 | 976 | 6 |  | 976 | 2 |  | 980 | 3 |  |  |  |  |  |  |  |  |  |  | 978 | -1 |  |
| 03 | 977 | 6 |  | 976 | 1 |  | 980 | 2 |  | 983 | 2 |  | 979 | 2 |  | 980 | 2 |  | 977 | -1 |  |
| 06 |  |  |  | 977 | 0 |  | 981 | 1 |  | 983 | 3 |  | 979 | 1 |  | 980 | 2 |  | 978 | -1 |  |
| 09 |  |  |  | 977 | 0 |  | 981 | 0 |  | 983 | 1 |  | 979 | 0 |  | 980 | 1 |  | 979 | -1 |  |
| 12 | 976 | 1 |  | 978 | 0 |  | 982 | -1 |  | 982 | 0 |  | 979 | -1 |  | 980 | 0 |  | 980 | -1 |  |
| 15 | 976 | 1 |  | 978 | -1 |  | 982 | -1 |  | 982 | 0 |  | 979 | 0 |  | 979 | -1 |  | 981 | -1 |  |
| 18 | 976 | 1 |  | 979 | -1 |  | 982 | -1 |  | 981 | 1 |  | 979 | 1 |  | 978 | -1 |  | 982 | -1. |  |
| 21 | 976 | 2 |  | 980 | 2 |  | 983 | 0 |  | 980 | 2 |  | 980 | 2 |  | 978 | -1 |  | 982 | 2 |  |
|  |  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 |  |  |  |  |  |  | 985 | 1 |  | 988 | 3 |  | 989 | 1 |  | 983 | 1 |  | 983 | 1 |  |
| 03 |  |  |  |  |  |  | 986 | 2 |  |  |  |  | 988 | 2 |  | 981 | 1 |  | 983 | 2 |  |
| 06 | 980 | 7 |  |  |  |  | 987 | 3 |  |  |  |  | 988 | 0 |  | 979 | 1 |  | 983 | 2 |  |
| 09 | 980 | 3 |  | 983 | 5 |  | 988 | 3 |  | 988 | 2 |  | 987 | 0 |  | 980 | 0 |  | 983 | 1 |  |
| 12 | 980 | 1 |  | 982 | 2 |  | 988 | -1 |  | 988 | 0 |  | 987 | -1 |  | 979 | 0 |  | 983 | 0 |  |
| 15 | 981 | 0 |  | 981 | 0 |  | 988 | -1 |  | 988 | 0 |  | 986 | -1 |  | 980 | 0 |  | 982 | 0 |  |
| 18 | 982 | 0 |  | 982 | 1 |  | 988 | 1 |  | 988 | 0 |  | 985 | 0 |  | 981 | 0 |  | 982 | 0 |  |
| 21 | 984 | 3 |  | 983 | 1 |  |  |  |  | 989 | 1 |  | 984 | 0 |  | 982 | 1 |  | 983 | 0 |  |
|  |  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 983 | 0 |  | 990 | 1 |  | 986 | 2 |  | 984 | 2 |  | 977 | 2 |  | 978 | 3 |  | 984 | 0 |  |
| 03 | 983 | 0 |  | 990 | 2 |  | 985 | 2 |  | 983 | 2 |  | 977 | 4 |  | 979 | 3 |  | 983 | 0 |  |
| 06 | 984 | 1 |  | 990 | 2 |  | 985 | 2 |  | 983 | 1 |  | 976 | 2 |  | 980 | 3 |  | 983 | -1 |  |
| 09 | 985 | 0 |  | 990 | 1 |  | 985 | -1 |  | 981 | 0 |  | 976 | 1 |  | 980 | 0 |  | 982 | -1 |  |
| 12 | 985 | 0 |  | 989 | -1 |  | 984 | -1 |  | 980 | -2 |  | 977 | -2 |  | 982 | 0 |  | 981 | -1 |  |
| 15 | 986 | 1 |  | 989 | 0 |  | 984 | -1 |  | 979 | -1 |  | 977 | -3 |  | 982 | 0 |  | 979 | 0 |  |
| 18 | 988 | 0 |  | 987 | 0 |  | 984 | -1 |  | 978 | -1 |  | 977 | -1 |  | 983 | -1 |  | 978 | -1 |  |
| 21 | 989 | 1 |  | 987 | 2 |  | 984 | 0 |  | 978 | 3 |  | 977 | 1 |  | 983 | 0 |  | 978 | -1 |  |
|  |  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 978 | 0 |  | 984 | 1 |  | 992 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 978 | 0 |  | 984 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 979 | -1 |  | 985 | 2 |  | 991 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 980 | -1 |  | 986 | 0 |  | 991 | 2 |  |  |  | - |  |  |  |  |  |  |  |  | 1 |
| 12 | 981 | -1 |  | 988 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 982 | -1 |  | 990 | -1 |  | 992 | -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 983 | -1 |  | 992 | -2 |  | 992 | -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 983 | -1 |  | 992 | 1 |  | 992 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |

9790
980
9810
982
9813
$980 \quad 3 \quad 9761$
$9810 \quad 9761$
$9792980-1 \quad 9750$
$979-1$
$979-1$
DAY 14
$\begin{array}{ll}978 & -1\end{array}$
$977-1$
$\begin{array}{ll}978 & -1\end{array}$
$979-1$
$980-1$
$\begin{array}{ll}981 & -1\end{array}$
982-1.
9822
DAY 21
9831
9882
9882
9870
$987-1$
$\begin{array}{ll}986 & -1\end{array}$
9850
9840
DAY 26
DAY 27
DAY 28
9783
9840
9772
9774
9793
9830
$\begin{array}{llllll}976 & 2 & 980 & 3 & 983 & -1\end{array}$
$\begin{array}{llllll}976 & 1 & 980 & 0 & 982 & -1\end{array}$
977 -2
977 -3
977 -1
9771


* TEMPERATURE (C) * MEAN $=0.8$ STD DEV $=1.7$ MAX $=6.6$ AT 210 GMT ON DAY 1 MIN $=-2.6$ AT 1500 GMT ON DAY 26
* THETA (K) * MEAN $=275.44$
* PRESSURE (MB) * MEAN $=981.7$ STD DEV $=4.2$ MAX $=992.6$ AT 2300 GMT ON DAY 30 MIN $=974.9$ AT 1330 GMT ON DAY 7
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $10.1 \%$ PRESSURE: $10.1 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


[^5]| HR | PP | It WV | DD PP | TT VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY 1 |  | DAY 2 |  |
| 00 | 968 | -4 | 971 | -5 |  |
| 03 | 967 | -3 | 974 | -5 |  |
| 06 | 968 | -1 | 978 | -5 |  |
| 09 | 969 | -4 | 980 | -6 |  |
| 12 | 970 | -5 | 982 | -7 |  |
| 15 | 969 | -3 | 984 | -7 |  |
| 18 | 969 | -3 | 986 | -6 |  |
| 21 | 970 | -4 | 987 | -6 |  |
|  |  | DAY 8 |  | DAY 9 |  |
| 00 | 970 | -6 | 970 | -6 |  |
| 03 | 971 | -5 | 968 | -6 |  |
| 06 | 971 | -6 | 964 | -5 |  |
| 09 | 972 | -6 | 958 | -6 |  |
| 12 | 971 | -5 | 953 | -6 |  |
| 15 | 971 | -6 | 948 | -6 |  |
| 18 | 971 | -6 | 944 | -6 |  |
| 21 | 971 | -6 | 948 | -5 |  |
|  |  | DAY 15 |  | DAY 16 |  |
| 00 | 968 | -7 | 975 | -10 |  |
| 03 | 970 | -8 | 975 | -9 |  |
| 06 | 971 | -8 | 974 | -9 |  |
| 09 | 973 | -9 | 973 | -10 |  |
| 12 | 974 | -9 | 973 | -11 |  |
| 15 | 974 | -9 | 972 | -10 |  |
| 18 | 975 | -10 | 971 | -10 |  |
| 21 | 975 | -10 | 971 | -9 |  |
|  |  | DAY 22 |  | DAY 23 |  |
| 00 | 977 | -14 | 980 | -15 |  |
| 03 | 978 | -14 | 981 | -14 |  |
| 06 | 978 | -14 | 982 | -15 |  |
| 09 | 979 | -14 | 984 | -15 |  |
| 12 | 979 | -14 | 986 | -15 |  |
| 15 | 979 | -14 | 987 | -14 |  |
| 18 | 979 | -15 | 989 | -14 |  |
| 21 | 980 | -15 | 989 | -12 |  |
|  |  | DAY 29 |  | DAY 30 |  |
| 00 | 958 | -17 | 955 | -14 |  |
| 03 | 956 | -17 | 957 | -14 |  |
| 06 | 954 | -20 | 957 | -14 |  |
| 09 | 952 | -20 | 958 | -13 |  |
| 12 | 951 | -18 | 958 | -11 |  |
| 15 | 951 | -17 | 958 | -14 |  |
| 18 | 952 | -16 | 960 | -15 |  |
| 21 | 954 | -16 | 963 | -15 |  |




PP TT VV DD DAY 7
$970-6$
$969 \quad-7$
968 -7
968 -7
$\begin{array}{ll}968 & -7\end{array}$
968 -7
968 -7
969 -7
DAY 14
964 -5
$963-6$
$963-8$
$\begin{array}{ll}964 & -7\end{array}$
$963-6$
$964-7$
$\begin{array}{ll}965 & -7\end{array}$
966 -6
DAY 21
973-14
973-14
973-15
973-15
974-15
974-15
975-15
976-15
DAY 28
969-11
969-11
968-12
966-12
961-12
956-13
955-14
957-18

* TEMPERATURE ( $C$ ) * MEAN $=-9.2$ STD DEV $=4.0$ MAX $=-1.1$ AT 520 GMT ON DAY 1 MIN $=-20.4$ AT 830 GMT ON DAY 29
* theta (K) * MEAN $=266.24$
* PRESSURE (MB) * MEAN $=970.7$ STD DEV $=9.8$ MAX $=990.8$ at 1920 GMT ON DAY 24 MIN $=944.1$ at 1900 GMt ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=\star * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\begin{array}{lllllllllllllllllll}0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
$\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

APR 97 HR PP TT VV DD DAY 1
00 969-15
$03 \quad 971-14$
06 971-16
09 966-13
12 964-15
15 963-14
18 965-13
21 968-15
DAY 8
00 966-15
$\begin{array}{lll}03 & 967-13\end{array}$
$06 \quad 970-14$
$\begin{array}{lll}09 & 973 & -14\end{array}$
12 976-14
$\begin{array}{ll}15 & 977 \\ -13\end{array}$
18 977-12
21 976-13
$00 \quad 979$ - 23
$03 \quad 980-23$
$\begin{array}{lll}06 & 981 & -24\end{array}$
09 983-24
12 984-22
$\begin{array}{ll}15 & 985 \\ -21\end{array}$
$\begin{array}{ll}18 & 987 \\ -21\end{array}$
21 988-21
DAY 22
00 994-16
$\begin{array}{llll}03 & 994 & -17\end{array}$
06 993-17
09 992-17
12 990-17
15 987-17
18 985-17
21 980-17
DAY 29
00 978-25
$03 \quad 977-24$
06 974-21
$\begin{array}{ll}09 & 972-19\end{array}$
12 971-19
$\begin{array}{ll}15 & 971-19\end{array}$
18 972-20
$21-973-20$

PP TT VV DD
972-14
973-15
974-16
974-16
974-16
974-17
976-17
978-19
DAY 9
974-13
973-14
973-12
975-13
976-13
976-13
975-14
975-14
DAY 16
989-21
990-21
991-22
991-21
991-22
991-21
991-20
991-19
DAY 23
979-16
980-17
982-18
985-17
986-16
987-17
986-18
984-19
DAY 30
974-20
974-21
973-22
971-23
970-24
968-25
968-24
969-24


|  | $\begin{gathered} \text { TT VV } \\ \text { DAY } 4 \end{gathered}$ |
| :---: | :---: |
| 986 | -19 |
| 984 | -18 |
| 982 | -18 |
| 982 | -18 |
| 982 | -18 |
| 981 | -18 |
| 980 | -16 |
| 979 | -16 |
|  | DAY 11 |
| 974 | -17 |
| 973 | -17 |
| 972 | -17 |
| 971 | -17 |
| 969 | -18 |
| 968 | -17 |
| 968 | -18 |
| 968 | -20 |
|  | DAY 18 |
| 997 | -17 |
| 998 | -16 |
| 999 | -17 |
| 1001 | -16 |
| 1002 | -16 |
| 1002 | -16 |
| 1002 | -16 |
| 1002 | -15 |
|  | DAY 25 |
| 979 | -25 |
| 981 | -25 |
| 983 | -25 |
| 984 | -25 |
| 985 | -26 |
| 983 | -26 |
| 981 | -27 |
| 979 | -27 |



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-18.8$ Std dev $=4.3$ MAX $=-8.5$ AT 220 GMt ON dAY 6 min $=-28.1$ at 700 gmt on day 26
* theta (K) * MEAN $=255.85$
* PRESSURE (MB) * MEAN $=979.7$ STD DEV $=10.0$ MAX $=1003.0$ at 2250 GMT ON DAY 18 MIN $=962.3$ AT 2250 GMT ON DAY 5
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=\star * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP |  | DD PP | TT VV | DD PP | IT VV |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY 1 |  | DAY 2 |  | DAY |
| 00 | 971 | -25 | 967 | -20 | 957 | -18 |
| 03 | 972 | -25 | 965 | -19 | 958 | -19 |
| 06 | 973 | -25 | 963 | -21 | 958 | -19 |
| 09 | 975 | -25 | 962 | -19 | 960 | -20 |
| 12 | 975 | -24 | 961 | -18 | 961 | -19 |
| 15 | 975 | -26 | 958 | -19 | 961 | -18 |
| 18 | 973 | -25 | 957 | -19 | 961 | $-17$ |
| 21 | 970 | -23 | 957 | -19 | 960 | -16 |
|  |  | DAY 8 |  | DAY 9 |  | DAY 10 |
| 00 | 978 | -22 | 973 | -21 | 965 | -22 |
| 03 | 978 | -21 | 969 | -20 | 964 | -22 |
| 06 | 979 | -21 | 967 | -18 | 964 | -21 |
| 09 | 980 | -22 | 964 | -17 | 964 | -21 |
| 12 | 980 | -22 | 964 | -17 | 964 | -20 |
| 15 | 980 | -22 | 964 | -18 | 964 | -20 |
| 18 | 979 | -21 | 964 | -20 | 964 | -21 |
| 21 | 977 | -21 | 964 | -20 | 965 | -21 |
|  |  | DAY 15 |  | DAY 16 |  | DAY 17 |
| 00 | 970 | -26 | 960 | -22 | 949 | -14 |
| 03 | 970 | -26 | 958 | -23 | 950 | -15 |
| 06 | 969 | -25 | 957 | -23 | 953 | -15 |
| 09 | 968 | -24 | 956 | -20 | 956 | -15 |
| 12 | 967 | -22 | 954 | -20 | 960 | -14 |
| 15 | 966 | -22 | 951 | -19 | 965 | -14 |
| 18 | 964 | -20 | 949 | -18 | 967 | -14 |
| 21 | 962 | -21 | 948 | -15 | 971 | -14 |
|  |  | day 22 |  | DAY 23 |  | DAY 24 |
| 00 | 973 | -17 | 961 | -20 | 964 | -25 |
| 03 | 973 | -17 | 960 | -20 | 965 | -25 |
| 06 | 972 | -19 | 959 | -20 | 967 | -25 |
| 09 | 971 | -20 | 959 | -20 | 967 | -25 |
| 12 | 971 | -20 | 960 | -21 | 968 | -25 |
| 15 | 970 | -21 | 960 | -23 | 968 | -23 |
| 18 | 968 | -20 | 961 | -24 | 969 | -22 |
| 21 | 964 | -19 | 962 | -24 | 971 | -22 |
|  |  | DAY 29 |  | DAY 30 |  | DAY 31 |
| 00 | 959 | -19 | 952 | -13 | 964 | -18 |
| 03 | 960 | -19 | 952 | -16 | 967 | -19 |
| 06 | 962 | -16 | 954 | -15 | 968 | -20 |
| 09 | 964 | -13 | 955 | -15 | 969 | -20 |
| 12 | 964 | -13 | 956 | -13 | 971 | -20 |
| 15 | 962 | -13 | 958 | -14 | 972 | -20 |
| 18 | 957 | -12 | 960 | -15 | 972 | -20 |
| 21 | 954 | -15 | 963 | -16 | 974 | -18 |



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-20.0$ Std dev $=3.7$ MAX $=-11.2$ at 1740 GMt on day 29 min $=-28.5$ at 1650 GMt on day 13
* theta (K) * MEAN $=255.54$
* PRESSURE (MB) * MEAN $=968.0$ STD DEV $=7.9$ MAX $=989.6$ AT 730 GMT ON DAY 27 MIN $=947.8$ AT 2050 GMT ON DAY 16

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
 PERCENT:
Wind direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-16.9$ Std dev $=4.4$ max $=-4.2$ at 1510 GMT ON DAY 21 MIN $=-25.0$ at 910 GMT ON DAY 18
* theta (K) * MEAN $=257.94$
* PRESSURE (MB) * MEAN $=977.4$ STD DEV $=11.0$ mAX $=1001.0$ AT 1240 GMT ON DAY 22 MIN $=943.0$ AT 310 GMT ON DAY 19 * WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ fROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=$ ***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ UINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 $12-14$ 14-16 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W UNW NH NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

JUL 97
HR PP TT VV DD PP TT VV DD PP TT VV


* TEMPERATURE (C) * MEAN $=-22.6$ STD DEV $=4.3$ MAX $=1.1$ AT 2230 GMT ON DAY 29 MIN $=-31.0$ AT 730 GMT ON DAY 3
* theta (K) * MEAN $=252.44$
* PRESSURE (MB) * MEAN $=973.7$ STD DEV $=8.2$ mAX $=989.4$ AT 810 GMT ON DAY 13 MIN $=946.8$ at 1250 GMT ON DAY 11

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $1.6 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

AUG 97


LaT : 71.89S

| PP | TT W | DD |
| :--- | :--- | :--- |
| DAY | 4 |  |


$961-28$
$956-28$

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958-26
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960-24
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962-25
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967-26
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971-26
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973-27
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\begin{gathered}
\text { DAY } 11 \\
958-25
\end{gathered}
$$

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957-26
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956-25
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956-23
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958-20
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962-21
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962-20
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$$
\begin{gathered}
965-20 \\
\text { DAY } 18
\end{gathered}
$$

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978-25
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978-25
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978-26
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978-27
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976-26
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975-23
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973-27
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971-26
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\text { DAY } 25
$$

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978-26
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979-26
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980-26
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981-27
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982-29
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982-29
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982-28
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983-28
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MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-25.4$ Std dev $=2.9$ MAX $=-16.4$ AT 310 GMT ON DAY 15 MIN $=-33.5$ AT 40 GMT ON dAY 7
* theta (K) * MEAN = 249.89
* PRESSURE (MB) * MEAN $=970.6$ STD DEV $=7.4$ MAX $=987.3$ at 940 GMT ON DAY 1 MIN $=950.2$ AT 450 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-hourly observations * temperature: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ $\begin{array}{llllllllllllllllllllllll} \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S $\quad S$ SSW
PERCENT $\begin{array}{llllllllllllllrrr}0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


* TEMPERATURE (C) * MEAN $=-18.4$ STD DEV $=5.4$ MAX $=-4.6$ AT 2220 GMT ON DAY 26 MIN $=-32.9$ AT 1730 GMT ON DAY 16
* THETA (K) * MEAN $=256.86$
* PRESSURE (MB) * MEAN $=972.4$ STD DEV $=7.6$ MAX $=987.6$ AT 950 GMT ON DAY 3 MIN $=940.8$ AT 210 GMT ON DAY 5
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.7 \%$ PRESSURE: $1.7 \%$ WINDS: $100.0 \%$
 PERCENT:
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

OCT 97

| HR | PP |  | DD | PP |  |  | DD |  | Tt WV |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY 1 |  |  | DAY | 2 |  |  | day 3 |
| 00 | 973 | -16 |  | 970 | -11 |  |  |  |  |
| 03 | 972 | -15 |  | 970 | -10 |  |  |  |  |
| 06 | 972 | -16 |  | 969 | -11 |  |  | 965 | -10 |
| 09 | 972 | -20 |  | 967 | -10 |  |  | 967 | -12 |
| 12 | 971 | -18 |  | 966 | -13 |  |  | 968 | -12 |
| 15 | 970 | -15 |  | 965 | -13 |  |  | 969 | -12 |
| 18 | 971 | -14 |  | 964 | -13 |  |  | 970 | -11 |
| 21 | 970 | -13 |  | 964 | -10 |  |  | 971 | -8 |
|  |  | DAY 8 |  |  | DAY | 9 |  |  | DAY 10 |
| 00 | 973 | -10 |  | 974 | -8 |  |  |  |  |
| 03 | 975 | -10 |  | 973 | -8 |  |  | 971 | -12 |
| 06 | 975 | -9 |  | 973 | -9 |  |  | 970 | -11 |
| 09 | 976 | -9 |  | 972 | -10 |  |  | 969 | -14 |
| 12 | 976 | -9 |  | 972 | -10 |  |  | 969 | -15 |
| 15 | 977 | -9 |  | 972 | -12 |  |  | 970 | -15 |
| 18 | 976 | -9 |  | 971 | -12 |  |  | 970 | -14 |
| 21 | 975 | -9 |  | 971 | -12 |  |  | 969 | -10 |
|  |  | DAY 15 |  |  | DAY | 16 |  |  | DAY 17 |
| 00 | 980 | -9 |  | 980 | -9 |  |  | 977 | -10 |
| 03 | 981 | -9 |  | 979 | -10 |  |  | 977 | -10 |
| 06 | 982 | -10 |  | 978 | -10 |  |  | 977 | -10 |
| 09 | 982 | -10 |  | 978 | -10 |  |  | 978 | -11 |
| 12 | 983 | -11 |  | 978 | -10 |  |  | 977 | -11 |
| 15 | 982 | -10 |  | 977 | -11 |  |  | 977 | -12 |
| 18 | 981 | $-10$ |  | 977 | -11 |  |  | 977 | -12 |
| 21 | 981 | -10 |  | 977 | -10 |  |  | 977 | -11 |
|  |  | OAY 22 |  |  |  | 23 |  |  | DAY 24 |
| 00 | 957 | -15 |  | 946 | -12 |  |  |  |  |
| 03 | 955 | $-14$ |  | 946 | -11 |  |  |  |  |
| 06 | 954 | -15 |  | 947 | $-10$ |  |  | 949 | -7 |
| 09 | 953 | -16 |  | 945 | -9 |  |  | 955 | -10 |
| 12 | 951 | -16 |  | 943 | -8 |  |  | 957 | -10 |
| 15 | 950 | -16 |  | 942 | -7 |  |  | 958 | -9 |
| 18 | 947 | -13 |  | 941 | -7 |  |  | 959 | -8 |
| 21 | 946 | -12 |  |  |  |  |  |  |  |
|  |  | DAY 29 |  |  | DAY |  |  |  | DAY 31 |
| 00 |  |  |  | 956 | -10 |  |  | 971 | -5 |
| 03 | 971 | -4 |  | 954 | -11 |  |  | 971 | -7 |
| 06 | 971 | -6 |  | 956 | -11 |  |  |  |  |
| 09 | 970 | -8 |  | 959 | -11 |  |  | 968 | -10 |
| 12 | 968 | -9 |  | 962 | -12 |  |  | 967 | -11 |
| 15 | 965 | -10 |  | 965 | -12 |  |  | 966 | -11 |
| 18 | 962 | -11 |  | 968 | -10 |  |  | 965 | -10 |
| 21 | 958 | -10 |  | 970 | -8 |  |  | 964 | -8 |


| PP |  | DD | PP |  |  | DD | PP |  | DD |  | TT WV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 4 |  |  | DAY | 5 |  |  | DAY 6 |  |  | DAY 7 |  |
|  |  |  | 972 | -10 |  |  | 969 | -9 |  |  |  |  |
| 973 | -9 |  | 971 | -9 |  |  | 969 | -9 |  |  |  |  |
| 974 | -10 |  | 970 | -10 |  |  | 969 | -9 |  | 972 | -6 |  |
| 974 | -11 |  | 969 | -11 |  |  | 970 | -10 |  | 974 | -8 |  |
| 974 | -12 |  | 969 | -11 |  |  | 970 | -10 |  | 974 | -8 |  |
| 974 | -13 |  | 968 | -11 |  |  | 971 | -10 |  | 974 | -8 |  |
| 973 | -13 |  | 968 | -11 |  |  | 971 | -9 |  | 973 | -9 |  |
| 972 | -13 |  | 968 | -10 |  |  | 971 | -8 |  | 972 | -9 |  |
|  | DAY 11 |  |  | DAY |  |  |  | DAY 13 |  |  | DAY 14 |  |
| 969 | -7 |  |  |  |  |  |  |  |  | 970 | -3 |  |
| 969 | -7 |  | 974 | -7 |  |  |  |  |  | 970 | -4 |  |
| 970 | -8 |  | 974 | -7 |  |  |  |  |  | 971 | -7 |  |
| 972 | -14 |  | 974 | -11 |  |  | 971 | -6 |  | 973 | -9 |  |
| 973 | -9 |  | 973 | -9 |  |  | 971 | -7 |  | 975 | -9 |  |
| 973 | -10 |  | 972 | -11 |  |  | 971 | -8 |  | 976 | -9 |  |
| 974 | -11 |  | 971 | -10 |  |  | 971 | -8 |  | 977 | -10 |  |
| 974 | -8 |  | 971 | -8 |  |  | 970 | -6 |  | 979 | -9 |  |
|  | DAY 18 |  |  | DAY |  |  |  | DAY 20 |  |  | DAY 21 |  |
| 977 | -10 |  |  |  |  |  | 974 | -16 |  | 963 | -17 |  |
|  |  |  | 977 | -10 |  |  | 971 | -16 |  | 962 | -17 |  |
| 976 | -11 |  | 977 | -12 |  |  | 969 | -16 |  | 961 | -16 |  |
| 976 | -13 |  | 977 | -13 |  |  | 967 | -16 |  | 961 | -19 |  |
| 976 | -14 |  | 977 | -14 |  |  | 966 | -17 |  | 959 | -19 |  |
| 976 | -15 |  | 977 | -15 |  |  | 965 | -17 |  | 958 | -20 |  |
| 976 | $-13$ |  | 977 | -15 |  |  | 964 | -18 |  | 958 | -19 |  |
| 976 | -11 |  | 976 | -15 | . |  | 963 | -17 |  | 958 | -17 |  |
|  | DAY 25 |  |  | DAY | 26 |  |  | DAY 27 |  |  | DAY 28 |  |
|  |  |  | 968 | -2 |  |  | 955 | -10 |  | 967 | -4 |  |
|  |  |  | 967 | -1 |  |  | 954 | -10 |  | 966 | -3 |  |
| 963 | -7 |  | 966 | -3 |  |  | 955 | -9 |  |  |  |  |
| 965 | -7 |  | 964 | -7 |  |  | 958 | -9 |  | 966 | -7 |  |
| 965 | -7 |  | 963 | -9 |  |  | 960 | -8 |  | 967 | -10 |  |
| 967 | -7 |  | 961 | -10 |  |  | 962 | -9 |  | 969 | -11 |  |
| 968 | -6 |  | 959 | -9 |  |  | 964 | -8 |  | 970 | -10 |  |
| 968 | -6 |  | 957 | $-10$ |  |  | 966 | -7 |  | 971 | -6 |  |

* temperature ( $C$ ) * mean $=-10.5$ Std dev $=3.3$ max $=-0.5$ at 300 GMt on day 26 min $=-20.6$ at 1020 gmt on day 1
* theta (K) * MEAN $=265.09$
* PRESSURE (MB) * MEAN $=968.5$ STD DEV $=8.2$ MAX $=982.8$ at 1040 GMT ON DAY 15 MIN $=941.0$ at 1830 GMt ON DAY 23 * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $8.5 \%$ PRESSURE: $8.5 \%$ WINDS: $100.0 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$


| PP | $T T V V$ | $D D$ |  |
| :--- | :--- | :--- | :--- |
|  | DAY | 3 |  |
| 962 | -9 |  |  |

## 962-9

960-13
960-14
959-14
960-14
961-13
DAY 10

PP TT VV DD DAY 4

\[

\]

| DAY 17 |  |  |
| :--- | :--- | :---: |
| 978 | 1 |  |
| 977 | 2 |  |
| 976 | 0 |  |


|  | DAY 18 |
| :---: | :---: |
| 975 | 1 |
| 976 | 1 |
| 976 | 3 |
| 976 | 1 |
| 976 | -1 |
| 977 | -2 |
| 979 | 1 |
|  | DAY 25 |
| 989 | 0 |
| 989 | 0 |
| 989 | 0 |
| 990 | 0 |
| 990 | -1 |
| 990 | -1 |
| 990 | -1 |


| PP | TT VV | DD |
| :--- | ---: | :--- |
| DAY | 5 |  |


| PP | TT VV | DD |
| :---: | :---: | :---: |
| DAY | 6 |  |
| 965 | -4 |  |

$$
\begin{array}{ccc}
\text { PP } \begin{array}{rrr}
\text { TT } & V V & D D \\
\text { DAY } & 7 &
\end{array} .
\end{array}
$$

957 -3
958-3
$959-2$
$961-4$
970-6
$972-6$
$964-3$
DAY 12

| DAY 13 |  |  |
| :--- | :--- | :--- |
| 976 | -3 |  |
| 975 | -3 |  |
| 974 | -3 |  |
|  |  |  |
| 974 | -5 |  |
| 975 | -6 |  |

DAY 14 $976-3$
$977-3$

977 -5
$977-6$
$976-6$
$976-5$

|  | DAY 19 |  | DAY 20 |  | DAY 21 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 980 |  | 984 |  | 984 | 3 |
| 981 |  | 983 |  | 985 | 2 |
| 981 |  | 983 | 2 | 985 | 2 |
| 982 | 1 |  |  | 985 | 2 |
| 983 | -3 |  |  | 984 | 1 |
| 984 | -2 |  |  | 985 | 0 |
| 983 | -1 | 983 | 1 | 986 | 0 |
| 983 |  | 983 | 1 | 988 | -1 |
|  | DAY 26 |  | day 27 |  | DAY 28 |
| 990 | -1 | 986 | 0 | 979 | 0 |
| 989 | -1 | 985 | 0 | 978 | 1 |
| 988 | -1 | 985 | -1 | 977 | 0 |
| 987 | -1 | 984 | -1 | 976 | -2 |
| 987 | -1 | 981 | -1 |  |  |
| 987 | -1 | 980 | 0 | 978 | -1 |

$994 \quad-2$

$989 \quad 0$
9870
$985 \begin{gathered}1 \\ \text { DAY } 22\end{gathered}$
009893
$\begin{array}{lll}03 & 988 & 1\end{array}$
069872
$987 \quad 0$

| 12 | 986 | 2 | 975 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}15 & 985 & 2 & 974 & -2\end{array}$
$\begin{array}{lll}18 & 984 & -1\end{array}$
19841

|  | DAY 29 |  |  | DAY 30 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 00 | 984 | 6 | 981 | 5 | DAY 31 |  |
| 03 | 983 | 6 | 981 | 7 | 986 | 7 |
| 06 | 983 | 4 | 982 | 5 | 984 | 4 |
| 09 | 982 | 3 | 983 | 4 |  |  |
| 12 |  |  | 983 | 1 |  |  |
| 15 | 981 | 1 | 984 | 1 |  |  |
| 18 | 981 | 1 |  |  | 982 | 2 |
| 21 | 981 | 4 | 985 | 5 |  |  |
|  |  |  |  |  |  |  |

 DAY 3
$988-3$
$989-2$
$990-3$

| PP | TT VV | DD |  |
| :--- | :---: | :---: | :---: |
|  | DAY | 4 |  |
| 993 | 4 |  |  |
| 993 |  |  |  |
| 993 | 2 |  |  |
| 993 | 1 |  |  |



| PP | TT VV | DD |
| :--- | ---: | ---: | ---: |
| DAY | 6 |  |

## PP TTVV DD

 DAY 7 $987-1$ $\begin{array}{ll}988 & -1\end{array}$ $989-1$| 997 | 4 | 989 | 3 | 988 | -1 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 998 | 2 | 987 | 2 | 989 | -1 |

$998 \quad 0$
9861
$996-3$

| 995 | -1 |
| :---: | :---: |
| 996 | 3 |
| DAY |  |
| 982 | 11 |
| 982 | 1 |
| 982 | 1 |
| 982 | -2 |


| 994 | -1 |
| :--- | :--- | :--- |
| 992 | 0 |
| DAY | 12 |

$\begin{array}{ll}986 & -1 \\ 986 & -1\end{array}$

| 986 | -1 |
| :--- | :--- |
| DAY 13 |  |
| 977 | 0 |
| 976 | 2 |
| 975 | 1 |
| 975 | 0 |

9940

$$
\text { DAY } 14
$$

9735
9735
9734
9730
$974-1$
978 -2

| 978 | -1 | 974 | 0 | 977 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- |

$977 \quad 1 \quad 974 \quad 2 \quad 980 \quad 1$
DAY $19 \quad$ DAY 20

| 979 | -1 | 983 | -1 |
| ---: | ---: | ---: | ---: |
| 985 | 2 |  |  |


| 979 | -1 | 987 | -1 |
| :--- | :--- | :--- | :--- |



* temperature ( $C$ ) * mean $=1.2$ Std dev $=2.4$ max $=7.5$ at 310 gmt on day 27 min $=-3.6$ at 1420 GMt on day 10
* theta (K) * MEAN $=275.68$
* PRESSURE (MB) * MEAN $=983.9$ STD DEV $=5.7$ MAX $=997.9$ AT 720 GMT ON DAY 5 MIN $=972.4$ AT 720 GMT ON DAY 14
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $36.7 \%$ PRESSURE: $36.3 \%$ WINDS: $100.0 \%$

WIND SPEED (M/S): 0-2 $2-4$ 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

JAN 97
HR PP TT VV DD PP TT VV DD PP TT VV DD

|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 699 | -22 | 3 | 4 | 700 | -23 | 5 | 32 | 698 | -22 | 5 | 46 |
| 03 | 699 | -23 | 3 | 42 | 700 | -23 | 5 | 30 | 697 | -22 | 4 | 49 |
| 06 | 699 | -22 | 3 | 26 | 700 | -23 | 5 | 30 | 697 | -23 | 6 | 37 |
| 09 | 700 | -23 | 3 | 9 | 700 | -23 | 5 | 28 | 697 | -23 | 7 | 25 |
| 12 | 700 | -21 | 4 | 28 | 700 | -23 | 5 | 39 | 697 | -23 | 8 | 30 |
| 15 | 700 | -21 | 4 | 32 | 699 | -21 | 4 | 56 | 696 | -24 | 7 | 26 |
| 18 | 700 | -21 | 5 | 28 | 699 | -21 | 5 | 57 | 696 | -23 | 7 | 2 |
| 21 | 700 | -22 | 5 | 37 | 698 | -21 | 4 | 47 | 696 | -22 | 8 | 8 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 690 | -21 | 6 | 348 | 698 | -21 | 2 | 219 | 701 | -25 | 4 | 35 |
| 03 | 691 | -21 | 5 | 345 | 698 | -23 | 2 | 127 | 701 | -24 | 3 | 32 |
| 06 | 692 | -21 | 6 | 309 | 699 | -22 | 2 | 42 | 701 | -23 | 3 | 71 |
| 09 | 693 | -22 | 4 | 316 | 700 | -21 | 3 | 61 | 701 | -25 | 3 | 101 |
| 12 | 694 | -22 | 7 | 331 | 700 | -22 | 4 | 53 | 700 | -25 | 2 | 120 |
| 15 | 695 | -21 | 4 | 338 | 700 | -23 | 3 | 42 | 700 | -25 | 4 | 111 |
| 18 | 696 | -22 | 3 | 271 | 700 | -23 | 4 | 32 | 699 | -25 | 3 | 120 |
| 21 | 697 | -18 | 2 | 309 | 701 | -24 | 5 | 30 | 699 | -26 | 4 | 123 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 7 |  |
| 00 | 700 | -26 | 5 | 54 | 697 | -28 | 5 | 90 | 698 | -24 | 3 | 330 |
| 03 | 699 | -26 | 6 | 36 | 697 | -28 | 5 | 82 | 699 | -24 | 2 | 322 |
| 06 | 699 | -26 | 6 | 35 | 696 | -28 | 5 | 80 | 700 | -26 | 4 | 333 |
| 09 | 699 | -26 | 6 | 29 | 696 | -28 | 5 | 74 | 701 | -25 | 3 | 9 |
| 12 | 699 | -26 | 6 | 29 | 696 | -28 | 4 | 75 | 702 | -28 | 4 | 29 |
| 15 | 699 | -25 | 5 | 57 | 696 | -26 | 4 | 67 | 702 | -26 | 2 | 54 |
| 18 | 698 | -25 | 5 | 81 | 696 | -26 | 4 | 47 | 702 | -26 | 3 | 29 |
| 21 | 698 | -27 | 6 | 91 | 697 | -24 | 3 | 29 | 703 | -28 | 2 | 98 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 4 |  |
| 00 | 702 | -29 | 5 | 42 | 699 | -31 | 3 | 74 | 701 | -30 | 2 | 32 |
| 03 | 702 | -29 | 4 | 42 | 699 | -30 | 3 | 74 | 701 | -30 | 2 | 22 |
| 06 | 702 | -29 | 4 | 77 | 699 | -30 | 4 | 25 | 701 | -31 | 3 | 32 |
| 09 | 701 | $-30$ | 4 | 112 | 700 | -30 | 3 | 358 | 700 | -32 | 3 | 40 |
| 12 | 701 | -31 | 4 | 94 | 701 | -27 | 1 | 282 | 700 | -32 | 2 | 60 |
| 15 | 700 | -30 | 3 | 92 | 701 | -27 | 2 | 28 | 700 | -32 | 4 | 59 |
| 18 | 700 | -29 | 4 | 81 | 701 | -29 | 3 | 21 | 699 | -32 | 5 | 59 |
| 21 | 699 | -30 | 4 | 84 | 701 | -30 | 2 | 23 | 698 | -30 | 7 | 50 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 1 |  |
| 00 | 695 | -33 | 3 | 146 | 696 | -34 | 3 | 75 | 699 | -36 | 3 | 139 |
| 03 | 694 | -34 | 3 | 143 | 697 | -34 | 1 | 111 | 698 | -36 | 3 | 137 |
| 06 | 694 | -33 | 2 | 133 | 697 | -34 | 2 | 136 | 697 | -36 | 3 | 133 |
| 09 | 694 | -33 | 2 | 116 | 698 | -34 | 3 | 147 | 697 | -35 | 3 | 108 |
| 12 | 694 | -35 | 1 | 98 | 698 | -36 | 2 | 139 | 696 | -36 | 3 | 112 |
| 15 | 694 | -33 | 1 | 88 | 698 | -35 | 3 | 133 | 696 | -35 | 3 | 120 |
| 18 | 695 | -32 | 2 | 56 | 699 | -35 | 3 | 127 | 696 | -34 | 1 | 101 |
| 21 | 696 | -34 | 2 | 97 | 699 | -35 | 3 | 133 | 696 | -35 | 3 | 111 |


| PP |  |  | DD ${ }^{\circ}$ | PP |  |  | DD |  |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 696 | -21 | 8 | 12 | 695 | -21 | 7 | 12 | 693 | -23 | 4 | 102 | 688 | -22 | 6 | 32 |
| 696 | -22 | 7 | 15 | 694 | -22 | 6 | 19 | 692 | -24 | 5 | 113 | 688 | -21 | 5 | 11 |
| 696 | -21 | 8 | 22 | 694 | -20 | 6 | 40 | 691 | -24 | 5 | 99 | 688 | -22 | 5 | 1 |
| 695 | -20 | 7 | 8 | 694 | -20 | 5 | 28 | 690 | -23 | 4 | 87 | 688 | -22 | 5 | 357 |
| 695 | -20 | 5 | 1 | 694 | -20 | 4 | 28 | 689 | -23 | 5 | 73 | 688 | -21 | 2 | 54 |
| 695 | -18 | 7 | 358 | 694 | -20 | 6 | 33 | 688 | -22 | 5 | 60 | 688 | -21 | 3 | 36 |
| 695 | -19 | 8 | 4 | 694 | -21 | 5 | 46 | 688 | -21 | 6 | 56 | 689 | -21 | 4 | 33 |
| 695 | -20 | 8 | 11 | 694 | -22 | 3 | 81 | 688 | -22 | 5 | 53 | 689 | -20 | 5 | 4 |
|  | day | 11 |  |  | DAY | 12 |  |  | day | 13 |  |  | DAY | 14 |  |
| 699 | -26 | 4 | 120 | 699 | -26 | 3 | 144 | 701 | -26 | 3 | 80 | 700 | -25 | 1 | 80 |
| 699 | -27 | 4 | 136 | 699 | -26 | 4 | 135 | 701 | -27 | 3 | 97 | 700 | -27 | 3 | 75 |
| 699 | -26 | 3 | 126 | 699 | -26 | 3 | 119 | 701 | -27 | 3 | 105 | 700 | -27 | 2 | 113 |
| 699 | -26 | 3 | 147 | 700 | -25 | 2 | 105 | 700 | -27 | 3 | 105 | 700 | -26 | 4 | 43 |
| 699 | -26 | 3 | 133 | 700 | -26 | 3 | 104 | 700 | -27 | 2 | 80 | 700 | -27 | 4 | 59 |
| 698 | -25 | 2 | 129 | 700 | -25 | 2 | 106 | 700 | -24 | 2 | 70 | 700 | -26 | 4 | 71 |
| 699 | -26 | 3 | 129 | 701 | -25 | 2 | 123 | 700 | -24 | 1 | 113 | 700 | -24 | 6 | 67 |
| 699 | -26 | 4 | 127 | 701 | -25 | 3 | 129 | 700 | -27 | 3 | 37 | 700 | -25 | 6 | 54 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 703 | -26 | 3 | 71 | 701 | -29 | 3 | 108 | 700 | -28 | 5 | 71 | 701 | -29 | 4 | 32 |
| 703 | -26 | 4 | 45 | 700 | -29 | 3 | 116 | 700 | -28 | 5 | 54 | 701 | -29 | 5 | 23 |
| 703 | -25 | 4 | 57 | 699 | -30 | 3 | 101 | 700 | -28 | 6 | 43 | 701 | -28 | 3 | 36 |
| 703 | -25 | 5 | 71 | 699 | -29 | 4 | 92 | 701 | -28 | 7 | 42 | 702 | -26 | 5 | 1 |
| 703 | -28 | 4 | 98 | 699 | -30 | 4 | 77 | 701 | -28 | 7 | 35 | 702 | -26 | 5 | 7 |
| 702 | -28 | 4 | 92 | 699 | -28 | 5 | 70 | 701 | -28 | 5 | 40 | 702 | -26 | 4 | 23 |
| 702 | -28 | 3 | 87 | 699 | -28 | 4 | 64 | 701 | -27 | 5 | 40 | 702 | -27 | 5 | 18 |
| 702 | -28 | 3 | 90 | 700 | -28 | 5 | 71 | 701 | -28 | 5 | 45 | 702 | -29 | 5 | 36 |
|  | DAY | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 698 | -29 | 6 | 39 | 697 | -24 | 5 | 329 | 699 | -24 | 2 | 358 | 699 | -33 | 4 | 111 |
| 698 | -29 | 6 | 21 | 698 | -24 | 3 | 344 | 699 | -24 | 2 | 9 | 699 | -32 | 3 | 151 |
| 698 | -29 | 7 | 32 | 698 | -25 | 3 | 1 | 699 | -25 | 2 | 35 | 698 | -33 | 4 | 122 |
| 697 | -28 | 6 | 33 | 698 | -25 |  | 352 | 699 | -26 | 2 | 39 | 697 | -32 | 4 | 135 |
| 697 | -28 | 10 | 35 | 698 | -25 | 6 | 2 | 700 | -28 | 2 | 67 | 697 | -33 | 4 | 125 |
| 696 | -26 | 8 | 9 | 698 | -24 |  | 351 | 700 | -29 | 2 | 82 | 696 | -32 | 4 | 120 |
| 696 | -25 |  | 358 | 698 | -25 |  | 355 | 700 | -30 | 3 | 94 | 695 | -32 | 3 | 129 |
| 697 | -24 | 3 | 12 | 698 | -26 |  | 352 | 700 | -31 | 2 | 123 | 695 | -33 | 3 | 133 |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-26.3$ STD DEV $=4.2$ MAX $=-17.4$ AT 2040 GMT ON DAY 8 MIN $=-36.2$ AT 1200 GMT ON DAY 31
* theta (K) * MEAN $=273.56$
* PRESSURE (MB) * MEAN $=697.9$ STD DEV $=3.3$ MAX $=703.1$ AT 820 GMT ON DAY 18 MIN $=687.5$ AT 2310 GMT ON DAY 6
* WINDS (M/S) * MEAN $=4.0$ STD DEV $=1.6$ RESULTANT $=2.9$ FROM 49. CONSTANCY $=0.73$ MAX $=10.3$ FROM 33 . AT 1250 GMT DAY 3
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 10 & 46 & 31 & 9 & 3 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { USW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$


FEB 97

| HR | PP | TT | vv | DD | PP |  | vv | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | day | 3 |  |
| 00 | 695 | -36 | 4 | 104 | 700 | -36 | 4 | 39 | 705 | -36 | 3 | 64 |
| 03 | 695 | -36 | 3 | 102 | 701 | -37 | 3 | 33 |  |  |  |  |
| 06 | 695 | -36 | 3 | 94 | 702 | -37 | 2 | 28 | 704 | -37 | 3 | 56 |
| 09 | 696 | -35 | 4 | 81 | 704 | -35 | 2 | 11 | 704 | -37 | 4 | 47 |
| 12 | 696 | -35 | 3 | 66 |  |  |  |  | 704 | -38 | 2 | 87 |
| 15 | 697 | -34 | 3 | 56 | 705 | -36 | 3 | 43 | 703 | -38 | 3 | 84 |
| 18 |  |  |  |  | 705 | -35 | 2 | 57 | 702 | -37 | 3 | 82 |
| 21 | 699 | -35 | 3 | 33 | 705 | -37 | 3 | 61 | 701 | -37 | 3 | 119 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 698 | -38 | 4 | 45 | 691 | -35 | 6 | 66 | 690 | -32 | 4 | 12 |
| 03 | 698 | -38 | 6 | 45 | 690 | -36 | 5 | 81 | 691 | -35 | 4 | 19 |
| 06 | 697 | -35 | 5 | 46 | 690 | -35 | 6 | 66 | 692 | -34 | 6 | 360 |
| 09 | 697 | -35 | 6 | 66 | 689 | -34 | 7 | 56 | 693 | -33 | 6 | 336 |
| 12 | 696 | -36 | 5 | 73 | 689 | -35 | 7 | 56 | 694 | -37 | 4 | 350 |
| 15 | 695 | -34 | 5 | 67 | 689 | -32 | 7 | 37 | 695 | -37 | 3 | 360 |
| 18 | 694 | -36 | 6 | 88 | 689 | -31 | 6 | 29 | 696 | -37 | 2 | 33 |
| 21 | 692 | -35 | 5 | 71 | 690 | -32 | 4 | 33 | 697 | -38 | 3 | 37 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 692 | -40 | 4 | 30 | 691 | -39 | 5 | 50 | 689 | -43 | 2 | 15 |
| 03 | 692 | -41 | 3 | 36 | 690 | -39 | 6 | 37 | 688 | -44 | 2 | 125 |
| 06 | 693 | -41 | 4 | 43 | 690 | -40 | 4 | 49 | 688 | -44 | 2 | 136 |
| 09 | 693 | -40 | 4 | 54 | 690 | -41 | 5 | 42 | 689 | -44 | 2 | 146 |
| 12 | 692 | -39 | 7 | 53 | 690 | -41 | 5 | 47 | 689 | -46 | 2 | 139 |
| 15 | 691 | -38 | 7 | 49 | 689 | -40 | 3 | 54 | 689 | -41 | 1 | 119 |
| 18 | 691 | -38 | 6 | 43 | 689 | -41 | 3 | 75 | 689 | -45 | 2 | 28 |
| 21 | 691 | -39 | 7 | 36 | 689 | -41 | 3 | 78 | 689 | -46 | 3 | 36 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 687 | -47 | 6 | 39 | 689 | -44 | 4 | 26 | 689 | -39 | 8 | 54 |
| 03 | 687 | -46 | 7 | 46 | 690 | -45 | 4 | 49 | 688 | -39 | 10 | 43 |
| 06 | 687 | -45 | 5 | 53 | 690 | -45 | 5 | 42 | 688 | -40 | 8 | 53 |
| 09 | 687 | -42 | 5 | 45 | 690 | -46 | 3 | 98 | 688 | -40 | 9 | 40 |
| 12 | 687 | -42 | 5 | 50 | 690 | -43 | 5 | 68 | 688 | -39 | 8 | 37 |
| 15 | 687 | -40 | 5 | 53 | 689 | -42 | 6 | 67 | 688 | -38 | 10 | 52 |
| 18 | 687 | -40 | 4 | 47 | 689 | -41 | 5 | 67 | 688 | -39 | 6 | 68 |
| 21 | 688 | -43 | 4 | 28 | 689 | -41 | 6 | 56 | 688 | -41 | 6 | 74 |


| PP |  | VV | DD | PP |  | V | DD | PP |  | VV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 700 | -38 | 4 | 123 | 703 | -38 | 2 | 87 | 701 | -37 | 4 | 129 | 695 | -37 | 4 | 119 |
| 699 | -39 | 5 | 116 | 703 | -38 | 2 | 77 | 700 | -37 | 4 | 109 | 694 | -37 | 4 | 109 |
| 698 | -38 | 5 | 122 | 704 | -39 | 2 | 82 | 699 | -36 | 4 | 133 | 695 | -37 | 3 | 102 |
| 698 | -38 | 5 | 116 | 704 | -38 | 3 | 80 | 698 | -35 | 4 | 113 | 695 | -38 | 2 | 91 |
| 699 | -38 | 5 | 115 | 705 | -39 | 4 | 95 | 697 | -36 | 4 | 125 | 696 | -39 | 2 | 98 |
| 700 | -37 | 4 | 98 | 704 | -38 | 3 | 94 | 696 | -35 | 4 | 127 | 696 | -38 | 3 | 46 |
| 700 | -37 | 2 | 95 | 703 | -37 | 3 | 111 | 695 | -36 | 6 | 115 | 697 | -38 | 4 | 52 |
| 702 | -37 | 3 | 87 | 702 | -37 | 4 | 109 | 695 | -36 | 6 | 122 | 698 | -38 | 4 | 77 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 697 | -39 | 3 | 39 | 700 | -39 | 6 | 33 | 695 | -37 | 6 | 25 | 692 | -36 | 6 | 39 |
| 698 | -39 | 4 | 12 | 699 | -38 | 8 | 26 | 695 | -37 | 6 | 37 | 691 | -37 | 8 | 42 |
| 698 | -39 | 3 | 40 | 699 | -37 | 6 | 39 | 694 | -37 | 6 | 33 | 691 | -37 | 7 | 36 |
| 699 | -40 | 3 | 25 | 698 | -36 | 7 | 35 | 694 | -36 | 7 | 42 | 691 | -37 | 8 | 30 |
| 699 | -40 | 3 | 23 | 698 | -35 | 9 | 32 | 693 | -36 | 7 | 52 | 691 | -37 | 8 | 36 |
| 700 | -38 | 3 | 32 | 697 | -34 | 7 | 26 | 692 | -35 | 6 | 52 | 691 | -38 | 6 | 30 |
| 700 | -39 | 5 | 40 | 696 | -35 | 6 | 32 | 692 | -35 | 9 | 37 | 691 | -38 | 4 | 23 |
| 700 | -39 | 6 | 36 | 696 | -36 | 6 | 32 | 692 | -36 | 7 | 35 | 692 | 39 | 4 | 32 |
|  |  | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  |  | 21 |  |
| 689 | -46 | 3 | 39 | 685 | -47 | 2 | 111 | 683 | -47 | 4 | 95 | 685 | -47 | 6 | 40 |
| 688 | -46 | 3 | 43 | 685 | -47 | 2 | 78 | 682 | -46 | 5 | 94 | 685 | -47 | 6 | 43 |
| 687 | -46 | 3 | 45 | 686 | -48 | 2 | 80 | 682 | -46 | 5 | 91 | 686 | -47 | 4 | 80 |
| 686 | -45 | 3 | 46 | 686 | -48 | 4 | 97 | 682 | -46 | 5 | 75 | 685 | -46 | 5 | 80 |
| 686 | -45 | 3 | 63 | 685 | -49 | 4 | 99 | 682 | -46 | 4 | 73 | 685 | -45 | 6 | 56 |
| 686 | -44 | 3 | 71 | 685 | -48 | 4 | 98 | 683 | -46 | 4 | 53 | 686 | -45 | 8 | 40 |
| 685 | -45 | 2 | 108 | 684 | -47 | 4 | 74 | 683 | -46 | 4 | 37 | 686 | -45 | 6 | 35 |
| 685 | -45 | 2 | 122 | 684 | -47 | 4. | 97 | 684 | -47 | 5 | 36 | 687 | -46 | 7 | 33 |
|  |  | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 687 | -44 | 6 | 81 | 694 | -49 | 5 | 49 | 686 | -50 | 5 | 91 | 681 | -43 | 7 | 37 |
| 687 | -44 | 6 | 78 | 695 | -49 | 4 | 66 | 684 | -50 | 5 | 98 | 681 | -41 | 6 | 33 |
| 687 | -44 | 8 | 63 | 694 | -49 | 5 | 66 | 682 | -49 | 6 | 84 | 681 | -38 | 8 | 33 |
| 688 | -45 | 7 | 61 | 694 | -50 | 6 | 80 | 681 | -46 | 5 | 74 | 681 | -39 | 7 | 36 |
| 689 | -46 | 6 | 52 | 693 | -49 | 6 | 78 | 681 | -47 | 5 | 47 | 681 | -38 | 6 | 32 |
| 691 | -47 | 6 | 29 | 691 | -49 | 4 | 87 | 681 | -45 | 6 | 47 | 681 | -38 | 7 | 32 |
| 693 | -47 | 5 | 32 | 690 | -50 | 5 | 94 | 681 | -45 | 8 | 56 | 682 | -39 | 6 | 29 |
| 694 | -48 | 6 | 33 | 688 | -50 | 5 | 88 | 681 | -44 | 6 | 49 | 682 | -41 | 4 | 29 |

* TEMPERATURE ( $C$ ) * MEAN $=-40.3$ STD DEV $=4.6$ MAX $=-30.9$ AT 1650 GMT ON DAY 9 MIN $=-50.5$ AT 2200 GMt ON DAY 26
* theta (K) * MEAN $=258.70$
* PRESSURE (MB) * MEAN $=692.0$ STD DEV $=6.4$ MAX $=705.4$ AT 1930 GMT ON DAY 2 MIN $=680.6$ AT 2130 GMT ON DAY 27
* WINDS (M/S) * MEAN $=4.7 \mathrm{STD}$ DEV $=1.8$ RESULTANT $=4.1$ FROM 56 . CONSTANCY $=0.88$ MAX $=10.9$ FROM 53 . AT 1400 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW PERCENT

* TEMPERATURE (C) * MEAN $=-52.2$ STD DEV $=5.9$ MAX $=-39.5$ AT 630 GMT ON DAY 12 MIN $=-64.5$ AT 1750 GMT ON DAY 26
* THETA (K) * MEAN $=246.29$
* PRESSURE (MB) * MEAN $=683.8$ STD DEV $=4.2$ MAX $=694.3$ AT 2240 GMT ON DAY 21 MIN $=675.0$ AT 1720 GMT ON DAY 12 * WINDS (M/S) * MEAN $=5.1$ STD DEV $=1.9$ RESULTANT $=4.7$ FROM 54. CONSTANCY $=0.93$ MAX $=11.3$ FROM 32 . AT 540 GMT DAY 12 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 PERCENT

| HR | PP | TT VV |  |
| :--- | :--- | ---: | :--- |
|  |  | DAY | 1 |

$\begin{array}{lllll}00 & 681 & -59 & 6 & 43\end{array}$
$\begin{array}{lllll}03 & 681 & -59 & 6 & 47\end{array}$
$\begin{array}{lllll}06 & 681 & -60 & 5 & 52\end{array}$
$\begin{array}{lllll}09 & 682 & -61 & 6 & 53\end{array}$
$\begin{array}{lllll}12 & 682 & -61 & 6 & 50\end{array}$
$\begin{array}{lllll}15 & 682 & -61 & 6 & 49\end{array}$
$\begin{array}{lllll}18 & 683 & -61 & 7 & 42\end{array}$
$\begin{array}{lllll}21 & 683 & -62 & 5 & 57\end{array}$ DAY 8
$\begin{array}{lllll}00 & 692 & -44 & 4 & 2\end{array}$
$\begin{array}{lllll}03 & 691 & -46 & 3 & 14\end{array}$
$\begin{array}{lllll}06 & 691 & -46 & 4 & 12\end{array}$
$\begin{array}{lllll}09 & 690 & -44 & 3 & 37\end{array}$
$\begin{array}{lllll}12 & 690 & -44 & 3 & 26\end{array}$
$\begin{array}{lllll}15 & 689 & -44 & 4 & 26\end{array}$
$\begin{array}{lllll}18 & 688 & -44 & 3 & 23\end{array}$
$\begin{array}{lllll}21 & 687 & -45 & 4 & 28\end{array}$

$$
\text { DAY } 15
$$

$\begin{array}{lllll}00 & 688 & -58 & 5 & 28\end{array}$
$\begin{array}{lllll}03 & 690 & -60 & 5 & 30\end{array}$
$\begin{array}{lllll}06 & 692 & -59 & 5 & 23\end{array}$
$\begin{array}{lllll}09 & 693 & -59 & 7 & 29\end{array}$
$\begin{array}{lllll}12 & 694 & -59 & 7 & 30\end{array}$
$\begin{array}{lllll}15 & 695 & -59 & 7 & 29\end{array}$
$\begin{array}{lllll}18 & 697 & -58 & 7 & 33\end{array}$
$\begin{array}{lllll}21 & 698 & -59 & 7 & 33\end{array}$
DAY 22
$\begin{array}{lllll}00 & 685 & -52 & 6 & 37\end{array}$
$\begin{array}{lllll}03 & 684 & -53 & 6 & 32\end{array}$
$\begin{array}{lllll}06 & 683 & -54 & 6 & 30\end{array}$
$\begin{array}{lllll}09 & 682 & -55 & 4 & 49\end{array}$
$\begin{array}{lllll}12 & 681 & -58 & 5 & 45\end{array}$
$\begin{array}{lllll}15 & 680 & -59 & 4 & 56\end{array}$
$\begin{array}{lllll}18 & 680 & -61 & 4 & 60\end{array}$
$\begin{array}{lllll}21 & 679 & -63 & 3 & 63\end{array}$

## DAY 29

$\begin{array}{lllll}00 & 681 & -49 & 11 & 23\end{array}$
$\begin{array}{lllll}03 & 681 & -49 & 10 & 28\end{array}$
$\begin{array}{lllll}06 & 682 & -51 & 7 & 15\end{array}$
$\begin{array}{lllll}09 & 684 & -51 & 9 & 8\end{array}$
$\begin{array}{lllll}12 & 686 & -52 & 8 & 11\end{array}$
$\begin{array}{lllllllll}15 & 687 & -54 & 6 & 14 & 690 & -55 & 7 & 22\end{array}$
$\begin{array}{lllllllll}18 & 688 & -55 & 5 & 23 & 690 & -55 & 6 & 18\end{array}$
$\begin{array}{lllllllll}21 & 689 & -55 & 7 & 15 & 690 & -56 & 6 & 25\end{array}$

LAT : 89.01s LONG : 1.03W ELEVATION : 2755 M
$+$
PP TT VV DD
PP TT VV DD PP TT VV DD

PP TT VV DD DAY 7 698-43 4360
697-44 $4 \quad 1$
697-44 6351
$\begin{array}{llll}696 & -45 & 5 & 4\end{array}$
$\begin{array}{llll}695 & -47 & 6 & 4\end{array}$
694-45 5358
693-44 $5 \quad 1$
$693-43 \quad 5358$
DAY 14
$\begin{array}{llll}684 & -58 & 8 & 39\end{array}$
$\begin{array}{llll}683 & -57 & 7 & 25\end{array}$
$\begin{array}{llll}683 & -56 & 9 & 28\end{array}$
$\begin{array}{llll}683 & -55 & 7 & 23\end{array}$
$\begin{array}{llll}684 & -55 & 5 & 35\end{array}$
$\begin{array}{llll}684 & -56 & 7 & 18\end{array}$
$\begin{array}{llll}685 & -57 & 5 & 26\end{array}$
$\begin{array}{llll}686 & -58 \quad 7 \quad 23\end{array}$
DAY 21
$\begin{array}{cccc}693 & -52 & 8 & 30\end{array}$
693-55 $6 \quad 40$
$\begin{array}{llll}692 & -55 \quad 6 \quad 40\end{array}$
$\begin{array}{llll}691 & -52 & 7 & 33\end{array}$
$\begin{array}{llll}690 & -50 & 7 & 21\end{array}$
$\begin{array}{llll}688 & -50 & 9 & 19\end{array}$
$\begin{array}{llll}687 & -51 & 7 & 36\end{array}$
686-50 636
DAY 28
685-56 935
$\begin{array}{llll}684 & -54 & 8 & 46\end{array}$
$\begin{array}{llll}683 & -54 & 7 & 37\end{array}$
$\begin{array}{llll}682 & -53 & 8 & 42\end{array}$
681-50 $10 \quad 32$
$\begin{array}{llll}680 & -49 & 11 & 25\end{array}$
$\begin{array}{llll}680 & -50 & 12 \quad 30\end{array}$
$680-50 \quad 11 \quad 19$

* TEMPERATURE ( $C$ ) * MEAN $=-55.4$ STD DEV $=7.4$ MAX $=-38.6$ AT 1820 GMT ON DAY 6 MIN $=-69.0$ AT 1450 GMT ON DAY 23
* THETA (K) * MEAN $=242.18$
* PRESSURE (MB) * MEAN $=689.5$ STD DEV $=9.4$ MAX $=712.6$ AT 800 GMT ON DAY 18 MIN $=675.2$ AT 2110 GMT ON DAY 23
* WINDS (M/S) * MEAN $=6.3 \mathrm{STD}$ DEV $=2.3$ RESULTANT $=5.8 \mathrm{fROM} 34$. CONSTANCY $=0.92 \mathrm{MAX}=13.5$ FROM 11 . AT 1340 GMT DAY 17 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $3.3 \%$
 PERCENT: $\quad \begin{array}{llllllllllllll}3 & 14 & 31 & 29 & 16 & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW percent

$$
\begin{array}{llllllllllllllll}
10 & 39 & 24 & 19 & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1
\end{array}
$$



* temperature ( $C$ ) * mean $=-57.2$ Std dev $=4.3$ max $=-43.5$ at 2130 GMT ON DAY 14 MIN $=-68.4$ At 130 GMt on day 13
* THETA (K) * MEAN $=240.79$
* PRESSURE (MB) * MEAN $=683.5$ STD DEV $=6.8$ MAX $=695.0$ AT 520 GMT ON DAY 16 MIN $=669.0$ AT 1700 GMT ON DAY 31
* WINDS (M/S) * MEAN $=6.7$ STD DEV $=2.1$ RESULTANT $=6.3$ FROM 39 . CONSTANCY $=0.94$ MAX $=15.4$ FROM 7 . AT 1450 GMT DAY 14
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $14.1 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 1 & 9 & 24 & 41 & 20 & & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT

JUN 97

| Rr |  | DAY | $1$ | Do |
| :---: | :---: | :---: | :---: | :---: |
| 00 | 670 | -62 | 6 | 91 |
| 03 | 670 | -62 | 5 | 88 |
| 06 | 671 | -61 | 5 | 90 |
| 09 | 671 | -61 | 6 | 87 |
| 12 | 672 | -60 | 7 | 85 |
| 15 | 672 | -58 | 6 | 90 |
| 18 | 673 | -55 | 6 | 63 |
| 21 | 675 | -56 | 9 | 53 |
|  |  | DAY | 8 |  |
| 00 | 684 | -51 | 5 | 60 |
| 03 | 684 | -54 | 3 | 81 |
| 06 | 684 | -52 |  |  |
| 09 | 683 | -52 |  |  |
| 12 | 682 | -54 |  |  |
| 15 | 682 | -57 |  |  |
| 18 | 682 | -58 |  |  |
| 21 | 681 | -59 |  |  |

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{llllllll}677 & -57 & 9 & 42 & 689 & -59 & 8 & 40\end{array}$ $\begin{array}{llllllll}679 & -57 & 8 & 57 & 690 & -60 & 7 & 46\end{array}$ $\begin{array}{llllllll}681 & -57 & 6 & 61 & 690 & -60 & 8 & 33\end{array}$ $\begin{array}{llllllll}682 & -56 & 7 & 57 & 691 & -60 & 8 & 42\end{array}$ $\begin{array}{llllllll}684 & -55 & 7 & 47 & 691 & -62 & 6 & 49\end{array}$ $\begin{array}{llllllll}685 & -57 & 6 & 52 & 691 & -62 & 6 & 42\end{array}$ $\begin{array}{llllllll}686 & -57 & 6 & 54 & 691 & -63 & 6 & 60\end{array}$ $\begin{array}{llllllll}688 & -58 & 7 & 40 & 691 & -64 & 5 & 64\end{array}$ DAY 9
$\begin{array}{llll}681 & -61 \quad 4 & 68\end{array}$
$\begin{array}{llll}680 & -63 & 4 & 84\end{array}$ $\begin{array}{llll}680 & -64 & 4 & 71\end{array}$ $\begin{array}{llll}679 & -65 & 5 & 67\end{array}$ $\begin{array}{llllllll}680 & -66 & 5 & 53 & 685 & -56 & 3 & 46\end{array}$ $\begin{array}{llllllll}680 & -65 & 6 & 36 & 685 & -56 & 4 & 82\end{array}$ $\begin{array}{llllllll}681 & -62 & 6 & 37 & 685 & -57 & 3 & 101\end{array}$ $\begin{array}{llllllll}682 & -60 & 7 & 33 & 685 & -56 & 3 & 111\end{array}$ DAY 16
$\begin{array}{lllll}00 & 680 & -62 & 3 & 88\end{array}$
$\begin{array}{lllll}03 & 679 & -58 & 4 & 40\end{array}$
$\begin{array}{lllll}06 & 679 & -59 & 6 & 32\end{array}$
$\begin{array}{llllll}09 & 679 & -60 & 3 & 101\end{array}$
$\begin{array}{lllll}12 & 678 & -60 & 3 & 80\end{array}$
$\begin{array}{lllll}15 & 678 & -64 & 4 & 102\end{array}$
$\begin{array}{lllll}18 & 677 & -67 & 3 & 109\end{array}$
$\begin{array}{lllll}21 & 677 & -68 & 4 & 108\end{array}$

$\begin{array}{lllll}00 & 718 & -47 & 7 & 40\end{array}$
$\begin{array}{lllll}03 & 717 & -44 & 8 & 39\end{array}$
$\begin{array}{lllll}06 & 716 & -44 & 6 & 45\end{array}$
$\begin{array}{lllll}09 & 714 & -43 & 5 & 68\end{array}$
$\begin{array}{lllll}12 & 711 & -44 & 6 & 82\end{array}$
$\begin{array}{lllll}15 & 708 & -43 & 8 & 80\end{array}$
$\begin{array}{lllll}18 & 704 & -44 & 6 & 66\end{array}$
$\begin{array}{lllll}21 & 700 & -41 & 9 & 61\end{array}$ DAY 29
$\begin{array}{lllll}00 & 688 & -59 & 6 & 30\end{array}$
$\begin{array}{lllll}03 & 688 & -60 & 7 & 33\end{array}$
$\begin{array}{lllll}06 & 688 & -61 & 7 & 32\end{array}$
$\begin{array}{lllll}09 & 688 & -61 & 6 & 35\end{array}$
$\begin{array}{lllll}12 & 688 & -63 & 5 & 50\end{array}$
$\begin{array}{lllll}15 & 688 & -64 & 4 & 61\end{array}$
$\begin{array}{lllll}18 & 687 & -65 & 5 & 66\end{array}$
$\begin{array}{lllll}21 & 686 & -66 & 3 & 78\end{array}$

677-67 4101
677-68 4116
$\begin{array}{llll}677 & -64 & 5 & 91\end{array}$
$\begin{array}{llll}677 & -62 & 5 & 74\end{array}$
$\begin{array}{llll}676 & -62 \quad 6 \quad 75\end{array}$
$\begin{array}{llllllll}677 & -61 & 7 & 46 & 690 & -51 & 11 & 29\end{array}$

| 679 | -61 | 8 | 39 | 690 | -52 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$$
\text { DAY } 23
$$

$\begin{array}{llll}698 & -45 & 8 & 49\end{array}$
$\begin{array}{llll}697 & -45 & 7 & 15\end{array}$
$\begin{array}{llll}696 & -47 & 6 & 18\end{array}$
$\begin{array}{llll}696 & -47 & 9 & 21\end{array}$
$\begin{array}{llll}695 & -47 & 9 & 30\end{array}$
694-44 $10 \quad 42$
$\begin{array}{llll}693 & -42 & 7 & 16\end{array}$
$\begin{array}{llll}694 & -41 & 6 & 26\end{array}$
DAY 30
$\begin{array}{llll}686 & -67 & 4 & 82\end{array}$
$\begin{array}{llll}685 & -67 & 4 & 84\end{array}$
$\begin{array}{llll}684 & -67 & 4 & 84\end{array}$
683 -68 $4 \quad 85$
683-69 $2 \quad 85$
682-69 $4 \quad 82$
682-70
682-69

| PP |  | v | DD | PP |  |  | DD | PP |  |  | DD |  | Tt |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | Day | 6 |  |  | DAY | 7 |  |
| 691 | -64 | 5 | 66 | 687 | -66 | 5 | 63 | 693 | -60 | 5 | 35 | 694 | -60 | 2 | 78 |
| 690 | -65 | 4 | 75 | 686 | -67 | 4 | 78 | 694 | -59 | 6 | 35 | 693 | -60 |  | 78 |
| 690 | -65 | 5 | 61 | 686 | -66 | 5 | 64 | 695 | -57 | 5 | 39 | 690 | -56 | 3 | 57 |
| 690 | -66 | 4 | 77 | 687 | -66 | 6 | 60 | 695 | -59 | 4 | 39 | 690 | -52 | 2 | 80 |
| 690 | -64 | 5 | 66 | 688 | -66 | 5 | 53 | 695 | -59 | 5 | 45 | 688 | -51 | 4 | 47 |
| 689 | -65 | 6 | 67 | 689 | -62 | 5 | 47 | 695 | -59 | 4 | 42 | 686 | -50 | 4 | 54 |
| 688 | -64 | 5 | 66 | 689 | -61 | 5 | 54 | 695 | -58 | 3 | 68 | 686 | -49 | 4 | 59 |
| 688 | -65 | 5 | 73 | 691 | -60 | 4 | 53 | 695 | -58 | 2 | 77 | 686 | -51 | 3 | 85 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 685 | -59 | 3 | 118 | 687 | -64 | 3 | 113 | 685 | -68 | 6 | 105 | 679 | -62 | 5 | 116 |
| 685 | -61 | 5 | 108 | 686 | -62 | 3 | 126 | 684 | -68 | 6 | 108 | 678 | -62 | 5 | 113 |
| 685 | -62 | 4 | 109 | 686 | -60 | 3 | 106 | 682 | -68 | 7 | 116 | 677 | -64 | 5 | 90 |
| 686 | -60 | 5 | 109 | 686 | -58 | 3 | 116 | 681 | -67 | 6 | 156 | 677 | -65 | 3 | 111 |
| 687 | -62 | 4 | 113 | 685 | -60 | 3 | 132 | 680 | -65 | 4 | 122 | 677 | -63 | 4 | 39 |
| 687 | -63 | 4 | 109 | 685 | -62 | 4 | 97 | 680 | -65 | 7 | 116 | 677 | -61 | 6 | 45 |
| 687 | -63 | 5 | 73 | 685 | -66 | 4 | 122 | 680 | -64 | 6 | 153 | 678 | -61 | 6 | 49 |
| 686 | -64 | 5 | 105 | 685 | -68 | 4 | 102 | 679 | -63 | 8 | 133 | 678 | -62 | 5 | 50 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 689 | -52 | 7 | 75 | 700 | -35 | 8 | 49 | 711 | -36 | 10 | 11 | 706 | -49 | 3 | 25 |
| 689 | -45 | 9 | 56 | 702 | -39 | 6 | 43 | 712 | -38 | 9 | 23 | 707 | -50 | 2 | 18 |
| 690 | -44 | 8 | 47 | 703 | -42 | 8 | 40 | 713 | -39 | 8 | 21 | 709 | -48 | 3 | 19 |
| 692 | -40 | 9 | 35 | 703 | -37 | 8 | 19 | 713 | -37 | 8 | 18 | 711 | -50 | 3 | 37 |
| 696 | -40 | 10 | 22 | 705 | -31 | 10 | 18 | 714 | -42 | 7 | 49 | 713 | -50 | 5 | 25 |
| 699 | -41 | 9 | 21 | 707 | -35 | 10 | 30 | 712 | -44 | 5 | 77 | 715 | -49 | 6 | 19 |
| 700 | -40 | 9 | 28 | 709 | -35 | 13 | 29 | 709 | -39 | 8 | 50 | 716 | -49 | 6 | 22 |
| 700 | -39 | 9 | 43 | 709 | -35 | 13. | 21 | 707 | -43 | 4 | 53 | 717 | -49 | 6 | 30 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 692 | -31 | 9 | 8 | 692 | -43 | 5 | 32 | 690 | -52 | 5 | 33 | 686 | -55 | 6 | 52 |
| 693 | -36 | 6 | 15 | 692 | -46 | 5 | 28 | 690 | -52 | 6 | 43 | 685 | -55 | 6 | 57 |
| 693 | -38 | 5 | 15 | 692 | -47 | 5 | 23 | 689 | -56 | 4 | 66 | 685 | -56 | 5 | 70 |
| 693 | -43 | 5 | 28 | 692 | -47 | 5 | 26 | 688 | -55 | 5 | 66 | 685 | -57 | 5 | 78 |
| 693 | -44 | 6 | 28 | 692 | -48 | 4 | 32 | 687 | -52 | 7 | 54 | 685 | -58 | 5 | 73 |
| 692 | -43 | 7 | 32 | 692 | -49 | 5 | 30 | 686 | -54 | 6 | 53 | 685 | -57 | 7 | 43 |
| 691 | -42 | 5 | 22 | 691 | -49 | 5 | 32 | 686 | -53 | 6 | 61 | 686 | -60 | 7 | 25 |
| 691 | -42 | 5 | 30 | 691 | -50 | 4 | 37 | 686 | -54 | 7 | 53 | 687 | -58 | 6 | 32 |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-55.1$ STD DEV $=9.2$ MAX $=-30.0$ at 1210 GMT ON DAY 19 MIN $=-69.6$ AT 1800 GMT ON DAY 30
* theta (K) * MEAN $=242.52$
* PRESSURE (MB) * MEAN $=689.3$ StD DEV $=10.0$ MAX $=717.7$ at 2240 GMT ON DAY 21 MIN $=669.7$ at 40 GMt ON DAY 1
* WINDS (M/S) * MEAN $=5.6$ STD DEV $=2.0$ RESULTANT $=4.9$ FROM 52. CONSTANCY $=0.88$ MAX $=14.4$ FROM 28. AT 2050 GMT DAY 19
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $3.7 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 1 & 27 & 27 & 21 & 12 & 11 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | Tt | vv | DD | PP | TT | vv | DD | PP |  | VV | DD | PP |  | VV | DD | PP | IT | vV | DD | PP | TT | V | DD | PP | IT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | day | 1 |  |  | DAY | 2 |  |  | dar | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 682 | -68 | 5 | 67 | 684 | -67 | 5 | 35 | 690 | -61 | 0 | 0 | 690 | -55 | 6 | 25 | 690 | -55 | 4 | 77 | 686 | -63 | 6 | 37 | 690 | -65 | 6 | 53 |
| 03 | 682 | -67 | 5 | 49 | 684 | -69 | 4 | 37 | 690 | -59 | 3 | 37 | 691 | -54 | 5 | 30 | 690 | -58 | 3 | 80 | 686 | -62 | 6 | 40 | 690 | -65 | 5 | 52 |
| 06 | 682 | -68 | 5 | 46 | 685 | -68 | 5 | 37 | 690 | -60 | 4 | 37 | 691 | -53 | 6 | 28 | 689 | -60 | 5 | 74 | 687 | -61 | 6 | 42 | 690 | -65 | 5 | 42 |
| 09 | 682 | -68 | 6 | 33 | 686 | -67 | 4 | 37 | 691 | -63 | 3 | 37 | 691 | -52 | 7 | 30 | 689 | -63 | 5 | 82 | 687 | -61 | 6 | 43 | 691 | -63 | 6 | 49 |
| 12 | 682 | -68 | 6 | 35 | 687 | -66 | 4 | 37 | 691 | -64 | 1 | 37 | 691 | -52 | 6 | 39 | 688 | -63 | 4 | 63 | 688 | -62 | 4 | 59 | 691 | -64 | 4 | 49 |
| 15 | 682 | -68 | 6 | 36 | 688 | -65 | 3 | 37 | 690 | -63 | 4 | 37 | 691 | -51 | 4 | 59 | 687 | -66 | 2 | 88 | 688 | -63 | 5 | 60 | 691 | -61 | 5 | 37 |
| 18 | 683 | -69 | 6 | 30 | 689 | -64 | 2 | 37 | 690 | -61 | 4 | 45 | 691 | -53 | 4 | 66 | 687 | -66 | 4 | 50 | 688 | -63 | 6 | 39 | 692 | -63 | 3 | 39 |
| 21 | 683 | -67 | 7 | 29 | 690 | -62 | 2 | 37 | 690 | -57 | 6 | 30 | 691 | -53 | 4 | 73 | 686 | -64 | 6 | 39 | 689 | -64 | 6 | 49 | 692 | -60 | 3 | 36 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 690 | -58 | 5 | 19 | 679 | -45 | 2 | 347 | 667 | -57 | 6 | 153 | 663 | -73 | 4 | 95 | 677 | -51 | 4 | 338 | 688 | -67 | 1 | 28 | 684 | -66 | 1 | 28 |
| 03 | 689 | -53 | 5 | 358 | 676 | -44 | 1 | 77 | 665 | -56 | 6 | 175 | 664 | -72 | 5 | 16 | 678 | -53 | 2 | 340 | 688 | -67 | . | 28 | 682 | -65 | 1 | 28 |
| 06 | 688 | -50 | 1 | 355 | 675 | -47 | 4 | 77 | 663 | -56 | 7 | 163 | 665 | -68 | 7 | 14 | 680 | -57 | 1 | 340 | 688 | -67 | 0 | 0 | 681 | -64 | 2 | 28 |
| 09 | 687 | -50 | 0 | 0 | 674 | -49 | 6 | 108 | 662 | -59 | 6 | 108 | 667 | -62 | 7 | 1 | 682 | -59 | 1 | 341 | 687 | -67 | 0 | 0 | 680 | -65 | 4 | 28 |
| 12 | 686 | -48 | 5 | 254 | 673 | -51 | 4 | 95 | 662 | -68 | 5 | 118 | 668 | -53 | 7 | 330 | 683 | -61 | 4 | 28 | 687 | -68 | 0 | 0 | 680 | -65 | 4 | 28 |
| 15 | 685 | -44 | 2 | 265 | 671 | -55 | 4 | 109 | 661 | -71 | 6 | 136 | 670 | -50 | 7 | 310 | 685 | -63 | 3 | 28 | 686 | -67 | 0 | 0 | 680 | -66 | 7 | 46 |
| 18 | 683 | -41 | 3 | 188 | 670 | -58 | 3 | 118 | 660 | -72 | 7 | 127 | 672 | -49 | 6 | 312 | 686 | -65 | 1 | 28 | 686 | -67 | 1 | 28 | 680 | -67 | 6 | 42 |
| 21 | 682 | -41 | 3 | 360 | 669 | -57 | 4 | 123 | 661 | -73 | 6 | 112 | 675 | -49 | 3 | 326 | 687 | -67 | 1 | 28 | 684 | -66 | 1 | 28 | 681 | -66 | 7 | 35 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 682 | -66 | 7 | 40 | 688 | -61 | 8 | 25 | 690 | -65 | 4 | 74 | 679 | -64 | 5 | 78 | 681 | -64 | 7 | 59 | 681 | -66 | 5 | 74 | 677 | -70 | 4 | 91 |
| 03 | 682 | -66 | 9 | 37 | 689 | -61 | 8 | 37 | 688 | -65 | 5 | 80 | 678 | -65 | 6 | 75 | 681 | -64 | 7 | 61 | 680 | -67 | 5 | 78 | 677 | -69 | 4 | 77 |
| 06 | 683 | -64 | 8 | 25 | 689 | -61 | 7 | 42 | 687 | -63 | 7 | 70 | 679 | -65 | 7 | 68 | 682 | -65 | 7 | 64 | 680 | -67 | 5 | 81 | 677 | -70 | 4 | 82 |
| 09 | 684 | -62 | 8 | 33 | 690 | -61 | 6 | 50 | 686 | -63 | 6 | 87 | 679 | -66 | 6 | 63 | 682 | -65 | 6 | 57 | 679 | -68 | 4 | 87 | 676 | -69 | 6 | 71 |
| 12 | 685 | -62 | 6 | 37 | 690 | -60 | 7 | 45 | 684 | -64 | 6 | 77 | 679 | -66 | 7 | 64 | 682 | -65 | 7 | 67 | 679 | -68 | 5 | 88 | 676 | -70 | 5 | 80 |
| 15 | 686 | -61 | 8 | 26 | 690 | -61 | 6 | 59 | 682 | -64 | 6 | 80 | 680 | -66 | 6 | 67 | 682 | -65 | 6 | 63 | 678 | -68 | 5 | 78 | 676 | -70 | 5 | 88 |
| 18 | 686 | -61 | 8 | 29 | 690 | -62 | 5 | 63 | 681 | -64 | 4 | 82 | 680 | -65 | 6 | 54 | 682 | -66 | 5 | 77 | 678 | -69 | 5 | 81 | 675 | -70 | 5 | 84 |
| 21 | 687 | -61 | 9 | 21 | 690 | -64 | 4 | 77 | 680 | -64 | 5 | 75 | 681 | -65 | 7 | 57 | 681 | -67 | 4 | 82 | 678 | -69 | 4 | 84 | 675 | -70 | 5 | 81 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 675 | -70 | 5 | 77 | 674 | -70 | 6 | 68 | 681 | -69 | 8 | 45 | 679 | -64 | 7 | 90 | 675 | -64 | 7 | 36 | 674 | -66 | 7 | 59 | 672 | -71 | 6 | 67 |
| 03 | 674. | -70 | 4 | 81 | 674 | -69 | 5 | 56 | 681 | -69 | 8 | 50 | 678 | -65 | 7 | 95 | 675 | -63 | 6 | 50 | 673 | -67 | 6 | 64 | 672 | -72 | 5 | 73 |
| 06 | 674 | -70 | 5 | 82 | 674 | -70 | 6 | 57 | 682 | -69 | 7 | 61 | 677 | -65 | 7 | 80 | 675 | -63 | 6 | 68 | 673 | -68 | 5 | 74 | 671 | -73 | 4 | 97 |
| 09 | 674 | -70 | 5 | 77 | 675 | -70 | 7 | 47 | 682 | -68 | 8 | 46 | 677 | -66 | 7 | 82 | 674 | -62 | 6 | 66 | 673 | -70 | 4 | 102 | 669 | -71 | 5 | 92 |
| 12 | 673 | -69 | 5 | 68 | 676 | -70 | 8 | 37 | 682 | -67 | 7 | 68 | 676 | -64 | 8 | 68 | 674 | -63 | 6 | 75 | 673 | -71 | 5 | 84 | 668 | -72 | 5 | 112 |
| 15 | 673 | -70 | 6 | 73 | 677 | -69 | 9 | 43 | 682 | -68 | 7 | 77 | 675 | -64 | 8 | 63 | 674 | -64 | 6 | 77 | 673 | -70 | 5 | 70 | 667 | -71 | 5 | 94 |
| 18 | 673 | -69 | 7 | 59 | 678 | -69 | 8 | 36 | 681 | -66 | 7 | 84 | 675 | -64 | 7 | 50 | 674 | -66 | 5 | 87 | 673 | -70 | 5 | 60 | 665 | -69 | 5 | 90 |
| 21 | 673 | -69 | 6 | 61 | 680 | -69 | 8 | 43 | 680 | -65 | 7 | 80 | 675 | -64 | 7 | 49 | 674 | -67 | 5 | 75 | 673 | -71 | 5 | 63 | 665 | -71 | 5 | 99 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 665 | -72 | 5 | 99 | 668 | -65 | 9 | 37 | 666 | -64 | 9 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 665 | -72 | 3 | 99 | 667 | -64 | 9 | 45 | 667 | -65 | 8 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 666 | -69 | 6 | 40 | 666 | -63 | 10 | 40 | 668 | -65 | 7 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 667 | -68 | 7 | 30 | 666 | -63 | 9 | 37 | 670 | -65 | 8 | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 668 | -69 | 7 | 37 | 664 | -61 | 11 | 33 | 672 | -65 | 9 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 668 | -68 | 8 | 35 | 664 | -60 | 8 | 39 | 674 | -64 | 9 | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 668 | -67 | 8 | 42 | 664 | -62 | 9 | 29 | 675 | -64 | 8 | 37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 668 | -67 | 8 | 32 | 665 | -64 | 9 | 37 | 677 | -62 | 7 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-63.7$ STD DEV $=6.1$ MAX $=-38.6$ AT 2010 GMT ON DAY 8 MIN $=-73.6$ AT 2240 GMT ON DAY 10
* theta (K) * mean $=233.96$
* PRESSURE (MB) * MEAN $=679.3$ STD DEV $=8.2$ MAX $=691.8$ AT 1410 GMT ON DAY 7 MIN $=660.3$ AT 1740 GMT ON DAY 10
* WINDS (M/S) * MEAN $=5.3$ STD DEV $=2.1$ RESULTANT $=4.6$ FROM 55. CONSTANCY $=0.86$ MAX $=11.1$ FROM 36. AT 510 GMT DAY 30
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): $\begin{array}{rlrrrrrrrrrrrrr} & -2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 \\ 45-50 & 50-55 & 55-60 & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
percent

| HR | PP | IT | vV | DD | PP | IT | vv | DD | PP |  | vV | DD | PP |  | V | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | day | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | day | 7 |  |
| 00 | 679 | -61 | 7 | 37 | 678 | -57 | 4 | 355 | 675 | -50 | 8 | 1 | 669 | -47 | 9 | 11 | 674 | -54 | 11 | 33 | 674 | -58 | 10 | 28 | 672 | -65 | 8 | 32 |
| 03 | 679 | -58 | 7 | 30 | 679 | -54 | 4 | 358 | 673 | -47 | 8 | 336 | 669 | -47 | 11 | 19 | 674 | -55 | 11 | 23 | 674 | -58 | 12 | 21 | 672 | -65 | 8 | 32 |
| 06 | 680 | -56 | 6 | 28 | 678 | -55 | 5 | 28 | 672 | -46 | 8 | 348 | 670 | -48 | 11 | 23 | 675 | -55 | 12 | 25 | 673 | -59 | 9 | 7 | 672 | -64 | 7 | 35 |
| 09 | 680 | -53 | 6 | 25 | 679 | -56 | 4 | 19 | 671 | -45 | 7 | 351 | 671 | -50 | 12 | 14 | 675 | -56 | 12 | 29 | 673 | -59 | 7 | 15 | 672 | -64 | 8 | 30 |
| 12 | 680 | -51 | 6 | 15 | 679 | -57 | 4 | 19 | 670 | -45 | 10 | 358 | 672 | -53 | 10 | 19 | 675 | -56 | 10 | 25 | 672 | -61 | 8 | 25 | 673 | -64 | 8 | 32 |
| 15 | 680 | -52 | 6 | 7 | 678 | -56 | 5 | 9 | 669 | -45 | 12 | 354 | 672 | -53 | 12 | 15 | 675 | -57 | 9 | 42 | 672 | -63 | 7 | 29 | 674 | -64 | 7 | 36 |
| 18 | 679 | -55 | 5 | 8 | 677 | -52 | 7 | 11 | 669 | -45 | 11 | 1 | 672 | -54 | 11 | 23 | 675 | -56 | 11 | 39 | 671 | -64 | 7 | 33 | 676 | -64 | 7 | 26 |
| 21 | 678 | -57 | 5 | 360 | 676 | -50 | 6 | 14 | 669 | -46 | 10 | 8 | 673 | -54 | 12 | 33 | 675 | -58 | 9 | 37 | 672 | -64 | 7 | 32 | 677 | -64 | 7 | 33 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 678 | -65 | 8 | 36 | 690 | -54 | 9 | 5 | 697 | -44 | 7 | 360 | 704 | -53 | 8 | 37 | 701 | -52 | 5 | 88 | 686 | -57 | 6 | 70 | 696 | -63 | 7 | 43 |
| 03 | 680 | -64 | 8 | 32 | 690 | -52 | 9 | 18 | 699 | -49 | 6 | 19 | 704 | -52 | 9 | 35 | 698 | -49 | 7 | 47 | 686 | -58 | 6 | 73 | 697 | -63 | 6 | 47 |
| 06 | 681 | -64 | 7 | 36 | 691 | -51 | 8 | 18 | 701 | -52 | 6 | 32 | 704 | -51 | 9 | 26 | 697 | -48 | 8 | 47 | 687 | -58 | 8 | 57 | 698 | -63 | 6 | 37 |
| 09 | 683 | -62 | 7 | 25 | 691 | -49 | 10 | 7 | 702 | -53 | 7 | 25 | 703 | -51 | 8 | 28 | 695 | -50 | 6 | 60 | 688 | -58 | 7 | 60 | 700 | -61 | 7 | 45 |
| 12 | 684 | -62 | 8 | 22 | 692 | -46 | 8 | 11 | 702 | -54 | 7 | 26 | 703 | -51 | 10 | 30 | 692 | -51 | 8 | 70 | 690 | -59 | 7 | 52 | 700 | -61 | 6 | 54 |
| 15 | 686 | -60 | 8 | 21 | 693 | -43 | 9 | 352 | 703 | -54 | 7 | 30 | 702 | -52 | 8 | 32 | 689 | -54 | 10 | 81 | 691 | -60 | 7 | 50 | 700 | -61 | 6 | 32 |
| 18 | 688 | -58 | 8 | 22 | 695 | -42 | 5 | 36 | 703 | -55 | 7 | 37 | 702 | -52 | 8 | 33 | 687 | -56 | 8 | 77 | 693 | -62 | 6 | 53 | 700 | -61 | 6 | 46 |
| 21 | 689 | -56 | 8 | 16 | 696 | -41 | 7 | 327 | 704 | -54 | 8 | 35 | 702 | -51 | 6 | 56 | 686 | -57 | 5 | 82 | 695 | -62 | 6 | 52 | 700 | -62 | 7 | 46 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | day | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 699 | -62 | 4 | 64 | 688 | -59 | 7 | 32 | 684 | -57 | 8 | 32 | 685 | -58 | 6 | 21 | 688 | -53 | 5 | 19 | 688 | -57 | 3 | 77 | 687 | -58 | 7 | 47 |
| 03 | 698 | -61 | 7 | 45 | 687 | -60 | 7 | 30 | 684 | -58 | 7 | 33 | 685 | -57 | 5 | 19 | 688 | -51 | 5 | 9 | 687 | -58 | 4 | 54 | 687 | -59 | 8 | 53 |
| 06 | 696 | -61 | 7 | 45 | 686 | -62 | 6 | 50 | 684 | -60 | 8 | 33 | 685 | -60 | 4 | 32 | 688 | -51 | 4 | 39 | 687 | -57 | 3 | 90 | 687 | -59 | 8 | 49 |
| 09 | 695 | -61 | 7 | 56 | 685 | -61 | 8 | 32 | 685 | -60 | 8 | 29 | 686 | -62 | 5 | 36 | 688 | -53 | 4 | 30 | 687 | -57 | 4 | 68 | 687 | -59 | 8 | 40 |
| 12 | 693 | -60 | 7 | 30 | 685 | -61 | 8 | 32 | 685 | -59 | 7 | 26 | 686 | -60 | 6 | 26 | 689 | -54 | 4 | 32 | 686 | -58 | 4 | 63 | 688 | -60 | 7 | 54 |
| 15 | 692 | -60 | 8 | 40 | 684 | -61 | 9 | 35 | 685 | -59 | 6 | 29 | 686 | -57 | 6 | 14 | 688 | -54 | 4 | 37 | 686 | -57 | 6 | 47 | 688 | -59 | 7 | 50 |
| 18 | 690 | -60 | 8 | 32 | 684 | -59 | 7 | 35 | 684 | -58 | 8 | 22 | 686 | -55 | 7 | 16 | 688 | -56 | 3 | 78 | 686 | -57 | 6 | 52 | 688 | -58 | 7 | 46 |
| 21 | 689 | -60 | 8 | 33 | 685 | -58 | 7 | 39 | 684 | -57 | 8 | 22 | 687 | -55 | 6 | 9 | 688 | -57 | 4. | 47 | 687 | -58 | 6 | 57 | 688 | -58 | 7 | 36 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 688 | -58 | 8 | 37 | 688 | -61 | 7 | 52 | 685 | -65 | 6 | 56 | 682 | -67 | 7 | 63 | 683 | -64 | 7 | 36 | 675 | -56 | 8 | 52 | 669 | -56 | 6 | 39 |
| 03 | 689 | -58 | 8 | 28 | 687 | -62 | 7 | 54 | 685 | -65 | 7 | 57 | 682 | -68 | 6 | 77 | 683 | -62 | 7 | 45 | 674 | -54 | 8 | 59 | 670 | -55 | 6 | 29 |
| 06 | 689 | -58 | 10 | 28 | 687 | -63 | 7 | 43 | 685 | -65 | 6 | 67 | 681 | -66 | 7 | 63 | 682 | -62 | 7 | 63 | 672 | -54 | 8 | 63 | 672 | -56 | 6 | 29 |
| 09 | 689 | -58 | 9 | 32 | 686 | -64 | 8 | 60 | 685 | -66 | 6 | 68 | 681 | -65 | 6 | 67 | 681 | -62 | 7 | 60 | 670 | -55 | 9 | 60 | 673 | -60 | 6 | 30 |
| 12 | 688 | -60 | 8 | 35 | 686 | -64 | 6 | 57 | 684 | -66 | 5 | 64 | 682 | -65 | 8 | 59 | 681 | -60 | 8 | 60 | 669 | -56 | 8 | 66 | 675 | -61 | 5 | 28 |
| 15 | 689 | -60 | 7 | 42 | 685 | -65 | 8 | 53 | 684 | -66 | 5 | 75 | 681 | -65 | 7 | 42 | 679 | -59 | 10 | 50 | 668 | -57 | 7 | 66 | 676 | -61 | 5 | 50 |
| 18 | 688 | -61 | 7 | 45 | 686 | -65 | 6 | 54 | 684 | -68 | 5 | 77 | 682 | -65 | 7 | 42 | 677 | -58 | 9 | 46 | 667 | -56 | 7 | 67 | 677 | -61 | 6 | 43 |
| 21 | 688 | -61 | 7 | 46 | 685 | -65 | 7 | 54 | 683 | -68 | 6 | 75 | 682 | -64 | 7 | 47 | 676 | -57 | 9 | 40 | 668 | -56 | 7 | 54 | 678 | -60 | 6 | 45 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 678 | -61 | 5 | 49 | 683 | -67 | 4 | 39 | 686 | -68 | 5 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 679 | -62 | 6 | 49 | 684 | -67 | 4 | 39 | 685 | -68 | 5 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 679 | -63 | 6 | 47 | 684 | -68 | 5 | 37 | 686 | -67 | 5 | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 680 | -63 | 5 | 47 | 684 | -68 | 5 | 42 | 686 | -68 | 5 | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 680 | -64 | 5 | 42 | 685 | -68 | 5 | 30 | 687 | -68 | 5 | 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 680 | -64 | 6 | 33 | 685 | -68 | 5 | 28 | 687 | -69 | 5 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 681 | -64 | 4 | 46 | 685 | -67 | 6 | 28 | 687 | -68 | 5 | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 682 | -66 | 4 | 54 | 685 | -68 | 6 | 40 | 688 | -65 | 5 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-58.3$ Std dev $=5.8$ max $=-41.0$ at 2030 GMT ON day 9 min $=-69.5$ AT 1520 GMT ON DAY 31
* theta (K) * MEAN $=239.53$
* PRESSURE (MB) * MEAN $=684.1$ STD DEV $=8.8$ MAX $=703.8$ AT 2330 GMT ON DAY 10 MIN $=667.3$ AT 1910 GMT ON DAY 27
* WINDS (M/S) * MEAN $=7.0$ STD DEV $=1.9$ RESULTANT $=6.6$ FROM 36. CONSTANCY $=0.94$ MAX $=14.2$ FROM 22. AT 400 GMT DAY 5 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT
SEP
HR
00
03
06
09
12
15
18
21
00
03
03
06
09
12
15
18
21 DAY 22

DAY 23
DAY 24

DAY 15
$\begin{array}{llll}670 & -62 & 7 & 68\end{array}$
$\begin{array}{llll}669 & -62 \quad 12 \quad 59\end{array}$
$\begin{array}{llll}668 & -61 & 11 & 61\end{array}$
668-60 $\quad 9 \quad 33$
$\begin{array}{llll}668 & -61 & 11 & 23\end{array}$
$\begin{array}{llllllll}675 & -67 & 6 & 87 & 670 & -60 & 11 & 30 \\ 673 & -67 & 5 & 97 & 672 & -61 & 11 & 22\end{array}$
$\begin{array}{llllllll}675 & -67 & 6 & 87 & 670 & -60 & 11 & 30 \\ 673 & -67 & 5 & 97 & 672 & -61 & 11 & 22\end{array}$
DAY 17 DAY 18
DAY 16
P TT VV DD
DAY 2
692-59 549
$\begin{array}{llll}692 & -60 \quad 4 \quad 85\end{array}$
$\begin{array}{llll}692 & -61 & 5 & 92\end{array}$
$\begin{array}{llll}692 & -62 & 5 & 84\end{array}$
$\begin{array}{llll}692 & -62 & 3 & 94\end{array}$
$\begin{array}{llllllll}692 & -63 & 4 & 95 & 686 & -62 & 5 & 99\end{array}$
$\begin{array}{llllllll}692 & -62 & 3 & 95 & 685 & -62 & 4 & 109\end{array}$
$\begin{array}{llllllll}691 & -62 & 4 & 85 & 683 & -63 & 4 & 115\end{array}$
DAY 9
$\begin{array}{llll}682 & -67 & 7 & 71\end{array}$
$\begin{array}{llll}681 & -66 & 8 & 61\end{array}$
$\begin{array}{llll}681 & -66 & 7 & 70\end{array}$
$\begin{array}{llll}679 & -68 & 7 & 81\end{array}$
$\begin{array}{llll}678 & -68 & 6 & 87\end{array}$
$\begin{array}{llll}676 & -67 & 6 & 8\end{array}$

DAY 10

Day


PP TT VV DD PP TT VV DD

$\begin{array}{rr}\text { PP } \\ \text { TT VV } \\ \text { DAY } & 5\end{array}$

## $\begin{array}{llll}682 & -65 \quad 6 & 53\end{array}$

$\begin{array}{llll}683 & -65 & 5 & 37\end{array}$
$\begin{array}{llll}684 & -64 & 6 & 35\end{array}$
$\begin{array}{llll}686 & -65 & 4 & 63\end{array}$
$\begin{array}{llll}686 & -64 & 6 & 57\end{array}$
$\begin{array}{llll}687 & -64 & 6 & 54\end{array}$
$\begin{array}{llll}687 & -63 & 5 & 54\end{array}$
$\begin{array}{llll}688 & -62 & 6 & 49\end{array}$
DAY 12

## PP TT VV DD

 DAY 6$\begin{array}{llllllll}689 & -63 & 6 & 49 & 688 & -61 & 8 & 33\end{array}$
$\begin{array}{llllllll}689 & -63 & 6 & 43 & 688 & -61 & 7 & 40\end{array}$
$\begin{array}{llllllll}689 & -63 & 6 & 46 & 687 & -61 & 7 & 46\end{array}$
$\begin{array}{llllllll}689 & -62 & 7 & 39 & 687 & -61 & 7 & 46\end{array}$
$\begin{array}{llllllll}690 & -62 & 7 & 49 & 687 & -61 & 6 & 61\end{array}$
$\begin{array}{llllllll}689 & -62 & 7 & 43 & 687 & -62 & 6 & 60\end{array}$
$\begin{array}{llllllll}689 & -62 & 7 & 39 & 686 & -62 & 7 & 49\end{array}$ DAY 13

DAY 7
DD
TT W

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $66.2 \%$ PRESSURE: $66.2 \%$ WINDS: $66.2 \%$


WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW
$\begin{array}{llllllllllllllllllllll}\text { PERCENT } & 0 & 12 & 32 & 25 & 27 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| OCT | 97 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 1 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { vv } \\ 2 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 3 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 4 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 5 \end{array}$ | DD | P1 | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 6 \end{array}$ | DD |  |  | $7$ | DD |
| 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 |  |  |  |  |  |  |  |  | 686 | -53 | 5 | 46 | 683 | -54 | 5 | 60 | 687 | -52 | 6 | 29 | 683 | -52 | 4 | 66 | 674 | -51 | 4 | 88 |
| 03 |  |  |  |  |  |  |  |  | 685 | -52 | 7 | 66 | 683 | -53 | 4 | 47 | 687 | -51 | 5 | 29 | 682 | -50 | 3 | 88 | 673 | -51 | 5 | 71 |
| 06 |  |  |  |  |  |  |  |  | 684 | -52 | 6 | 59 | 684 | -54 | 5 | 50 | 687 | -52 | 6 | 40 | 681 | -50 | 4 | 104 | 673 | -52 | 6 | 82 |
| 09 |  |  |  |  |  |  |  |  | 684 | -51 | 6 | 57 | 685 | -54 | 4 | 39 | 687 | -52 | 5 | 42 | 680 | -51 | 4 | 109 | 672 | -53 | 5 | 82 |
| 12 |  |  |  |  |  |  |  |  | 683 | -52 | 4 | 61 | 686 | -55 | 5 | 30 | 686 | -52 | 6 | 37 | 679 | -52 | 3 | 120 | 672 | -55 | 6 | 88 |
| 15 |  |  |  |  |  |  |  |  | 682 | -51 | 5 | 60 | 686 | -53 | 4 | 37 | 686 | -50 | 5 | 43 | 677 | -49 | 4 | 112 | 672 | -53 | 7 | 90 |
| 18 |  |  |  |  |  |  |  |  | 682 | -51 | 5 | 57 | 687 | -52 | 5 | 32 | 685 | -50 | 5 | 54 | 676 | -49 | 5 | 101 | 672 | -52 | 5 | 85 |
| 21 |  |  |  |  | 686 | -52 | 7 | 39 | 683 | -52 | 5 | 53 | 687 | -53 | 6 | 30 | 684 | -51 | 4 | 57 | 675 | -50 | 4 | 97 | 673 | -53 | 4 | 97 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 673 | -53 | 4 | 90 | 685 | -52 | 3 | 94 | 686 | -53 | 3 | 153 | 679 | -51 | 6 | 95 | 680 | -50 | 4 | 80 | 684 | -49 | 4 | 85 | 682 | -49 | 3 | 88 |
| 03 | 674 | -52 | 5 | 92 | 685 | -51 | 4 | 74 | 685 | -52 | 4 | 91 | 678 | -50 | 7 | 74 | 680 | -49 | 4 | 84 | 684 | -49 | 5 | 66 | 682 | -49 | 4 | 59 |
| 06 | 675 | -52 | 4 | 101 | 686 | -50 | 4 | 61 | 683 | -49 | 3 | 102 | 677 | -49 | 8 | 67 | 681 | -49 | 5 | 78 | 684 | -49 | 4 | 77 | 681 | -49 | 5 | 85 |
| 09 | 677 | -51 | 4 | 78 | 687 | -50 | 3 | 88 | 683 | -50 | 3 | 111 | 677 | -49 | 6 | 61 | 682 | -49 | 5 | 85 | 684 | -48 | 4 | 78 | 681 | -49 | 4 | 81 |
| 12 | 678 | -53 | 5 | 75 | 687 | -54 | 3 | 82 | 682 | -51 | 6 | 113 | 677 | -50 | 7 | 64 | 682 | -49 | 5 | 77 | 683 | -50 | 4 | 82 | 680 | -50 | 5 | 71 |
| 15 | 680 | -51 | 4 | 108 | 687 | -50 | 3 | 98 | 681 | -49 | 6 | 102 | 678 | -49 | 5 | 71 | 683 | -48 | 4 | 91 | 683 | -47 | 2 | 90 | 680 | -49 | 6 | 57 |
| 18 | 682 | -51 | 4 | 98 | 687 | -51 | 3 | 105 | 680 | -49 | 6 | 102 | 678 | -49 | 5 | 70 | 683 | -48 | 4 | 80 | 683 | -48 | 4 | 68 | 680 | -48 | 5 | 60 |
| 21 | 683 | -51 | 3 | 82 | 687 | -52 | 4 | 144 | 679 | -51 | 6 | 101 | 679 | -50 | 5 | 88 | 684 | -48 | 4 | 97 | 682 | -48 | 5 | 50 | 679 | -49 | 5 | 61 |
|  |  | DAY | 29 |  |  |  | 30 |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 679 | -49 | 4 | 59 | 675 | -51 | 3 | 102 | 672 | -50 | 2 | 99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 679 | -49 | 4 | 61 | 675 | -51 | 4 | 108 | 672 | -50 | 3 | 101 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 678 | -50 | 3 | 84 | 674 | -51 | 3 | 105 | 671 | -51 | 4 | 59 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 678 | -50 | 4 | 73 | 674 | -50 | 3 | 122 | 672 | -50 | 3 | 77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 677 | -52 | 4 | 88 | 673 | -52 | 4 | 81 | 672 | -52 | 3 | 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 677 | -50 | 4 | 84 | 673 | -50 | 4 | 90 | 672 | -50 | 4 | 52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 676 | -49 | 4 | 94 | 673 | -49 | 3 | 111 | 672 | -49 | 5 | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 676 | -50 | 3 | 109 | 672 | -50 | 3 | 90 | 673 | -50 | 5 | 37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-50.6$ Std dev $=1.6$ MAX $=-47.2$ at 1610 GMT ON DAY 27 MIN $=-54.9$ at 1100 GMt ON DAY 18
* THETA (K) * MEAN $=248.51$
* PRESSURE (MB) * MEAN $=680.0$ STD DEV $=4.8$ MAX $=687.6$ AT 1640 GMT ON DAY 23 MIN $=671.3$ AT 530 GMT ON DAY 31
* WINDS (M/S) * MEAN $=4.4$ STD DEV $=1.2$ RESULTANT $=4.0$ FROM 75. CONSTANCY $=0.91$ MAX $=8.4$ FROM 63. AT 620 GMT DAY 25
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $51.2 \%$ PRESSURE: $51.2 \%$ WINDS: $51.2 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 4 & 13 & 31 & 36 & 14 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { dAY } \end{gathered}$ |  | DD |  | $\begin{gathered} T T \\ \text { DAY } \end{gathered}$ |  | Do |  |  |  | DD |  |  | VV | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 673 | -50 | 4 | 40 | 677 | -49 | 5 | 15 | 683 | -48 | 5 | 16 | 692 | -45 | 6 | 36 | 698 | -39 | 7 | 15 | 699 | -33 | 13 | 35 | 705 | -31 | 8 | 23 |
| 03 | 674 | -50 | 5 | 36 | 677 | -48 | 5 | 18 | 684 | -49 | 6 | 14 | 693 | -44 | 7 | 43 | 699 | -38 | 7 | 26 | 699 | -32 | 8 | 14 | 706 | -31 | 4 | 42 |
| 06 | 674 | -50 | 5 | 36 | 678 | -47 | 5 | 16 | 685 | -47 | 7 | 21 | 694 | -43 | 7 | 32 | 700 | -38 | 7 | 18 | 700 | -29 | 6 | 21 | 706 | -31 | 5 | 47 |
| 09 | 675 | -50 | 5 | 26 | 678 | -47 | 5 | 18 | 686 | -46 | 7 | 19 | 695 | -42 | 6 | 30 | 700 | -39 | 7 | 33 | 700 | -30 | 7 | 29 | 705 | -30 | 6 | 59 |
| 12 | 675 | -51 | 4 | 26 | 679 | -47 | 5 | 15 | 687 | -45 | 8 | 23 | 696 | -42 | 7 | 35 | 701 | -37 | 6 | 22 | 701 | -28 | 7 | 29 | 704 | -30 | 9 | 39 |
| 15 | 676 | -49 | 4 | 26 | 680 | -45 | 5 | 4 | 688 | -44 | 9 | 25 | 696 | -41 | 7 | 32 | 701 | -37 | 7 | 39 | 702 | -26 | 6 | 26 | 705 | -30 | 8 | 37 |
| 18 | 676 | -49 | 4 | 26 | 681 | -46 | 6 | 5 | 689 | -43 | 6 | 28 | 697 | -40 | 7 | 25 | 701 | -38 | 7 | 33 | 703 | -28 | 8 | 32 | 705 | -31 | 9 | 30 |
| 21 | 677 | -49 | 4 | 25 | 682 | -48 | 5 | 9 | 691 | -44 | 7 | 28 | 697 | -39 | 7 | 26 | 700 | -37 | 10 | 40 | 704 | -27 | 6 | 28 | 706 | -31 | 5 | 39 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | day | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 706 | -32 | 6 | 45 | 712 | -32 | 2 | 80 | 710 | -30 | 5 | 90 | 702 | -36 | 10 | 63 | 701 | -36 | 6 | 36 | 702 | -34 | 7 | 28 | 707 | -33 | 6 | 53 |
| 03 | 707 | -33 | 7 | 39 | 712 | -33 | 5 | 97 | 709 | -32 | 4 | 104 | 702 | -35 | 9 | 60 | 701 | -36 | 8 | 35 | 702 | -35 | 7 | 22 | 706 | -33 | 7 | 53 |
| 06 | 708 | -32 | 6 | 42 | 712 | -33 | 3 | 106 | 708 | -32 | 5 | 70 | 701 | -36 | 9 | 64 | 701 | -36 | 8 | 46 | 703 | -34 | 6 | 16 | 705 | -32 | 8 | 35 |
| 09 | 709 | -32 | 5 | 40 | 712 | -33 | 3 | 87 | 708 | -32 | 6 | 68 | 701 | -36 | 9 | 57 | 701 | -36 | 8 | 39 | 704 | -35 | 6 | 18 | 705 | -31 | 8 | 36 |
| 12 | 710 | -34 | 4 | 45 | 712 | -34 | 3 | 105 | 707 | -33 | 5 | 98 | 701 | -36 | 9 | 45 | 701 | -36 | 9 | 40 | 706 | -34 | 7 | 12 | 705 | -31 | 8 | 30 |
| 15 | 710 | -31 | 4 | 52 | 712 | -32 | 2 | 99 | 706 | -32 | 9 | 84 | 701 | -35 | 7 | 46 | 700 | -35 | 7 | 36 | 706 | -31 | 6 | 16 | 705 | -31 | 8 | 25 |
| 18 | 711 | -31 | 2 | 63 | 711 | -31 | 3 | 94 | 704 | -35 | 9 | 80 | 701 | -35 | 9 | 35 | 700 | -35 | 8 | 33 | 707 | -29 | 6 | 15 | 705 | -32 | 7 | 18 |
| 21 | 712 | -32 | 3 | 119 | 710 | -30 | 3 | 105 | 703 | -36 | 8 | 75 | 701 | -36 | 6 | 26 | 701 | -35 | 7 | 26 | 707 | -31 | 6 | 42 | 706 | -32 | 8 | 19 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 708 | -31 | 6 | 11 | 708 | -30 | 7 | 32 | 704 | -28 | 11 | 29 | 708 | -30 | 6 | 32 | 712 | -31 | 5 | 28 | 710 | -29 | 5 | 53 | 706 | -29 | 5 | 43 |
| 03 | 709 | -29 | 8 | 8 | 707 | -30 | 9 | 30 | 705 | -29 | 9 | 32 | 708 | -30 | 6 | 28 | 712 | -30 | 5 | 30 | 709 | -29 | 5 | 56 | 706 | -29 | 6 | 37 |
| 06 | 709 | -32 | 7 | 16 | 706 | -29 | 11 | 39 | 705 | -29 | 7 | 28 | 709 | - 31 | 6 | 29 | 712 | -30 | 5 | 29 | 709 | -29 | 4 | 66 | 707 | -27 | 6 | 29 |
| 09 | 710 | -32 | 6 | 36 | 706 | -29 | 8 | 32 | 706 | -28 | 7 | 28 | 709 | -30 | 5 | 26 | 712 | -29 | 5 | 23 | 708 | -28 | 4 | 60 | 707 | -26 | 5 | 39 |
| 12 | 710 | -32 | 8 | 32 | 705 | -28 | 10 | 26 | 707 | -28 | 6 | 25 | 710 | -30 | 4 | 23 | 712 | -30 | 5 | 30 | 707 | -28 | 7 | 60 | 707 | -26 | 6 | 22 |
| 15 | 709 | -31 | 6 | 28 | 705 | -27 | 8 | 28 | 707 | -27 | 7 | 35 | 710 | -29 | 6 | 28 | 712 | -29 | 6 | 40 | 706 | -28 | 6 | 54 | 708 | -25 | 5 | 19 |
| 18 | 709 | -31 | 6 | 37 | 705 | -26 | 6 | 36 | 707 | -28 | 6 | 30 | 710 | -29 | 5 | 33 | 711 | -28 | 6 | 47 | 706 | -28 | 6 | 64 | 708 | -24 | 3 | 21 |
| 21 | 709 | -31 | 5 | 45 | 704 | -28 | 9 | 22 | 708 | -29 | 5 | 32 | 711 | -30 | 4 | 32 | 711 | -28 | 5 | 49 | 706 | -28 | 5 | 54 | 709 | -24 | 3 | 7 |
|  |  | DAY | 22 |  |  | day | 23 |  |  | day | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 709 | -23 | 3 | 7 | 712 | -26 | 5 | 15 | 709 | -26 | 7 | 42 | 707 | -27 | 5 | 53 | 705 | -27 | 4 | 67 | 697 | -27 | 5 | 59 | 695 | -26 | 4 | 352 |
| 03 | 710 | -26 | 3 | 25 | 712 | -26 | 5 | 33 | 709 | -26 | 8 | 43 | 707 | -27 | 5 | 59 | 705 | -28 | 6 | 71 | 696 | -28 | 5 | 59 | 695 | -27 | 5 | 347 |
| 06 | 710 | -27 | 4 | 36 | 713 | -26 | 7 | 36 | 708 | -26 | 8 | 42 | 707 | -26 | 5 | 53 | 704 | -28 | 6 | 67 | 695 | -28 | 6 | 50 | 695 | -26 | 4 | 5 |
| 09 | 710 | -27 | 4 | 40 | 713 | -26 | 6 | 32 | 708 | -26 | 8 | 43 | 707 | -26 | 6 | 56 | 703 | -27 | 6 | 78 | 694 | -27 | 6 | 49 | 696 | -27 | 3 | 338 |
| 12 | 710 | -27 | 4 | 22 | 713 | -27 | 6 | 45 | 708 | -26 | 5 | 50 | 707 | -26 | 5 | 52 | 702 | -28 | 6 | 66 | 694 | -28 | 6 | 30 | 696 | -27 | 1 | 326 |
| 15 | 710 | -26 | 5 | 33 | 712 | -27 | 5 | 22 | 707 | -26 | 5 | 49 | 707 | -25 | 5 | 64 | 701 | -27 | 6 | 63 | 694 | -28 | 6 | 23 | 696 | -24 | 1 | 35 |
| 18 | 711 | -26 | 6 | 22 | 711 | -26 | 6 | 49 | 707 | -26 | 6 | 50 | 707 | -25 | 4 | 81 | 700 | -27 | 6 | 66 | 694 | -27 | 3 | 358 | 697 | -25 | 1 | 171 |
| 21 | 711 | -26 | 6 | 11 | 710 | -26 | 5 | 43 | 707 | -27 | 4 | 53 | 706 | -26 | 5 | 74 | 699 |  | 5 | 61 |  |  | 8 |  | 697 | -28 | 2 | 101 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 697 | -26 | 1 | 139 | 701 | -30 | 3 | 67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 698 | -29 | 2 | 88 | 702 | -28 | 5 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 698 | -29 | 1 | 123 | 702 | -27 | 3 | 47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 699 | -30 | 2 | 99 | 703 | -28 | 4 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 699 | -29 | 2 | 108 | 703 | -28 | 5 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 700 | -29 | 3 | 84 | 703 | -24 | 5 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 700 | -29 | 3 | 78 | 703 | -26 | 6 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 701 | -31 | 4 | 77 | 703 | -26 | 7 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE ( $C$ ) * MEAN $=-31.9$ STD dEV $=6.5$ MAX $=-23.4$ AT 2340 GMT ON DAY 21 MIN $=-50.8$ AT 450 GMT ON DAY 1
* THETA (K) * MEAN $=266.93$
* PRESSURE (MB) * MEAN $=702.3$ STD DEV $=8.9$ MAX $=713.1 \mathrm{AT} 650$ GMT ON DAY 23 MIN $=673.3$ AT 0 GMT ON DAY 1
* WINDS (M/S) * MEAN $=5.8$ STD DEV $=2.0$ RESULTANT $=5.4$ FROM 38. CONSTANCY $=0.93$ MAX $=12.9$ FROM 35 . AT 20 GMT DAY 6
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 5 & 42 & 30 & 12 & 6 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1\end{array}$

STATION : 8985 HENRY
DEC 97
$\begin{array}{llrl}\text { HR } & \text { PP } & \text { TT VV } \\ & \text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 703 & -26 & 6 & 35\end{array}$
$\begin{array}{lllll}03 & 702 & -26 & 6 & 33\end{array}$
$\begin{array}{lllll}6 & 701 & -26 & 6 & 33\end{array}$
$\begin{array}{lllll} & 700 & -26 & 6 & 53\end{array}$
$\begin{array}{llll}2 & 699 & -26 & 6\end{array} 45$
$\begin{array}{lllll}15 & 699 & -24 & 6 & 45\end{array}$
$\begin{array}{lllll}18 & 699 & -24 & 4 & 29\end{array}$
$\begin{array}{lllll}21 & 699 & -24 & 4 & 22\end{array}$ DAY 8

| 00 | 693 | -26 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 692 & -25 & 2 & 54\end{array}$
$\begin{array}{lllll}06 & 692 & -29 & 3 & 18\end{array}$
$\begin{array}{lllll}09 & 692 & -28 & 4 & 42\end{array}$
$\begin{array}{lllll}12 & 692 & -28 & 6 & 45\end{array}$
$\begin{array}{lllll}15 & 692 & -26 & 5 & 67\end{array}$
$\begin{array}{lllll}18 & 692 & -26 & 6 & 52\end{array}$
$\begin{array}{lllll}21 & 692 & -26 & 4 & 56\end{array}$ DAY 15
$\begin{array}{lllll}00 & 693 & -24 & 3 & 68\end{array}$
$\begin{array}{lllll}03 & 693 & -24 & 2 & 67\end{array}$
$\begin{array}{lllll}06 & 694 & -26 & 3 & 43\end{array}$
$\begin{array}{lllll}09 & 695 & -26 & 4 & 39\end{array}$
$\begin{array}{lllll}12 & 696 & -28 & 5 & 33\end{array}$
$\begin{array}{lllll}15 & 696 & -26 & 6 & 46\end{array}$
$\begin{array}{lllll}18 & 696 & -26 & 7 & 57\end{array}$
$\begin{array}{llll}21 & 696 & -26 & 6\end{array} 56$ DAY 22
$\begin{array}{lllll}00 & 703 & -22 & 2 & 135\end{array}$
$\begin{array}{lllll}03 & 703 & -21 & 1 & 136\end{array}$
$\begin{array}{lllll}06 & 703 & -22 & 2 & 146\end{array}$
$\begin{array}{lllll}09 & 704 & -20 & 1 & 187\end{array}$
$\begin{array}{lllll}12 & 704 & -22 & 4 & 195\end{array}$
$\begin{array}{lllll}15 & 704 & -23 & 4 & 185\end{array}$
$\begin{array}{lllll}18 & 704 & -23 & 5 & 147\end{array}$
$\begin{array}{lllll}21 & 704 & -24 & 3 & 142\end{array}$

## DAY 29

$\begin{array}{lllll}00 & 695 & -22 & 6 & 95\end{array}$
$\begin{array}{lllll}03 & 694 & -22 & 4 & 77\end{array}$
$\begin{array}{lllll}06 & 694 & -21 & 5 & 70\end{array}$
$\begin{array}{lllll}09 & 694 & -22 & 5 & 64\end{array}$
$\begin{array}{lllll}12 & 694 & -22 & 4 & 60\end{array}$
$\begin{array}{lllll}15 & 695 & -22 & 4 & 67\end{array}$
$\begin{array}{lllll}18 & 695 & -20 & 3 & 52\end{array}$
$21 \quad 695-21 \quad 4 \quad 68$

| PP | TT | vV | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 700 | -26 | 5 | 18 | 706 | -26 | 3 | 36 |
| 701 | -26 | 3 | 36 | 706 | -25 | 3 | 39 |
| 702 | -26 | 5 | 16 | 706 | -26 | 3 | 39 |
| 702 | -26 | 5 | 2 | 706 | -25 | 3 | 35 |
| 703 | -26 | 6 | 355 | 706 | -25 | 3 | 12 |
| 704 | -25 | 4 | 360 | 706 | -22 | 1 | 360 |
| 705 | -25 | 4 | 25 | 707 | -22 | 2 | 205 |
| 706 | -26 | 5 | 33 | 707 | -23 | 3 | 247 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 692 | -27 | 3 | 81 | 691 | -27 | 3 | 32 |
| 692 | -27 | 4 | 66 | 691 | -26 | 3 | 52 |
| 692 | -27 | 3 | 81 | 691 | -24 | 1 | 77 |
| 692 | -27 | 3 | 88 | 692 | -24 | 0 | 0 |
| 692 | -27 | 3 | 84 | 692 | -23 | 2 | 340 |
| 691 | -26 | 3 | 84 | 692 | -24 | 1 | 167 |
| 691 | -25 | 2 | 77 | 693 | -24 | 1 | 108 |
| 691 | -26 | 2 | 40 | 693 | -27 | 2 | 120 |
|  | DAY | 16 |  |  | DAY | 17 |  |
| 696 | -26 | 5 | 43 | 694 | -27 | 5 | 16 |
| 696 | -27 | 6 | 43 | 693 | -27 | 6 | 21 |
| 696 | -27 | 8 | 42 | 692 | -25 | 3 | 60 |
| 696 | -27 | 7 | 40 | 692 | -26 | 5 | 360 |
| 695 | -27 | 7 | 42 | 694 | -27 | 6 | 348 |
| 694 | -26 | 6 | 59 | 695 | -27 | 5 | 1 |
| 693 | -25 | 4 | 60 | 695 | -26 | 6 | 5 |
| 693 | -26 | 7 | 11 | 696 | -27 | 6 | 9 |
| day 23 |  |  |  |  | DAY | 24 |  |
| 704 | -23 | 5 | 56 | 705 | -22 | 2 | 70 |
| 704 | -23 | 4 | 61 | 704 | -23 | 4 | 64 |
| 704 | -22 | 4 | 68 | 704 | -23 | 3 | 67 |
| 705 | -22 | 2 | 87 | 705 | -23 | 3 | 52 |
| 705 | -23 | 2 | 80 | 705 | -24 | 4 | 50 |
| 705 | -22 | 2 | 85 | 704 | -22 | 3 | 64 |
| 704 | -21 | 2 | 66 | 704 | -22 | 3 | 56 |
| 705 | -21 | 2 | 74 | 704 | -23 | 4 | 68 |
|  | DAY | 30 |  |  |  | 31 |  |
| 696 | -23 | 3 | 49 | 696 | -23 | 5 | 29 |
| 695 | -23 | 6 | 49 | 696 | -23 | 5 | 23 |
| 695 | -23 | 5 | 61 | 697 | -23 | 4 | 26 |
| 694 | -23 | 5 | 54 | 698 | -24 | 5 | 33 |
| 694 | -23 | 6 | 43 | 699 | -25 | 3 | 64 |
| 693 | -23 | 6 | 45 | 699 | -23 | 3 | 49 |
| 694 | -23 | 5 | 19 | 699 | -22 | 5 | 66 |
| 695 | -25 | 5 | 15 | 699 | -22 | 5 | 49 |

LAT : 89.01s LONG : 1.03W ELEVATION : 2755 M

| PP | TT |  | DD | PP | IT |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 707 | -23 | 2 | 181 | 699 | -26 | 4 | 125 | 692 | -26 | 4 | 118 | 696 | -26 | 2 | 136 |
| 706 | -24 | 3 | 201 | 697 | -26 | 4 | 95 | 692 | -25 | 3 | 125 | 695 | -27 | 2 | 154 |
| 706 | -27 | 2 | 172 | 696 | -25 | 5 | 92 | 693 | -24 | 3 | 123 | 695 | -27 | 4 | 153 |
| 705 | -27 | 2 | 126 | 695 | -23 | 8 | 108 | 694 | -25 | 2 | 120 | 695 | -26 | 5 | 156 |
| 704 | -27 | 3 | 123 | 695 | -24 | 7 | 122 | 694 | -25 | 2 | 139 | 695 | -28 | 4 | 167 |
| 70 | -25 | 3 | 153 | 693 | -24 | 5 | 125 | 694 | -23 | 2 | 133 | 694 | -26 | 4 | 171 |
| 70 | -24 | 4 | 130 | 693 | -26 | 7 | 115 | 695 | -24 | 2 | 161 | 694 | -26 | 4 | 164 |
| 700 | -26 | 3 | 150 | 692 | -26 | 5 | 118 | 695 | -25 | 3 | 158 | 693 | -26 | 3 | 157 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 694 | -26 | 2 | 153 | 695 | -29 | 4 | 108 | 689 | -26 | 4 | 94 | 690 | -24 | 2 | 25 |
| 694 | -24 | 0 | 0 | 695 | -28 | 4 | 98 | 688 | -26 | 5 | 87 | 691 | -24 | 2 | 61 |
| 694 | -25 | 1 | 130 | 694 | -27 | 4 | 122 | 687 | -25 | 4 | 78 | 692 | -25 | 1 | 108 |
| 694 | -27 | 2 | 164 | 694 | -27 | 5 | 112 | 687 | -24 | 5 | 57 | 692 | -26 | 3 | 71 |
| 694 | -29 | 3 | 112 | 693 | -27 | 5 | 113 | 687 | -25 | 5 | 52 | 692 | -27 | 3 | 75 |
| 694 | -28 | 2 | 116 | 692 | -26 | 7 | 98 | 687 | -25 | 4 | 33 | 692 | -25 | 3 | 66 |
| 695 | -28 | 4 | 126 | 691 | -26 | 6 | 90 | 688 | -24 | 4 | 14 | 693 | -25 | 5 | 43 |
| 695 | -29 | 4 | 113 | 690 | -26 | 4 | 92 | 689 | -24 | 2 | 7 | 693 | -24 | 3 | 67 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 696 | -28 | 6 | 28 | 692 | -24 | 6 | 29 | 693 | -21 | 5 | 18 | 702 | -20 | 4 | 25 |
| 696 | -27 | 5 | 23 | 690 | -24 | 8 | 45 | 694 | -22 | 6 | 351 | 703 | -20 | 2 | 29 |
| 696 | -27 | 6 | 49 | 689 | -23 | 8 | 43 | 696 | -23 | 6 | 360 | 703 | -20 | 3 | 12 |
| 695 | -25 | 9 | 14 | 689 | -22 | 8 | 29 | 698 | -23 | 6 | 18 | 703 | -17 | 1 | 360 |
| 694 | -25 | 6 | 21 | 689 | -22 | 7 | 25 | 699 | -23 | 6 | 39 | 702 | -18 | 1 | 165 |
| 69 | -24 | 6 | 23 | 690 | -21 | 8 | 14 | 699 | -20 | 7 | 22 | 702 | -19 | 2 | 165 |
| 693 | -24 | 9 | 15 | 690 | -21 | 6 | 8 | 701 | -21 | 4 | 355 | 702 | -20 | 1 | 133 |
| 69 | -23 | 7 | 19 | 691 | -22 | 5 | 11 | 702 | -20 | 3 | 28 | 702 | -20 | 2 | 135 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 704 | -23 | 4 | 77 | 698 | -23 | 5 | 52 | 703 | -23 | 2 | 135 | 703 | -23 | 5 | 109 |
| 70 | -24 | 4 | 91 | 698 | -23 | 4 | 50 | 703 | -20 | 1 | 57 | 702 | -23 | 5 | 112 |
| 703 | -24 | 5 | 80 | 698 | -23 | 4 | 42 | 704 | -20 | 2 | 56 | 701 | -23 | 5 | 94 |
| 702 | -24 | 4 | 85 | 698 | -23 | 5 | 28 | 704 | -19 | 2 | 18 | 700 | -23 | 5 | 82 |
| 70 | -24 | 4 | 68 | 699 | -23 | 3 | 16 | 705 | -20 | 2 | 39 | 699 | -23 | 6 | 74 |
| 700 | -23 | 5 | 71 | 699 | -22 | 3 | 360 | 704 | -21 | 4 | 95 | 698 | -22 | 6 | 73 |
| 699 | -22 | 5 | 66 | 701 | -21 | 2 | 347 | 704 | -21 | 3 | 97 | 697 | -22 | 6 | 75 |
| 69 | -22 | 5 | 67 | 702 | -20 | 1 | 293 | 704 | -21 | 5 | 111 | 696 | -22 | 4 | 75 |

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-24.1$ STD DEV $=2.3$ MAX $=-15.9$ AT 1100 GMT ON DAY 21 MIN $=-29.1$ AT 1140 GMT ON dAY 11
* theta (K) * mean $=276.13$
* PRESSURE (MB) * MEAN $=697.0$ STD DEV $=5.1$ MAX $=706.8$ AT 1910 GMT ON DAY 3 MIN $=686.6$ AT 740 GMT ON DAY 13
* WINDS (M/S) * MEAN $=4.0$ STD DEV $=1.8$ RESULTANT $=2.9$ fROM 58. CONSTANCY $=0.73$ MAX $=10.7$ FROM 360 . AT 930 GMT DAY 18
* MISSING 3-hourly observations * temperature: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 16 & 35 & 35 & 12 & 2 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 7 & 18 & 20 & 18 & 10 & 9 & 7 & 7 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 1\end{array}$

JAN 97
HR PP TT WV DD PP TT VV DD PP TT VV DD

|  |  | DAY | 1 |  |
| :--- | :--- | :--- | :--- | ---: |
| 00 | 690 | -23 | 2 | 347 |
| 03 | 690 | -22 | 2 | 360 |
| 06 | 690 | -23 | 2 | 355 |
| 09 | 690 | -24 | 2 | 343 |
| 12 | 691 | -25 | 2 | 57 |
| 15 | 691 | -24 | 2 | 50 |
| 18 | 691 | -23 | 3 | 42 |
| 21 | 691 | -23 | 4 | 12 |
|  |  | DAY | 8 |  |
| 00 | 681 | -22 | 2 | 19 |
| 03 | 681 | -19 | 0 | 0 |
| 06 | 682 | -16 | 0 | 0 |
| 09 | 683 | -19 | 1 | 302 |
| 12 | 684 | -23 | 2 | 340 |
| 15 | 685 | -24 | 2 | 305 |
| 18 | 687 | -23 | 2 | 33 |
| 21 | 687 | -24 | 2 | 360 |

$\begin{array}{lllll}00 & 691 & -27 & 3 & 61\end{array}$
$\begin{array}{lllll}03 & 691 & -27 & 4 & 60\end{array}$
$\begin{array}{lllll}06 & 690 & -26 & 6 & 37\end{array}$
$\begin{array}{lllll}09 & 690 & -27 & 5 & 37\end{array}$
$\begin{array}{lllll}12 & 690 & -27 & 5 & 26\end{array}$
$\begin{array}{lllll}15 & 690 & -27 & 5 & 26\end{array}$
$\begin{array}{lllll}18 & 690 & -26 & 4 & 56\end{array}$
$\begin{array}{lllll}21 & 690 & -27 & 4 & 70\end{array}$ DAY 22
$\begin{array}{lllll}00 & 692 & -30 & 4 & 7\end{array}$
$\begin{array}{lllll}03 & 692 & -30 & 3 & 9\end{array}$
$\begin{array}{lllll}06 & 693 & -31 & 3 & 8\end{array}$
$\begin{array}{lllll}09 & 693 & -31 & 2 & 82\end{array}$
$\begin{array}{lllll}12 & 692 & -33 & 4 & 88\end{array}$
$\begin{array}{lllll}15 & 692 & -33 & 3 & 111\end{array}$
$\begin{array}{lllll}18 & 691 & -33 & 5 & 94\end{array}$
$\begin{array}{lllll}21 & 691 & -33 & 4 & 94\end{array}$
DAY 29
$\begin{array}{lllll}00 & 686 & -35 & 4 & 119\end{array}$
$\begin{array}{lllll}03 & 685 & -36 & 3 & 140\end{array}$
$\begin{array}{lllll}06 & 685 & -36 & 4 & 118\end{array}$
$\begin{array}{lllll}09 & 685 & -36 & 3 & 125\end{array}$
$\begin{array}{lllll}12 & 685 & -38 & 3 & 127\end{array}$
$\begin{array}{lllll}15 & 685 & -37 & 3 & 129\end{array}$
$\begin{array}{lllll}18 & 686 & -37 & 2 & 137\end{array}$
$\begin{array}{llll}21 & 686 & -36 & 2150\end{array}$

DAY 2
691-24 $4 \quad 16$
691-24 $4 \quad 29$
691-25 $4 \quad 22$
$690-25 \quad 4 \quad 19$
691-25 $4 \quad 15$
690 - $24 \quad 4 \quad 35$
690-24 $3 \quad 52$
690-24 $3 \quad 70$
DAY 9
688 -25 1360
689-25 2360
$689-24 \quad 4350$
$\begin{array}{llll}691 & -26 & 3 & 15\end{array}$
$\begin{array}{llll}691 & -26 & 3 & 19\end{array}$
$\begin{array}{llll}691 & -26 & 4 & 29\end{array}$
$\begin{array}{llll}691 & -25 & 4 & 4\end{array}$
DAY 16
689-27 $5 \quad 81$
$688-28 \quad 4 \quad 106$
$\begin{array}{llll}688 & -29 & 5 & 81\end{array}$
$\begin{array}{llll}688 & -29 & 5 & 81\end{array}$
$\begin{array}{llll}688 & -30 & 5 & 87\end{array}$
688-29 $\quad 4 \quad 74$
688 - $29 \quad 4 \quad 84$
688-28 $\quad 3 \quad 77$ DAY 23
$\begin{array}{llll}691 & -33 & 5 & 90\end{array}$
$\begin{array}{llll}690 & -32 & 4 & 82\end{array}$
$\begin{array}{llll}690 & -32 & 3 & 90\end{array}$
$\begin{array}{llll}690 & -31 & 3 & 40\end{array}$
691-32 $\quad 3 \quad 12$
691-29 0 0
691-32 3360
691-31 3360
DAY 30
687-36 2157
687-37 2133
$\begin{array}{ccc}688 & -36 & 2139\end{array}$
689-36 $\quad 2132$
689-38 1139
690 $-36 \quad 1122$
690 $-36 \quad 1133$
$690 \quad-37 \quad 2143$

DAY 3
$\begin{array}{llll}689 & -24 & 3 & 63\end{array}$
$689-24 \quad 4 \quad 40$
$\begin{array}{llll}689 & -23 & 4 & 37\end{array}$
688-24 $4 \quad 49$
$688-25 \quad 4 \quad 30$
$687-25 \quad 6 \quad 32$
687-25 $7 \quad 32$
$\begin{array}{llll}687 & -24 & 5 & 19\end{array}$ DAY 10
$\begin{array}{llll}692 & -25 & 3 & 4\end{array}$
$\begin{array}{lll}692 & -25 & 2\end{array}$
692-25 2360
692-22 0
692-28 0
691-25 0
$691-26 \quad 1125$
691-26 1129 DAY 17
$\begin{array}{llll}689 & -28 & 4 & 84\end{array}$
$\begin{array}{llll}689 & -25 & 2 & 37\end{array}$
$\begin{array}{llll}690 & -26 & 2 & 12\end{array}$
691-26 15
692-28 $2 \quad 22$
692-28 235
693-28 3 46
694-28 $3 \quad 56$ DAY 24

692-31 218
$\begin{array}{llll}691 & -33 & 3 & 18\end{array}$
$\begin{array}{llll}691 & -32 & 3 & 9\end{array}$
$\begin{array}{llll}691 & -33 & 2 & 14\end{array}$
$\begin{array}{llll}691 & -34 & 3 & 22\end{array}$
$\begin{array}{llll}690 & -33 & 3 & 7\end{array}$
$\begin{array}{llll}690 & -33 & 2 & 68\end{array}$
$\begin{array}{llll}689 & -35 & 4 & 46\end{array}$ DAY 31
690-36 1111
689 -34 0
$\begin{array}{llll}689 & -37 & 3 & 108\end{array}$
$\begin{array}{llll}688 & -37 & 3 & 104\end{array}$
$\begin{array}{llll}688 & -39 & 4 & 116\end{array}$
$\begin{array}{llll}688 & -38 & 3 & 113\end{array}$
$\begin{array}{llll}687 & -38 & 3 & 108\end{array}$
$687-38 \quad 3113$

PP TT VV DD PP TT VV DD PP TT. VV DD

$$
\text { DAY } 4
$$

$\begin{array}{llll}687 & -24 & 6 & 12\end{array}$
$\begin{array}{llll}686 & -23 & 7 & 15\end{array}$
$\begin{array}{llll}686 & -24 & 8 & 11\end{array}$
$\begin{array}{llll}686 & -23 & 8 & 1\end{array}$
$686-23 \quad 6360$
$685-224360$
$685-215360$
$686-217358$
DAY 11
691-26 3140
690-25 1116
690-26 2116
690-27 2129
$\begin{array}{llll}690 & -28 & 3 & 113\end{array}$
$\begin{array}{llll}690 & -26 & 3 & 125\end{array}$
$690-26 \quad 2143$
$\begin{array}{llll}690 & -26 & 133\end{array}$

## DAY 18

$\begin{array}{llll}694 & -29 & 3 & 74\end{array}$
$\begin{array}{llll}694 & -28 & 3 & 77\end{array}$
$\begin{array}{llll}694 & -28 & 5 & 102\end{array}$
$\begin{array}{llll}694 & -28 & 3 & 125\end{array}$
$\begin{array}{llll}695 & -29 & 5 & 133\end{array}$
$694-29 \quad 2136$
694-28 1139
693-27 1129
DAY 25
689 -33 447
$\begin{array}{llll}688 & -31 & 7 & 26\end{array}$
688-31 51
687-30 $\quad 7 \quad 11$
$\begin{array}{llll}687 & -30 & 7 & 16\end{array}$
$\begin{array}{llll}686 & -30 & 9 & 360\end{array}$
$\begin{array}{llll}686 & -28 & 7 & 5\end{array}$
686-27 5355

DAY 5
$685-224$
$\begin{array}{llllllll}685 & -22 & 4 & 5 & 683 & -26 & 5 & 126\end{array}$
$\begin{array}{llllllll}685 & -22 & 4 & 16 & 682 & -26 & 5 & 98\end{array}$
$\begin{array}{llllllll}685 & -23 & 3 & 26 & 681 & -26 & 4 & 88\end{array}$
$\begin{array}{llllllll}685 & -22 & 4 & 11 & 681 & -25 & 3 & 82\end{array}$
$\begin{array}{llllllll}685 & -22 & 3 & 11 & 680 & -24 & 4 & 70\end{array}$
$\begin{array}{llllllll}685 & -23 & 3 & 9 & 679 & -24 & 4 & 64\end{array}$
DAY 13
$\begin{array}{llllllll}691 & -26 & 1 & 133 & 692 & -27 & 3 & 92\end{array}$
$\begin{array}{llllllll}691 & -25 & 1 & 132 & 692 & -27 & 3 & 90\end{array}$
$\begin{array}{lllllll}691 & -25 & 1 & 136 & 692 & -27 & 2\end{array} 101$
$\begin{array}{llllllll}691 & -24 & 1 & 142 & 692 & -28 & 2 & 90\end{array}$
$\begin{array}{llllllll}691 & -24 & 0 & 0 & 692 & -29 & 2 & 90\end{array}$
$\begin{array}{lllllll}691 & -26 & 1 & 118 & 691 & -28 & 2\end{array} 95$
$\begin{array}{llllllll}691 & -26 & 2 & 92 & 691 & -27 & 2 & 88\end{array}$
$\begin{array}{llllllll}692 & -25 & 2 & 82 & 691 & -26 & 2 & 71\end{array}$ DAY 20
$\begin{array}{llll}691 & -31 & 4 & 92\end{array}$
$\begin{array}{llll}692 & -31 & 4 & 82\end{array}$
$\begin{array}{llll}692 & -30 \quad 4 & 75\end{array}$
$692-29 \quad 4 \quad 66$
$\begin{array}{llll}692 & -30 \quad 4 & 60\end{array}$
692-30 $4 \quad 61$
692-29 $4 \quad 50$
692-29 $5 \quad 52$ DAY 27
689-27 2344
$689-28 \quad 1355$
$\begin{array}{llll}690 & -29 & 2 & 8\end{array}$
$\begin{array}{lll}690 & -29 & 2\end{array}$
$\begin{array}{llll}691 & -31 & 1 & 36\end{array}$
$690 \quad-32 \quad 2 \quad 37$
$\begin{array}{llll}691 & -32 & 1120\end{array}$
691-32 $2 \quad 68$

PP TT VV DD
DAY 7
$\begin{array}{llll}679 & -24 & 4 & 64\end{array}$
$\begin{array}{llll}679 & -23 & 4 & 57\end{array}$
$\begin{array}{rrrr}679 & -23 & 6 & 9\end{array}$
$\begin{array}{llll}679 & -22 & 6 & 16\end{array}$
$680-23 \quad 4360$
$680-21 \quad 0 \quad 0$

680 -22 240 DAY 14
$\begin{array}{llll}691 & -27 & 2 & 77\end{array}$
691-27 2 68
691-27 252
$\begin{array}{llll}691 & -26 & 2 & 37\end{array}$
$\begin{array}{llll}692 & -28 & 2 & 71\end{array}$
692-27 256
$\begin{array}{ccc}692 & -28 \quad 2 \quad 67\end{array}$
$\begin{array}{llll}691 & -27 \quad 4 \quad 30\end{array}$
DAY 21
$\begin{array}{llll}692 & -29 & 39\end{array}$
$\left.\begin{array}{llll}692 & -29 & 4 & 43 \\ 692 & -29 & 3 & 23\end{array} \right\rvert\,$
$\begin{array}{llll}692 & -30 & 3 & 18\end{array}$
$\begin{array}{rrrr}692 & -29 & 2 & 360 \\ 692 & -27 & 3 & 4\end{array}$
$\begin{array}{llll}692 & -30 \quad 4 & 11\end{array}$
692-29 38
DAY 28
$\begin{array}{llll}691 & -34 & 1 & 95\end{array}$
$\begin{array}{llll}690 & -33 & 2 & 92\end{array}$
$\begin{array}{llll}690 & -33 & 2 & 108\end{array}$
$689-34 \quad 4143$
689-35 3130
$\begin{array}{llll}688 & -34 & 3 & 119\end{array}$
$\begin{array}{llll}687 & -34 & 3 & 130\end{array}$
$\begin{array}{llll}686 & -34 & 3 & 102\end{array}$

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-28.0$ STD DEV $=4.4$ MAX $=-15.9$ AT 610 GMT ON DAY 8 MIN $=-38.8$ AT 1150 GMT ON DAY 31
* THETA (K) * MEAN $=272.69$
* PRESSURE (MB) * MEAN $=689.0$ STD DEV $=3.2$ MAX $=694.5$ AT 910 GMT ON DAY 18 MIN $=678.7$ AT 330 GMT ON DAY 7
* WINDS (M/S) * MEAN $=3.1$ STD DEV $=1.6$ RESULTANT $=2.2$ FROM 49. CONSTANCY $=0.70$ MAX $=10.0$ FROM 35 . AT 1440 GMT DAY 3
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \% \quad$ WINDS: $0.8 \%$


PERCENT
$\begin{array}{llllllllllllllll}20 & 14 & 11 & 11 & 14 & 11 & 13 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 4\end{array}$

FEB

| HR | PP | TT | VV | DD |
| :--- | :--- | ---: | ---: | ---: |
|  | DAY |  |  |  |
| 0 | 1 |  |  |  |
| 00 | 687 | -38 | 4 | 108 |
| 03 | 687 | -37 | 4 | 112 |
| 06 | 687 | -38 | 3 | 104 |
| 09 | 687 | -38 | 3 | 91 |
| 12 | 687 | -39 | 3 | 92 |
| 15 | 688 | -38 | 2 | 88 |


|  | DAY |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 0 | 8 |  |  |  |
| 00 | 688 | -40 | 2 | 63 |
| 03 | 688 | -40 | 4 | 57 |
| 06 | 688 | -40 | 3 | 49 |
| 09 | 688 | -38 | 3 | 49 |
| 12 | 688 | -40 | 3 | 78 |
| 15 | 687 | -41 | 4 | 87 |
| 18 | 685 | -41 | 3 | 90 |
| 21 | 684 | -40 | 4 | 82 |
|  |  | DAY | 15 |  |
| 00 | 682 | -40 | 1 | 36 |
| 03 | 683 | -40 | 2 | 35 |
| 06 | 683 | -42 | 2 | 30 |
| 09 | 683 | -42 | 2 | 42 |
| 12 | 683 | -45 | 2 | 75 |
| 15 | 683 | -43 | 2 | 82 |
| 18 | 682 | -42 | 5 | 74 |
| 21 | 682 | -42 | 3 | 70 |
|  |  | DAY | 22 |  |
| 00 | 678 | -49 | 5 | 56 |
| 03 | 678 | -50 | 3 | 56 |
| 06 | 678 | -50 | 3 | 66 |
| 09 | 678 | -51 | 3 | 88 |
| 12 | 678 | -50 | 3 | 66 |
| 15 | 678 | -49 | 4 | 67 |
| 18 | 678 | -49 | 2 | 108 |
| 21 | 678 | -48 | 3 | 66 |
|  |  |  |  |  |




MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-43.3$ std dev $=5.6$ max $=-31.8$ at 40 GMT ON day 10 min $=-54.4$ At 1310 GMt ON dAY 26
* theta (K) * MEAN $=256.35$
* PRESSURE (MB) * MEAN $=682.8$ STD DEV $=6.2$ MAX $=695.8$ AT 2030 GMT ON DAY 2 MIN $=671.2$ AT 1050 GMT ON DAY 28 * WINDS ( $\mathrm{M} / \mathrm{S}$ ) * MEAN $=3.2 \mathrm{StD}$ dev $=1.7$ RESULTANT $=2.6$ fROM 63 . CONSTANCY $=0.81 \mathrm{mAX}=10.8$ FROM 18 . AT 1520 GMT DAY 12 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.1 \%$ PRESSURE: $3.1 \%$ WINDS: 3.6 \%

WIND SPEED (M/S): 0-2 2-4 $4-6$ 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT:
WIND DIRECTION:
PERCENT
$\begin{array}{rrrrrrrrrrrrrrrr}\text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW } \\ 8 & 12 & 13 & 23 & 22 & 15 & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 674 | -44 | 5 | 25 | 679 | -50 | 2 | 115 | 678 | -49 | 3 | 97 |
| 03 | 674 | -46 |  |  | 679 | -49 | 2 | 102 | 678 | -49 | 4 | 78 |
| 06 | 675 | -47 | 3 | 45 | 679 | -49 | 5 | 111 | 678 | -49 | 3 | 84 |
| 09 | 676 | -50 | 2 | 97 | 679 | -48 | 5 | 113 | 678 | -50 | 3 | 81 |
| 12 | 677 | -52 | 2 | 77 | 678 | -49 | 5 | 111 | 678 | -51 | 3 | 80 |
| 15 | 678 | -51 | 2 | 82 | 678 | -49 | 5 | 99 | 678 | -51 | 3 | 97 |
| 18 | 678 | -50 | 2 | 81 | 678 | -49 | 3 | 97 | 678 | -52 | 3 | 82 |
| 21 | 679 | -50 | 3 | 105 | 678 | -49 | 4 | 112 | 677 | -52 | 3 | 80 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 670 | -57 | 3 | 78 | 674 | -58 | 2 | 108 | 672 | -55 | 3 | 85 |
| 03 | 670 | -57 | 3 | 71 | 673 | -56 | 3 | 106 | 671 | -56 | 4 | 80 |
| 06 | 671 | -57 | 3 | 74 | 673 | -57 | 5 | 87 | 671 | -56 | 5 | 85 |
| 09 | 672 | -57 | 4 | 42 | 672 | -56 | 4 | 84 | 670 | -57 | 3 | 98 |
| 12 |  |  |  |  | 672 | -57 | 4 | 88 | 670 | -56 | 3 | 88 |
| 15 | 674 | -58 | 2 | 68 | 672 | -56 | 4 | 78 | 669 | -57 | 5 | 82 |
| 18 | 674 | -59 | 2 | 74 | 672 | -56 | 3 | 82 | 668 | -57 | 4 | 80 |
| 21 | 674 | -58 | 3 | 81 | 672 | -56 | 4 | 81 | 668 | -55 | 5 | 67 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 675 | -52 | 3 | 126 | 671 | -58 | 3 | 99 | 669 | -61 | 3 | 84 |
| 03 | 674 | -52 | 4 | 108 | 671 | -58 | 3 | 90 | 669 | -61 | 3 | 81 |
| 06 | 674 | -55 | 3 | 115 | 671 | -57 | 3 | 82 | 669 | -63 | 3 | 63 |
| 09 | 673 | -56 | 3 | 118 | 671 | -58 | 3 | 70 | 670 | -62 | 2 | 68 |
| 12 | 673 | -55 | 4 | 115 | 670 | -57 | 3 | 68 | 670 | -61 | 4 | 71 |
| 15 | 672 | -56 | 2 | 112 | 670 | -56 | 2 | 82 | 671 | -61 | 4 | 61 |
| 18 | 672 | -57 | 2 | 115 | 670 | -59 | 2 | 78 | 671 | -58 | 4 | 60 |
| 21 | 671 | -59 | 4 | 116 | 669 | -59 | 3 | 78 | 672 | -59 | 5 | 54 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 684 | -51 | 2 | 36 | 683 | -56 | 5 | 118 | 680 | -59 | 5 | 99 |
| 03 | 684 | -51 | 3 | 39 | 682 | -56 | 5 | 116 | 680 | -61 | 5 | 104 |
| 06 | 684 | -53 | 2 | 52 | 682 | -56 | 5 | 111 | 679 | -62 | 4 | 90 |
| 09 | 684 | -50 | 4 | 82 | 681 | -55 | 6 | 112 | 679 | -62 | 7 | 94 |
| 12 | 683 | -54 | 2 | 113 | 681 | -56 | 6 | 108 | 679 | -63 | 7 | 104 |
| 15 | 683 | -57 | 1 | 142 | 681 | -56 | 6 | 94 | 679 | -64 | 4 | 105 |
| 18 | 683 | -56 | 3 | 118 | 680 | -57 | 5 | 101 | 680 | -65 |  |  |
| 21 | 683 | -56 | 6 | 111 | 680 | -58 | 5 | 106 | 680 | -65 | 4 | 104 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  | 31 |  |
| 00 | 672 | -59 | 6 | 28 | 674 | -62 | 3 | 80 | 673 | -62 | 4 | 59 |
| 03 | 672 | -59 | 6 | 30 | 673 | -61 | 3 | 73 | 673 | -63 | 3 | 56 |
| 06 | 673 | -58 | 5 | 30 | 673 | -61 | 3 | 60 | 672 | -63 | 3 | 68 |
| 09 | 673 | -57 | 6 | 15 | 673 | -63 | 3 | 71 | 672 | -64 | 3 | 64 |
| 12 | 674 | -57 | 7 | 19 | 673 | -63 | 2 | 98 | 672 | -63 | 4 | 54 |
| 15 | 675 | -57 | 6 | 29 | 673 | -63 | 4 | 70 | 671 | -63 | 2 | 98 |
| 18 | 675 | -58 | 5 | 45 | 673 | -65 | 2 | 87 | 671 | -62 | 5 | 56 |
| 21 | 674 | -58 | 4 | 43 | 673 | -63 | 4 | 60 | 671 | -60 | 5 | 40 |


| PP |  |  | DD | PP |  |  | DD | PP | tt |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 677 | -52 | 4 | 64 | 674 | -55 | 2 | 102 | 679 | -52 | 5 | 19 | 675 | -49 | 7 | 54 |
| 677 | -53 | 4 | 80 | 675 | -55 | 2 | 73 | 679 | -51 | 5 | 36 |  |  |  |  |
| 676 | -54 | 3 | 82 | 675 | -56 | 1 | 75 | 679 | -51 | 6 | 56 | 674 | -47 | 5 | 60 |
| 676 | -53 | 3 | 87 | 676 | -55 | 5 | 16 | 678 | -51 | 7 | 21 | 674 | -50 | 4 | 66 |
| 675 | -55 | 3 | 81 | 677 | -55 | 5 | 8 | 678 | -51 | 6 | 40 | 673 | -53 | 4 | 77 |
| 674 | -54 | 4 | 77 | 678 | -53 | 5 | 360 | 678 | -50 | 5 | 66 | 672 | -54 | 3 | 104 |
| 674 | -53 | 3 | 111 | 679 | -53 | 4 | 18 | 677 | -50 | 6 | 46 | 671 | -55 | 3 | 91 |
| 673 | -55 | 3 | 84 | 679 | -52 | 3 | 49 | 676 | -49 | 7 | 42 | 670 | -56 | 3 | 82 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 668 | -55 | 5 | 70 | 669 | -47 | 7 | 46 | 666 | -47 | 3 | 56 | 674 | -51 | 3 | 71 |
| 668 | -54 | 5 | 67 | 668 | -44 | 9 | 43 | 666 | -49 | 4 | 37 | 675 | -54 | 2 | 136 |
| 668 | -54 | 4 | 80 | 667 | -44 | 8 | 43 | 667 | -50 | 4 | 28 | 675 | -51 | 2 | 75 |
| 669 | -52 | 5 | 50 | 666 | -43 | 10 | 19 | 668 | -51 | 3 | 26 | 675 | -49 | 3 | 92 |
| 670 | -54 | 5 | 63 | 666 | -45 | 8 | 26 | 670 | -56 | 3 | 63 | 675 | -46 | 2 | 139 |
| 670 | -52 | 4 | 61 | 665 | -46 | 9 | 22 | 671 | -55 | 2 | 75 | 675 | -48 | 2 | 108 |
| 670 | -52 | 5 | 66 | 666 | -49 | 5 | 54 |  |  |  |  | 675 | -50 | 3 | 104 |
| 669 | -51 | 5 | 61 | 666 | -46 | 6 | 33 | 673 | -52 | 2 | 67 | 675 | -51 | 3 | 120 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 672 | -60 | 3 | 73 | 675 | -51 | 7 | 42 |  | -47 | 6 | 32 | 679 | -60 | 1 | 97 |
| 672 | -60 | 3 | 66 | 675 | -51 | 7 | 29 |  | -47 | 8 | 25 | 680 | -56 | 3 | 63 |
| 673 | -60 | 3 | 75 | 676 | -50 | 5 | 40 |  | -47 | 4 | 19 | 681 | -54 | 2 | 67 |
| 673 | -58 | 2 | 77 |  | -50 | 9 | 25 |  | -48 | 4 | 16 | 682 | -54 | 2 | 49 |
| 674 | -55 | 3 | 71 |  | -50 | 6 | 25 |  | -49 | 5 | 21 | 683 | -52 | 3 | 77 |
| 674 | -54 | 5 | 54 | 680 | -48 | 6 | 21 | 677 | -52 | 3 | 45 | 684 | -51 | 2 | 67 |
| 675 | -52 | 6 | 39 |  | -47 | 8 | 23 | 676 | -56 | 2 | 70 | 684 | -53 | 0 | 0 |
| 675 | -51 | 7 | 39 |  | -46 | 6 | 32 | 678 | -58 | 2 | 64 | 684 | -53 | 2 | 52 |
|  | day | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 680 | -65 | 4 | 111 | 677 | -67 | 2 | 123 | 672 | -69 | 2 | 88 | 673 | -61 | 5 | 46 |
| 680 | -65 | 4 | 102 | 675 | -67 | 4 | 105 | 672 | -69 | 2 | 95 | 673 | -62 | 4 | 57 |
| 680 | -65 | 5 | 112 | 675 | -67 | 0 | 0 | 672 | -68 | 3 | 90 | 672 | -62 | 4 | 53 |
| 679 | -67 | 4 | 111 | 674 | -67 | 3 | 115 | 673 | -68 | 3 | 74 | 672 | -61 | 5 | 52 |
| 679 | -67 | 4 | 104 | 673 | -67 | 4 | 98 | 673 | -67 | 3 | 67 | 672 | -61 | 5 | 36 |
| 679 | -66 | 2 | 115 | 673 | -68 | 2 | 109 | 673 | -65 | 2 | 67 | 672 | -60 | 6 | 30 |
| 678 | -67 | 4 | 99 | 672 | -68 |  | 102 | 673 | -65 | 4 | 57 | 672 | -60 | 5 | 33 |
| 677 | -67 | 2 | 105 | 672 | -69 | 0 | 0 | 673 | -62 | 4 | 42 | 672 | -60 | 7 | 18 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-55.7$ Std dev $=5.9$ max $=-42.6$ at 1000 GMt ON DAY 12 MIN $=-69.4$ At 2140 GMt ON DAY 26
* theta (K) * MEAN $=243.01$
* PRESSURE (MB) * MEAN $=674.5$ STD DEV $=4.3$ MAX $=684.3$ AT 2240 GMT ON DAY 21 MIN $=665.3$ AT 1450 GMT ON DAY 12
* WINDS (M/S) * MEAN $=3.8$ STD DEV $=1.7$ RESULTANT $=3.3$ FROM 66. CONSTANCY $=0.86 \mathrm{MAX}=11.8$ FROM 29. AT 450 GMT DAY 12
* MISSING 3-hOURLY ObSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $4.8 \%$ WINDS: $2.0 \%$
 PERCENT: WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} & 1 & 13 & 16 & 25 & 23 & 20 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

APR 97

| HR | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | dAY | 3 |  |
| 00 | 671 | -59 | 6 | 29 | 674 | -64 | 3 | 57 |  |  |  |  |
| 03 | 671 | -62 | 3 | 68 | 674 | -67 | 3 | 66 |  |  |  |  |
| 06 | 671 | -61 | 4 | 43 | 674 | -63 | 5 | 52 | 683 | -63 | 3 | 92 |
| 09 | 672 | -62 | 4 | 53 | 676 | -62 | 5 | 21 | 683 | -64 | 2 | 118 |
| 12 | 672 | -62 | 5 | 56 | 677 | -60 | 5 | 32 | 684 | -64 | 2 | 102 |
| 15 | 673 | -61 | 3 | 50 | 678 | -59 | 5 | 37 | 684 | -65 | 1 | 136 |
| 18 | 673 | -62 | 4 | 54 | 679 | -59 | 4 | 43 | 684 | -66 | 4 | 104 |
| 21 | 673 | -64 | 4 | 56 | 681 | -58 | 3 | 64 | 684 | -66 | 4 | 111 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 682 | -42 | 3 | 327 | 676 | -46 | 4 | 5 | 671 | -49 | 7 | 4 |
| 03 | 681 | -43 | 3 | 360 | 675 | -47 | 5 | 360 | 671 | -49 | 6 | 9 |
| 06 | 680 | -43 | 3 | 360 | 674 | -47 | 4 | 7 | 670 | -50 | 7 | 4 |
| 09 | 680 | -43 | 5 | 352 | 673 | -47 | 5 | 357 | 671 | -53 | 5 | 9 |
| 12 | 679 | -44 | 3 | 358 | 673 | -47 | 4 | 357 | 671 | -54 | 6 | 22 |
| 15 | 678 | -44 | 3 | 1 | 672 | -47 | 5 | 360 | 670 | -55 | 7 | 30 |
| 18 | 678 | -44 | 4 | 360 | 671 | -48 | 6 | 4 | 670 | -55 | 5 | 9 |
| 21 | 677 | -45 | 4 | 360 | 671 | -49 | 8 | 360 | 670 | -57 | 7 | 21 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 677 | -60 | 3 | 4 | 687 | -58 | 6 | 29 |  | -50 | 8 | 9 |
| 03 | 679 | -60 | 6 | 9 | 688 | -57 | 6 | 23 |  | -47 | 8 | 5 |
| 06 | 680 | -61 | 6 | 2 | 688 | -56 | 9 | 21 | 695 | -46 | 9 | 360 |
| 09 | 682 | -60 | 7 | 18 | 688 | -53 | 10 | 12 | 693 | -45 | 9 | 16 |
| 12 | 683 | -58 | 7 | 15 |  | -51 | 11 | 12 | 694 | -44 | 8 | 14 |
| 15 | 684 | -59 | 7 | 33 |  | -50 | 11 | 7 |  | -44 | 8 | 4 |
| 18 | 686 | -58 | 7 | 19 |  | -51 | 9 | 5 |  | -43 | 11 | 360 |
| 21 | 687 | -58 | 6 | 19 |  | -50 | 11 | 16 | 698 | -43 | 6 | 1 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 676 | -62 | 3 | 67 | 669 | -69 | 2 | 95 | 666 | -72 | 1 | 108 |
| 03 | 675 | -63 | 3 | 70 | 668 | -70 | 1 | 109 | 666 | -70 |  | 101 |
| 06 | 673 | -63 | 4 | 57 | 668 | -71 | 1 | 125 | 667 | -72 | 1 | 108 |
| 09 | 673 | -66 | 2 | 123 | 668 | -73 | 0 | 0 | 668 | -71 | 1 | 120 |
| 12 | 672 | -67 | 0 | 0 | 667 | -72 | 1 | 111 | 669 | -72 | 1 | 137 |
| 15 | 671 | -67 | 2 | 87 | 667 | -71 | 2 | 111 | 670 | -72 | 1 | 133 |
| 18 | 670 | -68 | 2 | 130 |  |  |  |  | 671 | -73 | 1 | 80 |
| 21 | 670 | -69 | 2 | 104 | 666 | -71 | 2 | 97 | 672 | -72 | 0 | 0 |
|  |  | DAY | 29 |  |  |  | 30 |  |  |  |  |  |
| 00 |  | -52 | 8 | 19 |  | -54 | 7 | 360 |  |  |  |  |
| 03 |  | -51 | 8 | 12 |  | -53 | 6 | 1 |  |  |  |  |
| 06 |  | -50 | 7 | 9 |  | -54 |  | 360 |  |  |  |  |
| 09 |  | -53 | 6 | 8 |  | -56 | 6 | 2 |  |  |  |  |
| 12 |  | -56 | 5 | 8 | 678 | -56 | 7 | 9 |  |  |  |  |
| 15 |  | -56 | 6 | 7 |  | -56 | 6 | 4 |  |  |  |  |
| 18 |  | -56 | 7 | 5 |  | -56 |  | 9 |  |  |  |  |
| 21 | 677 | -56 | 9 | 18 |  | -56 |  | 11 |  |  |  |  |


| PP |  |  | DD | PP | Tt | VV | DD | PP | TT | VV | DD | PP |  | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | day | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 685 | -67 | 4 | 94 | 692 | -60 | 4 | 33 | 692 | -43 | 7 | 327 | 687 | -39 | 6 | 322 |
| 685 | -67 | 3 | 94 | 692 | -59 | 5 | 12 | 692 | -42 | 7 | 326 | 686 | -40 | 8 | 336 |
| 686 | -68 | 3 | 101 | 692 | -57 | 8 | 360 | 691 | -42 | 5 | 331 | 685 | -40 | 6 | 329 |
| 687 | -68 | 2 | 101 | 693 | -53 | 7 | 360 | 690 | -41 | 6 | 338 | 684 | -41 | 4 | 334 |
| 688 | -68 | 0 | 0 | 693 | -52 | 6 | 360 | 688 | -39 | 6 | 345 | 683 | -40 | 8 | 341 |
| 689 | -67 | 3 | 77 | 693 | -49 | 6 | 347 | 688 | -39 | 7 | 315 | 682 | -42 | 7 | 337 |
| 690 | -67 | 2 | 67 | 693 | -46 | 9 | 344 | 688 | -39 | 5 | 312 | 682 | -41 | 6 | 322 |
| 691 | -65 | 2 | 49 | 693 | -44 | 8 | 337 | 687 | -39 | 5 | 322 | 682 | -40 | 4 | 322 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
|  | -57 | 8 | 9 | 670 | -54 | 10 | 28 | 673 | -62 | 6 | 28 | 673 | -58 | 8 | 26 |
|  | -57 | 7 | 23 | 669 | -55 | 7 | 37 | 673 | -61 | 8 | 26 | 673 | -58 | 6 | 30 |
|  | -55 | 9 | 26 | 670 | -58 | 7 | 32 | 673 | -61 | 7 | 28 | 673 | -57 | 5 | 40 |
|  | -55 | 8 | 26 | 669 | -58 | 6 | 39 | 674 | -60 | 8 | 19 | 673 | -57 | 5 | 25 |
|  | -53 | 8 | 21 | 670 | -58 | 7 | 16 | 674 | -59 | 8 | 15 | 673 | -57 | 6 | 22 |
| 669 | -54 | 9 | 14 | 671 | -58 | 6 | 14 | 675 | -59 | 6 | 45 | 674 | -57 | 5 | 21 |
| 670 | -54 | 10 | 29 | 671 | -61 | 6 | 12 |  | -59 | 5 | 43 | 675 | -58 | 4 | 32 |
| 670 | -53 | 9 | 36 | 672 | -62 | 5 | 32 | 674 | -59 | 7 | 32 | 676 | -59 | 7 | 15 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
|  | -43 | 8 | 360 | 699 | -52 | 3 | 66 | 693 | -55 | 4 | 87 | 684 | -56 | 6 | 43 |
|  | -45 | 7 | 7 | 698 | -55 | 2 | 75 | 692 | -55 | 4 | 91 | 683 | -56 | 4 | 43 |
|  | -47 | 6 | 11 | 698 | -56 | 2 | 80 | 690 | -56 | 3 | 92 | 682 | -58 | 5 | 53 |
|  | -48 | 6 | 5 | 697 | -56 | 3 | 88 | 689 | -58 | 3 | 101 | 681 | -58 | 5 | 40 |
| 702 | -47 | 5 | 11 | 696 | -55 | 6 | 63 | 687 | -58 | 4 | 97 | 680 | -59 | 3 | 70 |
| 702 | -49 | 4 | 30 | 696 | -55 | 4 | 82 | 686 | -58 | 4 | 78 | 679 | -54 | 4 | 59 |
| 701 | -52 | 2 | 63 | 695 | -58 | 3 | 92 | 685 | -58 | 3 | 60 | 677 | -55 | 3 | 53 |
| 700 | -50 | 3 | 61 | 694 | -56 | 3 | 102 | 684 | -59 | 3 | 77 | 676 | -59 | 2 | 68 |
|  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 673 | -73 | 1 | 129 | 672 | -71 | 1 | 81 | 673 | -69 | 1 | 75 | 675 | -65 | 3 | 75 |
| 673 | -72 | 1 | 105 | 672 | -68 | 3 | 57 | 673 | -68 | 2 | 68 | 674 | -59 | 6 | 47 |
| 673 | -71 | 1 | 102 | 673 | -64 | 3 | 49 | 673 | -67 | 1 | 87 | 674 | -61 | 3 | 90 |
| 673 | -72 | 1 | 101 | 673 | -62 | 3 | 46 | 674 | -65 | 3 | 59 | 673 | -57 | 3 | 66 |
| 673 | -71 | 2 | 104 | 673 | -64 | 1 | 70 | 674 | -66 | 3 | 64 | 672 | -56 | 3 | 66 |
| 673 | -71 | 1 | 78 | 672 | -67 | 2 | 66 | 675 | -68 | 3 | 77 | 671 | -52 | 8 | 33 |
| 672 | -71 | 2 | 70 | 672 | -68 | 2 | 80 | 675 | -67 | 3 | 71 |  | -50 | 11 | 18 |
| 672 | -71 | 2 | 77 | 673 | -69 | 2 | 82 | 675 | -66 | 3 | 64 |  | -51 | 10 | 15 |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-57.0$ STD DEV $=8.9$ MAX $=-38.2$ AT 40 GMT ON DAY 7 MIN $=-72.8$ AT 1800 GMT ON DAY 24
* THETA (K) * MEAN $=240.50$
* PRESSURE (MB) * MEAN $=679.0$ STD DEV $=8.9$ MAX $=702.2$ AT 1320 GMT ON DAY 18 MIN $=666.0$ AT 2120 GMT ON DAY 23
* WINDS (M/S) * MEAN $=4.8 \mathrm{STD}$ DEV $=2.5$ RESULTANT $=4.0$ FROM 23. CONSTANCY $=0.84$ MAX $=13.5$ FROM 32 . AT 1930 GMT DAY 28 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $15.4 \%$ WINDS: $1.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 10-12 $12-1414-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllllllllllll}\text { PERCENT } & 23 & 23 & 10 & 15 & 11 & 7 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 6\end{array}$

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD |  |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 |  | -55 | 6 | 14 |  | -50 | 4 | 358 | 674 | -62 | 6 | 39 | 675 | -63 | 6 | 18 | 675 | -58 | 8 | 4 | 673 | -52 | 8 | 9 |  | -54 | 6 | 9 |
| 03 |  | -54 | 8 | 360 |  | -51 | 3 | 4 | 675 | -63 | 5 | 29 | 675 | -63 | 5 | 32 | 674 | -56 | 5 | 23 | 672 | -52 | 9 | 14 |  | -54 | 8 | 9 |
| 06 |  | -52 | 9 | 360 | 671 | -55 | 4 | 14 | 675 | -63 | 5 | 37 | 675 | -63 | 4 | 33 | 674 | -56 | 7 | 11 | 672 | -52 | 8 | 22 | 674 | -56 | 5 | 15 |
| 09 |  | -50 | 6 | 360 | 671 | -58 | 5 | 15 | 675 | -62 | 7 | 30 | 676 | -62 | 6 | 23 | 674 | -56 | 6 | 360 | 672 | -53 | 7 | 5 | 675 | -58 | 4 | 39 |
| 12 |  | -49 | 5 | 360 | 672 | -60 | 4 | 35 | 675 | -62 | 7 | 25 | 675 | -61 | 7 | 18 | 673 | -55 | 6 | 4 | 671 | -53 | 9 | 7 | 676 | -59 | 5 | 23 |
| 15 |  | -49 | 6 | 358 | 672 | -61 | 4 | 36 | 675 | -63 | 6 | 40 | 675 | -61 | 7 | 16 | 673 | -53 | 7 | 12 | - 671 | -52 | 9 | 11 | 677 | -59 | 7 | 32 |
| 18 | 674 | -49 | 4 | 347 | 673 | -62 | 4 | 33 | 675 | -63 | 7 | 23 | 675 | -61 | 5 | 18 | 673 | -53 | 8 | 18 | 671 | -53 | 12 | 19 | 678 | -59 | 7 | 23 |
| 21 | 673 | -50 | 5 | 4 | 674 | -62 | 6 | 26 | 675 | -63 | 7 | 23 | 675 | -59 | 8 | 9 | 673 | -52 | 9 | 14 |  | -53 | 10 | 18 | 678 | -59 | 7 | 32 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 678 | -58 | 7 | 47 | 668 | -56 | 10 | 32 | 664 | -62 | 6 | 46 | 665 | -64 | 6 | 47 | 661 | -59 | 4 | 77 | 669 | -73 | 0 | 0 | 678 | -54 | 10 | 360 |
| 03 | 677 | -58 | 6 | 50 | 667 | -57 | 7 | 47 | 664 | -63 | 5 | 42 | 664 | -62 | 8 | 52 | 661 | -60 | 4 | 81 | 671 | -72 | 0 | 0 | 678 | -52 | 9 | 360 |
| 06 | 676 | -59 | 7 | 45 | 666 | -58 | 7 | 57 | 664 | -65 | 5 | 35 | 663 | -60 | 8 | 46 | 661 | -64 | 2 | 88 | 673 | -71 | 2 | 35 | 678 | -51 | 10 | 360 |
| 09 | 675 | -59 | 7 | 40 | 665 | -58 | 8 | 47 | 665 | -67 | 3 | 45 | 663 | -57 | 11 | 33 | 661 | -67 | 3 | 112 | 675 | -69 | 5 | 21 | 679 | -50 | 8 | 360 |
| 12 | 673 | -59 | 7 | 59 | 664 | -58 | 8 | 36 | 666 | -69 | 2 | 64 | 662 | -53 | 8 | 29 |  |  |  |  | 676 | -65 | 6 | 15 | 678 | -48 | 15 | 360 |
| 15 | 672 | -57 | 7 | 47 | 664 | -59 | 7 | 43 | 666 | -70 | 2 | 70 | 662 | -52 | 8 | 52 |  |  |  |  | 677 | -61 | 6 | 357 | 678 | -47 | 11 | 4 |
| 18 | 671 | -57 | 6 | 42 | 663 | -60 | 7 | 47 | 666 | -67 | 6 | 50 | 661 | -54 | 4 | 60 | 665 | -71 | 1 | 108 | 677 | -57 | 8 | 2 | 678 | -47 | 9 | 15 |
| 21 | 669 | -56 | 7 | 56 | 663 | -60 | 2 | 40 | 665 | -67 | 6 | 53 | 661 | -55 | 5 | 54 | 666 | -73 | 1 | 91 | 677 | -56 | 8 | 7 | 678 | -46 | 10 | 1 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 678 | -46 | 10 | 358 | 684 | -60 | 3 | 47 | 684 | -57 | 0 | 0 | 684 | -61 | 3 | 73 | 680 | -62 | 3 | 66 |  | -54 | 10 | 19 | 675 | -61 | 4 | 70 |
| 03 | 679 | -48 | 7 | 360 | 685 | -61 | 0 | 0 | 684 | -60 | 2 | 106 | 683 | -62 | 3 | 95 | 679 | -64 | 2 | 68 |  | -55 | 8 | 19 | 674 | -60 | 4 | 70 |
| 06 | 679 | -49 | 5 | 360 | 684 | -60 | 4 | 39 | 684 | -59 | 4 | 39 | 682 | -62 | 3 | 97 | 679 | -59 | 5 | 46 |  | -56 | 8 | 30 | 672 | -59 | 6 | 66 |
| 09 | 681 | -51 | 4 | 360 | 685 | -57 | 5 | 33 | 685 | -59 | 2 | 135 | 682 | -61 | 3 | 71 | 679 | -60 | 3 | 60 |  | -55 | 8 | 26 | 671 | -59 | 7. | 63 |
| 12 | 681 | -52 | 6 | 360 | 684 | -56 | 2 | 47 | 685 | -59 | 2 | 109 | 681 | -62 | 2 | 144 | 679 | -57 | 5 | 37 |  | -56 | 7 | 49 | 669 | -59 | 5 | 57 |
| 15 | 682 | -55 | 6 | 5 | 684 | -54 | 3 | 49 | 684 | -59 | 1 | 129 | 681 | -60 | 4 | 57 | 678 | -53 | 7 | 30 |  | -56 | 8 | 57 | 668 | -59 | 6 | 56 |
| 18 | 683 | -57 | 6 | 18 | 684 | -58 | 0 | 0 | 684 | -59 | 1 | 92 | 680 | -56 | 2 | 68 | 677 | -54 | 10 | 18 | 678 | -57 | 6 | 42 | 668 | -61 | 3 | 74 |
| 21 | 684 | -59 | 3 | 40 | 684 | -60 | 2 | 63 | 684 | -61 | 0 | 0 | 680 | -61 | 2 | 67 |  | -53 | 9 | 16 | 677 | -60 | 5 | 64 | 667 | -63 | 5 | 63 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 667 | -63 | 4 | 60 | 672 | -57 | 7 | 8 | 675 | -59 | 6 | 14 | 670 | -66 | 2 | 130 | 676 | -67 | 3 | 61 | 683 | -61 | 3 | 59 | 681 | -62 | 1 | 133 |
| 03 | 667. | -59 | 5 | 36 | 672 | -57 | 6 | 7 |  | -60 | 4 | 49 | 670 | -67 | 3 | 97 | 677 | -67 | 2 | 74 | 683 | -61 | 2 | 87 | 680 | -64 | 2 | 109 |
| 06 | 667 | -58 | 8 | 36 | 673 | -56 | 8 | 12 | 675 | -61 | 4 | 61 | 670 | -67 | 2 | 149 | 678 | -63 | 5 | 36 | 684 | -61 | 2 | 88 | 679 | -65 | 1 | 113 |
| 09 | 667 | -55 | 8 | 25 |  | -58 | 8 | 4 | 674 | -62 | 2 | 104 | 671 | -67 | 3 | 123 | 679 | -62 | 5 | 30 | 683 | -63 | 1 | 101 | 677 | -63 | 1 | 95 |
| 12 | 668 | -56 | 7 | 26 |  | -58 | 8 | 9 | 673 | -62 | 3 | 73 | 671 | -67 | 2 | 120 | 680 | -60 | 5 | 26 | 683 | -63 | 2 | 88 | 676 | -57 | 2 | 87 |
| 15 | 669 | -58 | 6 | 19 |  | -58 | 8 | 18 | 672 | -63 | 2 | 120 | 672 | -67 | 2 | 91 | 681 | -60 | 6 | 42 | 683 | -65 | 2 | 140 | 675 | -53 | 1 | 67 |
| 18 |  | -58 | 8 | 9 |  | -58 | 6 | 9 | 672 | -65 | 2 | 122 | 674 | -68 | 2 | 92 |  | -59 | 4 | 22 | 683 | -66 | 2 | 98 | 674 | -52 | 2 | 70 |
| 21 | 671 | -57 | 6 | 358 |  | -58 | 7 | 21 | 671 | -65 | 3 | 99 | 675 | -68 | 2 | 60 |  | -60 | 5 | 37 | 682 | -65 | 2 | 112 | 673 | -52 | 0 | 0 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 671 | -59 | 1 | 74 | 664 | -54 | 0 | 0 | 663 | -60 | 2 | 144 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 670 | -56 | 0 | 0 | 665 | -54 | 0 | 0 | 663 | -61 | 2 | 137 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 669 | -54 | 0 | 0 | 664 | -57 | 0 | 0 | 662 | -62 | 3 | 112 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 667 | -53 | 1 | 45 | 665 | -55 | 2 | 60 | 662 | -64 | 3 | 126 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 666 | -53 | 0 | 0 | 665 | -53 | 2 | 116 | 662 | -64 | 4 | 108 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 666 | -52 | 0 | 0 | 664 | -57 | 2 | 90 | 662 | -64 | 6 | 111 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 665 | -50 | 2 | 341 | 664 | -59 | 2 | 101 | 662 | -65 | 6 | 132 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 664 | -54 | 4 | 4 | 663 | -59 | 3 | 116 | 662 | -64 |  | 115 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE ( $C$ ) * MEAN $=-58.7$ STD DEV $=5.2$ MAX $=-46.0$ AT 2120 GMT ON DAY 14 MIN $=-73.5$ AT 140 GMT ON DAY 13
* THETA (K) * MEAN $=239.63$
* PRESSURE (MB) * MEAN $=673.3$ STD DEV $=6.8$ MAX $=685.0$ AT 850 GMT ON DAY 16 MIN $=660.4$ AT 2140 GMT ON DAY 11
* WINDS (M/S) * MEAN $=4.8$ STD DEV $=2.8$ RESULTANT $=4.1$ FROM 32. CONSTANCY $=0.86$ MAX $=14.5$ FROM 360 . AT 1200 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $11.7 \%$ WINDS: $0.8 \%$

WIND SPEED (M/S): 0-2 $2-44-6$ 6-8 $8-1010-1212-1414-1616-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 662 & -63 & 6 & 95\end{array}$
$\begin{array}{lllll}3 & 663 & -65 & 6 & 106\end{array}$
$\begin{array}{lllll}6 & 663 & -65 & 6 & 120\end{array}$
$9 \quad 664-65 \quad 3 \quad 106$
$\begin{array}{lllll}2 & 664 & -65 & 3 & 108\end{array}$
$\begin{array}{lllll}5 & 665 & -64 & 3 & 101\end{array}$
$\begin{array}{lllll}8 & 666 & -63 & 5 & 90\end{array}$
$\begin{array}{lllll}21 & 667 & -61 & 6 & 82\end{array}$ DAY 8
$\begin{array}{lllll}00 & 676 & -53 & 1 & 108\end{array}$
$\begin{array}{lllll}03 & 675 & -52 & 2 & 125\end{array}$
$\begin{array}{lllll}06 & 674 & -55 & 4 & 144\end{array}$
$\begin{array}{lllll}09 & 674 & -58 & 4 & 127\end{array}$
$\begin{array}{lllll}12 & 674 & -58 & 3 & 150\end{array}$
$\begin{array}{lllll}15 & 673 & -57 & 2 & 142\end{array}$
$\begin{array}{lllll}8 & 673 & -58 & 2 & 113\end{array}$
$\begin{array}{lllll}11 & 672 & -58 & 1 & 118\end{array}$ DAY 15
$\begin{array}{lllll}00 & 669 & -64 & 3 & 78\end{array}$
$\begin{array}{lllll}03 & 669 & -63 & 0 & 0\end{array}$
$\begin{array}{lllll}6 & 669 & -64 & 0 & 0\end{array}$
$\begin{array}{lllll}9 & 669 & -66 & 1 & 91\end{array}$
$\begin{array}{lllll}2 & 669 & -61 & 2 & 120\end{array}$
$\begin{array}{llll}5 & 669 & -64 & 2\end{array} 119$
$\begin{array}{lllll}8 & 668 & -67 & 1 & 161\end{array}$
$\begin{array}{lllll}21 & 668 & -64 & 4 & 119\end{array}$ DAY 22
$00 \quad-51 \quad 4 \quad 40$
$\begin{array}{lllll}03 & 707 & -49 & 7 & 23\end{array}$
$\begin{array}{lllll}06 & 706 & -47 & 3 & 60\end{array}$
$\begin{array}{lllll}09 & 705 & -44 & 3 & 46\end{array}$
$\begin{array}{lllll}12 & 703 & -43 & 4 & 80\end{array}$
$\begin{array}{lllll}15 & 700 & -47 & 5 & 98\end{array}$
$\begin{array}{lllll}18 & 695 & -49 & 4 & 90\end{array}$
$\begin{array}{lllll}21 & 692 & -48 & 7 & 63\end{array}$

$$
\text { DAY } 29
$$

$\begin{array}{llll}00 & -60 & 5 & 32\end{array}$
$03 \quad-60 \quad 4 \quad 5$
$\begin{array}{llll}06 & -61 & 7 & 18\end{array}$
$09 \quad-62 \quad 4 \quad 37$
$\begin{array}{lll}-62 & 5 & 42\end{array}$
$\begin{array}{llll}677 & -63 & 4 & 37\end{array}$
$\begin{array}{llll}677 & -66 & 3 & 59\end{array}$
$\begin{array}{lllll}21 & 676 & -67 & 3 & 67\end{array}$
$\begin{array}{llll}672 & -73 & 2 & 92\end{array}$
$\begin{array}{llll}672 & -73 & 2 & 85\end{array}$
 DAY 30
$\begin{array}{llll}676 & -68 & 2 & 70\end{array}$
675-70 0
674-72 0
$\begin{array}{llll}674 & -73 & 2 & 94\end{array}$
673-72 290

672-72 $2 \quad 82$

| PP |  | WV | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 681 | -70 | 2 | 82 | 677 | -72 | 3 | 81 | 682 | -60 | 2 | 16 | 684 | -64 | 0 | 0 |
| 681 | -70 | 2 | 88 | 676 | -72 | 3 | 82 | 683 | -58 | 4 | 360 | 682 | -61 | 1 | 45 |
| 680 | -71 | 2 | 87 | 676 | -72 | 3 | 73 | 684 | -57 | 3 | 5 | 681 | -54 | 1 | 29 |
| 680 | -71 | 3 | 80 | 677 | -71 | 4 | 61 | 685 | -56 | 3 | 18 | 679 | -51 | 3 | 360 |
| 680 | -71 | 2 | 109 | 677 | -68 | 3 | 54 | 685 | -57 | 4 | 11 | 677 | -50 | 3 | 2 |
| 679 | -72 | 3 | 77 | 678 | -62 | 4 | 35 | 685 | -58 | 2 | 21 | 676 | -49 | 2 | 8 |
| 678 | -72 | 2 | 90 | 679 | -61 | 4 | 26 | 685 | -59 | 2 | 45 | 676 | -50 | 1 | 75 |
| 678 | -72 | 3 | 85 | 680 | -61 | 4 | 5 | 684 | -62 | 1 | 71 | 676 | -50 | 2 | 85 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 675 | -64 |  | 167 | 677 | -64 | 1 | 106 | 676 | -66 | 6 | 112 | 670 | -58 | 3 | 144 |
| 676 | -64 | 4 | 80 | 677 | -59 | 2 | 106 | 675 | -66 | 3 | 123 | 669 | -59 | 3 | 113 |
| 677 | -63 | 6 | 98 | 676 | -56 | 1 | 127 | 673 | -66 | 6 | 111 | 667 | -63 | 2 | 156 |
| 677 | -65 | 3 | 143 | 676 | -54 | 1 | 87 | 672 | -66 | 6 | 99 | 667 | -64 | 0 | 0 |
| 678 | -66 | 2 | 106 | 676 | -58 | 2 | 106 | 672 | -65 | 5 | 118 | 667 | -67 | 0 | 0 |
| 678 | -67 | 2 | 127 | 676 | -60 |  | 105 | 671 | -62 | 4 | 102 | 667 | -66 | 0 | 0 |
| 677 | -67 | 1 | 125 | 676 | -64 | 5 | 106 | 670 | -61 | 5 | 111 | 668 | -64 | 0 | 0 |
| 677 | -65 | 0 | 0 | 676 | -66 |  | 123 | 670 | -60 | 4 | 137 | 668 | -67 | 2 | 64 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 68 | -60 | 4 | 71 | 692 | -40 | 6 | 66 | 701 | -38 | 8 | 4 |  |  |  |  |
| 680 | -59 | 5 | 82 | 693 | -43 |  | 119 | 701 | -42 | 10 | 8 | 696 | -52 | 1 | 29 |
| 681 | -55 | 4 | 68 | 694 | -46 | 6 | 37 | 703 | -42 | 6 | 26 | 698 | -52 | 3 | 360 |
| 683 | -45 | 9 | 36 | 695 | -43 | 5 | 64 | 703 | -41 | 6 | 36 | 699 | -54 | 2 | 64 |
| 686 | -43 | 6 | 23 | 695 | -36 | 6 | 26 | 704 | -41 | 7 | 29 | 701 | -51 | 5 | 11 |
| 689 | -44 | 9 | 19 | 697 | -36 | 9 | 21 | 703 | -45 | 4 | 56 | 703 | -52 | 7 | 2 |
| 691 | -45 | 7 | 25 | 698 | -38 | 10 | 15 | 701 | -46 | 3 | 66 |  | -52 | 8 | 16 |
| 691 | -43 | 7 | 47 | 699 | -35 |  | . 360 | 699 | -42 | 3 | 105 |  | -51 | 6 | 16 |
|  | DAY | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 682 | -37 | 7 | 5 | 681 | -48 | 6 | 16 | 680 | -59 | 3 | 63 |  | -61 | 2 | 77 |
| 682 | -37 |  | 360 | 681 | -49 | 6 | 15 | 680 | -56 | 4 | 49 | 676 | -62 | 2 | 75 |
| 683 | -43 | 5 | 9 | 681 | -50 | 5 | 16 | 680 | -61 | 3 | 78 | 676 | -63 | 2 | 90 |
| 683 | -46 | 5 | 21 | 681 | -51 | 5 | 9 | 679 | -62 | 2 | 85 | 676 | -63 | 3 | 78 |
| 683 | -45 | 6 | 28 | 682 | -53 | 3 | 26 | 678 | -61 | 2 | 77 | 676 | -64 | 3 | 88 |
| 682 | -46 | 6 | 30 | 682 | -51 | 5 | 25 |  | -59 | 3 | 70 | 676 | -63 | 2 | 94 |
| 681 | -45 | 8 | 23 | 681 | -52 | 5 | 33 |  | -58 | 3 | 66 |  | -65 | 2 | 80 |
| 681 | -47 | 6 | 16 | 680 | -55 | 3 | 40 |  | -59 | 4 | 68 | 676 | -64 | 3 | 43 |

* temperature ( $C$ ) * mean $=-58.3$ Std dev $=9.1$ max $=-32.9$ at 1340 GMt ON day 19 min $=-73.8$ at 1910 GMt ON dAY 30
* theta (K) * mean $=240.02$
* PRESSURE (MB) * MEAN $=679.3$ STD DEV $=9.5$ MAX $=707.0$ at 340 GMT ON DAY 22 MIN $=662.3$ AT O GMT ON DAY 1
* WINDS (M/S) * MEAN $=3.7$ STD DEV $=2.1$ RESULTANT $=2.9$ FROM 54. CONSTANCY $=0.79$ MAX $=14.2$ FROM 19. AT 1910 GMT DAY 19 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.2 \%$ PRESSURE: $7.1 \%$ WINDS: $1.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 10-12 $12-14$ 14-16 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W UNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
8 & 20 & 10 & 23 & 17 & 14 & 5 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0
\end{array}
$$

JUL 97
HR PP TT VV DD

|  |  | DAY | 1 |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 671 | -70 | 2 | 68 |
| 03 | 671 | -68 | 3 | 47 |
| 06 | 671 | -69 | 4 | 39 |
| 09 | 671 | -69 | 6 | 23 |
| 12 | 671 | -70 | 5 | 25 |
| 15 | 671 | -70 | 6 | 19 |
| 18 |  |  |  |  |
| 21 | 672 | -70 | 3 | 40 |
|  |  | DAY | 8 |  |
| 00 | 679 | -54 | 5 | 355 |
| 03 | 678 | -50 | 4 | 323 |
| 06 | 676 | -51 | 4 | 324 |
| 09 | 676 | -50 | 2 | 303 |
| 12 | 675 | -47 | 3 | 347 |
| 15 | 675 | -42 | 2 | 309 |
| 18 | 673 | -41 | 2 | 246 |
| 21 | 671 | -35 | 5 | 223 |
|  |  | DAY | 15 |  |
| 00 | 671 | -66 | 7 | 18 |
| 03 | 671 | -64 | 7 | 23 |
| 06 |  | -63 | 8 | 14 |
| 09 |  | -61 | 8 | 11 |
| 12 |  | -61 | 7 | 16 |
| 15 |  | -60 | 9 | 360 |
| 18 |  | -60 | 7 | 5 |
| 21 |  | -61 | 5 | 8 |

$\begin{array}{lllll}00 & 665 & -74 & 3 & 105\end{array}$
03 665.-74 3112
$\begin{array}{lllll}06 & 664 & -74 & 2 & 108\end{array}$
$\begin{array}{lllll}09 & 664 & -74 & 2 & 102\end{array}$
$\begin{array}{lllll}12 & 664 & -76 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 664 & -74 & 2 & 97\end{array}$
$\begin{array}{lllll}18 & 664 & -75 & 2 & 102\end{array}$
$\begin{array}{lllll}21 & 664 & -74 & 2 & 81\end{array}$ DAY 29
$\begin{array}{lllll}00 & 656 & -76 & 3 & 98\end{array}$
$\begin{array}{lllll}03 & 656 & -77 & 2 & 105\end{array}$
$\begin{array}{lllll}06 & 656 & -77 & 2 & 113\end{array}$
$\begin{array}{lllll}09 & 656 & -78 & 2 & 77\end{array}$
$\begin{array}{lllll}12 & 657 & -76 & 4 & 42\end{array}$
$\begin{array}{lllll}15 & 657 & -71 & 3 & 45\end{array}$
$\begin{array}{lllll}18 & 658 & -70 & 4 & 54\end{array}$
$\begin{array}{lllll}21 & 658 & -69 & 5 & 47\end{array}$

| PP | IT | v | DD | PP |  |  | DD | PP | TT | vV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | day | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |
| 673 | -74 | 2 | 67 | 680 | -64 | 0 | 0 | 679 | -53 | 6 | 360 |
| 673 | -74 | 1 | 84 | 680 | -65 | 1 | 91 | 679 | -53 | 4 | 1 |
| 675 | -71 | 2 | 73 | 680 | -65 | 2 | 64 | 680 | -54 | 5 | 19 |
| 676 | -67 | 0 | 0 | 680 | -65 | 3 | 60 | 680 | -54 | 7 | 360 |
| 677 | -66 | 1 | 66 | 680 | -67 | 3 | 63 | 680 | -54 | 5 | 14 |
| 678 | -65 | 1 | 80 | 679 | -62 | 3 | 19 | 681 | -55 | 3 | 36 |
| 679 | -65 | 1 | 82 | 679 | -58 | 4 | 14 | 681 | -54 | 2 | 54 |
| 680 | -63 | 1 | 105 | 679 | -56 | 6 | 360 | 681 | -55 | 3 | 32 |
|  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |
| 669 | -36 | 5 | 209 | 660 | -54 | 4 | 146 | 651 | -74 | 1 | 341 |
| 667 | -39 | 4 | 206 | 657 | -53 | 8 | 171 | 652 | -72 |  |  |
| 666 | -37 | 8 | 149 | 655 | -53 | 6 | 168 | 653 | -70 | 5 | 360 |
| 665 | -42 | 6 | 175 | 653 | -54 | 7 | 154 | 655 | -65 | 8 | 350 |
| 664 | -44 | 5 | 158 | 652 | -57 | 5 | 175 | 656 | -58 | 7 | 337 |
| 662 | -46 | 6 | 122 | 651 | -64 | 3 | 91 | 658 | -55 | 5 | 330 |
| 662 | -46 | 7 | 112 | 650 | -71 | 3 | 99 | 661 | -53 | 5 | 320 |
| 661 | -51 | 5 | 126 | 651 | -72 | 1 | 87 | 663 | -54 | 3 | 334 |
|  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |
|  | -61 | 6 | 28 | 680 | -67 | 3 | 88 | 670 | -71 | 2 | 115 |
| 677 | -62 | 4 | 37 | 679 | -67 | 2 | 85 | 669 | -71 | 3 | 82 |
|  | -63 | 4 | 29 | 678 | -69 | 3 | 108 | 670 | -72 | 3 | 87 |
|  | -62 | 6 | 30 | 677 | -68 | 3 | 101 | 669 | -72 | 2 | 70 |
|  | -61 | 4 | 47 | 676 | -69 | 3 | 109 | 670 | -72 | 3 | 82 |
|  | -62 | 3 | 43 | 674 | -69 | 3 | 91 | 670 | -73 | 2 | 68 |
| 680 | -66 | 3 | 64 | 672 | -70 | 3 | 109 | 670 | -72 | 2 | 82 |
| 680 | -67 | 3 | 66 | 671 | -71 | 4 | 78 | 671 | -72 | 3 | 78 |
|  | DAY | 23 |  |  | day | 24 |  |  | DAY | 25 |  |
| 664 | -75 | 2 | 78 | 670 | -71 | 4 | 52 | 671 | -70 | 5 | 101 |
| 664 | -75 | 3 | 71 | 671 | -72 | 2 | 63 | 670 | -68 | 4 | 97 |
| 664 | -74 | 3 | 64 | 672 | -71 | 0 | 0 | 668 | -67 | 4 | 106 |
| 665 | -75 | 4 | 57 | 672 | -73 | 1 | 90 | 668 | -69 | 4 | 95 |
|  |  |  |  | 672 | -72 | 6 | 53 | 667 | -71 | 4 | 91 |
| 667 | -72 | 3 | 49 | 673 | -73 |  | 109 | 666 | -72 | 4 | 85 |
| 668 | -72 | 4 | 39 | 672 | -71 | 3 | 90 | 665 | -72 | 4 | 90 |
| 669 | -72 | 3 |  | 671 | -71 |  | 115 | 665 | -71 | 3 | 81 | DAY 31


| PP | TT | VV | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 681 | -60 | 2 | 102 | 675 | -61 | 5 | 21 | 679 | -66 | 4 | 37 |
| 680 | -61 | 3 | 91 | 675 | -60 | 5 | 25 | 679 | -64 | 4 | 22 |
| 680 | -62 | 1 | 99 | 676 | -61 | 3 | 36 | 679 | -64 | 3 | 35 |
| 679 | -65 | 1 | 127 | 677 | -60 | 3 | 30 | 680 | -64 | 2 | 40 |
| 678 | -65 | 2 | 119 | 677 | -63 | 2 | 74 | 680 | -62 | 2 | 26 |
| 677 | -67 | 3 | 80 | 678 | -66 | 3 | 39 | 681 | -61 |  | 360 |
| 676 | -68 | 2 | 63 | 678 | -67 | 2 | 75 | 681 | -59 | 2 | 7 |
| 675 | -67 | 2 | 64 | 678 | -67 | 4 | 46 | 680 | -57 |  | 355 |
|  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 665 | -60 | 3 | 360 | 677 | -70 | 2 | 71 | 674 | -67 | 3 | 61 |
| 668 | -59 | 3 | 7 | 678 | -71 | 1 | 60 | 672 | -66 | 2 | 77 |
| 669 | -60 | 3 | 14 | 677 | -73 | 0 | 0 | 671 | -66 | 2 | 66 |
| 671 | -67 | 1 | 70 | 678 | -73 | 1 | 113 | 670 | -65 | 2 | 71 |
| 673 | -70 | 1 | 90 | 677 | -74 | 0 | 0 | 669 | -64 | 4 | 45 |
| 674 | -70 | 1 | 45 | 676 | -74 | 0 | 0 | 669 | -64 | 3 | 54 |
| 675 | -69 | 2 | 60 | 675 | -72 | 2 | 87 | 669 | -65 | 5 | 21 |
| 677 | -70 | 2 | 74 | 674 | -71 | 2 | 88 | 670 | -66 | 6 | 26 |
|  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 671 | -71 | 3 | 71 | 671 | -72 | 0 | 0 | 668 | -73 | 1 | 101 |
| 672 | -71 | 4 | 66 | 671 | -72 | 2 | 99 | 668 | -73 | 3 | 95 |
| 672 | -70 | 3 | 73 | 671 | -72 | 2 | 105 | 667 | -74 | 2 | 109 |
| 672 | -71 | 2 | 81 | 670 | -72 | 2 | 106 | 667 | -73 | 3 | 105 |
| 672 | -71 | 2 | 77 | 670 | -72 | 4 | 101 | 667 | -74 | 2 | 102 |
| 672 | -71 | 3 | 80 | 669 | -72 | 3 | 109 | 667 | -75 | 2 | 126 |
| 672 | -71 | 3 | 75 | 669 | -73 | 3 | 104 | 666 | -74 | 3 | 115 |
| 672 | -71 | 2 | 95 | 668 | -72 | 2 | 105 | 666 | -74 | 3 | 108 |
|  | DAY | 26 |  |  |  | 27 |  |  | DAY | 28 |  |
| 665 | -72 | 3 | 71 | 664 | -73 | 3 | 105 | 662 | -73 | 2 | 73 |
| 665 | -73 | 2 | 67 | 664 | -74 | 2 | 119 | 661 | -76 | 1 | 91 |
| 665 | -72 | 2 | 75 | 663 | -74 | 2 | 95 | 661 | -77 | 2 | 99 |
| 665 | -70 | 3 | 75 | 663 | -75 | 2 | 102 | 660 | -77 |  | 132 |
| 665 | -70 | 2 | 92 | 663 | -76 | 2 | 82 | 659 | -77 | 2 | 95 |
| 665 | -70 | 1 | 71 | 663 | -75 | 1 | 88 | 658 | -76 |  | 127 |
| 664 | -73 | 2 | 104 | 662 | -76 | 0 | 0 | 656 | -74 | 3 | 399 |
| 664 | -72 | 0 | 0 | 663 | -74 | 2 | 64 | 656 | -74 |  | 3108 |

* temperature ( $C$ ) * mean $=-66.3$ Std dev $=8.3$ MAX $=-35.0$ at 2040 GMT ON DAY 8 MIN $=-77.9$ AT 350 GMT ON DAY 29
* theta (K) * MEAN $=231.72$
* PRESSURE (MB) * MEAN $=669.4$ StD dEV $=7.9$ maX $=681.4$ AT 1830 GMT ON DAY 4 MIN $=650.0$ at 1810 GMT ON DAY 10
* WINDS (M/S) * MEAN $=3.2$ StD DEV $=1.9$ RESULTANT $=2.2$ from 55. CONSTANCY $=0.67 \mathrm{MAX}=10.2$ FROM 15 . AT 230 GMT DAY 15 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $10.1 \%$ WINDS: $1.2 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 14 -16 16 -18 18 -20 $\quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 6$ PERCENT:
$\begin{array}{lll}-65 & 8 & 11\end{array}$
$\begin{array}{lllllll}657 & -70 & 3 & 59 & -65 & 8 & 11 \\ 657 & -67 & 5 & 45 & -66 & 8 & 15\end{array}$
$\begin{array}{lllllll}656 & -65 & 5 & 46 & -67 & 7 & 18\end{array}$
$\begin{array}{lllllll}656 & -65 & 5 & 33 & -68 & 5 & 26\end{array}$
$\begin{array}{llllll}-64 & 7 & 37 & -67 & 6 & 25 \\ -64 & 6 & 39 & -66 & 6 & 32 \\ -63 & 7 & 28 & -67 & 6 & 33\end{array}$
$\begin{array}{llllll}-64 & 7 & 37 & -67 & 6 & 25 \\ -64 & 6 & 39 & -66 & 6 & 32 \\ -63 & 7 & 28 & -67 & 6 & 33\end{array}$
$\begin{array}{llllll}-64 & 7 & 37 & -67 & 6 & 25 \\ -64 & 6 & 39 & -66 & 6 & 32 \\ -63 & 7 & 28 & -67 & 6 & 33\end{array}$
$\begin{array}{lll}-63 & 7 & 28\end{array}$
$\begin{array}{ll}-66 & 6\end{array} 30$

664-72 0

AUG 97

| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 |  | -65 | 6 | 39 | 666 | -59 | 5 | 354 | 663 | -48 | 6 | 355 |
| 03 |  | -63 | 6 | 37 | 666 | -53 | 7 | 320 | 661 | -47 | 6 | 334 |
| 06 |  | -64 | 4 | 42 | 666 | -56 | 6 | 333 | 660 | -47 | 6 | 341 |
| 09 | 672 | -61 | 5 | 2 | 667 | -58 | 4 | 348 | 659 | -48 | 7 | 341 |
| 12 | 669 | -58 | 4 | 4 | 667 | -59 | 3 | 1 | 658 | -49 | 6 | 357 |
| 15 | 668 | -58 | 4 | 11 | 666 | -53 | 6 | 345 | 657 | -48 | 6 | 4 |
| 18 | 667 | -60 | 4 | 360 | 666 | -50 | 4 | 358 | 657 | -47 | 7 | 360 |
| 21 | 667 | -63 | 4 | 360 | 665 | -49 | 6 | 343 | 658 | -48 | 7 | 5 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 |  | -65 | 8 | 14 | 677 | -53 | 9 | 360 | 686 | -49 | 5 | 357 |
| 03 |  | -64 | 7 | 29 | 678 | -51 | 6 | 360 | 688 | -51 | 6 | 360 |
| 06 |  | -63 | 8 | 18 | 679 | -50 | 8 | 360 | 689 | -51 | 6 | 11 |
| 09 |  | -62 | 6 | 5 | 679 | -50 | 9 | 12 | 690 | -53 | 5 | 22 |
| 12 |  | -61 | 9 | 360 | 680 | -48 | 6 | 360 | 691 | -54 | 5 | 30 |
| 15 | 674 | -58 | 7 | 360 | 680 | -45 | 11 | 352 | 692 | -54 | 6 | 11 |
| 18 | 675 | -55 | 9 | 1 | 682 | -43 | 9 | 350 | 692 | -55 | 7 | 11 |
| 21 | 677 | -54 | 9 | 360 | 684 | -43 | 7 | 327 | 693 | -54 | 7 | 18 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 689 | -65 | 3 | 42 | 677 | -59 | 4 | 45 | 673 | -56 | 7 | 16 |
| 03 | 688 | -64 | 4 | 54 | 676 | -60 | 6 | 16 | 673 | -58 | 6 | 15 |
| 06 | 686 | -64 | 2 | 74 | 675 | -59 | 6 | 9 |  | -58 | 6 | 4 |
| 09 | 685 | -67 | 2 | 71 | 675 | -58 | 6 | 21 |  | -58 | 6 | 9 |
| 12 | 683 | -64 | 2 | 80 | 674 | -58 | 6 | 21 |  | -58 | 7 | 14 |
| 15 | 681 | -61 | 5 | 37 | 674 | -58 | 8 | 23 |  | -57 | 5 | 9 |
| 18 | 680 | -60 | 6 | 26 | 674 | -57 | 5 | 30 | 674 | -58 | 3 | 5 |
| 21 | 678 | -60 | 7 | 15 |  | -57 | 6 | 19 |  | -57 | 5 | 4 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 679 | -62 | 4 | 54 |  | -62 | 5 | 54 | 675 | -69 | 4 | 53 |
| 03 | 679 | -59 | 4 | 37 |  | -63 | 4 | 67 | 675 | -69 | 4 | 66 |
| 06 | 679 | -60 | 5 | 54 |  | -67 | 4 | 61 | 675 | -69 | 3 | 70 |
| 09 | 679 | -60 | 7 | 54 | 676 | -68 | 3 | 75 | 675 | -71 | 4 | 67 |
| 12 | 679 | -60 | 6 | 39 | 676 | -69 | 2 | 71 | 675 | -70 | 2 | 80 |
| 15 |  | -60 | 7 | 52 | 675 | -68 | 3 | 59 | 674 | -72 | 3 | 71 |
| 18 |  | -60 | 7 | 49 | 675 | -67 | 5 | 50 | 674 | -71 | 2 | 142 |
| 21 |  | -60 | 5 | 45 | 675 | -69 | 4 | 61 | 673 | -71 | 3 | 75 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |
| 00 | 668 | -68 | 3 | 63 | 672 | -71 | 2 | 29 | 675 | -74 | 1 | 37 |
| 03 | 668 | -67 | 4 | 56 | 672 | -73 | 1 | 61 | 675 | -71 | 2 | 29 |
| 06 |  | -66 | 4 | 33 | 673 | -72 | 1 | 73 | 675 | -75 | 1 | 75 |
| 09 | 669 | -70 | 3 | 56 | 673 | -74 | 2 | 64 | 675 | -76 | 1 | 74 |
| 12 | 669 | -71 | 3 | 68 | 674 | -74 | 1 | 63 | 675 | -75 | 1 | 70 |
| 15 | 670 | -72 | 2 | 53 | 674 | -71 | 1 | 40 | 676 | -74 | 0 | 0 |
| 18 | 671 | -67 | 3 | 37 | 674 | -69 | 2 | 66 | 676 | -67 | 4 | 9 |
| 21 | 671 | -73 | 2 | 40 | 674 | -76 | 2 | 80 | 676 | -67 | 4 |  |



MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-60.9$ StD dEV $=7.2$ MAX $=-42.4$ AT 2000 GMT ON DAY 9 MIN $=-76.2$ at 2120 GMT ON DAY 30
* theta (K) * MEAN $=237.37$
* PRESSURE (MB) * MEAN $=674.4$ STD DEV $=9.1$ MAX $=693.4$ at 10 GMT ON DAY 11 MIN $=657.0$ at 1800 GMt ON dAY 3
* WINDS (M/S) * MEAN $=4.9$ STD DEV $=2.6$ RESULTANT $=4.3$ FROM 26. CONSTANCY $=0.88$ MAX $=14.5$ FROM 18 . AT 110 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $16.1 \%$ WINDS: $0.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 22 & 24 & 18 & 23 & 7 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 4\end{array}$



MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-61.1$ STD DEV $=9.9$ MAX $=-36.0$ AT 1730 GMT ON DAY 24 MIN $=-80.6$ AT 1520 GMT ON DAY 14
* THETA (K) * MEAN $=237.40$
* PRESSURE (MB) * MEAN $=676.2$ STD DEV $=9.8$ MAX $=696.6$ AT 640 GMT ON DAY 25 MIN $=655.6$ AT 410 GMT ON DAY 14
* WINDS (M/S) * MEAN $=3.9$ STD DEV $=2.3$ RESULTANT $=3.0$ FROM 43. CONSTANCY $=0.77$ MAX $=14.8$ FROM 19 . AT 300 GMT DAY 27 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $17.9 \%$ WINDS: $0.4 \%$


PERCENT

$$
\begin{array}{lllllllllllllll}
11 & 20 & 9 & 22 & 17 & 11 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2
\end{array}
$$

683-48 $9 \quad 26$
684-49 4
683-48 8
$\begin{array}{llll}684 & -47 & 7 & 36\end{array}$
$\begin{array}{llll}683 & -46 & 9 & 42\end{array}$
$\begin{array}{llll}683 & -46 & 8 & 52\end{array}$
DAY 16
$\begin{array}{llll}679 & -59 & 2 & 73\end{array}$
$\begin{array}{llll}679 & -59 & 3 & 67\end{array}$
$\begin{array}{llll}678 & -57 & 1 & 67\end{array}$
$\begin{array}{llll}678 & -58 & 2 & 66\end{array}$
$\begin{array}{llll}678 & -60 & 2 & 71\end{array}$
$\begin{array}{llll}677 & -59 \quad 2 \quad 66\end{array}$
$\begin{array}{llll}677 & -58 & 3 & 63\end{array}$
677-55 $2 \quad 77$
DAY 23
$\begin{array}{llll}676 & -56 & 2146\end{array}$
$\begin{array}{llll}676 & -56 & 1 & 104\end{array}$
$\begin{array}{llll}677 & -55 & 1 & 94\end{array}$
677-55 282
678-58 1144
678-56 1150
$\begin{array}{llll}678 & -55 & 2161\end{array}$
$\begin{array}{llll}677 & -55 & 1 & 98\end{array}$
DAY 30
666-52 0
666-52 1105
$666-51 \quad 1135$
$\begin{array}{llll}665 & -52 & 1 & 80\end{array}$
$\begin{array}{llll}664 & -55 & 1 & 90\end{array}$
$\begin{array}{llll}664 & -53 & 0 & 0\end{array}$
664-51 0 0
663-52 177

PP TT VV DD DAY 3
$\begin{array}{llll}688 & -44 & 3 & 303\end{array}$
687-42 3289
$687-40 \quad 1305$
$686-40 \quad 3343$
$\begin{array}{llll}685 & -40 & 3 & 347\end{array}$
$\begin{array}{lll}684 & -40 & 286\end{array}$
684-40 0
$\begin{array}{llll}683 & -46 & 3 & 2\end{array}$ DAY 10
$\begin{array}{llll}683 & -45 & 7 & 46\end{array}$
$\begin{array}{llll}683 & -44 & 7 & 47\end{array}$
$\begin{array}{llll}683 & -45 & 7 & 39\end{array}$
$\begin{array}{llll}684 & -46 & 9 & 22\end{array}$
$\begin{array}{llll}685 & -49 & 6 & 32\end{array}$
$\begin{array}{llll}685 & -50 & 6 & 26\end{array}$
$\begin{array}{llll}685 & -49 & 5 & 37\end{array}$
685-51 553 DAY 17
$\begin{array}{lll}-56 & 3 & 61\end{array}$
$\begin{array}{llll}676 & -56 & 2 & 88\end{array}$
$\begin{array}{lll}-57 & 3 & 95\end{array}$
$\begin{array}{lll}-57 & 1 & 97\end{array}$
$\begin{array}{llll}674 & -58 & 1 & 74\end{array}$
$\begin{array}{llll}674 & -56 & 1 & 97\end{array}$
673-55 2112
673-56 364 DAY 24
$\begin{array}{lll}677 & -54 \quad 2167\end{array}$
$\begin{array}{llll}675 & -50 & 2 & 88\end{array}$
$\begin{array}{llll}674 & -50 & 2 & 77\end{array}$
$\begin{array}{llll}674 & -50 & 2112\end{array}$
674-54 2120
$\begin{array}{llll}673 & -52 & 3 & 122\end{array}$
672-50 4112
672-52 4102 DAY 31
663-51 0 0
662-52 0
662-52 0
$\begin{array}{llll}662 & -52 & 1 & 73\end{array}$
662-55 166
$\begin{array}{llll}662 & -53 & 1 & 61\end{array}$
$\begin{array}{cccc}663 & -50 & 142\end{array}$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-53.5$ STD DEV $=4.1$ MAX $=-38.6$ At 510 GMT ON DAY 3 MIN $=-61.4$ At 50 GMt ON dAY 1
* theta (K) * MEAN $=245.75$
* PRESSURE (MB) * MEAN $=677.2$ STD DEV $=7.6$ MAX $=689.9$ at 830 GMT ON DAY 7 MIN $=661.8$ AT 1000 GMT ON DAY 31
* WINDS (M/S) * MEAN $=2.5$ STD DEV $=1.7$ RESULTANT $=2.0$ FROM 68. CONSTANCY $=0.81$ MAX $=9.2$ fROM 37 . AT 220 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $6.5 \%$ WINDS: $0.0 \%$
 $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 39 & 46 & 11 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT

$$
\begin{array}{lrrrrrrrrrrrrrrr} 
\\
3 & 6 & 11 & 31 & 27 & 14 & 3 & 1 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 1
\end{array}
$$



* TEMPERATURE (C) * MEAN $=-33.7$ STD DEV $=6.0$ MAX $=-25.2$ AT 1730 GMT ON DAY 30 MIN $=-51.4$ AT 1240 GMT ON DAY 1
* THETA (K) * MEAN $=265.99$
* PRESSURE (MB)* MEAN $=692.9$ STD DEV $=9.4$ MAX $=703.8$ AT 1050 GMT ON DAY 23 MIN $=663.3$ AT 50 GMT ON DAY 1
* WINDS (M/S) * MEAN $=5.2$ STD DEV $=2.3$ RESULTANT $=4.6$ FROM 31. CONSTANCY $=0.90$ MAX $=12.2$ FROM 9. AT 200 GMT DAY 17
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.7 \%$ PRESSURE: $1.7 \%$ WINDS: $1.7 \%$
 PERCENT: WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllll}\text { PERCENT } & 19 & 36 & 16 & 21 & 5 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  | vV | DD | PP | IT | vV | DD | PP | TT | V | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 694 | -27 | 5 | 32 | 690 | -26 | 3 | 5 | 696 | -27 | 3 | 12 | 697 | -28 | 0 | 0 | 691 | -29 |  | 130 | 685 | -29 | 7 | 133 | 687 | -28 | 2 | 158 |
| 03 | 693 | -28 | 6 | 32 | 691 | -27 | 3 | 2 | 696 | -26 | 2 | 32 | 697 | -29 | 0 | 0 | 690 | -29 | 6 | 125 | 685 | -29 | 5 | 132 | 687 | -28 | 2 | 168 |
| 06 | 692 | -28 | 6 | 29 |  |  |  |  | 696 | -26 | 2 | 22 | 696 | -30 | 2 | 185 | 689 | -28 | 5 | 122 | 685 | -29 | 5 | 123 | 687 | -26 | 0 | 0 |
| 09 | 692 | -28 | 7 | 32 | 693 | -27 | 5 | 355 | 697 | -27 | 2 | 9 | 696 | -31 | 2 | 147 | 689 | -28 | 5 | 129 | 685 | -29 | 4 | 132 | 686 | -28 | 3 | 184 |
| 12 | 691 | -29 | 4 | 47 | 694 | -28 | 3 | 360 | 697 | -28 | 2 | 23 | 695 | -31 | 5 | 132 | 688 | -30 | 4 | 137 | 686 | -30 | 2 | 135 | 686 | -30 | 3 | 181 |
| 15 | 690 | -27 | 4 | 59 | 694 | -28 | 4 | 360 | 697 | -27 |  | 360 | 694 | -30 | 5 | 129 | 686 | -30 | 5 | 136 | 686 | -29 | 4 | 139 | 685 | -29 | 1 | 177 |
| 18 | 689 | -26 | 4 | 50 | 695 | -27 | 3 | 352 | 697 | -25 |  | 360 | 693 | -30 | 5 | 119 | 686 | -29 | 4 | 122 | 687 | -28 | 5 | 122 | 685 | -28 | 1 | 144 |
| 21 | 690 | -27 | 5 | 18 | 696 | -27 | 2 | 358 | 697 | -26 | 2 | 286 | 692 | -29 | 5 | 109 | 685 | -29 | 6 | 120 | 687 | -28 | 2 | 150 | 684 | -26 | 0 | 0 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 684 | -27 | 0 | 0 | 684 | -29 | 2 | 98 | 682 | -26 | 0 | 0 | 684 | -26 | 0 | 0 | 687 | -30 | 4 | 122 | 681 | -29 | 5 | 97 |  |  |  |  |
| 03 | 683 | -29 | 2 | 137 | 684 | -29 | 2 | 99 | 682 | -26 | 1 | 28 | 684 | -25 | 0 | 0 | 687 | -30 | 4 | 119 | 680 | -28 | 5 | 99 | 682 | -25 | 1 | 5 |
| 06 | 682 | -29 | 1 | 54 | 683 | -28 | 1 | 119 | 682 | -28 |  | 360 | 684 | -26 | 0 | 0 | 687 | -30 | 4 | 113 | 679 | -28 | 4 | 88 | 683 | -22 | 0 | 0 |
| 09 | 683 | -29 | 3 | 45 | 683 | -28 | 1 | 122 | 682 | -27 | 1 | 82 | 685 | -28 | 0 | 0 | 686 | -30 | 4 | 119 | 679 | -28 | 3 | 87 | 683 | -27 | 0 | 0 |
| 12 | 684 | -31 | 3 | 54 | 683 | -31 | 1 | 120 | 683 | -31 | 2 | 104 | 685 | -31 | 1 | 140 | 685 | -30 | 5 | 118 | 678 | -28 | 3 | 73 | 684 | -29 | 1 | 71 |
| 15 | 684 | -29 | 2 | 82 | 682 | -29 | 1 | 133 | 683 | -30 | 2 | 192 | 686 | -30 | 1 | 109 | 684 | -29 | 6 | 115 | 678 | -27 | 2 | 71 | 684 | -29 | 4 | 91 |
| 18 | 684 | -29 | 2 | 87 | 682 | -27 | 0 | 0 | 684 | -29 | 1 | 233 | 686 | -30 | 2 | 125 | 683 | -29 | 5 | 106 | 679 | -26 | 3 | 53 | 684 | -28 | 3 | 88 |
| 21 | 684 | -28 | 2 | 80 | 682 | -26 | 0 | 0 | 684 | -28 | 1 | 160 | 687 | -31 | 3 | 129 | 683 | -29 | 6 | 109 | 680 | -26 | 3 | 28 | 684 | -27 | 3 | 88 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 685 | -27 | 4 | 81 | 687 | -28 | 4 | 77 | 684 | -27 | 4 | 4 | 687 | -29 | 4 | 18 | 683 | -26 | 7 | 26 | 683 | -23 | 5 | 5 | 693 | -20 | 2 | 21 |
| 03 | 684 | -28 | 4 | 85 | 687 | -27 | 4 | 59 | 684 | -28 | 4 | 14 | 687 | -29 | 5 | 32 | 682 | -26 | 5 | 32 | 685 | -22 | 4 | 5 | 693 | -23 | 1 | 88 |
| 06 | 685 | -26 | 2 | 78 | 687 | -28 | 5 | 43 | 683 | -26 | 2 | 85 | 687 | -29 | 6 | 21 | 681 | -25 | 6 | 40 | 686 | -23 | 7 | 354 | 693 | -23 | 3 | 360 |
| 09 | 686 | -26 | 2 | 73 | 687 | -29 | 6 | 47 | 683 | -25 | 3 | 52 | 686 | -29 | 4 | 54 | 680 | -24 | 7 | 26 | 689 | -25 | 6 | 347 | 693 | -23 | 0 | 0 |
| 12 | 686 | -27 | 3 | 47 | 687 | -30 | 6 | 56 | 683 | -29 | 5 | 350 | 685 | -27 | 8 | 360 | 680 | -24 | 7 | 23 | 690 | -26 | 5 | 1 | 693 | -20 | 1 | 8 |
| 15 | 687 | -28 | 4 | 29 | 686 | -29 | 6 | 63 | 685 | -28 | 5 | 360 | 685 | -27 | 6 | 23 | 680 | -24 | 7 | 12 | 690 | -23 | 5 | 50 | 693 | -20 |  | 355 |
| 18 | 687 | -28 | 3 | 63 | 685 | -28 | 3 | 88 | 685 | -29 |  | 360 | 684 | -26 | 6 | 50 | 681 | -24 | 5 | 22 | 691 | -23 | 5 | 21 | 693 | -19 | 0 | 0 |
| 21 | 688 | -28 | 3 | 64 | 684 | -27 | 3 | 46 | 686 | -27 | 2 | 25 | 683 | -26 | 7 | 12 | 682 | -23 | 5 | 5 | 692 | -24 | 5 | 326 | 693 | -22 |  | 315 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  |  | 24 |  |  |  | 25 |  |  | DAY | 26 |  |  |  | 27 |  |  | DAY | 28 |  |
| 00 | 694 | -22 | 1 | 322 | 696 | -25 | 2 | 140 | 696 | -23 | 1 | 74 | 696 | -25 | 3 | 81 | 690 | -25 | 4 | 66 | 693 | -25 | 0 | 0 | 695 | -28 | 5 | 133 |
| 03 | 694 | -21 | 0 | 0 | 696 | -28 | 2 | 75 | 695 | -24 | 1 | 71 | 695 | -25 | 3 | 80 | 689 | -25 | 4 | 61 | 694 | -25 | 1 | 109 | 694 | -28 | 5 | 116 |
| 06 | 694 | -21 | 0 | 0 | 696 | -25 | 3 | 95 | 696 | -24 | 2 | 59 | 695 | -26 | 3 | 88 | 689 | -24 | 3 | 52 | 695 | -25 | 1 | 127 | 693 | -27 | 5 | 115 |
| 09 | 695 | -24 | 2 | 112 | 696 | -26 | 3 | 94 | 696 | -25 | 3 | 80 | 694 | -27 | 4 | 78 | 689 | -25 | 3 | 46 | 695 | -26 | 3 | 158 | 692 | -26 | 5 | 104 |
| 12 | 695 | -24 | 3 | 160 | 696 | -25 | 3 | 74 | 696 | -27 | 2 | 82 | 693 | -27 | 2 | 88 | 689 | -26 | 4 | 14 | 696 | -26 | 3 | 133 | 691 | -26 | 4 | 87 |
| 15 | 695 | -26 | 4 | 205 | 696 | -24 | 1 | 137 | 696 | -26 | 2 | 85 | 692 | -26 | 3 | 77 | 690 | -24 | 2 | 8 | 696 | -26 | 4 | 142 | 690 | -26 | 5 | 94 |
| 18 | 695 | -24 | 1 | 127 | 696 | -26 | 2 | 98 | 696 | -25 | 2 | 84 | 691 | -25 | 5 | 71 | 691 | -25 | 3 | 357 | 696 | -26 | 5 | 129 | 689 | -25 | 3 | 84 |
| 21 | 696 | -25 | 3 | 136 | 695 | -26 | 2 | 85 | 696 | -25 | 3 | 75 | 691 | -25 | 4 | 70 | 692 | -25 | 3 | 313 | 696 | -25 | 5 | 111 | 688 | -25 | 3 | 88 |
|  |  |  | 29 |  |  |  | 30 |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 688 | -25 | 4 | 104 | 687 | -24 | 4 | 67 | 686 | -25 |  | 358 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 687 | -25 | 4 | 97 | 687 | -24 | 5 | 88 | 687 | -21 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 686 | -25 | 4 | 94 | 687 | -24 | 5 | 92 | 688 | -24 | 2 | 37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 686 | -24 | 4 | 82 | 686 | -25 | 5 | 98 | 689 | -24 | 2 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 686 | -23 | 3 | 70 | 685 | -25 | 5 | 98 | 690 | -25 | 4 | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 687 | -23 | 3 | 45 | 685 | -24 | 3 | 53 | 691 | -25 | 2 | 74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 687 | -23 | 4 | 87 | 685 | -23 | 3 | 53 | 691 |  |  | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature (C) * mean $=-26.5$ Std dev $=2.4$ max $=-19.8$ At 110 GMt on day 21 min $=-31.6$ At 1240 GMt on day 11
* theta (K) * MEAN $=274.50$
* PRESSURE (MB) * MEAN $=688.4$ STD DEV $=5.0$ MAX $=697.1$ at 2050 GMT ON DAY 3 MIN $=678.2$ AT 1240 GMT ON DAY 13
* WINDS ( $\mathrm{M} / \mathrm{S}$ ) * MEAN $=3.1 \mathrm{STD}$ DEV $=1.8$ RESULTANT $=2.1$ fROM 69. CONSTANCY $=0.66$ MAX $=9.0$ fROM 14 . AT 2230 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW. SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 12 & 13 & 11 & 12 & 19 & 12 & 12 & 3 & 2 & 1 & 0 & 0 & 0 & 0 & 2 & 0\end{array}$
$\begin{array}{llr}\text { HR } \quad \text { PP } & \text { TT } & \text { VV } \\ & \text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 884 & -6 & 10 & 195\end{array}$
$\begin{array}{lllll}03 & 884 & -6 & 8 & 195\end{array}$
$\begin{array}{lllll}06 & 884 & -6 & 11 & 196\end{array}$
$\begin{array}{lllll}09 & 883 & -7 & 8 & 212\end{array}$
$\begin{array}{lllll}12 & 883 & -8 & 7 & 146\end{array}$
$\begin{array}{lllll}15 & 884 & -7 & 8 & 191\end{array}$
$\begin{array}{lllll}18 & 884 & -6 & 7 & 217\end{array}$
$\begin{array}{llll}21 & 884 & -7 & 5 \\ 212\end{array}$ DAY 8
$\begin{array}{lllll}00 & 880 & -13 & 7 & 198\end{array}$
$\begin{array}{lllll}03 & 881 & -12 & 6 & 181\end{array}$
$\begin{array}{lllll}06 & 881 & -12 & 4 & 184\end{array}$
$\begin{array}{lllll}09 & 881 & -12 & 2 & 201\end{array}$
$\begin{array}{llll}12 & 881 & -12 & 1264\end{array}$
$\begin{array}{lllll}15 & 881 & -12 & 3 & 358\end{array}$
$\begin{array}{lllll}18 & 881 & -13 & 4 & 8\end{array}$
$\begin{array}{lllll}21 & 881 & -11 & 3 & 29\end{array}$ DAY 15
$\begin{array}{lllll}00 & 880 & -10 & 18 & 212\end{array}$
$\begin{array}{lllll}03 & 880 & -10 & 17 & 201\end{array}$
$\begin{array}{lllll}06 & 881 & -10 & 17 & 196\end{array}$
$\begin{array}{lllll}09 & 883 & -10 & 9 & 206\end{array}$
$\begin{array}{lllll}12 & 883 & -11 & 11 & 180\end{array}$
$\begin{array}{lllll}15 & 884 & -10 & 15 & 180\end{array}$
$\begin{array}{lllll}18 & 884 & -11 & 10 & 206\end{array}$
$\begin{array}{llll}21 & 885 & -10 & 9201\end{array}$ DAY 22
$\begin{array}{lllll}00 & 889 & -10 & 7 & 195\end{array}$
03 890.-11 6227
$\begin{array}{lllll}06 & 890 & -10 & 8 & 202\end{array}$
$\begin{array}{llll}09 & 891 & -10 & 6 \\ 199\end{array}$
$\begin{array}{llll}12 & 892 & -10 & 2\end{array}$
$\begin{array}{lllll}15 & 893 & -9 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 893 & -6 & 1 & 348\end{array}$
$\begin{array}{lllll}21 & 893 & -7 & 2 & 345\end{array}$ DAY 29
$\begin{array}{lllll}00 & 885 & -13 & 11 & 181\end{array}$
$\begin{array}{lllll}03 & 884 & -14 & 9 & 199\end{array}$
$\begin{array}{lllll}06 & 883 & -13 & 15 & 201\end{array}$
$\begin{array}{lllll}09 & 884 & -14 & 11 & 202\end{array}$
$\begin{array}{lllll}12 & 884 & -13 & 12 & 208\end{array}$
$\begin{array}{lllll}15 & 884 & -14 & 11 & 195\end{array}$
$\begin{array}{lllll}18 & 884 & -15 & 9 & 202\end{array}$
$\begin{array}{lllll}21 & 886 & -14 & 12 & 188\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{llll}884 & -7 & 11 & 199\end{array}$
$\begin{array}{llll}884 & -7 & 9 & 198\end{array}$
$\begin{array}{llll}884 & -8 & 9 & 184\end{array}$
$\begin{array}{llll}884 & -7 & 6 & 191\end{array}$
884-10 6222
884-11 4225
884-10 2199
$884-9 \quad 1215$ DAY 9
882-11 $\quad 5 \quad 21$
882-10 $\quad 3 \quad 354$
$\begin{array}{llll}883 & -9 & 6 & 360\end{array}$
883-10 $4 \quad 15$
883-10 4333
884-10 $\quad 3 \quad 324$
$\begin{array}{llll}884 & -9 & 2 & 326\end{array}$
885-11 3251 DAY 16
886-10 7206
$\begin{array}{llll}887 & -8 & 8 & 213\end{array}$
$\begin{array}{llll}887 & -9 & 10 & 217\end{array}$
$\begin{array}{llll}887 & -10 & 7 & 174\end{array}$
$887-12 \quad 5 \quad 199$
888-10 $8 \quad 175$
$\begin{array}{llll}888 & -9 & 7210\end{array}$
$\begin{array}{llll}889 & -9 & 4 & 243\end{array}$ DAY 23
$\begin{array}{llll}894 & -7 & 2320\end{array}$
$\begin{array}{llll}893 & -5 & 2 & 1\end{array}$
$\begin{array}{llll}893 & -6 & 3 & 322\end{array}$
$\begin{array}{lll}893 & -7 & 2347\end{array}$
$892-8 \quad 4338$
$891 \quad-9 \quad 3330$
891-10 1230
890-10 3229 DAY 30
887-14 12196
888-13 $10 \quad 210$
$\begin{array}{llll}890 & -12 & 5 & 195\end{array}$
891-12 5180
892-11 $8 \quad 188$
892-10 1126
$\begin{array}{llllllll}893 & -7 & 1 & 4 & 894 & -10 & 2 & 203\end{array}$

PP TT VV DD PP TT VV DD PP TT VV DD DAY 4
$\begin{array}{llll}879 & -9 & 11 & 206\end{array}$
$\begin{array}{llll}878 & -7 & 16 & 202\end{array}$
878-11 10219
880-11 7184
881-12 0
$\begin{array}{llll}882 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}881 & -7 & 5 & 120\end{array}$
881 -6 1157 DAY 11
886-13 5209
$\begin{array}{llll}885 & -13 & 6 & 198\end{array}$
885-14 7213
$886-14 \quad 5202$
$\begin{array}{llll}886 & -14 & 4 & 189\end{array}$
$\begin{array}{llll}886 & -14 & 2 & 167\end{array}$
$\begin{array}{llll}886 & -14 & 2 & 122\end{array}$
886-13 2139
DAY 18
$\begin{array}{llll}892 & -6 & 1 & 102\end{array}$
$892-6 \quad 0 \quad 0$
$\begin{array}{llll}892 & -4 & 2 & 182\end{array}$
$893-4 \quad 1340$
$\begin{array}{llll}893 & -6 & 2 & 66\end{array}$
$\begin{array}{llll}893 & -6 & 1 & 70\end{array}$
$893-5 \quad 2151$
$\begin{array}{llll}894 & -4 & 1215\end{array}$

## DAY 25

886-13 9195
$\begin{array}{llll}885 & -12 & 9 & 213\end{array}$
$\begin{array}{llll}884 & -12 & 11 & 203\end{array}$
$\begin{array}{llll}883 & -10 & 7 & 189\end{array}$
$882-10 \quad 1 \quad 97$
$\begin{array}{llll}882 & -10 & 3 & 185\end{array}$
881-10 2182
$\begin{array}{llll}881 & -9 & 1 & 47\end{array}$

DAY 5
$\begin{array}{llllllll}882 & -6 & 4 & 355 & 885 & -4 & 2 & 329\end{array}$
$\begin{array}{llllllll}882 & -4 & 2 & 21 & 885 & -6 & 6 & 334\end{array}$
$\begin{array}{llllllll}882 & -4 & 3 & 8 & 885 & -5 & 6 & 329\end{array}$
$\begin{array}{llllllll}883 & -3 & 1 & 39 & 885 & -7 & 5 & 330\end{array}$
$\begin{array}{llllllll}883 & -4 & 2 & 153 & 885 & -8 & 5 & 302\end{array}$
$\begin{array}{llllllll}883 & -4 & 3 & 189 & -884 & -7 & 4 & 203\end{array}$
$\begin{array}{llllllll}884 & -6 & 3 & 213 & 883 & -7 & 2 & 262\end{array}$
$\begin{array}{llllllll}884 & -6 & 3 & 160 & 883 & -6 & 1 & 262\end{array}$
DAY 13
$\begin{array}{llll}887 & -8 & 6 & 185\end{array}$
$\begin{array}{llll}886 & -9 & 6 & 216\end{array}$
$\begin{array}{llll}886 & -10 \quad 4 & 189\end{array}$
886-10 6198
886-10 5201
$\begin{array}{llll}885 & -13 & 7 & 196\end{array}$
$\begin{array}{llll}884 & -14 & 9 & 189\end{array}$
$\begin{array}{llll}884 & -14 & 7 & 180\end{array}$
DAY 20
$\begin{array}{llll}891 & -7 & 8 & 208\end{array}$
$\begin{array}{llll}891 & -7 & 6 & 210\end{array}$
$\begin{array}{llll}890 & -9 & 8 & 189\end{array}$
$\begin{array}{llll}890 & -12 & 4 & 198\end{array}$
$\begin{array}{llll}889 & -12 & 8 & 181\end{array}$
888-13 6192
888-11 9203
888-13 7201 DAY 27
884-11 6212
$\begin{array}{llll}884 & -9 & 5 & 209\end{array}$
$\begin{array}{llll}884 & -10 & 5 & 185\end{array}$
$885-10 \quad 4202$
$\begin{array}{llll}886 & -10 & 3 & 188\end{array}$
886-10 $\quad 3 \quad 185$
$\begin{array}{llll}887 & -9 & 4 & 178\end{array}$
888-10 $\quad 3 \quad 163$

PP TT WV DD DAY 7
$\begin{array}{llll}882 & -7 & 4341\end{array}$
$\begin{array}{llll}882 & -6 & 0 & 0\end{array}$
$\begin{array}{llll}881 & -8 & 1 & 262\end{array}$
881 -10 1291
880-10 2241
880-12 2205
880-12 $\quad 4 \quad 195$
$880-13 \quad 5 \quad 189$
DAY 14
884-13 6191
884-11 8189
$\begin{array}{llll}884 & -9 & 11 & 206\end{array}$
$\begin{array}{llll}883 & -8 & 16 & 199\end{array}$
$\begin{array}{llll}882 & -9 & 15 & 182\end{array}$
$\begin{array}{llll}881 & -11 & 13 & 178\end{array}$
$\begin{array}{llll}881 & -9 & 18 & 196\end{array}$
$\begin{array}{llll}880 & -10 & 18 & 175\end{array}$
DAY 21
$\begin{array}{llll}888 & -13 & 10 & 194\end{array}$
$\begin{array}{llll}888 & -13 & 7 & 203\end{array}$
$888-11 \quad 5202$
$\begin{array}{llll}888 & -10 & 2 & 191\end{array}$
$\begin{array}{llll}888 & -9 & 3 & 161\end{array}$
$\begin{array}{llll}888 & -10 & 5 & 192\end{array}$
$887-11 \quad 4 \quad 181$
$888-105163$
DAY 28
$888 \quad-9 \quad 4212$
$\begin{array}{llll}888 & -9 & 5 & 194\end{array}$
$888-11 \quad 5196$
888-12 $\quad 8 \quad 194$
887-12 9205
$886-1211203$
$\begin{array}{llll}885 & -12 & 12 & 201\end{array}$
$\begin{array}{llll}885 & -14 & 11 & 194\end{array}$

* TEMPERATURE (C) * MEAN $=-9.5$ STD DEV $=2.5$ MAX $=-2.9$ AT 930 GMT ON DAY 5 MIN $=-15.0$ AT 1640 GMT ON DAY 29
* THETA (K) * MEAN = 273.00
* PRESSURE (MB) * MEAN $=886.0$ STD DEV $=4.1$ MAX $=894.2$ AT 2220 GMT ON DAY 18 MIN $=877.2$ AT 400 GMT ON DAY 4
* WINDS (M/S) * MEAN $=5.5$ STD DEV $=4.0$ RESULTANT $=4.5$ FROM 198. CONSTANCY $=0.81$ MAX $=22.6$ FROM 201 . AT 2130 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllllllll} & 5 & 2 & 1 & 1 & 0 & 1 & 2 & 8 & 23 & 37 & 7 & 1 & 2 & 1 & 2 & 5\end{array}$

| FEB | 97 |  |  |
| :---: | :---: | :---: | :---: |
| HR | PP |  | VV DD |
|  |  | DAY | 1 |
| 00 | 893 | -11 | 4219 |
| 03 | 893 | -12 | 7181 |
| 06 | 893 | -11 | 5178 |
| 09 | 894 | -11 | 6189 |
| 12 | 894 | -12 | 1144 |
| 15 | 894 | -11 | 192 |
| 18 | 894 | -10 | 1133 |
| 21 | 894 | -10 | 3350 |
|  |  | DAY | 8 |
| 00 | 883 | -14 | 4247 |
| 03 | 883 | -16 | 4180 |
| 06 | 884 | -15 | 4178 |
| 09 | 884 | -14 | 4196 |
| 12 | 885 | -15 | 2154 |
| 15 | 885 | -14 | 2154 |
| 18 | 885 | -13 | 1146 |
| 21 | 886 | -12 | 2161 |
|  |  | DAY | 15 |
| 00 | 882 | -20 | 196 |
| 03 | 882 | -19 | 6189 |
| 06 | 882 | -18 | 7184 |
| 09 | 882 | -19 | 11216 |
| 12 | 882 | -20 | 12196 |
| 15 | 883 | -20 | 10199 |
| 18 | 883 | -19 | 5189 |
| 21 | 884 | -18 | 10212 |
|  |  | DAY | 22 |
| 00 | 878 | -23 | 4139 |
| 03 | 878 | -22 | 90 |
| 06 | 878 | -20 | 4160 |
| 09 | 878 | -19 | 5187 |
| 12 | 878 | -19 | 3147 |
| 15 | 878 | -22 | 2129 |
| 18 | 879 | -21 | 4345 |
| 21 | 879 | -20 | 6357 |



PP TT VV DD DAY 4
$\begin{array}{llll}892 & -9 & 2147\end{array}$
$\begin{array}{llll}891 & -8 & 4 & 158\end{array}$
$\begin{array}{lll}890 & -9 & 2336\end{array}$
$\begin{array}{llll}890 & -9 & 1 & 241\end{array}$
889-10 1248
888-11 3291
$\begin{array}{llll}888 & -9 & 1 & 15\end{array}$
$\begin{array}{llll}887 & -9 & 4 & 317\end{array}$ DAY 11
888-15 2115
888-15 2143
888-17 2147
$\begin{array}{llll}889 & -17 & 2153\end{array}$
889-17 4216
888-18 6213
889-19 7216
889 -20 5170 DAY 18
890 -20 3171
889-19 2213
888-18 34
888-20 4360
$887-21 \quad 4360$
$\begin{array}{llll}886 & -20 & 2 & 23\end{array}$
$\begin{array}{llll}886 & -18 & 3 & 23\end{array}$
886-18 $\quad 4 \quad 70$
DAY 25
884-18 3156
885-17 2341
$\begin{array}{llll}885 & -17 & 5 & 351\end{array}$
886-19 3351
887-19 3 8
887-19 $2 \quad 15$
888 -20 249
$889-18 \quad 1165$


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-17.1$ std dev $=4.7$ max $=-7.4$ at 130 gMt on day 4 min $=-26.0$ at 2350 GMt ON day 28
* theta (K) * MEAN $=265.22$
* PRESSURE (MB) * MEAN $=884.9$ STD DEV $=5.1$ MAX $=895.2$ at 1500 GMT ON DAY 2 MIN $=869.7$ at 1810 GMt ON DAY 28
* WINDS (M/S) * MEAN $=5.5$ STD DEV $=4.6$ RESULTANT $=2.4$ FROM 188. CONSTANCY $=0.43$ MAX $=29.1$ FROM 192. AT 620 GMT DAY 20 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \%$ WINDS: $0.9 \%$

WIND SPEED (M/S): 0-2 2-4 $4-6$ 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW $\quad$ SW WSW $W$ WNW NW NNW
PERCENT



* TEMPERATURE (C) * MEAN $=-23.4 \mathrm{STD}$ DEV $=3.6 \mathrm{MAX}=-13.6$ AT 620 GMT ON DAY 3 MIN $=-32.6$ AT 50 GMT ON DAY 30
* THETA (K) * MEAN $=259.63$
* PRESSURE (MB) * MEAN $=873.3$ STD DEV $=8.9$ MAX $=891.9$ AT 830 GMT ON DAY 25 MIN $=845.5$ AT 1810 GMT ON DAY 29
* WINDS (M/S) * MEAN $=4.6$ STD DEV $=4.2$ RESULTANT $=0.6$ FROM 225 . CONSTANCY $=0.12$ MAX $=26.5$ FROM 191. AT 1610 GMT DAY 30
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $1.2 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{llllllllllllllll}27 & 5 & 0 & 3 & 1 & 3 & 4 & 6 & 14 & 15 & 5 & 1 & 0 & 0 & 9 & 6\end{array}$

APR 97
$\begin{array}{llll}\text { HR } \quad \text { PP TT VV DD } \\ & \text { DAY } & 1\end{array}$ $\begin{array}{lllll}00 & 867 & -30 & 2 & 167\end{array}$
$\begin{array}{lllll}03 & 864 & -27 & 3 & 345\end{array}$
$\begin{array}{llll}06 & 862 & -29 & 5 \\ 337\end{array}$
$\begin{array}{lllll}09 & 862 & -27 & 1 & 80\end{array}$
$\begin{array}{lllll}12 & 863 & -27 & 3 & 15\end{array}$
$\begin{array}{lllll}15 & 865 & -24 & 9 & 194\end{array}$
$\begin{array}{lllll}18 & 866 & -23 & 8 & 198\end{array}$
$\begin{array}{llll}21 & 867 & -25 & 7 \\ 360\end{array}$
DAY 8
$00 \quad 869-23 \quad 9360$
$\begin{array}{lllll}03 & 871 & -22 & 8 & 119\end{array}$
$\begin{array}{lllll}06 & 872 & -22 & 10 & 2\end{array}$
$\begin{array}{lllll}09 & 872 & -24 & 8 & 4\end{array}$
$\begin{array}{lllll}12 & 875 & -24 & 6 & 29\end{array}$
$\begin{array}{lllll}15 & 877 & -25 & 5 & 360\end{array}$
$\begin{array}{lllll}18 & 879 & -26 & 7 & 360\end{array}$
$\begin{array}{lllll}21 & 881 & -24 & 10 & 22\end{array}$ DAY 15
$\begin{array}{lllll}00 & 874 & -31 & 3 & 360\end{array}$
$\begin{array}{llllll}03 & 874 & -32 & 17 & 165\end{array}$
$\begin{array}{llllll}06 & 875 & -30 & 13 & 202\end{array}$
$\begin{array}{llllll}09 & 878 & -29 & 12 & 217\end{array}$
$\begin{array}{lllll}12 & 878 & -29 & 12 & 191\end{array}$
$\begin{array}{llllll}15 & 879 & -28 & 12 & 205\end{array}$
$\begin{array}{lllll}18 & 881 & -27 & 12 & 215\end{array}$
$\begin{array}{lllll}21 & 882 & -27 & 13 & 85\end{array}$
DAY 22
00 887-31
$\begin{array}{llll}03 & 886 & -31\end{array}$
$06 \quad 886-32$
$\begin{array}{lllll}09 & 886 & -32 & 6 & 2\end{array}$
$\begin{array}{lllll}12 & 886 & -33 & 4 & 360\end{array}$
$\begin{array}{lllll}15 & 885 & -34 & 6 & 360\end{array}$
$\begin{array}{lllll}18 & 884 & -31 & 5 & 21\end{array}$
$\begin{array}{llll}21 & 883 & -35 & 3 \\ 360\end{array}$ DAY 29
$\begin{array}{lllll}00 & 872 & -26 & 3 & 18\end{array}$
$03 \quad 870-29$
$06 \quad 870$-32
$\begin{array}{lllll}09 & 871 & -34 & 4 & 151\end{array}$
$\begin{array}{lllll}12 & 872 & -33 & 7 & 202\end{array}$
$\begin{array}{lllll}15 & 871 & -33 & 10 & 184\end{array}$
$\begin{array}{lllll}18 & 872 & -32 & 7 & 181\end{array}$
$\begin{array}{llll}21 & 872 & -31 & 7 \\ 194\end{array}$

PP TT VV DD PP TT VV DD DAY 2
869-25 1130
$\begin{array}{lll}871 & -26 \quad 6 \quad 170\end{array}$
$\begin{array}{llll}873 & -27 & 9 & 360\end{array}$
$\begin{array}{llll}874 & -26 & 8 & 181\end{array}$
874-28
873-28
873-28
$\begin{array}{llll}873 & -27 & 634\end{array}$
DAY
882-25 8360
882-26 $\quad 6 \quad 2$
882-26 $\quad 5 \quad 177$
881-27
880-28
878-29
877-27
876-27 DAY 16
884-26 5130 $\begin{array}{llll}884 & -25 & 6 & 194\end{array}$ $884-24 \quad 4 \quad 216$
$\begin{array}{llll}884 & -23 & 3 & 174\end{array}$ 885-23 4182 $\begin{array}{llll}886 & -23 & 3 & 198\end{array}$ $\begin{array}{llll}886 & -22 & 1 & 180\end{array}$
887-20 178
DAY 23
882-35
880-36
880-35
$\begin{array}{llll}879 & -35 & 7 & 129\end{array}$
$\begin{array}{lllll}880 & -36 & 10 & 167\end{array}$
$\begin{array}{llll}881 & -37 & 5 & 360\end{array}$
$\begin{array}{lllll}881 & -37 & 3 & 135\end{array}$
880 -39 $4 \quad 35$ DAY 30
872-30 4209
871-30 0 0
$\begin{array}{llll}870 & -31 & 5 & 317\end{array}$
$\begin{array}{llll}871 & -32 & 5 & 326\end{array}$
$\begin{array}{llll}872 & -31 & 1 & 30\end{array}$
$\begin{array}{llll}873 & -31 & 1 & 82\end{array}$
$\begin{array}{llll}874 & -32 & 3 & 122\end{array}$
$\begin{array}{llll}874 & -32 & 6154\end{array}$

DAY 3
874-26 1223
$\begin{array}{llll}875 & -26 & 1 & 70\end{array}$
$\begin{array}{llll}876 & -26 & 7 & 217\end{array}$
$\begin{array}{llll}876 & -24 & 7 & 205\end{array}$
$876-2411 \quad 213$
$\begin{array}{llll}876 & -30 & 8 & 360\end{array}$
$\begin{array}{llll}875 & -32 & 14 & 37\end{array}$
875 -36 13360 DAY 10
876-28
875-28
874-31
874-32
873-33
873-33
872-33 0 0
871-32 0

## DAY 17

889-20 0 0
889-20 2
$890-22 \quad 5156$
890-22 12223
$890-24 \quad 9126$
$890-22 \quad 9358$
890-22 13329
893 -24 8327 DAY 24
$\begin{array}{llll}879 & -39 & 5 & 30\end{array}$
$\begin{array}{llll}877 & -38 & 5 & 1\end{array}$
$\begin{array}{llll}877 & -39 & 4 & 261\end{array}$
$\begin{array}{llll}875 & -39 & 6 & 4\end{array}$
$\begin{array}{llll}875 & -39 & 3 & 2\end{array}$
$\begin{array}{llll}874 & -37 & 1 & 37\end{array}$
$\begin{array}{llll}873 & -36 & 3 & 99\end{array}$
$\begin{array}{llll}874 & -36 & 1 & 109\end{array}$

PP TT VV DD DAY 4
876-32 16203
876-29 $18 \quad 234$
877-26 17175
$\begin{array}{llll}876 & -25 & 8 & 174\end{array}$
877-25 14213
874-24 24199
874-22 24198
873 -22 23194
DAY 11
$\begin{array}{llll}870 & -32 & 0 & 0\end{array}$
870-32 0
869-33
869-33
868-32
868-33
867-33
868-32
DAY 18
895-24 7295
897-24 5 234
$899-22 \quad 5195$
900-22 5192
901-22 5195
902-20 6188
$\begin{array}{llll}902 & -20 & 5 & 168\end{array}$
903-20 3201
DAY 25
874-36 6198
$\begin{array}{lll}873 & -36 & 14180\end{array}$
$874-4016360$
$877-4215201$
$\begin{array}{lllll}875 & -39 & 10 & 184\end{array}$
$\begin{array}{llll}873 & -34 & 7 & 215\end{array}$
872-32 9206
$870-30 \quad 4189$

PP TT VV DD PP TT VV DD DAY 5
875-23 14167
873 -21 17213
872-19 18191
870-17 16201
$866-1613203$
858-17 28208
$853-1535202$
$\begin{array}{llll}858 & -34 & 27 & 75\end{array}$ DAY 12
868-32 0
868-31 0
868-31
869-30
870-29
870-29 0 0 870-32 0 871-31 0 0 DAY 19
904-20 0
904-21 2341
903-22 3360
902-20 $\quad 3 \quad 324$
902-21 4323
901-19 5326
$\begin{array}{llll}900 & -20 & 2 & 18\end{array}$
900-19 2. 341

## DAY 26

868-31 6298
$866-30 \quad 6307$
$865-31 \quad 4329$
866-29 $0 \quad 0$
868-30 2201
869-33 11205
$\begin{array}{llll}868 & -35 & 16 & 172\end{array}$
868-37 $19 \quad 49$

## DAY 6

865-34 22360
867-32 14
866-25 22136
868-19 14160
867-20 8303
$\begin{array}{rrr}869 & -24 & 960\end{array}$
$\begin{array}{llll}870 & -27 & 8 & 360\end{array}$
869 -26 8360 DAY 13
871-31 0 0
872-33 $0 \quad 0$
$\begin{array}{llll}872 & -33 & 0 & 0\end{array}$
871-32 0
$\begin{array}{llll}871 & -32 & 0 & 0\end{array}$
$\begin{array}{llll}871 & -32 & 0 & 0\end{array}$
871-32 0
872-30 0
DAY 20
$\begin{array}{llll}899 & -17 & 170\end{array}$
$\begin{array}{lll}898 & -17 & 2158\end{array}$
$\begin{array}{llll}898 & -19 & 3 & 73\end{array}$
$\begin{array}{llll}897 & -17 & 3 & 84\end{array}$
$\begin{array}{llll}896 & -17 & 2 & 68\end{array}$
895-18 3358
895-18 4360
894-19 $4 \quad 8$ DAY 27
$\begin{array}{llll}870 & -35 & 18 \\ 178\end{array}$
869-32 10180
867-31 12182
867-29 10210
867-29 11191
868 -28 8195
$\begin{array}{llll}869 & -27 & 9 & 168\end{array}$
871-26 6209

PP TT VV DD DAY 7
869-23 4360
868-20 4232
866-19 4229
865-17 7196
864-16 13132
863-15 14360
864-22 12360
867-23 11360 DAY 14
871-30 0 0
870-30 0
$\begin{array}{llll}871 & -29 & 0 & 0\end{array}$
$\begin{array}{llll}870 & -28 & 11 & 178\end{array}$
$\begin{array}{llll}870 & -28 & 7 & 202\end{array}$
869-28 15198
$\begin{array}{lll}871 & -29 & 15 \\ 225\end{array}$
$\begin{array}{llll}873 & -27 & 7 & 194\end{array}$ DAY 21
893-20 3320
893-19 1217
892-18 1
$\begin{array}{llll}891 & -20 & 3 & 15\end{array}$
$\begin{array}{llll}891 & -22 & 3 & 15\end{array}$
890-24 2348
$\begin{array}{llll}889 & -25 & 3 & 7\end{array}$
$\begin{array}{llll}888 & -27 & 2 & 23\end{array}$
DAY 28
$\begin{array}{llll}873 & -26 & 8 & 201\end{array}$
$\begin{array}{llll}874 & -26 & 8 & 209\end{array}$
$\begin{array}{llll}874 & -25 & 13 & 201\end{array}$
$\begin{array}{lllll}876 & -23 & 14 & 208\end{array}$
877-24 11185
877-27-8 202
$\begin{array}{llll}874 & -27 & 6 & 196\end{array}$
$\begin{array}{llll}874 & -28 & 3 & 360\end{array}$

* temperature ( $C$ ) * mean $=-27.5$ Std dev $=5.7$ max $=-14.4$ at 1330 GMt on day 5 min $=-44.1$ at 730 GMt on day 25
* theta (K) * MEAN $=255.07$
* PRESSURE (MB) * MEAN $=876.8$ STD DEV $=10.3$ MAX $=904.1$ AT 2330 GMT ON DAY 18 MIN $=847.5$ AT 1840 GMT ON DAY 5
* WINDS (M/S) * MEAN $=7.1 \mathrm{StD}$ DEV $=6.1$ RESULTANT $=2.2$ FROM 197. CONSTANCY $=0.30 \mathrm{MAX}=48.2$ FROM 202. AT 1830 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $12.9 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 20 & 6 & 3 & 3 & 3 & 2 & 4 & 6 & 13 & 23 & 7 & 0 & 1 & 2 & 4 & 4\end{array}$

HR PP TT VV DD PP TT VV DD PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 874 & -32 & 6 & 189\end{array}$
$\begin{array}{lllll}03 & 874 & -32 & 10 & 199\end{array}$
$\begin{array}{lllll}06 & 875 & -31 & 9 & 191\end{array}$
$09 \quad 875-30 \quad 9198$
$\begin{array}{llll}12 & 874 & -29 & 12 \\ 194\end{array}$
$\begin{array}{lllll}15 & 871 & -32 & 19 & 178\end{array}$
$\begin{array}{lllll}18 & 869 & -36 & 22 & 360\end{array}$
$\begin{array}{llll}21 & 867 & -36 & 20\end{array} 198$ DAY 8
$\begin{array}{lllll}00 & 876 & -26 & 2 & 180\end{array}$
$\begin{array}{lllll}03 & 876 & -24 & 1 & 189\end{array}$
$\begin{array}{lllll}06 & 876 & -23 & 2 & 345\end{array}$
$\begin{array}{lllll}09 & 875 & -23 & 6 & 317\end{array}$
$\begin{array}{lllll}12 & 874 & -26 & 7 & 352\end{array}$
$\begin{array}{lllll}15 & 872 & -24 & 9 & 315\end{array}$
$\begin{array}{lllll}18 & 870 & -25 & 10 & 146\end{array}$
$\begin{array}{lllll}21 & 869 & -24 & 7 & 1\end{array}$ DAY 15
$\begin{array}{lllll}00 & 873 & -38 & 16 & 198\end{array}$
$\begin{array}{lllll}03 & 874 & -39 & 19 & 215\end{array}$
$\begin{array}{lllll}06 & 874 & -37 & 19 & 215\end{array}$
$\begin{array}{lllll}09 & 872 & -39 & 20 & 70\end{array}$
$\begin{array}{lllll}12 & 869 & -38 & 29 & 205\end{array}$
$\begin{array}{lllll}15 & 865 & -30 & 22 & 177\end{array}$
$\begin{array}{llll}18 & 858 & -27 & 31 \\ 206\end{array}$
$\begin{array}{llll}21 & 855 & -25 & 35\end{array} 188$ DAY 22
$\begin{array}{llll}00 & 872 & -25 & 3\end{array}$
$03 \quad 870-29$
$06 \quad 869-31$
$09 \quad 868$ - 34
$\begin{array}{lllll}12 & 867 & -34 & 6 & 360\end{array}$
$\begin{array}{lllll}15 & 866 & -34 & 9 & 360\end{array}$
$\begin{array}{lllll}18 & 866 & -34 & 6 & 99\end{array}$
$\begin{array}{lllll}21 & 864 & -35 & 9 & 146\end{array}$ DAY 29
$\begin{array}{lllll}00 & 861 & -20 & 14 & 201\end{array}$
$\begin{array}{lllll}03 & 861 & -17 & 6 & 203\end{array}$
$\begin{array}{llll}06 & 860 & -13 & 4 \\ 210\end{array}$
$09 \quad 858-13 \quad 4352$
$\begin{array}{llll}12 & 857 & -12 & 5\end{array} 196$
$\begin{array}{lllll}15 & 857 & -10 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 858 & -14 & 3 & 75\end{array}$
$\begin{array}{llll}21 & 859 & -15 \quad 4 \quad 23\end{array}$

DAY 2
864-35 17194
862-30 21202
860-28 18201
858-26 25195
857-24 16203
854-22 14192
853-25 25194
852-25 26203 DAY 9
$\begin{array}{lll}868 & -26 \quad 4 & 1\end{array}$
867-24 27
$\begin{array}{llll}866 & -27 & 4 & 60\end{array}$
$\begin{array}{llll}866 & -24 \quad 1 & 92\end{array}$
$\begin{array}{llll}866 & -27 & 2 & 150\end{array}$
$\begin{array}{llll}865 & -31 & 11\end{array}$
$\begin{array}{llll}864 & -31 & 5 & 153\end{array}$
$\begin{array}{llll}863 & -31 & 3 & 184\end{array}$
DAY 16
$\begin{array}{llll}856 & -23 & 23 & 199\end{array}$
$\begin{array}{llll}855 & -21 & 28 & 196\end{array}$
$852-21 \quad 29191$
$850-2032195$
848-19 24208
846-18 31201
848-18 22199
849-19 14244 DAY 23
$862-356187$ 861-34 6 205 859-33 8199 859-31 9215 $859-30 \quad 9198$ $\begin{array}{llll}861 & -29 & 6 & 188\end{array}$ 862 $-27 \quad 8 \quad 185$ $861-25 \quad 14 \quad 205$ DAY 30
$860-20 \quad 3127$
$861-22 \quad 10360$
$862-2910360$
$863-2911 \quad 15$
$863-2710160$
$865-28 \quad 12192$
$866-2912196$
$867-2910185$

DAY 3

852-22 30195
$850-2731 \quad 95$
855-30 23123
853-28 23 32
856-27 $17 \quad 8$
854-25 24195
$\begin{array}{llll}854 & -24 & 26 & 57\end{array}$
$854-2814 \quad 43$ DAY 10
863-31 8194
$863-34 \quad 6194$
$\begin{array}{llll}864 & -35 & 6 & 187\end{array}$
$\begin{array}{llll}865 & -36 & 4 & 151\end{array}$
865-33 $\quad 3 \quad 165$
866-34 5236
$\begin{array}{llll}866 & -33 & 3 & 191\end{array}$
$\begin{array}{llll}866 & -33 & 5 & 167\end{array}$ DAY 17
$\begin{array}{llll}855 & -25 & 18 & 163\end{array}$
857-25 $17 \quad 5$
$864-25 \quad 24 \quad 56$
$866-25 \quad 23116$
$868-2516212$
$\begin{array}{llll}872 & -24 & 13 & 1\end{array}$
$875-25 \quad 16 \quad 360$
877-25 15230 DAY 24

859-28 24209
857-29 29146
860-32 $23 \quad 97$
864-32 21360
$\begin{array}{lllll}866 & -32 & 21 & 187\end{array}$
$\begin{array}{llll}867 & -28 & 15 & 184\end{array}$
$\begin{array}{llll}868 & -26 & 14 & 199\end{array}$
$\begin{array}{llll}868 & -26 & 14 & 188\end{array}$ DAY 31
868-27 10206
$\begin{array}{llll}868 & -27 & 12 & 185\end{array}$
$\begin{array}{llll}869 & -29 & 14 & 198\end{array}$
$870-3118120$
$870-31 \quad 12360$
871 -31 16360
872-31 164
$\begin{array}{llll}873 & -32 & 20 & 360\end{array}$

PP TT VV DD DAY 4

853-24 20108
851-24 2157 $849-2323201$

851-22 16360 849 -21 20360 851 -20 20105 852-22 1988 $856-2215178$ DAY 11
$866-33 \quad 4192$
$866-31 \quad 3136$
867-31 3305
867-30 0
867-30 1323
867-30 3317
867-30 $\quad 3 \quad 315$
867-32 1175 DAY 18
$\begin{array}{llll}876 & -22 & 14 & 111\end{array}$
$874-1915212$
$\begin{array}{llll}871 & -18 & 14 & 191\end{array}$
868-16 9194
865-14 6210
862-19 10225
860-19 $17 \quad 74$
859 -20 1580 DAY 25

868 -23 10212 $\begin{array}{llll}868 & -25 & 23 & 189\end{array}$ $868-28 \quad 24 \quad 182$ $\begin{array}{llll}869 & -29 & 17 & 123\end{array}$ $\begin{array}{lllll}870 & -31 & 19 & 174\end{array}$ $871-29 \quad 5 \quad 56$ $\begin{array}{llll}870 & -25 & 7 & 146\end{array}$ $869-24 \quad 2275$

PP TT VV DD DAY 5
857-26 22360
859-26 1925
859 -23 14360
$861-237$
861-23 6 5
$860-25 \quad 16 \quad 61$
862-28 14360
$865-28 \quad 9113$ DAY 12
$\begin{array}{llll}868 & -34 & 5 & 175\end{array}$
$\begin{array}{llll}868 & -34 & 4 & 165\end{array}$
$\begin{array}{llll}869 & -34 & 3 & 199\end{array}$
$\begin{array}{lllll}869 & -35 & 7 & 163\end{array}$
$\begin{array}{llll}870 & -35 & 5 & 191\end{array}$
$\begin{array}{lllll}870 & -35 & 10 & 181\end{array}$
$\begin{array}{llll}871 & -38 & 7 & 191\end{array}$
$\begin{array}{llll}871 & -38 & 14 & 199\end{array}$ DAY 19
861-18 17198
$\begin{array}{cccc}862 & -18 & 10 & 177\end{array}$
$\begin{array}{llll}863 & -18 & 13 & 158\end{array}$
$\begin{array}{llll}865 & -18 & 14 & 165\end{array}$
866-18 16210
867-18 19196
$870-2112360$
$872-2011360$ DAY 26

868 -25 3360
$869-25 \quad 2330$
$869-25 \quad 5310$
$\begin{array}{llll}871 & -24 & 0 & 0\end{array}$
$872-24 \quad 5336$
874-22 00
$\begin{array}{llll}877 & -23 & 0 & 0\end{array}$
$879-2411209$

PP TȚ VV DD DAY 6
866-28 8360
867-28 8156
867-30 $7 \quad 23$
867-29 7182
867-29 6 194
868-28 4210
867-28 5217
$866-26 \quad 4199$
DAY 13
872-39 11195
$\begin{array}{llll}871 & -41 & 13 & 196\end{array}$
$\begin{array}{llll}872 & -39 & 14 & 12\end{array}$
872-38 $12 \quad 206$
$\begin{array}{llll}873 & -39 & 7 & 5\end{array}$
$\begin{array}{llll}873 & -36 & 11 & 188\end{array}$
$\begin{array}{llll}874 & -33 & 10 & 199\end{array}$
$\begin{array}{llll}874 & -36 & 13 & 196\end{array}$ DAY 20
873-18 6156
874-17 5209
$\begin{array}{llll}874 & -17 & 3 & 163\end{array}$
875-18 0
876-26 0
877-24 2205
$878-24 \quad 6182$
879-24 9 222
DAY 27
882-25 9191
883-23 8 205
$883-21 \quad 5157$
884-22 1215
$884-216184$
883-20 7195
$883-22 \quad 216$
881-22 6340

PP TT VV DD DAY 7
866-26 1126
$866-25 \quad 2195$
$\begin{array}{rrrr}866 & -26 & 4 & 4 \\ 868 & -26 & 4 & 350\end{array}$
$868-26 \quad 4350$
869-27 4355
871 -28 2127
$\begin{array}{llll}873 & -26 & 5 & 164 \\ 875 & -27 & 9 & 187\end{array}$
DAY 14
$\begin{array}{llll}876 & -33 & 8 & 178\end{array}$
$\begin{array}{lllll}876 & -32 & 8 & 201\end{array}$
$\begin{array}{llll}877 & -32 & 5 & 182\end{array}$
877-32 3210
$\begin{array}{llll}877 & -32 & 8 & 182\end{array}$
$\begin{array}{llll}877 & -31 & 7 & 189\end{array}$
$875-3112217$
$\begin{array}{llll}874 & -31 & 13 & 194\end{array}$
DAY 21
$\begin{array}{llll}880 & -26 & 9 & 91\end{array}$
$\begin{array}{llll}880 & -25 & 6 & 2\end{array}$
$\begin{array}{llll}880 & -26 & 6 & 87\end{array}$
880-25
878-25
876-23
875-24
$873-254360$
DAY 28
$880-23 \quad 3357$
878 -22 0
$\begin{array}{llll}875 & -21 & 4 & 60\end{array}$
$\begin{array}{llll}872 & -18 & 2 & 341\end{array}$
868-16 4216
$\begin{array}{llll}865 & -15 & 4 & 187\end{array}$
$\begin{array}{llll}862 & -16 & 5 & 199\end{array}$
861-17 9192

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-26.5$ STD DEV $=6.0$ MAX $=-10.4$ AT 1440 GMT ON DAY 29 MIN $=-41.4$ AT 330 GMT ON DAY 13
* THETA (K) * MEAN $=256.95$
* PRESSURE (MB) * MEAN $=866.7$ STD DEV $=8.0$ MAX $=883.9$ AT 1150 GMT ON DAY 27 MIN $=844.9$ AT 1440 GMT ON DAY 16
* WINDS (M/S) * MEAN $=10.9$ STD DEV $=7.8$ RESULTANT $=4.4$ FROM 180 . CONSTANCY $=0.40$ MAX $=37.8$ FROM 187. AT 420 GMT DAY 3
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $2.8 \%$

WIND SPEED (M/S): 0-2 $2-4$ 4-6 6-8 8 - $8-10$ 10-12 $12-14$ 14-16 $16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 1+$

WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllllll}\text { PERCENT } & 17 & 3 & 1 & 3 & 3 & 3 & 3 & 7 & 18 & 30 & 5 & 0 & 0 & 0 & 3 & 2\end{array}$

JUN 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}0 & 874 & -32 & 15 & 226\end{array}$ $\begin{array}{lllll}03 & 875 & -31 & 17 & 196\end{array}$ $\begin{array}{llllll}06 & 876 & -31 & 13 & 178\end{array}$ $\begin{array}{lllll}09 & 876 & -29 & 15 & 192\end{array}$ $\begin{array}{lllll}12 & 876 & -29 & 17 & 188\end{array}$ $\begin{array}{lllll}15 & 877 & -29 & 12 & 208\end{array}$ $\begin{array}{lllll}18 & 877 & -28 & 10 & 208\end{array}$
$\begin{array}{lllll}21 & 877 & -30 & 14 & 187\end{array}$ DAY 8
$\begin{array}{lllll}00 & 866 & -20 & 16 & 195\end{array}$
$\begin{array}{llllll}03 & 868 & -21 & 26 & 199\end{array}$
$\begin{array}{lllll}06 & 871 & -21 & 20 & 157\end{array}$
$\begin{array}{lllll}09 & 871 & -21 & 17 & 188\end{array}$
$\begin{array}{llllll}12 & 870 & -23 & 19 & 360\end{array}$
$\begin{array}{lllll}15 & 871 & -25 & 16 & 4\end{array}$
$\begin{array}{lllll}18 & 871 & -25 & 12 & 194\end{array}$
$\begin{array}{lllll}21 & 870 & -25 & 15 & 189\end{array}$ DAY 15
$\begin{array}{lllll}00 & 871 & -24 & 9 & 344\end{array}$
$\begin{array}{lllll}03 & 873 & -26 & 7 & 7\end{array}$
$\begin{array}{lllll}06 & 875 & -26 & 2 & 5\end{array}$
$\begin{array}{llll}09 & 878 & -27 & 2360\end{array}$
$\begin{array}{lllll}2 & 881 & -28 & 1 & 1\end{array}$
$\begin{array}{lllll}15 & 882 & -29 & 2 & 18\end{array}$
$\begin{array}{lllll}18 & 883 & -29 & 7 & 54\end{array}$
$\begin{array}{llll}21 & 882 & -29 & 10 \\ 60\end{array}$ DAY 22
$\begin{array}{lllll}00 & 898 & -18 & 13 & 306\end{array}$
$\begin{array}{lllll}03 & 899 & -21 & 19 & 205\end{array}$
$\begin{array}{llllll}06 & 899 & -21 & 23 & 223\end{array}$
$\begin{array}{lllll}09 & 899 & -17 & 19 & 215\end{array}$
$\begin{array}{llllll}12 & 899 & -20 & 23 & 175\end{array}$
$\begin{array}{lllll}15 & 900 & -22 & 15 & 147\end{array}$
$\begin{array}{llllll}18 & 899 & -17 & 13 & 108\end{array}$
$\begin{array}{llll}21 & 898 & -1615153\end{array}$ DAY 29
$\begin{array}{lllll}00 & 892 & -33 & 3 & 161\end{array}$
$\begin{array}{lllll}03 & 891 & -33 & 4 & 161\end{array}$
$\begin{array}{lllll}06 & 891 & -33 & 2 & 215\end{array}$
$\begin{array}{lllll}09 & 891 & -35 & 2 & 360\end{array}$
$\begin{array}{lllll}12 & 890 & -35 & 2 & 1\end{array}$
$\begin{array}{lllll}15 & 889 & -37 & 5 & 360\end{array}$
$\begin{array}{lllll}18 & 888 & -35 & 3 & 1\end{array}$
$\begin{array}{lllll}21 & 886 & -34 & 2 & 30\end{array}$

| PP | tT | VV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 879 | -30 | 7 | 192 | 884 | -28 | 3 | 118 |
| 879 | -30 | 5 | 150 | 884 | -24 | 5 | 73 |
| 879 | -30 | 3 | 144 | 885 | -27 | 2 | 358 |
| 880 | -30 | 3 | 158 | 886 | -26 | 6 | 320 |
| 881 | -29 | 3 | 157 | 887 | -25 | 5 | 303 |
| 882 | -27 | 7 | 213 | 888 | -31 | 4 | 130 |
| 882 | -29 | 6 | 170 | 889 | -32 | 4 | 126 |
| 883 | -27 | 5 | 184 | 889 | -25 | 5 | 102 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 867 | -25 | 17 | 198 | 860 | -24 | 2 | 229 |
| 865 | -25 | 22 | 84 | 862 | -25 | 6 | 194 |
| 864 | -23 | 8 | 195 | 863 | -23 | 7 | 203 |
| 862 | -22 | 6 | 205 | 865 | -23 | 10 | 278 |
| 859 | -22 | 5 | 317 | 867 | -24 | 15 | 191 |
| 856 | -24 | 8 | 358 | 869 | -28 | 12 | 360 |
| 856 | -23 | 5 | 315 | 871 | -27 | 11 | 233 |
| 857 | -23 | 5 | 317 | 872 | -26 | 11 | 209 |
|  | DAY | 16 |  |  | DAY | 17 |  |
| 882 | -29 | 15 | 91 | 875 | -35 | 15 | 185 |
| 881 | -32 | 12 | 99 | 874 | -32 | 11 | 210 |
| 879 | -33 | 10 | 203 | 872 | -29 | 5 | 209 |
| 878 | -31 | 9 | 196 | 871 | -30 | 3 | 25 |
| 877 | -32 | 6 | 85 | 871 | -33 | 3 | 360 |
|  |  |  |  | 871 | -33 | 7 | 233 |
| 873 | -36 | 7 | 7 | 872 | -32 | 10 | 188 |
| 875 | -36 | 5 | 2 | 873 | -30 | 12 | 199 |
|  | DAY | 23 |  |  | DAY | 24 |  |
| 896 | -13 | 9 | 185 | 886 | -24 | 4 | 7 |
| 895 | -14 | 7 | 172 | 886 | -24 | 2 | 36 |
| 892 | -13 | 1 | 175 | 887 | -27 | 6 | 2 |
| 889 | -14 | 6 | 316 | 888 | -27 | 6 | 360 |
| 887 | -15 | 8 | 351 | 890 | -27 | 6 | 360 |
| 885 | -17 | 11 | 360 | 890 | -26 | 11 | 1 |
| 885 | -21 | 5 | 16 | 891 | -29 | 11 | 360 |
| 886 | -24 | 3 | 122 | 891 | -28 | 10 | 360 | DAY 30

$\begin{array}{llll}885 & -35 & 3 & 39\end{array}$
$\begin{array}{llll}883 & -34 & 7 & 12\end{array}$
$\begin{array}{llll}882 & -34 & 6 & 12\end{array}$
$\begin{array}{llll}881 & -35 & 3 & 360\end{array}$
$\begin{array}{llll}880 & -35 & 3 & 85\end{array}$
$\begin{array}{llll}880 & -34 & 2 & 300\end{array}$
$\begin{array}{llll}879 & -33 & 1 & 21\end{array}$
$\begin{array}{llll}878 & -35 \quad 2 \quad 7\end{array}$

## PP TTV DD

 DAY 4888-29 6319
887-28 7322
886-28 4360
884-29 1116
$\begin{array}{llll}883 & -30 & 3 & 45\end{array}$
$\begin{array}{llll}881 & -25 & 4 & 49\end{array}$
$\begin{array}{llll}879 & -27 & 3113\end{array}$
879 -25 4116 DAY 11
871-23 13194
871-23 12223
$870-2314119$
$870-21 \quad 10210$
869-24 8158
869-24 12185
867-24 15212
866-22 16195 DAY 18
871-28-9213
$869-2718198$
$\begin{array}{llll}872 & -34 & 17 & 113\end{array}$
874-28 21209
877-31 21199
$875-26 \quad 27161$
874-26 26195
$871-2430181$ DAY 25
$\begin{array}{llll}891 & -24 & 13 & 84\end{array}$
$\begin{array}{llll}890 & -25 & 14 & 2\end{array}$
$\begin{array}{llll}889 & -25 & 7 & 9\end{array}$
$\begin{array}{llll}890 & -28 & 6 & 11\end{array}$
$\begin{array}{lll}890 & -26 & 1 \\ 292\end{array}$
$\begin{array}{llll}890 & -27 & 0 & 0\end{array}$
$\begin{array}{lll}891 & -30 & 4 \\ 360\end{array}$
$892-30 \quad 5360$

PP TT WV DD PP TT WV DD DAY 5
$\begin{array}{llll}878 & -24 & 2 & 57\end{array}$
$\begin{array}{llll}877 & -27 & 28\end{array}$
$\begin{array}{llll}875 & -24 & 5 & 4\end{array}$
$\begin{array}{llll}875 & -26 & 1 & 37\end{array}$
$\begin{array}{llll}874 & -23 & 2 & 23\end{array}$
$\begin{array}{llll}874 & -23 & 3 & 29\end{array}$
874-25 252
873-29 6360 DAY 12
867-22 11208
867-22 12172
867-22 13198
$\begin{array}{lllll}868 & -21 & 10 & 248\end{array}$
869 -20 13201
$870-2013209$
870 - 2111187
871 -20 10215 DAY 19
874-25 34210
$875-2630 \quad 196$
$881-2434196$
886-22 27188
$889-2024202$
891-19 $20 \quad 180$
892-21 $16 \quad 32$
890-21 13-175 DAY 26
893-32 $3 \quad 360$
892-33 3360
$\begin{array}{llll}892 & -29 & 35\end{array}$
$\begin{array}{llll}891 & -30 & 3 & 360\end{array}$
$\begin{array}{llll}891 & -31 & 3 & 360\end{array}$
$890-32 \quad 1360$
$\begin{array}{llll}890 & -31 & 2 & 9\end{array}$
890-32 0

DAY 6
873-32 7360
$\begin{array}{llll}873 & -31 & 4360\end{array}$
$\begin{array}{llll}873 & -29 & 3 & 106\end{array}$
$\begin{array}{llll}874 & -30 & 2160\end{array}$
$\begin{array}{llll}875 & -28 & 4 & 212\end{array}$
$\begin{array}{llll}875 & -28 & 7 & 195\end{array}$
$\begin{array}{llll}874 & -29 & 17 & 187\end{array}$
874-28 13188
DAY 13
870-18 10189
869-18 $\quad 6 \quad 185$
867-17 5199
$\begin{array}{llll}866 & -17 & 4 & 168\end{array}$
865-17 $\quad 2357$
864-18 2338
863-17 0
865-19 3142 DAY 20
$890-23 \quad 6360$
890 -22 $10 \quad 360$
$891-2414 \quad 8$
893-24 19165
894-22 21196
896-22 $19 \quad 57$
897-19 19192
$896-1714182$ DAY 27
890-32 1360
$\begin{array}{llll}890 & -34 & 3 & 2\end{array}$
$\begin{array}{llll}890 & -34 & 2 & 360\end{array}$
$\begin{array}{llll}891 & -33 & 2 & 18\end{array}$
$\begin{array}{llll}892 & -33 & 2 & 360\end{array}$
893-33 2360
$\begin{array}{llll}894 & -33 & 8 & 360\end{array}$
$894 \quad-33 \quad 4 \quad 360$

PP TT W DD DAY 7
873-26 14195
$870-2312215$
868-20 13189
867-17 9208
866-16 4196
865-17 1
$867-20 \quad 9223$
866 -20 14206 DAY 14
866-21 7188
$\begin{array}{llll}866 & -21 & 11 & 194\end{array}$
$866-21 \quad 12187$
$866-2013195$
$868-207146$
869-20 0
$869-20 \quad 5334$
870 -23 8343 DAY 21
895-15 18209
892-16 17191
892-21 $11 \quad 32$
$\begin{array}{lll}891 & -21 & 16 \quad 217\end{array}$
892-22 17206
$893-2116120$
$894-2016198$
895-19 14199 DAY 28
$\begin{array}{llll}894 & -33 & 6 & 215\end{array}$
$\begin{array}{llll}893 & -32 & 5 & 109\end{array}$
$\begin{array}{llll}893 & -32 & 3 & 84\end{array}$
$\begin{array}{llll}892 & -32 & 2 & 90\end{array}$
$\begin{array}{llll}892 & -35 & 4 & 1\end{array}$
$\begin{array}{llll}892 & -36 & 4 & 360\end{array}$
$\begin{array}{llll}892 & -35 & 3 & 9\end{array}$
892-34 $\quad 2 \quad 11$

* TEMPERATURE ( $C$ ) * MEAN $=-25.9$ STD DEV $=5.5$ MAX $=-12.4$ AT 730 GMT ON DAY 23 MIN $=-38.5$ AT 1900 GMT ON DAY 16
* theta (K) * MEAN $=256.50$
* PRESSURE (MB) * MEAN $=879.8$ STD DEV $=10.6$ MAX $=900.3$ at 1430 GMT ON DAY 22 MIN $=855.0$ at 1640 GMT ON DAY 9
* WINDS (M/S) * MEAN $=9.0$ STD DEV $=6.8$ RESULTANT $=3.8$ fROM 190. CONSTANCY $=0.42 \mathrm{MAX}=35.9$ FROM 215. AT 130 GMT DAY 19
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$


WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllllllllllll}\text { PERCENT } & 25 & 6 & 3 & 2 & 3 & 5 & 2 & 6 & 13 & 23 & 6 & 0 & 0 & 1 & 3 & 2\end{array}$


## STATION : 8988 MINNA BLUFF

LAT : 78.55S LONG : 166.66E ELEVATION: 920 M


| JAN | 97 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HR | PP | TT | vV | DD | PP |  | VV | DD | PP |  | $v$ | DD |
|  |  | DAY | 1 | 1 |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 654 | -25 | 5 | 171 | 652 | -26 | 1 | 258 | 652 | -31 | 3 | 149 |
| 03 | 654 | -24 | 5 | 144 | 651 | -23 | 1 | 260 | 652 | -27 | 3 | 88 |
| 06 | 654 | -23 | 4 | 123 | 651 | -23 | 2 | 154 | 653 | -26 | 4 | 102 |
| 09 | 654 | -24 | 3 | 3143 | 651 | -24 | 3 | 150 | 653 | -25 | 3 | 97 |
| 12 | 653 | -25 | 1 | 171 | 651 | -27 | 21 | 175 | 653 | -29 | 2 | 170 |
| 15 | 653 | -28 | 1 | 174 | 651 | -35 | 21 | 170 | 653 | -35 | 3 | 132 |
| 18 | 653 | -30 | 2 | 215 | 651 | -36 | 21 | 177 | 653 | -37 | 3 | 120 |
| 2 | 652 | -29 | 2 | 232 | 651 | -35 | 2 | 158 | 653 | -35 | 3 | 120 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 653 | -27 | 5 | 192 | 652 | -28 | 4 | 184 | 653 | -27 | 5 | 216 |
| 03 | 653 | -24 | 6 | 6188 | 652 | -24 | 61 | 178 | 653 | -25 | 3 | 164 |
| 06 | 653 | -22 | 6 | 6177 | 652 | -23 | 5 | 185 | 653 | -25 | 5 | 195 |
| 09 | 653 | -22 | 6 | 171 | 652 | -23 | 5 | 192 | 654 | -24 | 3 | 196 |
| 12 | 653 | -25 | 4 | 184 | 653 | -26 | 3 | 206 | 654 | -28 |  | 208 |
| 15 | 653 | -31 | 4 | 184 | 652 | -32 | 3 | 205 | 654 | -33 | 2 | 223 |
| 18 | 653 | -33 | 4 | 192 | 653 | -35 | 4 | 199 | 654 | -36 | 2 | 196 |
| 21 | 653 | -32 | 5 | 185 | 653 | -29 | 2 | 191 | 655 | -31 | 1 | 156 |
|  | DAY 15 |  |  |  | DAY 16 |  |  |  | DAY 17 |  |  |  |
| 00 | 659 | -28 | 1 | 333 | 658 | -31 | 3 | 37 | 662 | -26 | 4 | 360 |
| 03 | 659 | -24 | 0 | O | 658 | -26 | 4 | 14 | 662 | -23 | 4 | 2 |
| 06 | 659 | -20 | 0 | 0 | 658 | -24 | 4 | 35 | 662 | -22 | 3 | 354 |
| 09 | 659 | -24 | 2 | 71 | 659 | -24 | 4 | 28 | 662 | -21 | 2 | 7 |
| 12 | 658 | -31 | 2 | 88 | 659 | -29 | 3 | 35 | 662 | -26 | 3 | 4 |
| 15 | 658 | -36 | 3 | 375 | 659 | -33 | 4 | 21 | 663 | -32 | 3 | 341 |
| 18 | 658 | -37 | 3 | 30 | 660 | -31 | 3 | 360 | 663 | -33 | 3 | 330 |
| 21 | 658 | -36 | 4 | 47 | 661 | -30 | 23 | 360 | 663 | -31 |  | 326 |
|  | DAY 22 |  |  |  | DAY |  |  |  | DAY 24 |  |  |  |
| 00 | 655 | -34 | 3 | 3137 | 656 | -30 | 0 | 0 | 658 | -30 | 0 | 0 |
| 03 | 656 | -31 | 3 | 3126 | 657 | -30 | 2 | 171 | 657 | -29 |  | 253 |
| 06 | 656 | -28 | 2 | 108 | 657 | -26 | 0 | 0 | 657 | -25 |  | 264 |
| 09 | 656 | -28 | 1 | 1143 | 657 | -25 | 0 | 0 | 657 | -25 |  | 268 |
| 12 | 656 | -31 | 0 | 0 | 657 | -31 | 2 | 156 | 657 | -32 |  | 265 |
| 15 | 656 | -34 | 0 | 0 | 657 | -33 | 0 | 0 | 657 | -39 |  | 286 |
| 18 | 656 | -37 | 1 | 149 | 657 | -34 | 0 | 0 | 657 | -42 | 2 | 292 |
| 21 | 656 | -35 | 0 | 0 | 657 | -30 | 0 | 0 | 656 | -39 | 3 | 262 |
|  | DAY 29 |  |  |  | day 30 |  |  |  | DAY 31 |  |  |  |
| 00 | 656 | -34 |  | 289 | 659 | -34 |  | 315 | 657 | -28 | 6 | 64 |
| 03 | 656 | -31 | 3 | 3277 | 659 | -32 | 3 | 303 | 657 | -26 | 6 | 29 |
| 06 | 656 | -30 | 5 | 5289 | 659 | -27 | 2 | 323 | 657 | -24 | 4 | 360 |
| 09 | 657 | -30 | 3 | 3288 | 660 | -24 | 1 | 1 | 657 | -20 | 1 | 337 |
| 12 | 657 | -35 |  | 298 | 659 | -32 | 2 | 39 | 658 | -28 |  | 333 |
| 15 | 657 | -42 |  | 306 | 659 | -39 | 3 | 32 | 659 | -34 |  | 333 |
| 18 | 658 | -44 |  | 313 | 658 | -39 | 2 | 82 | 660 | -35 |  | 334 |
| 21 | 658 |  |  | 305 |  |  | 3 | 88 |  |  |  |  |



MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-30.1$ STD DEV $=5.4$ MAX $=-19.0$ AT 540 GMT ON DAY 15 MIN $=-44.5$ AT 1640 GMT ON DAY 26
* THETA (K) * MEAN $=274.26$
* PRESSURE (MB) * MEAN $=655.7$ STD DEV $=3.0$ MAX $=663.1$ AT 250 GMT ON DAY 18 MIN $=650.9$ AT 940 GMT ON DAY 2 * WINDS (M/S) * MEAN $=2.8$ STD DEV $=1.5$ RESULTANT $=0.8$ FROM 189. CONSTANCY $=0.30$ MAX $=7.5$ FROM 71 . AT 550 GMT DAY 4 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \% \quad$ WINDS: $0.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-12$ 12-14 $14-16 \quad 16-18 \quad 18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 $\begin{array}{lllllllllllllllllllllll}\text { PERCENT } & 5 & 3 & 3 & 3 & 4 & 4 & 12 & 5 & 10 & 11 & 7 & 8 & 12 & 7 & 3 & 3\end{array}$



PP TT VV DD DAY 7
660-37 2208
660 $-32 \quad 3219$
$660-29 \quad 3220$
659-29 2232
659-36 2236
659-40 3248
659-40 3261
$659-40 \quad 3271$
DAY 14
648-41 4220
647-38 5216
646-38 4209
$\begin{array}{llll}646 & -39 & 3 & 191\end{array}$
$\begin{array}{llll}645 & -44 & 2195\end{array}$
$646-49 \quad 4 \quad 171$
$\begin{array}{llll}646 & -51 & 3 & 168\end{array}$
646 -50 2175
DAY 21
$\begin{array}{llll}649 & -44 & 3 & 111\end{array}$
$649-40 \quad 3112$
649-39 3122
649-41 2132
649-46 2129
649-46 2123
649-45 2164
648-43 2191
DAY 28
$\begin{array}{llll}650 & -37 & 1 & 8\end{array}$
649-39 2358
648-39 $\quad 3 \quad 348$
647-39 1258
$\begin{array}{llll}646 & -44 & 3 & 309\end{array}$
$\begin{array}{llll}645 & -52 & 3 & 286\end{array}$
$644-56 \quad 2288$
644-56 2275

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-41.0$ STD DEV $=7.6$ MAX $=-22.8$ AT 830 GMT ON DAY 1 MIN $=-57.2$ AT 1850 GMT ON DAY 25
* THETA (K) * MEAN $=262.38$
* PRESSURE (MB) * MEAN $=652.2$ STD DEV $=5.6$ MAX $=662.3$ AT 1320 GMT ON DAY 1 MIN $=643.4$ AT 2330 GMT ON DAY 28
* WINDS (M/S) * MEAN $=3.1 \mathrm{STD}$ DEV $=1.5$ RESULTANT $=1.7$ FROM 218. CONSTANCY $=0.54$ MAX $=9.8$ FROM 302 . AT 520 GMT DAY 2
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.2 \%$ PRESSURE: $2.2 \%$ WINDS: $2.2 \%$
 PERCENT: $\quad 16$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllll} & 1 & 3 & 1 & 0 & 1 & 7 & 4 & 5 & 14 & 16 & 18 & 8 & 9 & 7 & 5 & 0\end{array}$

MAR 97

HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 643 & -51 & 2\end{array} 258$
$\begin{array}{lllll}03 & 644 & -49 & 3 & 267\end{array}$
$\begin{array}{lllll}06 & 644 & -46 & 4 & 271\end{array}$

| 09 | 645 | -49 | 3 |
| :--- | :--- | :--- | :--- |


| 12 | 647 | -55 | 3 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}15 & 648 & -58 & 3 & 309\end{array}$

| 18 | 650 | -58 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}21 & 652 & -55 & 285\end{array}$ DAY 8
00
$\begin{array}{lllll}03 & 648 & -45 & 4 & 217\end{array}$
$\begin{array}{llll}06 & 647 & -43 & 4 \\ 229\end{array}$
$9 \quad 647$-45 4243
$\begin{array}{llll}2 & 646 & -51 & 4 \\ 248\end{array}$
$\begin{array}{lllll}5 & 645 & -54 & 4 & 239\end{array}$
$\begin{array}{llll}8 & 644 & -54 & 4 \\ 225\end{array}$
$\begin{array}{llll}21 & 644 & -54 & 3\end{array}$ DAY 15
$\begin{array}{lllll}00 & 643 & -47 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 643 & -48 & 1 & 136\end{array}$
$\begin{array}{lllll}06 & 643 & -47 & 0 & 0\end{array}$
$\begin{array}{lllll}9 & 643 & -51 & 1 & 106\end{array}$
$\begin{array}{lllll}12 & 644 & -47 & 2 & 71\end{array}$
$\begin{array}{lllll}15 & 644 & -49 & 2 & 40\end{array}$
$\begin{array}{lllll}18 & 644 & -51 & 1 & 70\end{array}$
$\begin{array}{lllll}21 & 644 & -51 & 1 & 18\end{array}$
DAY 22
$\begin{array}{lllll}00 & 640 & -60 & 7 & 194\end{array}$
$\begin{array}{lllll}03 & 640 & -58 & 6 & 196\end{array}$
$\begin{array}{lllll}06 & 640 & -57 & 6 & 202\end{array}$
$\begin{array}{lllll}09 & 640 & -59 & 5 & 198\end{array}$
$\begin{array}{lllll}12 & 640 & -61 & 5 & 191\end{array}$
$\begin{array}{lllll}15 & 640 & -63 & 5 & 192\end{array}$
$\begin{array}{lllll}18 & 640 & -63 & 4 & 194\end{array}$
$21 \quad 640$-64 4194 DAY 29
$\begin{array}{lllll}00 & 640 & -60 & 8 & 234\end{array}$
$\begin{array}{lllll}03 & 641 & -57 & 11 & 225\end{array}$
$\begin{array}{llll}06 & 641 & -55 & 10 \\ 229\end{array}$
$09 \quad 641-57 \quad 8233$
$\begin{array}{lllll}12 & 640 & -56 & 10 & 233\end{array}$
$\begin{array}{llll}15 & 639 & -56 & 10 \\ 227\end{array}$
$\begin{array}{lllll}18 & 638 & -56 & 11 & 222\end{array}$
$\begin{array}{llll}21 & 637 & -55 & 12 \quad 213\end{array}$

> PP TT VV DD day 3
> $\begin{array}{llll}660-42 \quad 4 \quad 7\end{array}$
> 660-37 0 0
> $\begin{array}{llll}660 & -37 & 2 & 32\end{array}$
> $659-37292$
> $659-38 \quad 277$
> 658-42 1 90
> $\begin{array}{rrrr}657 & -43 & 0 & 0 \\ 656 & -45 & 3 & 126\end{array}$ DAY 10
> 644-53 2196
> $\begin{array}{llll}644-47 & 2199\end{array}$
> $645-421230$
> $\begin{array}{lllll}645 & -47 & 2184\end{array}$
> $\begin{array}{lllll}646 & -48 & 3 & 187\end{array}$
> $646-48 \quad 2202$
> $\begin{array}{lll}646 & -44 & 2251\end{array}$
> DAY 17
> $645-574230$
> $\begin{array}{llll}645 & -55 & 4247\end{array}$
> $645-534247$
> 646-55 4250
> $646-59 \quad 4241$
> $\begin{array}{llll}647-59 & 4217\end{array}$
> $\begin{array}{llll}647 & -59 & 3 & 233\end{array}$
> $648-594233$
> DAY 24
> $\begin{array}{llll}643 & -64 & 3 & 16\end{array}$
> $\begin{array}{llll}644 & -60 & 3 & 18\end{array}$
> $\begin{array}{llll}644 & -57 & 4 & 22 \\ 644 & -59 & 3 & 32\end{array}$
> $645-59436$
> $\begin{array}{lllll}645 & -56 & 4 & 32\end{array}$
> $\begin{array}{llll}645 & -57 & 4 & 33 \\ 645 & -56 & 4 & 36\end{array}$ DAY 31
> 638 -57 9185
> $639-55 \quad 7189$
> $\begin{array}{llll}639 & -54 & 6 & 196 \\ 640 & -57 & 7 & 198\end{array}$
> $644-64 \quad 0 \quad 0$

PP TT WV DD PP IT VV DD DAY 4
656-42 3123
$655-393132$
$654-372126$
$653-403140$
652-41 2161
$651-413154$
$651-44 \quad 2147$
650-46 2154

## DAY 11

646-47 2284
$646-421305$
$646-42 \quad 2305$
$646-442300$
647-52 2286
$646-55 \quad 2277$
$646-55 \quad 3265$
$646-554258$
DAY 18
$649-572248$
$\begin{array}{lll}650-54 & 2250\end{array}$
$651-52 \quad 3247$
652-57 2255
652-61 2271
653-60 3271
653-58 3265
$654-593262$
DAY 25
$\begin{array}{llll}645 & -53 & 5 & 26\end{array}$
646-50 742
$646-47750$
$646-46 \quad 8 \quad 52$
$645-46956$
$645-47954$
$645-50770$
$644-52652$

DAY 5
$649-432199$
$649-4200$
649-39 2209
648 -39 1264
648 -50 0
647-53 3243
$647-56 \quad 3229$
$646-57 \quad 2243$ DAY 12
$646-503243$
$645-463225$
$644-44<213$
$\begin{array}{llll}644-48 & 3199\end{array}$
$643-523164$
$643-51 \quad 2154$
$642-522149$
$642-491136$ DAY 19
$654-542255$
$\begin{array}{llll}655 & -50 & 3 & 268\end{array}$
$655-47 \quad 3281$
$654-48 \quad 5260$
$654-55 \quad 3268$
$653-57 \quad 3286$
$653-56 \quad 3246$
$651-56 \quad 2251$

## DAY 26

$\begin{array}{llll}645 & -52 & 6 & 40\end{array}$
$\begin{array}{llll}645 & -49 & 6 & 30\end{array}$
$\begin{array}{llll}645 & -48 & 4 & 23\end{array}$
$\begin{array}{llll}645 & -52 & 4 & 18\end{array}$
645-55 $4 \quad 25$
$\begin{array}{llll}644 & -51 & 6 & 29\end{array}$
$643-48722$
$641-50712$

PP TT VV DD DAY 6
$\begin{array}{llll}646 & -53 & 3 & 247\end{array}$
646-49 4251
$646-474244$
$\begin{array}{ccc}646 & -50 \quad 5 \quad 239\end{array}$
$646-56 \quad 5255$
$646-567222$
$\begin{array}{llll}646 & -57 & 7212\end{array}$
$\begin{array}{lll}647-57 & 8 & 208\end{array}$
DAY 13
642-48 2118
$641-442104$
$641-43299$
$641-45281$
$641-50 \quad 3 \quad 59$
$641-51 \quad 3 \quad 82$
$641-46 \quad 2 \quad 59$
641 -46 252
DAY 20
$651-533201$
$\begin{array}{llll}650 & -50 & 3 & 187\end{array}$
$648-49 \quad 4201$
$648-543206$
$\begin{array}{lll}647-56 & 3 & 208\end{array}$
$\begin{array}{llll}647 & -58 & 3 & 208\end{array}$
$\begin{array}{llll}646 & -57 & 3 & 208\end{array}$
$646-57 \quad 4241$
DAY 27
640-50 8360
$639-51 \quad 6341$
$\begin{array}{llll}638 & -52 & 8329\end{array}$
$637-56 \quad 8324$
$\begin{array}{lll}637-61 & 8293\end{array}$
$\begin{array}{llll}637-67 & 8 & 286\end{array}$
$\begin{array}{llll}638 & -66 & 8 & 271\end{array}$
$639-66 \quad 6261$

PP TTV DD DAY 7
$648-549199$
$649-51 \quad 8212$
$649-478215$
$650-467217$
$650-50 \quad 8222$
$650-517223$
$649-537222$
$649-54 \quad 6216$ DAY 14
641-42 0 0
$641-3700$
$641-391337$
$641-40 \quad 0 \quad 0$
$641-491262$
$642-49 \quad 2210$
$642-5700$
$642-55 \quad 3177$
DAY 21
$645-55 \quad 3244$
644-52 4229
$\begin{array}{rrrr}644 & -53 & 3 & 240\end{array}$
$643-554229$
$642-57 \quad 4220$
$641-59 \quad 5206$
$640-596199$
$640-606196$
DAY 28
641-65 5271
$641-64 \quad 5288$
$641-63 \quad 6267$
$641-64 \quad 6262$
$641-65 \quad 6251$
$641-657253$
$\begin{array}{llll}640 & -65 & 8246\end{array}$
$640-64 \quad 8241$

* temperature (C) * mean $=-52.2$ std dev $=7.0$ max $=-35.8$ at 610 Gmt on day 3 min $=-67.2$ at 2110 Gmt on day 23
* theta (K) * MEAN $=250.44$
* PRESSURE (MB) * MEAN $=645.4$ StD dev $=5.2$ max $=659.7$ at 240 GMt on day 3 min $=636.2$ at 220 gmt on day 30
* Winds (m/s) * mean $=3.9$ std dev $=2.5$ resultant $=1.7$ from 227. constancy $=0.45$ max $=13.2$ from 210. at 2120 Gmt day 29
* missing 3-hourly observations * temperature: $0.0 \%$ pressure: $0.0 \%$ winds: $0.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18 -20 $20-25$ 25-30 $30-35$ 35-40 $40-45$ 45-50 $50-55 \quad 55-60 \quad 60+$ PERCENT:
$\begin{array}{llllllllllllllll}19 & 44 & 15 & 12 & 7 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECtION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 1 & 8 & 6 & 4 & 3 & 2 & 3 & 3 & 6 & 18 & 14 & 17 & 9 & 4 & 2 & 1\end{array}$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-62.2$ STD DEV $=4.8$ MAX $=-49.9$ AT 630 GMT ON DAY 8 MIN $=-70.9$ AT 2000 GMT ON DAY 15
* THETA (K) * MEAN $=238.76$
* PRESSURE (MB) * MEAN $=649.1 \mathrm{STD} D E V=5.9 \mathrm{MAX}=660.0$ AT 1230 GMT ON DAY 19 MIN $=636.9$ AT 0 GMT ON DAY 12
* WINDS (M/S) * MEAN $=3.4 \mathrm{STD}$ DEV $=1.4$ RESULTANT $=1.4$ FROM 225 . CONSTANCY $=0.42 \mathrm{MAX}=9.5$ FROM 182 . AT 1240 GMT DAY 17
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrrrrr} \\ \text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & + \\ \text { PERCENT: } & 14 & 59 & 22 & 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$
$\begin{array}{lllllllllllllllllllll}\text { PERCENT } & 3 & 4 & 4 & 2 & 0 & 6 & 3 & 3 & 11 & 24 & 8 & 5 & 11 & 9 & 3 & 3\end{array}$


PP TT VV DD PP TT VV DD

$$
\text { DAY } 5
$$

$\begin{array}{llll}644 & -64 \quad 4 & 217\end{array}$
$\begin{array}{llll}643 & -66 & 4 & 223\end{array}$
$643-66 \quad 3234$
$\begin{array}{llll}643 & -66 & 3 & 223\end{array}$
$\begin{array}{llll}642 & -66 & 3 & 226\end{array}$
$\begin{array}{llll}642 & -66 & 3 & 236\end{array}$
$\begin{array}{llll}642 & -65 & 4 & 227\end{array}$
641-64 5222 DAY 12
$\begin{array}{lll}636 & -74 & 3209\end{array}$
$636-73 \quad 3206$
$636-72 \quad 4215$
636-72 2225
636-72 2230
$636-71 \quad 2225$
$635-69 \quad 3237$
$635-70 \quad 2232$ DAY 19
$\begin{array}{lll}648 & -68 \quad 3206\end{array}$
$\begin{array}{lll}648 & -65 & 217\end{array}$
$\begin{array}{llll}648 & -69 & 325\end{array}$
$647-70 \quad 1261$
$646-70 \quad 1253$
$\begin{array}{llll}645 & -69 & 3 & 255\end{array}$
$\begin{array}{llll}644 & -69 & 3 & 230\end{array}$
$\begin{array}{llll}644 & -68 & 3 & 208\end{array}$
DAY 26
657-51 2357
657-51 3345
657-53 2348
658-49 0 0
658-49 2360
658-51 314
658-51 0 0
$659-50 \quad 1354$

PP TT VV DD PP TT VV DD DAY 6
$\begin{array}{lll}640 & -62 \quad 5 & 230\end{array}$
$\begin{array}{llll}640 & -62 & 6 & 213\end{array}$
$\begin{array}{llll}640 & -62 & 8 & 208\end{array}$
$\begin{array}{llll}640 & -62 & 8 & 194\end{array}$
641-58 10175
$\begin{array}{llll}642 & -60 & 9 & 182\end{array}$
$\begin{array}{llll}644 & -60 & 8 & 189\end{array}$
$\begin{array}{llll}644 & -61 & 7 & 184\end{array}$ DAY 13
635 -70 2234
$\begin{array}{lll}634 & -69 & 241\end{array}$
$634-72 \quad 3225$
$635-76 \quad 1212$
$636-76 \quad 2212$
$637-77 \quad 2209$
$\begin{array}{llll}638 & -77 & 3 & 201\end{array}$
$639-77 \quad 4191$ DAY 20
$\begin{array}{llll}644 & -66 & 5 & 198\end{array}$ 644-62 4178 $\begin{array}{llll}646 & -61 & 4 & 161\end{array}$ $\begin{array}{llll}647 & -62 \quad 5151\end{array}$ $\begin{array}{llll}649 & -61 & 6 & 140\end{array}$ $\begin{array}{llll}651 & -64 & 3 & 147\end{array}$ $\begin{array}{llll}652 & -65 & 3 & 160\end{array}$ $\begin{array}{llll}653 & -66 & 3 & 170\end{array}$ DAY 27
659-48 0 659-43 1105 659-46 $1 \begin{array}{llll} & -46\end{array}$ $\begin{array}{llll}659 & -45 & 1 & 77\end{array}$ 659-46 $\quad 1 \quad 82$ $\begin{array}{llll}659 & -46 & 3 & 67\end{array}$ 658-47 246
$\begin{array}{llll}658 & -47 & 2 & 33\end{array}$

DAY 7
$\begin{array}{llll}646 & -61 & 7184\end{array}$
$\begin{array}{llll}647 & -63 & 6 & 199\end{array}$
$\begin{array}{llll}647 & -64 & 6 & 188\end{array}$
$\begin{array}{llll}648 & -65 & 5 & 191\end{array}$
$\begin{array}{llll}648 & -65 & 4 & 185\end{array}$
$\begin{array}{llll}648 & -66 & 4 & 187\end{array}$
$\begin{array}{llll}648 & -67 & 5 & 192\end{array}$
648-67 4177
DAY 14
641-76 4188
$\begin{array}{lllll}642 & -77 & 3 & 192\end{array}$
$\begin{array}{llll}643 & -77 & 3 & 191\end{array}$
$\begin{array}{llll}644 & -77 & 5 & 194\end{array}$
645-76 4 206
$645-76 \quad 4209$
$645-76 \quad 3227$
644-74 5227
DAY 21
$\begin{array}{llll}654 & -66 & 4 & 187\end{array}$
$\begin{array}{llll}654 & -66 & 3 & 178\end{array}$
$\begin{array}{llll}654 & -66 & 3 & 178\end{array}$
$\begin{array}{llll}655 & -65 & 3 & 178\end{array}$
$\begin{array}{llll}655 & -66 \quad 2 & 201\end{array}$
$\begin{array}{llll}655 & -66 & 2189\end{array}$
$\begin{array}{llll}655 & -60 & 3192\end{array}$
655-55 2216
DAY 28
658-47 $5 \quad 22$
657-45 $\quad 5 \quad 9$
656-47 $4 \quad 2$
$655-46 \quad 3 \quad 355$
654-41 4352
652-39 4360
$651-40 \quad 6360$
$649-42 \quad 5 \quad 360$

MONTHLY SUMMARY

* TEMPERATURE $(C) *$ mean $=-64.0$ Std dev $=8.5$ MAX $=-38.5$ at 1550 GMt ON DAY 28 MIN $=-77.4$ AT 230 GMt ON DAY 14
* Theta (K) * MEAN $=237.12$
* PRESSURE (MB) * MEAN $=644.8$ STD DEV $=6.3$ MAX $=659.4$ AT 200 GMT ON DAY 27 MIN $=634.0$ AT 240 GMT ON DAY 13
* WINDS (M/S) * MEAN $=3.2$ STD DEV $=1.9$ RESULTANT $=2.1$ FROM 203. CONSTANCY $=0.64$ MAX $=11.5$ FROM 206. AT 440 GMT DAY 15
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 5 & 1 & 1 & 1 & 0 & 0 & 4 & 8 & 21 & 17 & 20 & 7 & 5 & 3 & 3 & 3\end{array}$


* temperature ( $C$ ) * mean $=-60.3$ Std dev $=6.4$ max $=-41.2$ at 1750 GMT ON day 4 min $=-73.5$ at 1130 gmt on day 11
* theta (K) * MEAN $=240.04$
* PRESSURE (MB) * MEAN $=656.5$ STD DEV $=8.0$ MAX $=671.8$ at 320 GMT ON DAY 20 MIN $=640.9$ AT 720 GMT ON DAY 10
* WINDS (M/S) * MEAN $=2.4$ STD DEV $=1.7$ RESULTANT $=1.5 \mathrm{FROM} 220$. CONSTANCY $=0.63 \mathrm{mAX}=10.5$ FROM 226. AT 1220 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$
 $\begin{array}{lllllllllllllllll}\text { PERCENT: } & 45 & 40 & 12 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT
$\begin{array}{lrrrrrrrrrrrrrrr}\text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ 0 & 0 & 0 & 0 & 1 & 3 & 3 & 7 & 10 & 27 & 15 & 6 & 11 & 7 & 6 & 3\end{array}$

JUL 97
HR PP TT WV DD DAY 1

$\begin{array}{llll}00 & 647 & -65 & 1313\end{array}$ $\begin{array}{lllll}03 & 646 & -64 & 1 & 327\end{array}$ $\begin{array}{lllll}06 & 645 & -63 & 0 & 0\end{array}$ $\begin{array}{lllll}09 & 644 & -65 & 1 & 303\end{array}$ | 2 | 643 | -66 | 1 |
| :--- | :--- | :--- | :--- | $\begin{array}{lllll}5 & 643 & -67 & 0 & 0\end{array}$ $\begin{array}{lllll}8 & 643 & -68 & 1 & 260\end{array}$

$\begin{array}{llll}21 & 643 & -68 & 1 \\ 257\end{array}$ DAY 8

| 00 | 648 | -66 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 647 & -68 & 1 & 278\end{array}$

| 06 | 647 | -67 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}09 & 646 & -65 & 2305\end{array}$
$\begin{array}{lllll}12 & 645 & -61 & 1 & 305\end{array}$
$\begin{array}{lllll}15 & 644 & -63 & 3 & 298\end{array}$
$\begin{array}{lllll}18 & 643 & -61 & 285\end{array}$
$\begin{array}{lllll}21 & 643 & -60 & 3 & 293\end{array}$ DAY 15
$\begin{array}{llll}00 & 646 & -63 & 4 \\ 240\end{array}$
$\begin{array}{llll}03 & 645 & -66 & 2254\end{array}$
$\begin{array}{lllll}06 & 644 & -67 & 4 & 248\end{array}$
$\begin{array}{lllll}09 & 644 & -66 & 4 & 257\end{array}$
$\begin{array}{lllll}12 & 643 & -67 & 5 & 241\end{array}$
$\begin{array}{lllll}15 & 642 & -67 & 5 & 226\end{array}$
$\begin{array}{lllll}18 & 643 & -68 & 5 & 217\end{array}$
$\begin{array}{llll}21 & 644 & -66 & 5 \\ 210\end{array}$
DAY 22
$\begin{array}{lllll}00 & 636 & -60 & 2 & 45\end{array}$
$\begin{array}{lllll}03 & 636 & -63 & 1 & 39\end{array}$
$\begin{array}{lllll}06 & 635 & -59 & 0 & 0\end{array}$
$\begin{array}{lllll}09 & 635 & -63 & 1 & 115\end{array}$
$\begin{array}{lllll}12 & 634 & -61 & 2 & 106\end{array}$
$\begin{array}{lllll}15 & 633 & -59 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 632 & -59 & 0 & 0\end{array}$
$\begin{array}{llll}21 & 631 & -66 \quad 1 & 129\end{array}$
DAY 29
$\begin{array}{lllll}00 & 645 & -49 & 4 & 88\end{array}$
$\begin{array}{lllll}03 & 642 & -45 & 8 & 80\end{array}$
$\begin{array}{lllll}06 & 637 & -41 & 10 & 61\end{array}$
$\begin{array}{lllll}09 & 634 & -43 & 8 & 15\end{array}$
$\begin{array}{lllll}12 & 635 & -46 & 8 & 345\end{array}$
$\begin{array}{llll}15 & 635 & -50 & 9 \\ 333\end{array}$
$\begin{array}{lllll}18 & 635 & -52 & 9 & 320\end{array}$
$\begin{array}{llll}21 & 637 & -53 & 10 \\ 295\end{array}$

PP TT VV DD PP TT WV DD DAY 2
643-68 0
$\begin{array}{llll}643 & -68 & 1 & 262\end{array}$
$\begin{array}{lll}644 & -67 & 1 \\ 261\end{array}$
$\begin{array}{llll}644 & -69 & 1 & 264\end{array}$

| 645 | -68 | 1 |
| :--- | :--- | :--- | 248


| 646 | -68 | 1 |
| :--- | :--- | :--- | 230


| 647 | -69 | 1 |
| :--- | :--- | :--- |

648-68 1229
DAY 9
642-60 1274
$\begin{array}{llll}642 & -54 & 267\end{array}$
$\begin{array}{llll}641 & -53 & 0 & 0\end{array}$
642-56 2291
642-58 0 $\begin{array}{llllllll}642 & -54 & 0 & 0 & 634 & -67 & 1 & 303\end{array}$ $\begin{array}{llllllll}641 & -49 & 0 & 0 & 633 & -68 & 1 & 289\end{array}$ 641 -51 2341 DAY 16
$\begin{array}{lll}644 & -67 & 512\end{array}$ $\begin{array}{llll}645 & -67 & 4 & 210\end{array}$ $\begin{array}{lll}645 & -69 & 513\end{array}$ $\begin{array}{llll}646 & -69 & 5 & 209\end{array}$ $647-70 \quad 4 \quad 210$ 647-69 6 206 $\begin{array}{llll}648 & -69 & 5 & 216\end{array}$ 648 -69 6202 DAY 23
631-70 0 630-70 0 0 630-73 0 0 $\begin{array}{llll}630 & -74 & 0 & 0\end{array}$ $629-73 \quad 3180$ $\begin{array}{llll}630 & -76 & 2174\end{array}$ $630-75 \quad 3178$ $630-77 \quad 2174$ DAY 30
639-56 8291 $\begin{array}{llll}641 & -57 & 8 & 313\end{array}$ $\begin{array}{llll}640 & -54 & 8 & 313\end{array}$ $640-55 \quad 7307$ $640-58 \quad 8303$ $640-60 \quad 8 \quad 302$ $640-63 \quad 6 \quad 293$ $641-67 \quad 5 \quad 293$

DAY 3
$\begin{array}{lll}649 & -67 & 1 \\ 241\end{array}$
$\begin{array}{lll}649 & -66 & 1240\end{array}$
$\begin{array}{llll}650 & -64 & 0 & 0\end{array}$
650-67 0
$\begin{array}{llll}651 & -67 & 1 & 254\end{array}$
$\begin{array}{llll}651 & -65 & 1 & 267\end{array}$
652-64 1257
652-62 2264 DAY 10
640-53 2327
$639-57 \quad 2360$
$\begin{array}{llll}638 & -58 & 3 & 340\end{array}$
$\begin{array}{lll}637 & -63 & 2343\end{array}$
636-62 2312
$633-68 \quad 1289$
$\begin{array}{llll}632 & -68 & 274\end{array}$ DAY 17
648 -69 5199
$647-70 \quad 6199$
$647-706196$
646 -71 5195
$\begin{array}{llll}646 & -71 & 5 & 188\end{array}$
645-72 4177
645-72 4170
645-72 4175 DAY 24
$\begin{array}{llll}630 & -78 \quad 4 & 178\end{array}$
$630-77 \quad 3178$
631 -76 4175
$\begin{array}{llll}631 & -75 & 5 & 165\end{array}$
$\begin{array}{llll}632 & -76 & 5 & 168\end{array}$
$633-76 \quad 5168$
$\begin{array}{llll}634 & -76 & 5 & 165\end{array}$
$634-765163$ DAY 31
641-69 5306
$641-69 \quad 5295$
641-68 4298
640-69 3298
$640-69 \quad 3313$
$639-693322$
$639-69 \quad 2315$


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-65.9$ STD DEV $=6.6$ MAX $=-41.2$ AT 610 GMT ON DAY 29 MIN $=-77.9$ AT 2310 GMT ON DAY 23
* theta (K) * mean $=235.34$
* PRESSURE (MB) * MEAN $=641.1$ STD DEV $=5.8$ MAX $=652.8$ AT 2030 GMT ON DAY 3 MIN $=629.1$ AT 1940 GMT ON DAY 23
* WINDS (M/S) * MEAN $=2.7$ STD DEV $=2.1$ RESULTANT $=0.9$ FROM 237. CONSTANCY $=0.34$ MAX $=11.8$ FROM 316. AT 1900 GMT DAY 29
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT:
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE $\quad$ SE SSE $S$ SSW $\quad$ SW WSW $W$ WNW NW NNW
PERCENT

$$
\begin{array}{lllllll}
2 & 1 & 3 & 4 & 6 & 4 & 3
\end{array}
$$

| HR | PP | Tt | vv | DD | PP |  | vV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |
| 00 | 639 | -56 | 0 | 0 | 637 | -71 | 2 | 174 | 641 | -70 | 3 | 313 |
| 03 | 638 | -57 | 4 | 125 | 637 | -71 | 0 | 0 | 641 | -69 | 2 | 327 |
| 06 | 637 | -63 | 3 | 132 | 638 | -73 | 2 | 291 | 640 | -67 | 3 | 336 |
| 09 | 636 | -63 | 3 | 130 | 638 | -73 | 2 | 292 | 639 | -55 | 3 | 291 |
| 12 | 636 | -62 | 3 | 123 | 639 | -73 | 2 | 277 | 637 | -52 | 4 | 312 |
| 15 | 636 | -66 | 2 | 154 | 640 | -71 | 3 | 272 | 636 | -52 | 2 | 284 |
| 18 | 636 | -69 | 2 | 154 | 640 | -72 | 3 | 293 | 635 | -58 | 2 | 277 |
| 21 | 637 | -71 | 3 | 160 | 641 | -70 | 3 | 296 | 634 | -65 | 3 | 282 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 652 | -65 | 4 | 295 | 641 | -73 |  | 209 | 633 | -53 | 8 | 171 |
| 03 | 651 | -63 | 5 | 299 | 639 | -72 | 3 | 220 | 633 | -52 | 6 | 182 |
| 06 | 649 | -59 | 7 | 295 | 638 | -71 | 5 | 223 | 634 | -56 | 5 | 177 |
| 09 | 649 | -62 | 6 | 286 | 636 | -70 |  | 208 | 635 | -60 | 5 | 167 |
| 12 | 647 | -65 | 4 | 291 | 634 | -68 | 7 | 184 | 637 | -65 | 3 | 150 |
| 15 | 645 | -72 | 4 | 274 | 634 | -66 | 8 | 178 | 641 | -66 | 3 | 119 |
| 18 | 644 | -74 | 2 | 234 | 633 | -60 | 7 | 177 | 645 | -67 | 3 | 160 |
| 21 | 642 | -75 | 2 | 230 | 633 | -58 | 8 | 171 | 648 | -69 | 4 | 174 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 652 | -69 | 3 | 170 | 647 | -70 |  | 212 | 643 | -67 | 2 | 206 |
| 03 | 652 | -68 | 2 | 206 | 646 | -71 |  | 213 | 643 | -67 | 2 | 209 |
| 06 | 651 | -67 | 3 | 208 | 645 | -73 |  | 227 | 642 | -68 | 2 | 246 |
| 09 | 651 | -66 | 4 | 212 | 644 | -74 |  | 217 | 641 | -67 | 3 | 244 |
| 12 | 651 | -66 | 6 | 203 | 643 | -74 | 5 | 192 | 641 | -67 | 3 | 246 |
| 15 | 650 | -67 | 6 | 208 | 643 | -68 | 6 | 184 | 641 | -66 | 2 | 254 |
| 18 | 649 | -66 | 4 | 203 | 643 | -63 | 6 | 184 | 640 | -68 | 2 | 275 |
| 21 | 648 | -68 | 4 | 220 | 643 | -66 | 4 | 198 | 640 | -70 | 2 | 312 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 646 | -71 | 5 | 205 | 651 | -65 | 5 | 203 | 654 | -61 | 3 | 267 |
| 03 | 646 | . 69 | 4 | 202 | 652 | -64 | 4 | 212 | 653 | -61 | 3 | 282 |
| 06 | 648 | -69 | 5 | 198 | 653 | -54 | 4 | 202 | 652 | -61 | 4 | 285 |
| 09 | 649 | -69 | 5 | 202 | 653 | -65 | 4 | 199 | 650 | -60 | 6 | 282 |
| 12 | 649 | -68 | 4 | 194 | 654 | -67 | 3 | 208 | 649 | -61 | 4 | 293 |
| 15 | 650 | -66 | 3 | 201 | 654 | -68 | 2 | 212 | 649 | -61 | 4 | 286 |
| 18 | 650 | -64 | 4 | 205 | 654 | -68 | 2 | 217 | 648 | -67 | 2 | 227 |
| 21 | 651 | -63 | 5 | 198 | 654 | -59 |  | 232 | 648 | -71 | 2 | 292 |
|  |  |  | 29 |  |  |  | 30 |  |  |  | 31 |  |
| 00 | 638 | -69 | 2 | 153 | 642 | -67 | 2 | 127 | 648 | -55 | 0 | 0 |
| 03 | 638 | -66 | 3 | 137 | 643 | -62 |  | 122 | 648 | -54 | 0 | 0 |
| 06 | 639 | -63 | 2 | 127 | 644 | -61 |  | 139 | 648 | -52 | 1 | 302 |
| 09 | 640 | -68 | 1 | 135 | 644 | -59 | 3 | 139 | 649 | -57 | 3 | 317 |
| 12 | 640 | -68 | 1 | 144 | 645 | -61 | 3 | 153 | 650 | -63 | 3 | 299 |
| 15 | 641 | -65 | 2 | 112 | 646 | -56 | 2 | 157 | 650 | -69 | 3 | 312 |
| 18 | 641 | -66 | 1 | 127 | 647 | -57 | 2 | 158 | 651 | -72 |  | 293 |
| 21 | 642 | -68 | 2 | 139 | 647 | -55 |  | 171 | 652 | -69 |  | 305 |



MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-66.9$ STD DEV $=7.4$ MAX $=-46.4$ AT 2020 GMT ON DAY 12 MIN $=-80.1$ at 850 GMT ON DAY 27
* THETA (K) * MEAN = 233.96
* PRESSURE (MB) * MEAN $=643.9$ STD DEV $=5.7$ MAX $=654.4$ AT 1610 GMT ON DAY 23 MIN $=633.0$ AT 2040 GMT ON DAY 9
* WINDS (M/S) * MEAN $=3.5$ STD DEV $=2.6$ RESULTANT $=2.3$ FROM 209. CONSTANCY $=0.66$ MAX $=18.2$ FROM 182 . AT 1430 GMT DAY 12 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: WIND direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW percent

SEP 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 652 & -67 & 3 & 282\end{array}$
$\begin{array}{lllll}3 & 653 & -64 & 4 & 291\end{array}$
$6 \quad 654-64 \quad 4 \quad 293$
$\begin{array}{lllll}9 & 655 & -63 & 3 & 277\end{array}$
$\begin{array}{lllll}2 & 656 & -65 & 3 & 271\end{array}$
$\begin{array}{lllll}15 & 656 & -66 & 3 & 299\end{array}$
$\begin{array}{lllll}18 & 656 & -67 & 2 & 305\end{array}$
$\begin{array}{llll}21 & 655 & -63 & 1 \\ 286\end{array}$ DAY 8
$\begin{array}{lllll}00 & 641 & -69 & 3 & 99\end{array}$
$\begin{array}{lllll}03 & 640 & -62 & 3 & 118\end{array}$
$\begin{array}{lllll}06 & 639 & -59 & 5 & 120\end{array}$
$\begin{array}{lllll}09 & 637 & -57 & 6 & 123\end{array}$
$\begin{array}{lllll}12 & 636 & -57 & 7 & 122\end{array}$
$\begin{array}{lllll}15 & 634 & -60 & 4 & 132\end{array}$
$\begin{array}{lllll}18 & 632 & -60 & 7 & 133\end{array}$
$\begin{array}{lllll}21 & 629 & -59 & 6 & 143\end{array}$ DAY 15
$\begin{array}{lllll}00 & 644 & -60 & 3 & 265\end{array}$

| 03 | 643 | -58 | 2 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}06 & 642 & -57 & 4\end{array} 275$
$\begin{array}{lllll}09 & 642 & -58 & 4 & 272\end{array}$
$\begin{array}{lllll}12 & 641 & -62 & 4 & 291\end{array}$
$\begin{array}{lllll}15 & 640 & -64 & 3 & 282\end{array}$
$\begin{array}{lllll}18 & 640 & -66 & 3 & 292\end{array}$
$\begin{array}{lllll}21 & 640 & -68 & 2 & 288\end{array}$ DAY 22
$\begin{array}{lllll}00 & 652 & -65 \quad 2 & 216\end{array}$
$\begin{array}{llll}03 & 653 & -62 & 2\end{array} 222$
$\begin{array}{llll}06 & 653 & -60 & 219\end{array}$
$\begin{array}{lllll}09 & 653 & -65 & 2 & 203\end{array}$
$\begin{array}{lllll}12 & 653 & -69 & 3 & 189\end{array}$
$\begin{array}{lllll}15 & 653 & -71 & 3 & 189\end{array}$
$\begin{array}{lllll}18 & 653 & -72 & 2 & 196\end{array}$
$\begin{array}{lllll}21 & 653 & -73 & 3 & 187\end{array}$
DAY 29
$\begin{array}{lllll}00 & 655 & -49 & 3 & 50\end{array}$
$\begin{array}{lllll}03 & 655 & -44 & 2 & 45\end{array}$
$\begin{array}{lllll}06 & 654 & -42 & 2 & 45\end{array}$
$\begin{array}{lllll}09 & 654 & -42 & 3 & 30\end{array}$
$\begin{array}{lllll}12 & 653 & -42 & 4 & 22\end{array}$
$\begin{array}{lllll}15 & 652 & -43 & 4 & 9\end{array}$
$\begin{array}{lllll}18 & 651 & -47 & 2 & 39\end{array}$
$\begin{array}{lllll}21 & 651 & -47 & 3 & 12\end{array}$

PP TT VV DD PP TT VV DD DAY 2
653-54 0 0
653-49 3320
654-55 2285
656-62 2244
$\begin{array}{llll}658 & -61 & 3 & 244\end{array}$
$\begin{array}{llll}660 & -62 & 3 & 257\end{array}$
$\begin{array}{llll}662 & -62 & 1 & 264\end{array}$
$664-58 \quad 2278$
DAY 9
627-59 6151
$\begin{array}{llll}626 & -59 & 7 & 168\end{array}$
$\begin{array}{llll}625 & -60 & 7 & 185\end{array}$
625-63 9187
$\begin{array}{llll}625 & -63 & 9 & 187\end{array}$
$\begin{array}{llll}625 & -65 & 7 & 191\end{array}$
$625-65 \quad 7189$
626 -66 6185 DAY 16
640-66 2284
$\begin{array}{llll}640 & -64 & 1 & 274\end{array}$
$\begin{array}{llll}640 & -63 & 1 & 237\end{array}$
$640-70 \quad 2220$
$\begin{array}{lll}641 & -74 & 1210\end{array}$
641 -75 0
$\begin{array}{lll}641 & -74 & 2 \\ 239\end{array}$
$\begin{array}{lll}641 & -73 & 3 \\ 244\end{array}$
DAY 23
652-68 2203
653-63 0
652-59 2229
651-66 4209
649-68 4213
$\begin{array}{llll}648 & -68 & 1 & 243\end{array}$
$\begin{array}{llll}645 & -69 & 3 & 222\end{array}$
$\begin{array}{llll}644 & -67 & 5 & 194\end{array}$ DAY 30
650-42 236
$\begin{array}{llll}649 & -40 & 2 & 25\end{array}$
$\begin{array}{llll}647 & -39 & 3 & 21\end{array}$
$\begin{array}{llll}645 & -43 & 3 & 15\end{array}$
$\begin{array}{llll}644 & -49 & 2 & 22\end{array}$
642-51 230
$\begin{array}{llll}641 & -54 & 2 & 37\end{array}$
$640-49 \quad 3111$

| PP | TT | VV | DD |
| ---: | ---: | ---: | ---: |
| DAY | 3 |  |  |
| 666 | -59 | 1 | 284 |
| 666 | -51 | 2 | 286 |
| 667 | -50 | 1 | 360 |
| 667 | -49 | 3 | 9 |
| 665 | -45 | 5 | 25 |
| 663 | -43 | 6 | 28 |
| 660 | -40 | 6 | 14 |
| 657 | -39 | 6 | 5 |

DAY 10
626-67 6195
$\begin{array}{lll}627 & -65 \quad 8 & 172\end{array}$
$\begin{array}{llll}628 & -65 & 6 & 184\end{array}$
629-68 6191
$\begin{array}{llll}630 & -70 & 5 & 187\end{array}$
$630-717189$
$631-717198$
631 -71 7196 DAY 17
$\begin{array}{lll}641 & -67 & 2327\end{array}$
$\begin{array}{llll}641 & -65 & 2 & 275\end{array}$
$\begin{array}{lll}640 & -61 & 1289\end{array}$
$\begin{array}{llll}640 & -67 & 2 & 271\end{array}$
$\begin{array}{llll}640 & -74 & 0 & 0\end{array}$
640-75 0
641-77 1300
642-76 0 0

## DAY 24

$\begin{array}{llll}644 & -63 & 2 & 184\end{array}$
644-59 2168
$\begin{array}{lll}645 & -60 & 3 \\ 156\end{array}$
$\begin{array}{llll}646 & -63 & 2 & 136\end{array}$
$\begin{array}{llll}647 & -67 & 3 & 143\end{array}$
$\begin{array}{llll}649 & -66 & 3 & 133\end{array}$
$\begin{array}{lllll}650 & -65 & 4 & 153\end{array}$
$\begin{array}{llll}651 & -62 \quad 4147\end{array}$

$$
\begin{array}{llll}
\hline \text { PP } & \text { TT } & \text { VV } & \text { DD } \\
& \text { DAY } & 4 & \\
654 & -37 & 9 & 2 \\
651 & -35 & 9 & 1 \\
646 & -35 & 8 & 1 \\
641 & -39 & 6 & 9 \\
636 & -42 & 5 & 12 \\
632 & -48 & 3 & 360 \\
633 & -47 & 7 & 319 \\
633 & -56 & 7 & 309 \\
& \text { DAY } & 11 & \\
631 & -68 & 8 & 192 \\
631 & -66 & 8 & 187 \\
631 & -66 & 9 & 184 \\
632 & -67 & 10 & 180 \\
632 & -70 & 10 & 185 \\
631 & -70 & 10 & 177 \\
632 & -69 & 11 & 170 \\
633 & -68 & 9 & 164 \\
& \text { DAY } & 18 & \\
643 & -72 & 1 & 223 \\
644 & -68 & 0 & 0 \\
645 & -65 & 2 & 201 \\
645 & -69 & 1 & 199 \\
646 & -75 & 3 & 185 \\
646 & -76 & 1 & 185 \\
646 & -77 & 2 & 181 \\
646 & -78 & 3 & 180 \\
& \text { DAY } & 25 & \\
652 & -57 & 5 & 158 \\
653 & -54 & 4 & 161 \\
653 & -49 & 5 & 171 \\
652 & -45 & 9 & 175 \\
652 & -42 & 10 & 164 \\
652 & -40 & 11 & 149 \\
653 & -41 & 9 & 149 \\
653 & -38 & 8 & 150
\end{array}
$$

PP TT VV DD DAY 5
$634-58 \quad 5302$
$\begin{array}{llll}635 & -59 & 3 & 281\end{array}$
637-59 5234
638-65 4234
$\begin{array}{llll}640 & -68 & 3 & 217\end{array}$
$\begin{array}{llll}640 & -69 & 2 & 212\end{array}$
640-72 1209
$640-731203$

## DAY 12

$\begin{array}{llll}635 & -67 & 9 & 158\end{array}$
$\begin{array}{llll}637 & -65 & 7 & 151\end{array}$
$\begin{array}{llll}639 & -64 & 7 & 156\end{array}$
$\begin{array}{llll}640 & -65 & 7 & 160\end{array}$
$\begin{array}{llll}641 & -65 & 7 & 158\end{array}$
$\begin{array}{llll}643 & -65 & 7 & 149\end{array}$
$644-64 \quad 6140$
646-62 4154 DAY 19
647-74 4177
$\begin{array}{lllll}648 & -71 & 3 & 178\end{array}$
$\begin{array}{llll}648 & -67 & 1 & 156\end{array}$
$\begin{array}{llll}649 & -71 & 1 & 187\end{array}$
649-72 2208
650-75 0 0
$650-76 \quad 2223$
$650-76 \quad 2.210$ DAY 26
$\begin{array}{cccc}653 & -38 & 8153\end{array}$
654-36 10156
$\begin{array}{llll}654 & -39 & 7 & 154\end{array}$
$\begin{array}{llll}654 & -39 & 7 & 146\end{array}$
$\begin{array}{llll}655 & -44 & 7 & 146\end{array}$
655-45 8144
$655-44 \quad 6 \quad 158$
655-43 6149

PP TT WV DD DAY 6
641-71 2172
640-69 1174
$\begin{array}{llll}640 & -67 & 2175\end{array}$
$\begin{array}{lll}641-73 & 2174\end{array}$
$641-73 \quad 3172$
$641-74 \quad 2161$
$\begin{array}{lll}641 & -74 & 3172\end{array}$
$\begin{array}{llll}641 & -75 & 3178\end{array}$ DAY 13
648-62 1143
649-61 1153
650-60 0 0
650-62 0
$\begin{array}{lll}651 & -60 & 3 \\ 265\end{array}$
$\begin{array}{lll}651 & -67 & 268\end{array}$
$\begin{array}{lll}651 & -68 & 247\end{array}$
$\begin{array}{lll}651 & -67 \quad 2260\end{array}$ DAY 20
650-70 2205
$\begin{array}{lll}650 & -67 & 2\end{array} 217$
$\begin{array}{llll}650 & -64 & 3 & 217\end{array}$
$\begin{array}{lll}650 & -67 & 2229\end{array}$
650-70 3223
$650-71 \quad 2241$
650-71 2220
650 -70 1250 DAY 27
656-42 7156
656-43 6153
657-45 7163
657-47 5161
656-52 6161
657-54 7157
657-57 5153
657-57-5146

PP TTV DD DAY 7
642-73 3171
642-70 2178
642-67 0
$\begin{array}{lll}642 & -74 & 2161\end{array}$
642-74 0
642-74 2136
642-74 2125
641-72 3102
DAY 14
651-65 1253
650-63 2264
649-61 3270
$\begin{array}{llll}649 & -64 & 2 & 272\end{array}$
648-67 2279
$\begin{array}{lll}646 & -66 & 272\end{array}$
$\begin{array}{llll}646 & -64 & 2 & 267\end{array}$
$\begin{array}{llll}645 & -63 & 360\end{array}$
DAY 21
$\begin{array}{lll}650 & -66 & 1257\end{array}$
$\begin{array}{lll}649 & -64 & 251\end{array}$
649-59 2236
649-63 2209
$\begin{array}{lll}649 & -67 & 216\end{array}$
$\begin{array}{llll}650 & -67 & 3 & 219\end{array}$
$\begin{array}{lll}650 & -69 & 2223\end{array}$
$\begin{array}{lll}651 & -69 \quad 3208\end{array}$
DAY 28
657-53 5133
657-49 6 118
657-47 3116
$\begin{array}{llll}657 & -53 & 3 & 135\end{array}$
$\begin{array}{llll}657 & -58 & 3 & 122\end{array}$
657-57 2108
$\begin{array}{llll}656 & -56 & 1 & 101\end{array}$
$\begin{array}{llll}656 & -55 & 2 & 87\end{array}$

* temperature ( $C$ ) * mean $=-60.9$ Std dev $=10.6$ max $=-34.6$ at 400 GMT ON day 4 MIN $=-78.9$ AT 2140 GMT ON DAY 18
* theta (K) * mean $=240.48$
* PRESSURE (MB) * MEAN $=646.0$ STD DEV $=9.1$ MAX $=667.0$ AT 410 GMT ON DAY 3 MIN $=624.7$ AT 940 GMT ON DAY 9
* WINDS (M/S) * MEAN $=3.7 \mathrm{STD}$ DEV $=2.5$ RESULTANT $=1.8$ fROM 178 . CONSTANCY $=0.50 \mathrm{MAX}=13.0 \mathrm{FROM} 172$. AT 1030 GMT DAY 25
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
4 & 5 & 3 & 0 & 1 & 4 & 7 & 16 & 17 & 9 & 9 & 6 & 10 & 7 & 2 & 0
\end{array}
$$

| HR | PP |  | vV | DD | PP | TT | vv | DD | PP |  | W | DD | PP |  | w | DD | PP |  |  | DD | PP |  |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 640 | -52 | 3 | 129 | 647 | -60 | 3 | 163 | 652 | -63 | 5 | 182 | 650 | -59 | 5 | 165 | 648 | -56 | 6 | 180 | 646 | -56 | 9 | 189 | 651 | -57 | 6 | 151 |
| 03 | 639 | -49 | 3 | 139 | 648 | -56 | 5 | 161 | 652 | -59 | 6 | 187 | 649 | -56 | 5 | 172 | 648 | -53 | 5 | 189 | 646 | -54 | 9 | 184 | 652 | -54 | 6 | 163 |
| 06 | 640 | -50 | 5 | 151 | 649 | -55 | 3 | 171 | 652 | -56 | 5 | 182 | 649 | -52 | 4 | 184 | 648 | -52 | 6 | 185 | 646 | -52 | 8 | 189 | 653 | -53 | 7 | 160 |
| 09 | 641 | -55 | 6 | 156 | 650 | -58 | 2 | 185 | 652 | -59 | 5 | 189 | 648 | -54 | 5 | 188 | 648 | -54 | 5 | 192 | 646 | -53 | 8 | 188 | 654 | -53 | 7 | 165 |
| 12 | 642 | -58 | 6 | 153 | 651 | -63 | 4 | 181 | 651 | -63 | 5 | 194 | 648 | -55 | 6 | 180 | 647 | -58 | 6 | 201 | 647 | -55 | 8 | 184 | 655 | -53 | 7 | 163 |
| 15 | 644 | -60 | 7 | 160 | 651 | -65 | 3 | 185 | 650 | -62 | 5 | 189 | 648 | -53 | 5 | 177 | 647 | -59 | 6 | 198 | 647 | -57 | 7 | 171 | 655 | -55 | 7 | 160 |
| 18 | 645 | -62 | 4 | 154 | 651 | -66 | 4 | 178 | 650 | -62 | 6 | 174 | 648 | -55 | 7 | 181 | 646 | -60 | 7 | 195 | 648 | -60 | 7 | 164 | 656 | -56 | 6 | 150 |
| 21 | 646 | -64 | 4 | 163 | 652 | -66 | 4 | 189 | 650 | -63 | 5 | 181 | 648 | -58 | 6 | 174 | 646 | -60 | 7 | 199 | 649 | -60 | 6 | 156 | 657 | -54 | 7 | 160 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 658 | -51 | 6 | 144 | 663 | -53 | 6 | 168 | 656 | -52 | 9 | 175 | 650 | -50 | 10 | 161 | 648 | -54 | 8 | 156 | 651 | -47 | 6 | 102 | 650 | -50 | 4 | 135 |
| 03 | 659 | -48 | 6 | 151 | 663 | -49 | 5 | 177 | 655 | -50 | 10 | 189 | 649 | -47 | 11 | 172 | 647 | -51 | 8 | 160 | 651 | -42 | 6 | 101 | 650 | -47 | 6 | 136 |
| 06 | 660 | -46 | 8 | 160 | 662 | -48 | 3 | 182 | 654 | -47 | 10 | 185 | 649 | -46 | 10 | 167 | 647 | -50 | 9 | 149 | 651 | -41 | 6 | 101 | 650 | -45 | 5 | 144 |
| 09 | 660 | -48 | 8 | 158 | 661 | -50 | 5 | 194 | 653 | -47 | 10 | 189 | 649 | -48 | 10 | 172 | 648 | -50 | 8 | 139 | 651 | -45 | 5 | 112 | 650 | -47 | 5 | 146 |
| 12 | 661 | -51 | 7 | 157 | 661 | -55 | 7 | 189 | 652 | -50 | 8 | 184 | 649 | -51 | 9 | 167 | 648 | -50 | 7 | 122 | 651 | -51 | 5 | 123 | 649 | -53 | 5 | 151 |
| 15 | 662 | -52 | 6 | 153 | 659 | -57 | 4 | 184 | 651 | -50 | 11 | 184 | 648 | -53 | 9 | 167 | 649 | -56 | 6 | 122 | 651 | -55 | 4 | 127 | 649 | 55 | 6 | 143 |
| 18 | 662 | -54 | 5 | 161 | 658 | -56 | 6 | 182 | 650 | -52 | 10 | 178 | 648 | -55 | 8 | 167 | 649 | -56 | 5 | 106 | 651 | -55 | 3 | 123 | 649 | -56 | 5 | 151 |
| 21 | 663 | -56 | 5 | 163 | 657 | -56 | 7 | 178 | 650 | -51 | 10 | 175 | 648 | -55 | 7 | 161 | 650 | -54 | 5 | 106 | 651 | -53 | 4 | 125 | 649 | 55 | 5 | 156 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 648 | -50 | 6 | 144 | 644 | -48 | 5 | 129 | 642 | -54 | 5 | 157 | 640 | -51 | 0 | 0 | 638 | -56 |  | 284 | 642 | -56 | 2 | 219 | 641 | -52 | 3 | 264 |
| 03 | 648 | -45 | 8 | 146 | 644 | -44 | 5 | 123 | 641 | -50 | 5 | 154 | 640 | -49 | 1 | 303 | 638 | -53 |  | 291 | 642 | -52 | 2 | 230 | 641 | -46 | $2$ | 254 |
| 06 | 647 | -42 | 7 | 137 | 643 | -42 | 5 | 130 | 641 | -48 | 5 | 164 | 639 | -46 | 1 | 293 | 639 | -52 | 3 | 284 | 642 | -48 | 2 | 272 | 640 | -45 | 3 | 268 |
| 09 | 646 | -45 | 6 | 135 | 643 | -45 | 5 | 139 | 641 | -51 | 4 | 164 | 639 | -51 | 2 | 315 | 639 | -54 | 1 | 270 | 642 | -51 | 2 | 246 | 640 | -48 | 3 | 244 |
| 12 | 646 | -50 | 5 | 133 | 643 | -50 | 6 | 144 | 641 | -58 | 4 | 165 | 638 | -61 | 2 | 281 | 640 | -61 | 2 | 240 | 642 | -58 | 2 | 243 | 639 | -55 |  | 222 |
| 15 | 645 | -52 | 4 | 133 | 642 | -55 | 4 | 149 | 641 | -61 | 3 | 164 | 638 | -64 | 2 | 260 | 641 | -65 | 3 | 215 | 642 | -63 | 2 | 239 | 639 | -60 | 4 | 227 |
| 18 | 645 | -52 | 4 | 133 | 642 | -57 | 5 | 157 | 640 | -64 | 2 | 177 | 638 | -65 | 2 | 289 | 642 | -66 | 3 | 205 | 642 | -64 | 2 | 250 | 638 | -63 | 3 | 236 |
| 21 | 644 | -51 | 4 | 133 | 642 | -59 | 4 | 160 | 640 | -59 | 2 | 187 | 638 | -64 | 2 | 293 | 641 | -63 | 4 | 198 | 642 | -58 | 2 | 279 | 638 | -59 | 3 | 216 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 638 | -54 | 5 | 216 | 644 | -53 | 3 | 195 | 650 | -50 | 2 | 240 | 650 | -50 | 2 | 210 | 647 | -47 | 3 | 168 | 645 | -51 | 2 | 184 | 645 | -43 | 0 | 0 |
| 03 | 638 | -49 | 5 | 210 | 645 | -47 | 2 | 177 | 650 | -47 | 1 | 230 | 650 | -46 | 3 | 191 | 646 | -44 | 2 | 177 | 645 | -46 | 2 | 175 | 645 | -39 | 0 | 0 |
| 06 | 638 | -47 | 3 | 201 | 647 | -45 | 2 | 262 | 650 | -45 | 2 | 257 | 649 | -44 | 3 | 187 | 645 | -41 | 2 | 196 | 645 | -42 | 1 | 171 | 645 | -36 | 0 | 0 |
| 09 | 639 | - 50 | 3 | 222 | 648 | -46 | 1 | 213 | 651 | -48 | 2 | 225 | 649 | -49 | 4 | 165 | 644 | -44 | 2 | 227 | 646 | -45 | 1 | 171 | 644 | -43 | 2 | 77 |
| 12 | 640 | -57 | 3 | 208 | 649 | -56 | 2 | 217 | 650 | -56 | 2 | 217 | 649 | -54 | 4 | 164 | 644 | -52 | 3 | 212 | 646 | -51 | 2 | 184 | 644 | -51 | 3 | 111 |
| 15 | 641 | -63 | 2 | 192 | 649 | -63 | 3 | 215 | 650 | -59 | 3 | 206 | 648 | -59 | 4 | 157 | 644 | -58 | 3 | 196 | 646 | -55 | 3 | 156 | 644 | -54 | 3 | 90 |
| 18 | 642 | -65 | 2 | 217 | 649 | -64 |  | 215 | 650 | -61 | 2 | 217 | 648 | -60 | 2 | 165 | 644 | -60 | 2 | 191 | 646 | -52 | 1 | 120 | 643 | -56 | 2 | 80 |
| 21 | 643 | -61 | 2 | 189 | 649 | -58 |  | 217 | 650 | -57 | 2 | 195 | 647 | -55 | 3 | 163 | 644 | -55 | 1 | 181 | 645 | -48 | 0 | 0 | 643 | -54 | 2 | 95 |
|  |  | DAY | 29 |  |  |  | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 642 | -45 | 2 | 91 | 636 | -41 | 2 | 23 | 637 | -41 | 2 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 642 | -40 | 4 | 82 | 636 | -38 | 3 | 40 | 637 | -35 | 2 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 641 | -38 | 5 | 99 | 636 | -37 | 3 | 33 | 636 | -35 | 4 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 640 | -40 | 3 | 87 | 636 | -39 | 2 | 18 | 636 | -35 | 3 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 639 | -47 | 3 | 97 | 636 | -47 | 3 | 34 | 636 | -40 | 2 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 638 | -51 | 2 | 102 | 636 | -54 |  | 358 | 636 | -41 |  | 360 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 637 | -52 | 3 | 66 | 637 | -53 |  | 350 | 635 | -45 |  | 345 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 637 | -48 | 2 | 35 | 637 | -51 | 2 | 15 | 635 | -42 |  | 316 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-52.4$ STD DEV $=6.7$ MAX $=-32.9$ AT 440 GMT ON DAY 31 MIN $=-67.1$ AT 2020 GMT ON DAY 2
* theta (K) * mean $=250.17$
* PRESSURE (MB) * MEAN $=646.2$ STD DEV $=6.2$ MAX $=662.9$ AT 2200 GMT ON DAY 8 MIN $=635.1$ AT 1900 GMT ON DAY 31
* WINDS (M/S) * MEAN $=4.3$ STD DEV $=2.4$ RESULTANT $=3.3$ FROM 168. CONSTANCY $=0.77$ MAX $=13.5$ FROM 174 . AT 2240 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18 -20 $20-25$ 25-30 $\quad 30-35$, $35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad$ d.
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 636 & -38 & 2323\end{array}$
$\begin{array}{lllll}03 & 636 & -37 & 2 & 305\end{array}$
$\begin{array}{llllll}06 & 636 & -35 & 3 & 298\end{array}$
$\begin{array}{lllll}09 & 637 & -38 & 2 & 307\end{array}$
$\begin{array}{lllll}12 & 637 & -44 & 3 & 323\end{array}$
$\begin{array}{lllll}15 & 638 & -48 & 4 & 324\end{array}$
$\begin{array}{lllll}18 & 638 & -51 & 3 & 312\end{array}$
$\begin{array}{llll}21 & 638 & -45 & 3 \\ 320\end{array}$ DAY 8
$\begin{array}{lllll}00 & 656 & -41 & 9 & 157\end{array}$
$\begin{array}{lllll}03 & 655 & -38 & 9 & 129\end{array}$
$\begin{array}{lllll}06 & 655 & -36 & 7 & 136\end{array}$
$\begin{array}{lllll}09 & 654 & -35 & 4 & 161\end{array}$
$\begin{array}{lllll}12 & 653 & -40 & 3 & 178\end{array}$
$\begin{array}{lllll}15 & 653 & -45 & 3 & 185\end{array}$
$\begin{array}{lllll}18 & 653 & -44 & 3 & 140\end{array}$
$\begin{array}{lllll}21 & 655 & -43 & 4 & 126\end{array}$ DAY 15
$\begin{array}{lllll}00 & 659 & -39 & 7 & 185\end{array}$ $\begin{array}{lllll}03 & 659 & -37 & 7 & 174\end{array}$ $\begin{array}{lllll}06 & 659 & -35 & 6 & 157\end{array}$ $\begin{array}{lllll}09 & 660 & -36 & 6 & 149\end{array}$ $\begin{array}{lllll}12 & 661 & -40 & 3 & 147\end{array}$ $\begin{array}{lllll}15 & 662 & -43 & 4 & 147\end{array}$ $\begin{array}{lllll}18 & 662 & -44 & 4 & 153\end{array}$ $\begin{array}{lllll}21 & 663 & -41 & 4 & 161\end{array}$ DAY 22
$\begin{array}{lllll}00 & 670 & -29 & 4 & 144\end{array}$ $\begin{array}{llllll}03 & 670 & -26 & 6 & 146\end{array}$
$\begin{array}{lllll}06 & 670 & -26 & 6 & 146\end{array}$
$\begin{array}{lllll}09 & 670 & -27 & 5 & 149\end{array}$
$\begin{array}{lllll}12 & 670 & -31 & 6 & 154\end{array}$
$\begin{array}{lllll}15 & 670 & -36 & 6 & 147\end{array}$
$\begin{array}{lllll}18 & 670 & -39 & 6 & 139\end{array}$
$\begin{array}{llllll}21 & 670 & -33 & 7 & 125\end{array}$ DAY 29
$\begin{array}{lllll}00 & 659 & -26 & 6 & 274\end{array}$
$\begin{array}{llll}03 & 659 & -25 & 7 \\ 244\end{array}$
$\begin{array}{llll}06 & 659 & -25 & 8 \\ 229\end{array}$
$\begin{array}{llll}09 & 659 & -25 & 6 \\ 239\end{array}$
$\begin{array}{llll}12 & 659 & -29 & 5 \\ 241\end{array}$
$\begin{array}{llll}15 & 659 & -34 & 5 \\ 239\end{array}$
$\begin{array}{lllll}18 & 658 & -37 & 4 & 230\end{array}$
$21 \quad 658-35 \quad 4215$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{lll}638 & -38 & 2329\end{array}$
$\begin{array}{llll}638 & -36 & 3 & 306\end{array}$
638-34 4324
638-38 4331
$637-43 \quad 5324$
637-48 5319
$637-52 \quad 5292$
637-52 5272 DAY 9
$\begin{array}{llll}657 & -39 & 5 & 101\end{array}$
$\begin{array}{llll}659 & -36 & 6 & 97\end{array}$
$\begin{array}{llll}661 & -34 & 7115\end{array}$
$\begin{array}{llll}663 & -34 & 5 & 127\end{array}$
$\begin{array}{llll}664 & -39 & 5 & 150\end{array}$
$\begin{array}{llll}664 & -38 & 5 & 144\end{array}$
$\begin{array}{llll}665 & -41 & 5 & 118\end{array}$
$667-39 \quad 4119$ DAY 16
$\begin{array}{llll}663 & -35 & 5 & 165\end{array}$
$\begin{array}{llll}664 & -32 & 5 & 167\end{array}$
$\begin{array}{llll}664 & -31 & 5 & 165\end{array}$
$\begin{array}{llll}665 & -32 & 5 & 170\end{array}$
$\begin{array}{llll}665 & -36 & 5 & 172\end{array}$
$665-43 \quad 2175$
665-42 1192
$\begin{array}{llll}665 & -37 & 1 & 217\end{array}$ DAY 23
$\begin{array}{llll}670 & -30 & 9 & 115\end{array}$
$\begin{array}{llll}671 & -26 & 7 & 111\end{array}$
671-24 8112
671-26 5132
$\begin{array}{llll}671 & -31 & 4146\end{array}$
$670-36 \quad 4157$
670-40 4149
$\begin{array}{llll}670 & -38 & 4 & 167\end{array}$ DAY 30
658-32 5195
$\begin{array}{llll}658-29 & 7 & 201\end{array}$
$\begin{array}{llll}659 & -27 & 6 & 198\end{array}$
$\begin{array}{llll}659 & -27 & 7 & 199\end{array}$
$\begin{array}{llll}659 & -30 & 3 & 198\end{array}$
$\begin{array}{llll}659 & -36 & 4 & 194\end{array}$
$\begin{array}{llll}659 & -39 & 3 & 209\end{array}$
$\begin{array}{llll}659 & -37 & 4 & 199\end{array}$

PP TT VV DD DAY 4
$\begin{array}{lll}646 & -49 & 915\end{array}$
$647-4610201$
$\begin{array}{llll}648 & -44 & 10199\end{array}$
$\begin{array}{llll}649 & -44 & 8 & 198\end{array}$
$\begin{array}{llll}648 & -47 & 5 & 205\end{array}$
$648-51 \quad 6188$
648-52 7180
648 -50 7172
DAY 11
$\begin{array}{llll}667 & -33 & 6157\end{array}$
$\begin{array}{llll}666 & -32 & 6 & 149\end{array}$
$666-29 \quad 6146$
$666-30 \quad 6149$
$\begin{array}{llll}666 & -32 & 3136\end{array}$
$\begin{array}{llll}665 & -35 & 5 & 132\end{array}$
$\begin{array}{llll}665 & -39 & 3 & 115\end{array}$
$\begin{array}{lllll}665 & -37 & 4 & 143\end{array}$
DAY 18
657-29 9 165
657-28 11170
$657-2614157$
657-27 10144
$\begin{array}{llll}658 & -31 & 9 & 147\end{array}$
659-29 11151
$659-31 \quad 8150$
$660-318140$
DAY 25
667-32 5147
$\begin{array}{lllll}667 & -31 & 6 & 144\end{array}$
667-29 3136
$\begin{array}{llll}667 & -28 & 3120\end{array}$
$\begin{array}{llll}667 & -28 & 2105\end{array}$
$668-28 \quad 3 \quad 40$
668-29 159
669-27 171

| PP | TT | VV | DD | PP | TT | VV | DD | PP |  | $v$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 648 | -47 | 8 | 158 | 653 | -40 | 7 | 132 | 661 | -41 | 3 | 168 |
| 647 | -45 | 9 | 150 | 654 | -39 | 7 | 132 | 661 | -36 | 4 | 174 |
| 648 | -42 | 10 | 156 | 655 | -37 | 6 | 133 | 661 | -34 | 5 | 181 |
| 648 | -41 | 7 | 149 | 656 | -38 | 6 | 140 | 660 | -38 | 5 | 180 |
| 649 | -41 | 9 | 150 | 658 | -43 | 3 | 150 | 659 | -43 | 5 | 171 |
| 650 | -44 | 8 | 139 | 659 | -48 | 3 | 151 | 659 | -46 | 4 | 174 |
| 650 | -47 | 6 | 144 | 660 | -50 | 5 | 151 | 658 | -47 | 5 | 161 |
| 651 | -44 | 8 | 137 | 660 | -47 | 4 | 161 | 657 | -45 | 6 | 161 |
|  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 665 | -32 | 5 | 132 | 668 | -32 | 2 | 130 | 665 | -34 | 5 | 210 |
| 665 | -30 | 7 | 122 | 668 | -30 | 4 | 143 | 664 | -31 | 5 | 219 |
| 665 | -27 | 6 | 111 | 668 | -28 | 3 | 129 | 664 | -30 | 5 | 203 |
| 666 | -29 | 7 | 130 | 668 | -31 | 3 | 149 | 663 | -32 | 5 | 213 |
| 666 | -32 | 6 | 122 | 668 | -36 | 2 | 171 | 662 | -36 | 6 | 203 |
| 667 | -37 | 5 | 132 | 667 | -41 | 3 | 175 | 661 | -40 | 7 | 195 |
| 667 | -40 | 4 | 125 | 667 | -43 | 3 | 185 | 661 | -43 | 6 | 191 |
| 668 | -38 | 3 | 133 | 666 | -39 | 3 | 201 | 660 | -42 | 7 | 188 |
|  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 660 | -29 | 5 | 149 | 666 | -31 | 2 | 203 | 668 | -33 | 3 | 160 |
| 661 | -29 | 3 | 130 | 666 | -29 | 4 | 164 | 668 | -31 | 6 | 132 |
| 662 | -27 | 3 | 139 | 666 | -27 | 3 | 171 | 668 | -29 | 6 | 143 |
| 662 | -27 | 1 | 149 | 667 | -28 | 2 | 168 | 668 | -30 | 4 | 139 |
| 663 | -30 | 1 | 116 | 667 | -33 | 2 | 170 | 669 | -32 | 4 | 151 |
| 664 | -31 | 0 | 0 | 667 | -38 | 2 | 99 | 669 | -36 | 3 | 150 |
| 665 | -32 | 0 | 0 | 668 | -41 | 2 | 140 | 669 | -37 | 3 | 156 |
| 665 | -36 |  | . 212 | 668 | -38 | 2 | 146 | 669 | -34 | 3 | 151 |
|  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 669 | -24 | 0 | 0 | 670 | -27 | 2 | 82 | 667 | -31 | 6 | 250 |
| 669 | -27 | 2 | 81 | 670 | -22 | 0 | 0 | 666 | -26 | 6 | 246 |
| 669 | -26 | 3 | 66 | 669 | -20 | 0 | 0 | 665 | -26 | 7 | 260 |
| 669 | -26 | 2 | 108 | 669 | -23 | 3 | 326 | 664 | -26 | 6 | 262 |
| 669 | -32 | 2 | 101 | 669 | -29 | 3 | 237 | 663 | -29 | 5 | 275 |
| 669 | -37 | 2 | 122 | 668 | -34 | 2 | 303 | 662 | -34 | 5 | 272 |
| 670 | -37 | 2 | 92 | 668 | -38 | 2 | 271 | 661 | -36 |  | 268 |
| 670 | -32 | 0 | 0 | 667 | -35 | 3 | 255 | 660 | -31 | 6 | 279 |

* temperature ( $C$ ) * mean $=-35.5$ Std dev $=7.1$ MaX $=-18.5$ AT 630 GMT ON dAY 27 MIN $=-53.6$ AT 1710 GMt ON dAY 3
* theTA (K) * MEAN $=267.62$
* PRESSURE (MB) * MEAN $=660.4$ STD DEV $=9.3$ MAX $=671.0$ AT 720 GMT ON DAY 23 MIN $=635.5$ AT 0 GMT ON DAY 1
$*$ WINDS $(M / S) *$ MEAN $=4.9$ STD DEV $=2.4$ RESULTANT $=3.3$ FROM 170. CONSTANCY $=0.67 \mathrm{MAX}=14.2$ FROM 157. AT 610 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 $2-4$ 4-6 6-8 8 -10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \cdot 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 1 & 3 & 6 & 20 & 25 & 12 & 9 & 3 & 7 & 5 & 1 & 5 & 1\end{array}$


* TEMPERATURE (C) * MEAN $=-27.8$ STD DEV $=5.5$ MAX $=-14.0$ AT 200 GMT ON DAY 25 MIN $=-40.4$ AT 1810 GMT ON DAY 2
* THETA (K) * MEAN $=276.57$
* PRESSURE (MB) * MEAN $=657.8$ STD DEV $=4.6$ MAX $=669.5$ AT 10 GMT ON DAY 26 MIN $=648.8$ AT 400 GMT ON DAY 11
* $\operatorname{WINDS}(M / S) *$ MEAN $=2.8 \mathrm{STD}$ DEV $=1.6$ RESULTANT $=1.8$ FROM 220 . CONSTANCY $=0.64$ MAX $=10.0$ FROM 196 . AT 520 GMT DAY 17
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \% \quad$ WINDS: $0.8 \%$

 $\begin{array}{lllllllllllllllllllllll}\text { PERCENT } & 0 & 0 & 1 & 2 & 0 & 3 & 3 & 6 & 13 & 15 & 16 & 15 & 14 & 10 & 1 & 1\end{array}$

|  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 |  |  |  |  |  |  |  |  |  |  |  |  | 889 | -3 | 4337 | 888 | -4 | 4296 | 881 | -5 |  | 6288 |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  | 889 | -4 | 4340 | 887 | -4 | 4317 | 880 | -4 |  | 3303 |
| 06 |  |  |  |  |  |  |  |  |  | 887 | -4 | 6355 | 889 | -6 | 6352 | 886 | -6 | 4348 | 880 | -5 |  | 5296 |
| 09 |  |  |  |  |  |  |  |  |  | 887 | -6 | 7360 | 889 | -8 | 6355 | 885 | -6 | 4360 | 879 | -5 |  | 4302 |
| 12 |  |  |  |  |  |  |  |  |  | 887 | -7 | 7351 | 887 | -9 | 8358 | 884 | -9 | 5360 | 878 | -5 |  | 4334 |
| 15 |  |  |  |  |  |  |  |  |  | 888 | -7 | 5354 | 887 | -7 | 6340 | 883 | -7 | 5352 | 878 | -5 |  | 4288 |
| 18 |  |  |  |  |  |  |  |  |  | 888 | -6 | 6333 | 887 | -6 | 4327 | 882 | -5 | 4357 | 879 | -6 |  | 6264 |
| 21 |  |  |  |  |  |  |  |  |  | 889 | -4 | 4340 | 887 | -5 | 6295 | 881 | -3 | 3317 | 880 | -6 |  | 5247 |
|  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |  |  |
| 00 | 880 | -6 | 6284 | 884 | -4 | 2300 | 884 | -9 | 5275 | 876 | -12 | 3274 | 872 | -6 | 5320 | 876 | -7 | 6313 | 883 | -9 |  | 3351 |
| 03 | 881 | -6 | 4286 | 884 | -6 | 4272 | 883 | -9 | 5285 | 875 | -11 | 4279 | 872 | -7 | 3360 | 877 | -7 | 5295 | 882 | -12 |  | 4344 |
| 06 | 880 | -7 | 6352 | 885 | -6 | 3322 | 882 | -8 | 2299 | 874 | -14 | 3348 | 872 | -8 | 3302 | 878 | -7 | 4315 | 882 | -12 |  | 4316 |
| 09 | 881 | -7 | 3306 | 884 | -6 | 3284 | 881 | -8 | 3316 | 874 | -12 | 4316 | 873 | 10 | 5330 | 879 | 10 | 5340 | 882 | -11 |  | 3315 |
| 12 | 881 | -8 | 3305 | 884 | -7 | 4309 | 880 | -13 | 6341 | 874 | -12 | 4336 | 874 | 10 | 6333 | 880 | -10 | 5330 | 882 | -13 |  | 49 |
| 15 | 882 | -5 | 2350 | 884 | -7 | 4281 | 878 | -14 | 6338 | 873 | -11 | 41 | 874 | -9 | 5345 | 881 | -9 | 4333 | 882 | -15 |  | 3354 |
| 18 | 883 | -5 | 3284 | 884 | -7 | 5264 | 877 | -13 | 5307 | 872 | -10 | 4348 | 874 | -7 | 6345 | 882 | -8 | 4327 | 882 | -9 |  | 3358 |
| 21 | 884 | -5 | 4291 | 884 | -7 | 5291 | 876 | -13 | 5268 | 872 | -7 | 4348 | 875 | -7 | 7327 | 882 | -9 | 41 | 881 | -9 |  | 4334 |
|  | DAY 29 |  |  | DAY 30 |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 880 | -9 | 5331 | 878 | -8 | 5327 | 890 | -6 | 4310 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 879 | -10 | 5352 | 879 | -8 | 6324 | 890 | -7 | 4322 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 879 | -10 | 55 | 881 | -8 | 6350 | 891 | -10 | 4324 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 878 | -10 | $4 \quad 16$ | 882 | -8 | 5327 | 891 | -9 | 4330 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 877 | -14 | 635 | 883 | -7 | 6319 | 891 | -8 | 5320 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 876 | -14 | $8 \quad 16$ | 885 | -7 | 7289 | 891 | -8 | 6347 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 876 | -13 | 6360 | 887 | -7 | 5286 | 892 | -7 | 4330 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 877 | -9 | 9334 | 889 | -6 | 4303 | 892 | -6 | 7340 |  |  |  |  |  |  |  |  |  |  |  |  |  |

DAY 10

DAY 16
DAY 15

DAY 22

PP TT VV DD DAY 2

PP TT VV DD DAY 3

PP TT WV DD DAY 4

PP TT WV DD
PP $\begin{array}{cc}\text { TT WV } \\ \text { DAY } & 6\end{array}$
PP TTV DD DAY 7

DAY 13
DAY 14

* TEMPERATURE (C) * MEAN $=-7.9$ STD DEV $=2.7$ MAX $=-2.4$ AT 2240 GMT ON DAY 18 MIN $=-15.1$ AT 1250 GMT ON DAY 24
* theta (K) * MEAN $=275.03$
* PRESSURE (MB) * MEAN $=881.7$ STD DEV $=5.2$ MAX $=891.7$ AT 1310 GMT ON DAY 31 MIN $=871.6$ at 250 GMT ON DAY 26
* WINDS (M/S) * MEAN $=4.6 \mathrm{STD}$ DEV $=1.4$ RESULTANT $=4.0$ FROM 327. CONSTANCY $=0.87$ MAX $=9.8$ FROM 4. AT 1450 GMT DAY 29
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $55.6 \%$ PRESSURE: $55.6 \%$ WINDS: $55.6 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNH PERCENT

HR PP TT VV DD
$\begin{array}{lllll}00 & 891 & -6 & 7 & 327\end{array}$
$\begin{array}{lllll}03 & 891 & -5 & 6 & 316\end{array}$
$\begin{array}{lllll}06 & 891 & -5 & 7 & 317\end{array}$
$\begin{array}{lllll}09 & 891 & -9 & 7 & 331\end{array}$
$\begin{array}{lllll}12 & 891 & -9 & 8 & 326\end{array}$
$\begin{array}{lllll}15 & 891 & -7 & 8 & 315\end{array}$
18
$\begin{array}{lllll}21 & 892 & -4 & 9 & 305\end{array}$ DAY 8
$\begin{array}{lllll}00 & 876 & -13 & 8 & 313\end{array}$
$\begin{array}{lllll}03 & 876 & -14 & 6 & 272\end{array}$
$\begin{array}{llll}06 & 877 & -14 & 7 \\ 261\end{array}$
$\begin{array}{llll}09 & 878 & -15 & 8 \\ 261\end{array}$
$\begin{array}{llll}12 & 879 & -16 & 3\end{array}$
$\begin{array}{lllll}15 & 879 & -14 & 3 & 270\end{array}$
$\begin{array}{lllll}18 & 878 & -14 & 5 & 298\end{array}$
$\begin{array}{llll}21 & 878 & -13 & 3\end{array}$ DAY 15
$00 \quad 870-20 \quad 6358$
$\begin{array}{lllll}03 & 870 & -21 & 6 & 351\end{array}$
$\begin{array}{llll}06 & 871 & -24 & 6 \\ 354\end{array}$
$\begin{array}{lllll}09 & 872 & -25 & 6 & 344\end{array}$
$\begin{array}{lllll}12 & 874 & -25 & 7 & 352\end{array}$

| 15 | 875 | -23 | 7 |
| :--- | :--- | :--- | :--- |


| 18 | 875 | -21 | 7 |
| :--- | :--- | :--- | :--- |


| 21 | 875 | -18 | 5 |
| :--- | :--- | :--- | :--- | DAY 22

$\begin{array}{lllll}00 & 875 & -8 & 10 & 292\end{array}$
$\begin{array}{lllll}03 & 875 & -8 & 9 & 302\end{array}$
$\begin{array}{lllll}06 & 876 & -9 & 9 & 307\end{array}$
$\begin{array}{llll}09 & 876 & -10 & 6\end{array} 319$
$\begin{array}{llll}12 & 876 & -10 & 8 \\ 331\end{array}$
$\begin{array}{llll}15 & 876 & -10 & 8 \\ 324\end{array}$
$\begin{array}{lllll}18 & 876 & -9 & 8 & 309\end{array}$
$\begin{array}{llll}21 & 876 & -10 & 7315\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{lll}893 & -5 & 6324\end{array}$
$\begin{array}{llll}894 & -7 & 6 & 350\end{array}$
$\begin{array}{cccc}893 & -11 & 8 & 1\end{array}$
893-12 $11 \quad 19$

890-13 12358
$\begin{array}{llll}889 & -9 & 8 & 337\end{array}$
$\begin{array}{llll}889 & -9 & 6317\end{array}$
DAY 9
878-14 2299
877-15 3313
877-16 3360
$\begin{array}{llll}876 & -21 & 7 & 1\end{array}$
$\begin{array}{llll}876 & -22 & 7 & 1\end{array}$
$\begin{array}{llll}875 & -21 & 6 & 2\end{array}$
875-18 6360
$\begin{array}{llll}875 & -17 & 6 & 15\end{array}$
DAY 16
$\begin{array}{llll}875 & -13 & 3 & 333\end{array}$
876-14 4310
876-13 4324
877-12 3 347
878-12 2281
878-11 2326
878-10 4323
880-14 5257 DAY 23
876-10 6 338
875-10 5341
$\begin{array}{llll}874 & -13 & 6 & 4\end{array}$
$\begin{array}{llll}873 & -14 & 7 & 1\end{array}$
872-15 6360
871-12 5343
871-10 7343
871-10 4330

DAY 3
$\begin{array}{lrrr}890 & -8 & 5 & 298 \\ 890 & -8 & 6 & 337 \\ 889 & -10 & 6 & 347 \\ 889 & -7 & 6 & 357 \\ 888 & -7 & 7 & 348 \\ 888 & -8 & 5 & 347 \\ 888 & -6 & 5 & 350 \\ 888 & -5 & 6 & 338 \\ \text { DAY } & 10\end{array}$
875-15 539
$\begin{array}{llll}874 & -16 & 5 & 19\end{array}$
$\begin{array}{llll}874 & -19 & 7 & 23\end{array}$
$\begin{array}{llll}875 & -23 & 8 & 18\end{array}$
$\begin{array}{llll}875 & -23 & 8 & 12\end{array}$
$\begin{array}{llll}875 & -22 & 6 & 7\end{array}$
876-16 6352
$\begin{array}{lll}878 & -17 & 5 \\ 267\end{array}$
DAY 17
882-15 4292
883-18 4340
$\begin{array}{llll}883 & -23 & 4 & 11\end{array}$
$\begin{array}{llll}883 & -21 & 116\end{array}$
$\begin{array}{llll}882 & -24 & 5 & 25\end{array}$
881-14 5358
$\begin{array}{llll}880 & -8 & 6 & 320\end{array}$
$\begin{array}{lll}879 & -8 & 7312\end{array}$
DAY 24
871-10 2261
872-12 3240
872-16 2286
873-15 1275

| 875 | -17 | 3 |
| :--- | :--- | :--- |

875-19 3285
877-17 4284


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-14.9$ STD DEV $=6.6$ MAX $=-2.5$ AT 2320 GMT ON DAY 4 MIN $=-28.5$ AT 1220 GMT ON DAY 14
* THETA (K) * MEAN $=267.95$
* PRESSURE (MB) * MEAN $=879.2$ STD DEV $=7.4$ MAX $=894.1$ AT 130 GMT ON DAY 2 MIN $=858.6$ AT 1800 GMT ON DAY 28
* WINDS (M/S) * MEAN $=5.6$ STD DEV $=2.5$ RESULTANT $=4.8$ FROM 336. CONSTANCY $=0.85$ MAX $=16.6$ FROM 4. AT 1620 GMT DAY 20
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad$ J+ PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
31 & 6 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 6 & 13 & 19 & 19
\end{array}
$$

| HR | PP | TT | vV | DD | PP |  |  | DD | PP | TT |  | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | day | 2 |  |  | DAY | 3 |  |
| 00 | 860 | -11 | 6 | 358 | 871 | -12 | 6 | 341 | 872 | -16 | 6 | 357 |
| 03 | 860 | -11 | 5 | 351 | 872 | -11 | 6 | 336 | 871 | -15 | 6 | 2 |
| 06 | 861 | -11 | 8 | 354 | 873 | -11 | 5 | 338 | 870 | -17 | 7 | 2 |
| 09 | 862 | -11 | 10 | 360 | 874 | -12 | 8 | 336 | 869 | -18 | 9 | 360 |
| 12 | 863 | -12 | 8 | 340 | 874 | -13 | 6 | 344 | 868 | -20 | 9 | 2 |
| 15 | 865 | -13 |  | 352 | 874 | -14 | 6 | 357 | 867 | -20 | 9 | 360 |
| 18 | 867 | -11 | 6 | 347 | 874 | -14 | 6 | 4 | 867 | -20 | 11 | 360 |
| 21 | 869 | -12 | 7 | 341 | 873 | -15 | 6 | 360 | 866 | -18 | 9 | 357 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 862 | -23 | 8 | 355 | 867 | -16 | 5 | 355 | 872 | -22 | 7 | 317 |
| 03 | 862 | -16 | 6 | 337 | 867 | -17 | 5 | 355 | 871 | -23 | 3 | 331 |
| 06 | 863 | -18 | 8 | 334 | 868 | -18 | 6 | 347 | 869 | -25 | 4 | 286 |
| 09 | 863 | -19 | 8 | 347 | 869 | -21 | 5 | 345 | 867 | -25 | 3 | 4 |
| 12 | 864 | -20 | 8 | 352 | 870 | -20 | 4 | 300 | 863 | -26 | 8 | 360 |
| 15 | 865 | -21 | 8 | 1 | 871 | -24 | 3 | 340 | 859 | -26 | 8 | 18 |
| 18 | 865 | -18 | 7 | 358 | 872 | -21 | 4 | 327 | 856 | -24 | 7 | 1 |
| 21 | 866 | -17 | 6 | 344 | 873 | -20 | 3 | 313 | 853 | -17 | 5 | 331 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 875 | -17 | 7 | 341 | 867 | -19 | 5 | 348 | 857 | -22 | 5 | 358 |
| 03 | 875 | -16 | 8 | 350 | 865 | -17 | 6 | 347 | 857 | -20 | 6 | 299 |
| 06 | 874 | -16 | 6 | 334 | 864 | -20 | 4 | 358 | 859 | -25 | 9 | 305 |
| 09 | 874 | -22 | 6 | 357 | 864 | -21 | 3 | 336 | 861 | -26 | 9 | 279 |
| 12 | 873 | -24 | 8 | 9 | 862 | -23 | 4 | 350 | 863 | -28 | 7 | 285 |
| 15 | 872 | -26 | 8 | 1 | 861 | -24 | 5 | 355 | 865 | -29 | 5 | 284 |
| 18 | 870 | -23 | 8 | 7 | 859 | -21 | 4 | 358 | 867 | -29 | 8 | 278 |
| 21 | 868 | -19 | 8 | 1 | 858 | -23 | 6 | 360 | 869 | -28 | 8 | 258 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |
| 00 | 876 | -25 | 10 | 7 | 873 | -21 | 9 | 360 | 872 | -28 | 8 | 358 |
| 03 | 876 | -26 | 9 | 4 | 873 | -24 | 9 | 4 | 872 | -29 | 10 | 360 |
| 06 | 876 | -25 | 8 | 7 | 873 | -24 | 7 | 358 | 873 | -31 |  | 358 |
| 09 | 875 | -23 | 10 | 9 | 873 | -25 | 9 | 360 | 874 | -32 | 8 | 358 |
| 12 | 875 | -23 | 12 | 8 | 872 | -27 | 10 | 360 | 875 | -33 |  | 360 |
| 15 | 874 | -24 | 11 | 15 | 872 | -28 | 11 | 360 | 876 | -33 | 8 | 360 |
| 18 | 874 | -23 | 11 | 2 | 872 | -28 | 9 | 1 | 877 | -33 | 7 | 4 |
| 21 | 873 | -21 | 11 | 8 | 872 | -28 | 7 | 360 | 878 | -32 | 7 | 360 |
|  |  | DAY | 29 |  |  |  | 30 |  |  |  |  |  |
| 00 | 846 | -11 |  | 341 | 859 | -23 | 8 | 334 | 864 | -23 | 3 | 233 |
| 03 | 848 | -13 | 6 | 345 | 861 | -22 | 7 | 355 | 866 | -28 | 6 | 331 |
| 06 | 849 | -17 |  | 360 | 861 | -26 | 9 | 360 | 865 | -32 | 8 | 14 |
| 09 | 851 | -19 | 7 | 358 | 861 | -27 | 10 | 7 | 863 | -29 | 10 | 8 |
| 12 | 853 | -17 | 8 | 354 | 861 | -23 | 10 | 360 | 860 | -26 | 13 | 2 |
| 15 | 855 | -18 | 8 | 317 | 860 | -17 | 12 | 358 | 857 | -20 | 14 | 360 |
| 18 | 857 | -20 | 4 | 355 | 860 | -17 |  | 355 | 854 | -16 | 13 |  |
| 21 | 858 | -22 | 8 | 350 | 861 | -17 | 7 | 271 | 852 | -16 | 11 | 351 |



## MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-20.6$ std dev $=6.7$ MAX $=-5.9$ at 2330 GMT ON day 11 min $=-35.5$ at 1030 GMt ON dAY 19
* theta (K) * MEAN $=263.31$
* PRESSURE (MB) * MEAN $=864.7$ STD DEV $=8.9$ MAX $=884.1$ AT 1410 GMT ON DAY 25 MIN $=842.6$ AT 20 GMT ON DAY 12
* WINDS (M/S) * MEAN $=7.2$ STD DEV $=2.2$ RESULTANT $=6.6 \mathrm{FROM} 350$. CONSTANCY $=0.93 \mathrm{MAX}=17.5 \mathrm{FROM} 360$. AT 1940 GMT DAY 31 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ 30-35 $\begin{array}{ll}35-40 & 40-45 \\ 45-50 & 50-55 \\ 55-60 & 60+\end{array}$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
percent

HR PP TT VV DD $\begin{array}{llll}00 & 852 & -14 & 9 \\ 350\end{array}$ $\begin{array}{lllll}03 & 855 & -20 & 12 & 286\end{array}$ $\begin{array}{llll}06 & 858 & -20 & 5 \\ 340\end{array}$ $\begin{array}{llll}09 & 858 & -22 & 8 \\ 360\end{array}$ $\begin{array}{llll}12 & 860 & -24 & 9 \\ 352\end{array}$ $\begin{array}{lllll}15 & 862 & -24 & 8 & 360\end{array}$ $\begin{array}{lllll}18 & 862 & -27 & 10 & 360\end{array}$ $\begin{array}{llll}21 & 863 & -26 & 860\end{array}$ DAY 8
$\begin{array}{llll}00 & 870 & -27 & 4330\end{array}$
$\begin{array}{lllll}03 & 872 & -31 & 5 & 327\end{array}$
$\begin{array}{llll}06 & 874 & -32 & 7 \\ 341\end{array}$
$\begin{array}{llll}09 & 875 & -36 & 5\end{array} 355$
$\begin{array}{lllll}12 & 875 & -37 & 7 & 9\end{array}$
$\begin{array}{lllll}15 & 875 & -36 & 7 & 360\end{array}$
$\begin{array}{lllll}18 & 875 & -36 & 9 & 4\end{array}$
$\begin{array}{lllll}21 & 874 & -36 & 8 & 2\end{array}$ DAY 15
$\begin{array}{lllll}00 & 859 & -34 & 11 & 25\end{array}$
$\begin{array}{lllll}03 & 859 & -35 & 11 & 11\end{array}$
$\begin{array}{lllll}06 & 860 & -35 & 10 & 8\end{array}$
$\begin{array}{lllll}09 & 861 & -36 & 11 & 14\end{array}$
$\begin{array}{lllll}12 & 863 & -33 & 9 & 4\end{array}$
$\begin{array}{lllll}15 & 864 & -32 & 7 & 2\end{array}$
$\begin{array}{lllll}18 & 865 & -37 & 7 & 14\end{array}$
$\begin{array}{lllll}21 & 865 & -39 & 7 & 4\end{array}$ DAY 22
$\begin{array}{lllll}00 & 879 & -37 & 7 & 357\end{array}$
03 879. $-38 \quad 8 \quad 1$
$\begin{array}{lllll}06 & 879 & -37 & 10 & 2\end{array}$
$\begin{array}{lllll}09 & 879 & -37 & 10 & 2\end{array}$
$\begin{array}{lllll}12 & 880 & -37 & 9 & 360\end{array}$
$\begin{array}{llll}15 & 879 & -36 & 10 \\ 360\end{array}$
$\begin{array}{lllll}18 & 879 & -34 & 9 & 360\end{array}$
$\begin{array}{llll}21 & 880 & -34 & 9 \\ 358\end{array}$ DAY 29
$\begin{array}{lllll}00 & 860 & -38 & 6 & 336\end{array}$
$\begin{array}{lllll}03 & 861 & -40 & 6 & 1\end{array}$
$\begin{array}{lllll}06 & 860 & -41 & 7 & 23\end{array}$
$\begin{array}{lllll}09 & 857 & -37 & 7 & 29\end{array}$
$\begin{array}{lllll}12 & 854 & -27 & 6 & 355\end{array}$
$\begin{array}{lllll}15 & 853 & -22 & 5 & 358\end{array}$
$\begin{array}{llll}18 & 853 & -21 & 6 \\ 336\end{array}$

| 21 | 855 | -20 | 5 |
| :--- | :--- | :--- | :--- |

PP TT VV DD DAY 2
863-26 11358
$\begin{array}{llll}863 & -24 & 8 & 347\end{array}$
$\begin{array}{llll}863 & -23 & 10 & 360\end{array}$
$\begin{array}{llll}863 & -22 & 13 & 360\end{array}$
864-22 14358
865-22 13358
$\begin{array}{llll}865 & -22 & 13 & 358\end{array}$
867-22 $15 \quad 2$
DAY 9
$\begin{array}{llll}873 & -36 & 8 & 9\end{array}$
$\begin{array}{llll}871 & -35 & 9 & 9\end{array}$
$\begin{array}{llll}870 & -35 & 9 & 9\end{array}$
$\begin{array}{llll}869 & -35 & 11 & 4\end{array}$
$\begin{array}{llll}867 & -35 & 9 & 2\end{array}$
$\begin{array}{llll}867 & -34 & 8 & 357\end{array}$
$\begin{array}{llll}866 & -33 & 8 & 358\end{array}$
866 -34 7355 DAY 16
$\begin{array}{llll}865 & -40 & 8 & 8\end{array}$
$\begin{array}{llll}865 & -39 & 7 & 7\end{array}$
$\begin{array}{llll}865 & -40 & 7 & 8\end{array}$
$\begin{array}{llll}865 & -41 & 7\end{array}$
866-41 7360
866-40 6357
867-41 6358
868 -40 5360 DAY 23
881 -33 8330 $\begin{array}{llll}881 & -35 & 6 & 344\end{array}$ $\begin{array}{llll}880 & -36 & 8 & 345\end{array}$ $\begin{array}{llll}878 & -32 & 8 & 354\end{array}$ $\begin{array}{llll}876 & -33 & 10 & 358\end{array}$ $\begin{array}{lllll}873 & -30 & 12 & 358\end{array}$ 870-29 $11 \quad 2$ 867-26 13360 DAY 30
856-17 7347
858-17 6348
$\begin{array}{llll}858 & -22 & 6 & 12\end{array}$
$\begin{array}{llll}858 & -22 & 8 & 8\end{array}$
$\begin{array}{llll}857 & -21 & 11 & 18\end{array}$
858-22 8315
$863-28 \quad 4270$
867-31 7255

PP TTVV DD DAY 3
867-23 15360
$\begin{array}{llll}868 & -24 & 15 & 2\end{array}$
$\begin{array}{llll}868 & -27 & 17 & 9\end{array}$
$\begin{array}{llll}869 & -26 & 13 & 18\end{array}$
$\begin{array}{llll}869 & -26 & 16 & 19\end{array}$
$\begin{array}{llll}869 & -26 & 12 & 19\end{array}$
$\begin{array}{llll}868 & -25 & 15 & 11\end{array}$
$\begin{array}{llll}867 & -24 & 14 & 14\end{array}$

## DAY 10

$\begin{array}{llll}866 & -35 & 8 & 355\end{array}$
$\begin{array}{llll}865 & -34 & 8 & 358\end{array}$
$\begin{array}{llll}864 & -36 & 8 & 2\end{array}$
$\begin{array}{llll}863 & -36 & 8 & 5\end{array}$
$\begin{array}{llll}862 & -36 & 9 & 2\end{array}$
$\begin{array}{llll}861 & -36 & 9 & 360\end{array}$
860-32 $\quad 8 \quad 4$
$\begin{array}{llll}859 & -34 & 10 & 5\end{array}$
DAY 17
$\begin{array}{llll}869 & -37 & 5 & 337\end{array}$
$\begin{array}{llll}870 & -36 & 3 & 317\end{array}$
870-35 4322
872-35 $\quad 3 \quad 344$
874-36 $\quad 3 \quad 358$
$\begin{array}{llll}876 & -41 & 5 & 8\end{array}$
878-39 4360
$\begin{array}{llll}879 & -43 & 6 & 18\end{array}$
DAY 24
865-24 11355
865-21 8348
865-20 $10 \quad 338$
869-19 9312
$\begin{array}{llll}873 & -22 & 13 & 288\end{array}$
878-28 $10 \quad 296$
880-29 9324
881-24 6334

| PP | TT | WV | DD | PP | TT | VV | DD | PP |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| DAY | 4 |  |  | DAY | VV | DD |  |  |  |  |  |
| 867 | -24 | 17 | 1 | 861 | -12 | 13 | 23 | 871 | -18 | 10 | 11 |
| 868 | -24 | 13 | 2 | 857 | -13 | 24 | 26 | 870 | -19 | 11 | 11 |
| 868 | -24 | 11 | 15 | 861 | -12 | 21 | 4 | 868 | -17 | 10 | 12 |
| 868 | -22 | 7 | 39 | 868 | -14 | 17 | 11 | 866 | -16 | 13 | 22 |
| 866 | -18 | 7 | 26 | 870 | -15 | 16 | 14 | 863 | -17 | 17 | 7 |
| 865 | -18 | 5 | 39 | 872 | -16 | 16 | 15 | 860 | -16 | 18 | 2 |
| 864 | -17 | 12 | 16 | 873 | -18 | 13 | 25 | 860 | -15 | 19 | 360 |
| 862 | -14 | 12 | 22 | 872 | -15 | 14 | 8 | 861 | -15 | 17 | 1 |

## DAY 13

863-28 $4 \quad 4$
$\begin{array}{llll}862 & -29 & 4 & 23\end{array}$
$\begin{array}{llll}860 & -34 & 7 & 9\end{array}$
$\begin{array}{llll}859 & -36 & 7 & 2\end{array}$
$\begin{array}{llll}858 & -37 & 7 & 8\end{array}$
$\begin{array}{llll}858 & -38 & 6 & 14\end{array}$
$\begin{array}{llll}856 & -39 & 8 & 2\end{array}$
856-39 $7 \quad 4$
DAY 20
$\begin{array}{llll}884 & -38 & 8 & 5\end{array}$
$\begin{array}{llll}883 & -36 & 7 & 360\end{array}$
$\begin{array}{llll}882 & -33 & 9 & 4\end{array}$
$\begin{array}{llll}881 & -34 & 9 & 4\end{array}$
$\begin{array}{llll}880 & -33 & 7 & 2\end{array}$
$\begin{array}{llll}879 & -33 & 10 & 7\end{array}$
$\begin{array}{llll}878 & -32 & 8 & 360\end{array}$
877 -33 1016 DAY 27
862-13 5331
860-13 4324
856-18 $\quad 5 \quad 15$
855-20 3331
858-16 7307
861-23 17275
$\begin{array}{llll}866 & -28 & 14 & 288\end{array}$
$\begin{array}{lll}871 & -34 \quad 6316\end{array}$

PP TT VV DD DAY 7
863-16 17360
$864-15 \quad 17 \quad 360$
865-16 14360
$\begin{array}{llll}865 & -18 & 11 & 2\end{array}$
865-19 9 352
867-24 4348
$\begin{array}{llll}868 & -25 & 6 & 4 \\ 869 & -28 & 7 & 2\end{array}$
DAY 14
856-39 7
$\begin{array}{llll}857 & -39 & 7 & 9\end{array}$
$\begin{array}{llll}857 & -39 & 8 & 7\end{array}$
857-39 $\quad 8 \quad 11$
857-40 9
857-39 $10 \quad 8$
857-37 10
858-35 $13 \quad 1$
DAY 21
$\begin{array}{llll}876 & -33 & 10 & 15\end{array}$
$\begin{array}{rrrr}875 & -33 & 8 & 19\end{array}$
$\begin{array}{llll}875 & -32 & 10 & 360\end{array}$
$\begin{array}{llll}875 & -34 & 9 & 9\end{array}$
$\begin{array}{llll}876 & -34 & 9 & 355\end{array}$
$\begin{array}{llll}877 & -35 & 8 & 355\end{array}$
$\begin{array}{llll}878 & -36 & 9 & 357\end{array}$
$\begin{array}{llll}878 & -37 & 8 & 355\end{array}$
DAY 28
$\begin{array}{llll}870 & -37 & 8 & 11\end{array}$
$\begin{array}{llll}869 & -36 & 6 & 16\end{array}$
867-33 6350
$\begin{array}{llll}864 & -32 & 8 & 360\end{array}$
$\begin{array}{llll}861 & -32 & 4 & 341\end{array}$
858-25 5330
857-27 5316
$858-32 \quad 6310$

* TEMPERATURE (C) * MEAN $=-28.9$ StD deV $=8.6$ MAX $=-11.0$ at 500 GMT ON DAY 5 MIN $=-44.5$ AT 2350 GMT ON DAY 17
* theta (K) * MEAN $=254.40$
* PRESSURE (MB) * MEAN $=867.2$ STD DEV $=8.4$ MAX $=884.0$ AT 2040 GMT ON DAY 19 MIN $=850.8$ AT 1040 GMT ON DAY 11
* WINDS (M/S) * MEAN $=8.7$ STD DEV $=3.6$ RESULTANT $=8.1$ fROM 359 . CONSTANCY $=0.93$ maX $=26.3$ FROM 15. AT 520 GMT DAY 5
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ HINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllllll}\text { PERCENT: } & 1 & 5 & 18 & 24 & 26 & 11 & 8 & 3 & 4 & 1 & & 1 & 0 & 0 & 0 & \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT
$\begin{array}{llllllllllllllll}62 & 16 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 3 & 6 & 11\end{array}$

MAY 97
HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 871 & -32 & 5 & 284\end{array}$
$\begin{array}{lllll}03 & 873 & -33 & 5 & 306\end{array}$
$\begin{array}{lllll}06 & 874 & -32 & 6 & 338\end{array}$
$\begin{array}{lllll}09 & 873 & -31 & 7 & 2\end{array}$
$\begin{array}{lllll}12 & 871 & -32 & 12 & 4\end{array}$
$\begin{array}{lllll}15 & 868 & -32 & 10 & 15\end{array}$
$\begin{array}{lllll}18 & 863 & -26 & 17 & 5\end{array}$
$\begin{array}{llll}21 & 861 & -20 & 13 \\ 357\end{array}$ DAY 8
$\begin{array}{lllll}00 & 852 & -39 & 13 & 21\end{array}$
$\begin{array}{lllll}03 & 853 & -40 & 9 & 15\end{array}$
$\begin{array}{lllll}06 & 853 & -42 & 12 & 4\end{array}$
$\begin{array}{lllll}09 & 853 & -44 & 13 & 5\end{array}$
$\begin{array}{lllll}12 & 853 & -44 & 11 & 360\end{array}$
$\begin{array}{lllll}15 & 853 & -43 & 10 & 12\end{array}$
$\begin{array}{lllll}18 & 853 & -44 & 10 & 2\end{array}$
$\begin{array}{lllll}21 & 853 & -45 & 11 & 12\end{array}$
DAY 15
$\begin{array}{lllll}00 & 872 & -36 & 12 & 12\end{array}$
$\begin{array}{lllll}03 & 871 & -33 & 13 & 9\end{array}$
$\begin{array}{lllll}06 & 868 & -28 & 16 & 15\end{array}$
$\begin{array}{lllll}09 & 866 & -22 & 15 & 15\end{array}$
$\begin{array}{lllll}12 & 863 & -18 & 16 & 9\end{array}$
$\begin{array}{lllll}15 & 864 & -16 & 14 & 354\end{array}$
$\begin{array}{lllll}18 & 867 & -13 & 8 & 343\end{array}$
$\begin{array}{llll}21 & 871 & -14 \quad 9 & 345\end{array}$ DAY 22
$\begin{array}{lllll}00 & 859 & -35 & 9 & 11\end{array}$
$\begin{array}{lllll}03 & 857 & -41 & 10 & 12\end{array}$
$\begin{array}{lllll}06 & 855 & -38 & 9 & 4\end{array}$
$\begin{array}{lllll}09 & 853 & -34 & 10 & 11\end{array}$
$\begin{array}{lllll}12 & 850 & -30 & 13 & 9\end{array}$
$\begin{array}{lllll}15 & 849 & -29 & 13 & 8\end{array}$
$\begin{array}{lllll}18 & 846 & -27 & 13 & 11\end{array}$
$\begin{array}{lllll}21 & 843 & -22 & 13 & 9\end{array}$ DAY 29
$\begin{array}{lllll}00 & 844 & -14 & 6 & 12\end{array}$
$\begin{array}{lllll}03 & 843 & -18 & 4 & 319\end{array}$
$06 \quad 844-19 \quad 9327$
$09 \quad 847-2312246$
$\begin{array}{lllll}12 & 849 & -25 & 10 & 355\end{array}$
$\begin{array}{lllll}15 & 852 & -24 & 10 & 354\end{array}$
$\begin{array}{lllll}18 & 853 & -24 & 8 & 347\end{array}$
$\begin{array}{llll}21 & 856 & -21 & 6 \\ 357\end{array}$

PP TT VV DD PP TT VV DD DAY 2
860-15 9351
858-15 $10 \quad 340$
$857-17-934$
857-16 7341
857-20 5360
$858-28 \quad 3 \quad 30$
$859-29 \quad 7355$
$859-27 \quad 9 \quad 4$ DAY 9
$\begin{array}{llll}852 & -44 & 11 & 9\end{array}$
$\begin{array}{llll}851 & -41 & 8 & 19\end{array}$
$\begin{array}{llll}850 & -39 & 9 & 19\end{array}$
848-39 9 25
$\begin{array}{llllllll}848 & -39 & 6 & 22 & 847 & -42 & 9 & 2\end{array}$
$\begin{array}{llllllll}847 & -39 & 7 & 25 & 848 & -43 & 9 & 360\end{array}$
$\begin{array}{llllllll}846 & -37 & 5 & 23 & 848 & -41 & 10 & 12\end{array}$
$\begin{array}{llllllll}846 & -39 & 7 & 5 & 848 & -39 & 12 & 358\end{array}$ DAY 16
871-20 $11 \quad 1$
870-17 14360
866-14 1415
$\begin{array}{llll}864 & -13 & 19 & 1\end{array}$
867-14 15352
870-18 9355
$\begin{array}{llll}873 & -20 & 9 & 347\end{array}$
$877-22 \quad 8 \quad 1$ DAY 23
$\begin{array}{llll}837 & -22 & 17 & 16\end{array}$
$\begin{array}{llll}837 & -27 & 8 & 317\end{array}$
$842-3212299$
847-31 9351
$851-23 \quad 8326$
$856-2111322$
860-26 115
$860-21 \quad 16 \quad 12$ DAY 30
858-24 9343
860-24 7350
861 -24 7341
863-27 6360
$864-25 \quad 7344$
$865-26 \quad 9338$
$865-25 \quad 10338$
867-26 8331

DAY 3
858-30 $10 \quad 12$
$\begin{array}{llll}856 & -26 & 14 & 2\end{array}$
853-22 159
$\begin{array}{llll}853 & -21 & 13 & 5\end{array}$
853-21 12360
$\begin{array}{llll}851 & -19 & 16 & 12\end{array}$
$\begin{array}{llll}849 & -18 & 14 & 7\end{array}$
845-14 17358
DAY 10
$\begin{array}{llll}847 & -41 & 8 & 7\end{array}$
847-44 7355
$\begin{array}{llll}848 & -43 & 2 & 30\end{array}$
$\begin{array}{llll}847 & -42 & 9 & 8\end{array}$
$\begin{array}{rrrr}847 & -42 & 9 & 2 \\ 848 & -43 & 9 & 360\end{array}$
$848-391235$
DAY 17
$\begin{array}{llll}878 & -24 & 9\end{array}$
$\begin{array}{llll}878 & -22 & 9 & 9\end{array}$
876-19 11360
875-19 $12 \quad 4$
874-19 11360
$\begin{array}{lllll}872 & -19 & 11 & 7\end{array}$
$\begin{array}{llll}870 & -17 & 13 & 19\end{array}$
867-16 14355
DAY 24
$\begin{array}{llll}860 & -21 & 12 & 7\end{array}$
$\begin{array}{llll}858 & -23 & 10 & 358\end{array}$
$\begin{array}{llll}860 & -23 & 11 & 4\end{array}$
862-23 11337
$\begin{array}{llll}864 & -24 & 841\end{array}$
$\begin{array}{llll}863 & -25 & 6 & 19\end{array}$
$860-20 \quad 7360$
861-23 9348

## DAY 31

868-26 10320
869-25 10316
$871-25 \quad 8317$
872-24 10313
$873-24 \quad 6333$
$\begin{array}{llll}874 & -26 & 7336\end{array}$
$\begin{array}{llll}874 & -30 & 7 & 354\end{array}$
$\begin{array}{llll}874 & -33 & 9 & 7\end{array}$

PP TT VV DD DAY 4
847-16 16348
$849-19 \quad 15355$
$850-1914354$
$851-20 \quad 5327$
$848-20 \quad 13355$
$846-20 \quad 16358$
$846-21 \quad 8341$
$850-27 \quad 8298$
DAY 11
$850-41 \quad 8352$
851-43 95
$852-437360$
$854-4410355$
$856-44 \quad 9360$
$857-4410360$
$858-44 \quad 9357$
$859-45 \quad 9355$ DAY 18
864-14 20357
$860-1519 \quad 2$
$\begin{array}{llll}861 & -16 & 15 & 1\end{array}$
$\begin{array}{llll}859 & -16 & 14 & 360\end{array}$
858-19 $13 \quad 2$
857-17 9358
858-18 10333
$859-17 \quad 8 \quad 344$ DAY 25
863-24 8360
862-21 $10 \quad 2$
861-19 $10 \quad 7$
$858-1313 \quad 360$
858-10 14360
$\begin{array}{llll}858 & -13 & 14 & 2\end{array}$
856-12 17354
853-12 204
$\begin{array}{rrrr}\text { PP } & \text { TT } & \text { VV } & \text { DD } \\ \text { DAY } & 5 & \\ 853 & -32 & 7 & 334 \\ 855 & -35 & 8 & 4 \\ 856 & -38 & 10 & 2 \\ 857 & -39 & 11 & 4 \\ 857 & -40 & 11 & 2 \\ 857 & -40 & 10 & 2 \\ 857 & -41 & 11 & 1 \\ 856 & -41 & 10 & 11\end{array}$
DAY 12
860-44 9360
$\begin{array}{llll}861 & -46 & 8 & 2\end{array}$
861 -47 9355
862-48 9 5
$861-48 \quad 10 \quad 360$
$\begin{array}{llll}861 & -48 & 10 & 2\end{array}$
$\begin{array}{llll}862 & -48 & 9 & 4\end{array}$
$\begin{array}{llll}861 & -48 & 9 & 7\end{array}$
DAY 19
860-21 8
861-21 5360
$860-256360$
859-28 $7 \quad 5$
$\begin{array}{llll}858 & -32 & 7 & 2\end{array}$
858-34 6358
857-33 5334
858-32 4,312 DAY 26
855-14 13324
860-18 14340
865-19 12347
869-21 10360
$\begin{array}{llll}870 & -20 & 12 & 5\end{array}$
870-18 $\quad 9 \quad 11$
868-16 9 9
868-17 14347

PP TT VV DD DAY 6
$\begin{array}{llll}856 & -41 & 9 & 5\end{array}$
$\begin{array}{llll}855 & -42 & 9 & 4\end{array}$
854-41 10360
$\begin{array}{llll}852 & -41 & 10 & 14\end{array}$
$\begin{array}{llll}850 & -42 & 10 & 7\end{array}$
$\begin{array}{llll}848 & -41 & 11 & 23\end{array}$
$\begin{array}{llll}846 & -41 & 10 & 14\end{array}$
$\begin{array}{llll}845 & -39 & 12 & 5\end{array}$

## DAY 13

$\begin{array}{llll}862 & -48 & 9 & 2\end{array}$
$\begin{array}{llll}861 & -47 & 10 & 11\end{array}$
$\begin{array}{llll}860 & -48 & 10 & 1\end{array}$
$\begin{array}{llll}860 & -47 & 9 & 8\end{array}$
$860-4710360$
861 -47 $8 \quad 2$
$861-4711360$
862-46 102

## DAY 20

$860-306302$
862-29 6284
$864-28 \quad 7281$
$\begin{array}{llll}866 & -28 & 7 & 307\end{array}$
867-29 6 306
$\begin{array}{llll}869 & -30 \quad 6319\end{array}$
$870-32 \quad 7354$
$870-35 \quad 9357$ DAY 27
$\begin{array}{llll}868 & -17 & 14 & 1\end{array}$
869-16 11351
$\begin{array}{llll}872 & -17 & 9 & 2\end{array}$
873-15 $13 \quad 360$
873-12 $10 \quad 9$
$\begin{array}{llll}870 & -14 & 8 & 52\end{array}$
$\begin{array}{llll}865 & -12 & 13 & 35\end{array}$
$\begin{array}{llll}860 & -11 & 15 & 15\end{array}$

PP TT VV DD DAY 7
$\begin{array}{llll}845 & -40 & 11 & 357\end{array}$
846 -39 10351
$\begin{array}{llll}847 & -39 & 8 & 18\end{array}$
$\begin{array}{llll}846 & -35 & 12 & 21\end{array}$
$\begin{array}{llll}846 & -32 & 12 & 18\end{array}$
$\begin{array}{llll}848 & -34 & 16 & 11\end{array}$
$\begin{array}{llll}851 & -35 & 11 & 9\end{array}$
$\begin{array}{llll}851 & -37 & 14 & 11\end{array}$
DAY 14
$\begin{array}{llll}863 & -46 & 12 & 1\end{array}$
864-45 $11 \quad 2$
$\begin{array}{llll}865 & -44 & 11 & 5\end{array}$
$\begin{array}{llll}867 & -43 & 12 & 1\end{array}$
$\begin{array}{llll}869 & -41 & 11 & 4\end{array}$
$870-40114$
$\begin{array}{llll}871 & -39 & 9 & 360\end{array}$
$\begin{array}{ccc}872 & -38 & 13 \quad 2\end{array}$
DAY 21
$\begin{array}{llll}870 & -36 & 7 & 1\end{array}$
$\begin{array}{llll}870 & -38 & 7 & 8\end{array}$
$\begin{array}{llll}868 & -38 & 7 & 357\end{array}$
867-37 7360
$\begin{array}{llll}866 & -34 \quad 5 & 360\end{array}$
$\begin{array}{llll}863 & -38 & 9 & 12\end{array}$
$\begin{array}{llll}862 & -37 & 9 & 4\end{array}$
860-31 $\quad 8 \quad 358$ DAY 28
859-16 $14 \quad 1$
858-10 $15 \quad 5$
857-12 $15 \quad 12$
$\begin{array}{llll}857 & -11 & 17 & 15\end{array}$
$\begin{array}{llll}854 & -11 & 17 & 5\end{array}$
$\begin{array}{llll}851 & -10 & 12 & 14\end{array}$
849-11 $10 \quad 21$
847-13 $10 \quad 32$

* TEMPERATURE (C) * MEAN $=-28.8$ STD DEV $=11.0$ MAX $=-10.1$ AT 300 GMT ON DAY 28 MIN $=-48.6$ AT 1810 GMT ON DAY 12
* THETA (K) * MEAN $=255.24$
* PRESSURE (MB) * MEAN $=858.9$ STD DEV $=8.7$ MAX $=878.5$ AT 2330 GMT ON DAY 16 MIN $=835.4$ AT 110 GMT ON DAY 23
* WINDS (M/S) * MEAN $=10.2$ STD DEV $=3.2$ RESULTANT $=9.7$ FROM 359. CONSTANCY $=0.95$ MAX $=25.9$ FROM 1. AT 50 GMT DAY 18
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 63 & 16 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 6 & 12\end{array}$

JUN 97
$\begin{array}{lllll}\text { HR } & \text { PP } & \text { TT VV } & \text { DD } \\ & \text { DAY } & 1 & \end{array}$ 00
$\begin{array}{lllll}03 & 872 & -32 & 13 & 15\end{array}$
$\begin{array}{lllll}06 & 871 & -30 & 12 & 5\end{array}$
$\begin{array}{lllll}09 & 869 & -27 & 13 & 1\end{array}$
$\begin{array}{lllll}12 & 866 & -25 & 13 & 358\end{array}$
$\begin{array}{lllll}15 & 865 & -24 & 13 & 354\end{array}$
$\begin{array}{lllll}18 & 865 & -28 & 11 & 348\end{array}$
$\begin{array}{llll}21 & 866 & -29 & 10 \\ 355\end{array}$
DAY 8
$\begin{array}{lllll}00 & 872 & -16 & 10 & 333\end{array}$
$\begin{array}{llllll}03 & 873 & -16 & 10 & 323\end{array}$
$\begin{array}{lllll}06 & 876 & -17 & 7 & 336\end{array}$
$\begin{array}{lllll}09 & 876 & -23 & 8 & 9\end{array}$
$\begin{array}{lllll}12 & 873 & -22 & 7 & 23\end{array}$
$\begin{array}{lllll}15 & 867 & -18 & 13 & 23\end{array}$
$\begin{array}{lllll}18 & 861 & -14 & 18 & 18\end{array}$
21 856-11 22360 DAY 15
$00 \quad 877-20 \quad 8291$
$\begin{array}{llll}03 & 880 & -21 & 7 \\ 309\end{array}$
$\begin{array}{llll}06 & 882 & -23 & 6 \\ 344\end{array}$
$\begin{array}{lllll}09 & 884 & -22 & 7 & 322\end{array}$
$\begin{array}{lllll}12 & 884 & -25 & 8 & 347\end{array}$
$\begin{array}{llll}15 & 883 & -24 & 9\end{array} 331$
$\begin{array}{lllll}18 & 882 & -23 & 6 & 323\end{array}$
$\begin{array}{lllll}21 & 882 & -25 & 7 & 343\end{array}$ DAY 22
$\begin{array}{lllll}00 & 891 & -24 & 11 & 4\end{array}$
$\begin{array}{lllll}03 & 891 & -27 & 11 & 12\end{array}$
$\begin{array}{lllll}06 & 890 & -28 & 13 & 14\end{array}$
$\begin{array}{lllll}09 & 889 & -28 & 14 & 19\end{array}$
$\begin{array}{lllll}12 & 888 & -27 & 11 & 14\end{array}$
$\begin{array}{lllll}15 & 885 & -28 & 14 & 4\end{array}$
$\begin{array}{lllll}18 & 883 & -29 & 15 & 11\end{array}$
$\begin{array}{lllll}21 & 881 & -29 & 13 & 12\end{array}$ DAY 29
$\begin{array}{lllll}00 & 881 & -36 & 8 & 11\end{array}$
$\begin{array}{lllll}03 & 880 & -35 & 8 & 7\end{array}$
$\begin{array}{llllll}06 & 878 & -33 & 11 & 8\end{array}$
$\begin{array}{lllll}09 & 876 & -31 & 11 & 2\end{array}$
$\begin{array}{lllll}12 & 875 & -27 & 8 & 348\end{array}$
$\begin{array}{lllll}15 & 875 & -27 & 8 & 338\end{array}$
$\begin{array}{lllll}18 & 875 & -27 & 7 & 348\end{array}$
$\begin{array}{llll}21 & 874 & -28 & 9 \\ 357\end{array}$

PP TT WV DD DAY 3
873-33 8345
$\begin{array}{llll}874 & -32 & 7 & 360\end{array}$
$\begin{array}{llll}875 & -32 & 9 & 5\end{array}$
$\begin{array}{llll}875 & -31 & 9 & 4\end{array}$
$\begin{array}{llll}875 & -30 & 9 & 1\end{array}$
875 -30 11360
$\begin{array}{llll}875 & -31 & 9 & 1\end{array}$
$874-31115$
DAY 10
865-20 10360
866-17 $10 \quad 340$
868-17 11354
868-15 11358
870-14 12351
871 - 1312333
871 -13 11343
$\begin{array}{llll}872 & -14 & 8 & 350\end{array}$ DAY 17
864-18 $8 \quad 312$
866-18 11303
866-19 $\quad 8 \quad 343$
866-22 7360
868-24 6329
$\begin{array}{llll}871 & -27 & 7 & 351\end{array}$
$\begin{array}{llll}873 & -23 & 6 & 5\end{array}$
$\begin{array}{llll}873 & -23 & 8 & 16\end{array}$ DAY 24
$\begin{array}{llll}875 & -28 & 631\end{array}$
877-28 6340
$879-28 \quad 5334$
$880-28 \quad 7330$
$\begin{array}{llll}881 & -31 & 6 & 336\end{array}$
$\begin{array}{llll}881 & -30 & 5 & 330\end{array}$
$\begin{array}{llll}881 & -28 & 5 & 338\end{array}$
881-29 7326

PP TT VV DD DAY 4
$\begin{array}{lll}874 & -30 & 11 \quad 4\end{array}$
872-29 $11 \quad 2$
$871-2814 \quad 1$
869-28 $12 \quad 4$
867-24 $13 \quad 4$
866-23 10355
865-24 12358
866-22 10360
DAY 11
872-16 9360
871 - 1310345
$870-1310358$
870-12 14360
869 -11 12344
870-12 12357
870-12 13348
871-13 12352

## DAY 18

873-21 6358
$\begin{array}{llll}874 & -17 & 7 & 307\end{array}$
$\begin{array}{lll}876 & -16 & 5 \\ 324\end{array}$
877-17 4330
878-18 $\quad 5360$
$\begin{array}{llll}877 & -22 & 7 & 15\end{array}$
$\begin{array}{llll}877 & -23 & 9 & 1\end{array}$
$\begin{array}{llll}877 & -24 & 10 & 7\end{array}$
DAY 25
882-29 5315
$\begin{array}{llll}882 & -31 & 7334\end{array}$
883-32 7341
$883-31 \quad 6323$
$884-27 \quad 6315$
$\begin{array}{llll}884 & -28 & 6 & 326\end{array}$
$\begin{array}{llll}884 & -30 & 7 & 317\end{array}$
$883-29 \quad 7337$

PP TT WV DD PP TTVV DD DAY 5
866-20 11274
867-19 11351
868-20 14358
868-21 117
868-19 16360
869-20 14360
869-19 $14 \quad 1$
870 -18 13355
DAY 12
871-12 11351
$870-1410360$
868 -13 $10 \quad 2$
867-13 12360
$867-1315355$
$866-1313360$
$\begin{array}{llll}864 & -9 & 18 & 4\end{array}$
862-10 $16 \quad 19$
DAY 19
877-24 9 357
878 -21 8357
880-19 6341
881-14 $\quad 2333$
881-13 0 0

879-17 1347
879-22 4360 DAY 26
$\begin{array}{ccc}882 & -25 & 7337\end{array}$
882-25 6340
$880-24 \quad 7347$
879-23 6343
$878-23 \quad 5324$

| 878 | -25 | 5 |
| :--- | :--- | :--- |

879 -27 4300
880 -28 3326

DAY 6
872-20 9354
874 -20 11357
874 -21 $10 \quad 4$
874-19 $13 \quad 8$
872-15 $14 \quad 8$
868-14 235
$\begin{array}{llll}865 & -11 & 23 & 1\end{array}$
863-10 248
DAY 13
860-11 1212
$859-1314354$
860-16 13344
863-17 13358
866-18 14360
866-16 $13 \quad 8$
865-15 14360
862-13 $22 \quad 1$
DAY 20
879-20 5
$\begin{array}{llll}879 & -23 & 5 & 14\end{array}$
$\begin{array}{llll}880 & -24 & 6 & 11\end{array}$
$\begin{array}{llll}879 & -23 & 6\end{array}$
$\begin{array}{lllll}880 & -23 & 12 & 15\end{array}$
$\begin{array}{llll}879 & -23 & 11 & 18\end{array}$
$\begin{array}{llll}877 & -22 & 16 & 5\end{array}$
878-20 135
DAY 27
$\begin{array}{lll}881 & -28 & 2323\end{array}$
$\begin{array}{llll}881 & -30 & 3 & 347\end{array}$
$\begin{array}{llll}881 & -32 & 2 & 26\end{array}$
$\begin{array}{llll}881 & -36 & 5 & 4\end{array}$
$\begin{array}{llll}881 & -36 & 6 & 360\end{array}$
$\begin{array}{llll}881 & -37 & 7 & 5\end{array}$
$\begin{array}{llll}881 & -37 & 8 & 5\end{array}$
$\begin{array}{llll}881 & -38 & 8 & 2\end{array}$

PP TT WV DD DAY 7
863-12 19351
866-13 15344
867-15 15360
868-14 17351
870 -13 18343
871 -14 14358
871 - 1413352
870-15 11343
DAY 14
859-13 $23 \quad 1$ 856-14 19 8
856-18 14358
855-20 1199
$857-21 \quad 9354$
862-22 8292
867-22 7298
872 -20 10296

## DAY 21

878-21 16
$879-2314$
$881-2213$
$884-2310$
$\begin{array}{rrrr}886 & -20 & 12 & 8 \\ 887 & -20 & 15 & 11\end{array}$
$\begin{array}{llll}888 & -21 & 15 & 9\end{array}$
889 -23 14
DAY 28
$\begin{array}{lll}881 & -38 \quad 7\end{array}$
$\begin{array}{llll}881 & -38 & 8 & 5\end{array}$
$\begin{array}{lll}881 & -38 & 7\end{array}$
$\begin{array}{llll}881 & -39 & 8 & 11\end{array}$
$\begin{array}{llll}882 & -39 & 7 & 2\end{array}$
$\begin{array}{lll}881 & -38 & 7\end{array}$
$\begin{array}{lll}881 & -38 & 7\end{array}$
$\begin{array}{llll}881 & -37 & 8\end{array}$


* TEMPERATURE ( $C$ ) * MEAN $=-23.3$ STD DEV $=7.4$ MAX $=-8.4$ AT 1920 GMT ON DAY 12 MIN $=-38.6$ AT 750 GMT ON DAY 28
* THETA (K) * MEAN $=259.78$
* PRESSURE (MB) * MEAN $=873.1$ STD DEV $=7.9$ MAX $=891.3$ AT 30 GMT ON DAY 22 MIN $=851.0$ at 10 GMT ON DAY 9
* WINDS (M/S) * MEAN $=10.0$ STD DEV $=4.1$ RESULTANT $=9.5$ FROM 356. CONSTANCY $=0.95$ MAX $=27.7$ FROM 5. AT 2010 GMT DAY 6
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.8 \%$ PRESSURE: $0.8 \%$ WINDS: $0.8 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW USW $W$ WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 59 & 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 8 & 21\end{array}$

JUL 97
HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 867 & -23 & 13 \\ 336\end{array}$
$\begin{array}{llllll}03 & 868 & -24 & 13 & 347\end{array}$
$\begin{array}{llll}06 & 869 & -24 & 9 \\ 351\end{array}$
$\begin{array}{lllll}09 & 868 & -25 & 11 & 1\end{array}$
$\begin{array}{lllll}12 & 867 & -21 & 12 & 1\end{array}$
$\begin{array}{lllll}15 & 866 & -18 & 11 & 358\end{array}$
$\begin{array}{lllll}18 & 866 & -20 & 15 & 360\end{array}$
$\begin{array}{llll}21 & 866 & -19 & 954\end{array}$

## DAY 8

$\begin{array}{lllll}00 & 870 & -9 & 19 & 286\end{array}$ $\begin{array}{lllll}03 & 872 & -9 & 15 & 360\end{array}$ $\begin{array}{lllll}06 & 870 & -11 & 24 & 358\end{array}$ $\begin{array}{lllll}09 & 872 & -15 & 20 & 7\end{array}$ $\begin{array}{lllll}12 & 871 & -16 & 17 & 1\end{array}$ $\begin{array}{lllll}15 & 871 & -17 & 19 & 352\end{array}$ $\begin{array}{lllll}18 & 873 & -18 & 10 & 305\end{array}$
$\begin{array}{lllll}21 & 878 & -24 & 11 & 305\end{array}$ DAY 15
$00 \quad 856$-28 9327
$\begin{array}{lllll}03 & 859 & -29 & 7 & 322\end{array}$
$\begin{array}{lllll}06 & 861 & -25 & 6 & 338\end{array}$
$\begin{array}{lllll}09 & 862 & -22 & 7 & 337\end{array}$
$\begin{array}{lllll}12 & 863 & -28 & 6 & 19\end{array}$
$\begin{array}{lllll}15 & 863 & -25 & 8 & 5\end{array}$
$\begin{array}{lllll}18 & 863 & -31 & 7 & 5\end{array}$
$\begin{array}{lllll}21 & 862 & -31 & 9 & 1\end{array}$

$$
\text { DAY } 22
$$

$\begin{array}{lllll}00 & 869 & -45 & 7 & 2\end{array}$
$\begin{array}{lllll}03 & 868 & -44 & 8 & 360\end{array}$
$\begin{array}{lllll}06 & 867 & -39 & 10 & 354\end{array}$
$\begin{array}{llllll}09 & 866 & -40 & 10 & 355\end{array}$
$\begin{array}{lllll}12 & 864 & -39 & 11 & 5\end{array}$
$\begin{array}{lllll}15 & 862 & -36 & 12 & 9\end{array}$
$\begin{array}{lllll}18 & 858 & -34 & 12 & 360\end{array}$
$\begin{array}{lllll}21 & 857 & -33 & 11 & 2\end{array}$
DAY 29
$\begin{array}{lllll}00 & 862 & -36 & 8 & 330\end{array}$
$\begin{array}{llll}03 & 860 & -36 & 9 \\ 341\end{array}$
$\begin{array}{llll}06 & 857 & -36 & 9 \\ 341\end{array}$
$\begin{array}{lllll}09 & 855 & -34 & 8 & 97\end{array}$
$\begin{array}{lllll}12 & 852 & -36 & 8 & 360\end{array}$
$\begin{array}{lllll}15 & 850 & -38 & 6 & 2\end{array}$
$\begin{array}{lllll}18 & 849 & -37 & 6 & 350\end{array}$
$\begin{array}{lllll}21 & 850 & -38 & 4 & 312\end{array}$

PP TT WV DD PP TT WV DD

$$
\text { DAY } 2
$$

866-23 13355
868 -22 10326
870 -22 8343
872-21 9344
873-22 9355
$\begin{array}{llll}872 & -21 & 12 & 12\end{array}$
870-16 $18 \quad 343$
868-17 1614
DAY 9
881 -25 6334
881 -28 6360
$\begin{array}{llll}879 & -30 & 7 & 21\end{array}$
$\begin{array}{lllll}876 & -31 & 10 & 2\end{array}$
875 -32 9360
$\begin{array}{llll}874 & -31 & 7 & 360\end{array}$
$\begin{array}{llll}872 & -32 & 10 & 12\end{array}$
869-31 $11 \quad 2$

## DAY 16

863-32 9358
864-31 9358
$\begin{array}{llll}865 & -31 & 9 & 9\end{array}$
867-31 $10 \quad 4$
867-31 $10 \quad 12$
$\begin{array}{llll}867 & -32 & 9 & 14\end{array}$
$\begin{array}{llll}867 & -33 & 10 & 9\end{array}$
$866-34 \quad 10 \quad 4$ DAY 23
855-29 9 360
853-24 7351
852-22 7337
854-21 6315
$857-229285$
$\begin{array}{llll}861 & -25 & 10 & 310\end{array}$
$\begin{array}{llll}864 & -27 & 9 & 319\end{array}$
868-29 8324
DAY 30
851-41 8282
853-46 6 296
855-45 $\quad 5 \quad 313$
854-47 7330
$\begin{array}{llll}854 & -48 & 7 & 358\end{array}$
$\begin{array}{llll}850 & -47 & 8 & 11\end{array}$
$\begin{array}{llll}847 & -46 & 10 & 7\end{array}$
$\begin{array}{llll}845 & -43 & 8 & 11\end{array}$

DAY 3
865-14 22 9
863-15 228
863-14 15360
863-15 $14 \quad 9$
863-17 $12 \quad 1$
864-17 11360
866 -20 14338
869 -23 12345
DAY 10
866-31 $12 \quad 5$
862-29 $12 \quad 11$
$857-2714 \quad 8$
853-26 $11 \quad 9$
847-25 $14 \quad 8$
$\begin{array}{llll}841 & -21 & 14\end{array}$
835-17 $13 \quad 360$
$830-1713355$

## DAY 17

864-35 118
862-35 $12 \quad 4$
$\begin{array}{llll}861 & -33 & 13 & 1\end{array}$
$\begin{array}{llll}860 & -31 & 13 & 8\end{array}$
$\begin{array}{llll}858 & -30 & 13 & 22\end{array}$
857-27 $11 \quad 5$
857-28 $9 \quad 5$
857-30 916

## DAY 24

$\begin{array}{llll}871 & -31 & 7313\end{array}$
$\begin{array}{llll}874 & -31 & 7 & 319\end{array}$
$\begin{array}{llll}875 & -33 & 8 & 310\end{array}$
$\begin{array}{llll}877 & -36 & 5 & 358\end{array}$
$877 \quad-38 \quad 6357$
$\begin{array}{llll}876 & -40 & 7 & 19\end{array}$
872-39 $11 \quad 4$
$\begin{array}{llll}870 & -36 & 11 & 8\end{array}$ DAY 31
846 -42 8360
$848-41 \quad 6351$
852-41 7324
856-42 6338
$860-42 \quad 7333$
863-44 8355
865-44 $10 \quad 1$

PP TT WV DD PP TT WV DD PP TT VV DD DAY 4
872-25 10355
874-25 11350
$877-25 \quad 9350$
$879-26 \quad 8355$
881 -28 9350
$882-3010360$
$\begin{array}{llll}881 & -31 & 10 & 16\end{array}$
$\begin{array}{llll}878 & -29 & 10 \quad 19\end{array}$ DAY 11
829-20 9 330
$831-2111331$
834-22 11306
$839-2410296$
845-29 11307
$\begin{array}{llll}850 & -30 & 8 & 312\end{array}$
$\begin{array}{llll}855 & -30 & 6 & 333\end{array}$
$858-28 \quad 5309$ DAY 18
$\begin{array}{llll}858 & -31 & 7 & 358\end{array}$
$\begin{array}{llll}858 & -34 & 9 & 340\end{array}$
$859-37 \quad 9337$
$859-38 \quad 9 \quad 350$
$860-39 \quad 8 \quad 352$
860-39 $10 \quad 360$
$\begin{array}{llll}860 & -39 & 7 & 8\end{array}$
860-38 9360
DAY 25
867-28 $10 \quad 2$
864-21 8355
861-17 7352
860-14 9309
857-15 9 337
855-13 11309
856-19 $13 \quad 300$
$859-2413293$
$\begin{array}{llll} & \text { DAY } & 5 & \\ 875 & -22 & 5 & 23 \\ 869 & -20 & 8 & 21 \\ 865 & -19 & 6 & 347 \\ 861 & -18 & 8 & 323 \\ 862 & -23 & 9 & 319 \\ 864 & -26 & 9 & 319 \\ 868 & -24 & 6 & 333 \\ 870 & -27 & 6 & 14\end{array}$

## DAY 12

861-28 2270
864-29 2188
865-31 3165
866-31 3185
868-32 3219
870-32 4262
$\begin{array}{llll}872 & -33 & 5 & 288\end{array}$
$\begin{array}{llll}875 & -36 & 4 & 344\end{array}$ DAY 19
$\begin{array}{llll}861 & -38 & 10 & 1\end{array}$
$\begin{array}{llll}860 & -36 & 12 & 4\end{array}$
$\begin{array}{llll}862 & -38 & 12 & 357\end{array}$
$\begin{array}{llll}863 & -39 & 10 & 1\end{array}$
$864-3913 \quad 354$
$\begin{array}{llll}866 & -37 & 9 & 1\end{array}$
$\begin{array}{llll}866 & -36 & 11 & 360\end{array}$
$\begin{array}{llll}866 & -39 & 12 & 4\end{array}$
DAY 26
862-28 9298
864-29 9316
866-28 8303
$\begin{array}{llll}868 & -29 & 8 & 345\end{array}$
869-28 6337
868-29 $6 \quad 12$
865-28 $6 \quad 25$
863-29 5345

DAY 6
869-28 $12 \quad 21$
$\begin{array}{llll}868 & -26 & 11 & 11\end{array}$
867-21 $12 \quad 4$
863-19 $14 \quad 9$
$862-1414357$
861-15 12360
862-12 17341
864-12 13360
DAY 13
876-37 6354
$\begin{array}{llll}876 & -37 & 7 & 18\end{array}$
$\begin{array}{llll}873 & -35 & 11 & 11\end{array}$
$\begin{array}{llll}870 & -33 & 12 & 9\end{array}$
867-34 $11 \quad 5$
$\begin{array}{llll}864 & -34 & 11 & 12\end{array}$
860-32 $11 \quad 9$
855-27 $12 \quad 18$
DAY 20
867-41 $12 \quad 8$
866-40 $14 \quad 14$
864-40 $13 \quad 8$
863-40 $12 \quad 14$
862-38 $13 \quad 11$
$\begin{array}{llll}860 & -40 & 12 & 19\end{array}$
860-39 $\quad 13 \quad 16$
$859-40 \quad 12 \quad 22$
DAY 27
863-29 5315
864-28 6316
865-29 5302
$\begin{array}{lll}866 & -31 & 6322\end{array}$
$\begin{array}{llll}867 & -32 & 6 & 327\end{array}$
$\begin{array}{llll}868 & -33 & 5 & 322\end{array}$
869-37 6340
$\begin{array}{llll}870 & -38 & 5 & 341\end{array}$

PP TTV DD DAY 7
867-11 12357
868-10 12358
868-11 $12 \quad 1$
867-10 13360
$866-8 \quad 16355$
$\begin{array}{llll}867 & -7 & 14 & 2\end{array}$
$\begin{array}{llll}869 & -6 & 11 & 360\end{array}$
$870-6 \quad 15 \quad 360$ DAY 14
850-22 $14 \quad 9$
844-21 15360
840 -21 17360
839-18 13354
840-17 9333
842-20 13315
$\begin{array}{llll}846 & -24 & 9 & 309\end{array}$
$850-2413307$
DAY 21
$\begin{array}{llll}859 & -39 & 13 & 11\end{array}$
860-41 $13 \quad 4$
862-42 9312
863-45 7360
865-46 9358
867-46 7344
868-45 6358
868 -45 9358 DAY 28
$\begin{array}{llll}871 & -38 & 6338\end{array}$
$\begin{array}{llll}871 & -39 & 7 & 354\end{array}$
$\begin{array}{llll}869 & -38 & 7340\end{array}$
867-38 9 355
$\begin{array}{llll}864 & -38 & 8 & 4\end{array}$
$\begin{array}{llll}864 & -34 & 5 & 324\end{array}$
$\begin{array}{llll}864 & -34 & 7 & 313\end{array}$

* TEMPERATURE (C)* MEAN $=-29.1$ STD dev $=9.5$ MAX $=-5.4$ AT 1920 GMT ON DAY 7 MIN $=-48.4$ AT 1220 GMt ON DAY 30
* theta (K) * MEAN = 254.57
* PRESSURE (MB) * MEAN $=862.9$ STD DEV $=9.4$ MAX $=881.6$ at 1310 GMT ON DAY 4 MIN $=828.2$ at 2250 GMT ON DAY 10
* WINDS (M/S) * MEAN $=9.8$ STD DEV $=3.5$ RESULTANT $=8.9$ FROM 352. CONSTANCY $=0.91$ MAX $=25.5$ FROM 360. AT 610 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$


$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 53 & 10 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 4 & 14 & 15\end{array}$

AUG 97 HR $\begin{array}{rrrrr} & & \text { DAY } & 1 & \\ 00 & 866 & -42 & 12 & 8 \\ 03 & 864 & -34 & 8 & 19 \\ 06 & 860 & -26 & 10 & 9 \\ 09 & 858 & -17 & 10 & 343 \\ 12 & 856 & -13 & 11 & 330 \\ 15 & 857 & -11 & 10 & 324 \\ 18 & 859 & -12 & 11 & 324 \\ 21 & 861 & -13 & 9 & 350\end{array}$ DAY 8
$\begin{array}{lllll}00 & 844 & -39 & 9 & 29\end{array}$ $\begin{array}{lllll}03 & 837 & -30 & 14 & 32\end{array}$ $\begin{array}{lllll}06 & 834 & -28 & 9 & 68\end{array}$ $\begin{array}{lllll}09 & 826 & -18 & 22 & 32\end{array}$ $\begin{array}{lllll}12 & 824 & -17 & 24 & 36\end{array}$ $\begin{array}{lllll}15 & 826 & -19 & 23 & 26\end{array}$ $\begin{array}{lllll}18 & 831 & -26 & 14 & 357\end{array}$ $\begin{array}{lllll}21 & 836 & -32 & 11 & 15\end{array}$ DAY 15
$\begin{array}{lllll}00 & 873 & -33 & 14 & 4\end{array}$ $\begin{array}{rrrrr}03 & 870 & -33 & 14 & 15 \\ 06 & 866 & -32 & 16 & 1\end{array}$ $\begin{array}{llllll}09 & 860 & -27 & 20 & 15\end{array}$ $\begin{array}{lllll}12 & 856 & -24 & 22 & 4 \\ 15 & 854 & -24 & 24 & 1\end{array}$ $\begin{array}{rrrrr}15 & 854 & -24 & 24 & 1 \\ 18 & 851 & -24 & 22 & 360\end{array}$ $\begin{array}{llll}21 & 852 & -24 & 21\end{array}$ DAY 22
$\begin{array}{lllll}00 & 868 & -38 & 5 & 357\end{array}$
$\begin{array}{lllll}03 & 867 & -37 & 6 & 340\end{array}$
$\begin{array}{lllll}06 & 868 & -36 & 5 & 337\end{array}$
$\begin{array}{lllll}09 & 868 & -34 & 5 & 317\end{array}$
$\begin{array}{llll}12 & 869 & -36 & 6\end{array} 334$
$\begin{array}{llll}15 & 869 & -35 & 6\end{array} 350$
$\begin{array}{lllll}18 & 869 & -38 & 7 & 348\end{array}$
$\begin{array}{lllll}21 & 868 & -37 & 8 & 358\end{array}$ DAY 29
$\begin{array}{lllll}00 & 871 & -46 & 11 & 360\end{array}$
$\begin{array}{lllll}03 & 869 & -44 & 11 & 2\end{array}$
$\begin{array}{lllll}06 & 868 & -42 & 12 & 16\end{array}$
$\begin{array}{lllll}09 & 866 & -40 & 13 & 14\end{array}$
$\begin{array}{lllll}12 & 865 & -40 & 11 & 14\end{array}$
$\begin{array}{lllll}15 & 864 & -38 & 12 & 11\end{array}$
$\begin{array}{lllll}18 & 862 & -36 & 13 & 14\end{array}$
$\begin{array}{lllll}21 & 861 & -35 & 13 & 5\end{array}$

PP TT VV DD DAY 2
862-13 7351
861-16 7345
861-19 6337
$\begin{array}{llll}860 & -18 & 4 & 9\end{array}$
858-19 $6 \quad 1$
$\begin{array}{llll}858 & -25 & 8 & 219\end{array}$
$861-29 \quad 4 \quad 282$
862 -30 6345 DAY 9
840-35 $14 \quad 9$
$844-3714358$
850-39 $11 \quad 360$
855-40 $13 \quad 2$
$\begin{array}{llll}859 & -38 & 13 & 2\end{array}$
$\begin{array}{llll}862 & -35 & 9 & 9\end{array}$
$\begin{array}{llll}861 & -29 & 6 & 97\end{array}$
856-22 $15 \quad 52$
DAY 16
853-25 $19 \quad 2$
854-26 $13 \quad 345$
856-27 $10 \quad 2$
858-25 $11 \quad 5$
859-25 9 360
859-28 $11 \quad 4$
859-30 $12 \quad 4$
860 -31 10360 DAY 23
$\begin{array}{llll}868 & -37 & 7 & 2\end{array}$
$\begin{array}{llll}866 & -36 & 8 & 7\end{array}$
$\begin{array}{llll}864 & -39 & 10 \quad 14\end{array}$
862-40 $\quad 8 \quad 14$
859-40 $12 \quad 22$
857-40 1316
855-39 $15 \quad 21$
853-37 $19 \quad 16$ DAY 30
862-36 13360
863-38 $12 \quad 5$
$\begin{array}{llll}863 & -38 & 13 & 14\end{array}$
864-38 $13 \quad 9$
864-37 $12 \quad 11$
$\begin{array}{llll}863 & -35 & 14 & 7\end{array}$
$\begin{array}{llll}863 & -33 & 11 & 4 \\ 862 & -32 & 14 & 5\end{array}$

PP TT WV DD DAY 3
859-32 $8 \quad 12$
852-29 $13 \quad 11$
846-24 10345
846-22 13299
850-26 13291
853-33 19299
858 -35 $15 \quad 302$
861 -36 13307 DAY 10
853-18 1856
853-17 $18 \quad 39$
851-18 $23 \quad 32$
$\begin{array}{llll}851 & -18 & 20 & 23\end{array}$
$\begin{array}{llll}852 & -20 & 19 & 23\end{array}$
$\begin{array}{llll}854 & -21 & 17 & 23\end{array}$
859-24 $\quad 3 \quad 71$
$\begin{array}{llll}861 & -24 & 8 & 36\end{array}$ DAY 17
860-31 9357
$\begin{array}{lllll}863 & -32 & 10 & 358\end{array}$
865-30 6348
$\begin{array}{llll}868 & -31 & 7 & 5\end{array}$
869-29 $10 \quad 9$
868-29 $11 \quad 16$
866-25 12360
$\begin{array}{llll}865 & -24 & 14 & 14\end{array}$
DAY 24
854-35 $16 \quad 9$
$854-3516354$
$857-3712358$
$\begin{array}{llll}860 & -36 & 7 & 360\end{array}$
$\begin{array}{llll}863 & -35 & 7 & 360\end{array}$
$\begin{array}{llll}865 & -39 & 6 & 360\end{array}$
$\begin{array}{llll}865 & -37 & 7 & 360\end{array}$
865 -38 7354

## DAY 31

862-33 $15 \quad 5$
862-32 $14 \quad 360$
861-32 14355
861 -30 $16 \quad 1$
861 -29 $16 \quad 2$
861-29 18360
861-2719 5
$861-27 \quad 20 \quad 4$

PP TTVV DD PP TTV DD DAY 5
860-49 8360
$\begin{array}{llll}857 & -49 & 9 & 9\end{array}$
$\begin{array}{llll}853 & -48 & 8 & 21\end{array}$
$\begin{array}{llll}845 & -45 & 14 & 29\end{array}$
$\begin{array}{llll}837 & -34 & 11 & 23\end{array}$
$833-2915358$
832-31 9358
834-33 5337 DAY 12
864-34 $12 \quad 33$
863-31 1119
862-29 $13 \quad 2$
$\begin{array}{llll}861 & -28 & 14 & 14\end{array}$
$\begin{array}{llll}860 & -28 & 10 & 14\end{array}$
858-26 $14 \quad 14$
856-27 $16 \quad 22$
856-27 17 DAY 19
861-26 159
863-26 $11 \quad 2$
865-27 $11 \quad 1$
866-28 $10 \quad 5$
866-30 $12 \quad 2$
865-31 $11 \quad 8$
865-30 $14 \quad 5$
865-31 $12 \quad 2$ DAY 26
857-38 $12 \quad 1$
858-39 12360
$859-4011351$
$860-4210357$
861-42 10354
$862-44 \quad 9358$
862-45 7357
$\begin{array}{llll}861 & -46 & 7 & 358\end{array}$

DAY 6
835 -36 10354
$\begin{array}{llll}836 & -38 & 5 & 2\end{array}$
$\begin{array}{llll}836 & -39 & 6358\end{array}$
837-43 2358
836-42 7344
835-41 6358
835-41 9360
$\begin{array}{llll}836 & -43 & 7 & 15\end{array}$
DAY 13
$\begin{array}{lll}856 & -26 \quad 12 \quad 7\end{array}$
855-26 $14 \quad 28$
855-24 $14 \quad 21$
$857-24 \quad 15 \quad 26$
858-24 $12 \quad 21$
858-24 $15 \quad 28$
$\begin{array}{llll}858 & -24 & 17 & 14\end{array}$
$\begin{array}{llll}860 & -23 & 15 & 14\end{array}$
DAY 20
$\begin{array}{llll}864 & -31 & 14 & 12\end{array}$
862 $-31 \quad 16 \quad 4$
861-31 $15 \quad 9$
861-31 $14 \quad 15$
860-31 $12 \quad 2$
860-31 $15 \quad 2$
861-32 $14 \quad 2$
862-32 $11 \quad 26$
DAY 27
861-46 95
$\begin{array}{llll}860 & -47 & 8 & 4\end{array}$
$\begin{array}{llll}859 & -47 & 8 & 8\end{array}$
$\begin{array}{llll}858 & -48 & 7 & 8\end{array}$
859-48 7351
$\begin{array}{lll}860 & -48 & 7358\end{array}$
$\begin{array}{llll}860 & -48 & 7360\end{array}$
$\begin{array}{llll}861 & -49 & 8 & 9\end{array}$

PP TT WV DD DAY 7
836-44 8358
$\begin{array}{llll}836 & -45 & 7 & 358\end{array}$
$\begin{array}{llll}837 & -46 & 8 & 5\end{array}$
$\begin{array}{llll}838 & -48 & 8 & 1\end{array}$
839-49 $10 \quad 9$
841-50 12360
$843-5010360$
$844-4614 \quad 2$
DAY 14
861-24 19 5
$864-26 \quad 16 \quad 360$
867-26 13360
868 -27 $14 \quad 4$
$\begin{array}{llll}870 & -28 & 15 & 4\end{array}$
872-28 11358
873-30 12
873-32 14
DAY 21
863-32 $12 \quad 8$

| 863 | -35 | 11 | 4 |
| ---: | ---: | ---: | ---: |

864-38 11116
865 -38 9358
866-38 10 355
867-37 $\quad 8 \quad 357$
$\begin{array}{llll}867 & -39 & 6 & 360\end{array}$
868-37 5350
DAY 28
$\begin{array}{llll}862 & -50 & 7 & 7 \\ 864 & -50 & 8 & 5\end{array}$
$\begin{array}{lllll}864 & -50 & 8 & 5 \\ 866 & -50 & 8 & 5\end{array}$
$\begin{array}{llll}868 & -50 & 8 & 360\end{array}$
870-50 8
872-50 8
872-49 9
$\begin{array}{lll}872 & -48 & 10 \quad 5\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-33.2$ Std dev $=8.9$ max $=-10.5$ at 1530 GMT on day 1 min $=-50.8$ at 1610 GMt on day 7
* theta (K) * mean = 250.68
* PRESSURE (MB) * MEAN $=858.1$ STD DEV $=9.7$ MAX $=873.3$ AT 2150 GMT ON DAY 14 MIN $=824.1$ AT 1220 GMT ON DAY 8
* WINDS (M/S) * MEAN $=11.5$ STD DEV $=4.4$ RESULTANT $=10.9$ FROM 6. CONSTANCY $=0.95 \mathrm{MAX}=32.8$ FROM 46. AT 1040 GMT DAY 8
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$


PERCENT $\begin{array}{llllllllllllllll}62 & 24 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 2 & 7\end{array}$

SEP 97 HR $\begin{array}{rrrrr}00 & 860 & -26 & 18 & 11 \\ 03 & 860 & -26 & 18 & 4 \\ 06 & 860 & -26 & 18 & 7 \\ 09 & 860 & -26 & 18 & 1 \\ 12 & 861 & -26 & 18 & 5 \\ 15 & 860 & -26 & 20 & 7 \\ 18 & 859 & -26 & 22 & 360 \\ 21 & 862 & -24 & 21 & 360\end{array}$ DAY 8
$\begin{array}{llll}00 & 857 & -26 & 11\end{array} 18$
$\begin{array}{lllll}03 & 857 & -29 & 9 & 28\end{array}$
$\begin{array}{lllll}06 & 856 & -31 & 6 & 40\end{array}$
$\begin{array}{lllll}09 & 855 & -32 & 7 & 32\end{array}$
$\begin{array}{lllll}12 & 855 & -35 & 10 & 4\end{array}$
$\begin{array}{lllll}15 & 857 & -40 & 7 & 347\end{array}$
$\begin{array}{lllll}18 & 860 & -34 & 8 & 327\end{array}$
$\begin{array}{llll}21 & 862 & -34 & 6337\end{array}$ DAY 15
$\begin{array}{lllll}00 & 855 & -47 & 8 & 360\end{array}$
$\begin{array}{llll}03 & 855 & -48 & 9 \\ 360\end{array}$ $\begin{array}{lllll}06 & 855 & -48 & 9 & 14\end{array}$ $\begin{array}{lllll}09 & 855 & -48 & 9 & 4\end{array}$ $\begin{array}{lllll}12 & 854 & -48 & 9 & 7\end{array}$ $\begin{array}{lllll}15 & 855 & -48 & 8 & 360\end{array}$ $\begin{array}{lllll}18 & 855 & -47 & 9 & 4\end{array}$ $\begin{array}{lllll}21 & 856 & -46 & 10 & 5\end{array}$ DAY 22 $\begin{array}{llll}00 & 872 & -14 & 15 \\ 15\end{array}$ $\begin{array}{lllll}03 & 868 & -14 & 21 & 19\end{array}$ $\begin{array}{lllll}06 & 866 & -14 & 17 & 5\end{array}$ $\begin{array}{lllll}09 & 866 & -14 & 16 & 14\end{array}$ $\begin{array}{lllll}12 & 866 & -13 & 17 & 14\end{array}$ $\begin{array}{lllll}15 & 866 & -12 & 17 & 4\end{array}$ $\begin{array}{lllll}18 & 867 & -11 & 17 & 5\end{array}$ $\begin{array}{llll}21 & 867 & -11 & 16 \\ 8\end{array}$ DAY 29
$\begin{array}{lllll}00 & 869 & -27 & 9 & 4\end{array}$
$\begin{array}{lllll}03 & 868 & -24 & 11 & 360\end{array}$
$\begin{array}{lllll}06 & 869 & -25 & 8 & 358\end{array}$
$\begin{array}{llllll}09 & 870 & -24 & 10 & 360\end{array}$
$\begin{array}{llll}12 & 871 & -24 & 9 \\ 360\end{array}$
$\begin{array}{llll}15 & 871 & -22 & 9 \\ 360\end{array}$
$\begin{array}{lllll}18 & 870 & -20 & 11 & 289\end{array}$

PP TT WV DD PP TT VV DD DAY 2
863-22 $14 \quad 8$
863-20 1511
863-20 $17 \quad 7$
864-18 16360
867-20 17358
868-19 $19 \quad 1$
868 -20 $20 \quad 360$
870 -20 13357 DAY 9
864-36 6355
$\begin{array}{llll}865 & -39 & 6 & 4\end{array}$
$\begin{array}{llll}866 & -42 & 7360\end{array}$
$\begin{array}{llll}866 & -43 & 7360\end{array}$
$\begin{array}{llll}865 & -44 & 7 & 1\end{array}$
$\begin{array}{llll}865 & -45 & 7 & 1\end{array}$
$864-44 \quad 8 \quad 360$
$\begin{array}{lll}860 & -41 & 9 \\ 360\end{array}$
DAY 16
856-46 $10 \quad 2$
$\begin{array}{llll}857 & -46 & 9 & 11\end{array}$
$\begin{array}{llll}857 & -46 \quad 11 & 8\end{array}$
$\begin{array}{llllllll}858 & -46 & 11 & 7 & 866 & -43 & 10 & 1\end{array}$
$\begin{array}{llllllll}859 & -45 & 11 & 7 & 868 & -42 & 9 & 360\end{array}$
$\begin{array}{lllllll}859 & -45 & 12 & 9 & 869 & -42 & 9\end{array} 1$
$\begin{array}{lllllllll}860 & -44 & 12 & 2 & 871 & -41 & 9 & 4\end{array}$
860-42 $10 \quad 5$

## DAY 23

866-11 $21 \quad 14$
868-12 1516
869-13 $15 \quad 32$
$\begin{array}{llll}865 & -13 & 17 & 18\end{array}$
$\begin{array}{llll}864 & -14 & 20 & 7\end{array}$
867-13 $17 \quad 12$
872-12 $14 \quad 26$
$\begin{array}{llll}871 & -9 & 19 & 19\end{array}$

## DAY 30

$\begin{array}{llll}865 & -18 & 11 & 29\end{array}$
862-19 $11 \quad 26$
859-20 $14 \quad 9$
858-20 $16 \quad 11$
859-18 12360
$860-2011348$
862-19 14355

PP TT WV DD DAY 4
867-26 10358
$\begin{array}{llll}866 & -27 & 9 & 355\end{array}$
$864-2713355$
863-28 $10 \quad 360$
862-29 10355
861-28 12358
860-28 $11 \quad 53$
859-29 12360
DAY 11
850-27 8324
$\begin{array}{llll}853 & -28 & 8 & 338\end{array}$
857-33 10298
860-32 14319
$864-3311307$
868-33 11293
870-31 13293
$\begin{array}{llll}872 & -31 & 9 & 338\end{array}$ DAY 18
$\begin{array}{llll}874 & -40 & 9 & 4\end{array}$
$\begin{array}{llll}874 & -40 & 10 & 14\end{array}$
875-41 $10 \quad 7$
875-40 $10 \quad 9$
875-39 $12 \quad 15$
$\begin{array}{lllll}874 & -39 & 12 \quad 5\end{array}$
$\begin{array}{lllll}873 & -38 & 11 & 15\end{array}$
$\begin{array}{llllllll}873 & -40 & 9 & 2 & 872 & -36 & 12 & 9\end{array}$
DAY 25
871-10 $20 \quad 18$
872-11 $16 \quad 21$
872-11 $17 \quad 23$
871-12 $16 \quad 25$
$\begin{array}{llll}870 & -12 \quad 13 \quad 25\end{array}$
868-13 $17 \quad 33$
868-12 $17 \quad 37$
866-14 $15 \quad 40$

PP TT WV DD DAY 5
860-29 12360
861-29 11357
$861-3011360$
862-30 $10 \quad 1$
863 -29 11360
862-30 $12 \quad 1$
862 $-3012 \quad 94$
862-30 11358 DAY 12
872-32 9355
$\begin{array}{lll}872 & -31 & 6334\end{array}$
872-36 6326
$\begin{array}{llll}873 & -37 & 6 & 334\end{array}$
$\begin{array}{llll}874 & -36 & 6 & 334\end{array}$
$\begin{array}{llll}873 & -38 & 6 & 347\end{array}$
$\begin{array}{llll}873 & -37 & 6354\end{array}$
$\begin{array}{llll}872 & -39 & 6 & 2\end{array}$ DAY 19
$\begin{array}{llll}871 & -36 & 13 & 7\end{array}$
870-34 12355
869-33 $12 \quad 1$
$\begin{array}{llll}869 & -36 & 11 & 4\end{array}$
$\begin{array}{lllll}868 & -36 & 14 & 15\end{array}$
869-34 11360
$869-3210348$
871 -31 9354 DAY 26
864-16 $12 \quad 25$
864-18 $11 \quad 26$
862-20 $11 \quad 18$
861-19 $11 \quad 40$
859-20 $8 \quad 43$
$\begin{array}{llll}858 & -21 & 9 & 32\end{array}$
858-23 6344
$860-24 \quad 7324$

PP TT WV DD DAY 6
863-32 13357
862-30 $13 \quad 360$
$\begin{array}{llll}862 & -31 & 12 & 8\end{array}$
$\begin{array}{llll}861 & -33 & 14 & 7\end{array}$
$\begin{array}{llll}861 & -31 & 15 & 8\end{array}$
$\begin{array}{llll}860 & -32 & 16 & 8\end{array}$
$860-32 \quad 15 \quad 360$
$\begin{array}{llll}860 & -31 & 9 & 360\end{array}$ DAY 13
$\begin{array}{llll}871 & -42 & 7 & 1\end{array}$
$\begin{array}{lll}869 & -45 \quad 6 \quad 360\end{array}$
868-46 6360
867-48 6330
867-48 6350
866-49 6357
865-48 $\quad 7352$
865-46 5357 DAY 20
872-26 $10 \quad 1$
874-26 9355
$\begin{array}{llll}875 & -29 & 11 & 2\end{array}$
$\begin{array}{llll}875 & -35 & 11 & 1\end{array}$
$875-34 \quad 10 \quad 4$
$\begin{array}{llll}874 & -31 & 12 & 2\end{array}$
871-23 $18 \quad 4$
869-24 14
DAY 27
861-22 9298
862-21 12282
864-20 11289
865-20 12299
866-20 9322
$867-24 \quad 7336$
868-20 9344
868-20 7360

PP TT W DD DAY 7
859-29 1216
859-30 $10 \quad 22$
857-29 $15 \quad 18$
858-29 $12 \quad 2$
858-29 $12 \quad 1$
$\begin{array}{llll}858 & -27 & 12 & 7\end{array}$
856-26 $19 \quad 12$
$\begin{array}{llll}856 & -25 & 14 & 11\end{array}$ DAY 14
864-46 6 358
$\begin{array}{lll}862 & -47 & 7360\end{array}$
$\begin{array}{llll}860 & -47 & 8 & 11\end{array}$
859-47 $10 \quad 4$
856-48 $10 \quad 2$
855-49 $11 \quad 4$
854-48 $9 \quad 1$
854-47 $7 \quad 360$ DAY 21
$869-2316357$
$\begin{array}{lll}870 & -21 & 14358\end{array}$
871 -16 16347
874-17 10360
875-18 20358
875-17 19360
$\begin{array}{rrrr}876 & -15 & 17 & 4 \\ 875 & -13 & 12 & 22\end{array}$
$\begin{array}{rrr}875 & -1312 \\ \text { DAY } 28\end{array}$
867-27 $\quad 6 \quad 14$
$\begin{array}{llll}866 & -30 & 9 & 4\end{array}$
$\begin{array}{llll}866 & -30 & 8 & 358\end{array}$
866-30 $\quad 8 \quad 360$
$\begin{array}{llll}867 & -31 & 9 & 8\end{array}$
$\begin{array}{llll}868 & -32 & 10 & 357\end{array}$
$\begin{array}{rrrr}869 & -32 & 10 & 5 \\ 870 & -30 & 9 & 4\end{array}$

MONTHLY SUMMARY

* temperature (C) * mean $=-28.6$ Std dev $=11.1$ MAX $=-7.1$ at 850 GMT ON DAY 24 MIN $=-49.4$ AT 1530 GMt ON DAY 14
* theta (K) * mean $=254.97$
* PRESSURE (MB) * MEAN $=864.5$ STD DEV $=6.8$ MAX $=876.1$ at 1630 GMT ON DAY 21 MIN $=840.5$ AT 820 GMT ON DAY 10
* WINDS (M/S) * MEAN $=11.6$ STD DEV $=3.9$ RESULTANT $=10.9$ FROM 4. CONSTANCY $=0.94$ MAX $=24.4$ FROM 22. AT 2050 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$




OCT 97

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 865 & -17 & 10 & 355\end{array}$
$\begin{array}{lllll}03 & 866 & -17 & 12 & 2\end{array}$
$\begin{array}{lllll}06 & 866 & -15 & 14 & 360\end{array}$
$\begin{array}{lllll}09 & 868 & -15 & 12 & 360\end{array}$
$\begin{array}{lllll}12 & 868 & -17 & 10 & 7\end{array}$
$\begin{array}{lllll}15 & 867 & -11 & 11 & 25\end{array}$
$\begin{array}{lllll}18 & 867 & -10 & 13 & 12\end{array}$
$\begin{array}{lllll}21 & 867 & -9 & 15 & 16\end{array}$ DAY 8
$\begin{array}{llll}00 & 877 & -17 & 7345\end{array}$
$\begin{array}{lllll}03 & 876 & -20 & 8 & 343\end{array}$
$\begin{array}{lllll}06 & 875 & -20 & 8 & 329\end{array}$
$\begin{array}{llll}09 & 876 & -19 & 7330\end{array}$
$\begin{array}{lllll}12 & 876 & -22 & 7 & 347\end{array}$
$\begin{array}{lllll}15 & 875 & -22 & 6 & 331\end{array}$
$\begin{array}{llll}18 & 875 & -21 & 6\end{array} 337$
$\begin{array}{lllll}21 & 875 & -17 & 5 & 313\end{array}$ DAY 15
$\begin{array}{lllll}00 & 872 & -21 & 6 & 360\end{array}$
$\begin{array}{lllll}03 & 871 & -27 & 12 & 14\end{array}$
$\begin{array}{lllll}06 & 871 & -27 & 13 & 8\end{array}$
$\begin{array}{lllll}09 & 869 & -27 & 17 & 360\end{array}$
$\begin{array}{lllll}12 & 869 & -27 & 15 & 358\end{array}$
$\begin{array}{lllll}15 & 869 & -27 & 14 & 352\end{array}$
$\begin{array}{lllll}18 & 870 & -25 & 10 & 350\end{array}$
$\begin{array}{lllll}21 & 870 & -23 & 7 & 351\end{array}$ DAY 22
$\begin{array}{lllll}00 & 860 & -16 & 7 & 319\end{array}$
$\begin{array}{lllll}03 & 862 & -17 & 6 & 330\end{array}$
$\begin{array}{lllll}06 & 864 & -21 & 8 & 351\end{array}$
$\begin{array}{lllll}09 & 866 & -21 & 9 & 351\end{array}$
$\begin{array}{llll}12 & 869 & -19 & 8 \\ 355\end{array}$
$\begin{array}{lllll}15 & 870 & -20 & 9 & 4\end{array}$
$\begin{array}{lllll}18 & 869 & -20 & 12 & 7\end{array}$
$\begin{array}{lllll}21 & 868 & -18 & 11 & 9\end{array}$ DAY 29
$\begin{array}{lllll}00 & 853 & -15 & 10 & 358\end{array}$
$\begin{array}{lllll}03 & 853 & -17 & 8 & 350\end{array}$
$\begin{array}{llll}06 & 852 & -19 & 9 \\ 360\end{array}$
$\begin{array}{lllll}09 & 853 & -18 & 7 & 355\end{array}$
$\begin{array}{lllll}12 & 854 & -16 & 6 & 338\end{array}$
$\begin{array}{llll}15 & 855 & -15 & 5 \\ 292\end{array}$
$\begin{array}{llll}18 & 857 & -17 & 4\end{array} 306$

| 21 | 858 | -17 | 5 |
| :--- | :--- | :--- | :--- |

PP TT VV DD DAY 2
$\begin{array}{llll}867 & -10 & 15 & 18\end{array}$
$\begin{array}{llll}868 & -10 & 12 & 26\end{array}$
$\begin{array}{llll}868 & -10 & 12 & 23\end{array}$
$\begin{array}{llll}868 & -10 & 12 & 21\end{array}$
$\begin{array}{llll}867 & -9 & 11 & 19\end{array}$
$\begin{array}{llll}866 & -9 & 8 & 12\end{array}$
$\begin{array}{llll}866 & -9 & 9 & 23\end{array}$
867-13 4350
DAY 9
875-14 3329
$\begin{array}{llll}873 & -14 & 6 & 11\end{array}$
$\begin{array}{llll}870 & -20 & 8 & 22\end{array}$
$\begin{array}{llll}868 & -20 & 11 & 1\end{array}$
$\begin{array}{llll}865 & -19 & 10 & 21\end{array}$
$\begin{array}{llll}862 & -17 & 12 & 11\end{array}$
$\begin{array}{llll}860 & -12 & 9 & 357\end{array}$
859-10 9360
DAY 16
871-22 6330

| 871 | -22 | 3 |
| :--- | :--- | :--- |

$\begin{array}{llll}872 & -25 & 4 & 337\end{array}$
$\begin{array}{llll}873 & -30 & 6345\end{array}$
$\begin{array}{llll}873 & -31 & 7 & 5\end{array}$
$\begin{array}{llll}873 & -30 & 7 & 4\end{array}$
$\begin{array}{llll}872 & -28 & 9 & 4\end{array}$
$\begin{array}{llll}871 & -26 & 8 & 16\end{array}$
DAY 23
$\begin{array}{llll}865 & -15 & 15 & 14\end{array}$
864-12 14357
$\begin{array}{llll}866 & -11 & 12337\end{array}$
$\begin{array}{llll}870 & -14 & 9 & 348\end{array}$
$\begin{array}{llll}873 & -15 & 8 & 11\end{array}$
$\begin{array}{llll}873 & -15 & 13 & 9\end{array}$
$\begin{array}{llll}868 & -12 & 12 & 23\end{array}$
$\begin{array}{lll}861 & -9 & 25\end{array}$
DAY 30
860-19 6 305
$861-21 \quad 5307$
862-20 4305
862-20 4337
$\begin{array}{llll}862 & -17 & 6 & 327\end{array}$
861-17 6320
860-16 5315
859-17 8357

PP TT VV DD DAY 3
869-17 10360
$\begin{array}{llll}870 & -19 & 11 & 1\end{array}$
$\begin{array}{llll}871 & -18 & 14 & 1\end{array}$
$\begin{array}{llll}873 & -15 & 10 & 11\end{array}$
$\begin{array}{llll}871 & -14 & 14 & 2\end{array}$
$\begin{array}{llll}870 & -13 & 15 & 21\end{array}$
869-12 $18 \quad 358$
869-13 $17 \quad 2$
DAY 10
859-12 7357
859-13 6348
860-11 5331
862-12 5307
$\begin{array}{llll}866 & -12 & 5 & 320\end{array}$
869-12 8309
872-13 9288
876-15 7331 DAY 17
$\begin{array}{llll}870 & -26 & 8 & 23\end{array}$
868-27 8360
868-29 8360
$\begin{array}{llll}867 & -32 & 8 & 4\end{array}$
867-32 9360
$\begin{array}{llll}866 & -31 & 8 & 2\end{array}$
$\begin{array}{llll}866 & -28 & 8 & 1\end{array}$
$\begin{array}{llll}865 & -25 \quad 8360\end{array}$ DAY 24
$861-8 \quad 24306$
869-12 15300
$\begin{array}{llll}873 & -16 & 12309\end{array}$
$\begin{array}{llll}875 & -19 & 10 & 334\end{array}$
$\begin{array}{llll}875 & -21 & 9 & 4\end{array}$
872-19 $\quad 8 \quad 15$
$\begin{array}{llll}867 & -14 & 10 & 8\end{array}$
$\begin{array}{llll}862 & -8 & 9 & 350\end{array}$ DAY 31
856-18 $8 \quad 1$
853-20 8360
$\begin{array}{llll}851 & -21 & 9 & 2\end{array}$
850-21 7360
849-19 6 327
850-18 6320
852-18 6302
$\begin{array}{llll}852 & -18 & 6 & 302 \\ 854 & -17 & 5 & 313\end{array}$


MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-18.2$ Std dev $=5.6$ MAX $=-6.5$ at 2230 GMT ON DAY 23 MIN $=-32.0$ at 1010 GMT ON DAY 17
* THETA (K) * MEAN $=265.62$
* PRESSURE (MB) * MEAN $=866.7$ STD DEV $=6.5$ MAX $=879.7$ AT 1030 GMT ON DAY 7 MIN $=849.1$ AT 1140 GMT ON DAY 31
* WINDS (M/S) * MEAN $=9.3$ STD DEV $=3.7$ RESULTANT $=8.6$ from 355. CONSTANCY $=0.92$ max $=25.0$ from 309. at 100 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: $\quad 1 \begin{array}{llllllllllllll}0 & 12 & 21 & 28 & 14 & 8 & 8 & 3 & 0 & 1 & 0 & 0 & 0 & 0\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NH } & \text { NNW } \\ \text { PERCENT } & 53 & 14 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 5 & 11 & 16\end{array}$

NOV 97

HR PP TT VV DD DAY
$\begin{array}{lllll}00 & 856 & -16 & 1 & 315\end{array}$
$\begin{array}{llll}03 & 857 & -19 & 3\end{array} 312$
$06 \quad 858-22 \quad 3 \quad 360$
$09 \quad 859-22 \quad 3358$
$\begin{array}{lllll}12 & 861 & -23 & 4 & 281\end{array}$
$\begin{array}{lllll}15 & 861 & -24 & 3 & 293\end{array}$
$\begin{array}{llll}18 & 862 & -22 & 1291\end{array}$
$\begin{array}{lllll}21 & 861 & -18 & 0 & 0\end{array}$
DAY 8
$\begin{array}{llll}00 & 873 & -11 & 20\end{array}$
$\begin{array}{lllll}03 & 874 & -12 & 19 & 9\end{array}$
$\begin{array}{lllll}06 & 876 & -13 & 15 & 5\end{array}$
$\begin{array}{llll}09 & 879 & -13 \quad 15\end{array}$
$\begin{array}{lllll}12 & 881 & -13 & 16 & 8\end{array}$
$\begin{array}{lllll}15 & 882 & -13 & 19 & 1\end{array}$
$\begin{array}{lllll}18 & 884 & -13 & 13 & 4\end{array}$
$\begin{array}{lllll}21 & 884 & -12 & 16 & 21\end{array}$ DAY 15
$\begin{array}{lllll}00 & 872 & -9 & 12 & 23\end{array}$
$\begin{array}{llllll}03 & 873 & -10 & 10 & 5\end{array}$
$\begin{array}{lllll}06 & 874 & -11 & 13 & 15\end{array}$
$\begin{array}{lllll}09 & 875 & -13 & 14 & 8\end{array}$
$\begin{array}{lllll}12 & 875 & -13 & 12 & 14\end{array}$
$\begin{array}{lllll}15 & 876 & -13 & 14 & 8\end{array}$
$\begin{array}{lllll}18 & 878 & -12 & 9 & 11\end{array}$
$\begin{array}{lllll}21 & 878 & -11 & 11 & 5\end{array}$ DAY 22
$\begin{array}{lllll}00 & 891 & -5 & 4 & 316\end{array}$
$\begin{array}{lllll}03 & 891 & -6 & 3 & 274\end{array}$
$\begin{array}{lllll}06 & 892 & -8 & 4 & 292\end{array}$
$\begin{array}{lllll}09 & 893 & -9 & 4 & 291\end{array}$
$\begin{array}{lllll}12 & 894 & -9 & 5 & 286\end{array}$
$\begin{array}{lllll}15 & 895 & -7 & 2 & 272\end{array}$
$\begin{array}{lllll}18 & 895 & -7 & 5 & 278\end{array}$
$\begin{array}{llllll}21 & 896 & -7 & 10 & 246\end{array}$ DAY 29
$\begin{array}{lllll}00 & 879 & -9 & 5 & 324\end{array}$
$\begin{array}{lllll}03 & 880 & -10 & 3 & 316\end{array}$
$\begin{array}{lllll}06 & 881 & -10 & 3 & 340\end{array}$
$\begin{array}{lllll}09 & 881 & -13 & 4 & 340\end{array}$
$\begin{array}{llll}12 & 882 & -13 & 6350\end{array}$
$\begin{array}{llll}15 & 882 & -12 & 6354\end{array}$
$\begin{array}{lllll}18 & 883 & -9 & 5 & 360\end{array}$
$\begin{array}{lllll}21 & 883 & -7 & 6 & 354\end{array}$

PP TT VV DD PP TT VV DD DAY 2
860-21 6
859-21 6360
$858-22 \quad 8360$
$\begin{array}{llll}857 & -23 & 11 & 354\end{array}$
857-22 11351
857-17 9355
858-14 7334
858-12 7331
DAY 9
$\begin{array}{llll}884 & -11 & 14 & 16\end{array}$
$\begin{array}{llll}884 & -11 & 11 & 18\end{array}$
$\begin{array}{llll}884 & -13 & 10 & 22\end{array}$
$\begin{array}{llll}884 & -14 & 14 & 14\end{array}$
885-15 $15 \quad 28$
885-15 $15 \quad 26$
$\begin{array}{llll}885 & -14 & 14 & 32\end{array}$
$\begin{array}{llll}885 & -13 & 13 & 23\end{array}$ DAY 16
877-10 97
877-11 10360
876-13 115
875-14 9 1
873-14 9
$\begin{array}{lll}871 & -13 \quad 10 \quad 1\end{array}$
870-12 $9 \quad 9$
869-11 92
DAY 23
$897 \quad-6 \quad 7247$
$\begin{array}{llll}897 & -7 & 6 & 239\end{array}$

| 898 | -7 | 6 |
| :--- | :--- | :--- |

$\begin{array}{llll}898 & -7 & 4 & 240\end{array}$
$898-7 \quad 3 \quad 270$
$898-7 \quad 4285$
$\begin{array}{llll}897 & -5 & 3 & 285\end{array}$
$896-5 \quad 3296$ DAY 30
$\begin{array}{llll}884 & -6 & 3 & 331\end{array}$
$\begin{array}{llll}884 & -8 & 3 & 331\end{array}$
884-11 4 350
885-15 6355
884-14 6 360
884-13 $7 \quad 5$
884-11 6350


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-12.2$ STD DEV $=4.0$ MAX $=-3.5$ AT 2240 GMT ON DAY 23 MIN $=-24.5$ AT 1300 GMT ON DAY 1
* THETA (K) * MEAN $=270.93$
* PRESSURE (MB) * MEAN $=877.0$ STD DEV $=10.5$ MAX $=898.1$ AT 1050 GMT ON DAY 23 MIN $=856.0$ AT 0 GMT ON DAY 1
* WINDS (M/S) * MEAN $=9.3$ STD DEV $=4.7$ RESULTANT $=8.2$ FROM 3. CONSTANCY $=0.89$ MAX $=24.4$ FROM 18 . AT 1430 GMT DAY 7 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllllllllll}\text { PERCENT } & 44 & 26 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 5 & 4 & 6 & 3 & 9\end{array}$

DEC 97

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 883 & -8 & 4 & 330\end{array}$
$\begin{array}{lllll}03 & 883 & -9 & 2 & 343\end{array}$
$\begin{array}{llll}06 & 882 & -12 & 4 \\ 357\end{array}$
$\begin{array}{llll}09 & 882 & -14 & 5 \\ 354\end{array}$
$\begin{array}{llll}12 & 882 & -15 & 7 \\ 351\end{array}$
$\begin{array}{llll}15 & 881 & -13 & 6 \\ 360\end{array}$
$\begin{array}{llll}18 & 881 & -11 & 6360\end{array}$
$\begin{array}{llll}21 & 881 & -9 & 6\end{array} 341$
DAY 8
$\begin{array}{lllll}00 & 887 & -6 & 3 & 106\end{array}$
$\begin{array}{lllll}03 & 886 & -8 & 3 & 97\end{array}$
$\begin{array}{lllll}06 & 885 & -9 & 3 & 88\end{array}$
$\begin{array}{lllll}09 & 884 & -8 & 1 & 127\end{array}$
$\begin{array}{lllll}12 & 883 & -8 & 1 & 102\end{array}$
$\begin{array}{lllll}15 & 883 & -11 & 3 & 324\end{array}$
$\begin{array}{lllll}18 & 883 & -8 & 2310\end{array}$
$\begin{array}{llll}21 & 883 & -5 & 2330\end{array}$
DAY 15
$\begin{array}{lllll}00 & 879 & -5 & 4 & 5\end{array}$
$\begin{array}{lllll}03 & 878 & -7 & 6 & 2\end{array}$
$\begin{array}{llll}06 & 878 & -10 & 5 \\ 360\end{array}$
$\begin{array}{lllll}09 & 878 & -12 & 6 & 360\end{array}$
$\begin{array}{lllll}12 & 879 & -11 & 5 & 1\end{array}$
$\begin{array}{llll}15 & 879 & -10 & 4\end{array} 336$
$\begin{array}{lllll}18 & 880 & -11 & 3 & 299\end{array}$
$\begin{array}{lllll}21 & 880 & -7 & 3 & 299\end{array}$ DAY 22
$\begin{array}{lllll}00 & 884 & -1 & 5 & 303\end{array}$
$\begin{array}{lllll}03 & 884 & -1 & 2 & 330\end{array}$
$\begin{array}{lllll}06 & 885 & -5 & 4 & 337\end{array}$
$\begin{array}{lllll}09 & 885 & -3 & 4 & 347\end{array}$
$\begin{array}{lllll}12 & 885 & -3 & 4347\end{array}$
$\begin{array}{lllll}15 & 886 & -1 & 5 & 307\end{array}$
$\begin{array}{lllll}18 & 887 & 0 & 4320\end{array}$
$\begin{array}{llll}21 & 887 & 1 & 3\end{array}$ DAY 29
$\begin{array}{lllll}00 & 884 & 0 & 3 & 285\end{array}$
$\begin{array}{llll}03 & 884 & 1 & 1 \\ 205\end{array}$
$\begin{array}{lllll}06 & 884 & -1 & 0 & 0\end{array}$
$\begin{array}{llll}09 & 884 & -6 & 2316\end{array}$
$\begin{array}{lllll}12 & 885 & -4 & 0 & 0\end{array}$
$\begin{array}{lllll}15 & 885 & -3 & 0 & 0\end{array}$
$\begin{array}{lllll}18 & 885 & -4 & 2 & 144\end{array}$
$\begin{array}{lllll}21 & 886 & -4 & 3 & 136\end{array}$

PP TT VV D DAY 2
$\begin{array}{lll}882 & -8 & 5 \\ 345\end{array}$
$\begin{array}{lll}882 & -9 & 5 \\ 360\end{array}$
882-12 5360
883-10 4313
884-10 5331
$\begin{array}{lll}884 & -9 & 4352\end{array}$
884-10 $\quad 8 \quad 360$
884-10 6
DAY 9
$\begin{array}{llll}882 & -5 & 2 & 95\end{array}$
$\begin{array}{llll}881 & -5 & 2 & 29\end{array}$
880, -8 $3 \quad 52$
$\begin{array}{llll}879 & -6 & 3 & 12\end{array}$
$\begin{array}{llll}879 & -6 & 3 & 347\end{array}$
$\begin{array}{llll}878 & -5 & 3 & 327\end{array}$
$\begin{array}{llll}878 & -4 & 4 & 350\end{array}$
$\begin{array}{llll}877 & -2 & 2 & 351\end{array}$
DAY 16
$\begin{array}{llll}880 & -7 & 5 & 284\end{array}$
$\begin{array}{lll}880 & -6 & 3 \\ 288\end{array}$
880 -7 5279
$\begin{array}{llll}880 & -7 & 4 & 313\end{array}$
$\begin{array}{llll}880 & -8 & 5 & 306\end{array}$
$\begin{array}{lll}879 & -7 & 2331\end{array}$
$\begin{array}{lll}878 & -6 & 4 \\ 324\end{array}$
$\begin{array}{llll}878 & -3 & 3 & 323\end{array}$
DAY 23
$\begin{array}{llll}888 & -1 & 3 & 198\end{array}$
$\begin{array}{llll}888 & -1 & 1 & 67\end{array}$
$\begin{array}{llll}887 & -2 & 2360\end{array}$
$\begin{array}{lll}887 & -4 & 3\end{array} 354$
$\begin{array}{llll}885 & -3 & 4 & 8\end{array}$
$\begin{array}{llll}884 & -3 & 8 & 299\end{array}$

| 885 | -5 | 7 |
| :--- | :--- | :--- |

$\begin{array}{llll}886 & -5 & 8 & 268\end{array}$
DAY 30
$\begin{array}{llll}886 & -3 & 2 & 137\end{array}$
$\begin{array}{llll}886 & -4 & 4 & 157\end{array}$
$\begin{array}{llll}886 & -5 & 3 & 146\end{array}$
$\begin{array}{llll}887 & -5 & 1 & 154\end{array}$
$\begin{array}{llll}887 & -4 & 1 & 281\end{array}$
$\begin{array}{lll}886 & -3 & 2351\end{array}$
$886 \quad 0 \quad 0 \quad 0$
$\begin{array}{llll}886 & -1 & 1 & 23\end{array}$

PP TT VV DD DAY 3
$\begin{array}{llll}883 & -8 & 6 & 9\end{array}$ $\begin{array}{llll}882 & -8 & 4 & 47\end{array}$
$\begin{array}{llll}880 & -8 & 7 & 18\end{array}$
$\begin{array}{llll}880 & -7 & 8 & 11\end{array}$
$\begin{array}{llll}880 & -8 & 7 & 347\end{array}$
882-10 9306
885-12 8300
888 -9 5320
DAY 10
$877 \quad 0 \quad 3360$
$877 \quad-3 \quad 4352$
$\begin{array}{lll}876 & -6 & 5 \\ 360\end{array}$
$\begin{array}{llll}876 & -8 & 6 & 7\end{array}$
$\begin{array}{llll}877 & -8 & 6 & 360\end{array}$
$\begin{array}{llll}877 & -7 & 6 & 2\end{array}$
$\begin{array}{llll}877 & -5 & 6 & 8\end{array}$
$\begin{array}{llll}877 & -3 & 6 & 358\end{array}$

## DAY 17

$\begin{array}{lll}877 & -6 & 325\end{array}$
$\begin{array}{lll}877 & -7 & 2\end{array} 232$
$\begin{array}{lll}876 & -9 & 2302\end{array}$
$\begin{array}{llll}876 & -9 & 1 & 281\end{array}$
$\begin{array}{lll}877 & -9 & 3 \\ 267\end{array}$
$877-10 \quad 5324$
$\begin{array}{llll}877 & -8 & 6 & 333\end{array}$
$877 \quad-5 \quad 3 \quad 340$
DAY 24
$\begin{array}{lll}888 & -7 & 9 \\ 281\end{array}$
$\begin{array}{lll}889 & -8 & 6 \\ 271\end{array}$
$\begin{array}{llll}889 & -8 & 4 & 285\end{array}$
$\begin{array}{lll}890 & -7 & 2355\end{array}$
$\begin{array}{llll}889 & -8 & 4 & 32\end{array}$
$\begin{array}{llll}889 & -7 & 4 & 52\end{array}$
$\begin{array}{llll}888 & -8 & 7 & 47\end{array}$
$\begin{array}{llll}888 & -7 & 7 & 21\end{array}$ DAY 31
$\begin{array}{llll}885 & -2 & 1 & 95\end{array}$
$\begin{array}{llll}885 & -4 & 4 & 25\end{array}$
$\begin{array}{llll}884 & -4 & 2 & 360\end{array}$
$\begin{array}{llll}883 & -5 & 4 & 19\end{array}$
$\begin{array}{llll}882 & -9 & 4 & 29\end{array}$
$\begin{array}{llll}881 & -8 & 5 & 23\end{array}$
$\begin{array}{llll}880 & -7 & 5 & 313\end{array}$
$\begin{array}{llll}880 & -6 & 6 & 303\end{array}$

PP TT VV DD PP TT VV DD DAY 4
$889-5 \quad 6336$
$\begin{array}{llll}891 & -4 & 5 & 344\end{array}$
$\begin{array}{llll}892 & -7 & 5 & 345\end{array}$
$\begin{array}{lll}893 & -9 & 6354\end{array}$
893-10 6357
$\begin{array}{llll}893 & -9 & 6 & 355\end{array}$
$\begin{array}{llll}893 & -6 & 4 & 358\end{array}$
$\begin{array}{llll}893 & -4 & 3 & 341\end{array}$
DAY 11
$\begin{array}{llll}877 & -3 & 5 & 360\end{array}$
$\begin{array}{llll}877 & -4 & 6 & 358\end{array}$
$\begin{array}{llll}878 & -5 & 8 & 352\end{array}$
$\begin{array}{lll}878 & -7 & 7360\end{array}$
$\begin{array}{llll}878 & -8 & 8 & 360\end{array}$
$\begin{array}{lll}878 & -7 & 8 \\ 354\end{array}$
$\begin{array}{lll}878 & -5 & 6360\end{array}$
$\begin{array}{lll}878 & -3 & 6355\end{array}$

## DAY 18

$\begin{array}{lll}878 & -7 & 6299\end{array}$
$\begin{array}{llll}878 & -7 & 4 & 288\end{array}$
$\begin{array}{llll}878 & -10 & 3 & 341\end{array}$
$\begin{array}{llll}877 & -13 & 6 & 14\end{array}$
876-13 6360
874-12 $6 \quad 7$
$\begin{array}{llll}873 & -9 & 6 & 358\end{array}$
$\begin{array}{llll}872 & -7 & 4 & 352\end{array}$

$$
\text { DAY } 25
$$

$\begin{array}{llll}887 & -5 & 5 & 4\end{array}$
$\begin{array}{llll}886 & -5 & 6357\end{array}$
$\begin{array}{llll}885 & -5 & 5 & 337\end{array}$
$\begin{array}{llll}884 & -4 & 5329\end{array}$
$\begin{array}{lll}883 & -4 & 5 \\ 306\end{array}$
$\begin{array}{llll}882 & -3 & 5 & 306\end{array}$
$\begin{array}{llll}882 & -3 & 7270\end{array}$
$\begin{array}{llll}882 & -4 & 9 & 279\end{array}$

DAY 5
$\begin{array}{llll}891 & -3 & 3 & 358\end{array}$
$\begin{array}{llll}890 & -5 & 3 & 37\end{array}$
$\begin{array}{llll}888 & -8 & 2 & 106\end{array}$
$\begin{array}{llll}886 & -8 & 2 & 133\end{array}$
$\begin{array}{llll}884 & -8 & 2 & 97\end{array}$
$\begin{array}{llll}883 & -2 & 0 & 0\end{array}$
$\begin{array}{lllr}883 & -3 & 0 & 0 \\ 883 & -4 & 1 & 268\end{array}$ DAY 12
$\begin{array}{llll}878 & -2 & 6348\end{array}$
$\begin{array}{lll}877 & -3 & 5\end{array} 355$
$\begin{array}{llll}877 & -5 & 6355\end{array}$
$\begin{array}{llll}876 & -6 & 7 & 14\end{array}$
$\begin{array}{llll}875 & -6 & 7 & 357\end{array}$
$\begin{array}{llll}875 & -6 & 8 & 1\end{array}$
$873-4 \quad 8351$
873 -4 7351
DAY 19
$\begin{array}{llll}871 & -5 & 5 & 292\end{array}$
$\begin{array}{lll}871 & -6 & 3 \\ 278\end{array}$
$\begin{array}{llll}872 & -6 & 4 & 278\end{array}$
$\begin{array}{llll}873 & -7 & 6 & 268\end{array}$
873 -8 11291
$\begin{array}{llll}874 & -7 & 10 & 291\end{array}$
$\begin{array}{llll}875 & -7 & 10 & 296\end{array}$
$\begin{array}{llll}877 & -7 & 10 & 288\end{array}$

## DAY 26

## $\begin{array}{llll}882 & -4 & 6 & 281\end{array}$

$\begin{array}{llll}882 & -4 & 7 & 285\end{array}$
$\begin{array}{lll}881 & -4 & 7315\end{array}$
$\begin{array}{llll}881 & -3 & 6 & 309\end{array}$
$\begin{array}{llll}880 & -3 & 6 & 337\end{array}$
$\begin{array}{lll}879 & -2 & 5360\end{array}$
$\begin{array}{lll}879 & -1 & 7 \\ 351\end{array}$
$\begin{array}{llll}879 & -1 & 6 & 21\end{array}$

PP TT VV DD

## DAY 6

$\begin{array}{llll}882 & -3 & 2 & 111\end{array}$
$\begin{array}{llll}881 & -2 & 2 & 87\end{array}$
$\begin{array}{llll}880 & -1 & 2 & 22\end{array}$
$\begin{array}{llll}881 & -5 & 1 & 296\end{array}$
$\begin{array}{lll}882 & -7 & 6 \\ 278\end{array}$
$\begin{array}{llll}883 & -8 & 6 & 305\end{array}$
$\begin{array}{lll}884 & -4 & 1302\end{array}$
$\begin{array}{llll}885 & -4 & 2 & 25\end{array}$
DAY 13
$\begin{array}{llll}872 & -3 & 6348\end{array}$
871 -4 6352
$\begin{array}{lll}870 & -6 & 5334\end{array}$
$\begin{array}{llll}870 & -7 & 4 & 327\end{array}$
$\begin{array}{llll}870 & -7 & 7320\end{array}$
$\begin{array}{llll}870 & -7 & 5317\end{array}$
$\begin{array}{lll}870 & -6 & 6306\end{array}$
$871 \quad-5 \quad 4324$
DAY 20
$\begin{array}{llll}878 & -7 & 8 & 278 \\ 880 & -7 & 3 & 247 \\ 881 & -7 & 6 & 293\end{array}$
$\begin{array}{llll}881 & -7 & 6 & 293\end{array}$
$\begin{array}{llll}882 & -7 & 3 & 331\end{array}$
$\begin{array}{llll}883 & -9 & 4320\end{array}$
$\begin{array}{lll}884 & -5 & 2 \\ 279\end{array}$
$\begin{array}{llll}884 & -4 & 3 & 12\end{array}$
$\begin{array}{lll}884 & -2 & 2360\end{array}$
DAY 27
$879 \quad 0 \quad 6 \quad 15$
$\begin{array}{llll}879 & 1 & 6 & 8\end{array}$
$\begin{array}{llll}880 & -2 & 8 & 4\end{array}$
$\begin{array}{llll}880 & -4 & 9 & 11\end{array}$
$\begin{array}{llll}880 & -4 & 11 & 5\end{array}$
$\begin{array}{llll}881 & -4 & 9 & 1\end{array}$
$\begin{array}{llll}881 & -4 & 9 & 351\end{array}$
882 -2 8352

PP TT WV DD DAY 7
$\begin{array}{llll}885 & -3 & 3 & 116\end{array}$
$\begin{array}{llll}884 & -4 & 4 & 99\end{array}$
$\begin{array}{llll}883 & -4 & 4 & 19\end{array}$
$\begin{array}{llll}883 & -8 & 5 & 331\end{array}$
$\begin{array}{llll}885 & -9 & 4 & 291\end{array}$

| 886 | -7 | 3 |
| :--- | :--- | :--- |

$\begin{array}{llll}887 & -6 & 1 & 180\end{array}$
$\begin{array}{llll}887 & -7 & 3 & 120\end{array}$ DAY 14
$\begin{array}{lll}872 & -5 & 3 \\ 272\end{array}$
$\begin{array}{lll}873 & -5 & 4 \\ 282\end{array}$
$\begin{array}{lll}874 & -5 & 2299\end{array}$
$\begin{array}{llll}875 & -6 & 3 & 317\end{array}$
$\begin{array}{llll}876 & -7 & 3 & 334\end{array}$
$\begin{array}{llll}877 & -7 & 4 & 341\end{array}$
$\begin{array}{llll}878 & -8 & 6 & 358\end{array}$
$\begin{array}{lll}878 & -5 & 4358\end{array}$
DAY 21
$883-44468$
$\begin{array}{llll}881 & -4 & 5 & 37\end{array}$
$\begin{array}{llll}880 & -5 & 5 & 11\end{array}$
$\begin{array}{llll}880 & -3 & 4 & 303\end{array}$
$\begin{array}{llll}881 & -3 & 5 & 260\end{array}$
881 -3 $\quad 5320$
$\begin{array}{llll}882 & -4 & 7 & 274\end{array}$
$883-3 \quad 7295$
DAY 28
$\begin{array}{llll}882 & -2 & 9 & 320\end{array}$
$\begin{array}{llll}882 & -3 & 9 & 302\end{array}$
$\begin{array}{llll}883 & -3 & 7 & 312\end{array}$
$\begin{array}{llll}883 & -4 & 6 & 300\end{array}$
$\begin{array}{llll}883 & -4 & 6 & 309\end{array}$
$\begin{array}{llll}883 & -4 & 6 & 307\end{array}$
$\begin{array}{llll}883 & -4 & 4 & 309\end{array}$

* TEMPERATURE (C) * MEAN $=-5.7$ STD DEV $=3.0$ MAX $=1.4$ AT 1900 GMT ON DAY 22 MIN $=-14.8$ AT 1020 GMT ON DAY 1
* theta (K) * MEAN $=277.34$
* PRESSURE (MB) * MEAN $=881.3$ STD DEV $=4.9$ MAX $=893.3$ at 1150 GMT ON DAY 4 MIN $=869.5$ AT 1200 GMT ON DAY 13
* WINDS (M/S) * MEAN $=4.6$ STD DEV $=2.2$ RESULTANT $=3.4$ fROM 336. CONSTANCY $=0.74$ MAX $=12.5$ FROM 282. AT 1020 GMT DAY 19
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT 30 $\begin{array}{lllllllllllllll}7 & 2 & 1 & 3 & 2 & 2 & 1 & 0 & 1 & 1 & 0 & 8 & 12 & 14 & 14\end{array}$

| HR | PP TT VV DD |  |
| :--- | :--- | :--- | :--- |
|  | DAY | 1 |

$00 \quad 924-3$
$\begin{array}{lll}03 & 924 & -4\end{array}$
$06 \quad 924-5$
$09 \quad 924-6$
$\begin{array}{lll}12 & 924 & -5\end{array}$
$\begin{array}{lll}15 & 924 & -5\end{array}$
$\begin{array}{lll}18 & 925 & -4\end{array}$
$\begin{array}{ll}21 & 925\end{array}$
DAY 8
$00-922-8$
$\begin{array}{lll}03 & 922 & -9\end{array}$
06 921-10
09 920-10
$12919-6$
$\begin{array}{lll}15 & 919 & -6\end{array}$
$\begin{array}{lll}18 & 919 & -6\end{array}$
$21 \quad 920-5$
DAY 15
$\begin{array}{lll}00 & 927 & -3\end{array}$
$\begin{array}{lll}03 & 926 & -3\end{array}$
$\begin{array}{lll}06 & 926 & -3\end{array}$
$\begin{array}{lll}09 & 927 & -4\end{array}$
$\begin{array}{lll}12 & 926 & -5\end{array}$
$\begin{array}{lll}15 & 926 & -4\end{array}$
$\begin{array}{lll}18 & 927 & -4\end{array}$
$\begin{array}{lll}21 & 927 & -4\end{array}$
$\begin{array}{lllll} & \text { DAY } 22 \\ 00 & 930 & -5 & 12 & 73\end{array}$
$\begin{array}{lllll}03 & 930 & -5 & 6 & 73\end{array}$
$\begin{array}{lllll}06 & 930 & -6 & 6 & 67\end{array}$
$\begin{array}{lllll}09 & 930 & -6 & 6 & 74\end{array}$
$\begin{array}{lllll}12 & 930 & -7 & 9 & 85\end{array}$
$\begin{array}{lllll}15 & 929 & -6 & 11 & 68\end{array}$
$\begin{array}{lllll}18 & 930 & -6 & 10 & 64\end{array}$
$\begin{array}{lllll}21 & 931 & -6 & 8 & 91\end{array}$
DAY 29
$\begin{array}{lllll}00 & 930 & -11 & 7 & 35\end{array}$
$\begin{array}{lllll}03 & 929 & -10 & 2 & 30\end{array}$
$\begin{array}{llll}06 & 929 & -12 & 6\end{array} 30$
$\begin{array}{llll}09 & 929 & -12 & 6\end{array} 53$
$\begin{array}{llll}12 & 928 & -10 & 6\end{array}$
$\begin{array}{lllll}15 & 928 & -11 & 6 & 37\end{array}$
$\begin{array}{lllll}18 & 928 & -9 & 5 & 52\end{array}$
$\begin{array}{lllll}21 & 928 & -8 & 6 & 59\end{array}$


PP TT WV DD

| PP | TT W |  |
| :--- | :--- | :--- |
| DAY | 4 |  |
| 921 | -3 |  |
| 921 | -4 |  |
| 920 | -4 |  |
| 920 | -5 |  |
| 920 | -6 |  |
| 921 | -6 |  |
| 921 | -5 |  |
| 922 | -5 |  |
| 9 | DAY | 11 |
| 930 | -8 |  |
| 929 | -9 |  |
| 928 | -7 |  |
| 927 | -5 |  |
| 927 | -5 |  |
| 927 | -5 |  |
| 927 | -4 |  |
| 928 | -3 |  |
| DAY | 18 |  |

$931-1$
$932-2$
$933-3$
$934-3$
$934-3$
$935-3$
$935-3$
$936-2$
DAY 25
$\begin{array}{llll}925 & -6 & 6 & 45\end{array}$
$\begin{array}{llll}924 & -5 & 1 & 337\end{array}$
$\begin{array}{llll}923 & -7 & 2 & 15\end{array}$
923-10 $4 \quad 56$
923-11 646
922-11 $8 \quad 32$
$\begin{array}{llll}923 & -9 & 7 & 33\end{array}$
$\begin{array}{llll}923 & -10 & 8 & 37\end{array}$



FEB 97 $\begin{array}{llrll}\text { HR } & \text { PP } & \text { TT } & \text { VV } & \text { DD } \\ & \text { DAY } & 1\end{array}$ $\begin{array}{lllll}00 & 934 & -6 & 3 & 64\end{array}$ $\begin{array}{lllll}03 & 933 & -5 & 4 & 59\end{array}$ $\begin{array}{lllll}06 & 933 & -5 & 1 & 9\end{array}$
$\begin{array}{lllll}09 & 933 & -5 & 2360\end{array}$
$\begin{array}{llll}12 & 933 & -5 & 2360\end{array}$
$\begin{array}{llll}15 & 934 & -5 & 2360\end{array}$
18
$\begin{array}{llll}21 & 935 & -3 & 2337\end{array}$ DAY 8
$\begin{array}{lllll}00 & 924 & -5 & 2 & 25\end{array}$
$\begin{array}{lllll}03 & 924 & -7 & 3 & 35\end{array}$
$\begin{array}{lllll}06 & 925 & -10 & 4 & 75\end{array}$
$\begin{array}{lllll}09 & 926 & -10 & 6 & 43\end{array}$
$\begin{array}{lllll}12 & 926 & -13 & 6 & 47\end{array}$
$\begin{array}{llll}15 & 926 & -15 & 1 \\ 272\end{array}$
$\begin{array}{lllll}18 & 926 & -17 & 2 & 5\end{array}$
$\begin{array}{llll}21 & 927-17 & 0 & 0\end{array}$ DAY 15
$\begin{array}{lllll}00 & 924 & -15 & 9 & 60\end{array}$
$\begin{array}{llll}03 & 924 & -16 & 10 \\ 59\end{array}$
$\begin{array}{lllll}06 & 925 & -17 & 10 & 66\end{array}$
$\begin{array}{llll}09 & 925 & -18 & 9\end{array} 68$
$\begin{array}{lllll}12 & 926 & -18 & 8 & 60\end{array}$
$\begin{array}{lllll}15 & 926 & -18 & 9 & 52\end{array}$
$\begin{array}{lllll}18 & 926 & -17 & 9 & 54\end{array}$
$\begin{array}{lllll}21 & 926 & -17 & 11 & 59\end{array}$ DAY 22
$\begin{array}{lllll}00 & 916 & -11 & 7 & 53\end{array}$
$\begin{array}{lllll}03 & 916 & -7 & 4 & 347\end{array}$
$\begin{array}{lllll}06 & 916 & -7 & 6 & 347\end{array}$

| 09 | 918 | -6 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}12 & 919 & -7 & 6 & 360\end{array}$
$\begin{array}{lllll}15 & 919 & -9 & 5 & 14\end{array}$
$\begin{array}{lllll}18 & 919 & -8 & 5 & 21\end{array}$
$\begin{array}{lllll}21 & 920 & -9 & 5 & 35\end{array}$

PP TT VV DD DAY 2
$\begin{array}{llll}936 & -4 & 3 & 360\end{array}$
$\begin{array}{llll}936 & -3 & 4 & 11\end{array}$
$\begin{array}{llll}936 & -3 & 3 & 22\end{array}$
$\begin{array}{llll}937 & -3 & 5330\end{array}$
$\begin{array}{llll}939 & -4 & 5 & 347\end{array}$
$\begin{array}{llll}939 & -3 & 8 & 360\end{array}$
$\begin{array}{llll}940 & -5 & 6 & 14\end{array}$
DAY 9
926-14 1298
926-15 0
926-15 $2 \quad 61$
$\begin{array}{llll}926 & -14 & 1 & 25\end{array}$
926-13 232
926-13 24
$\begin{array}{llll}926 & -13 \quad 4 & 32\end{array}$
926-13 $4 \quad 37$
DAY 16
$\begin{array}{llll}926 & -16 & 9 & 74\end{array}$
926-17 966
926-18 $10 \quad 52$
926-19 $9 \quad 46$
926-20 $10 \quad 39$
$\begin{array}{llll}926 & -20 & 10 & 39\end{array}$
927-19 $8 \quad 36$
$\begin{array}{llll}928 & -18 & 8 & 25\end{array}$ DAY 23
$\begin{array}{llll}920 & -8 & 7 & 50\end{array}$
$\begin{array}{llll}920 & -7 & 4 & 50\end{array}$
$\begin{array}{llll}920 & -9 & 4 & 5\end{array}$
922-10 $5 \quad 8$
$\begin{array}{llll}922 & -13 & 6 & 37\end{array}$
$\begin{array}{llll}922 & -14 & 8 & 46\end{array}$
922-15 $8 \quad 43$
922-13 $6 \quad 57$

| PP |  |  | DD |
| :---: | :---: | :---: | :---: |
|  | DAY | 3 |  |
| 940 | -6 | 6 | 23 |
| 939 | -11 | 5 | 37 |
| 939 | -11 | 6 | 42 |
| 938 | -10 | 7 | 37 |
| 937 | -10 1 | 11 | 42 |
| 936 | -8 | 9 | 56 |
| 936 | -7 | 8 | 46 |
|  | DAY | 10 |  |
| 927 | -13 | 3 | 39 |
| 927 | -14 | 5 | 40 |
| 928 | -15 | 6 | 49 |
| 928 | -15 | 7 | 60 |
| 928 | -15 | 6 | 68 |
| 929 | -14 | 5 | 68 |
| 929 | -13 | 6 | 52 |
| 930 | -14 | 6 | 46 |
|  | DAY | 17 |  |
| 929 | -17 | 4 | 18 |
| 930 | -18 | 0 | 0 |
| 932 | -22 | 1 | 9 |
| 934 | -22 | 2 | 21 |
| 934 | -19 | 3 | 14 |
| 933 | -19 | 5 | 36 |
| 932 | -18 | 5 | 40 |
| 932 | -18 | 5 | 33 |
|  |  | 24 |  |
| 923 | -15 | 6 | 99 |
| 923 | -16 | 7 | 118 |
| 923 | -20 | 9 | 88 |
| 923 | -22 | 4 | 71 |
| 924 | -24 | 3 | 63 |
| 924 | -25 | 5 | 73 |
| 925 | -23 | 7 | 33 |
| 926 | -21 | 6 | 22 |

PP TT VV DD

$$
\text { DAY } 4
$$

| 935 | -6 | 8 | 32 |
| :--- | :--- | :--- | :--- |


| 935 | -6 | 6 | 19 |
| :--- | :--- | :--- | :--- |


| 934 | -6 | 6 | 39 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}934 & -6 & 5 & 46 \\ 934 & -5 & 6 & 40\end{array}$
$\begin{array}{llll}934 & -4 & 5 & 33\end{array}$
$\begin{array}{llll}934 & -4 & 6 & 33\end{array}$
$\begin{array}{llll}934 & -3 & 6 & 28\end{array}$

## DAY 11

931-15 $7 \quad 67$
$\begin{array}{llll}931 & -17 & 7 & 70\end{array}$
$\begin{array}{llll}931 & -17 & 8 & 59\end{array}$
930-18 $12 \quad 46$
$\begin{array}{lllll}931 & -17 & 10 & 37\end{array}$
$\begin{array}{llll}932 & -17 & 8 & 36\end{array}$
$\begin{array}{llll}933 & -17 & 7 & 37\end{array}$
932-17 $6 \quad 50$
DAY 18
$\begin{array}{llll}930 & -17 & 5 & 43\end{array}$
$\begin{array}{llll}929-18 & 4 & 30\end{array}$
928-20 $4 \quad 29$
$\begin{array}{llll}927 & -22 & 5 & 29\end{array}$
$927-22 \quad 4 \quad 26$
926-23 $6 \quad 30$
$\begin{array}{llll}925 & -21 \quad 7 \quad 33\end{array}$
925-20 $4 \quad 25$
DAY 25
928-21 545
928-23 $6 \quad 26$
$\begin{array}{llll}930 & -25 & 6 & 28\end{array}$
$\begin{array}{llll}932 & -26 & 8 & 16\end{array}$
934-27 $6 \quad 22$
$\begin{array}{llll}936 & -26 & 6 & 19\end{array}$
$\begin{array}{llll}938 & -23 & 7 & 16\end{array}$
939-22 640

| PP |  | vV | DD |
| :---: | :---: | :---: | :---: |
|  | DAY |  |  |
| 934 | -3 | 8 | 12 |
| 935 | -3 | 5 | 19 |
| 936 | -3 | 3 | 21 |
| 937 | -3 | 3 | 33 |
| 937 | -3 | 4 | 35 |
| 937 | -3 | 5 | 35 |
| 937 | -3 | 6 | 35 |
| 936 | -4 | 6 | 37 |
| DAY 12 |  |  |  |
| 931 | -16 | 6 | 43 |
| 930 | -17 | 4 | 52 |
| 929 | -20 | 3 | 59 |
| 928 | -22 | 5 | 50 |
| 927 | -21 | 4 | 32 |
| 926 | -18 | 2 | 94 |
| 925 | -15 | 2 | 4 |
| 923 | -15 | 2 | 74 |
| DAY 19 |  |  |  |
| 926 | -18 | 1 | 360 |
| 927 | -22 | 1 | 344 |
| 930 | -25 | 0 | 0 |
| 932 | -27 | 2 | 360 |
| 935 | -28 | 0 | 0 |
| 937 | -25 | 0 | 0 |
| 938 | -22 | 1 | 14 |
| 938 | -21 | 3 | 345 |
| DAY 26 |  |  |  |
| 940 | -22 | 7 | 36 |
| 940 | -22 | 13 | 39 |
| 940 | -24 | 10 | 43 |
| 940 | -23 | 7 | 42 |
| 939 | -24 | 8 | 35 |
| 938 | -24 | 7 | 33 |
| 937 | -22 | 5 | 43 |
| 936 | -21 | 8 | 36 |


| PP |  | N | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY 6 |  |  |  | DAY |  |  |  |
| 935 | -4 | 8 | 36 | 928 | -5 | 5 | 4 |
| 934 | -3 | 3 | 11 | 927 | -5 | 4 | 15 |
| 934 | -3 | 1 | 313 | 926 | -5 | 4 | 23 |
| 934 | -4 | 1 | 18 | 925 | -6 | 3 | 35 |
| 933 | -5 | 2 | 25 | 925 | -7 | 5 | 46 |
| 931 | -4 | 2 | 30 | 923 | -7 | 6 | 47 |
| 930 | -5 | 4 | 33 | 923 | -6 | 7 | 29 |
| 929 | -5 | 6 | 29 | 923 | -6 | 6 | 37 |
| DAY 13 |  |  |  | DAY 14 |  |  |  |
| 922 | -12 | 2 | 63 | 920 | -14 | 6 | 53 |
| 922 | -12 | 3 | 61 | 921 | -16 | 9 | 46 |
| 921 | -14 | 4 | 52 | 922 | -18 | 9 | 64 |
| 920 | -15 | 5 | 42 | 923 | -19 | 8 | 49 |
| 921 | -16 | 4 | 42 | 924 | -20 | 7 | 53 |
| 920 | -16 | 3 | 70 | 923 | -19 | 8 | 66 |
| 920 | -14 | 1 | 59 | 924 | -17 | 11 | 42 |
| 920 | -14 | 6 | 40 | 924 | -16 | 9 | 54 |
| DAY 20 |  |  |  | DAY 21 |  |  |  |
| 938 | -21 | 1 | 360 | 926 | -18 | 7 | 46 |
| 937 | -21 | 2 | 37 | 924 | -18 | 9 | 49 |
| 936 | -20 | 4 | 60 | 923 | -19 | 8 | 67 |
| 934 | -20 | 5 | 43 | 922 | -18 | 11 | 49 |
| 933 | -20 | 6 | 42 | 920 | -18 | 11 | 49 |
| 931 | -19 | 7 | 37 | 919 | -16 | 11 | 46 |
| 929 | -19 | 6 | 42 | 917 | -14 | 11 | 57 |
| 927 | -18 | 7 | 35 | 916 | -13 | 14 |  |
| DAY 27 |  |  |  | DAY 28 |  |  |  |
| 935 | -20 | 6 | 33 | 919 | -19 | 5 | 70 |
| 933 | -18 | 4 | 42 | 916 | -22 | 7 | 95 |
| 932 | -19 | 3 | 37 | 914 | -22 | 7 | 85 |
| 930 | -18 | 3 | 21 | 912 | -21 | 11 | 66 |
| 929 | -18 | 3 | 1 | 910 | -21 | 10 | 53 |
| 926 | -18 |  | 360 | 909 | -20 | 11 | 36 |
| 924 | -16 | 4 | 23 | 909 | -17 | 12 | 53 |
| 922 | -17 | 6 | 43 | 908 |  | 14 | 49 |

MONTHLY SUMMARY

* tEmPERATURE ( $C$ ) * MEAN $=-14.4$ STD DEV $=6.6$ MAX $=-2.2$ AT 350 GMT ON DAY 6 MIN $=-27.9$ AT 800 GMT ON DAY 19
* theta (K) * MEAN $=264.39$
* PRESSURE (MB) * MEAN $=928.1$ STD DEV $=6.7 \mathrm{MAX}=940.4$ AT 2310 GMT ON DAY 2 MIN $=908.0$ AT 2040 GMT ON DAY 28
* WINDS (M/S) * MEAN $=5.6$ STD DEV $=2.9$ RESULTANT $=5.2$ FROM 42. CONSTANCY $=0.93 \mathrm{MAX}=16.0$ FROM 56. AT 1650 GMT DAY 21 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$
 $\begin{array}{llllllllllllllllll}\text { PERCENT: } & 14 & 17 & 26 & 21 & 13 & & 7 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \\ \text { HIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
$\begin{array}{lrrrrrrrrrrrrrrrr} \\ \text { PIND DIRECTION: } & 10 & 24 & 42 & 16 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 4\end{array}$

MAR 97
HR PP TTVV DD

|  |  | DAY | 1 |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 909 | -12 | 9 | 50 | $\begin{array}{lllll}03 & 909 & -10 & 9 & 50\end{array}$ $\begin{array}{lllll}06 & 909 & -11 & 11 & 43\end{array}$ $\begin{array}{lllll}09 & 910 & -9 & 7 & 61\end{array}$ $\begin{array}{lllll}12 & 911 & -9 & 7 & 61\end{array}$ $\begin{array}{lllll}15 & 912 & -9 & 6 & 60\end{array}$ $\begin{array}{lllll}18 & 913 & -8 & 10 & 46\end{array}$ $\begin{array}{lllll}21 & 914 & -8 & 7 & 46\end{array}$ DAY 8

$\begin{array}{lllll}00 & 911 & -20 & 10 & 77\end{array}$ $\begin{array}{lllll}03 & 911 & -20 & 13 & 53\end{array}$ $\begin{array}{lllll}06 & 911 & -21 & 13 & 56\end{array}$ $\begin{array}{lllll}09 & 912 & -22 & 14 & 57\end{array}$ $\begin{array}{lllll}12 & 912 & -22 & 13 & 53\end{array}$ $\begin{array}{lllll}15 & 913 & -21 & 15 & 47\end{array}$ $\begin{array}{lllll}18 & 914 & -20 & 15 & 59\end{array}$ $\begin{array}{ll}21 & 915-1914 \quad 54\end{array}$ DAY 15
$\begin{array}{rrrrr}00 & 923-15 & 0 & 0 \\ 03 & 923 & -19 & 5 & 29\end{array}$ $\begin{array}{lllll}06 & 923 & -19 & 4 & 37\end{array}$ $\begin{array}{lllll}09 & 922 & -17 & 5 & 52\end{array}$ $\begin{array}{lllll}12 & 921 & -17 & 7 & 32\end{array}$ $\begin{array}{lllll}15 & 920 & -17 & 5 & 57\end{array}$ $\begin{array}{lllll}18 & 919 & -17 & 7 & 50\end{array}$ $\begin{array}{lllll}21 & 917 & -16 & 10 & 37\end{array}$

$$
\text { DAY } 22
$$

$\begin{array}{lllll}00 & 926 & -16 & 13 & 35\end{array}$ $\begin{array}{lllll}03 & 927 & -16 & 7 & 29\end{array}$ $\begin{array}{lllll}06 & 928 & -16 & 8 & 32\end{array}$ $\begin{array}{lllll}09 & 927 & -16 & 10 & 37\end{array}$ $\begin{array}{llll}12 & 928 & -19 & 9\end{array}$
$\begin{array}{lllll}15 & 928 & -20 & 11 & 40\end{array}$
$\begin{array}{lllll}18 & 928 & -20 & 8 & 57\end{array}$
$\begin{array}{llll}21 & 928-19 & 8 & 61\end{array}$

## DAY 29

$\begin{array}{lllll}00 & 893 & -15 & 24 & 59\end{array}$
$\begin{array}{lllll}03 & 895 & -16 & 19 & 73\end{array}$
$\begin{array}{llll}06 & 896 & -15 & 24 \\ 71\end{array}$
$\begin{array}{llll}09 & 899 & -16 & 20 \\ 63\end{array}$
$\begin{array}{lllll}12 & 901 & -16 & 22 \quad 59\end{array}$
$\begin{array}{lllll}15 & 904 & -17 & 19 & 60\end{array}$
$\begin{array}{lllll}18 & 906 & -17 & 18 & 54\end{array}$
$\begin{array}{lllll}21 & 906 & -18 & 15 & 56\end{array}$

PP TT VV DD PP TT VV DD

$$
\text { DAY } 2
$$

$\begin{array}{llll}916 & -9 & 8 & 36\end{array}$
$\begin{array}{llll}918 & -9 & 6 & 36\end{array}$
920-10 2360
$\begin{array}{llll}921 & -13 & 3 & 4\end{array}$
$\begin{array}{llll}923 & -17 & 4 & 28\end{array}$
923-17 $4 \quad 26$
923-19 $3 \quad 42$
923-19 $3 \quad 42$
DAY 9
916-18 $14 \quad 52$
916-19 $12 \quad 39$
917-19 $11 \quad 36$
918-20 $12 \quad 35$
$\begin{array}{llll}919 & -21 & 8 & 30\end{array}$
920-22 $6 \quad 26$
921-20 2331
922-20 0 DAY 16
916-15 1146
915-15 $10 \quad 40$
915-16 $5 \quad 19$
915-18 0
915-19 514
$\begin{array}{llll}913 & -24 & 3 & 50\end{array}$
$\begin{array}{llll}912 & -24 & 3 & 43\end{array}$
$\begin{array}{llll}911 & -25 \quad 3 & 66\end{array}$
DAY 23
$\begin{array}{llll}928 & -24 & 3 & 95\end{array}$
927-24 $4 \quad 97$
927-23 $4 \quad 73$
927-18 246
$\begin{array}{llll}926 & -21 & 3 & 15\end{array}$
$\begin{array}{llll}926 & -26 & 5 & 18\end{array}$
$\begin{array}{llll}926 & -25 & 3 & 81\end{array}$
926-25 616
DAY 30
908-18 $13 \quad 63$
909-19 $19 \quad 60$
910-19 $13 \quad 43$
911 -20 $15 \quad 49$
911-21 $10 \quad 46$
910-22 $14 \quad 53$
908-21 $19 \quad 54$
909-18 $14 \quad 36$

PP TT VV DD DAY 3
922-15 $3 \quad 59$
$\begin{array}{llll}921 & -14 & 3 & 77\end{array}$
921-15 239
920 -14364
$\begin{array}{llll}920 & -14 & 3 & 63\end{array}$
$\begin{array}{llll}919 & -14 & 68\end{array}$
$\begin{array}{llll}919 & -16 & 7 & 85\end{array}$
918-15 $\quad 5 \quad 97$
DAY 10
923-22 1265
922-23 1236
921-24 0 0
919-23 0
$\begin{array}{llll}917 & -22 & 3 & 77\end{array}$
914-23 $6 \quad 61$
$\begin{array}{llll}911 & -24 & 9 & 43\end{array}$
909-25 943 DAY 17
$\begin{array}{llll}910 & -25 & 2 & 63\end{array}$
$\begin{array}{llll}910 & -23 & 2 & 91\end{array}$
$\begin{array}{llll}910 & -27 \quad 4 & 73\end{array}$
$\begin{array}{llll}911 & -25 \quad 4 & 74\end{array}$
$\begin{array}{llll}913 & -26 & 4 & 71\end{array}$
$\begin{array}{llll}915 & -24 & 1 & 98\end{array}$
$\begin{array}{llll}917 & -22 & 2 & 39\end{array}$
$\begin{array}{llll}918 & -25 \quad 7 \quad 12\end{array}$ DAY 24
926-26 414
$\begin{array}{llll}926 & -28 & 3 & 33\end{array}$
926-29-3 360
927-29 $5 \quad 11$
928-29 $6 \quad 26$
$\begin{array}{llll}929 & -29 & 62\end{array}$
$\begin{array}{llll}930 & -31 & 4 & 37\end{array}$
$\begin{array}{llll}931 & -28 & 7 & 23\end{array}$ DAY 31
913-18 $8 \quad 22$
916-25 $4 \quad 237$
916-25 1254
917-27 0
916-31 $6 \quad 33$
912-27 $15 \quad 46$
$\begin{array}{lll}907 & -23 & 18 \quad 64\end{array}$

PP TT VV DD DAY 4
916-14 950
915-14 $10 \quad 43$
913-13 $10 \quad 53$
912-13 $10 \quad 77$
$\begin{array}{llll}911 & -16 & 8 & 99\end{array}$
$\begin{array}{llll}909 & -14 & 9 & 57\end{array}$
$\begin{array}{llll}909 & -14 & 8 & 50\end{array}$
909-13 $12 \quad 43$
DAY 11
$\begin{array}{llll}908 & -25 & 7 & 52\end{array}$
$\begin{array}{llll}907 & -24 & 2 & 87\end{array}$
$\begin{array}{llll}906 & -26 & 5 & 85\end{array}$
$\begin{array}{lll}906 & -26 \quad 5 \quad 101\end{array}$
$\begin{array}{llll}906 & -22 & 9 & 75\end{array}$
$\begin{array}{llll}905 & -20 & 10 \quad 75\end{array}$
$\begin{array}{llll}903 & -19 & 11 & 88\end{array}$
901-18 $13 \quad 77$

## DAY 18

$\begin{array}{llll}920 & -28 & 4 & 12\end{array}$
$\begin{array}{llll}921 & -31 & 2 & 11\end{array}$
922-31 0
$\begin{array}{llll}923 & -37 & 1 & 21\end{array}$
$\begin{array}{llll}923 & -34 & 3 & 25\end{array}$
$\begin{array}{llll}923 & -37 & 7 & 23\end{array}$
$\begin{array}{llll}923 & -37 & 7 & 23\end{array}$
$\begin{array}{llll}923 & -37 & 8 & 29\end{array}$

## DAY 25

 $\begin{array}{llll}932 & -29 & 4 & 22\end{array}$ 933-30 $\quad 6 \quad 28$$\begin{array}{llll}933 & -30 & 7 & 43\end{array}$
$\begin{array}{llll}935 & -32 \quad 4 \quad 29\end{array}$
935-32 $\quad 6 \quad 30$
$\begin{array}{llll}935 & -32 & 8 & 32\end{array}$
$\begin{array}{llll}934 & -32 & 8 & 43\end{array}$
$\begin{array}{llll}932 & -31 & 11 \quad 35\end{array}$

PP TT VV DD PP TT VV DD PP TTV DD DAY $5 \quad$ DAY 6
912-15 $12 \quad 47$
$\begin{array}{llll}913 & -17 & 11 & 37\end{array}$
914-15 $6 \quad 54$
913-14 $13 \quad 47$
913-14 1046
913-13 $12 \quad 37$
$\begin{array}{llll}913 & -16 & 6 & 68 \\ 912 & 14 & 12 & 68\end{array}$
912-14 $12 \quad 68$
DAY 12
898-17 $14 \quad 67$
897-22 12108
896-23 15111
895-23 15125
895-22 8113
895-19 $9 \quad 95$
893-15 $15 \quad 66$
893-12 $13 \quad 53$

## DAY 19

$\begin{array}{llll}924 & -37 & 7 & 28\end{array}$
$\begin{array}{llll}923 & -37 & 7 & 21\end{array}$
$\begin{array}{llll}923 & -38 & 6 & 29\end{array}$
$\begin{array}{llll}924 & -37 & 8 & 28\end{array}$
$\begin{array}{llll}924 & -37 & 9 & 23\end{array}$
$\begin{array}{llll}923 & -36 & 9 & 28\end{array}$
$\begin{array}{llll}923 & -35 & 8 & 39\end{array}$
$\begin{array}{llll}923 & -33 & 8 & 33\end{array}$
DAY 26

## 931-30 $10 \quad 39$

$\begin{array}{llll}928 & -30 & 9 & 33\end{array}$
$\begin{array}{llll}926 & -29 & 11 \quad 43\end{array}$
$\begin{array}{llll}923 & -28 & 9 & 47\end{array}$
$\begin{array}{llll}921 & -27 & 11 \quad 33\end{array}$
$\begin{array}{llll}920 & -26 & 9 & 37\end{array}$
$\begin{array}{llll}920 & -26 & 6 & 75\end{array}$
$\begin{array}{lll}920 & -27 \quad 3 \quad 94\end{array}$
$\begin{array}{llll}912 & -14 & 9 & 75\end{array}$
912-15 $10 \quad 73$
912-15 $12 \quad 73$
913-16 $11 \quad 71$
913-19 $4 \quad 99$
913-16 $13 \quad 50$
913-15 $9 \quad 50$
912-17 636 DAY 13
894-10 $8 \quad 49$
$\begin{array}{llll}895 & -9 & 7 & 53\end{array}$
$\begin{array}{llll}897 & -9 & 8 & 40\end{array}$
$\begin{array}{llll}898 & -8 & 8 & 39\end{array}$
$\begin{array}{llll}901 & -8 & 7 & 43\end{array}$
$\begin{array}{llll}902 & -8 & 11 & 23\end{array}$
$\begin{array}{llll}905 & -7 & 9 & 25\end{array}$
$\begin{array}{llll}908 & -8 & 7 & 32\end{array}$

## DAY 20

922-32 $10 \quad 37$
$\begin{array}{llll}920 & -28 & 11 & 21\end{array}$
920-27 $12 \quad 32$
$\begin{array}{llll}920 & -26 & 9 & 35\end{array}$
$\begin{array}{lllll}920 & -24 & 11 & 49\end{array}$
$\begin{array}{llll}919 & -22 & 13 & 37\end{array}$
919-21 $14 \quad 35$
919-19 1446
DAY 27
918-27 653
$\begin{array}{lll}918 & -29 \quad 5 \quad 70\end{array}$
$\begin{array}{llll}918 & -27 & 3 & 109\end{array}$
917-27 4101
$\begin{array}{llll}917 & -27 & 7 & 53\end{array}$
$\begin{array}{llll}916 & -25 & 6 & 57\end{array}$
$\begin{array}{llll}915 & -25 & 9 & 60\end{array}$
$913-23 \quad 11 \quad 61$

DAY 7
913-16 $3 \quad 91$
912-18 $\quad 5 \quad 60$
911-19 $11 \quad 45$
$\begin{array}{llll}912 & -21 & 3 & 80\end{array}$
912-20 $8 \quad 66$
911-21 $10 \quad 49$
$911-21 \quad 11 \quad 60$
911 -20 1154
DAY 14
$\begin{array}{llll}911 & -8 & 7 & 35\end{array}$
$\begin{array}{llll}913 & -9 & 5 & 22\end{array}$
915-10 $4 \quad 4$
$\begin{array}{llll}917 & -13 & 3 & 15\end{array}$
$919-16 \quad 4 \quad 40$
$\begin{array}{llll}920 & -14 & 5 & 43\end{array}$
$\begin{array}{llll}921 & -16 & 5 & 37\end{array}$
922-18 $3 \quad 32$
DAY 21
919-17 1549
920-17 $12 \quad 43$
$\begin{array}{lllll}920 & -15 & 14 & 54\end{array}$
921-15 $12 \quad 43$
922-15 $12 \quad 40$
$\begin{array}{llll}922 & -15 & 17 & 37\end{array}$
$\begin{array}{lllll}924 & -16 & 12 & 35\end{array}$
925-16 $12 \quad 40$
DAY 28
909-21 $18 \quad 66$
$\begin{array}{llll}906 & -22 & 16 \quad 71\end{array}$
903 -21 $17 \quad 71$
$899-20 \quad 18 \quad 77$
896-19 $22 \quad 81$
893-17 $23 \quad 77$
892-17 $24 \quad 66$
893-16 $21 \quad 73$

* temperature ( $C$ ) * mean $=-20.4$ STD dev $=6.9$ MAX $=-6.9$ AT 1740 GMT ON DAY 13 MIN $=-37.9$ AT 450 GMT ON DAY 19
* theta (K) * MEAN $=259.21$
* PRESSURE (MB) * MEAN $=915.3$ STD DEV $=9.3$ MAX $=935.3$ at 1220 GMT ON DAY 25 MIN $=891.4$ AT 1630 GMT ON DAY 28
* WINDS (M/S) * MEAN $=8.5 \mathrm{STD} \operatorname{dEV}=5.1$ RESULTANT $=7.9$ FROM 52. CONSTANCY $=0.93$ MAX $=29.1$ from 77. at 1310 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

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STATION : 21357 J.C.
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APR 97

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 902 & -17 & 16 & 54\end{array}$
$\begin{array}{lllll}03 & 902 & -17 & 19 & 54\end{array}$
$\begin{array}{lllll}06 & 903 & -15 & 13 & 46\end{array}$
$\begin{array}{lllll}09 & 905 & -16 & 7 & 43\end{array}$
$\begin{array}{lllll}12 & 908 & -20 & 8 & 28\end{array}$
$\begin{array}{lllll}15 & 910 & -19 & 11 & 49\end{array}$
$\begin{array}{lllll}18 & 911 & -18 & 12 & 43\end{array}$
$\begin{array}{lllll}21 & 914 & -20 & 7 & 21\end{array}$
DAY 8
$\begin{array}{lllll}00 & 919 & -18 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 920 & -19 & 0 & 0\end{array}$
$\begin{array}{lllll}06 & 922 & -21 & 3 & 360\end{array}$
$\begin{array}{lllll}09 & 924 & -24 & 3 & 29\end{array}$
$\begin{array}{lllll}12 & 926 & -25 & 6 & 19\end{array}$
$\begin{array}{lllll}15 & 927 & -26 & 12 & 23\end{array}$
$\begin{array}{lllll}18 & 928 & -26 & 7 & 19\end{array}$
$\begin{array}{llll}21 & 927 & -26 & 6\end{array}$ DAY 15
$\begin{array}{lllll}00 & 917 & -22 & 14 & 70\end{array}$
$\begin{array}{lllll}03 & 919 & -23 & 12 & 74\end{array}$
$\begin{array}{lllll}06 & 920 & -22 & 12 \quad 57\end{array}$
$\begin{array}{lllll}09 & 920 & -22 & 11 & 54\end{array}$
$\begin{array}{lllll}12 & 921 & -21 & 8 & 37\end{array}$
$\begin{array}{lllll}15 & 921 & -18 & 12 & 66\end{array}$
$\begin{array}{lllll}18 & 921 & -21 & 6 & 46\end{array}$
$\begin{array}{llll}21 & 922 & -20 & 6\end{array}$

## DAY 22

$\begin{array}{llll}00 & 929 & -31 & 13 \\ 32\end{array}$
$\begin{array}{llllll}03 & 929 & -32 & 12 & 36\end{array}$
$\begin{array}{lllll}06 & 929 & -32 & 12 & 26\end{array}$
$\begin{array}{lllll}09 & 929 & -32 & 10 & 30\end{array}$
$\begin{array}{lllll}12 & 928 & -31 & 11 & 30\end{array}$
$\begin{array}{lllll}15 & 928 & -29 & 8 & 36\end{array}$
$\begin{array}{lllll}18 & 927 & -28 & 12 & 29\end{array}$
$\begin{array}{llll}21 & 927 & -28 & 6\end{array}$ DAY 29
$\begin{array}{lllll}00 & 911 & -26 & 9 & 53\end{array}$
$\begin{array}{lllll}03 & 911 & -26 & 10 & 54\end{array}$
$\begin{array}{lllll}06 & 912 & -27 & 13 & 45\end{array}$
$\begin{array}{lllll}09 & 914 & -30 & 9 & 49\end{array}$
$\begin{array}{llllll}12 & 913 & -27 & 17 & 74\end{array}$
$\begin{array}{lllll}15 & 911 & -26 & 17 & 70\end{array}$
$\begin{array}{lllll}18 & 907 & -25 & 23 & 82\end{array}$
$\begin{array}{llll}21 & 905 & -23 & 17\end{array}$

PP TT VV DD PP TT VV DD DAY 2
916-20 $8 \quad 47$
$\begin{array}{lllll}915 & -20 & 11 & 42\end{array}$
914-19 $13 \quad 35$
914-19 $15 \quad 50$
914-19 $14 \quad 52$
915-18 $14 \quad 40$
$\begin{array}{llllllll}915 & -18 & 19 & 39 & 923 & -19 & 17 & 47\end{array}$
 DAY 10
$\begin{array}{llllllll}927 & -31 & 6 & 26 & 918 & -32 & 10 & 33\end{array}$
$\begin{array}{llllllll}925 & -31 & 7 & 35 & 917 & -32 & 10 & 26\end{array}$
$\begin{array}{llllllll}924 & -28 & 5 & 29 & 916 & -32 & 11 & 29\end{array}$
$\begin{array}{llllllll}922 & -29 & 7 & 28 & 915 & -31 & 9 & 30\end{array}$
$\begin{array}{llllllll}921 & -31 & 8 & 28 & 914 & -31 & 12 & 35\end{array}$
$\begin{array}{llllllll}920 & -32 & 7 & 30 & 913 & -31 & 12 & 32\end{array}$
$\begin{array}{llllllll}919 & -33 & 8 & 32 & 912 & -29 & 10 & 47\end{array}$

DAY 17
$\begin{array}{llllllll}922 & -21 & 8 & 33 & 923 & -15 & 7 & 94\end{array}$
$\begin{array}{llllllll}921 & -18 & 15 & 43 & 923 & -14 & 7 & 104\end{array}$
$\begin{array}{llllllll}922 & -19 & 6 & 60 & 922 & -12 & 10 & 92\end{array}$
$\begin{array}{llllllllllllll}921 & -17 & 15 & 54 & 922 & -12 & 15 & 73\end{array}$
$\begin{array}{lllllll}922 & -17 & 13 & 54 & 927 & -15 & 2\end{array} 15$
$\begin{array}{llllllll}923 & -17 & 6 & 101 & 930 & -23 & 1 & 334\end{array}$
$\begin{array}{llllllll}923 & -15 & 6 & 99 & 932 & -15 & 8 & 50\end{array}$
$\begin{array}{llllllll}923 & -15 & 4 & 59 & 934 & -14 & 6 & 57\end{array}$
DAY 24
$\begin{array}{llllllll}929 & -32 & 0 & 0 & 917 & -28 & 18 & 42\end{array}$
$\begin{array}{llllllll}929 & -35 & 5 & 16 & 914 & -25 & 17 & 45\end{array}$
$\begin{array}{llllllll}930 & -36 & 7 & 18 & 913 & -22 & 13 & 40\end{array}$
$\begin{array}{llllllll}930 & -35 & 9 & 28 & 911 & -20 & 15 & 49\end{array}$
$\begin{array}{llllllll}928 & -35 & 10 & 28 & 913 & -18 & 11 & 21\end{array}$
$\begin{array}{llllllll}926 & -33 & 9 & 45 & 920 & -26 & 6 & 302\end{array}$
$\begin{array}{lllllllllll}922 & -32 & 11 & 61 & 927 & -29 & 5 & 360\end{array}$
$\begin{array}{llllllll}919 & -31 & 13 & 50 & 931 & -29 & 8 & 9\end{array}$

PP TT VV DD DAY 4
923-19 $16 \quad 63$
921-18 $19 \quad 60$
921-18 $17 \quad 63$
922-17 $20 \quad 63$
922-17 $16 \quad 57$
921-15 $18 \quad 66$
921-14 $14 \quad 75$
921-14 $18 \quad 73$

## DAY 11

910-27 $13 \quad 30$
908-27 $14 \begin{array}{lll} & 39\end{array}$
908-27 $13 \quad 36$
906-26 $10 \quad 57$
906-25 $12 \quad 52$
906-24 $12 \quad 59$
906-24 $13 \quad 60$
907-22 $14 \quad 70$
DAY 18
937-30 1189
$\begin{array}{llll}937 & -30 & 2192\end{array}$
938-30 0
939-21 2180
940-14 $8 \quad 52$
$\begin{array}{llll}940 & -13 & 5 & 84\end{array}$
$\begin{array}{llll}941 & -14 & 9 & 61\end{array}$
940-12 $11 \quad 71$ DAY 25
931-31 $12 \quad 32$
$\begin{array}{lllll}930 & -32 & 14 & 43\end{array}$
$\begin{array}{lllll}927 & -30 & 12 \quad 54\end{array}$
923-26 1461
918-23 $21 \quad 54$
$913-231947$
$910-20 \quad 18 \quad 50$
909-17 $16 \quad 40$

PP IT VV DD DAY 5
918-13 $20 \quad 73$
915-10 $20 \quad 63$
$\begin{array}{lll}915 & -9 & 21 \quad 60\end{array}$
918-10 $23 \quad 68$
924-12 $22 \quad 57$
924-14 19 57
925-14 $23 \quad 53$
925-14 $17 \quad 52$ DAY 12
$\begin{array}{lll}907 & -24 & 15 \quad 75\end{array}$
908-24 $17 \quad 60$
$\begin{array}{llll}910 & -25 & 13 & 57\end{array}$
$911-2418 \quad 57$
913-25 $15 \quad 50$
$\begin{array}{llll}914 & -27 & 10 & 73\end{array}$
915-28 $14 \quad 64$
915-27 $13 \quad 68$ DAY 19
939-15 3285
939-18 6338
940-18 00
940-18 0
939-16 5246
938-20 5258
939-23 6
$939-23 \quad 4230$

## DAY 26

910-16 946
916-19 5299
921-23 0 0
$\begin{array}{llll}922 & -21 & 3 & 7\end{array}$
921-22 00
$\begin{array}{llll}917 & -21 & 8 & 85\end{array}$
$\begin{array}{llll}915 & -18 & 8 & 53\end{array}$
$\begin{array}{llll}913 & -21 & 68\end{array}$

PP TT VV DD DAY 6
923-13 $18 \quad 64$
921-11 $14 \quad 45$
$\begin{array}{llll}920 & -9 & 17 & 37\end{array}$
$\begin{array}{llll}920 & -10 & 18 & 49\end{array}$
920-10 $19 \quad 47$
919-11 $14 \quad 60$
917-11 $17 \quad 60$
916-11 1854 DAY 13
914-28 $10 \quad 54$
915-26 $14 \quad 57$
915 -26 $17 \quad 52$
$915-2811 \quad 52$
$913-271252$
$\begin{array}{llll}913 & -27 & 8 & 40\end{array}$
$\begin{array}{llll}911 & -25 & 11 & 64\end{array}$
911 -24 $14 \quad 60$ DAY 20
939-25 3360
$\begin{array}{llll}938 & -27 & 6 & 21\end{array}$
$\begin{array}{llll}939 & -26 & 8 & 16\end{array}$
$\begin{array}{llll}937 & -29 & 3 & 25\end{array}$
937-30 4360
$\begin{array}{llll}936 & -28 & 8 & 8\end{array}$
$\begin{array}{llll}936 & -30 & 5 & 71\end{array}$
$\begin{array}{llll}935 & -31 & 7 & 54\end{array}$ DAY 27
911-23 799
$\begin{array}{llll}910 & -22 & 9 & 90\end{array}$
908-20 $10 \quad 61$
907-19 977
$\begin{array}{lllll}906 & -17 & 14 & 73\end{array}$
$\begin{array}{llll}906 & -17 & 18 & 74\end{array}$
908-19 $16 \quad 66$
912-19 $12 \quad 64$

PP TT VV DD DAY 7
914-11 1949
$913-1016 \quad 54$
913-11 $20 \quad 50$
914-11 $17 \quad 46$
916-11 $14 \quad 47$
917-11 $10 \quad 54$
916-11 1147
918 -13 $6 \quad 35$
DAY 14
911 -24 $12 \quad 66$
$\begin{array}{llll}911 & -25 & 16 & 53\end{array}$
$911-2515 \quad 66$
911 -24 $14 \quad 73$
912-24 $14 \quad 67$
912-23 $17 \quad 54$
913-23 $17 \quad 60$
916-22 $14 \quad 73$ DAY 21
935-32 549
$\begin{array}{llll}933 & -33 & 8 & 33\end{array}$
$\begin{array}{llll}933 & -33 & 6 & 28\end{array}$
$\begin{array}{llll}931 & -32 & 5 & 53\end{array}$
$\begin{array}{llll}931 & -34 & 6120\end{array}$
$\begin{array}{lllll}930 & -31 & 7 & 91\end{array}$
930-33 6106
929-30 $9 \quad 35$
DAY 28
921-28 4360
924-29 0
924-32 0
$\begin{array}{llll}921 & -35 & 5 & 60\end{array}$
$\begin{array}{llll}917 & -34 & 7 & 66\end{array}$
913-29 $12 \quad 61$
911-29 $11 \quad 66$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-22.4$ Std dev $=6.7$ max $=-8.4$ at 410 gmt on day 5 min $=-35.9$ at 520 Gmt on day 23
* theta (K) * MEAN $=256.87$
* PRESSURE (MB) * MEAN $=919.9$ STD DEV $=9.3$ MAX $=940.9$ AT 1630 GMT ON DAY 18 MIN $=900.8$ AT 150 GMT ON DAY 1
* WINDS (M/S) * MEAN $=11.3$ STD DEV $=5.6$ RESULTANT $=10.5$ FROM 52. CONSTANCY $=0.94$ MAX $=29.1$ FROM 66. AT 830 GMT DAY 5 * MISSING 3-hourLy ObSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

MAY 97

| HR | PP |  |  | DD | PP | TT | VV | DD | PP | It | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | day | 3 |  |
| 00 | 917 | -20 | 15 | 43 | 912 | -24 | 15 | 47 | 912 | -21 | 7 | 19 |
| 03 | 923 | -28 | 7 | 18 | 908 | -21 | 18 | 61 | 911 | -22 | 18 | 53 |
| 06 | 925 | -28 | 6 | 16 | 904 | -20 | 22 | 56 | 909 | -23 | 19 | 53 |
| 09 | 926 | -28 | 7 | 19 | 904 | -17 | 17 | 50 | 907 | -22 | 20 | 66 |
| 12 | 926 | -29 | 5 | 33 | 904 | -16 | 16 | 53 | 905 | -20 | 20 | 53 |
| 15 | 923 | -32 | 2 | 82 | 906 | -16 | 17 | 43 | 904 | -20 | 21 | 54 |
| 18 | 919 | -30 | 8 | 49 | 908 | -18 | 16 | 42 | 902 | -20 | 22 | 49 |
| 21 | 916 | -26 | 15 | 45 | 908 | -19 | 19 | 53 | 900 | -19 | 24 | 66 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |
| 00 | 913 | -20 | 10 | 42 | 908 | -27 | 15 | 59 | 906 | -27 | 12 | 61 |
| 03 | 913 | -20 | 13 | 53 | 908 | -28 | 10 | 57 | 905 | -27 | 10 | 63 |
| 06 | 913 | -21 | 10 | 52 | 907 | -28 | 11 | 64 | 904 | -26 | 13 | 64 |
| 09 | 912 | -20 | 11 | 47 | 906 | -30 | 5 | 81 | 905 | -26 | 14 | 64 |
| 12 | 911 | -22 | 6 | 49 | 905 | -29 | 7 | 68 | 904 | -27 | 16 | 60 |
| 15 | 910 | -26 | 3 | 47 | 904 | -28 | 8 | 73 | 904 | -26 | 14 | 63 |
| 18 | 910 | -28 | 6 | 45 | 904 | -28 | 6 | 82 | 904 | -26 | 10 | 85 |
| 21 | 910 | -29 | 6 | 53 | 905 | -28 | 7 | 67 | 905 | -28 | 8 | 54 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |
| 00 | 926 | -31 | 14 | 37 | 919 | -15 | 16 | 46 | 927 | -14 | 5 | 33 |
| 03 | 926 | -30 | 14 | 47 | 921 | -15 | 19 | 50 | 929 | -17 | 7 | 29 |
| 06 | 925 | -28 | 15 | 50 | 920 | -16 | 17 | 53 | 930 | -18 | 7 | 33 |
| 09 | 924 | -25 | 19 | 49 | 917 | -16 | 21 | 54 | 930 | -19 | 9 | 56 |
| 12 | 920 | -23 | 19 | 60 | 912 | -13 | 20 | 57 | 928 | -17 | 11 | 68 |
| 15 | 918 | -22 | 21 | 57 | 914 | -12 | 23 | 43 | 925 | -18 | 14 | 53 |
| 18 | 914 | -20 | 23 | 66 | 918 | -12 | 14 | 40 | 922 | -18 | 20 | 59 |
| 21 | 914 | -16 | 28 | 54 | 923 | -13 | 9 | 33 | 920 | -16 | 6 | 71 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 4 |  |
| 00 | 913 | -33 | 13 | 33 | 898 | -20 | 17 | 82 |  |  |  |  |
| 03 | 912 | -33 | 13 | 33 | 895 | -18 | 22 | 75 |  |  |  |  |
| 06 | 911 | -31 | 14 | 35 | 892 | -19 | 21 | 67 |  |  |  |  |
| 09 | 910 | -31 | 11 | 40 |  |  |  |  |  |  |  |  |
| 12 | 908 | -29 | 12 | 57 |  |  |  |  |  |  |  |  |
| 15 | 905 | -26 | 12 | 67 |  |  |  |  |  |  |  |  |
| 18 | 902 | -24 | 23 | 56 |  |  |  |  |  |  |  |  |
| 21 | 901 | -21 | 20 | 54 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | DAY | 30 |  |  | DAY | 31 |  |
| 00 | 898 | -8 | 17. | 57 | 906 | -21 | 12 | 32 | 914 | -26 | 9 | 29 |
| 03 | 895 | -8 | 14 | 68 | 907 | -22 | 13 | 25 | 915 | -27 | 12 | 36 |
| 06 | 893 | -9 | 19 | 57 | 909 | -22 | 14 | 30 | 915 | -29 | 12 | 32 |
| 09 | 892 | -10 | 24 | 63 | 911 | -25 | 13 | 28 | 916 | -29 | 10 | 37 |
| 12 | 893 | -15 | 21 | 40 | 912 | -25 | 8 | 30 | 918 | -29 | 8 | 32 |
| 15 | 899 | -16 | 17 | 42 | 913 | -23 | 7 | 25 | 920 | -31 | 9 | 23 |
| 18 | 901 | -16 | 12 | 25 | 914 | -27 |  | 26 | 922 | -30 | 7 | 25 |
| 21 | 903 | -20 | 14 | 35 | 914 | -25 | 7 | 36 | 923 | -27 | 5 | 32 |



## MONTHLY SUMMARY

* temperature $(C) *$ mean $=-22.8$ Std dev $=7.2$ max $=-7.6$ at 2320 GMt on day 28 Min $=-38.4$ at 1120 GMt ON DAY 12
* theta (K) * MEAN $=257.16$
* PRESSURE (MB) * MEAN $=911.1$ STD DEV $=7.7$ MAX $=930.4$ AT 600 GMT ON DAY 17 MIN $=891.1$ AT 520 GMT ON DAY 23
$*$ WINDS (M/S) * MEAN $=13.5 \mathrm{STD}$ DEV $=5.4$ RESULTANT $=13.0$ FROM 50. CONSTANCY $=0.96$ MAX $=31.6$ FROM 67. AT 520 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $14.9 \%$ PRESSURE: $14.9 \%$ WINDS: $14.9 \%$
 PERCENT: $1 \begin{array}{lllllllllllllll} & 1 & 0 & 5 & 9 & 11 & 14 & 18 & 11 & 10 & 7 & 11 & 2 & 0 & 0\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 23 & 42 & 30 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { Vv } \\ 1 \end{array}$ | DD |  | $\begin{gathered} T T \\ \text { DAY } \end{gathered}$ |  | DD |  | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ |  | DD |  |  | $\begin{gathered} \text { VV } \\ 4 \end{gathered}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |  |  | W | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 924 | -25 | 4 | 43 | 918 | -28 | 5 | 104 | 922 | -30 | 4 | 66 | 925 | -21 | 15 | 37 | 914 | -16 | 14 | 21 | 919 | -14 | 15 | 29 | 914 |  |  | 54 |
| 03 | 925 | -24 | 4 | 46 | 919 | -30 | 10 | 111 | 923 | -28 | 3 | 91 | 924 | -21 | 14 | 32 | 916 | -19 | 10 | 22 | 920 | -14 | 19 | 33 | 910 | -9 | 19 | 53 |
| 06 | 924 | -25 | 6 | 29 | 920 | -31 | 13 | 118 | 925 | -26 | 10 | 45 | 922 | -21 | 13 | 33 | 916 | -19 | 13 | 26 | 923 | -14 | 15 | 29 | 913 | -9 | 14 | 29 |
| 09 | 923 | -24 | 8 | 49 | 920 | -31 | 18 | 111 | 926 | -26 | 13 | 30 | 920 | -21 | 20 | 36 | 916 | -18 | 14 | 33 | 924 | -16 | 16 | 30 | 915 | -11 | 18 | 35 |
| 12 | 922 | -23 | 8 | 40 | 920 | -31 | 15 | 111 | 927 | -26 | 14 | 35 | 919 | -18 | 16 | 33 | 916 | -16 | 14 | 29 | 925 | -17 | 15 | 52 | 916 | -15 | 14 | 39 |
| 15 | 920 | -26 | 8 | 36 | 920 | -30 | 15 | 105 | 928 | -24 | 16 | 30 | 917 | -16 | 11 | 49 | 916 | -16 | 15 | 33 | 923 | -15 | 15 | 66 | 918 | -12 | 11 | 37 |
| 18 | 919 | -26 | 8 | 66 | 920 | -30 | 7 | 91 | 928 | -23 | 15 | 32 | 915 | -16 | 13 | 50 | 917 | -15 | 16 | 28 | 920 | -13 | 16 | 54 | 918 | -13 | 11 | 36 |
| 21 | 918 | -27 | 6 | 63 | 921 | -29 | 7 | 99 | 927 | -22 | 14 | 39 | 914 | -16 | 11 | 37 | 918 | -15 | 15 | 30 | 917 | -10 | 19 | 53 | 918 | -13 | 13 | 42 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 918 | -14 | 14 | 46 | 907 | -19 | 13 | 95 | 916 | -17 | 11 | 49 | 918 | -12 | 12 | 35 | 916 | -12 | 13 | 29 | 910 | -11 | 11 | 54 | 912 | -16 | 14 | 49 |
| 03 | 918 | -14 | 11 | 30 | 898 | -13 | 15 | 66 | 916 | -18 | 13 | 56 | 919 | -12 | 10 | 49 | 917 | -12 | 13 | 26 | 908 | -9 | 12 | 45 | 908 | -13 | 13 | 57 |
| 06 | 921 | -18 | 9 | 2 | 896 | -10 | 13 | 60 | 916 | -20 | 15 | 45 | 919 | -12 | 11 | 30 | 918 | -13 | 13 | 33 | 905 | -9 | 17 | 29 | 907 | -12 | 15 | 52 |
| 09 | 925 | -19 | 5 | 23 | 896 | -10 | 13 | 35 | 916 | -19 | 12 | 63 | 918 | 12 | 11 | 47 | 918 | -14 | 12 | 36 | 907 | -12 | 11 | 32 | 904 | -13 | 18 | 53 |
| 12 | 925 | -21 | 8 | 39 | 899 | -14 | 14 | 37 | 916 | -16 | 10 | 35 | 916 | -12 | 14 | 42 | 916 | -14 | 10 | 46 | 911 | -14 | 15 | 30 | 903 | -13 | 15 | 39 |
| 15 | 924 | -21 | 10 | 37 | 901 | -16 | 15 | 39 | 917 | -15 | 12 | 37 | 914 | -11 | 13 | 37 | 915 | -13 | 11 | 42 | 913 | -18 | 13 | 39 | 905 | -15 | 10 | 56 |
| 18 | 920 | -21 | 12 | 53 | 904 | -17 | 16 | 39 | 917 | -14 | 11 | 33 | 913 | -11 | 14 | 26 | 913 | -12 | 15 | 45 | 913 | -17 | 16 | 29 | 909 | -18 | 7 | 14 |
| 21 | 913 | -20 | 13 | 61 | 912 | -15 | 9 | 15 | 917 | -13 | 9 | 39 | 915 | -11 | 13 | 42 | 912 | -12 | 19 | 49 | 913 | -16 | 18 | 30 | 913 | -20 | 9 | 15 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 919 | -22 | 6 | 333 | 928 | -24 | 11 | 36 | 911 | -22 | 17 | 56 | 926 | -23 | 12 | 45 | 934 | -24 | 8 | 63 | 934 | -18 | 4 | 4 | 937 | -15 | 17 | 73 |
| 03 | 924 | -21 | 7 | 28 | 926 | -24 | 10 | 42 | 909 | -21 | 16 | 50 | 927 | -26 | 15 | 28 | 936 | -24 | 5 | 122 | 937 | -18 | 4 | 64 | 936 | -16 | 18 | 73 |
| 06 | 927 | -21 | 5 | 21 | 926 | -24 | 6 | 22 | 910 | -19 | 16 | 47 | 928 | -27 | 11 | 87 | 937 | -24 | 4 | 91 | 936 | -14 | 14 | 70 | 935 | -17 | 17 | 64 |
| 09 | 929 | -20 | 6 | 9 | 925 | -25 | 8 | 28 | 914 | -19 | 11 | 33 | 929 | -26 | 11 | 26 | 936 | -27 | 0 | 0 | 938 | -14 | 12 | 61 | 935 | -17 | 20 | 66 |
| 12 | 931 | -22 | 5 | 8 | 923 | -25 | 7 | 35 | 917 | -18 | 13 | 50 | 930 | -26 | 12 | 47 | 937 | -23 | 6 | 118 | 939 | -13 | 14 | 67 | 936 | -15 | 23 | 52 |
| 15 | 931 | -22 | 6 | 23 |  |  |  |  | 920 | -19 | 14 | 52 | 932 | -27 | 10 | 64 | 935 | -25 | 3 | 12 | 938 | -12 | 16 | 63 | 941 | -16 | 23 | 50 |
| 18 | 930 | -22 | 6 | 19 | 918 | -24 | 11 | 43 | 922 | -21 | 16 | 47 | 932 | -27 | 10 | 37 | 933 | -22 | 4 | 23 | 938 | -14 | 14 | 53 | 945 | -15 | 19 | 43 |
| 21 | 929 | -23 | 8 | 32 | 914 | -23 | 16 | 49 | 926 | -22 | 11 | 71 | 933 | -24 | 7 | 87 | 934 | -21 | 2 | 52 | 937 | -15 | 18 | 57 | 946 | -15 | 15 | 52 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 947 | -16 | 15 | 50 | 934 | -22 | 10 | 29 | 926 | -24 | 11 | 22 | 933 | -31 | 7 | 66 | 933 | -31 | 15 | 43 | 933 | -31 | 3 | 18 | 936 | -34 | 9 | 18 |
| 03 | 947 | -16 | 13 | 60 | 932 | -23 | 7 | 70 | 929 | -24 | 11 | 59 | 932 | -31 | 11 | 46 | 932 | -30 | 18 | 28 | 934 | -31 | 7 | 22 | 936 | -34 | 9 | 19 |
| 06 | 947 | -17 | 12 | 50 | 930 | -23 | 15 | 42 | 930 | -22 | 17 | 60 | 933 | -31 | 9 | 50 | 931 | -30 | 17 | 30 | 936 | -32 | 7 | 30 | 936 | -35 | 7 | 35 |
| 09 | 946 | -19 | 9 | 49 | 928 | -24 | 13 | 45 | 932 | -22 | 17 | 67 | 934 | -29 | 2 | 25 | 931 | -28 | 19 | 46 | 937 | -32 | 4 | 22 | 936 | -36 | 6 | 80 |
| 12 | 945 | -20 | 3 | 33 | 926 | -24 | 15 | 39 | 933 | -24 | 11 | 81 | 935 | -28 | 0 | 0 | 930 | -26 | 15 | 54 | 937 | -33 | 8 | 23 | 937 | -39 | 0 | 0 |
| 15 | 941 | -16 | 10 | 19 | 925 | -23 | 13 | 49 | 933 | -25 | 16 | 52 | 935 | -30 | 4 | 25 | 929 | -25 | 17 | 45 | 937 | -33 | 7 | 19 | 937 | -38 | 4 | 81 |
| 18 | 939 | -22 | 2 | 37 | 925 | -24 | 11 | 30 | 933 | -28 | 12 | 40 | 934 | -31 | 9 | 30 | 929 | -26 | 14 | 52 | 936 | -34 | 9 | 18 | 936 | -38 | 4 | 88 |
| 21 | 938 | -22 | 6 | 26 | 926 | -23 | 9 | 84 | 933 | -30 | 10 | 40 | 934 | -32 | 9 | 50 | 930 | -26 | 10 | 30 | 936 | -34 | 8 | 21 | 936 | -34 | 6 | 59 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 935 | -34 | 10 | 25 | 923 | -23 | 12 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 934 | -34 | 12 | 23 | 922 | -27 | 9 | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 933 | -34 | 12 | 26 | 923 | -30 | 8 | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 931 | -32 | 12 | 26 | 923 | -31 | 8 | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 929 | -30 | 13 | 25 | 923 | -31 | 8 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 927 | -27 | 13 | 35 | 922 | -30 | 9 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 925 | -25 | 16 | 33 | 920 | -28 | 9 | 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 923 | -23 | 11 | 30 |  |  |  | 39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* $\operatorname{TEMPERATURE}(\mathrm{C}) *$ MEAN $=-21.3$ STD DEV $=7.1$ MAX $=-8.4$ AT 310 GMT ON DAY 7 MIN $=-39.1$ AT 1650 GMT ON DAY 28
* theta (K) * mean $=257.61$
* PRESSURE (MB) * MEAN $=924.1$ STD DEV $=10.3$ MAX $=947.6$ AT 450 GMT ON DAY 22 MIN $=894.7$ AT 650 GMT ON DAY 9
* WINDS (M/S) * MEAN $=11.4$ STD DEV $=4.5$ RESULTANT $=10.7$ FROM 44. CONSTANCY $=0.94$ MAX $=27.3$ FROM 53. AT 1110 GMT DAY 21
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $0.4 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60-1$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllll} & 2 & 36 & 42 & 12 & 5 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

JUL 97

HR PP TT VV DD DAY 1
$\begin{array}{llll}00 & 917 & -26 & 11 \\ 39\end{array}$
$\begin{array}{lllll}03 & 914 & -25 & 14 & 32\end{array}$
$\begin{array}{lllll}06 & 914 & -22 & 14 & 32\end{array}$
$\begin{array}{lllll}09 & 915 & -21 & 11 & 32\end{array}$
$\begin{array}{lllll}12 & 916 & -20 & 14 & 33\end{array}$
$\begin{array}{lllll}15 & 916 & -21 & 15 & 23\end{array}$
$\begin{array}{lllll}18 & 916 & -22 & 16 & 52\end{array}$
$\begin{array}{lllll}21 & 915 & -22 & 14 & 42\end{array}$ DAY 8
$\begin{array}{lllll}00 & 914 & -7 & 7 & 360\end{array}$
$\begin{array}{lllll}03 & 915 & -6 & 7 & 15\end{array}$
$\begin{array}{lllll}06 & 915 & -7 & 13 & 23\end{array}$
$\begin{array}{lllll}09 & 916 & -8 & 19 & 19\end{array}$
$\begin{array}{lllll}12 & 916 & -11 & 16 & 22\end{array}$
$\begin{array}{lllll}15 & 916 & -13 & 15 & 49\end{array}$
$\begin{array}{lllll}18 & 914 & -12 & 14 & 28\end{array}$
$\begin{array}{llll}21 & 917 & -14 & 9\end{array}$

## DAY 15

$\begin{array}{llll}00 & 899 & -20 & 21 \\ 54\end{array}$
$\begin{array}{lllll}03 & 902 & -21 & 23 & 43\end{array}$
$\begin{array}{lllll}06 & 906 & -22 & 23 & 46\end{array}$
$\begin{array}{lllll}09 & 909 & -24 & 24 & 35\end{array}$
$\begin{array}{llll}12 & 912 & -24 & 21\end{array} 39$
$\begin{array}{lllll}15 & 915 & -26 & 19 & 28\end{array}$
$\begin{array}{lllll}18 & 917 & -26 & 14 & 36\end{array}$
$\begin{array}{lllll}21 & 918 & -25 & 13 & 47\end{array}$
$\begin{array}{lllll} & & \text { DAY } & 22 \\ 00 & 922 & -39 & 9 & 18\end{array}$
$\begin{array}{lllll}03 & 922 & -40 & 12 & 16\end{array}$
$\begin{array}{lllll}06 & 921 & -40 & 13 & 18\end{array}$
$\begin{array}{lllll}09 & 920 & -40 & 11 & 29\end{array}$
$\begin{array}{lllll}12 & 917 & -38 & 15 & 19\end{array}$
$\begin{array}{lllll}15 & 914 & -37 & 18 & 19\end{array}$
$\begin{array}{llllll}18 & 911 & -36 & 21 & 30\end{array}$
 DAY 29
$\begin{array}{llll}00 & 913 & -36 & 12\end{array} 42$
$\begin{array}{llllll}03 & 912 & -37 & 12 & 19\end{array}$
$\begin{array}{lllll}06 & 910 & -38 & 14 & 37\end{array}$
$\begin{array}{lllll}09 & 909 & -38 & 16 & 32\end{array}$
$\begin{array}{lllll}12 & 907 & -38 & 14 & 32\end{array}$
$\begin{array}{lllll}15 & 905 & -36 & 10 & 61\end{array}$
$\begin{array}{lllll}18 & 904 & -36 & 10 & 66\end{array}$
$\begin{array}{lllll}21 & 903 & -36 & 6 & 88\end{array}$
PP TT WV DD PP TT WV DD
DAY 2
$\begin{array}{lllllll}915 & -19 & 17 & 43 & 921 & -18 & 21\end{array} 59$
$\begin{array}{llllllll}916 & -18 & 18 & 43 & 917 & -17 & 20 & 61\end{array}$
$\begin{array}{llllllll}919 & -19 & 14 & 35 & 913 & -13 & 17 & 56\end{array}$
$\begin{array}{llllllllllllllllllll}920 & -21 & 17 & 40 & 913 & -11 & 12 & 52\end{array}$
$\begin{array}{llllllll}922 & -21 & 14 & 46 & 913 & -12 & 13 & 52\end{array}$
$\begin{array}{llllllll}925 & -21 & 13 & 53 & 913 & -13 & 13 & 45\end{array}$
$\begin{array}{llllllll}925 & -20 & 16 & 57 & 914 & -14 & 11 & 45\end{array}$
$\begin{array}{llllllll}924 & -19 & 16 & 64 & 916 & -15 & 10 & 25\end{array}$
DAY 10
$\begin{array}{llllllll}925 & -20 & 7 & 317 & 917 & -28 & 14 & 36\end{array}$
930-23 2315
913-26 $15 \quad 33$
$\begin{array}{llllllll}931 & -24 & 7 & 18 & 910 & -25 & 18 & 32\end{array}$
$\begin{array}{llllllll}930 & -24 & 9 & 26 & 906 & -23 & 12 & 47\end{array}$
$\begin{array}{llllllll}928 & -24 & 10 & 29 & 900 & -24 & 17 & 50\end{array}$
$\begin{array}{llllllll}926 & -25 & 9 & 32 & 895 & -24 & 16 & 59\end{array}$
$\begin{array}{llllllllll}922 & -27 & 10 & 37 & 889 & -22 & 14 & 50\end{array}$
$\begin{array}{llllllll}920 & -28 & 11 & 35 & 883 & -21 & 14 & 63\end{array}$
918-24 $17 \quad 50$
918-24 $15 \quad 54$
$\begin{array}{lllllll}919 & -24 & 17 & 46 & 919 & -24 & 12 \\ 60\end{array}$
$\begin{array}{llllllll}920 & -24 & 19 & 52 & 917 & -23 & 13 & 64\end{array}$
$\begin{array}{llllllll}921 & -24 & 17 & 56 & 915 & -23 & 14 & 70\end{array}$
$\begin{array}{lllllll}922 & -24 & 18 & 52 & 915 & -23 & 11 \\ 66\end{array}$
$\begin{array}{llllllll}923 & -26 & 15 & 50 & 914 & -24 & 9 & 84\end{array}$
$\begin{array}{llllllll}922 & -26 & 15 & 46 & 913 & -25 & 8 & 97\end{array}$
DAY 24
$\begin{array}{llll}908 & -32 \quad 17 \quad 36\end{array}$
$\begin{array}{lll}918 & -26 & 10 \\ 26\end{array}$
$\begin{array}{lllllll}905 & -29 & 19 & 45 & 922 & -26 & 5\end{array} 360$
$\begin{array}{lllllll}903 & -27 & 15 & 46 & 925 & -30 & 0\end{array} 0$
$\begin{array}{llllllll}901 & -26 & 21 & 45 & 926 & -31 & 8 & 21\end{array}$
$\begin{array}{llllllll}902 & -24 & 18 & 37 & 927 & -32 & 12 & 21\end{array}$
$\begin{array}{llllllllll}904 & -23 & 21 & 45 & 927 & -32 & 11 & 26\end{array}$
$\begin{array}{llllllll}908 & -24 & 15 & 25 & 927 & -35 & 11 & 33\end{array}$

> 903-35 $8 \quad 94$
> 904-39 1549
> $\begin{array}{llllllll}903 & -34 & 9 & 53 & 904 & -38 & 11 & 50\end{array}$
> $\begin{array}{llllllll}904 & -36 & 8 & 46 & 905 & -37 & 11 & 60\end{array}$
> $\begin{array}{llllllll}904 & -39 & 14 & 36 & 907 & -36 & 14 & 35\end{array}$
> $\begin{array}{llllllll}905 & -45 & 15 & 19 & 909 & -36 & 17 & 37\end{array}$
$\begin{array}{llllllll}904 & -43 & 15 & 42 & 918 & -39 & 11 & 28\end{array}$
$\begin{array}{llllllll}904 & -41 & 14 & 32 & 921 & -39 & 14 & 30\end{array}$

PP TT WV DD DAY 4
921-18 $6 \quad 68$
$\begin{array}{llll}922 & -20 & 8 & 43\end{array}$
926-23 $12 \quad 68$
928-23 $16 \quad 42$
930-23 $15 \quad 32$
932-22 $14 \quad 32$
933-23 $17 \quad 40$
933-25 $13 \quad 32$ DAY 11
878-16 1559
877-15 1242
879-17 $11 \quad 50$
882-18 $14 \quad 39$
889-20 1150
$\begin{array}{llll}896 & -23 & 10 & 23\end{array}$
$\begin{array}{llll}901 & -24 & 8 & 16\end{array}$
907-28 $10 \quad 23$ DAY 18
912-26 960
911-26 $10 \quad 63$
911-27 995
911-27 $12 \quad 32$
911-28 $15 \quad 35$
914-28 $11 \quad 53$
915-28 $9 \quad 45$
916-28 $4 \quad 56$ DAY 25
$\begin{array}{llll}924 & -36 & 14 & 43\end{array}$
$\begin{array}{llll}922 & -35 & 9 & 47\end{array}$
916-30 $18 \quad 46$
$\begin{array}{llll}913 & -28 & 12 \quad 87\end{array}$
908-26 $10 \quad 67$
904-24 $10 \quad 82$
$\begin{array}{llll}900 & -23 & 10 & 105\end{array}$
898-20 $14 \quad 54$

PP TT WV DD PP TT WV DD DAY 5
$\begin{array}{llll}932 & -25 & 14 & 33\end{array}$ $\begin{array}{llll}928 & -23 & 13 & 45\end{array}$
$\begin{array}{llll}923 & -23 & 14 & 88\end{array}$
$\begin{array}{llll}917 & -20 & 14 & 82\end{array}$
910-15 $19 \quad 71$
$\begin{array}{lllll}908 & -14 & 11 & 57\end{array}$
$\begin{array}{llll}910 & -20 & 13 & 15\end{array}$
$\begin{array}{lll}916 & -25 \quad 1319\end{array}$
DAY 12
912-28 $7 \quad 32$
$\begin{array}{lllll}916 & -29 & 3 & 49\end{array}$
$\begin{array}{llll}919 & -32 & 4 & 36\end{array}$
$\begin{array}{llll}921 & -32 & 3 & 7\end{array}$
$\begin{array}{llll}922 & -33 & 1 & 286\end{array}$
$\begin{array}{llll}924 & -36 & 1 & 260\end{array}$
$\begin{array}{llll}924 & -37 & 2 & 12\end{array}$
925-32 0
DAY 19
917-28 447
$\begin{array}{llll}917 & -29 & 6 & 59\end{array}$
916-28 $11 \quad 50$
917-28 $14 \quad 50$
$\begin{array}{llll}916 & -28 & 15 & 35\end{array}$
$\begin{array}{llll}916 & -27 & 18 & 23\end{array}$
917-28 $16 \quad 42$
918-29 16.25
DAY 26
900-19 $9 \quad 35$
$\begin{array}{llll}907 & -25 & 6 & 2\end{array}$
$\begin{array}{llll}912 & -25 & 8 & 30\end{array}$
$\begin{array}{llll}915 & -27 & 12 & 36\end{array}$
917-29 $14 \quad 33$
918-29 $14 \quad 35$
$919-3012 \quad 36$
$919-3016 \quad 36$

DAY 6
$\begin{array}{lll}920 & -28 & 15 \quad 22\end{array}$
923-27 $12 \quad 28$
$\begin{array}{llll}922 & -21 & 16 \quad 23\end{array}$
920-20 $16 \quad 64$
916-19 $14 \quad 64$
$\begin{array}{llll}912 & -18 & 14 & 57\end{array}$
910-17 $13 \quad 68$
910-15 $13 \quad 53$
DAY 13
926-29 419
$\begin{array}{llll}928 & -32 & 7 & 23\end{array}$
$\begin{array}{llll}927 & -30 & 9 & 22\end{array}$
925-29 $12 \quad 29$
922-29 $12 \quad 23$
919-26 $12 \quad 36$
$\begin{array}{lll}914 & -24 \quad 13 \quad 50\end{array}$
910-23 $15 \quad 59$
DAY 20
$\begin{array}{lll}919 & -30 & 16 \quad 32\end{array}$
$\begin{array}{lllll}919 & -30 & 14 & 25\end{array}$
$\begin{array}{llll}918 & -29 & 17 & 19\end{array}$
$\begin{array}{llll}919 & -30 & 13 & 36\end{array}$
$\begin{array}{llll}918 & -31 & 10 \quad 30\end{array}$
$\begin{array}{llll}917 & -30 & 12 \quad 39\end{array}$
$\begin{array}{llll}916 & -31 & 9 & 29\end{array}$
$\begin{array}{llll}916 & -31 & 8 & 95\end{array}$
DAY 27
918-31 $15 \quad 42$
$\begin{array}{llll}916 & -31 & 9 & 30\end{array}$
$\begin{array}{llll}916 & -32 & 4 & 99\end{array}$
$\begin{array}{llll}915 & -32 & 6 & 87\end{array}$
$\begin{array}{lllll}915 & -32 & 10 & 57\end{array}$
916-35 $11 \quad 22$
$\begin{array}{llll}918 & -34 & 8 & 28\end{array}$
$\begin{array}{lll}919 & -34 & 9\end{array} 19$

PP TT WV DD DAY 7
911-13 $14 \quad 33$
914-16 $12 \quad 28$
$\begin{array}{llll}916 & -17 & 15 \quad 45\end{array}$
917-13 $14 \quad 36$
915-11 $18 \quad 36$
914-10 $13 \quad 61$
$\begin{array}{llll}912 & -8 & 14 \quad 40\end{array}$
911 -6 $13 \quad 26$
DAY 14
906-23 1561
902-21 $20 \quad 63$
899-21 $20 \quad 68$
898-19 $13 \quad 68$
895-19 $21 \quad 75$
893-19 2271
892-18 $21 \quad 70$
895-19 $25 \quad 57$
DAY 21
$\begin{array}{llll}915 & -30 & 11 \quad 42\end{array}$
$\begin{array}{llll}915 & -30 & 12 \quad 35\end{array}$
$\begin{array}{llll}915 & -31 & 14 & 29\end{array}$
916-32 $14 \quad 30$
917-33 $12 \quad 30$
$\begin{array}{llll}919 & -35 & 10 & 18\end{array}$
$\begin{array}{llll}920 & -36 & 12 & 16\end{array}$
$\begin{array}{llll}921 & -38 & 7 & 18\end{array}$
DAY 28
$\begin{array}{llll}920 & -36 & 9 & 25\end{array}$
$\begin{array}{lllll}920 & -36 & 11 & 32\end{array}$
919-37 $11 \quad 35$
$\begin{array}{lllll}918 & -38 & 11 & 32\end{array}$
$\begin{array}{lllll}916 & -36 & 12 \quad 26\end{array}$
$\begin{array}{llll}915 & -36 & 12 \quad 26\end{array}$
$\begin{array}{lllll}914 & -36 & 10 & 25\end{array}$
$\begin{array}{llll}914 & -36 & 9 & 29\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-26.2$ Std dev $=7.9$ max $=-5.5$ at 330 GMT ON dAY 8 MIN $=-45.0$ at 1330 GMT ON dAY 30
* THETA (K) * MEAN $=253.43$
* PRESSURE (MB) * MEAN $=914.0$ STD DEV $=9.6$ MAX $=933.4$ AT 2050 GMT ON DAY 4 MIN $=876.6$ AT 210 GMT ON DAY 11
* WINDS (M/S) * MEAN $=12.7$ STD DEV $=4.4$ RESULTANT $=12.1$ FROM 42. CONSTANCY $=0.95$ MAX $=27.5$ FROM 59. AT 1900 GMT DAY 14
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: $\quad 2 \begin{array}{lllllllllllllllll} & 2 & 5 & 13 & 19 & 18 & 19 & 11 & 3 & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll} & 2 & 37 & 39 & 15 & 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0\end{array}$



\[

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897-27 $14 \quad 39$
$\begin{array}{llll}894 & -2614 \quad 45\end{array}$
893-26 $18 \quad 49$
$\begin{array}{lllll}900 & -28 & 13 & 360\end{array}$
905-30 $14 \quad 26$ DAY 10

$$
\begin{array}{llllllll}
905 & -17 & 9 & 11 & 910 & -37 & 0 & 0
\end{array}
$$

$$
\begin{array}{llllllll}
908 & -17 & 1 & 23 & 908 & -33 & 3 & 35
\end{array}
$$

$$
\begin{array}{llllllll}
909 & -19 & 2 & 345 & 902 & -30 & 14 & 30
\end{array}
$$

PP TT WV DD DAY 4
909-35 $16 \quad 18$
$\begin{array}{llll}912 & -35 & 13 \quad 21\end{array}$
$\begin{array}{llll}914 & -36 & 6 & 50\end{array}$
$\begin{array}{lllll}914 & -37 & 7 & 47\end{array}$
$914-4143$
$\begin{array}{llll}914 & -43 & 5 & 14\end{array}$
$\begin{array}{llllllll}914 & -43 & 6 & 23 & 898 & -30 & 16 & 67\end{array}$
$\begin{array}{llllllll}914 & -43 & 7 & 12 & 895 & -27 & 21 & 66\end{array}$
DAY 11

PP TT VV DD DAY 5
$\begin{array}{llll}914 & -42 & 8 & 15\end{array}$
$\begin{array}{llll}913 & -42 & 9 & 14\end{array}$
$\begin{array}{llll}912 & -43 & 10 & 15\end{array}$
$911-43 \quad 10 \quad 42$
907-40 $9 \quad 52$
903-36 $9 \quad 75$
$\begin{array}{lllll}898 & -30 & 16 & 67 \\ 895 & -27 & 21 & 66\end{array}$
DAY 12


PP TTV DD DAY 7
893-28 $24 \quad 75$
$\begin{array}{llll}895 & -28 & 19 & 57\end{array}$
895-28 $22 \quad 66$
$\begin{array}{llll}896 & -28 & 22 \quad 66\end{array}$
894-29 $22 \quad 64$
$\begin{array}{llll}898 & -28 & 20 & 81\end{array}$
893-30 $24 \quad 60$
$\begin{array}{llll}898 & -28 & 17 & 67\end{array}$
$\begin{array}{llllllll}896 & -28 & 21 & 68 & 899 & -28 & 17 & 61\end{array}$
$\begin{array}{llllllll}895 & -27 & 24 & 64 & 899 & -28 & 23 & 53\end{array}$
$\begin{array}{lllllll}893 & -27 & 25 & 63 & 902 & -29 & 24\end{array}$ DAY 13 DAY 14

DAY 16
DAY 15

DAY 17
DAY 18
DAY 19
DAY 20
DAY 21
00
03
06
09
12
15

DAY 22
00
03
06
09

DAY 30
DAY 31


* temperature ( $C$ ) * mean $=-29.9$ Std dev $=7.1$ MAX $=-13.8$ at 2130 GMT ON dAY 1 MIN $=-43.6$ AT 730 GMT ON DAY 5
* theta (K) * MEAN $=250.46$
* PRESSURE (MB) * MEAN $=903.2$ STD DEV $=8.7$ MAX $=922.2$ AT 20 GMT ON DAY 1 MIN $=886.6$ AT 1220 GMT ON DAY 8
* WINDS (M/S) * MEAN $=15.1 \mathrm{STD}$ DEV $=8.4$ RESULTANT $=14.0$ FROM 54. CONSTANCY $=0.93 \mathrm{MAX}=35.9$ FROM 67. AT 1900 GMT DAY 8
* MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $74.2 \%$ PRESSURE: $74.2 \%$ WINDS: $74.2 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 3 & 21 & 27 & 37 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 2 & 0 & 0 & 3\end{array}$

$\begin{array}{lllll}00 & 821 & -13 & 15 & 70\end{array}$
$\begin{array}{lllll}03 & 821 & -14 & 12 & 75\end{array}$
$\begin{array}{lllll}06 & 822 & -14 & 12 & 78\end{array}$
$\begin{array}{lllll}09 & 822 & -13 & 11 & 85\end{array}$
$\begin{array}{lllll}12 & 823 & -13 & 10 & 73\end{array}$
$\begin{array}{lllll}15 & 823 & -13 & 12 & 71\end{array}$
$\begin{array}{lllll}18 & 825 & -12 & 10 & 75\end{array}$
$\begin{array}{lllll}21 & 825 & -11 & 7 & 71\end{array}$ DAY 8
$\begin{array}{llll}00 & 817 & -12 & 4\end{array} 98$
$\begin{array}{lllll}03 & 817 & -12 & 5 & 85\end{array}$
$\begin{array}{llll}06 & 817 & -13 & 6\end{array}$
$\begin{array}{lllll}09 & 817 & -14 & 9 & 102\end{array}$
$\begin{array}{lllll}12 & 818 & -13 & 10 & 92\end{array}$
$\begin{array}{lllll}15 & 818 & -13 & 11 & 94\end{array}$
$\begin{array}{lllll}18 & 819 & -12 & 11 & 87\end{array}$
$\begin{array}{lllll}21 & 819 & -11 & 10 & 87\end{array}$
DAY 15
$\begin{array}{lllll}00 & 826 & -9 & 5 & 63\end{array}$
$\begin{array}{lllll}03 & 825 & -9 & 5 & 98\end{array}$
$\begin{array}{lllll}06 & 825 & -10 & 6 & 91\end{array}$
$\begin{array}{lllll}09 & 824 & -11 & 5 & 78\end{array}$
$\begin{array}{lllll}12 & 823 & -10 & 6 & 104\end{array}$
$\begin{array}{lllll}15 & 823 & -10 & 7 & 108\end{array}$
$\begin{array}{lllll}18 & 823 & -9 & 7 & 91\end{array}$
$\begin{array}{lllll}21 & 823 & -9 & 7 & 81\end{array}$ DAY 22
$\begin{array}{lllll}00 & 825 & -13 & 11 & 71\end{array}$
$\begin{array}{lllll}03 & 825 & -14 & 9 & 49\end{array}$
$\begin{array}{lllll}06 & 825 & -14 & 12 & 90\end{array}$
$\begin{array}{lllll}09 & 825 & -15 & 14 & 90\end{array}$
$\begin{array}{lllll}12 & 826 & -14 & 14 & 81\end{array}$
$\begin{array}{lllll}15 & 826 & -14 & 10 & 78\end{array}$
$\begin{array}{llll}18 & 827 & -13 & 12\end{array} 78$

| 21 | 827 | -13 | 11 |
| :--- | :--- | :--- | :--- | DAY 29

$\begin{array}{lllll}00 & 825 & -13 & 3 & 67\end{array}$
$\begin{array}{lllll}03 & 825 & -15 & 4 & 77\end{array}$
$\begin{array}{lllll}06 & 824 & -14 & 3 & 47\end{array}$
$\begin{array}{lllll}09 & 824 & -15 & 4 & 33\end{array}$
$\begin{array}{lllll}12 & 824 & -14 & 4 & 64\end{array}$
$\begin{array}{lllll}15 & 824 & -14 & 6 & 87\end{array}$
$\begin{array}{lllll}18 & 824 & -13 & 5 & 61\end{array}$
$\begin{array}{lllll}21 & 824 & -12 & 7 & 67\end{array}$

PP TT WV
DAY 2
825-10 $7 \quad 71$ $\begin{array}{llll}825 & -9 & 5 & 74\end{array}$ 825-10 $\quad 5 \quad 74$ 825-12 $\quad 6 \quad 85$
825-12 $\quad 5 \quad 80$
$\begin{array}{llll}824 & -11 & 4 & 80\end{array}$
824-10 $4 \quad 66$
$\begin{array}{llll}823 & -9 & 3 & 73\end{array}$ DAY 9
820-10 1181
$\begin{array}{llll}821 & -11 & 8 & 75\end{array}$
822-12 $10 \quad 88$
823-13 981
824-13 988
824-12 $10 \quad 94$
$\begin{array}{llll}824 & -11 & 7 & 81\end{array}$
825-10 $8 \quad 82$ DAY 16
$\begin{array}{llll}824 & -8 & 5 & 73\end{array}$
$\begin{array}{llll}824 & -8 & 3 & 8\end{array}$ $\begin{array}{llll}825 & -11 & 6 & 87\end{array}$
$\begin{array}{llll}825 & -12 & 6 & 88\end{array}$ $\begin{array}{llll}826 & -13 & 6 & 84\end{array}$
$\begin{array}{llll}826 & -11 & 5 & 90\end{array}$
$\begin{array}{llll}826 & -10 & 6 & 43\end{array}$
$\begin{array}{llll}826 & -10 & 5 & 73\end{array}$ DAY 23
827-12 978
$\begin{array}{llll}827 & -12 & 7 & 88\end{array}$
$\begin{array}{llll}827 & -13 & 8 & 109\end{array}$
$\begin{array}{llll}828 & -13 & 2 & 54\end{array}$
827-13 $5 \quad 90$
$\begin{array}{llll}827 & -13 & 6 & 94\end{array}$
827-12 $7 \quad 91$
$\begin{array}{llll}827 & -12 & 7 & 85\end{array}$
DAY 30
825-12 656
825-12 $8 \quad 66$
$\begin{array}{llll}826 & -13 & 7 & 57\end{array}$
827-13 $8 \quad 63$
$\begin{array}{llll}828 & -13 & 7 & 47\end{array}$
829-13 675
829-13 678
830-12 $5 \quad 50$

## PP TT VV DD

 DAY 3$\begin{array}{llll}822 & -9 & 5 & 87\end{array}$ 821-10 $6 \quad 77$ 821-12 $6 \quad 90$ $\begin{array}{llll}820 & -14 & 7 & 94\end{array}$ $\begin{array}{llll}820 & -13 & 8 & 94\end{array}$ 820-12 8104 820-12 9104 819-11 985 DAY 10
$\begin{array}{llll}825 & -9 & 7 & 80\end{array}$
825-10 780
$\begin{array}{llll}825 & -11 & 8 & 84\end{array}$
825-12 $8 \quad 78$
825-13 $9 \quad 90$
825-11 $8 \quad 88$
825-10 981
$\begin{array}{llll}825 & -8 & 7 & 74\end{array}$ DAY 17
$\begin{array}{llll}826 & -9 & 6 & 80\end{array}$
826-10 $6 \quad 85$
$\begin{array}{llll}827 & -11 & 7 & 77\end{array}$
827-12 981
828-12 $9 \quad 90$
$\begin{array}{llll}829 & -9 & 8 & 74\end{array}$
$\begin{array}{llll}829 & -8 & 7 & 81\end{array}$
$\begin{array}{llll}830 & -7 & 6 & 88\end{array}$ DAY 24
827-12 $8 \quad 82$
826-13 $9 \quad 82$
$\begin{array}{llll}826 & -14 & 7 & 85\end{array}$
$\begin{array}{llll}826 & -14 & 8 & 94\end{array}$
826-14 8102
824-14 794
823-12 $5 \quad 81$
$\begin{array}{llll}821 & -13 & 6 & 77\end{array}$ DAY 31
831-11 443
831-11 243
$\begin{array}{llll}831 & -11 & 3 & 45\end{array}$
832-12 $\quad 3 \quad 352$
831-12 4336
831-12 6313
832-11 5309
$\begin{array}{llll}832 & -11 & 5 & 309 \\ 831 & -10 & 4 & 315\end{array}$


## DAY 11

$\begin{array}{llll}825 & -8 & 9 & 75\end{array}$
$\begin{array}{llll}825 & -9 & 7 & 75\end{array}$
825-10 9 73
825-11 $9 \quad 80$
825-10 $10 \quad 88$
826-10 $8 \quad 99$
826-10 $\quad 8 \quad 84$
826-10 $11 \quad 81$
DAY 18
$\begin{array}{llll}831 & -6 & 6 & 32\end{array}$
$\begin{array}{llll}831 & -7 & 4 & 28\end{array}$
$\begin{array}{llll}832 & -7 & 3 & 46\end{array}$
$\begin{array}{llll}832 & -8 & 4 & 21\end{array}$
$\begin{array}{llll}832 & -8 & 4 & 26\end{array}$
$\begin{array}{llll}832 & -8 & 4 & 30\end{array}$
$\begin{array}{llll}832 & -7 & 2 & 15\end{array}$
$\begin{array}{llll}833 & -10 \quad 4 \quad 99\end{array}$
DAY 25
820-11 1189
819-15 690
818-17 $7 \quad 75$
818-18 $7 \quad 78$
818-17 6 88
$\begin{array}{llll}818 & -17 & 6 & 87\end{array}$
819-16 $6 \quad 87$
819-13 $7 \quad 84$


PP TT VV DD DAY 6 DAY 12
826-10 $9 \quad 77$
826 -10 $8 \quad 80$
827-11 984
$\begin{array}{llll}828 & -11 & 8 & 73\end{array}$
828-11 $7 \quad 88$
828-10 $8 \quad 74$
828-10 $6 \quad 90$
$\begin{array}{llll}828 & -9 & 8 & 81\end{array}$ DAY 19
$\begin{array}{llll}832 & -9 & 4 & 90\end{array}$
$\begin{array}{llll}832 & -7 & 1 & 343\end{array}$
$\begin{array}{llll}832 & -9 & 3 & 340\end{array}$
831 -10 3330
$831-10 \quad 1324$
830-10 0 0
$\begin{array}{llll}830 & -9 & 2 & 306\end{array}$
$\begin{array}{lll}830 & -7 & 1.112\end{array}$

## DAY 26

$\begin{array}{llll}819 & -14 & 11 & 87\end{array}$
$\begin{array}{llll}819 & -14 & 12 & 87\end{array}$
819 -14 1181
$820-15 \quad 14 \quad 80$
$\begin{array}{llll}820 & -14 & 13 & 87\end{array}$
$\begin{array}{llll}821 & -15 & 14 & 81\end{array}$
$821-15 \quad 10 \quad 82$
$821-15 \quad 12 \quad 70$

PP TT VV DD DAY 7
819-12 1296
818-13 3272
$818-14 \quad 4316$
817-14 5 292
817-14 4285
817-12 1305
817-10 1288
817-13 2101 DAY 14
825-12 1182
$\begin{array}{llll}825 & -12 & 13 & 71\end{array}$
825-14 $14 \quad 64$
826-14 11101
826-14 $10 \quad 59$
826-14 1197
826-12 $10 \quad 91$
$825-1011 \quad 92$ DAY 21
827-14 982
827-15 11102
$\begin{array}{lllll}826 & -15 & 11 & 97\end{array}$
$\begin{array}{llll}826 & -14 & 13 & 99\end{array}$
826-14 12101
825-14 1299
$\begin{array}{lll}825 & -14 & 13 \\ 85\end{array}$
$825-13 \quad 10 \quad 92$ DAY 28
829-14 $6 \quad 88$
$\begin{array}{llll}828 & -15 & 7 & 85\end{array}$
827-16 988
$\begin{array}{llll}827 & -17 & 9 & 84\end{array}$
827-17 8101
826-16 $\quad 8 \quad 90$
826-15 $\quad 5 \quad 77$
$\begin{array}{llll}826 & -14 \quad 5 \quad 75\end{array}$

* temperature ( $C$ ) * mean $=-12.0$ Std dev $=2.3$ max $=-5.2$ at 130 GMt on day 16 min $=-19.0$ at 950 GMt on day 25
* theta (K) * MEAN $=275.98$
* PRESSURE (MB) * MEAN $=824.5$ STD DEV $=3.9$ MAX $=832.7$ at 2030 GMT ON DAY 18 MIN $=816.7$ AT 2340 GMT ON DAY 7
* WINDS (M/S) * MEAN $=7.1$ STD DEV $=3.1$ RESULTANT $=6.5$ FROM 81. CONSTANCY $=0.92$ MAX $=16.2$ fROM 73. AT 150 GMT DAY 1 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ UINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\quad 6 \quad 12$ 18 24 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll}\text { PERCENT } & 1 & 3 & 5 & 27 & 52 & 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 3 & 2\end{array}$

| HR | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  | VV | DD | PP |  | VV | DD | PP | זT | W | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | dAY | 5 |  |  | day | 6 |  |  | DAY | 7 |  |
| 00 | 830 | -10 | 6 | 312 | 833 | -8 | 2 | 336 | 836 | -12 | 5 | 97 | 832 | -13 | 7 | 92 | 833 | -11 | 6 | 88 | 833 | -12 | 6 | 81 | 826 | -14 | 5 | 87 |
| 03 | 830 | -10 | 5 | 296 | 834 | -8 | 2 | 2 | 834 | -14 | 5 | 97 | 831 | -13 | 6 | 84 | 833 | -10 | 7 | 87 | 832 | -12 | 8 | 84 | 825 | 13 | 7 | 82 |
| 06 | 829 | -10 | 4 | 299 | 834 | -9 | 3 | 336 | 834 | -18 | 5 | 97 | 831 | -13 | 6 | 101 | 833 | -11 | 5 | 87 | 831 | -12 | 6 | 90 | 824 | 13 | 7 | 90 |
| 09 | 829 | -10 | 5 | 305 | 835 | -8 | 4 | 327 | 834 | -17 | 6 | 91 | 832 | -12 | 5 | 94 | 834 | -13 | 4 | 97 | 830 | -12 | 6 | 94 | 823 | 14 | 6 | 90 |
| 12 | 830 | -10 | 5 | 303 |  |  |  |  | 834 | -15 | 5 | 80 | 832 | -13 | 6 | 90 | 834 | -13 | 6 | 85 | 829 | -12 | 4 | 99 | 823 | -14 | 7 | 88 |
| 15 | 830 | -9 | 4 | 313 | 7 | -9 | 4 | 358 | 834 | -14 | 8 | 90 | 832 | -12 | 6 | 87 | 834 | -14 | 7 | 88 | 828 | -15 | 4 | 108 | 822 | -15 | 8 | 88 |
| 18 |  |  |  |  | 837 | -9 | 6 | 360 | 833 | -14 | 9 | 99 | 832 | -11 | 6 | 85 | 834 | -14 | 6 | 87 | 827 | -15 | 5 | 85 | 821 | -13 | 9 | 85 |
| 21 | 832 | -8 | 2 | 295 | 837 | -9 | 4 | 57 | 832 | -14 | 9 | 95 | 832 | -11 | 7 | 97 | 834 | -13 | 5 | 85 | 826 | -14 | 6 | 82 | 821 | -14 | 8 | 81 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 821 | -14 | 10 | 80 | 819 | -19 | 4 | 67 | 820 | -18 | 1 | 337 | 824 | -21 | 8 | 81 | 823 | -22 | 5 | 71 | 817 | -16 | 9 | 101 | 816 | -20 | 7 | 74 |
| 03 | 821 | -15 | 8 | 84 | 818 | -18 | 4 | 54 | 820 | -20 | 4 | 67 | 825 | -21 | 8 | 80 | 822 | -24 | 2 | 75 | 816 | -14 | 8 | 106 | 816 | -22 | 7 | 68 |
| 06 | 821 | -16 | 6 | 88 | 818 | -20 | 5 | 99 | 821 | -21 | 6 | 85 | 825 | -22 | 9 | 61 | 821 | -23 | 4 | 109 | 815 | -14 | 8 | 92 | 816 | -22 | 12 | 60 |
| 09 | 820 | -19 | 6 | 80 | 818 | -20 | 3 | 88 | 822 | -21 | 6 | 97 | 826 | -23 | 6 | 75 | 820 | -22 | 6 | 90 | 815 | -15 | 1 | 253 | 817 | -22 | 8 | 64 |
| 12 | 820 | -22 | 4 | 95 | 819 | -21 | 2 | 292 | 822 | -20 | 6 | 90 | 826 | -24 | 8 | 84 | 819 | -20 | 9 | 98 | 815 | -16 | 5 | 116 | 817 | -22 | 10 | 78 |
| 15 | 820 | -20 | 4 | 87 | 819 | -20 | 1 | 333 | 823 | -20 | 9 | 74 | 825 | -24 | 5 | 71 | 818 | -19 | 7 | 113 | 814 | -19 | 5 | 60 | 817 | -23 | 9 | 102 |
| 18 | 819 | -20 | 3 | 88 | 819 | -18 | 1 | 343 | 823 | -21 | 11 | 84 | 825 | -23 | 7 | 42 | 818 | -16 | 7 | 66 | 814 | -20 | 6 | 82 | 818 | -22 | 10 | 109 |
| 21 | 819 | -20 | 3 | 78 | 819 | -19 | 1 | 323 | 824 | -20 | 8 | 81 | 824 | -22 | 7 | 64 | 817 | -16 | 9 | 54 | 815 | -19 | 7 | 78 | 818 | -22 | 11 | 97 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  |  | 21 |  |
| 00 | 818 | -22 | 12 | 102 | 820 | -23 | 12 | 85 | 822 | -22 | 8 | 85 | 823 | -22 | 6 | 84 | 818 | -20 | 4 | 81 | 827 | -27 | 2 | 352 | 820 | -25 | 4 | 106 |
| 03 | 818 | -23 | 11 | 87 | 820 | -24 | 10 | 98 | 823 | -20 | 5 | 85 | 821 | -22 | 7 | 97 | 819 | -21 | 2 | 59 | 826 | -27 | 2 | 319 | 819 | -28 | 6 | 99 |
| 06 | 818 | -23 | 9 | 98 | 820 | -25 | 8 | 97 | 824 | -20 | 3 | 317 | 819 | -21 | 7 | 95 | 821 | -23 | 1 | 350 | 826 | -27 | 4 | 303 | 818 | -25 | 8 | 85 |
| 09 | 818 | -24 | 11 | 95 | 820 | -26 | 11 | 84 | 825 | -22 |  | 360 | 820 | -24 | 5 | 99 | 823 | -26 | 3 | 81 | 825 | -28 | 1 | 330 | 817 | -26 | 8 | 78 |
| 12 | 819 | -24 | 10 | 104 | 821 | -26 | 7 | 90 | 826 | -22 | 3 | 68 | 820 | -26 | 6 | 91 | 824 | -26 | 4 | 358 | 824 | -29 | 2 | 36 | 817 | -24 | 8 | 98 |
| 15 | 819 | -24 | 8 | 99 | 821 | -25 | 9 | 78 | 826 | -22 | 4 | 66 | 820 | -24 | 7 | 85 | 826 | -26 | 2 | 319 | 823 | -28 | 2 | 77 | 816 | -23 | 9 | 101 |
| 18 | 820 | -23 | 11 | 87 | 821 | -24 | 9 | 91 | 825 | -21 | 5 | 80 | 819 | -23 | 7 | 91 | 827 | -25 | 1 | 307 | 822 | -26 | 4 | 56 | 815 | -21 | 12 | 95 |
| 21 | 820 | -23 | 10 | 82 | 822 | -23 | 8 | 84 | 825 | -22 | 6 | 87 | 818 | -20 | 7 | 97 | 827 | -27 | 2 | 343 | 822 | -26 | 4 | 74 | 814 | -19 | 11 | 84 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  |  | 28 |  |
| 00 | 815 | -18 | 7 | 90 | 819 | -14 | 3 | 26 | 817 | -20 | 6 | 87 | 818 | -27 | 4 | 94 | 829 | -30 | 6 | 94 | 826 | -26 | 5 | 95 | 813 | -22 | 6 | 98 |
| 03 | 815 | -17 | 6 | 94 | 819 | -14 | 3 | 37 | 815 | -24 | 8 | 85 | 819 | -29 | 6 | 87 | 830 | -33 | 6 | 87 | 825 | -26 | 5 | 105 | 811 | -25 | 8 | 102 |
| 06 | 816 | -13 | 3 | 326 | 819 | -15 | 2 | 75 | 815 | -25 | 5 | 102 | 820 | -30 | 6 | 84 | 830 | -34 | 8 | 87 | 824 | -25 | 2 | 84 | 809 | -27 | 10 | 109 |
| 09 | 817 | -14 | 2 | 340 | 819 | -16 | 4 | 90 | 815 | -28 | 6 | 98 | 821 | -32 | 6 | 81 | 830 | -33 | 6 | 90 | 823 | -23 | 2 | 327 | 808 | -27 | 10 | 84 |
| 12 | 818 | -13 | 2 | 25 | 819 | -19 | 7 | 95 | 815 | -25 | 7 | 95 | 823 | -33 | 7 | 75 | 829 | -36 | 6 | 95 | 822 | -23 | 2 | 343 | 808 | -26 | 9 | 101 |
| 15 | 818 | -14 |  | 360 | 818 | -21 | 7 | 94 | 816 | -27 | 5 | 80 | 825 | -32 | 8 | 82 | 828 | -34 | 7 | 81 | 820 | -23 | 3 | 330 | 807 | -24 | 13 | 102 |
| 18 | 818 | -14 | 3 | 32 | 817 | -19 | 7 | 85 | 816 | -27 |  | 109 | 827 | -31 | 6 | 77 | 827 | -33 | 7 | 90 | 819 | -21 | 1 | 22 | 807 |  |  | 101 |
| 21 | 819 | -14 | 5 | 26 | 817 | -19 | 7 | 87 | 817 | -25 | 5 | 87 | 828 | -31 | 6 | 88 | 827 | -29 | 5 | 85 | 816 | -21 | 4 | 60 | 807 | -19 | 8 | 102 |

* temperature ( $C$ ) * mean $=-20.0$ Std dev $=6.1$ max $=-5.9$ at 2310 GMT on day 1 min $=-35.9$ at 1150 GMt on day 26
* theta (K) * MEAN $=267.73$
* PRESSURE (MB) * MEAN $=822.6$ STD DEV $=6.4$ MAX $=837.3$ at 1920 GMT ON DAY 2 MIN $=807.1$ AT 1600 GMT ON DAY 28 * WINDS (M/S) * MEAN $=5.9$ STD DEV $=2.7$ RESULTANT $=5.1$ fROM 83. CONSTANCY $=0.87$ MAX $=14.8$ FROM 87. AT 20 GMT DAY 15 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.9 \%$ PRESSURE: $0.9 \%$ WINDS: $0.9 \%$

 PERCENT
$\begin{array}{lrrrrrrrrrrrrrrr}4 & 2 & 3 & 14 & 58 & 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 4 & 5\end{array}$

MAR 97
$\begin{array}{ll}\text { HR PP TT WV } \\ & \text { DAY } 1\end{array}$
$\begin{array}{lllll}00 & 808 & -17 & 9 & 105\end{array}$
$\begin{array}{lllll}03 & 809 & -17 & 8 & 94\end{array}$
$\begin{array}{lllll}06 & 809 & -16 & 10 & 102\end{array}$
$\begin{array}{lllll}09 & 810 & -15 & 11 & 101\end{array}$
$\begin{array}{lllll}12 & 811 & -15 & 7 & 92\end{array}$
$\begin{array}{lllll}15 & 812 & -14 & 6 & 87\end{array}$
$\begin{array}{lllll}18 & 813 & -14 & 8 & 67\end{array}$
$\begin{array}{lllll}21 & 814 & -14 & 6 & 60\end{array}$ DAY 8
$\begin{array}{llll}00 & 806 & -26 & 12 \\ 80\end{array}$
$\begin{array}{lllll}03 & 806 & -26 & 9 & 92\end{array}$
$\begin{array}{lllll}06 & 807 & -27 & 11 & 91\end{array}$
$\begin{array}{lllll}09 & 809 & -27 & 10 & 82\end{array}$
$\begin{array}{lllll}12 & 809 & -27 & 8 & 71\end{array}$
$\begin{array}{lllll}15 & 810 & -28 & 11 & 90\end{array}$
$\begin{array}{lllll}18 & 810 & -27 & 9 & 59\end{array}$
$\begin{array}{lllll}21 & 811 & -26 & 10 & 97\end{array}$
DAY 15
$\begin{array}{lllll}00 & 818 & -21 & 3 & 63\end{array}$
$\begin{array}{lllll}03 & 818 & -20 & 5 & 94\end{array}$
$\begin{array}{lllll}06 & 818 & -21 & 5 & 60\end{array}$
$\begin{array}{lllll}09 & 817 & -25 & 6 & 101\end{array}$
$\begin{array}{lllll}12 & 816 & -22 & 5 & 87\end{array}$
$\begin{array}{lllll}15 & 815 & -23 & 7 & 94\end{array}$
$\begin{array}{lllll}18 & 815 & -24 & 6 & 90\end{array}$
$\begin{array}{lllll}21 & 814 & -25 & 5 & 87\end{array}$
DAY 22
$\begin{array}{lllll}00 & 822 & -18 & 8 & 91\end{array}$
$\begin{array}{lllll}03 & 822 & -19 & 9 & 85\end{array}$
$\begin{array}{lllll}06 & 822 & -20 & 7 & 92\end{array}$
$\begin{array}{llll}09 & 823 & -20 & 6\end{array} 90$
$\begin{array}{lllll}12 & 822 & -26 & 5 & 85\end{array}$
$\begin{array}{lllll}15 & 822 & -26 & 7 & 94\end{array}$
$\begin{array}{lllll}18 & 821 & -26 & 6 & 90\end{array}$
$\begin{array}{lllll}21 & 821 & -26 & 7 & 95\end{array}$
DAY 29
$\begin{array}{llll}00 & 797 & -26 & 21 \\ 91\end{array}$
$\begin{array}{lllll}03 & 798 & -26 & 16 & 102\end{array}$
$\begin{array}{lllll}06 & 800 & -26 & 15 & 88\end{array}$
$\begin{array}{lllll}09 & 802 & -25 & 17 & 88\end{array}$
$\begin{array}{lllll}12 & 803 & -25 & 16 & 85\end{array}$
$\begin{array}{lllll}15 & 803 & -24 & 19 & 88\end{array}$
$\begin{array}{lllll}18 & 805 & -25 & 17 & 88\end{array}$
$\begin{array}{lllll}21 & 805 & -26 & 17 & 88\end{array}$

PP TT VV DD PP TT VV DD

$$
\text { DAY } 2
$$

$$
\begin{array}{llll}
815 & -14 & 6 & 94
\end{array}
$$

$$
\begin{array}{llll}
816 & -15 & 5 & 88
\end{array}
$$

$$
\begin{array}{llll}
817 & -17 & 7 & 94
\end{array}
$$

$$
\begin{array}{llll}
817 & -18 & 7 & 88
\end{array}
$$

$$
\begin{array}{llll}
818 & -17 & 5 & 91
\end{array}
$$

$$
\begin{array}{llll}
818 & -16 & 5 & 74
\end{array}
$$

$$
818-16 \quad 4 \quad 54
$$

$$
\begin{array}{llll}
817 & -16 \quad 4 & 75
\end{array}
$$

$$
\text { DAY } 9
$$

$\begin{array}{llll}811 & -26 & 10 & 101\end{array}$
$\begin{array}{llll}812 & -27 & 6 & 87\end{array}$
$\begin{array}{llll}812 & -29 & 6 & 87\end{array}$
812-29 $6 \quad 92$
812-29 $8 \quad 52$
$\begin{array}{llll}812 & -27 & 6 & 80\end{array}$
$\begin{array}{llll}812 & -26 & 6 & 92\end{array}$
$812-26 \quad 4 \quad 77$
DAY 16
$\begin{array}{llll}813 & -25 & 6 & 95\end{array}$
812-22 $5 \quad 98$
$\begin{array}{llll}811 & -24 & 7 & 91\end{array}$
$\begin{array}{llll}810 & -26 & 9 & 97\end{array}$
$\begin{array}{llll}809 & -27 & 7 & 85\end{array}$
$\begin{array}{llll}807 & -24 & 6 & 98\end{array}$
$\begin{array}{llll}806 & -24 & 5 & 91\end{array}$
805-29 6
DAY 23
$\begin{array}{llll}821 & -26 & 8 & 98\end{array}$
$\begin{array}{llll}820 & -26 & 7 & 92\end{array}$
$\begin{array}{llll}820 & -25 & 8 & 99\end{array}$
$\begin{array}{llll}819 & -25 & 7 & 97\end{array}$
$819-26 \quad 8 \quad 91$
$\begin{array}{llll}818 & -28 & 6 & 88\end{array}$
$\begin{array}{llll}817 & -31 & 6 & 99\end{array}$
$\begin{array}{llll}817 & -30 & 6 & 91\end{array}$
day 30
806-26 1491
807-26 $11 \begin{array}{lll} & 82\end{array}$
$\begin{array}{llll}807 & -27 & 12 & 87\end{array}$
808-28 $10 \quad 94$
808-28 1194
808-29 $13 \quad 77$
808-29 11105
808 -26 1299

DAY 3
817-16 $4 \quad 82$
816-16 $5 \quad 82$
816-16 $4 \quad 52$
815-16 3 75
815-17 $\begin{array}{llll} & -17 & 25\end{array}$
814-17 $\quad 4 \quad 68$
$\begin{array}{llll}814 & -17 & 3 & 73\end{array}$
814-19 578

## DAY 10

812-25 4302
812-27 4302
$\begin{array}{lll}811 & -28 \quad 4312\end{array}$
$\begin{array}{llll}810 & -28 & 3 & 327\end{array}$
808-28 130
$\begin{array}{llll}805 & -31 & 5 & 85\end{array}$
$\begin{array}{llll}803 & -32 & 5 & 98\end{array}$
802-32 $7 \quad 92$

## DAY 17

804-26 678
$\begin{array}{llll}804 & -25 & 8 & 98\end{array}$
$\begin{array}{llll}804 & -27 & 7 & 92\end{array}$
$\begin{array}{llll}804 & -27 & 8 & 97\end{array}$
$\begin{array}{llll}805 & -29 & 7 & 87\end{array}$
$\begin{array}{llll}806 & -29 & 6 & 87\end{array}$
$807-31 \quad 4104$
808 -31 3215 DAY 24
$\begin{array}{llll}817 & -31 & 6 & 99\end{array}$
$\begin{array}{llll}817 & -33 & 6 & 99\end{array}$
$\begin{array}{llll}817 & -31 & 8 & 87\end{array}$
817-36 6105
$\begin{array}{llll}818 & -37 & 6 & 98\end{array}$
818-38 6106
$\begin{array}{llll}819 & -38 & 5 & 95\end{array}$
$\begin{array}{llll}820 & -38 & 5 & 92\end{array}$ DAY 31
809-25 13 90
$\begin{array}{llll}809 & -25 & 10 & 74\end{array}$
$\begin{array}{llll}808 & -24 & 9 & 84\end{array}$
808-24 $8 \quad 80$
809-31 $6 \quad 82$
$\begin{array}{llll}809 & -31 & 9 & 95\end{array}$
807-30 1197

$$
\text { DAY } 5
$$

$810-20881$ $811-20 \quad 9 \quad 75$ $812-201495$ 812-19 $10 \quad 95$ 811-19 12101 809-19 $12 \quad 87$
808 -20 15113
807 -20 18101

## DAY 12

796-26 $14 \quad 97$ 793-24 18 90
792-23 1795
$\begin{array}{llll}791 & -22 & 17 & 70\end{array}$
$\begin{array}{llll}792 & -22 & 16 & 97\end{array}$
794-22 1195
$795-201391$
796-18 10 99

## DAY 19

$811-40 \quad 4 \quad 88$
$\begin{array}{llll}811 & -41 & 4 & 90\end{array}$
$811-40 \quad 3 \quad 94$
$811-40 \quad 4 \quad 98$
$\begin{array}{llll}812 & -36 & 3 & 74\end{array}$
$\begin{array}{llll}813 & -35 & 3 & 67\end{array}$
$\begin{array}{llll}813 & -36 & 3 & 99\end{array}$
$\begin{array}{llll}813 & -35 & 5 & 88\end{array}$
DAY 26
822 $\begin{array}{llll}-36 & 8 & 88\end{array}$
$\begin{array}{llll}820 & -35 & 10 & 87\end{array}$
818 -34 $10 \quad 88$
$\begin{array}{llll}816 & -32 & 9 & 97\end{array}$
814-31 984
813-33 988
$\begin{array}{llll}812 & -31 & 8 & 87\end{array}$
$\begin{array}{llll}811 & -29 & 9 & 88\end{array}$

DAY 6
807-21 11101
806-22 19105
807 -23 13105
806-22 $12 \quad 98$
$\begin{array}{llll}806 & -23 & 13 & 99\end{array}$
$\begin{array}{llll}806 & -23 & 13 & 104\end{array}$
805-22 $13 \quad 97$
805-22 1294 DAY 13
797-15 7 70
$\begin{array}{llll}798 & -12 & 6 & 47\end{array}$
800-12 $\quad 6 \quad 42$
$\begin{array}{llll}801 & -13 & 7 & 30\end{array}$
804-13 $5 \quad 47$
805-13 $6 \quad 60$
807-13 $5 \quad 84$
809-13 6 DAY 20
$\begin{array}{llll}813 & -35 & 6 & 91\end{array}$
$\begin{array}{llll}813 & -35 & 7 & 88\end{array}$
814-32 6
$\begin{array}{llll}814 & -33 & 6 & 95\end{array}$
$\begin{array}{llll}814 & -28 & 6 & 85\end{array}$
$\begin{array}{llll}815 & -28 & 7 & 82\end{array}$
$\begin{array}{llll}816 & -26 & 8 & 94\end{array}$ $\begin{array}{llll}817 & -26 & 8 & 88\end{array}$

DAY 27
$\begin{array}{llll}810 & -27 & 8 & 88\end{array}$
$\begin{array}{llll}810 & -30 & 6 & 94\end{array}$
$\begin{array}{llll}809 & -31 & 8 & 88\end{array}$
808-30 12106
808-30 10105
$\begin{array}{lllll}808 & -31 & 12 & 94\end{array}$
$\begin{array}{lllll}808 & -32 & 13 & 98\end{array}$
$\begin{array}{llll}808 & -30 & 17 & 88\end{array}$

PP TT VV DD DAY 7
$805-231394$
805-24 9 95
805-28 981
$\begin{array}{lll}806 & -29 \quad 7 \quad 92\end{array}$
$805-2711 \quad 91$
$\begin{array}{llll}805 & -27 & 11 & 88\end{array}$
$\begin{array}{lll}805 & -26 \quad 11 \quad 97\end{array}$
806 -26 10102 DAY 14
810-14 674
812-15 $4 \quad 47$
813-16 $\quad 5 \quad 73$
$\begin{array}{llll}814 & -20 & 5 & 91\end{array}$
$\begin{array}{llll}815 & -24 & 7 & 97\end{array}$
816-20 684
$817-20 \quad 5 \quad 85$
818-19 $4 \quad 53$
DAY 21
817-26 $8 \quad 88$
$\begin{array}{llll}818 & -26 & 7 & 87\end{array}$
$\begin{array}{llll}819 & -25 & 7 & 88\end{array}$
$\begin{array}{llll}819 & -23 & 7 & 98\end{array}$
$820-22 \quad 6 \quad 92$
820 - $21 \quad 7104$
$\begin{array}{llll}821 & -18 & 7 & 87\end{array}$
822-18 $6 \quad 74$ DAY 28
808-31 14104
806-29 $14 \quad 88$
803 -29 1997
$\begin{array}{llll}802 & -28 & 16 & 91\end{array}$
$\begin{array}{llll}799 & -26 & 17 & 90\end{array}$
797-26 $20 \quad 90$
797-26 18 90
796-25 $22 \quad 92$

* temperature ( $C$ ) * mean $=-25.8$ Std dev $=7.0$ MAX $=-12.0$ AT 300 GMT ON DAY 13 MIN $=-44.6$ AT 1220 GMT ON dAY 18
* theta (K) * MEAN $=262.74$
* PRESSURE (MB) * MEAN $=810.4$ STD DEV $=6.9$ MAX $=823.1$ AT 1810 GMT ON DAY 25 MIN $=790.7$ AT 730 GMT ON DAY 12
* WINDS (M/S) * MEAN $=8.4 \mathrm{STD}$ DEV $=4.1$ RESULTANT $=8.1 \mathrm{FROM} 90$. CONSTANCY $=0.96 \mathrm{MAX}=24.2$ FROM 97. AT 1610 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 $\begin{array}{lllllllllllllllllll}\text { PERCENT: } & 0 & 11 & 22 & 23 & 15 & 11 & 7 & 5 & 4 & 2 & & 1 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
PERCENT

* TEMPERATURE (C) * MEAN $=-27.1$ STD DEV $=6.2$ MAX $=-15.0$ AT 2320 GMT ON DAY 18 MIN $=-39.2$ AT 800 GMT ON DAY 28
* THETA (K) * MEAN $=260.94$
* PRESSURE (MB) * MEAN $=813.9$ STD DEV $=7.7$ MAX $=830.5$ AT 1450 GMT ON DAY 18 MIN $=799.5$ AT 1520 GMT ON DAY 11 * WINDS (M/S) * MEAN $=11.6$ STD DEV $=4.8$ RESULTANT $=11.3$ FROM 94. CONSTANCY $=0.97$ MAX $=25.5$ FROM 113 . AT 440 GMT DAY 17 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllll}\text { PERCENT } & 1 & 1 & 2 & 8 & 65 & 20 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0\end{array}$

MAY
97

00
03
$\begin{array}{lllll}06 & 816 & -28 & 12 & 84\end{array}$
$\begin{array}{lllll}09 & 816 & -28 & 10 & 90\end{array}$
$\begin{array}{lllll}12 & 816 & -28 & 8 & 87\end{array}$
$\begin{array}{lllll}15 & 815 & -27 & 9 & 92\end{array}$
$\begin{array}{lllll}18 & 814 & -28 & 8 & 90\end{array}$
$\begin{array}{lllll}21 & 812 & -27 & 9 & 88\end{array}$ DAY 8

PP TT VV DD
DAY 2
$\begin{array}{llll}810 & -27 & 12 & 98\end{array}$
$\begin{array}{llll}807 & -27 & 13 & 73\end{array}$
$\begin{array}{llll}806 & -26 & 11 & 84\end{array}$
$\begin{array}{llllllll}806 & -24 & 15 & 91 & 806 & -31 & 15 & 84\end{array}$
$\begin{array}{llllllll}806 & -24 & 12 & 91 & 807 & -30 & 17 & 99\end{array}$
$\begin{array}{llllllll}805 & -24 & 13 & 82 & 806 & -28 & 16 & 98\end{array}$
$\begin{array}{llllllll}806 & -26 & 13 & 80 & 806 & -28 & 14 & 73\end{array}$
$\begin{array}{llllllll}807 & -27 & 12 & 87 & 806 & -27 & 18 & 84\end{array}$
DAY 9
DAY 10
TT VV DD

PP TT VV DD
PP TT VV DD DAY 5

PP
TT VV DD DAY 6

PP TT VV DD DAY 7
801-26 $16 \quad 78$
$801-24 \quad 15 \quad 90$
$\begin{array}{llll}801 & -25 & 18 & 70\end{array}$
$\begin{array}{llll}802 & -26 \quad 13 & 19\end{array}$

00
03
06
09
12
15
18
21
DAY 15
DAY 16
DAY 17
DAY 18
DAY 19
$807-27 \quad 16 \quad 88$

DAY 20
DAY 21
00
03
06
09
12
15
18
21
DAY 22
DAY 23
DAY 24
DAY 25
DAY 26
DAY 27
DAY 28

00
03
06
09
12
15

DAY 30
DAY 31

00

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT 0 GMT ON DAY 0
* THETA (K) * MEAN $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY O
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $85.5 \%$ PRESSURE: $85.5 \%$ WINDS: $85.5 \%$

WIND SPEED (M/S): 0-2 2-4 $4-6 \quad 6-8 \quad 8-1010-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

00
03
06
09
12
15
18
21

|  |  | DAY | 8 |  |  | DAY | 9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 798 | -39 | 16 | 88 |  |  |  |  |
| 03 | 796 | -37 | 19 | 99 | 799 | -29 | 23 | 80 |
| 06 | 794 | -32 | 20 | 82 | 801 | -30 | 21 | 85 |
| 09 | 796 | -33 | 20 | 116 |  |  |  |  |



789-36 17105 DAY 12

816-24 1199
$\begin{array}{llll}815 & -24 & 18 & 94\end{array}$
815 -23 16104
$\begin{array}{llll}814 & -24 & 15 & 98\end{array}$ $812-2414 \quad 95$ $\begin{array}{llll}811 & -25 & 17 & 87\end{array}$ $810-26 \quad 14 \quad 99$ $809-26 \quad 15 \quad 87$ DAY 19 813-26 $11 \quad 68$ $814-27 \quad 9 \quad 82$ 814-27 $10 \quad 81$ 815-27 $10 \quad 99$ 816-26 $10 \quad 92$ 815-28 $8 \quad 88$ 815-31 8102 $\begin{array}{llll}815 & -29 & 6 & 82\end{array}$ DAY 26
806-32 1297 $\begin{array}{llll}806 & -31 & 11 & 94\end{array}$ 806 -31 10102 $\begin{array}{llll}805 & -30 & 11 & 94\end{array}$ $\begin{array}{lllll}806 & -30 & 10 & 84\end{array}$ $\begin{array}{llll}805 & -32 & 7 & 85\end{array}$
$\begin{array}{llll}804 & -35 & 6 & 81\end{array}$
$\begin{array}{llll}803 & -37 \quad 6 \quad 80\end{array}$

| PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 790 | -35 | 26 | 101 | 789 | -37 | 18 | 92 |
| 789 | -36 | 21 | 108 |  |  |  |  |
| 789 | -38 | 23 | 98 |  |  |  |  |
| 789 | -38 | 19 | 95 | 788 | -37 | 21 | 99 |
| 789 | -37 | 21 | 108 | 789 | -37 | 21 | 88 |
| 787 | -37 | 23 | 116 | 790 | -36 | 21 | 85 |
| 786 | -36 | 20 | 106 | 792 | -37 | 18 | 78 |
| 788 | -36 | 17 | 115 | 796 | -39 | 19 | 78 |
|  | DaY | 13 |  |  | DAY | 14 |  |
| 809 | -24 | 17 | 90 | 818 | -27 | 17 | 92 |
| 810 | -26 | 15 | 77 | 819 | -28 | 18 | 92 |
| 811 | -26 | 13 | 94 | 821 | -28 | 12 | 99 |
| 812 | -26 | 13 | 98 | 822 | -28 | 17 | 75 |
| 813 | -27 | 15 | 87 | 824 | -28 | 17 | 88 |
| 814 | -27 | 14 | 85 | 825 | -28 | 13 | 91 |
| 815 | -27 | 14 | 77 | 825 | -29 | 14 | 87 |
| 816 | -26 | 19 | 102 | 825 | -29 | 11 | 73 |
|  | DAY | 20 |  |  | DAY | 21 |  |
| 814 | -27 | 10 | 94 | 810 | -27 | 12 | 90 |
| 813 | -26 | 8 | 94 | 811 | -30 | 11 | 73 |
| 811 | -25 | 14 | 106 | 810 | -28 | 11 | 101 |
| 811 | -25 | 11 | 106 | 811 | -28 | 13 | 94 |
| 810 | -25 | 11 | 101 | 811 | -28 | 12 | 94 |
| 810 | -25 | 8 | 87 | 812 | -29 | 10 | 115 |
| 809 | -27 | 7 | 73 | 812 | -29 | 9 | 94 |
| 810 | -25 | 9 | 105 | 811 | -29 | 7 | 88 |
|  | DAY | 27 |  |  | DAY | 28 |  |
| 802 | -41 | 5 | 82 | 801 | -46 | 7 | 77 |
| 800 | -44 | 6 | 78 | 803 | -46 | 6 | 75 |
| 800 | -43 | 6 | 91 | 804 | -47 | 6 | 78 |
| 798 | -44 | 6 | 81 | 806 | -48 | 6 | 80 |
| 798 | -44 | 8 | 88 | 808 | -47 | 7 | 81 |
| 798 | -45 | 7 | 80 | 810 | -47 | 7 | 85 |
| 798 | -45 | 7 | 77 | 811 | -46 | 6 | 82 |
| 799 | -46 | 6 | 82 | 812 | -45 | 7 | 74 |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-30.5$ STD DEV $=6.3$ MAX $=-19.6$ AT 1000 GMT ON DAY 10 MIN $=-49.2$ AT 1020 GMT ON DAY 28
* THETA (K) * MEAN $=257.84$
* PRESSURE (MB) * MEAN $=809.2$ STD DEV $=7.8$ MAX $=825.5$ AT 1810 GMT ON DAY 14 MIN $=785.3$ AT 1810 GMT ON DAY 6 * WINDS (M/S) * MEAN $=12.4$ STD DEV $=4.6$ RESULTANT $=12.2$ FROM 92. CONSTANCY $=0.98$ MAX $=28.7$ FROM 118 . AT 1250 GMT DAY 6 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $21.8 \%$ PRESSURE: $21.8 \%$ WINDS: $21.8 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 -10 $10-1212-14 \quad 14-16 \quad 16-18$ 18-20 $\quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllllll} & 0 & 0 & 0 & 13 & 75 & 11 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP TT WV DD |  |
| :--- | :--- | :--- | :--- |
|  | DAY | 1 |

$\begin{array}{llll}00 & 816 & -27 & 15 \\ 97\end{array}$
$\begin{array}{lllll}03 & 814 & -26 & 15 & 85\end{array}$ $\begin{array}{lllll}06 & 815 & -25 & 13 & 82\end{array}$ $\begin{array}{lllll}09 & 815 & -26 & 15 & 90\end{array}$ $\begin{array}{lllll}12 & 815 & -27 & 16 & 97\end{array}$ $\begin{array}{lllll}15 & 815 & -27 & 16 & 99\end{array}$ $\begin{array}{lllll}18 & 816 & -27 & 13 & 97\end{array}$
$\begin{array}{lllll}21 & 816 & -26 & 17 & 85\end{array}$ DAY 8
$\begin{array}{lllll}00 & 810 & -29 & 12 & 91\end{array}$
$\begin{array}{lllll}03 & 809 & -30 & 12 & 94\end{array}$
$\begin{array}{lllll}06 & 808 & -30 & 15 & 97\end{array}$
$\begin{array}{lllll}09 & 807 & -31 & 11 & 92\end{array}$
$\begin{array}{lllll}12 & 806 & -31 & 11 & 97\end{array}$
$\begin{array}{lllll}15 & 806 & -30 & 18 & 97\end{array}$
$\begin{array}{lllll}18 & 806 & -31 & 12 & 112\end{array}$
$\begin{array}{lllll}21 & 807 & -31 & 13 & 90\end{array}$ DAY 15
$\begin{array}{lllll}00 & 800 & -41 & 13 & 95\end{array}$
$\begin{array}{lllll}03 & 801 & -39 & 13 & 92\end{array}$
$\begin{array}{lllll}06 & 802 & -39 & 18 & 92\end{array}$
$\begin{array}{llllll}09 & 802 & -38 & 15 & 105\end{array}$
$\begin{array}{lllll}12 & 801 & -38 & 17 & 88\end{array}$
$\begin{array}{lllll}15 & 800 & -36 & 19 & 99\end{array}$
$\begin{array}{lllll}18 & 798 & -38 & 17 & 102\end{array}$
$\begin{array}{lllll}21 & 799 & -38 & 17 & 95\end{array}$ DAY 22
$\begin{array}{llll}00 & 827 & -18 & 9 \\ 104\end{array}$
$\begin{array}{lllll}03 & 826 & -16 & 9 & 99\end{array}$
$\begin{array}{lllll}06 & 823 & -16 & 9 & 90\end{array}$
$\begin{array}{lllll}09 & 822 & -15 & 9 & 84\end{array}$
$\begin{array}{lllll}12 & 822 & -13 & 8 & 53\end{array}$
$\begin{array}{lllll}15 & 823 & -15 & 10 & 88\end{array}$
$\begin{array}{lllll}18 & 823 & -16 & 11 & 92\end{array}$
$\begin{array}{lllll}21 & 824 & -12 & 9 & 82\end{array}$ DAY 29
$\begin{array}{lllll}00 & 817 & -28 & 9 & 78\end{array}$
$\begin{array}{lllll}03 & 816 & -29 & 10 & 92\end{array}$
$\begin{array}{lllll}06 & 816 & -30 & 11 & 91\end{array}$
$\begin{array}{lllll}09 & 817 & -29 & 12 & 94\end{array}$
$\begin{array}{lllll}12 & 817 & -26 & 12 & 87\end{array}$
$\begin{array}{lllll}15 & 817 & -26 & 11 & 81\end{array}$
$\begin{array}{lllll}18 & 818 & -26 & 9 & 81\end{array}$
$\begin{array}{llll}21 & 818 & -25 & 9\end{array}$


| PP |  |  |  |
| :---: | :---: | :---: | :---: |
| IT |  | WV | DD |
| DAY | 4 |  |  |
| 813 | -22 | 7 | 85 |
| 812 | -23 | 7 | 87 |
| 811 | -23 | 6 | 77 |
| 810 | -23 | 8 | 81 |
| 809 | -24 | 6 | 92 |
| 808 | -25 | 9 | 87 |
| 808 | -26 | 9 | 92 |
| 808 | -27 | 10 | 97 |


| PP | TT VV | DD |  |
| ---: | ---: | ---: | ---: |
| DAY | 5 |  |  |
| 810 | -29 | 9 | 97 |

        \(\begin{array}{llll}810 & -29 & 11 & 104\end{array}\)
        \(810-26 \quad 10 \quad 97\)
        \(\begin{array}{llll}812 & -24 & 9 & 84\end{array}\)
        \(\begin{array}{llll}811 & -27 & 14 & 73\end{array}\)
        812-27 \(12 \quad 82\)
        \(\begin{array}{llll}814 & -28 & 14 & 81\end{array}\)
        \(814-301382\)
        DAY 12
        817 -37 1480
        818-38 985
        \(\begin{array}{llll}818 & -38 & 9 & 88\end{array}\)
        \(\begin{array}{llll}817 & -38 & 8 & 99\end{array}\)
        \(\begin{array}{llll}817 & -36 & 10 & 94\end{array}\)
        \(\begin{array}{lllll}816 & -36 & 10 & 98\end{array}\)
        \(\begin{array}{llll}815 & -37 & 9 & 88\end{array}\)
        \(\begin{array}{llll}814 & -36 & 6 & 85\end{array}\)
        DAY 19
        816-40 971
        \(\begin{array}{llll}815 & -41 & 8 & 74\end{array}\)
        \(815-40 \quad 7 \quad 81\)
        \(813-40 \quad 9 \quad 94\)
        \(813-3910 \quad 82\)
        \(\begin{array}{lllll}813 & -40 & 11 & 88\end{array}\)
        813-38 \(9 \quad 92\)
        814-37 7. 74
            DAY 26
        821-15 1299
        818-17 11115
        818 -20 11105
        \(815-2111 \quad 98\)
        812 -20 \(11 \quad 88\)
        \(810-1916106\)
        808-18 17108
        808-18 6142
    PP TT VV DD DAY 6
813-29 $16 \quad 88$
$\begin{array}{llll}813 & -28 & 11 & 81\end{array}$
$\begin{array}{llll}813 & -28 & 18 & 78\end{array}$
$\begin{array}{llll}813 & -27 & 13 & 87\end{array}$
$\begin{array}{llll}813 & -28 & 13 & 81\end{array}$
$\begin{array}{llll}813 & -28 & 13 & 80\end{array}$
$\begin{array}{llll}812 & -28 & 15 & 75\end{array}$
$\begin{array}{llll}811 & -29 & 11 & 80\end{array}$
DAY 13
$\begin{array}{llll}813 & -37 & 5 & 94\end{array}$
$\begin{array}{llll}811 & -37 & 5 & 84\end{array}$
809-39
807-43
806-39
804-48
802-47 $4 \quad 99$
$802-48 \quad 588$
DAY 20
815-37 $10 \quad 81$
$\begin{array}{llll}816 & -39 & 9 & 90\end{array}$
$\begin{array}{llll}818 & -40 & 9 & 73\end{array}$
$\begin{array}{llll}819 & -37 & 8 & 91\end{array}$
$\begin{array}{llll}821 & -40 & 8 & 98\end{array}$
$\begin{array}{llll}820 & -39 & 9 & 85\end{array}$
$\begin{array}{llll}820 & -35 & 10 & 88\end{array}$
$\begin{array}{llll}820 & -34 & 11 \quad 94\end{array}$
DAY 27
807-24 4208
$\begin{array}{llll}806 & -28 & 10 & 97\end{array}$
$\begin{array}{lll}807 & -34 \quad 18 \quad 98\end{array}$
$\begin{array}{llll}808 & -36 & 21 & 97\end{array}$
$\begin{array}{llll}810 & -35 & 17 & 95\end{array}$
$\begin{array}{llll}811 & -34 & 17 & 91\end{array}$
$\begin{array}{lllll}813 & -34 & 16 & 85\end{array}$
$815-33 \quad 16 \quad 91$

PP TT VV DD DAY 7
811 -28 $15 \quad 92$ $\begin{array}{llll}810 & -28 & 14 & 84\end{array}$ $810-291282$ 809-29 1180
$810-2911 \quad 77$
$810-291380$
$810-3014 \quad 70$
$810-301485$
DAY 14
802-50 590
$\begin{array}{llll}801 & -51794\end{array}$
$\begin{array}{llll}800 & -49 & 6 & 85\end{array}$
$\begin{array}{llll}800 & -49 & 8 & 77\end{array}$
$800-48 \quad 8 \quad 91$
$\begin{array}{llll}800 & -48 & 8 & 94\end{array}$
$\begin{array}{llll}800 & -44 & 10 & 98\end{array}$
800-42 12109 DAY 21
$\begin{array}{llll}820 & -32 & 12 & 99\end{array}$
$\begin{array}{llll}819 & -33 & 9 & 102\end{array}$
$\begin{array}{llll}819 & -30 & 11 & 105\end{array}$
820-28 13102
822-25 $12 \quad 98$
$\begin{array}{llll}824 & -23 & 9 & 99\end{array}$
$\begin{array}{llll}826 & -21 & 8 & 85\end{array}$
827-19 $7 \quad 91$
DAY 28
$\begin{array}{llll}816 & -31 & 13 & 94\end{array}$
815 -32 11105
814-31 $12 \quad 92$
814-30 $10 \quad 97$
$813-29 \quad 9111$
$\begin{array}{llll}814 & -28 & 10 & 87\end{array}$
$\begin{array}{llll}815 & -27 & 8 & 84 \\ 816 & -28 & 10 & 75\end{array}$

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-29.6$ Std dev $=9.1$ max $=-10.4$ at 2230 GMT ON dAY 22 MIN $=-50.8$ at 220 GMt ON day 14
* THETA (K) * MEAN $=258.40$
* PRESSURE (MB) * MEAN $=813.1$ STD DEV $=8.5$ MAX $=831.4$ AT 1730 GMT ON DAY 24 MIN $=789.1$ AT 1310 GMT ON DAY 10
* WINDS (M/S) * MEAN $=11.1 \mathrm{STD}$ DEV $=3.4$ RESULTANT $=11.0$ FROM 90 . CONSTANCY $=0.98$ MAX $=23.6$ FROM 111 . AT 820 GMT DAY 27
* MISSING 3-hourly observations * temperature: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $1.7 \%$


PERCENT
$\begin{array}{llllllllllllllll}0 & 0 & 1 & 9 & 80 & 9 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* TEMPERATURE (C)* MEAN $=-22.2$ STD DEV $=4.4$ MAX $=-12.4$ AT 440 GMT ON DAY 24 MIN $=-31.5$ AT 720 GMT ON DAY 17
* THETA (K) * MEAN $=266.19$
* PRESSURE (MB) * MEAN $=814.2$ STD DEV $=6.8$ MAX $=826.9$ AT 1410 GMT ON DAY 11 MIN $=797.6$ AT 2140 GMT ON DAY 31
* WINDS (M/S) * MEAN $=10.0$ STD DEV $=3.0$ RESULTANT $=9.3$ FROM 77 . CONSTANCY $=0.93 \mathrm{MAX}=21.6$ FROM 98 . AT 920 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT
WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
2 & 2 & 14 & 30 & 45 & 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2
\end{array}
$$

## NOV 97

| HR | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD | PP |  |  | DD | PP |  | VV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 798 | -24 | 15 | 82 | 805 | -26 | 8 | 78 | 806 | -20 | 9 | 57 | 817 | -17 | 8 | 87 | 819 | -18 | 15 | 74 | 818 | -17 | 6 | 75 | 826 | -15 | 11 | 88 |
| 03 | 800 | -25 | 12 | 98 | 805 | -26 | 13 | 68 | 807 | -21 | 10 | 73 | 816 | -18 | 11 | 84 | 819 | -20 | 16 | 78 | 816 | -20 | 10 | 60 | 827 | -17 | 11 | 82 |
| 06 | 802 | -28 | 10 | 88 | 805 | -27 | 9 | 88 | 808 | -23 | 14 | 42 | 816 | -20 | 14 | 33 | 820 | -21 | 15 | 75 | 817 | -20 | 7 | 77 | 829 | -19 | 10 | 94 |
| 09 | 803 | -28 | 12 | 49 | 805 | -27 | 12 | 49 | 809 | -23 | 14 | 71 | 816 | -21 | 13 | 90 | 821 | -21 | 15 | 92 | 817 | -16 | 9 | 82 | 830 | -19 | 13 | 82 |
| 12 | 804 | -27 | 12 | 60 | 805 | -26 | 11 | 85 | 811 | -22 | 11 | 64 | 815 | -21 | 16 | 105 | 821 | -20 | 12 | 19 | 819 | -15 | 11 | 80 | 829 | -19 | 16 | 87 |
| 15 | 805 | -28 | 12 | 92 | 804 | -24 | 16 | 88 | 812 | -21 | 11 | 36 | 816 | -21 | 13 | 98 | 821 | -20 | 12 | 97 | 821 | -16 | 12 | 92 | 829 | -19 | 14 | 85 |
| 18 | 805 | -28 | 9 | 84 | 805 | -22 | 9 | 64 | 814 | -20 | 8 | 80 | 817 | -20 | 15 | 63 | 821 | -18 | 12 | 70 | 822 | -15 | 11 | 84 | 829 | -19 | 17 | 73 |
| 21 | 805 | -26 | 10 | 56 | 805 | -21 | 10 | 60 | 815 | -18 | 10 | 90 | 818 | -18 | 16 | 49 | 820 | -18 | 7 | 81 | 825 | -15 | 8 | 77 | 830 | -19 | 12 | 97 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | $14$ |  |
| 00 | 830 | -19 | 11 | 95 | 837 | -14 | 10 | 82 | 837 | -13 | 9 | 101 | 831 | -15 | 8 | 92 | 825 | -22 | 13 | 104 | 823 | -18 | 13 | 104 | 827 | -16 | 14 | 97 |
| 03 | 831 | -18 | 13 | 78 | 837 | -13 | 11 | 104 | 836 | -14 | 11 | 97 | 829 | -15 | 7 | 91 | 825 | -22 | 13 | 75 | 824 | -19 | 15 | 75 | 827 | -16 | 13 | 101 |
| 06 | 833 | -17 | 13 | 85 | 837 | -13 | 10 | 104 | 836 | -15 | 11 | 101 | 829 | -18 | 4 | 101 | 824 | -21 | 16 | 95 | 825 | -19 | 17 | 85 | 827 | -15 | 11 | 101 |
| 09 | 834 | -18 | 11 | 87 | 837 | -14 | 13 | 101 | 836 | -16 | 8 | 104 | 828 | -20 | 6 | 82 | 824 | -22 | 14 | 98 | 825 | -20 | 13 | 109 | 827 | -17 | 11 | 97 |
| 12 | 835 | -17 | 10 | 80 | 837 | -13 | 11 | 99 | 835 | -17 | 6 | 90 | 827 | -20 | 5 | 84 | 823 | -21 | 14 | 94 | 826 | -20 | 16 | 102 | 826 | -15 | 14 | 98 |
| 15 | 836 | -17 | 7 | 91 | 837 | -13 | 13 | 108 | 834 | -16 | 4 | 88 | 825 | -20 | 7 | 88 | 823 | -20 | 14 | 67 | 826 | -19 | 16 | 74 | 826 | -15 | 11 | 104 |
| 18 | 837 | -16 | 6 | 97 | 837 | -13 | 13 | 108 | 833 | -17 | 5 | 94 | 825 | -21 | 12 | 81 | 822 | -19 | 16 | 70 | 826 | -18 | 19 | 88 | 826 | -14 | 10 | 95 |
| 21 | 837 | -15 | 9 | 88 | 837 | -13 | 11 | 104 | 832 | -16 | 6 | 85 | 825 | -20 | 15 | 95 | 823 | -18 | 13 | 85 | 827 | -16 | 15 | 91 | 826 | -15 | 11 | 98 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 826 | -15 | 14 | 101 | 828 | -12 | 12 | 101 | 820 | -14 | 13 | 101 | 825 | -12 | 15 | 77 | 830 | -11 | 17 | 77 | 836 | -11 | 8 | 80 | 833 | -12 | 7 | 88 |
| 03 | 827 | -15 | 11 | 95 | 827 | -12 | 9 | 98 | 820 | -15 | 10 | 90 | 825 | -12 | 14 | 91 | 832 | -12 | 15 | 81 | 836 | -12 | 8 | 74 | 833 | -12 | 8 | 98 |
| 06 | 827 | -16 | 15 | 104 | 825 | -11 | 8 | 97 | 820 | -16 | 15 | 88 | 826 | -13 | 14 | 92 | 833 | -13 | 13 | 82 | 835 | -13 | 7 | 61 | 833 | -13 | 6 | 85 |
| 09 | 828 | -17 | 13 | 104 | 824 | -11 | 1 | 180 | 821 | -16 | 14 | 104 | 826 | -13 | 13 | 88 | 834 | -13 | 14 | 74 | 835 | -14 | 6 | 74 | 833 | -12 | 7 | 84 |
| 12 | 829 | -16 | 15 | 78 | 823 | -15 | 1 | 165 | 822 | -15 | 13 | 97 | 827 | -13 | 14 | 45 | 836 | -13 | 12 | 80 | 834 | -12 | 6 | 82 | 834 | -12 | 7 | 73 |
| 15 | 829 | -15 | 15 | 105 | 822 | -14 | 12 | 104 | 823 | -14 | 13 | 90 | 828 | -13 | 15 | 90 | 836 | -13 | 11 | 71 | 834 | -12 | 6 | 92 | 834 | -11 | 8 | 94 |
| 18 | 830 | -13 | 14 | 99 | 820 | -13 | 16 | 99 | 824 | -13 | 14 | 80 | 828 | -13 | 14 | 75 | 836 | -12 | 10 | 74 | 833 | -11 | 6 | 84 | 834 | -11 | 9 | 94 |
| 21 | 829 | -13 | 12 | 87 | 821 | -14 | 14 | 99 | 825 | -13 | 14 | 98 | 830 | -12 | 14 | 75 | 836 | -11 | 8 | 91 | 833 | -11 | 6 | 82 | 835 | -11 | 9 | 75 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 834 | -11 | 10 | 98 | 837 | -11 | 4 | 67 | 837 | -15 | 3 | 42 | 833 | -16 | 2 | 53 | 832 | -17 | 1 | 26 | 827 | -16 | 3 | 68 | 821 | -15 | 7 | 85 |
| 03 | 834 | -11 | 10 | 67 | 837 | -11 | 4 | 50 | 836 | -11 | 1 | 156 | 833 | -17 | 1 | 66 | 831 | -14 | 0 | 0 | 826 | -18 | 2 | 77 | 823 | -14 | 7 | 49 |
| 06 | 835 | -12 | 8 | 60 | 837 | -12 | 4 | 70 | 835 | -16 | 1 | 91 | 834 | -19 | 2 | 16 | 831 | -17 | 4 | 82 | 825 | -21 | 6 | 70 | 823 | -14 | 7 | 46 |
| 09 | 835 | -12 | 11 | 50 | 837 | -13 | 7 | 81 | 835 | -17 | 1 | 119 | 834 | -19 | 1 | 60 | 830 | -19 | 4 | 97 | 824 | -21 | 6 | 80 | 824 | -15 | 9 | 63 |
| 12 | 836 | -13 | 9 | 85 | 838 | -13 | 7 | 92 | 834 | -18 | 1 | 113 | 834 | -21 | 2 | 67 | 830 | -20 | 4 | 91 | 824 | -19 | 5 | 84 | 824 | -16 | 9 | 68 |
| 15 | 836 | -12 | 8 | 68 | 838 | -9 | 1 | 334 | 833 | -17 | 1 | 317 | 833 | -21 | 4 | 73 | 829 | -18 | 4 | 88 | 822 | -20 | 6 | 84 | 824 | -15 | 9 | 73 |
| 18 | 836 | -12 | 8 | 77 | 838 | -13 | 2 | 40 | 833 | -16 | 1 | 275 | 833 | -21 | 4 | 59 | 828 | -17 | 5 | 87 | 821 | -20 | 11 | 94 | 824 | -15 | 11 | 71 |
| 21 | 837 | -12 | 7 | 66 | 838 | -12 | 2 | 50 | 833 | -16 | 2 | 75 | 833 | -20 | 4 | 56 | 828 | -17 | 3 | 33 | 821 | -17 | 8 | 85 | 824 | -15 | 10 | 81 |
|  |  | DAY | 29 |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 825 | -14 | 10 | 85 | 831 | -15 | 9 | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 826 | -15 | 8 | 71 | 831 | -15 | 7 | 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 826 | -17 | 11 | 94 | 831 | -15 | 9 | 81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 827 | -17 | 12 | 99 | 831 | -16 | 10 | 99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 828 | -17 | 11 | 90 | 831 | -16 | 9 | 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 828 | -17 | 11 | 53 | 830 | -15 | 8 | 73 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 829 | -16 | 11 | 94 | 830 | -14 | 7 | 53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 830 | -15 | 10 | 97 | 829 | -14 | 8 | 61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-16.5$ STD DEV $=3.9$ MAX $=-9.4$ AT 1450 GMT ON DAY 23 MIN $=-28.1$ AT 610 GMT ON DAY 1
* THETA (K) * MEAN $=271.01$
* PRESSURE (MB) * MEAN $=826.3$ STD DEV $=8.9$ MAX $=838.2$ AT 1620 GMT ON DAY 23 MIN $=798.4$ AT 0 GMT ON DAY 1
* WINDS (M/S) * MEAN $=9.7$ STD DEV $=4.2$ RESULTANT $=9.2$ FROM 83 . CONSTANCY $=0.96$ MAX $=21.8$ FROM 90. AT 1820 GMT DAY 13
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 $2-4 \quad 4-6 \quad 6-818-1010-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW


DEC 97

| HR | PP |  | vV | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |  |  |  | DD |  |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | day | 6 |  |  | DAY |  |  |
| 00 | 829 | -13 | 7 | 73 | 828 | -12 | 6 | 68 | 832 | -12 | 6 | 75 | 834 | -10 | 7 | 354 | 836 | -10 | 2 | 9 | 827 | -11 | 6 | 94 | 829 | -7 | 2 | 262 |
| 03 | 828 | -13 | 5 | 70 | 828 | -12 | 6 | 70 | 832 | -13 | 7 | 52 | 835 | -11 | 5 | 25 | 835 | -11 | 3 | 57 | 826 | -10 | 6 | 94 | 830 | -10 | 5 | 326 |
| 06 | 827 | -15 | 7 | 80 | 829 | -14 | 7 | 92 | 831 | -13 | 12 | 87 | 837 | -12 | 3 | 25 | 834 | -11 | 4 | 78 | 827 | -8 | 4 | 68 | 830 | -11 | 4 | 63 |
| 09 | 827 | -15 | 7 | 59 | 830 | -16 | 7 | 95 | 831 | -14 | 10 | 78 | 837 | -12 | 5 | 70 | 833 | -16 | 5 | 90 | 827 | -9 | 5 | 49 | 830 | -13 | 3 | 91 |
| 12 | 826 | -16 | 7 | 91 | 831 | -16 | 9 | 66 | 831 | -12 | 10 | 77 | 837 | -11 | 4 | 88 | 831 | -14 | 8 | 94 | 827 | -10 | 5 | 84 | 829 | -10 | 4 | 92 |
| 15 | 826 | -15 | 7 | 42 | 831 | -15 | 8 | 81 | 831 | -10 | 11 | 87 | 837 | -9 | 2 | 1 | 830 | -12 | 7 | 109 | 827 | -8 | 4 | 91 | 828 | -8 | 2 | 111 |
| 18 | 826 | -13 | 5 | 63 | 832 | -13 | 7 | 77 | 831 | -9 | 9 | 50 | 837 | -9 | 3 | 46 | 828 | -12 | 7 | 104 | 828 | -7 | 4 | 115 | 829 | -8 | 1 | 232 |
| 21 | 827 | -13 | 5 | 64 | 832 | -12 | 8 | 73 | 831 | -8 | 7 | 66 | 836 | -9 | 5 | 360 | 828 | -11 | 6 | 97 | 828 | -5 | 0 | 0 | 830 | -12 | 2 | 329 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  |  | 11 |  |  | DAY |  |  |  | DAY |  |  |  | DAY |  |  |
| 00 | 831 | -14 | 3 | 230 | 826 | -17 | 4 | 82 | 823 | -15 | 7 | 88 | 825 | -9 | 8 | 87 | 825 | -6 | 5 | 67 | 819 | -6 | 3 | 9 | 817 | -9 | 4 | 68 |
| 03 | 831 | -12 | 1 | 316 | 826 | -19 | 5 | 90 | 822 | -15 | 7 | 92 | 825 | -10 | 6 | 98 | 825 | -7 | 6 | 52 | 818 | -6 | 3 | 30 | 818 | -12 | 5 | 85 |
| 06 | 831 | -17 | 2 | 35 | 825 | -21 | 5 | 97 | 822 | -17 | 8 | 73 | 825 | -9 | 5 | 101 | 824 | -7 | 6 | 54 | 818 | -8 | 2 | 19 | 819 | -11 | 5 | 70 |
| 09 | 830 | -20 | 2 | 94 | 825 | -20 | 5 | 98 | 823 | -17 | 7 | 84 | 826 | -7 | 4 | 45 | 823 | -9 | 5 | 92 | 817 | -9 | 3 | 42 | 820 | -10 | 4 | 81 |
| 12 | 829 | -23 | 4 | 88 | 824 | -20 | 6 | 74 | 823 | -17 | 8 | 88 | 826 | -8 | 4 | 82 | 823 | -9 | 6 | 77 | 817 | -9 | 3 | 45 | 821 | -10 | 4 | 78 |
| 15 | 828 | -20 | 4 | 85 | 824 | -18 | 7 | 91 | 823 | -16 | 8 | 85 | 826 | -8 | 6 | 63 | 822 | -7 | 4 | 59 | 816 | -7 | 3 | 49 | 822 | -9 | 3 | 60 |
| 18 | 828 | -18 | 4 | 94 | 823 | -17 | 6 | 81 | 824 | -13 | 8 | 99 | 826 | -7 | 5 | 85 | 821 | -6 | 3 | 53 | 816 | -8 | 3 | 59 | 823 | -7 | 1 | 45 |
| 21 | 827 | -17 | 4 | 84 | 823 | -15 | 7 | 81 | 824 | -11 | 8 | 84 | 826 | -7 | 5 | 104 | 820 | -6 | 4 | 23 | 817 | -8 | 3 | 68 | 823 | -7 | 3 | 326 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 823 | -9 | 3 | 338 | 823 | -12 | 8 | 98 | 821 | -16 | 7 | 70 | 822 | -16 | 7 | 92 | 817 | -16 | 6 | 102 | 820 | -13 | 2 | 90 | 830 | -14 | 3 | 98 |
| 03 | 824 |  | 0 | 0 | 823 | -13 | 8 | 87 | 821 | -17 | 6 | 78 | 822 | -17 | 8 | 101 | 816 | -16 | 7 | 95 | 821 | -17 | 3 | 81 | 830 | -16 | 5 | 81 |
| 06 | 823 | -8 | 1 | 18 | 823 | -13 | 7 | 99 | 821 | -19 | 5 | 78 | 822 | -17 | 7 | 102 | 816 | -18 | 4 | 82 | 823 | -18 | 5 | 91 | 830 | -15 | 7 | 99 |
| 09 | 824 | -8 | 3 | 331 | 823 | -14 | 6 | 91 | 821 | -18 | 6 | 95 | 822 | -17 | 6 | 82 | 816 | -20 | 6 | 92 | 824 | -19 | 6 | 87 | 830 | -16 | 8 | 81 |
| 12 | 824 | -9 | 1 | 8 | 823 | -16 | 9 | 108 | 821 | -19 | 5 | 90 | 822 | -17 | 6 | 91 | 816 | -20 | 4 | 90 | 826 | -18 | 6 | 90 | 830 | -15 | 8 | 92 |
| 15 | 823 | -7 | 1 | 15 | 822 | -16 | 9 | 94 | 821 | -18 | 6 | 91 | 821 | -17 | 6 | 90 | 817 | -18 | 3 | 94 | 827 | -17 | 6 | 87 | 828 | -14 | 9 | 91 |
| 18 | 823 | -9 | 3 | 16 | 822 | -16 | 9 | 56 | 821 | -17 | 6 | 82 | 819 | -16 | 5 | 104 | 817 | -15 | 2 | 60 | 829 | -16 | 4 | 87 | 828 | -13 | 9 | 75 |
| 21 | 824 | -9 | 3 | 40 | 821 | -17 | 8 | 73 | 822 | -16 | 7 | 92 | 818 | -16 | 6 | 94 | 819 | -14 | 2 | 46 | 830 | -13 | 2 | 59 | 827 | -11 | 10 | 85 |
|  |  |  | 22 |  |  |  | 23 |  |  |  | 24 |  |  |  | 25 |  |  |  | 26 |  |  |  | 27 |  |  | DAY |  |  |
| 00 | 827 | -11 | 13 | 92 | 832 | -7 | 6 | 87 | 827 | -9 | 11 | 88 | 834 | -9 | 2 | 95 | 826 | -12 | 10 | 90 | 827 | -3 | 4 | 12 | 832 | -6 | 7 | 77 |
| 03 | 828 | -11 | 12 | 95 | 832 | -8 | 7 | 99 | 828 | -9 | 9 | 85 | 833 | -10 | 2 | 91 | 825 | -12 | 7 | 68 | 827 | -4 | 5 | 56 | 831 | -8 | 6 | 97 |
| 06 | 829 | -11 | 10 | 82 | 832 | -8 | 7 | 88 | 829 | -10 | 10 | 115 | 832 | -11 | 4 | 82 | 824 | -11 | 8 | 94 | 828 | -4 | 3 | 26 | 830 | -9 | 8 | 78 |
| 09 | 831 | -11 | 8 | 99 | 832 | -8 | 7 | 88 | 831 | -11 | 9 | 91 | 831 | -14 | 5 | 90 | 824 | -11 | 8 | 84 | 829 | -5 | 7 | 30 | 830 | -11 | 8 | 94 |
| 12 | 831 | -11 | 6 | 88 | 832 | -9 | 9 | 78 | 832 | -11 | 6 | 85 | 830 | -15 | 6 | 84 | 824 | -9 | 7 | 85 | 830 | -6 | 7 | 35 | 829 | -10 | 7 | 81 |
| 15 | 832 | -9 | 7 | 88 | 830 | -10 | 8 | 73 | 833 | -10 | 6 | 104 | 829 | -14 | 7 | 91 | 824 | -8 | 7 | 82 | 831 | -6 | 9 | 36 | 827 | -9 | 8 | 80 |
| 18 | 832 | -8 | 7 | 85 | 829 | -9 | 12 | 94 | 833 | -10 | 6 | 105 | 828 | -14 | 6 | 81 | 825 | -4 | 3 | 4 | 832 | -5 | 5 | 74 | 826 | -8 | 6 | 75 |
| 21 | 832 | -6 | 4 | 85 | 827 | -10 | 14 | 88 | 834 | -9 | 4 | 94 | 827 | -13 | 8 | 82 | 826 | -3 | 3 | 32 | 833 | -4 | 7 | 67 | 826 | -6 | 2 | 29 |
|  |  |  | 29 |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 826 | -6 | 2 | 32 | 830 | -7 | 2 | 284 | 828 | -11 | 3 | 275 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 826 | -8 | 3 | 331 | 829 | -7 | 1 | 300 | 828 | -10 | 1 | 292 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 827 | -7 | 0 | 0 | 829 | -9 | 4 | 309 | 828 | -10 | 2 | 322 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 827 | -7 | 2 | 326 | 829 | -9 | 3 | 265 | 828 | -10 | 4 | 262 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 828 | -7 | 2 | 324 | 829 | -11 | 5 | 261 | 827 | -10 | 4 | 267 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 828 | -7 | 2 | 278 | 828 | -10 | 4 | 274 | 827 | -10 | 5 | 278 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 829 | -5 | 2 | 292 | 828 | -9 |  | 255 | 827 | -8 |  | 315 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 829 | -7 |  | 293 | 828 | -9 |  | 292 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-11.4$ STD DEV $=4.1$ MAX $=-1.2$ AT 2330 GMT ON DAY 26 MIN $=-23.2$ AT 1020 GMT ON DAY 8
* THETA (K) * MEAN $=276.39$
* PRESSURE (MB) * MEAN $=826.6$ STD DEV $=4.7$ MAX $=837.3$ AT 1210 GMT ON DAY 4 MIN $=815.4$ AT 630 GMT ON DAY 19
* $\operatorname{WINDS}(M / S) *$ MEAN $=5.4$ STD DEV $=2.6$ RESULTANT $=4.5$ FROM 78. CONSTANCY $=0.83$ MAX $=14.2$ FROM 88. AT 2100 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT:

WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW



PP TT VV DD

DAY 3

PP TT WV DD DAY 4

PP TT WV DD DAY 5

PP TT WV DD DAY 6

PP TT WV DD DAY 7

924

DAY 8
 03 06 09 12 15

920-15 4105
$\begin{array}{llll}919 & -15 & 3 & 97\end{array}$
919-12 $4 \quad 66$
DAY 15
$\begin{array}{llll}925 & -4 & 4 & 56\end{array}$
03
06
09


|  |  | DAY | 8 |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 926 | -12 | 6320 | 930 | -18 | 4 | 30 | 927 | -15 | 5 | 60 | 932 | -19 | 4 | 295 | 932 | -18 | 1 | 63 | 923 | -21 | 4 | 88 | 920 | -21 | 4 | 29 |
| 03 | 927 | -13 | 3317 | 929 | -16 | 6 | 35 | 927 | -16 | 3 | 77 | 933 | -19 | 3 | 289 | 930 | -18 | 2 | 74 | 922 | -22 | 3 | 78 | 920 | -22 | 4 | 47 |
| 06 | 929 | -15 | 5284 | 928 | -17 | 6 | 35 | 927 | -21 | 4 | 91 | 933 | -18 | 4 | 351 | 929 | -19 | 1 | 74 | 921 | -26 | 4 | 73 | 921 | -23 | 1 | 77 |
| 09 | 930 | -16 | 5310 | 928 | -16 | 6 | 46 | 928 | -25 | 4 | 67 | 934 | -19 | 4 | 354 | 927 | -21 | 3 | 74 | 920 | -28 | 4 | 67 | 922 | -25 | 4 | 45 |
| 12 | 931 | -19 | 2345 | 928 | -16 | 7 | 46 | 928 | -26 | 4 | 74 | 934 | -19 | 3 | 360 | 926 | -24 | 5 | 54 | 920 | -24 | 4 | 61 | 923 | -27 | 5 | 46 |
| 15 | 931 | -17 | 27 | 927 | -16 | 6 | 50 | 929 | -21 | 3 | 52 | 934 | -19 | 4 | 35 | 925 | -24 | 5 | 54 | 919 | -24 | 4 | 87 | 923 | -27 | 4 | 59 |
| 18 | 931 | -19 | $3 \quad 37$ | 927 | -16 | 7 | 64 | 930 | -20 | 2 | 9 | 934 | -18 | 2 | 23 | 924 | -22 | 5 | 57 | 918 | -25 | 6 | 63 | 923 | -25 | 5 | 60 |
| 21 | 930 | -19 | 311 | 927 | -15 | 6 | 67 | 931 | -19 | 2 | 355 | 933 | -17 | 2 | 49 | 923 | -21 | 4 | 50 | 919 | -24 | 4 | 53 | 924 | -24 | 4 | 71 |
|  |  | DAY | 15 |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 924 | -24 | 485 | 927 | -20 | 4 | 36 | 934 | -22 | 4 | 360 | 930 | -19 | 4 | 137 | 930 | -20 | 6 | 324 | 941 | -18 | 6 | 4 | 924 | -15 | 5 | 21 |
| 03 | 924 | -26 | 380 | 927 | -22 | 3 | 46 | 934 | -24 | 5 | 18 | 929 | -21 | 4 | 120 | 933 | -17 | 6 | 281 | 940 | -18 | 7 | 4 | 923 | -13 | 4 | 42 |
| 06 | 924 | -28 | 280 | 927 | -24 | 3 | 35 | 935 | -26 | 5 | 29 | 930 | -24 | 4 | 66 | 935 | -25 | 6 | 313 | 938 | -21 | 8 | 25 | 922 | -11 | 4 | 21 |
| 09 | 925 | -31 | 345 | 927 | -22 | 3 | 22 | 935 | -28 | 4 | 36 | 928 | -21 | 4 | 73 | 938 | -29 | 4 | 350 | 936 | -24 | 8 | 30 | 921 | -9 | 5 | 357 |
| 12 | 926 | -30 | 352 | 928 | -24 | 3 | 28 | 935 | -29 | 4 | 57 | 927 | -16 | 4 | 70 | 940 | -25 | 4 | 347 | 935 | -23 | 8 | 42 | 920 | -7 | 8 | 341 |
| 15 | 926 | -27 | 432 | 929 | -20 | 3 | 351 | 934 | -27 | 3 | 61 | 926 | -14 | 5 | 345 | 941 | -23 | 5 | 5 | 931 | -22 | 8 | 67 | 920 | -7 | 9 | 334 |
| 18 | 926 | -24 | 423 | 930 | -20 | 5 | 336 | 933 | -23 | 4 | 74 | 927 | -17 | 8 | 322 | 941 | -22 | 6 | 7 | 928 | -19 | 10 | 66 | 920 | -6 | 11 | 347 |
| 21 | 927 | -22 | $3 \quad 33$ | 932 | -21 | 4 | 337 | 931 | -23 | 4 | 108 | 928 | -16 | 5 | 330 | 941 | -18 | 6 | 350 | 925 | -17 | 8 | 52 | 920 | 7 | 11 | 352 |
|  |  | DAY | 22 |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 921 | -6 | 9337 |  |  |  |  | 924 | -9 | 0 | 0 | 931 | -20 | 5 | 303 | 942 | -19 | 4 | 25 | 937 | -21 | 5 | 33 | 916 | -21 | 4 | 30 |
| 03 | 921 | -7 | 5355 |  |  |  |  | 924 | -12 | 1 | 316 | 932 | -22 | 5 | 315 | 942 | -18 | 3 | 35 | 936 | -22 | 5 | 53 | 914 | -18 | 6 | 21 |
| 06 | 921 | -7 | 8347 | 924 | -9 | 2 | 33 | 924 | -14 | 2 | 295 | 934 | -22 | 6 | 310 | 942 | -24 | 4 | 52 | 934 | -23 | 5 | 53 | 912 | -18 | 6 | 28 |
| 09 | 921 | -8 | 9351 | 923 | -12 | 4 | 29 | 925 | -14 | 5 | 295 | 936 | -24 | 2 | 313 | 942 | -22 | 6 | 46 | 932 | -25 | 7 | 68 | 911 | -15 | 5 | 39 |
| 12 | 922 | -8 | 82 | 923 | -13 | 3 | 42 | 926 | -16 | 5 | 292 | 938 | -29 | 2 | 4 | 941 | -24 | 6 | 39 | 929 | -24 | 7 | 81 | 910 | -14 | 4 | 23 |
| 15 | 921 | -8 | 11360 | 923 | -13 | 2 | 56 | 927 | -17 | 5 | 298 | 939 | -26 | 3 | 18 | 940 | -24 | 5 | 54 | 924 | -21 | 9 | 88 | 909 | -12 | 2 | 71 |
| 18 | 921 | -7 | 9333 | 923 | -12 | 0 | 0 | 928 | -17 | 4 | 275 | 940 | -23 | 4 | 15 | 939 | -24 | 5 | 47 | 920 | -23 | 8 | 71 | 908 | -11 | 3 | 46 |
| 21 | 922 | -7 | 9334 | 924 | -11 | 0 | 0 | 930 | -20 | 6 | 295 | 941 | -20 | 3 | 36 | 938 | -22 | 5 | 37 | 918 | -22 | 5 | 39 | 908 | -11 | 5 | 66 |

## MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-18.0$ STD DEV $=6.5$ MAX $=-2.9$ AT 1030 GMT ON DAY 1 MIN $=-30.9$ AT 850 GMT ON DAY 15
* THETA (K) * MEAN $=260.61$
* PRESSURE (MB) * MEAN $=928.4$ STD DEV $=7.3$ MAX $=942.5$ AT 130 GMT ON DAY 26 MIN $=907.6$ AT 2050 GMT ON DAY 28 * $\operatorname{WINDS}(M / S) *$ MEAN $=4.6$ STD DEV $=2.0$ RESULTANT $=3.4$ FROM 23. CONSTANCY $=0.74$ MAX $=13.7$ FROM 336 . AT 2110 GMT DAY 22 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $18.7 \%$ PRESSURE: $18.7 \%$ WINDS: $18.7 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 16 & 15 & 23 & 18 & 4 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 2 & 5 & 6 & 8\end{array}$
$\begin{array}{llll}\text { HR } & \text { PP TT WV } \\ & \text { DAY } & 1\end{array}$
$\begin{array}{llll}00 & 908 & -14 & 6 \\ 60\end{array}$
$\begin{array}{llll}03 & 908 & -17 & 5\end{array} 59$
$\begin{array}{lllll}06 & 908 & -14 & 4 & 52\end{array}$
$\begin{array}{llll}06 & 910-12 \quad 4 \quad 22\end{array}$
$\begin{array}{llll}12 & 911 & -13 & 5\end{array} 25$
$\begin{array}{lllll}15 & 912 & -11 & 4 & 7\end{array}$
$\begin{array}{lllll}18 & 914 & -14 & 5 & 4\end{array}$
$\begin{array}{lll}21 & 917 & -14 \\ 5 & 358\end{array}$ DAY 8
$\begin{array}{llll}00 & 911 & -24 & 4\end{array}$
$\begin{array}{lllll}03 & 911 & -25 & 4 & 43\end{array}$
$\begin{array}{lllll}06 & 911 & -26 & 5 & 37\end{array}$
$\begin{array}{lllll}09 & 912 & -21 & 5 & 36\end{array}$
$\begin{array}{lllll}12 & 913 & -16 & 6 & 21\end{array}$
$\begin{array}{lllll}15 & 914 & -16 & 5 & 16\end{array}$
$\begin{array}{llll}18 & 915 & -16 & 5\end{array} 348$
$\begin{array}{llll}21 & 917-21 & 648\end{array}$ DAY 15
$\begin{array}{lllll}00 & 924 & -17 & 4 & 26\end{array}$
$\begin{array}{lllll}03 & 924 & -17 & 6 & 8\end{array}$
$\begin{array}{lllll}06 & 924 & -17 & 3 & 19\end{array}$
$\begin{array}{lllll}09 & 924 & -24 & 4 & 37\end{array}$
$\begin{array}{lllll}12 & 923 & -21 & 6 & 36\end{array}$
$\begin{array}{lllll}15 & 921 & -19 & 6 & 22\end{array}$
$\begin{array}{lllll}18 & 920 & -17 & 7 & 14\end{array}$
$\begin{array}{llll}21 & 919 & -17 & 5344\end{array}$
DAY 22
$\begin{array}{llll}00 & 927-14 & 4 & 29\end{array}$
$\begin{array}{llll}03 & 927 & -19 & 5\end{array} 43$
$\begin{array}{lllll}06 & 928 & -22 & 4 & 54\end{array}$
$\begin{array}{lllll}09 & 928 & -23 & 6 & 63\end{array}$
$\begin{array}{lllll}12 & 928 & -25 & 7 & 68\end{array}$
$\begin{array}{lllll}15 & 927 & -25 & 6 & 75\end{array}$
$\begin{array}{lllll}18 & 926 & -24 & 7 & 91\end{array}$
$\begin{array}{llll}21 & 926 & -26 & 6\end{array}$ DAY 29
$\begin{array}{lllll}00 & 892 & -11 & 7 & 15\end{array}$
$\begin{array}{lllll}03 & 894 & -14 & 8 & 352\end{array}$
$\begin{array}{lllll}06 & 898 & -24 & 5 & 348\end{array}$
$\begin{array}{lllll}09 & 900 & -25 & 9 & 1\end{array}$
$\begin{array}{lllll}12 & 904 & -26 & 4 & 341\end{array}$
$\begin{array}{lllll}15 & 905 & -24 & 4 & 351\end{array}$
$\begin{array}{lllll}18 & 906 & -28 & 3 & 45\end{array}$
$\begin{array}{lllll}21 & 906 & -23 & 9 & 37\end{array}$

| PP | TT | VV | DD | PP |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 919 | -15 | 5 | 334 | 923 | -15 | 3 | 60 |
| 921 | -16 | 4 | 326 | 922 | -20 | 3 | 71 |
| 923 | -19 | 3 | 360 | 921 | -23 | 3 | 66 |
| 924 | -23 | 3 | 21 | 921 | -24 | 4 | 70 |
| 925 | -21 | 2 | 22 | 920 | -25 | 5 | 64 |
| 925 | -22 | 2 | 66 | 919 | -24 | 5 | 68 |
| 924 | -24 | 2 | 57 | 918 | -23 | 4 | 59 |
| 924 | -21 | 4 | 61 | 917 | -22 | 5 | 66 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 918 | -24 | 5 | 9 | 925 | -29 | 2 | 352 |
| 919 | -22 | 5 | 1 | 923 | -32 | 3 | 64 |
| 920 | -22 | 3 | 322 | 921 | -34 | 3 | 78 |
| 921 | -21 | 3 | 23 | 920 | -28 | 3 | 74 |
| 922 | -22 | 7 | 357 | 916 | -28 | 5 | 73 |
| 923 | -28 | 7 | 358 | 912 | -29 | 7 | 77 |
| 924 | -27 | 4 | 355 | 908 | -29 | 5 | 84 |
| 924 | -27 | 4 | 7 | 907 | -30 | 6 | 102 |
|  | DAY | 16 |  |  | DAY | 17 |  |
| 919 | -19 | 3 | 329 | 909 | -26 | 5 | 144 |
| 918 | -20 | 0 | 0 | 909 | -29 | 4 | 146 |
| 918 | -21 | 2 | 184 | 911 | -29 | 2 | 158 |
| 917 | -21 | 3 | 136 | 913 | -29 | 2 | 295 |
| 915 | -22 | 7 | 126 | 915 | -33 | 5 | 293 |
| 913 | -26 | 3 | 119 | 918 | -36 | 4 | 306 |
| 912 | -26 | 5 | 125 | 919 | -37 | 6 | 307 |
| 910 | -27 | 5 | 133 | 922 | -37 | 5 | 291 |
|  | DAY | 23 |  |  | DAY | 24 |  |
| 926 | -26 | 7 | 80 | 925 | -32 | 4 | 59 |
| 926 | -28 | 4 | 75 | 925 | -34 | 3 | 54 |
| 925 | -30 | 5 | 74 | 926 | -36 | 4 | 49 |
| 925 | -31 | 4 | 67 | 927 | -37 | 4 | 46 |
| 925 | -33 | 4 | 67 | 928 | -37 | 5 | 43 |
| 925 | -33 | 4 | 60 | 929 | -36 | 4 | 30 |
| 925 | -33 | 4 | 46 | 930 | -36 | 4 | 28 |
| 925 | -32 | 4 | 52 | 932 | -35 | 3 | 29 |
|  | DAY | 30 |  |  | DAY | 31 |  |
| 907 | -22 | 8 | 46 | 917 | -27 | 5 | 8 |
| 909 | -21 | 5 | 22 | 918 | -35 | 5 | 47 |
| 910 | -29 | 6 | 47 | 917 | -35 | 6 | 71 |
| 908 | -27 | 9 | 56 | 915 | -34 | 8 | 81 |
| 905 | -23 | 12 | 70 | 910 | -29 | 10 | 84 |
| 903 | -13 | 10 | 45 | 904 | -25 | 12 | 75 |
| 908 | -24 | 9 | 360 | 900 | -20 | 8 | 61 |
| 913 | -26 | 6 | 347 | 898 | -17 | 7 | 39 |


| PP |  |  | DD | PP |  | VV | DD | PP |  |  | DD |  |  |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 916 | -22 | 5 | 67 | 913 | -22 | 5 | 8 | 910 | -30 | 3 | 336 | 912 | -27 | 1 | 94 |
| 914 | -23 | 4 | 71 | 914 | -24 | 3 | 39 | 910 | -32 | 3 | 348 | 912 | -27 | 2 | 98 |
| 912 | -26 | 5 | 68 | 914 | -29 | 3 | 66 | 910 | -31 | 4 | 348 | 911 | -26 | 2 |  |
| 911 | -28 | 2 | 105 | 912 | -27 | 5 | 82 | 911 | -31 | 2 | 22 | 911 | -26 | 3 | 2 |
| 910 | -27 | 3 | 97 | 912 | -27 | 5 | 67 | 912 | -28 | 4 | 358 | 911 | -26 | 3 | 11 |
| 910 | -26 | 1 | 32 | 911 | -27 | 4 | 73 | 912 | -28 | 2 | 4 | 911 | -27 | 1 | 42 |
| 911 | -27 | 6 | 7 | 910 | -26 | 2 | 37 | 912 | -27 | 2 | 19 | 911 | -26 | 2 | 16 |
| 912 | -24 | 7 | 360 | 910 | -29 | 4 | 360 | 912 | -27 | 2 | 67 | 911 | -25 | 5 | 22 |
|  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 906 | -30 | 5 | 108 | 893 | -24 | 6 | 126 | 894 | -9 | 6 | 33 | 912 | -15 | 5 | 4 |
| 905 | -31 | 4 | 95 | 892 | -23 | 3 | 108 | 896 | -12 | 5 | 29 | 915 | -16 | 5 | 12 |
| 905 | -32 | 6 | 71 | 892 | -27 | 3 | 104 | 898 | -12 | 6 | 14 | 917 | -16 | 4 | 360 |
| 904 | -33 | 6 | 88 | 892 | -22 | 4 | 33 | 900 | -12 | 6 | 28 | 919 | -18 | 3 | 340 |
| 903 | -34 | 6 | 81 | 893 | -17 | 4 | 26 | 902 | -9 | 6 | 22 | 921 | -19 |  | 326 |
| 901 | -31 | 5 | 87 | 893 | -15 | 4 | 23 | 904 | -11 | 5 | 358 | 923 | -20 | 0 | 0 |
| 899 | -21 | 6 | 125 | 893 | -13 | 4 | 18 | 906 | -13 | 8 | 12 | 924 | -22 | 1 | 91 |
| 895 | -23 | 7 | 130 | 894 | -9 | 5 | 36 | 909 | -14 | 5 | 5 | 924 | -18 | 2 | 22 |
|  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 924 | -36 | 4 | 306 | 926 | -30 | 2 | 80 | 922 | -30 | 5 | 52 | 919 | -17 | 7 | 28 |
| 925 | -34 | 4 | 310 | 925 | -32 | 3 | 98 | 921 | -29 | 6 | 47 | 920 | -18 | 5 | 29 |
| 926 | -33 | 4 | 305 | 925 | -32 | 3 | 81 | 920 | -27 | 6 | 60 | 921 | -18 | 6 | 19 |
| 927 | -33 | 3 | 337 | 924 | -29 | 3 | 85 | 919 | -26 | 7 | 64 | 922 | -18 | 5 | 23 |
| 926 | -35 | 3 | 351 | 924 | -35 | 5 | 77 | 918 | -25 | 7 | 59 | 923 | -17 | 6 | 35 |
| 926 | -35 | 2 | 360 | 922 | -35 | 8 | 81 | 917 | -20 | 7 | 53 | 924 | -18 | 6 | 26 |
| 926 | -35 | 3 | 12 | 922 | -35 | 7 | 45 | 917 | -19 | 9 | 50 | 925 | -17 | 6 | 32 |
| 926 | -31 | 1 | 18 | 922 | -31 | 6. | 30 | 918 | -17 | 6 | 33 | 926 | -14 | 6 | 42 |
|  | DAY | 25 |  |  |  | 26 |  |  |  | 27 |  |  |  | 28 |  |
| 933 | -35 | 3 | 21 | 932 | -22 | 6 | 19 | 919 | -32 | 3 | 57 | 905 | -26 | 7 | 106 |
| 934 | -37 | 3 | 29 | 929 | -22 | 6 | 18 | 918 | -34 | 4 | 84 | 900 | -23 | 7 | 94 |
| 936 | -37 | 4 | 26 | 926 | -23 |  | 357 | 917 | -34 | 5 | 84 | 896 | -23 | 6 | 113 |
| 936 | -36 | 3 | 19 | 925 | -27 |  | 357 | 917 | -36 | 4 | 81 | 892 | -18 | 6 | 70 |
| 937 | -32 | 4 | 30 | 923 | -31 | 3 | 21 | 917 | -35 | 4 | 63 | 891 | -14 | 4 | 33 |
| 937 | -29 | 4 | 11 | 923 | -32 | 2 | 57 | 916 | -36 | 4 | 74 | 890 | -14 | 5 | 47 |
| 936 | -26 | 4 | 32 | 922 | -34 | 3 | 50 | 913 | -33 | 6 | 77 | 890 | -11 | 6 | 26 |
| 934 | -23 | 6 | 26 | 920 | -34 | 3 | 61 | 910 | -33 | 7 | 80 | 890 | -11 | 6 | 23 |

* temperature ( $C$ ) * mean $=-24.8$ Std dev $=7.1$ MAX $=-8.2$ at 2130 GMT ON DAY 12 MIN $=-37.4$ AT 1650 GMT ON dAY 17
* THETA (K) * MEAN $=254.79$
* PRESSURE (MB) * MEAN $=915.4$ STD DEV $=10.4$ MAX $=937.2$ at 1300 GMT ON DAY 25 MIN $=889.7$ at 1630 GMt ON dAY 28
* WINDS (M/S) * MEAN $=4.7 \mathrm{STD}$ DEV $=1.9$ RESULTANT $=3.6 \mathrm{FROM} 42$. CONSTANCY $=0.77 \mathrm{MAX}=13.5 \mathrm{FROM} 68$. AT 1430 GMT DAY 31
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: WIND DIRECTION: $\quad$ N $\quad$ NNE $\quad$ NE ENE $\quad$ E PERCENT

$$
\begin{array}{llllllllllllllll}
14 & 23 & 15 & 20 & 10 & 3 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 3 & 5
\end{array}
$$

| HR | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { VV } \\ 1 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD | PP | $\begin{array}{r} \text { TT } \\ \text { DAY } \end{array}$ | $\begin{array}{r} \text { VV } \\ 3 \end{array}$ | DD | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 4 \end{array}$ | DD | PP |  | $\begin{array}{r} \text { VV } \\ 5 \end{array}$ | DD |  |  | $\begin{array}{r} \text { VV } \\ 6 \end{array}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { VV } \\ 7 \end{array}$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 899 | -15 | 8 | 2 | 914 | -28 | 5 | 60 | 917 | -30 | 5 | 47 | 918 | -28 | 7 | 84 | 911 | -20 | 10 | 75 | 919 | -19 | 10 | 56 | 908 | -18 | 11 | 36 |
| 03 | 903 | -22 | 9 | 334 | 914 | -27 | 6 | 68 | 918 | -29 | 5 | 66 | 919 | -35 | 2 | 19 | 908 | -13 | 12 | 77 | 918 | -20 | 9 | 53 | 910 | -17 | 8 | 35 |
| 06 | 906 | -30 | 6 | 15 | 913 | -29 | 5 | 56 | 918 | -27 | 7 | 66 | 920 | -35 | 7 | 47 | 904 | -13 | 16 | 73 | 918 | -20 | 9 | 52 | 911 | -16 | 10 | 52 |
| 09 | 905 | -22 | 9 | 71 | 913 | -31 | 5 | 49 | 919 | -23 | 9 | 56 | 920 | -37 | 3 | 84 | 912 | -22 | 14 | 29 | 916 | -20 | 11 | 59 | 913 | -16 | 6 | 26 |
| 12 | 908 | -25 | 5 | 16 | 914 | -31 | 7 | 37 | 919 | -26 | 8 | 61 | 919 | -29 | 7 | 71 | 916 | -13 | 14 | 45 | 913 | -16 | 12 | 68 | 916 | -20 | 9 | 360 |
| 15 | 910 | -32 | 5 | 35 | 915 | -30 | 6 | 47 | 919 | -26 | 11 | 68 | 918 | -28 | 4 | 106 | 918 | -16 | 11 | 54 | 910 | -18 | 13 | 78 | 916 | -24 | 8 | 30 |
| 18 | 912 | -31 | 6 | 54 | 915 | -31 | 5 | 53 | 919 | -27 | 12 | 63 | 915 | -24 | 6 | 85 | 919 | -17 | 11 | 52 | 908 | -17 | 11 | 59 | 918 | -28 | 6 | 49 |
| 21 | 914 | -27 | 5 | 71 | 916 | -29 | 6 | 52 | 918 | -27 | 11 | 74 | 913 | -22 | 7 | 81 | 919 | -17 | 13 | 52 | 907 | -17 | 12 | 45 | 918 | -29 | 9 | 54 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | day | 14 |  |
| 00 | 921 | -30 | 5 | 28 | 928 | -39 | 6 | 57 | 919 | -34 | 4 | 56 | 909 | -35 | 8 | 61 | 910 | -42 | 5 | 7 | 914 | -42 | 5 | 32 | 911 | -34 | 4 | 360 |
| 03 | 922 | -29 | 9 | 15 | 926 | -39 | 6 | 53 | 918 | -33 | 4 | 33 | 907 | -36 | 6 | 59 | 910 | -42 | 6 | 18 | 914 | -41 | 6 | 43 | 911 | -36 | 4 | 30 |
| 06 | 924 | -29 | 9 | 354 | 925 | -38 | 6 | 53 | 917 | -32 | 4 | 60 | 906 | -36 | 8 | 54 | 911 | -42 | 6 | 33 | 914 | -40 | 4 | 46 | 911 | -39 | 4 | 67 |
| 09 | 926 | -31 | 7 | 4 | 923 | -40 | 6 | 60 | 916 | -34 | 6 | 57 | 905 | -38 | 6 | 61 | 912 | -41 | 5 | 49 | 913 | -32 | 4 | 61 | 911 | -43 | 5 | 66 |
| 12 | 927 | -32 | 7 | 15 | 922 | -41 | 5 | 61 | 915 | -33 | 6 | 74 | 905 | -38 | 6 | 66 | 912 | -43 | 4 | 61 | 912 | -30 | 5 | 56 | 910 | -44 | 5 | 66 |
| 15 | 928 | -32 | 7 | 43 | 921 | -40 | 5 | 56 | 913 | -33 | 4 | 71 | 906 | -40 | 3 | 52 | 913 | -44 | 4 | 47 | 911 | -32 | 0 | 0 | 910 | -43 | 7 | 64 |
| 18 | 928 | -35 | 6 | 45 | 920 | -40 | 5 | 49 | 912 | -34 | 5 | 73 | 907 | -41 | 4 | 36 | 913 | -43 | 4 | 39 | 910 | -39 | 3 | 21 | 910 | -42 | 7 | 66 |
| 21 | 928 | -37 | 6 | 49 | 919 | -36 | 4 | 57 | 910 | -35 | 7 | 54 | 909 | -41 | 5 | 360 | 914 | -42 | 5 | 21 | 910 | -35 | 4 | 350 | 911 | -41 | 7 | 70 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 912 | -39 | 9 | 71 | 919 | -35 | 7 | 70 | 923 | -44 | 4 | 26 | 938 | -44 | 4 | 43 | 938 | -41 | 7 | 105 | 939 | -44 | 5 | 82 | 931 | -39 | 8 | 82 |
| 03 | 912 | -36 | 12 | 66 | 919 | -38 | 7 | 66 | 924 | -45 | 5 | 19 | 938 | -45 | 4 | 40 | 938 | -40 | 6 | 90 | 938 | -43 | 6 | 84 | 930 | -39 | 7 | 77 |
| 06 | 912 | -33 | 14 | 75 | 919 | -36 | 8 | 52 | 925 | -45 | 3 | 5 | 939 | -45 | 4 | 54 | 939 | -41 | 3 | 60 | 937 | -41 | 7 | 82 | 930 | -39 | 7 | 60 |
| 09 | 912 | -33 | 15 | 73 | 920 | -38 | 5 | 52 | 926 | -43 | 4 | 350 | 939 | -45 | 4 | 71 | 939 | -40 | 5 | 77 | 936 | -40 | 8 | 68 | 930 | -41 | 6 | 66 |
| 12 | 913 | -35 | 12 | 73 | 920 | -40 | 6 | 50 | 929 | -43 | 4 | 8 | 939 | -44 | 4 | 61 | 940 | -43 | 5 | 56 | 935 | -40 | 7 | 63 | 930 | -41 | 5 | 39 |
| 15 | 914 | -32 | 9 | 52 | 921 | -42 | 4 | 45 | 931 | -44 | 6 | 25 | 939 | -41 | 2 | 94 | 940 | -44 | 4 | 67 | 933 | -39 | 8 | 70 | 931 | -40 | 4 | 35 |
| 18 | 917 | -30 | 7 | 46 | 921 | -42 | 4 | 50 | 934 | -45 | 5 | 46 | 938 | -38 | 6 | 111 | 940 | -44 | 5 | 53 | 932 | -38 | 7 | 71 | 931 | -41 | 5 | 21 |
| 21 | 919 | -33 | 7 | 68 | 922 | -44 | 4 | 45 | 936 | -44 | 4 | 37 | 938 | -39 | 7 | 126 | 940 | -43 | 5 | 87 | 931 | -39 | 8 | 81 | 932 | -41 | 4 | 15 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 932 | -41 | 6 | 29 | 933 | -44 | 8 | 360 | 914 | -23 | 8 | 54 | 931 | -37 | 6 | 45 | 917 | -21 | 15 | 343 | 913 | -23 |  |  | 923 | -35 | 7 | 21 |
| 03 | 932 | -40 | 6 | 32 | 933 | -41 | 7 | 8 | 913 | -19 | 6 | 32 | 927 | -33 | 7 | 53 | 921 | -23 | 11 | 351 | 910 | -24 |  |  | 923 | -40 |  |  |
| 06 | 932 | -39 | 5 | 30 | 932 | -36 | 6 | 36 | 913 | -17 | 6 | 357 | 922 | -26 | 10 | 61 | 923 | -25 | 4 | 21 | 908 | -25 |  |  | 921 | -41 |  |  |
| 09 | 931 | -38 | 7 | 28 | 929 | -34 | 8 | 43 | 916 | -26 | 10 | 303 | 917 | -22 | 10 | 64 | 921 | -24 |  |  | 906 | -28 |  |  | 918 | -44 |  |  |
| 12 | 931 | -34 | 10 | 23 | 927 | -35 | 7 | 40 | 923 | -31 | 9 | 324 | 914 | -20 | 7 | 39 | 918 | -22 |  |  | 907 | -27 |  |  | 914 | -45 |  |  |
| 15 | 931 | -35 | 7 | 15 | 923 | -33 | 7 | 39 | 927 | -36 | 12 | 354 | 912 | -15 | 7 | 15 | 915 | -23 |  |  | 908 | -23 | 10 | 336 | 912 | -47 |  |  |
| 18 | 931 | -37 | 8 | 360 | 920 | -30 | 8 | 43 | 931 | -33 | 7 | 360 | 911 | -12 | 12 | 360 | 915 | -23 |  |  | 914 | -29 | 14 | 322 | 910 | -48 |  |  |
| 21 | 931 | -39 | 9 | 2 | 917 | -27 | 7 | 68 | 932 | -36 | 4 | 28 | 912 | -16 | 13 | 341 | 914 | -23 |  |  | 919 | -32 | 13 | 330 | 911 | -46 |  |  |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 912 | -48 |  |  | 906 | -44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 913 | -48 |  |  | 907 | -39 | 8 | 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 914 | -46 |  |  | 909 | -37 | 8 | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 913 | -47 |  |  | 911 | -35 | 3 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 911 | -47 |  |  | 912 | -33 | 4 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 908 | -46 |  |  | 913 | -33 | 5 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 906 | -46 |  |  | 916 | -35 | 8 | 345 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 905 | -47 |  |  | 919 | -39 | 9 | 350 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-33.6$ STD DEV $=8.9$ MAX $=-11.5$ AT 1840 GMT ON DAY 25 MIN $=-48.6$ AT 1750 GMT ON DAY 28
* THETA (K) * MEAN $=245.39$
* PRESSURE (MB) * MEAN $=919.1$ STD DEV $=9.5$ MAX $=940.2$ AT 1710 GMT ON DAY 19 MIN $=899.4$ AT 0 GMT ON DAY 1 * $\operatorname{WINDS}(M / S) *$ MEAN $=6.9 \mathrm{STD}$ DEV $=2.8$ RESULTANT $=5.9$ FROM 44. CONSTANCY $=0.86$ MAX $=19.6$ FROM 35 . AT 740 GMT DAY 5 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $10.8 \%$ $\begin{array}{lrrrrrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 60+ \\ \text { PERCENT: } & 0 & 12 & 33 & 29 & 11 & 8 & 5 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 11 & 16 & 32 & 29 & 6 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 3\end{array}$

| HR | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  | VV | DD | PP |  | VV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 923 | -38 | 11 | 360 | 906 | -24 | 8 | 67 | 908 | -28 | 8 | 63 | 891 | -15 | 7 | 37 | 902 | -28 |  |  | 907 | -39 | 9 | 61 | 897 | -44 | 8 | 68 |
| 03 | 925 | -36 | 9 | 8 | 904 | -20 | 8 | 35 | 905 | -32 | 8 | 73 | 893 | -15 | 11 | 358 | 905 | -31 |  |  | 907 | -41 | 5 | 57 | 898 | -43 | 10 | 60 |
| 06 | 926 | -34 | 7 | 23 | 903 | -14 | 7 | 11 | 903 | -28 | 10 | 71 | 899 | -23 | 12 | 11 | 906 | -36 |  |  | 907 | -41 | 8 | 56 | 899 | -43 | 9 | 60 |
| 09 | 926 | -35 | 7 | 35 | 904 | -16 | 8 | 33 | 900 | -27 | 9 | 54 | 902 | -24 | 5 | 21 | 907 | -36 |  |  | 906 | -43 | 7 | 71 | 900 | -42 | 11 | 67 |
| 12 | 924 | -39 | 7 | 67 | 907 | -22 | 9 | 351 | 900 | -24 | 10 | 39 | 902 | -25 |  |  | 907 | -37 |  |  | 904 | -44 | 8 | 68 | 902 | -41 | 5 | 70 |
| 15 | 919 | -37 | 7 | 71 | 908 | -25 | 7 | 4 | 899 | -20 | 9 | 56 | 900 | -26 |  |  | 908 | -38 |  |  | 902 | -44 | 8 | 70 | 902 | -35 | 13 | 101 |
| 18 | 914 | -32 | 11 | 77 | 909 | -27 | 5 | 68 | 896 | -18 | 6 | 75 | 899 | -26 |  |  | 907 | -39 |  |  | 900 | -45 | 9 | 75 | 903 | -40 | 14 | 64 |
| 21 | 910 | -27 | 12 | 75 | 909 | -28 | 8 | 68 | 892 | -18 | 10 | 64 | 899 | -26 |  |  | 908 | -40 | 9 | 68 | 898 | -44 | 9 | 75 | 906 | -39 | 9 | 87 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 906 | -38 | 10 | 82 | 907 | -48 | 7 | 54 | 902 | -51 | 5 | 73 | 904 | -48 | 5 | 28 | 913 | -48 | 7 | 36 | 917 | -50 | 6 | 53 | 917 | -49 | 6 | 43 |
| 03 | 907 | -40 | 9 | 91 | 907 | -48 | 7 | 63 | 901 | -51 | 5 | 43 | 904 | -47 | 8 | 52 | 914 | -48 | 8 | 33 | 916 | -50 | 6 | 53 | 918 | -49 | 6 | 50 |
| 06 | 907 | -42 | 8 | 88 | 905 | -49 | 7 | 74 | 902 | -51 | 5 | 45 | 905 | -47 | 7 | 36 | 914 | -48 | 8 | 33 | 916 | -51 | 6 | 56 | 919 | -48 | 6 | 46 |
| 09 | 907 | -44 | 7 | 94 | 904 | -49 | 7 | 66 | 902 | -51 | 7 | 75 | 907 | -46 | 6 | 49 | 915 | -47 | 7 | 35 | 915 | -51 | 6 | 54 | 921 | -48 | 6 | 54 |
| 12 | 907 | -45 | 6 | 40 | 903 | -48 | 6 | 64 | 902 | -50 | 7 | 59 | 909 | -47 | 6 | 45 | 916 | -48 | 7 | 49 | 915 | -51 | 5 | 53 | 922 | -47 | 6 | 57 |
| 15 | 907 | -47 | 7 | 56 | 902 | -49 | 5 | 71 | 902 | -50 | 8 | 53 | 909 | -47 | 7 | 43 | 916 | -49 | 7 | 54 | 916 | -50 | 4 | 50 | 923 | -47 | 6 | 63 |
| 18 | 907 | -47 | 8 | 59 | 903 | -49 | 5 | 57 | 902 | -49 | 8 | 52 | 910 | -47 | 7 | 35 | 916 | -50 | 7 | 59 | 916 | -50 | 5 | 53 | 924 | -46 | 7 | 67 |
| 21 | 907 | -48 | 9 | 54 | 902 | -50 | 6 | 78 | 903 | -50 | 7 | 57 | 911 | -48 | 7 | 22 | 916 | -50 | 6 | 60 | 916 | -50 | 6 | 46 | 925 | -45 | 7 | 64 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 924 | -43 | 7 | 67 | 919 | -18 | 7 | 11 | 928 | -23 | 8 | 32 | 912 | -16 | 7 | 54 | 909 | -16 | 6 | 21 | 911 | -25 |  |  | 921 | -29 | 5 | 5 |
| 03 | 922 | -39 | 10 | 77 | 917 | -17 | 12 | 66 | 929 | -25 | 6 | 68 | 909 | -14 | 9 | 46 | 910 | -22 | 6 | 25 | 912 | -25 |  |  | 921 | -29 | 5 | 19 |
| 06 | 919 | -37 | 11 | 78 | 914 | -16 | 13 | 74 | 926 | -22 | 7 | 88 | 908 | -15 | 11 | 35 | 911 | -22 | 4 | 348 | 914 | -26 |  |  | 920 | -28 | 7 | 25 |
| 09 | 915 | -32 | 13 | 77 | 910 | -13 | 10 | 57 | 924 | -22 | 11 | 75 | 907 | -16 | 6 | 60 | 911 | -23 |  |  | 915 | -26 |  |  | 919 | -29 | 7 | 35 |
| 12 | 910 | -24 | 15 | 75 | 912 | -10 | 11 | 360 | 922 | -22 | 8 | 71 | 905 | $-17$ | 6 | 32 | 910 | -28 |  |  | 917 | -27 |  |  | 918 | -31 | 5 | 50 |
| 15 | 909 | -20 | 9 | 61 | 916 | -16 | 9 | 9 | 920 | -21 | 10 | 66 | 904 | -18 | 5 | 1 | 910 | -32 |  |  | 919 | -27 | 8 | 355 | 916 | -33 | 8 | 52 |
| 18 | 912 | -14 | 7 | 11 | 921 | -15 | 7 | 4 | 917 | -18 | 10 | 71 | 905 | -16 | 7 | 351 | 910 | -26 |  |  | 920 | -28 | 7 | 354 | 915 | -35 | 5 | 46 |
| 21 | 917 | -12 | 8 | 11 | 925 | -20 | 6 | 26 | 914 | -17 | 8 | 49 | 907 | -16 | 5 | 11 | 910 | -25 |  |  | 920 | -30 | 7 | 7 | 914 | -36 | 5 | 53 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 912 | -39 | 5 | 61 | 890 | -31 | 8 | 81 | 910 | -31 | 7 | 63 | 915 | -32 | 4 | 91 | 900 | -16 | 6 | 63 | 917 | -24 |  |  | 907 | -15 | 7 | 90 |
| 03 | 911 | -40 | 7 | 64 | 887 | -31 | 3 | 111 | 908 | -27 | 7 | 50 | 914 | -32 | 4 | 97 | 902 | -17 | 10 | 15 | 918 | -26 |  |  | 906 | -18 | 9 | 46 |
| 06 | 909 | -40 | 6 | 87 | 889 | -40 | 11 | 354 | 908 | $-27$ | 6 | 39 | 912 | -31 | 7 | 78 | 908 | -20 | 11 | 5 | 920 | -27 |  |  | 904 | -13 | 9 | 61 |
| 09 | 908 | -32 | 6 | 67 | 895 | -38 | 9 | 9 | 910 | -29 | 6 | 22 | 910 | -32 | 2 | 112 | 915 | -26 | 13 | 7 | 923 | -28 |  |  | 902 | -13 | 14 | 46 |
| 12 | 905 | -38 | 4 | 104 | 900 | -36 | 8 | 18 | 913 | -32 | 8 | 5 | 906 | -30 | 4 | 109 | 919 | -26 |  |  | 923 | -28 |  |  | 901 | -14 | 14 | 50 |
| 15 | 901 | -43 | 4 | 98 | 905 | -35 | 8 | 15 | 915 | -30 | 4 | 5 | 905 | -27 | 6 | 88 | 920 | -28 |  |  | 921 | -23 |  |  | 900 | -17 | 8 | 73 |
| 18 | 898 | -41 | 7 | 88 | 909 | $-31$ | 7 | 46 | 915 | -27 | 4 | 71 | 903 | -17 | 9 | 35 | 919 | -25 |  |  | 918 | -17 |  |  | 897 | -18 | 8 | 66 |
| 21 | 894 | -36 | 8 | 64 | 910 | -31 | 8 | 59 | 914 | -28 | 5 | 102 | 902 | -15 | 6 | 43 | 918 | -24 |  |  | 912 | -16 | 8 | 81 | 896 | -19 | 7 | 32 |
|  |  | DAY | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 894 | -21 | 6 | 47 | 906 | -24 |  |  | 915 | -24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 892 | -23 | 6 | 22 | 908 | -32 |  |  | 916 | -22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 893 | -25 |  |  | 910 | -30 |  |  | 918 | -22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 894 | -26 |  |  | 912 | -34 |  |  | 920 | -23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 898 | -28 |  |  | 913 | -33 |  |  | 922 | -24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 900 | -27 |  |  | 913 | -33 |  |  | 924 | -28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 902 | -26 |  |  | 914 | -30 |  |  | 925 | -27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 905 | -23 |  |  | 915 | -29 |  |  | 925 | -29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-32.0$ STD DEV $=11.4$ MAX $=-8.1$ AT 1030 GMT ON DAY 16 MIN $=-51.4$ AT 530 GMT ON DAY 10
* THETA (K) * MEAN $=247.82$
* PRESSURE (MB) * MEAN $=909.7$ STD DEV $=8.5$ MAX $=929.1$ AT 210 GMT ON DAY 17 MIN $=886.9$ AT 410 GMT ON DAY 23
* WINDS (M/S) * MEAN $=7.5$ STD DEV $=2.3$ RESULTANT $=6.7$ FROM 51. CONSTANCY $=0.90$ MAX $=18.0$ FROM 40 . AT 1040 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $21.8 \%$
 PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

JUN 97

| HR | PP | TT | vV | DD | PP | TT | VV DD | PP |  |  | DD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  | DAY | 3 |  |  | DAY | 4 |
| 00 | 925 | -30 |  |  | 918 | -36 |  | 924 | -37 |  |  | 925 | -30 |  |
| 03 | 924 | -31 |  |  | 919 | -36 |  | 926 | -36 |  |  | 924 | -29 |  |
| 06 | 923 | -30 |  |  | 920 | -37 |  | 927 | -35 |  |  | 922 | -31 |  |
| 09 | 921 | -30 |  |  | 920 | -36 |  | 928 | -34 |  |  | 921 | -31 |  |
| 12 | 919 | -30 |  |  | 920 | -37 |  | 928 | -35 |  |  | 919 | -32 |  |
| 15 | 918 | -30 |  |  | 921 | -36 |  | 928 | -35 |  |  | 917 | -32 |  |
| 18 | 917 | -35 |  |  | 921 | -37 |  | 927 | -35 |  |  | 917 | -33 |  |
| 21 | 917 | -36 |  |  | 923 | -37 |  | 926 | -34 |  |  | 917 | -34 |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  | DAY | 10 |  |  | DAY | 11 |
| 00 | 918 | -20 |  |  | 898 | -16 |  | 914 | -23 |  |  | 919 | -17 |  |
| 03 | 921 | -21 |  |  | 895 | -10 |  | 914 | -26 |  |  | 919 | -18 |  |
| 06 | 924 | -23 |  |  | 895 | -13 |  | 915 | -25 |  |  | 918 | -16 |  |
| 09 | 925 | -23 |  |  | 896 | -17 |  | 915 | -21 |  |  | 916 | -16 |  |
| 12 | 925 | -26 |  |  | 898 | -18 |  | 916 | -20 |  |  | 915 | -13 |  |
| 15 | 920 | -24 |  |  | 902 | -17 |  | 916 | -15 |  |  | 914 | -14 |  |
| 18 | 914 | -25 |  |  | 908 | -22 |  | 917 | -15 |  |  | 915 | -13 |  |
| 21 | 906 | -21 |  |  | 912 | -22 |  | 918 | -16 |  |  | 916 | -13 |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  | DAY | 17 |  |  | DAY | 18 |
| 00 | 923 | -21 | 14 | 360 | 930 | -24 | 8338 | 910 | -19 |  |  | 924 | -23 |  |
| 03 | 928 | -20 | 8 | 347 | 929 | -25 | 11337 | 911 | -19 |  |  | 924 | -24 |  |
| 06 | 930 | -21 | 9 | 360 | 929 | -28 |  | 912 | -18 |  |  | 925 | -22 |  |
| 09 | 932 | -22 | 9 | 2 | 927 | -26 |  | 914 | -22 |  |  | 927 | -19 |  |
| 12 | 931 | -23 | 13 | 360 | 923 | -30 |  | 917 | -24 |  |  | 928 | -19 |  |
| 15 | 932 | -22 | 9 | 7 |  |  |  | 920 | -24 |  |  | 929 | -23 |  |
| 18 | 932 | -23 | 7 | 14 | 913 | -26 |  | 923 | -22 |  |  | 929 | -24 |  |
| 21 | 930 | -23 | 12 | 1 | 911 | -22 |  | 924 | -21 |  |  | 929 | -24 |  |
|  |  | DAY | 22 |  |  | DAY | 23 |  | DAY | 24 |  |  | DAY | 25 |
| 00 | 942 | -22 |  |  | 931 | -31 |  | 926 | -38 |  |  | 933 | -40 |  |
| 03 | 942 | -25 |  |  | 928 | -31 |  | 928 | -37 |  |  | 933 | -41 |  |
| 06 | 942 | -26 |  |  | 926 | -31 |  | 929 | -37 |  |  | 935 | -41 |  |
| 09 | 942 | -27 |  |  | 924 | -32 |  | 931 | -37 |  |  | 935 | -43 |  |
| 12 | 940 | -28 |  |  | 923 | -34 |  | 932 | -37 |  |  | 936 | -42 |  |
| 15 | 938 | -28 |  |  | 923 | -36 |  | 932 | -36 |  |  | 936 | -40 |  |
| 18 | 936 | -29 |  |  | 923 | -36 |  | 932 | -37 |  |  | 935 | -38 |  |
| 21 | 933 | -30 |  |  | 924 | -37 |  | 933 | -38 |  |  | 935 | -36 |  |
|  |  | DAY | 29 |  |  | DAY |  |  |  |  |  |  |  |  |
| 00 | 935 | -44 |  |  | 926 | -39 |  |  |  |  |  |  |  |  |
| 03 | 933 | -42 |  |  | 925 | -40 |  |  |  |  |  |  |  |  |
| 06 | 931 | -38 |  |  | 925 | -39 |  |  |  |  |  |  |  |  |
| 09 | 930 | -38 |  |  | 925 | -40 |  |  |  |  |  |  |  |  |
| 12 | 927 | -36 |  |  | 924 | -40 |  |  |  |  |  |  |  |  |
| 15 | 926 | -37 |  |  | 922 | -39 |  |  |  |  |  |  |  |  |
| 18 | 925 | -37 |  |  | 920 | -37 |  |  |  |  |  |  |  |  |
| 21 | 925 | -40 |  |  | 918 | -38 |  |  |  |  |  |  |  |  |


| PP |  |
| :---: | :---: |
|  | DAY 5 |
| 917 | -33 |
| 917 | -31 |
| 917 | -28 |
| 916 | -25 |
| 916 | -23 |
| 917 | -23 |
| 917 | -23 |
| 918 | -22 |
|  | DAY 12 |
| 918 | -16 |
| 918 | -16 |
| 917 | -18 |
| 916 | -19 |
| 913 | -15 |
| 913 | -14 |
| 912 | -15 |
| 909 | -14 |
|  | DAY 19 |
| 930 | -26 |
| 930 | -24 |
| 931 | -25 |
| 932 | -23 |
| 932 | -25 |
| 931 | -27 |
| 930 | -29 |
| 931 | -31 |
|  | DAY 26 |
| 934 | -34 |
| 933 | -32 |
| 932 | -30 |
| 931 | -29 |
| 931 | -30 |
| 932 | -30 |
| 933 | -31 |
| 934 | -33 |



* TEMPERATURE ( $C$ ) * MEAN $=-27.0$ STD DEV $=8.9$ mAX $=-8.1$ AT 130 GMT ON DAY 7 MIN $=-46.4$ AT 1520 GMT ON DAY 28
* theta (K) * MEAN = 251.85
* PRESSURE (MB) * MEAN $=923.2$ STD DEV $=10.0$ MAX $=942.2$ AT 540 GMT ON DAY 22 MIN $=894.4$ AT 530 GMT ON DAY 9
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $85.4 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

DAY 1
0 916-31
$\begin{array}{llll}03 & 915 & -23\end{array}$
$06 \quad 915-23$
09 916-24
12 917-25
$\begin{array}{ll}15 & 916 \\ -29\end{array}$
$\begin{array}{ll}8 & 914 \\ -31\end{array}$
21 913-27
DAY 8
00 916-12
03 916-13
$\begin{array}{lll}06 & 915 & -8\end{array}$
$\begin{array}{lll}09 & 914 & -8\end{array}$
12 914-11
$\begin{array}{llll}15 & 913 & -11\end{array}$
18 916-14
$\begin{array}{llll}21 & 924 & -24 & 11 \\ 338\end{array}$
DAY 15
901-37
$\begin{array}{llll}3 & 905 & -33\end{array}$
6 908-32
911-29
914-29
915-32
915-28
915-29
DAY 22
00 923-45
$03 \quad 922-47$
$06 \quad 920-48$
09 918-46
$12 \quad 915-43$
$\begin{array}{lll}15 & 912 & -40\end{array}$
18 909-37
21 907-35
DAY 29
00 913-42
$03912-45$
06 909-49
09 907-50
12 905-50
$15 \quad 904-51$
18 903-52
21 904-53

PP TT WV DD DAY 2
914-20
915-22
917-22
920-22
922-24
923-27
921-26
918-21
DAY 9
931-27
932-27
931-26
928-28
925-29
924-29
922-31
920-32
DAY 16
915-30
916-31
917-34
919-35
920-36
921-36
920-37
919-37
DAY 23
904-35
902-30
900-27
902-24
904-24
907-24
912-26
917-34
DAY 30
906-54
907-55
907-54
907-52
906-50
903-50
901-50
899-50
PP TT VV DD

$$
\text { DAY } 3
$$

913-18
909-15
909-15
907-15
907-17
911-20
913-22
916-25
DAY 10
917-32
913-33
908-33
901-32
895-31
889-31
883-26
878-24
DAY 17
918-36
916-38
914-40
913-39
912-38
911-37
910-37
909-38
DAY 24
921-36
924-39
926-40
928-35
928-33
928-34
926-37
923-38
DAY 31
900-51
901-52
903-51
907-51
913-51
916-50
918-51
919-49

| PP | TT WV | DD |
| :--- | :--- | :--- |
| DAY | 4 |  |

PP TT WV DD

DAY 5
928-35
924-35
919-33
914-28
912-26
914-33
917-34
920-33
DAY 12
916-36
920-38
922-38
$924-38$
$925-38$
$927-40$
928-41
929-42
DAY 19
$915-44$
$915-44$

915-44
$\begin{array}{ll}915 & -44 \\ 916 & -43\end{array}$
916-41
917-40
918-40
$919-41$
DAY 26
908-27
910-26
913-26
916-26
917-26
919-25
918-28
905-25 15329
918-26


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-33.4$ StD dEV $=10.4$ MAX $=-7.2$ at 2000 GMT ON DAY 7 MIN $=-54.6$ AT 2220 GMT ON DAY 29
* theta (K) * MEAN $=246.06$
* PRESSURE (MB) * MEAN $=913.4$ STD DEV $=10.0$ MAX $=932.0$ at 220 GMT ON DAY 9 MIN $=875.2$ AT 2320 GMt ON DAY 10

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $99.2 \%$
 PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

97


PP TT VV DD DAY 2
PP TT VV DD dAY 3
$\begin{array}{lrrr}\text { PP } & \text { TT } & \text { VV } & \text { DD } \\ \text { DAY } & 5 & \end{array}$

## PP TT VV DD DAY 6

PP DAY 7

00
03 06 09 12 15 18 21 00 03 06 09 12 15
909-52
910-53
910-52
09
12
15
18
21

| 21 |  |  |  |  | 915 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY 22 |  |  |  | DAY 23 |  |  |  |
| 00 | 922 | -14 |  |  | 914 | -11 |  |  |
| 03 |  |  |  |  | 915 | -11 | 12 | 33 |
| 06 |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  | 918 | -16 | 17 | 45 |
| 21 | 914 | -12 |  |  | 922 | -15 | 8 | 50 |
|  | DAY 29 |  |  |  |  | DAY | 30 |  |
| 00 | 921 | -29 | 7 | 57 | 917 | -24 | 8 | 80 |
| 03 | 920 | -32 | 7 | 71 | 914 | -22 | 9 | 80 |
| 06 | 919 | -31 | 7 | 71 | 911 | -23 | 5 | 82 |
| 09 | 920 | -31 | 5 | 59 | 908 | -23 | 10 | 78 |
| 12 | 920 | -31 | 6 | 45 | 908 | -26 | 7 | 45 |
| 15 | 921 | -29 | 6 | 40 | 908 | -27 | 7 | 60 |
| 18 | 921 | -27 | 7 | 59 | 910 | -25 | 9 | 35 |
| 21 | 920 | -25 | 7 | 66 | 912 | -23 | 6 | 19 |

912-40
915-42
Y 15

|  | DAY 16 |
| :--- | :--- |
| 911 | -48 |
| 911 | -48 |
| 912 | -49 |
| 912 | -49 |

910-49
10 -48
222-14
DAY 8

DAY 10 916-43
DAY 9

DAY 14
DAY 11
DAY 12

DAY 13
927-47 926-49

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 928 | -47 |  |  |  |
| DAY |  |  | 19 |  |
| 924 | -40 |  |  |  |
| 922 | -39 |  |  |  |
| 921 | -40 |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 920 | -37 |  |  |  |
| 920 | -33 |  |  |  |
|  | DAY | 26 |  |  |
| 917 | -14 | 14 | 82 |  |
| 914 | -15 | 15 | 88 |  |
| 914 | -19 | 9 | 85 |  |
| 913 | -22 | 10 | 77 |  |
| 912 | -24 | 7 | 91 |  |
| 911 | -22 | 7 | 75 |  |
| 912 | -27 | 5 | 136 |  |
| 911 | -27 | 4 | 95 |  |

925-27

923-33
921-32
DAY 12
$918-51$
DAY 20

921-32
923-34
925-29

DAY 27 $\begin{array}{llll}911 & -27 & 26\end{array}$
910-30 6
911 -30 7360
911-27-9336
911-25 11336
912-22 12343
914-20 11344 916-19 $12 \quad 5$ 917-50

926-41
925-40

## DAY 25

$\begin{array}{llll}920 & -10 & 15 & 68\end{array}$
$\begin{array}{lllll}920 & -10 & 17 & 75 \\ 920 & -10 & 16 & 68 \\ 922 & -11 & 15 & 66 \\ 921 & -12 & 12 & 71\end{array}$
$\begin{array}{llll}920 & -10 & 17 & 75 \\ 920 & -10 & 16 & 68 \\ 922 & -11 & 15 & 66 \\ 921 & -12 & 12 & 71\end{array}$
$\begin{array}{llll}920 & -10 & 17 & 75 \\ 920 & -10 & 16 & 68 \\ 922 & -11 & 15 & 66 \\ 921 & -12 & 12 & 71\end{array}$
DAY 18
927-41
928-41
928-42
928-42
927-41
$\begin{array}{llll}919 & -13 & 14 & 77\end{array}$
918-13 $16 \quad 74$

916-51
910-53

909-52
DAY 21
920-32
919-32
919-27
920-21

925-18
DAY 28
918-20 $9 \quad 30$
919-20 $8 \quad 50$
919-23 657
$\begin{array}{llll}918 & -31 & 4 & 81\end{array}$
$\begin{array}{llll}918 & -32 & 5 & 35\end{array}$
$\begin{array}{llll}918 & -31 & 9 & 32\end{array}$
$\begin{array}{llll}919 & -31 & 8 & 42\end{array}$
$921-30 \quad 6 \quad 52$
$\begin{array}{llllllll}922 & -12 & 8 & 78 & 920 & -10 & 15 & 68\end{array}$
$\begin{array}{llll}919 & -7 & 18 & 60\end{array}$
$\begin{array}{llll}918 & -7 & 20 & 52\end{array}$
$\begin{array}{llll}919 & -7 & 16 & 66\end{array}$

| 925 | -44 |  |  |
| :--- | :--- | :--- | :--- |
| 926 | -43 |  |  |
|  | DAY | 24 |  |
| 922 | -12 | 8 | 78 |
| 919 | -7 | 18 | 60 |
| 918 | -7 | 20 | 52 |
| 919 | -7 | 16 | 66 |

$\begin{array}{llll}920 & -9 & 14 & 66\end{array}$
$\begin{array}{llll}920 & -9 & 15 & 68\end{array}$

* temperature ( $C$ ) * mean $=-30.2$ Std dev $=13.1$ max $=-6.1$ at 800 GMT ON day 24 min $=-53.1$ at 1820 gmt on day 14
* THETA (K) * MEAN $=248.98$
* PRESSURE (MB) * MEAN $=917.7$ STD DEV $=5.4$ maX $=928.6$ at 1930 GMT ON DAY 12 MIN $=907.5$ at 1120 GMt ON DAY 30
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{MAX}=\star * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $54.2 \%$ PRESSURE: $54.2 \%$ WINDS: $76.7 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} \text { WV } \\ 2 \end{array}$ | DD |  | $\begin{gathered} \text { TTY } \end{gathered}$ |  |  |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{array}{r} w \\ 5 \end{array}$ | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  |  |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | $\begin{gathered} w \\ 7 \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 913 | -22 | 6 | 39 | 914 | -11 | 12 | 54 | 918 | -19 | 6 | 35 | 917 | -17 | 5 | 46 | 911 | -16 | 8 | 84 | 909 | -15 | 9 | 47 | 926 | -20 | 6 | 33 |
| 03 | 914 | -23 | 8 | 47 | 915 | -10 | 14 | 54 | 920 | -22 | 7 | 43 | 916 | -16 | 7 | 45 | 910 | -14 | 8 | 64 | 910 | -15 | 9 | 43 | 928 | -21 | 6 | 30 |
| 06 | 915 | -22 | 8 | 46 | 916 | -12 | 10 | 49 | 921 | -25 | 6 | 46 | 915 | -16 | 8 | 46 | 909 | -17 | 9 | 77 | 912 | -16 | 9 | 33 | 929 | -22 | 5 | 25 |
| 09 | 915 | -19 | 9 | 57 | 917 | -12 | 6 | 50 | 922 | -27 | 6 | 52 | 915 | -18 | 7 | 39 | 909 | -20 | 6 | 77 | 914 | -19 | 6 | 40 | 930 | -24 | 7 | 28 |
| 12 | 916 | -17 | 9 | 49 | 917 | -18 | 4 | 82 | 922 | -28 | 8 | 45 | 915 | -18 | 8 | 50 | 909 | -12 | 12 | 53 | 916 | -22 | 6 | 18 | 930 | -24 | 5 | 25 |
| 15 | 915 | -19 | 9 | 60 | 917 | -21 | 4 | 71 | 921 | -24 | 6 | 59 | 914 | -19 | 8 | 54 | 908 | -12 | 11 | 60 | 919 | -22 | 7 | 42 | 930 | -24 | 4 | 32 |
| 18 | 915 | -18 | 5 | 64 | 917 | -19 | 4 | 46 | 919 | -23 | 4 | 71 | 913 | -17 | 9 | 57 | 908 | -13 | 12 | 53 | 922 | -21 | 7 | 32 | 930 | -18 | 2 | 54 |
| 21 | 914 | -13 | 5 | 85 | 917 | -18 | 5 | 57 | 918 | -17 | 6 | 61 | 913 | -18 | 8 | 84 | 908 | -15 | 8 | 49 | 924 | -21 | 6 | 37 | 929 | -19 | 3 | 73 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 928 | -18 | 1 | 350 | 924 | -18 | 7 | 28 | 907 | -18 | 6 | 90 | 926 | -17 | 6 | 39 | 925 | -15 | 7 | 80 | 917 | -17 | 10 | 37 | 924 | -17 | 4 | 352 |
| 03 | 927 | -24 | 3 | 57 | 923 | -21 | 2 | 42 | 907 | -15 | 7 | 45 | 927 | -18 | 7 | 36 | 924 | -15 | 9 | 71 | 917 | -18 | 10 | 50 | 925 | -21 | 4 | 43 |
| 06 | 927 | -22 | 4 | 21 | 921 | -17 | 5 | 63 | 907 | -14 | 7 | 7 | 927 | -21 | 6 | 90 | 921 | -18 | 9 | 66 | 916 | -20 | 9 | 45 | 925 | -24 | 5 | 49 |
| 09 | 926 | -20 | 5 | 15 | 919 | -16 | 7 | 74 | 910 | -14 | 7 | 344 | 928 | -19 | 8 | 66 | 921 | -20 | 7 | 52 | 916 | -21 | 9 | 16 | 925 | -23 | 4 | 56 |
| 12 | 926 | -19 | 6 | 14 | 916 | -20 | 9 | 95 | 912 | -13 | 6 | 16 | 928 | -17 | 7 | 70 | 920 | -18 | 9 | 40 | 918 | -19 | 7 | 355 | 926 | -26 | 3 | 42 |
| 15 | 925 | -18 | 5 | 16 | 914 | -22 | 8 | 106 | 916 | -13 | 8 | 354 | 929 | -13 | 6 | 57 | 920 | -18 | 8 | 57 | 919 | -16 | 7 | 340 | 926 | -27 | 3 | 57 |
| 18 | 925 | -17 | 2 | 7 | 910 | -23 | 9 | 104 | 920 | -14 | 3 | 23 | 928 | -15 | 5 | 71 | 919 | -17 | 9 | 46 | 921 | -16 | 6 | 355 | 926 | -26 | 2 | 47 |
| 21 | 925 | -18 | 5 | 29 | 908 | -20 | 7 | 102 | 924 | -14 | 5 | 5 | 927 | -15 | 6 | 61 | 918 | -17 | 11 | 50 | 923 | -17 | 6 | 350 | 925 | -26 | 3 | 64 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 925 | -26 | 3 | 52 | 922 | -27 | 6 | 345 | 923 | -23 | 9 | 71 | 918 | -28 | 2 | 49 | 919 | -29 | 4 | 66 | 919 | -28 | 4 | 26 | 918 | -24 | 5 | 14 |
| 03 | 924 | -29 | 3 | 77 | 922 | -26 | 6 | 352 | 922 | -27 | 6 | 67 | 917 | -31 | 4 | 45 | 919 | -30 | 5 | 52 | 919 | -29 | 4 | 35 | 916 | -23 | 4 | 42 |
| 06 | 923 | -29 | 4 | 49 | 923 | -26 | 7 | 351 | 921 | -30 | 5 | 56 | 917 | -33 | 3 | 47 | 919 | -32 | 4 | 60 | 918 | -31 | 4 | 29 | 915 | -22 | 6 | 56 |
| 09 | 922 | -31 | 5 | 49 | 924 | -26 | 6 | 338 | 921 | -33 | 4 | 54 | 917 | -36 | 3 | 45 | 919 | -33 | 4 | 52 | 918 | -32 | 4 | 32 | 913 | -21 | 6 | 63 |
| 12 | 921 | -31 | 6 | 49 | 924 | -24 | 7 | 2 | 920 | -34 | 4 | 42 | 917 | -36 | 3 | 42 | 919 | -32 | 5 | 46 | 918 | -33 | 4 | 30 | 911 | -20 | 4 | 92 |
| 15 | 921 | -30 | 4 | 16 | 924 | -23 | 5 | 7 | 919 | -32 | 4 | 47 | 918 | -34 | 3 | 53 | 919 | -32 | 4 | 35 | 918 | -31 | 3 | 15 | 909 | -19 | 7 | 64 |
| 18 | 920 | -29 | 6 | 5 | 924 | -22 | 7 | 23 | 918 | -30 | 4 | 37 | 918 | -32 | 3 | 54 | 919 | -29 | 4 | 26 | 918 | -29 | 5 | 15 | 906 | -22 | 9 | 87 |
| 21 | 921 | -27 | 7 | 347 | 924 | -21 | 8 | 46 | 918 | -30 | 4 | 36 | 918 | -31 | 3 | 70 | 919 | -29 | 4 | 30 | 918 | -27 | 4 | 12 | 906 | -24 | 9 | 63 |
|  |  |  | 22 |  |  |  | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  |  | 26 |  |  |  | 27 |  |  |  | 28 |  |
| 00 | 907 | -17 | 7 | 12 | 913 | -16 | 12 | 73 | 904 | -8 | 8 | 23 | 910 | -18 | 7 | 98 | 917 | -14 | 9 | 326 | 911 | -11 | 5 | 11 | 909 | -19 | 5 | 68 |
| 03 | 909 | -19 | 6 | 19 | 910 | -14 | 11 | 66 | 906 | -9 | 22 | 324 | 906 | -17 | 6 | 99 | 920 | -13 | 12 | 329 | 911 | -11 | 6 | 357 | 909 | -19 | 6 | 64 |
| 06 | 912 | -19 | 6 | 23 | 911 | -10 | 6 | 22 | 914 | -14 | 22 | 334 | 904 | -10 |  | 360 | 921 | -13 | 7 | 330 | 911 | -13 | 7 | 323 | 908 | -22 | 6 | 60 |
| 09 | 915 | -21 | 5 | 39 | 913 | -10 | 10 | 1 | 918 | -16 | 19 | 344 | 905 | -12 |  | 357 | 921 | -15 | 3 | 5 | 911 | -13 | 6 | 351 | 907 | -22 | 7 | 71 |
| 12 | 917 | -21 | 9 | 33 | 918 | -12 | 7 | 5 | 921 | -18 | 14 | 341 | 907 | -13 | 8 | 338 | 920 | -20 | 4 | 59 | 911 | -17 | 5 | 35 | 906 | -25 | 8 | 70 |
| 15 | 918 | -20 | 5 | 53 | 920 | -15 | 9 | 43 | 921 | -18 | 9 | 351 | 909 | -11 | 10 | 345 | 917 | -20 | 7 | 70 | 910 | -19 | 6 | 33 | 905 |  | 8 | 63 |
| 18 | 918 | -18 | 7 | 53 | 917 | -13 | 9 | 66 | 919 | -18 | 1 | 7 | 911 | -11 |  | 330 | 914 | -19 | 6 | 95 | 910 | -19 | 4 | 23 | 904 | -22 | 7 | 57 |
| 21 | 916 | -17 | 11 | 77 | 909 | -11 | 13 | 77 | 913 | -18 | 4 | 97 | 915 | -13 | 8 | 327 | 913 | -14 | 7 | 57 | 910 | -19 | 4 | 43 | 903 | 19 | 7 | 42 |
|  |  | DAY | 29 |  |  | DAY | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 903 | -19 | 7 | 63 | 909 | -25 | 7 | 360 | 907 | -22 | 4 | 82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 902 | -21 | 5 | 71 | 909 | -26 | 8 | 360 | 905 | -23 | 5 | 81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 902 | -24 | 4 | 70 | 910 | -27 |  | 360 | 903 | -26 | 4 | 99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 902 | -27 | 4 | 37 | 911 | -28 | 5 | 4 | 901 | -27 | 3 | 88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 903 | -28 | 3 | 22 | 911 | -27 |  | 355 | 901 | -29 | 2 | 53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 904 | -26 |  | 360 | 911 | -24 |  | 357 | 902 | -27 |  | 345 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 906 | -25 |  | 347 | 911 | -23 |  | 360 | 903 | -28 |  | 312 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 907 | -25 |  | 360 | 910 | -22 |  | 35 |  |  |  | 309 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-20.8$ Std dev $=6.1$ max $=-6.6$ at 130 GMT ON DAY 24 MIN $=-36.2$ At 1140 GMT ON DAY 18
* THETA (K) * MEAN $=258.79$
* PRESSURE (MB) * MEAN $=916.1$ STD DEV $=7.0$ MAX $=930.4$ AT 1220 GMT ON DAY 7 MIN $=900.6$ AT 1100 GMT ON DAY 31
* WINDS (M/S) * MEAN $=6.4$ STD DEV $=2.9$ RESULTANT $=5.3$ FROM 38. CONSTANCY $=0.83$ MAX $=25.7$ FROM 337 . AT 700 GMT DAY 24 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllll} & 13 & 16 & 32 & 22 & 7 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 6\end{array}$

| HR | PP | TT | VV | DD |
| :--- | :--- | ---: | ---: | ---: |
|  | DAY |  |  |  |
| 0 | 1 |  |  |  |
| 00 | 908 | -29 | 5 | 302 |
| 03 | 910 | -28 | 4 | 357 |
| 06 | 911 | -28 | 4 | 360 |
| 09 | 913 | -28 | 4 | 4 |
| 12 | 914 | -27 | 1 | 26 |
| 15 | 914 | -25 | 1 | 357 |
| 18 | 915 | -25 | 2 | 36 |
| 21 | 915 | -25 | 3 | 70 |
|  |  | DAY | 8 |  |
| 00 | 920 | -8 | 13 | 54 |
| 03 | 921 | -9 | 13 | 54 |
| 06 | 924 | -9 | 11 | 47 |
| 09 | 926 | -10 | 14 | 43 |
| 12 | 929 | -10 | 12 | 47 |
| 15 | 931 | -10 | 12 | 53 |
| 18 | 933 | -10 | 10 | 60 |
| 21 | 934 | -10 | 11 | 67 | DAY 15

$\begin{array}{lllll}00 & 922 & -8 & 13 & 71\end{array}$
$\begin{array}{lllll}03 & 922 & -8 & 12 & 71\end{array}$
$\begin{array}{llll}06 & 922 & -10 & 12 \\ 70\end{array}$
$\begin{array}{lllll}09 & 924 & -11 & 11 & 64\end{array}$
$\begin{array}{llll}12 & 924 & -12 & 9\end{array} 71$
$\begin{array}{lllll}15 & 925 & -11 & 9 & 64\end{array}$
$\begin{array}{lllll}18 & 926 & -10 & 10 & 71\end{array}$
$\begin{array}{lllll}21 & 928 & -10 & 10 & 73\end{array}$ DAY 22

00
03
06
$\begin{array}{lllll}09 & 942 & -8 & 6 & 302\end{array}$
12
$\begin{array}{lllll}15 & 944 & -9 & 8 & 285\end{array}$
18
21
DAY 29
$\begin{array}{llll}00 & 930 & -11 & 2\end{array} 9$
$\begin{array}{llll}03 & 930-12 & 5 & 358\end{array}$
$\begin{array}{lllll}06 & 932 & -14 & 3 & 291\end{array}$
$\begin{array}{llll}09 & 932 & -14 & 1 \\ 354\end{array}$
$\begin{array}{lllll}12 & 933 & -13 & 26\end{array}$
$\begin{array}{lllll}15 & 934 & -11 & 1 & 56\end{array}$
$\begin{array}{llllllll}18 & 934 & -10 & 2 & 12 & 936 & -12 & 1\end{array} 233$
$\begin{array}{lllllllll}21 & 935 & -12 & 3 & 67 & 936 & -11 & 0 & 0\end{array}$

|  | TT | vV | DD |
| :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |
| 913 | -25 | 4 | 88 |
| 911 | -25 | 7 | 91 |
| 908 | -27 | 7 | 106 |
| 905 | -23 | 6 | 49 |
| 904 | -22 | 7 | 43 |
| 903 | -18 | 7 | 28 |
| 903 | -14 | 9 | 14 |
| 904 | -13 | 8 | 5 |
|  | DAY | 9 |  |
| 935 | -10 | 12 | 71 |
| 935 | -11 | 10 | 80 |
| 935 | -11 | 12 | 78 |
| 935 | -11 | 11 | 80 |
| 935 | -12 | 13 | 71 |
| 936 | -12 | 11 | 75 |
| 936 | -12 | 12 | 71 |
| 936 | -12 | 12 | 88 |
|  | DAY | 16 |  |
| 928 | -9 | 10 | 80 |
| 928 | -10 | 7 | 84 |
| 927 | -11 | 7 | 82 |
| 925 | -13 | 6 | 82 |
| 924 | -14 | 8 | 85 |
| 922 | -14 | 5 | 108 |
| 921 | -12 | 8 | 90 |
| 920 | -11 | 7 | 81 |
|  | DAY | 23 |  |
| 947 | -10 | 4 | 262 |
| 948 | -10 | 4 | 305 |
| 949 | -11 | 2 | 327 |
| 950 | -11 | 2 | 21 |
| 950 | -10 | 2 | 352 |
| 949 | -8 | 1 | 12 |
| 948 | -7 | 2 | 108 |
|  | DAY | 30 |  |
| 936 | -12 | 1 | 15 |
| 936 | -14 | 3 | 316 |
| 936 | -14 | 3 | 3272 |
| 936 | -12 | 1 | 233 |
| 936 | -11 | 0 | , |

PP TT VV DD DAY 3
904-13 $8 \quad 32$
904-12 6345
906-13 $\quad 5 \quad 15$
909-15 $4 \quad 5$
910-13 $\quad 5 \quad 15$
911-11 $\quad 6 \quad 16$
912-11 $8 \quad 23$
913-11 646 DAY 10
936-11 $12 \quad 87$
936-11 $10 \quad 75$
935-13 $10 \quad 78$
935-15 $11 \begin{array}{llll} & -15\end{array}$
934-15 $12 \quad 74$
934-14 $10 \quad 80$
933-12 968
933-11 8 - 63 DAY 17
918-10 599
916-11 $8 \quad 99$
915-12 $8 \quad 102$
913-12 $13 \quad 90$
914-12 981
915-10 $10 \quad 67$
$\begin{array}{llll}916 & -9 & 10 & 68\end{array}$
917 -9 1177

## DAY 24

$\begin{array}{llll}948 & -7 & 3 & 125\end{array}$
$\begin{array}{llll}947 & -8 & 4 & 143\end{array}$

947-14 0 0
948-16 211
947-15 4 338
947-12 4286
$\begin{array}{llll}947 & -9 & 3 & 282\end{array}$

PP TT VV DD DAY 4
912-13 $8 \quad 67$
911-14-9 75
$\begin{array}{llll}910 & -15 & 7 & 81\end{array}$
910-14 $8 \quad 66$
910-13 $\quad 8 \quad 33$
$\begin{array}{llll}911 & -14 & 7 & 60\end{array}$
911-15 $8 \quad 68$
$\begin{array}{llll}911 & -13 & 7 & 49\end{array}$
DAY 11
933-11 $10 \quad 70$
932-13 966
$\begin{array}{llll}931 & -14 & 8 & 67\end{array}$
930-16 $10 \quad 77$
$929-17 \quad 9 \quad 77$
928-17 $10 \quad 73$
927-15 974
927-14 5105 DAY 18
$\begin{array}{llll}917 & -7 & 9 & 87\end{array}$
$\begin{array}{llll}917 & -7 & 9 & 80\end{array}$
$\begin{array}{llll}918 & -8 & 8 & 80\end{array}$
$\begin{array}{llll}919 & -9 & 11 \quad 70\end{array}$
$\begin{array}{llll}920 & -9 & 10 & 71\end{array}$
$920-812 \quad 90$
$\begin{array}{llll}920 & -7 & 11 & 80\end{array}$
$\begin{array}{llll}921 & -6 & 14 & 70\end{array}$

## DAY 25

$\begin{array}{llll}946 & -7 & 4336\end{array}$
$\begin{array}{llll}945 & -7 & 2 & 312\end{array}$
$\begin{array}{llll}945 & -7 & 261\end{array}$
$\begin{array}{llll}945 & -9 & 4 & 264\end{array}$
945-10 4 282
944-10 3241
944-10 $\quad 3 \quad 253$
944-10 3302

PP TTVV DD DAY 5
911-12 $10 \quad 50$
912-11 $8 \quad 46$
$\begin{array}{llll}914 & -13 & 7 & 57\end{array}$
915-15 850
917-18 $8 \quad 56$
917-18 $10 \quad 52$
918-16 $10 \quad 61$
918-15 $8 \quad 63$

## DAY 12

927-13 4108
$\begin{array}{llll}926-14 & 2 & 75\end{array}$
$\begin{array}{llll}926 & -17 & 3 & 67\end{array}$
$\begin{array}{llll}926 & -18 & 3 & 42\end{array}$
$\begin{array}{llll}926 & -18 & 3 & 37\end{array}$
925-18 $7 \quad 1$
925-16 $4 \quad 1$
$\begin{array}{llll}926 & -15 & 7 & 11\end{array}$

## DAY 19

$\begin{array}{llll}923 & -5 & 11 & 66\end{array}$
$\begin{array}{llll}925 & -6 & 10 & 71\end{array}$
$\begin{array}{llll}927 & -7 & 8 & 73\end{array}$
$\begin{array}{llll}929 & -8 & 9 & 66\end{array}$
$\begin{array}{llll}930 & -8 & 12 & 63\end{array}$
$\begin{array}{llll}932 & -7 & 9 & 71\end{array}$
$\begin{array}{llll}933 & -6 & 10 & 59\end{array}$
$934-5 \quad 7.66$

## DAY 26

943-11 3237
941-11 0
940-12 $2 \quad 39$
940-12 270
$\begin{array}{llll}939 & -13 & 3 & 143\end{array}$
938-13 3 - 99
937-11 0
$\begin{array}{llll}936 & -12 & 3 & 147\end{array}$

PP TT VV DD PP TTVV DD DAY 6
$\begin{array}{llll}917 & -15 & 7 & 84\end{array}$
916-16 $\quad 6 \quad 80$
$\begin{array}{llll}915 & -18 & 7 & 73\end{array}$
$\begin{array}{llll}916 & -20 & 5 & 84\end{array}$
916-20 $8 \quad 84$
916-20 $10 \quad 71$
917-18 $10 \quad 73$
918-16 $8 \quad 54$
DAY 13
926-10 5351
$\begin{array}{llll}926 & -9 & 5 & 360\end{array}$
$\begin{array}{llll}926 & -9 & 4 & 63\end{array}$
926-15 3102
925-19 487
925-15 $5 \quad 50$
925-12 $5 \quad 54$
925-10 $5 \quad 42$
DAY 20
$\begin{array}{llll}934 & -6 & 6 & 36\end{array}$
$936 \quad-8 \quad 6$
$\begin{array}{llll}932 & -8 & 8 & 64\end{array}$

DAY 27
935-11 2118
933-12 $4 \quad 77$
932-13 $4 \quad 80$
931-13 4119
930-13 5102
928-15 $\quad 3 \quad 88$
927-15 3102
927-15 2330

DAY 28
927-12 1303
$\begin{array}{llll}926 & -13 & 3 & 21\end{array}$ 926-13 $\quad 5 \quad 30$ 926-17 $4 \quad 82$ 926-19 $4 \quad 26$ 927-15 4320 928-14 5351 929-13 6352


* theta (K) * MEAN $=266.18$
* PRESSURE (MB) * MEAN $=926.1$ STD DEV $=11.3 \mathrm{MAX}=949.9$ AT 1150 GMT ON DAY 23 MIN $=902.4$ AT 1610 GMT ON DAY 2
* $\operatorname{WINDS}(\mathrm{M} / \mathrm{S}) *$ MEAN $=6.8 \mathrm{STD}$ DEV $=3.6$ RESULTANT $=5.6$ FROM 63. CONSTANCY $=0.82 \mathrm{MAX}=15.5$ FROM 52. AT 2340 GMT DAY 7
* MISSING 3-hourly observations * temperature: 10.0 \% PRESSURE: $10.0 \%$ WINDS: $10.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW


| HR | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT | VV | DD | PP | TT |  | DD | PP | TT |  | DD | PP |  |  | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  | DAY | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 00 | 935 | -10 | 2 | 255 | 933 |  | 0 | 0 | 935 | -8 | 4 | 118 | 940 | -11 | 7 | 322 |  |  |  |  | 937 | -11 | 6 | 174 | 940 | -10 | 6 | 170 |
| 03 |  |  |  |  | 933 | -11 | 2 | 320 | 934 | -11 | 4 | 120 | 942 | -10 | 4 | 350 |  |  |  |  | 936 | -12 | 7 | 174 | 940 | -10 | 8 | 163 |
| 06 | 934 | -11 | 2 | 216 | 933 | -12 | 2 | 63 | 933 | -13 | 3 | 127 | 943 | -10 | 2 | 43 | 943 | -10 | 3 | 164 | 936 | -12 | 7 | 175 | 940 | -11 | 9 | 154 |
| 09 | 933 | -12 | 2 | 116 | 934 | -14 | 4 | 360 | 931 | -14 | 4 | 97 | 944 | -10 | 1 | 99 | 941 | -11 | 3 | 163 | 936 | -13 | 5 | 170 | 940 | -13 | 7 | 167 |
| 12 | 933 | -13 | 3 | 29 | 935 | -12 | 4 | 2 | 930 | -14 | 2 | 97 | 944 | -12 | 2 | 143 | 940 | -12 | 6 | 172 | 936 | $-13$ | 7 | 172 | 940 | -14 | 6 | 163 |
| 15 | 933 | -11 | 1 | 67 | 935 | -11 | 4 | 322 | 931 | -9 | 4 | 32 | 944 | -9 | 2 | 16 | 939 | -12 | 4 | 153 | 937 | -11 | 5 | 164 | 941 | -13 | 5 | 164 |
| 18 | 933 | -9 | 1 | 184 | 936 | -9 | 0 | 0 | 933 | -11 | 6 | 347 |  |  |  |  | 937 | -11 | 4 | 174 | 938 | -10 | 6 | 164 | 942 | -13 | 5 | 140 |
| 21 | 933 | -11 | 1 | 333 | 937 | -8 | 0 | 0 | 936 | -11 | 8 | 313 |  |  |  |  | 937 | -11 | 6 | 187 | 939 | -10 | 7 | 168 | 942 | -13 | 6 | 147 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
| 00 | 942 | -12 | 6 | 137 | 936 | -12 | 6 | 135 | 929 | -12 | 6 | 136 | 927 | -5 | 3 | 104 | 927 | -6 | 5 | 18 | 922 | -1 | 0 | 0 |  |  |  |  |
| 03 | 941 | -13 | 7 | 126 | 935 | -12 | 5 | 143 | 928 | -11 | 6 | 129 |  |  |  |  |  |  |  |  | 921 | -1 | 0 | 0 |  |  |  |  |
| 06 | 940 | -14 | 6 | 130 | 934 | $-13$ | 5 | 130 | 927 | -12 | 5 | 127 |  |  |  |  | 926 | -6 | 3 |  |  |  |  |  | 924 | -8 | 2 | 313 |
| 09 | 940 | -15 | 5 | 135 | 933 | -15 | 4 | 122 | 927 | -13 | 7 | 130 | 927 | -10 | 3 | 77 | 925 | -6 | 3 | 33 |  |  |  |  | 926 | -7 | 0 | 0 |
| 12 | 939 | -15 | 4 | 125 | 932 | -15 | 5 | 122 | 927 | -11 | 5 | 125 | 927 | -7 | 2 | 74 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 938 | -14 | 5 | 132 | 931 | -14 | 5 | 127 | 926 | -10 | 5 | 113 |  |  |  |  |  |  |  |  |  |  |  |  | 927 | -6 | 2 | 357 |
| 18 | 937 | $-13$ | 5 | 137 | 931 | $-13$ | 5 | 123 | 927 | -8 | 4 | 116 |  |  |  |  |  |  |  |  | 920 | -5 | 3 | 303 |  |  |  |  |
| 21 | 937 | -13 | 6 | 144 | 930 | -13 | 6 | 136 | 927 | -6 | 4 | 105 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  | 928 | -7 | 2 | 241 |  |  |  |  |  |  |  |  | 930 | -8 | 3 | 327 |  |  |  |  |
| 06 |  |  |  |  | 931 | -6 | 0 | 0 | 928 | -8 | 0 | 0 |  |  |  |  |  |  |  |  | 931 | -10 | 2 | 9 |  |  |  |  |
| 09 | 930 | -7 | 1 | 4 |  |  |  |  |  |  |  |  | 928 | -7 | 2 | 161 |  |  |  |  |  |  |  |  | 930 | -7 | 5 | 104 |
| 12 |  |  |  |  | 931 | -6 | 0 | 0 |  |  |  |  | 926 | -6 | 2 |  |  |  |  |  |  |  |  |  | 929 | -7 | 4 |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 935 | -12 | 3 | 60 | 928 | -2 | 4 | 360 |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 936 | -17 | 4 | 105 | 930 | -3 | 7 | 323 |
|  |  | DAY | 22 |  |  | DAY | 23 |  |  | DAY | 24 |  |  | DAY | 25 |  |  | DAY | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 |  | -3 | 6 | 333 |  |  |  |  |  |  |  |  |  |  |  |  | 929 | -1 | 7 | 338 |  |  |  |  |  |  |  |  |
| 03 | 932. | -3 | 7 | 357 | 937 | -3 | 5 | 5 | 937 | -5 | 8 | 330 | 936 | -6 | 6 |  | 928 | -2 | 7 | 347 |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  | 938 | -6 | 7 | 337 | 934 | -7 | 5 |  | 927 | -2 | 9 | 334 |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  | 936 | -4 | 4 | 45 | 940 | -7 | 3 | 360 | 933 | -5 | 4 |  | 927 | -2 | 9 | 327 | 931 | -1 | 1 | 144 |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  | 940 | -7 | 4 | 35 | 932 | -4 | 2 |  |  |  |  |  | 931 | -3 | 0 | 0 | 932 | -4 | 6 | 282 |
| 15 |  |  |  |  |  |  |  |  | 940 | -6 | 5 | 74 |  |  |  |  |  |  |  |  |  |  |  |  | 933 | -4 | 6 | 296 |
| 18 |  |  |  |  | 932 | -3 | 6 | 340 |  |  |  |  | 930 | -3 | 5 | 351 | 927 | -1 | 7 | 355 | 932 | -3 | 6 | 146 | 933 | -2 | 4 | 300 |
| 21 | 935 | -1 |  | 8330 | 933 | -3 | 7 | 319 |  |  |  |  | 930 | -2 | 6 | 341 | 928 | 0 | 5 | 352 | 932 | -3 | 5 | 156 |  |  |  |  |
|  |  | DAY | 29 |  |  |  | 30 |  |  | DAY | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 934 | -2 | 5 | 285 | 938 | -3 | 2 | 286 | 935 | -3 | 5 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 934 | -4 | 5 | 5310 |  |  |  |  | 935 | -3 | 4 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 935 | -4 | 3 | 3296 | 937 | -5 | 3 | 43 | 934 | -4 | 2 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 935 | -5 | 4 | 4324 | 937 | -6 | 3 | 337 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 936 | -4 | 0 | 0 | 937 | -7 | 4 | 360 | 932 | -7 | 5 | 82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 937 |  | 0 | 0 |  |  |  |  | 931 | -5 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 937 | -3 |  | 3341 | 936 | -3 | 4 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* TEMPERATURE (C) * MEAN $=-8.1$ STD DEV $=4.1$ MAX $=0.0$ AT 2000 GMT ON DAY 26 MIN $=-16.8$ AT 2110 GMT ON DAY 20
* THETA (K) * MEAN $=270.26$
* PRESSURE (MB) * MEAN $=933.6$ STD DEV $=5.0$ MAX $=944.4$ AT 1550 GMT ON DAY 4 MIN $=919.5$ AT 1700 GMT ON DAY 13
* $\operatorname{WINDS}(M / S) *$ MEAN $=4.2$ STD DEV $=2.2$ RESULTANT $=0.9$ FROM 87. CONSTANCY $=0.21$ MAX $=8.4$ FROM 337. AT 120 GMT DAY 24
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $40.3 \%$ PRESSURE: $39.9 \%$ WINDS: $39.5 \%$
 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 12 & 4 & 4 & 9 & 4 & 9 & 17 & 10 & 7 & 0 & 1 & 1 & 0 & 5 & 7 & 11\end{array}$


## JAN 97

HR PP TT WV DD
$\begin{array}{lllll}00 & 921 & -5 & 7 & 127\end{array}$
$\begin{array}{lllll}03 & 919 & -7 & 6 & 122\end{array}$
$\begin{array}{lllll}06 & 918 & -6 & 9 & 95\end{array}$
$\begin{array}{lllll}09 & 919 & -6 & 8 & 97\end{array}$
$\begin{array}{lllll}12 & 919 & -7 & 11 & 94\end{array}$
$\begin{array}{lllll}15 & 919 & -8 & 10 & 61\end{array}$
$\begin{array}{lllll}18 & 922 & -8 & 5 & 59\end{array}$
$\begin{array}{lllll}21 & 922 & -6 & 11 & 57\end{array}$
DAY 8
$\begin{array}{llll}00 & 922-10 \quad 2 & 21\end{array}$
$\begin{array}{lllll}03 & 920 & -9 & 2 & 185\end{array}$
$\begin{array}{llll}06 & 919 & -11 & 2198\end{array}$
$\begin{array}{lllll}09 & 919 & -12 & 3 & 105\end{array}$
$\begin{array}{llll}12 & 919-13 & 4 & 81\end{array}$
$\begin{array}{lllll}15 & 919 & -12 & 3 & 64\end{array}$
$\begin{array}{llll}18 & 919 & -11 & 6\end{array}$
$\begin{array}{llll}21 & 919 & -10 & 9\end{array}$ DAY 15
$\begin{array}{lllll}00 & 924 & -5 & 7 & 74\end{array}$
$\begin{array}{lllll}03 & 924 & -5 & 6 & 67\end{array}$
$\begin{array}{lllll}06 & 923 & -6 & 6 & 82\end{array}$
$\begin{array}{lllll}09 & 924 & -7 & 5 & 67\end{array}$
$\begin{array}{lllll}12 & 924 & -8 & 6 & 75\end{array}$
$\begin{array}{lllll}15 & 924 & -8 & 6 & 66\end{array}$
$\begin{array}{lllll}18 & 924 & -7 & 5 & 67\end{array}$
$\begin{array}{lllll}21 & 925 & -7 & 4 & 39\end{array}$

| DAY 22 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 00 | 926 | -5 | 4 | 92 |

$\begin{array}{lllll}03 & 926 & -6 & 4 & 109\end{array}$
$\begin{array}{lllll}06 & 926 & -8 & 3 & 139\end{array}$
$\begin{array}{lllll}09 & 926 & -9 & 2 & 46\end{array}$
$\begin{array}{lllll}12 & 927 & -13 & 5 & 56\end{array}$
$\begin{array}{lllll}15 & 928 & -13 & 8 & 52\end{array}$
$\begin{array}{lllll}18 & 928 & -12 & 5 & 49\end{array}$
$\begin{array}{llll}21 & 929 & -12 & 5\end{array}$ DAY 29

| 00 | 929 | -10 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}03 & 928 & -12 & 6 & 54\end{array}$
$\begin{array}{llll}06 & 928 & -14 & 6 \\ 59\end{array}$
$\begin{array}{lllll}09 & 928 & -12 & 6 & 91\end{array}$
$\begin{array}{lllll}12 & 927 & -13 & 6 & 91\end{array}$
$\begin{array}{lllll}15 & 927 & -10 & 6 & 57\end{array}$
$\begin{array}{lllll}18 & 927 & -9 & 5 & 68\end{array}$
$\begin{array}{lllll}21 & 927 & -9 & 5 & 78\end{array}$

| PP | TT | W | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAY |  | 2 |  |  | day | 3 |  |
| 923 | -5 | 8 | 67 | 923 | -4 | 6 | 81 |
| 923 | -5 | 8 | 66 | 922 | -5 | 5 | 81 |
| 924 | -6 | 6 | 70 | 922 | -6 | 5 | 77 |
| 925 | -6 | 6 | 67 | 921 | -7 | 4 | 75 |
| 925 | -7 | 7 | 84 | 921 | -8 | 4 | 88 |
| 924 | -7 | 8 | 70 | 920 | -8 | 5 | 68 |
| 924 | -6 | 7 | 70 | 920 | -7 | 6 | 66 |
| 924 | -5 | 7 | 84 | 919 | -6 | 5 | 71 |


| PP | TT VV | DD |  |
| :--- | ---: | ---: | ---: |
| DAY | 4 |  |  |
| 919 | -5 | 5 | 66 |
| 918 | -5 | 4 | 53 |
| 918 | -7 | 4 | 57 |
| 919 | -9 | 4 | 60 |
| 919 | -10 | 5 | 47 |
| 920 | -10 | 6 | 32 |
| 921 | -11 | 5 | 60 |
| 922 | -10 | 3 | 29 |

$\begin{array}{llll}\text { PP } & \text { TT VV } & \text { DD } \\ & \text { DAY } & 5 \\ 922 & -9 & 2 & 348\end{array}$
$\begin{array}{llll}921 & -6 & 0 & 0\end{array}$
922-11 2265
924-12 1288
925-12 230
925-10 177.
925-11 243
925-10 257
DAY 12
928-13 237
$\begin{array}{llll}928 & -13 & 3 & 30\end{array}$
928-13 $\quad 3 \quad 75$
929-14 $6 \quad 28$
$\begin{array}{llll}930 & -14 & 5 & 5\end{array}$
$\begin{array}{llll}930 & -13 & 4 & 70\end{array}$
$\begin{array}{llll}930 & -11 & 2 & 80\end{array}$
$\begin{array}{llll}929 & -12 & 3 & 88\end{array}$ DAY 17
$\begin{array}{llll}927 & -5 & 4 & 63\end{array}$
$\begin{array}{llll}926 & -5 & 4 & 63\end{array}$
$\begin{array}{llll}926 & -6 & 5 & 70\end{array}$
$\begin{array}{llll}926 & -7 & 6 & 78\end{array}$
$\begin{array}{llll}926 & -7 & 6 & 70\end{array}$
$\begin{array}{llll}927 & -6 & 7 & 66\end{array}$
$\begin{array}{llll}927 & -5 & 9 & 52\end{array}$
$\begin{array}{llll}928 & -5 & 9 & 40\end{array}$ DAY 24
931-10 3 8
931-11 $4 \quad 53$
$\begin{array}{llll}931 & -12 & 3 & 42\end{array}$
931-12 $4 \quad 54$
$\begin{array}{llll}930 & -11 & 3 & 139\end{array}$
929-10 2126
$\begin{array}{llll}927 & -7 & 1 & 127\end{array}$
$\begin{array}{llll}925 & -5 & 0 & 0\end{array}$ DAY 31

934-10 $2 \quad 1$
$\begin{array}{llll}935 & -9 & 2 & 29\end{array}$
$\begin{array}{llll}935 & -7 & 2 & 32\end{array}$
$\begin{array}{llll}936 & -8 & 4 & 331\end{array}$
$\begin{array}{llll}936 & -7 & 4 & 351\end{array}$
$\begin{array}{llll}936 & -7 & 4 & 4\end{array}$
$\begin{array}{llll}935 & -6 & 6 & 358\end{array}$
$\begin{array}{llll}935 & -6 & 6 & 358 \\ 934 & -5 & 6 & 351\end{array}$

PP TT WV DD PP TT WV DD DAY 6
925-10 $3 \quad 56$
926-10 2343
926-11 254
926-10 1323
926-11 2357
926-10 1150
925-11 21
925-11 3360 DAY 13
$\begin{array}{llll}927 & -5 & 7104\end{array}$
$\begin{array}{llll}926 & -5 & 6 & 98\end{array}$
$\begin{array}{llll}925 & -5 & 6 & 111\end{array}$
$\begin{array}{llll}925 & -6 & 7 & 82\end{array}$
$\begin{array}{llll}925 & -8 & 9 & 77\end{array}$
$\begin{array}{llll}925 & -8 & 9 & 87\end{array}$
$\begin{array}{llll}924 & -7 & 10 & 80\end{array}$
$\begin{array}{llll}924 & -6 & 8 & 80\end{array}$ DAY 20
$\begin{array}{llll}933 & -7 & 1164\end{array}$
$\begin{array}{llll}933 & -7 & 1 & 158\end{array}$
$\begin{array}{llll}932 & -8 & 1 & 49\end{array}$
$\begin{array}{llll}932 & -8 & 1 & 309\end{array}$
$\begin{array}{llll}932 & -9 & 2 & 42\end{array}$
$\begin{array}{llll}930 & -8 & 3 & 46\end{array}$
$\begin{array}{llll}929 & -9 & 6 & 45\end{array}$
$\begin{array}{llll}929 & -8 & 7 & 52\end{array}$
DAY 27
$\begin{array}{llll}923 & -8 & 7 & 71\end{array}$
$\begin{array}{llll}923 & -8 & 6 & 74\end{array}$
$\begin{array}{llll}924 & -8 & 5 & 60\end{array}$
$\begin{array}{llll}926 & -9 & 3 & 14\end{array}$
$\begin{array}{llll}927 & -9 & 5 & 60\end{array}$
$\begin{array}{llll}928 & -8 & 4 & 71\end{array}$
$\begin{array}{llll}929 & -7 & 5 & 52\end{array}$
$\begin{array}{llll}930 & -7 & 4 & 59\end{array}$

DAY 7
925-11 3
924-12 $\quad 4 \quad 11$
924-12 2329
924-12 $4 \quad 39$
$\begin{array}{llll}924 & -12 & 20\end{array}$
$\begin{array}{llll}923 & -12 & 29\end{array}$
923-12 $4 \quad 70$
922-11 $4 \quad 36$ DAY 14
$\begin{array}{llll}923 & -5 & 8 & 94\end{array}$
$\begin{array}{llll}922 & -5 & 8 & 88\end{array}$
$\begin{array}{llll}922 & -6 & 8 & 92\end{array}$
$\begin{array}{llll}922 & -7 & 9 & 90\end{array}$
$\begin{array}{llll}922 & -7 & 10 & 87\end{array}$
$\begin{array}{llll}922 & -7 & 11 & 77\end{array}$
$\begin{array}{llll}923 & -7 & 9 & 75\end{array}$
$\begin{array}{llll}923 & -7 & 8 & 57\end{array}$
DAY 21
$\begin{array}{llll}928 & -6 & 5 & 50\end{array}$
$\begin{array}{llll}927 & -6 & 4 & 47\end{array}$
$\begin{array}{llll}927 & -6 & 5 & 77\end{array}$
$\begin{array}{llll}926 & -7 & 4 & 78\end{array}$
$\begin{array}{llll}926 & -8 & 3 & 90\end{array}$
$\begin{array}{llll}926 & -7 & 6 & 88\end{array}$
$\begin{array}{llll}926 & -6 & 4 & 111\end{array}$
$\begin{array}{llll}926 & -6 & 4111\end{array}$
DAY 28
$\begin{array}{llll}931 & -7 & 5 & 59\end{array}$
$\begin{array}{llll}931 & -7 & 4 & 53\end{array}$
$\begin{array}{llll}931 & -8 & 2 & 16\end{array}$
931-10 1302
931-10 261
931-10 $4 \quad 59$
930-10 $4 \quad 32$
$\begin{array}{llll}930 & -9 & 5 & 56\end{array}$

* temperature ( $C$ ) * mean $=-8.7$ Std dev $=2.6$ maX $=-4.0$ at 120 GMT ON dAY 13 min $=-17.4$ AT 1400 GMT ON dAY 25
* theta (K) * MEAN $=270.36$
* PRESSURE (MB) * MEAN $=926.1$ STD DEV $=4.4$ MAX $=936.6$ AT 1230 GMT ON DAY 31 MIN $=917.9$ at 420 GMt ON DAY 4
* WINDS (M/S) * MEAN $=4.5$ STD DEV $=2.3$ RESULTANT $=3.9$ fROM 63. CONSTANCY $=0.86$ MAX $=11.5$ FROM 80. AT 2110 GMT DAY 13
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 8 & 9 & 22 & 33 & 14 & 4 & 2 & 1 & 0 & 1 & 0 & 0 & 0 & 1 & 2 & 2\end{array}$

| FEB | 97 |  |  |
| :---: | :---: | :---: | :---: |
| HR | PP | TT | VV DD |
|  |  | DAY | 1 |
| 00 | 934 | -5 | 5352 |
| 03 | 933 | -5 | 6338 |
| 06 | 933 | -5 | 4338 |
| 09 | 933 | -5 | 5348 |
| 12 | 933 | -5 | 4348 |
| 15 | 933 | -5 | 3348 |
| 18 |  |  |  |
| 21 | 935 | -4 | 4358 |
|  |  | DAY | 8 |
| 00 | 923 | -8 | 445 |
| 03 | 923 | -10 | 1352 |
| 06 | 925 | -17 | 2284 |
| 09 | 927 | -18 | 2281 |
| 12 | 928 | -19 | 2351 |
| 15 | 928 | -20 | 18 |
| 18 | 928 | -16 | 1312 |
| 21 | 928 | -15 | 3302 |
|  |  | DAY | 15 |
| 00 | 924 | -20 | 392 |
| 03 | 924 | -20 | 498 |
| 06 | 924 | -22 | 4111 |
| 09 | 925 | -24 | 482 |
| 12 | 925 | -24 | 577 |
| 15 | 925 | -24 | 880 |
| 18 | 926 | -24 | 8 |
| 21 | 926 | -23 | $7 \quad 67$ |
|  |  | DAY | 22 |
| 00 | 917 | -8 | 5351 |
| 03 | 917 | -8 | 5352 |
| 06 | 918 | -8 | 5355 |
| 09 | 919 | -9 | 515 |
| 12 | 919 | -9 | 4360 |
| 15 | 919 | -10 | $5 \quad 29$ |
| 18 | 919 | -9 | 636 |
| 21 | 919 | -8 | 61 |



| PP | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ | VV | DD |  | $\begin{gathered} \text { TT } \\ \text { DAY } \end{gathered}$ |  | DD |  |  |  | DD |  |  | W 7 | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 935 | -6 | 4 | 32 | 934 | -4 | 4 | 357 | 934 | -4 | 4 | 14 | 927 | -6 | 4 |  |
| 934 | -7 | 3 | 25 | 935 | -4 | 4 | 360 | 934 | -4 | 2 | 360 | 926 | -5 | 5 | 4 |
| 934 | -7 | 5 | 47 | 935 | -4 | 4 | 7 | 933 | -6 | 2 | 22 | 925 | -7 | 3 | 45 |
| 933 | -6 | 4 | 36 | 936 | -4 | 4 | 22 | 933 | -6 | 3 | 64 | 924 | -7 | 3 | 66 |
| 933 | -5 | 5 | 26 | 936 | -4 | 5 | 26 | 932 | -8 | 5 | 57 | 923 | -7 | 4 | 50 |
| 933 | -5 | 5 | 26 | 936 | -4 | 5 | 35 | 930 | -8 | 6 | 37 | 922 | -8 | 5 | 19 |
| 933 | -5 | 7 | 47 | 935 | -4 | 5 | 43 | 929 | -8 | 6 | 47 | 922 | -8 | 4 | 45 |
| 933 | -5 | 6 | 40 | 934 | -4 | 5 | 29 | 928 | -7 | 3 | 36 | 922 | -8 | 5 | 42 |
|  | DAY | 11 |  |  | DAY | 12 |  |  |  |  |  |  | DAY | 14 |  |
| 930 | -19 | 4 | 91 | 931 | -18 | 4 | 75 | 923 | -22 | 3 | 59 | 920 | -21 | 8 | 61 |
| 930 | -22 | 4 | 57 | 930 | -18 | 6 | 67 | 922 | -20 | 2 | 47 | 921 | -22 | 8 | 71 |
| 931 | -24 | 5 | 47 | 929 | -18 | 4 | 91 | 921 | -22 | 3 | 108 | 921 | -23 | 9 | 67 |
| 932 | -26 | 7 | 53 | 928 | -20 | 6 | 87 | 921 | -24 | 5 | 49 | 922 | -24 | 7 | 77 |
| 933 | -23 | 3 | 40 | 928 | -25 | 4 | 102 | 921 | -27 | 9 | 73 | 923 | -24 | 9 | 68 |
| 934 | -20 | 5 | 66 | 926 | -24 | 6 | 88 | 921 | -25 | 4 | 111 | 923 | -24 | 10 | 75 |
| 933 | -20 | 5 | 74 | 925 | -24 | 5 | 87 | 920 | -23 | 8 | 63 | 924 | -23 | 7 | 77 |
| 933 | -19 | 5 | 63 | 924 | -23 | 4 | 91 | 920 | -21 | 7 | 67 | 924 | -22 | 7 | 71 |
|  | DAY | 18 |  |  | DAY | 19 |  |  |  | 20 |  |  | DAY | 21 |  |
| 930 | -18 | 3 | 94 | 927 | -18 | 3 | 302 | 939 | -21 | 5 | 15 | 925 | -19 | 10 | 70 |
| 929 | -18 | 1 | 177 | 929 | -22 | 1 | 322 | 938 | -21 | 3 | 19 | 923 | -19 | 7 | 70 |
| 928 | -21 | 2 | 129 | 932 | -27 | 2 | 333 | 937 | -21 | 5 | 25 | 921 | -19 | 9 | 73 |
| 928 | -26 | 4 | 64 | 935 | -28 | 1 | 12 | 936 | -21 | 4 | 64 | 920 | -17 | 6 | 70 |
| 928 | -23 | 4 | 71 | 938 | -30 | 4 | 56 | 934 | -22 | 8 | 37 | 919 | -14 | 6 | 90 |
| 926 | -22 | 4 | 85 | 939 | -27 | 6 | 49 | 932 | -23 | 6 | 35 | 17 | -12 | 6 | 59 |
| 925 | -19 | 5 | 92 | 940 | -25 | 7 | 49 | 930 | -22 | 8 | 67 | 916 | -9 | 4 | 350 |
| 925 | -19 | 2 | 63 | 940 | -22 | 6 | 37 | 927 | -21 | 9 | 61 | 916 | -7 | 6 | 336 |
|  |  | 25 |  |  | DAY | 26 |  |  |  |  |  |  | DAY | 28 |  |
| 927 | -19 | 3 | 285 | 941 | -21 | 5 | 40 | 936 | -20 | 4 | 42 | 916 | -19 | 7 | 91 |
| 929 | -21 | 3 | 286 | 941 | -21 | 6 | 36 | 935 | -19 | 5 | 43 | 914 | -21 | 7 | 81 |
| 931 | -21 | 2 | 275 | 941 | -20 | 5 | 30 | 933 | -20 | 5 | 37 | 913 | -22 | 8 | 66 |
| 933 | -22 | 2 | 272 | 940 | -19 | 4 | 30 | 932 | -19 | 6 | 42 | 911 | -22 | 6 | 73 |
| 936 | -22 | 2 | 298 | 940 | -23 | 4 | 52 | 930 | -19 | 6 | 47 | 910 | -18 | 6 | 70 |
| 937 | -23 | 1 | 352 | 939 | -23 | 4 | 52 | 927 | -19 | 5 | 71 | 908 | -17 | 6 | 88 |
| 939 | -22 | 4 | 16 | 938 | -21 | 4 | 37 | 924 | -19 | 9 | 88 | 908 | -14 | 5 | 74 |
| 940 | -21 | 4 | 39 | 937 | -21 | 4 | 39 | 919 |  |  | 90 |  |  | 5 | 60 |

MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-15.9$ Std dev $=6.9$ max $=-3.5$ at 40 GMT ON dAY 5 min $=-31.2$ at 1050 GMt on day 19
* theta (K) * MEAN $=262.80$
* PRESSURE (MB) * MEAN $=928.2$ STD DEV $=7.0$ MAX $=941.2$ at 120 GMT ON DAY 26 MIN $=907.3$ at 2120 GMT ON DAY 28
* WINDS (M/S) * MEAN $=4.8$ STD DEV $=1.9$ RESULTANT $=4.0$ FROM 50. CONSTANCY $=0.83$ MAX $=12.1$ FROM 85. AT 2200 GMT DAY 20
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ WINDS: $1.3 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT $\begin{array}{lllllllllllllrrr}10 & 12 & 22 & 30 & 12 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 3 & 1 & 5\end{array}$

MAR 97

HR PP TT VV $\begin{array}{rrr}\text { DAY } & 1\end{array}$
$\begin{array}{lllll}00 & 908 & -12 & 7 & 70\end{array}$
$\begin{array}{lllll}03 & 908 & -13 & 6 & 75\end{array}$
$\begin{array}{lllll}06 & 908 & -12 & 7 & 87\end{array}$
$\begin{array}{lllll}09 & 908 & -12 & 5 & 73\end{array}$
$\begin{array}{lllll}12 & 909 & -11 & 6 & 70\end{array}$
$\begin{array}{lllll}15 & 910 & -13 & 7 & 53\end{array}$
$\begin{array}{lllll}18 & 912 & -11 & 6 & 43\end{array}$
$\begin{array}{lllll}21 & 914 & -11 & 5 & 28\end{array}$
DAY 8
$\begin{array}{lllll}00 & 911 & -26 & 6 & 63\end{array}$
$\begin{array}{lllll}03 & 911 & -26 & 7 & 75\end{array}$
$\begin{array}{lllll}06 & 911 & -27 & 7 & 68\end{array}$ $\begin{array}{lllll}09 & 912 & -27 & 9 & 73\end{array}$ $\begin{array}{lllll}12 & 913 & -25 & 11 & 74\end{array}$ $\begin{array}{lllll}15 & 913 & -22 & 9 & 78\end{array}$ $\begin{array}{lllll}18 & 914 & -18 & 7 & 70\end{array}$ $\begin{array}{lllll}21 & 915 & -19 & 6 & 57\end{array}$ DAY 15
$\begin{array}{lllll}00 & 924 & -23 & 4 & 39\end{array}$
$\begin{array}{lllll}03 & 924 & -21 & 3 & 67\end{array}$
$\begin{array}{lllll}06 & 923 & -18 & 6 & 70\end{array}$
$\begin{array}{lllll}09 & 923 & -20 & 4 & 30\end{array}$
$\begin{array}{lllll}12 & 922 & -19 & 5 & 52\end{array}$
$\begin{array}{lllll}15 & 920 & -19 & 7 & 87\end{array}$
$\begin{array}{lllll}18 & 919 & -19 & 9 & 66\end{array}$
$\begin{array}{lllll}21 & 917 & -17 & 12 & 52\end{array}$ DAY 22
$\begin{array}{lllll}00 & 926 & -19 & 11 & 60\end{array}$ $\begin{array}{lllll}03 & 927 & -19 & 10 & 74\end{array}$
$\begin{array}{lllll}06 & 928 & -19 & 8 & 64\end{array}$
$\begin{array}{lllll}09 & 928 & -20 & 10 & 70\end{array}$
$\begin{array}{lllll}12 & 928 & -22 & 8 & 78\end{array}$
$\begin{array}{lllll}15 & 928 & -23 & 8 & 77\end{array}$
$\begin{array}{lllll}18 & 928 & -23 & 7 & 66\end{array}$
$\begin{array}{lllll}21 & 927 & -23 & 9 & 75\end{array}$ DAY 29
$\begin{array}{lllll}00 & 891 & -12 & 9 & 84\end{array}$
$\begin{array}{lllll}03 & 892 & -11 & 7 & 56\end{array}$
$\begin{array}{lllll}06 & 895 & -12 & 5 & 49\end{array}$
$\begin{array}{lllll}09 & 898 & -18 & 5 & 14\end{array}$
$\begin{array}{lllll}12 & 902 & -21 & 4 & 32\end{array}$
$\begin{array}{lllll}15 & 904 & -23 & 4 & 42\end{array}$
$\begin{array}{lllll}18 & 906 & -24 & 4 & 26\end{array}$
$\begin{array}{lllll}21 & 907 & -24 & 6 & 53\end{array}$

PP TT VV DD
$\begin{array}{rrr}\text { DAY } & 2 & \\ 916-13 & 6 & 22\end{array}$
$\begin{array}{llll}919 & -15 \quad 4 \quad 14\end{array}$
921-17 2320
$\begin{array}{llll}923 & -21 & 3 & 52\end{array}$
$\begin{array}{llll}924 & -20 & 3 & 95\end{array}$
$\begin{array}{llll}924 & -17 & 4 & 46\end{array}$
$\begin{array}{llll}923 & -17 & 3 & 35\end{array}$
$\begin{array}{llll}923 & -16 & 2 & 12\end{array}$ DAY 9
916-19 6 4
917-20 340
$\begin{array}{llll}918 & -22 & 4 & 68\end{array}$
$\begin{array}{llll}919 & -22 & 4 & 37\end{array}$
$\begin{array}{llll}921 & -23 & 3 & 19\end{array}$
$\begin{array}{llll}922 & -24 & 3 & 54\end{array}$
$\begin{array}{llll}923 & -25 \quad 5 & 357\end{array}$
$\begin{array}{llll}924 & -27 & 5 & 12\end{array}$ DAY 16
917-17 $8 \quad 43$
$\begin{array}{llll}916 & -18 & 3 & 340\end{array}$
917-20 2247
916-21 2217
915-23 3150
913-25 2116
$\begin{array}{llll}912 & -28 & 3 & 106\end{array}$
911 -27 3109 DAY 23
$\begin{array}{llll}927 & -22 & 8 & 71\end{array}$
$\begin{array}{llll}926 & -23 & 5 & 106\end{array}$
$\begin{array}{llll}926 & -24 & 75\end{array}$
$\begin{array}{llll}926 & -25 & 4 & 115\end{array}$
$\begin{array}{llll}925 & -26 & 6 & 80\end{array}$
$\begin{array}{llll}925 & -26 & 7 & 88\end{array}$
$\begin{array}{llll}925 & -25 & 7 & 84\end{array}$
$\begin{array}{llll}925 & -27 & 5 & 112\end{array}$ DAY 30
$\begin{array}{llll}908 & -22 & 9 & 75\end{array}$
$\begin{array}{llll}908 & -20 & 10 & 64\end{array}$
$\begin{array}{llll}910 & -22 & 62\end{array}$
$\begin{array}{llll}911 & -24 & 7 & 73\end{array}$
$\begin{array}{llll}910 & -24 & 10 & 87\end{array}$
$\begin{array}{llll}906 & -23 & 14 & 85\end{array}$
$\begin{array}{llll}906 & -21 & 12 & 70\end{array}$
911-23 6330

| PP | TT | VV | DD |
| ---: | ---: | ---: | ---: |
| DAY | 3 |  |  |
| 922 | -16 | 2 | 30 |
| 921 | -17 | 4 | 56 |
| 921 | -20 | 2 | 67 |
| 920 | -20 | 3 | 57 |
| 919 | -19 | 5 | 64 |
| 919 | -19 | 6 | 70 |
| 918 | -20 | 6 | 87 |
| 917 | -18 | 9 | 67 |

## DAY 10

$\begin{array}{llll}924 & -26 & 6 & 18\end{array}$
$\begin{array}{llll}923 & -26 & 3 & 57\end{array}$
$\begin{array}{llll}922 & -27 & 3 & 106\end{array}$
$\begin{array}{llll}920 & -28 & 3 & 57\end{array}$
$\begin{array}{lll}917 & -28 & 3\end{array} 88$
$\begin{array}{llll}914 & -31 & 5 & 85\end{array}$
$\begin{array}{llll}911 & -29 & 64\end{array}$
908-28 $6 \quad 98$
DAY 17
$910-25 \quad 2127$
$\begin{array}{llll}910 & -26 & 3119\end{array}$
910-26 2150
$\begin{array}{lll}911-26 & 2125\end{array}$
$\begin{array}{llll}913 & -28 & 2105\end{array}$
$\begin{array}{llll}915 & -33 & 5 & 28\end{array}$
$\begin{array}{llll}918 & -33 & 6 & 49\end{array}$
920 $-35 \quad 5 \quad 35$
DAY 24
$\begin{array}{llll}926 & -27 & 6 & 108\end{array}$
926-29 6113
$\begin{array}{llll}927 & -32 & 5 & 101\end{array}$
$\begin{array}{llll}927 & -32 & 5 & 101\end{array}$
$\begin{array}{llll}928 & -31 & 7 & 73\end{array}$
$\begin{array}{llll}929 & -32 & 8 & 67\end{array}$
$\begin{array}{llll}930 & -33 & 8 & 67\end{array}$
$\begin{array}{llll}931 & -34 & 9 & 56\end{array}$ DAY 31
915-25 7323
918-28 2316
$\begin{array}{llll}918 & -31 & 3 & 52\end{array}$
$\begin{array}{llll}918 & -33 & 4 & 95\end{array}$
$\begin{array}{llll}915 & -31 & 8 & 101\end{array}$
$\begin{array}{llll}908 & -26 & 14 & 91\end{array}$
$\begin{array}{llll}903 & -22 & 16 & 73\end{array}$

PP TT VV DD PP TT VV DD

$$
\text { DAY } 4
$$

$\begin{array}{llll}915 & -17 & 8 & 75\end{array}$
$\begin{array}{llll}914 & -19 & 7 & 84\end{array}$
$\begin{array}{llll}913 & -20 & 8 & 71\end{array}$
$\begin{array}{llll}911 & -20 & 7 & 71\end{array}$
$\begin{array}{llll}909 & -21 & 7 & 92\end{array}$
$\begin{array}{llll}909 & -19 & 7 & 70\end{array}$
909 $-18 \quad 6 \quad 64$
$\begin{array}{llll}910 & -25 & 9 & 50\end{array}$
DAY 11
$\begin{array}{llll}907 & -27 & 5 & 106\end{array}$
$\begin{array}{llll}906 & -28 & 5 & 120\end{array}$
$\begin{array}{llll}906 & -31 & 5 & 74\end{array}$
$\begin{array}{llll}905 & -30 & 7 & 78\end{array}$
$\begin{array}{llll}905 & -30 & 7 & 78\end{array}$
$\begin{array}{llll}903 & -29 & 7 & 82\end{array}$
901-27 $10 \quad 90$
898-20 7122

## DAY 18

$\begin{array}{llll}922 & -32 & 2 & 43\end{array}$
$\begin{array}{llll}923 & -34 & 3 & 54\end{array}$
$\begin{array}{llll}924 & -38 & 4 & 56\end{array}$
$\begin{array}{llll}924 & -38 & 5 & 42\end{array}$
$\begin{array}{llll}925 & -35 & 6 & 49\end{array}$
$\begin{array}{llll}925 & -35 & 4 & 49\end{array}$
$\begin{array}{llll}924 & -34 & 5 & 50\end{array}$
$\begin{array}{llll}925 & -33 & 4 & 59\end{array}$
DAY 25
$\begin{array}{llll}932 & -34 & 8 & 66\end{array}$
$\begin{array}{llll}933 & -33 & 7 & 74\end{array}$
$\begin{array}{llll}935 & -34 & 4 & 57\end{array}$
$\begin{array}{llll}935 & -34 & 4 & 68\end{array}$
$\begin{array}{llll}936 & -34 & 5 & 61\end{array}$
$\begin{array}{llll}936 & -34 & 7 & 70\end{array}$
$\begin{array}{llll}935 & -32 & 7 & 53\end{array}$
$\begin{array}{llll}934 & -30 & 8 & 64\end{array}$
$\begin{array}{rrrr}\text { PP TT VV DD } \\ \text { DAY } & 5 & \end{array}$
$\begin{array}{llll}912 & -22 & 8 & 37\end{array}$
$\begin{array}{lllll}913 & -23 & 10 & 43\end{array}$
$\begin{array}{llll}913 & -24 & 8 & 60\end{array}$
$\begin{array}{llll}913 & -22 & 6 & 67\end{array}$
913-20 6 6 75
912-18 $10 \quad 91$
$\begin{array}{llll}910 & -19 & 12104\end{array}$
$\begin{array}{llll}909 & -17 & 12 & 97\end{array}$ DAY 12
894-20 12106
892-20 12112
$\begin{array}{llll}891 & -20 & 14 & 112\end{array}$
892-19 6132
$\begin{array}{llll}892 & -24 & 7 & 73\end{array}$
892-19 $\quad 8 \quad 59$
892-15 $7 \quad 59$
$\begin{array}{llll}893 & -13 & 5 & 57\end{array}$ DAY 19
$\begin{array}{llll}925 & -3240\end{array}$
$\begin{array}{llll}925 & -31 & 5 & 47\end{array}$
$\begin{array}{llll}925 & -31 & 5 & 63\end{array}$
$\begin{array}{llll}925 & -33 & 4 & 66\end{array}$
$\begin{array}{llll}925 & -34 & 7 & 71\end{array}$
$\begin{array}{llll}924 & -35 & 6 & 84\end{array}$
$\begin{array}{llll}924 & -35 & 7 & 85\end{array}$
923-33 7. 81
DAY 26
$\begin{array}{llll}931 & -29 & 8 & 68\end{array}$
$\begin{array}{llll}928 & -27 & 7 & 70\end{array}$
$\begin{array}{llll}926 & -26 & 8 & 70\end{array}$
$\begin{array}{llll}924 & -25 & 6 & 61\end{array}$
$\begin{array}{llll}922 & -24 & 4 & 64\end{array}$
$\begin{array}{llll}921 & -26 & 3 & 37\end{array}$
$\begin{array}{llll}920 & -29 & 3 & 64\end{array}$
$920-31 \quad 4 \quad 80$


* TEMPERATURE (C) * MEAN $=-23.4$ STD DEV $=6.6$ MAX $=-8.8$ AT 1440 GMT ON DAY 13 MIN $=-38.9$ AT 820 GMT ON DAY 18
* THETA (K) * MEAN $=256.20$
* PRESSURE (MB) * MEAN $=915.2$ STD DEV $=10.2$ MAX $=935.9$ AT 1330 GMT ON DAY 25 MIN = 889.1 AT 1530 GMT ON DAY 28
* WINDS (M/S) * MEAN $=6.3$ STD DEV $=3.1$ RESULTANT $=5.7$ FROM 71. CONSTANCY $=0.90$ MAX $=18.1$ FROM 84. AT 1650 GMT DAY 30 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
 PERCENT: WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
1 & 7 & 21 & 39 & 15 & 11 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1
\end{array}
$$

| HR | PP |  | VV | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD | PP |  |  | DD |  |  |  | DD |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | day | 1 |  |  | DAY | 2 |  |  | DAY | 3 |  |  |  | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | day | 7 |  |
| 00 | 900 | -20 | 11 | 64 | 916 | -26 | 8 | 80 | 918 | -21 | 11 | 61 | 921 | -22 | 12 | 85 | 914 | -15 | 12 | 82 | 921 | -16 | 16 | 77 | 910 | -14 | 4 | 68 |
| 03 | 901 | -18 | 6 | 49 | 915 | -24 | 9 | 74 | 919 | -22 | 13 | 61 | 921 | -22 | 9 | 94 | 911 | -9 | 16 | 74 | 920 | -16 | 13 | 63 | 911 | -15 | 16 | 66 |
| 06 | 905 | -21 | 4 | 324 | 914 | -24 | 12 | 56 | 920 | -22 | 13 | 63 | 920 | -23 | 12 | 91 | 910 | -10 | 21 | 85 | 920 | -17 | 11 | 78 | 913 | -16 | 3 | 67 |
| 09 | 908 | -23 | 6 | 15 | 914 | -26 | 10 | 57 | 921 | -22 | 13 | 73 | 921 | -22 | 10 | 71 | 913 | -10 | 22 | 63 | 919 | -15 | 10 | 60 | 914 | -15 | 4 | 53 |
| 12 | 908 | -21 | 10 | 84 | 914 | -25 | 11 | 66 | 922 | -23 | 12 | 80 | 920 | -20 | 12 | 78 | 920 | -12 | 15 | 64 | 917 | -11 | 12 | 75 | 915 | -15 | 4 | 68 |
| 15 | 910 | -23 | 5 | 30 | 915 | -24 | 11 | 61 | 923 | -23 | 13 | 70 | 919 | -20 | 10 | 105 | 921 | -14 | 14 | 68 | 914 | -14 | 14 | 73 | 916 | -18 | 8 | 47 |
| 18 | 913 | -28 | 5 | 78 | 915 | -24 | 12 | 59 | 923 | -24 | 14 | 81 | 918 | -19 | 11 | 99 | 922 | -15 | 14 | 78 | 912 | -14 | 16 | 73 | 918 | -19 | 6 | 37 |
| 21 | 915 | -26 | 6 | 68 | 917 | -23 | 11 | 61 | 923 | -24 | 11 | 75 | 916 | -16 | 11 | 91 | 922 | -15 | 13 | 77 | 910 | -13 | 18 | 68 | 919 | -22 | 5 | 45 |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 4 |  |
| 00 | 920 | -24 | 4 | 78 | 928 | -34 | 8 | 67 | 919 | -36 | 7 | 75 | 910 | -34 | 10 | 80 | 907 | -35 | 10 | 60 | 914 | -33 | 8 | 75 | 910 | -34 | 0 | 57 |
| 03 | 922 | -28 | 6 | 36 | 926 | -33 | 8 | 70 | 918 | -37 | 8 | 78 | 909 | -33 | 11 | 75 | 909 | -40 | 12 | 70 | 914 | -31 | 7 | 75 | 911 | -36 | 7 | 67 |
| 06 | 924 | -30 | 6 | 49 | 925 | -34 | 6 | 67 | 917 | -37 | 7 | 73 | 907 | -34 | 11 | 82 | 910 | -39 | 12 | 60 | 914 | -29 | 10 | 75 | 911 | -38 | 5 | 63 |
| 09 | 926 | -32 | 7 | 53 | 924 | -34 | 6 | 70 | 916 | -37 | 7 | 73 | 906 | -34 | 12 | 73 | 911 | -36 | 10 | 67 | 914 | -31 | 8 | 81 | 911 | -36 | 7 | 59 |
| 12 | 927 | -29 | 7 | 39 | 922 | -34 | 7 | 80 | 915 | -37 | 8 | 74 | 906 | -34 | 9 | 74 | 913 | -32 | 7 | 77 | 913 | -31 | 7 | 88 | 911 | -35 | 11 | 66 |
| 15 | 928 | -31 | 6 | 54 | 921 | -35 | 8 | 68 | 914 | -36 | 8 | 64 | 906 | -33 | 8 | 77 | 913 | -29 | 8 | 78 | 912 | -30 | 6 | 68 | 911 | -33 | 10 | 70 |
| 18 | 929 | -34 | 6 | 63 | 920 | -35 | 8 | 77 | 913 | -35 | 8 | 71 | 906 | -33 | 8 | 92 | 913 | -29 | 9 | 91 | 910 | -33 | 11 | 82 | 912 | -33 | 12 | 73 |
| 21 | 928 | -35 | 7 | 61 | 919 | -35 | 7 | 59 | 911 | -35 | 9 | 75 | 906 | -33 | 9 | 88 | 913 | -32 | 11 | 80 | 910 | -33 | 11 | 74 | 913 | -31 | 15 | 78 |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |
| 00 | 914 | -30 | 14 | 75 | 921 | -31 | 9 | 54 | 923 | -34 | 5 | 53 | 937 | -38 | 8 | 60 | 939 | -19 | 9 | 101 | 940 | -33 | 5 | 95 | 933 | -34 | 9 | 94 |
| 03 | 916 | -29 | 15 | 81 | 921 | -32 | 4 | 32 | 923 | -35 | 6 | 45 | 938 | -38 | 5 | 77 | 939 | -21 | 6 | 123 | 939 | -31 | 7 | 71 | 932 | -34 | 9 | 97 |
| 06 | 917 | -28 | 15 | 87 | 921 | -32 | 3 | 85 | 924 | -36 | 6 | 36 | 939 | -37 | 4 | 54 | 939 | -21 | 8 | 95 | 938 | -31 | 7 | 64 | 931 | -35 | 9 | 99 |
| 09 | 918 | -28 | 14 | 90 | 921 | -32 | 3 | 53 | 925 | -36 | 9 | 59 | 940 | -36 | 2 | 81 | 940 | -25 | 3 | 78 | 937 | -29 | 10 | 64 | 930 | -34 | 9 | 88 |
| 12 | 918 | -28 | 14 | 94 | 922 | -33 | 3 | 45 | 928 | -37 | 11 | 57 | 939 | -35 | 2 | 192 | 940 | -25 | 5 | 73 | 936 | -33 | 8 | 63 | 930 | -34 | 8 | I |
| 15 | 918 | -27 | 15 | 92 | 921 | -29 | 0 | 0 | 931 | -38 | 10 | 52 | 939 | -20 | 8 | 102 | 940 | -27 | 5 | 63 | 935 | -31 | 10 | 101 | 930 | -35 | 10 | 70 |
| 18 | 919 | -29 | 14 | 90 | 922 | -33 | 3 | 19 | 934 | -38 | 6 | 81 | 939 | -19 | 7 | 119 | 941 | -30 | 3 | 50 | 935 | -32 | 10 | 75 | 930 | -37 | 10 | 68 |
| 21 | 921 | -32 | 9 | 53 | 923 | -33 | 4 | 71 | 935 | -38 | 8 | 52 | 939 | -19 | 7 | 105 | 941 | -30 | 5 | 111 | 934 | -33 | 11 | 97 | 930 | -38 | 9 | 66 |
|  |  | DAY | 22 |  |  |  | 23 |  |  |  | 24 |  |  | DAY |  |  |  |  | 26 |  |  | DAY | 27 |  |  | DAY | 28 |  |
| 00 | 930 | -38 | 12 | 68 | 931 | -41 | 7 | 32 | 916 | -28 | 9 | 82 | 932 | -32 | 9 | 61 | 913 | -15 | 9 | 338 | 912 | -24 | 3 | 84 | 923 | -32 | 7 | 11 |
| 03 | 930 | -39 | 11 | 66 | 931 | -42 | 7 | 43 | 914 | -25 | 11 | 77 | 929 | -30 | 11 | 78 | 918 | -21 | 8 | 324 | 910 | -27 | 4 | 75 | 925 | -34 | 5 | 60 |
| 06 | 931 | -39 | 10 | 71 | 932 | -41 | 8 | 45 | 912 | -22 | 11 | 68 | 926 | -29 | 11 | 77 | 922 | -23 | 3 | 1 | 908 | -25 | 3 | 98 | 924 | -37 | 5 | 106 |
| 09 | 930 | -38 | 11 | 64 | 931 | -41 | 9 | 73 | 913 | -20 | 8 | 47 | 920 | -26 | 15 | 81 | 923 | -23 | 2 | 74 | 906 | -24 | 3 | 84 | 920 | -37 | 4 | 120 |
| 12 | 930 | -38 | 10 | 68 | 928 | -38 | 6 | 88 | 917 | -25 | 10 | 315 | 916 | -24 | 13 | 75 | 919 | -23 | 5 | 87 | 905 | -23 | 4 | 49 | 915 | -36 | 6 | 8 |
| 15 | 929 | -35 | 10 | 60 | 924 | -36 | 9 | 63 | 924 | -29 | 7 | 343 | 912 | -21 | 14 | 71 | 916 | -21 | 3 | 92 | 906 | -27 | 6 | 56 | 912 |  | 8 |  |
| 18 | 929 | -34 | 8 | 40 | 921 | -35 | 10 | 84 | 930 | -32 | 8 | 23 | 910 | -19 | 11 | 67 | 914 | -20 | 3 | 122 | 909 | -26 | 5 | 21 | 910 | -35 | 5 | 8 |
| 21 | 929 | -36 | 7 | 28 | 919 | -32 | 10 | 66 | 932 | -34 | 9 | 54 | 910 | -15 | 8 | 45 | 913 | -22 | 3 | 87 | 916 | -29 | 7 | 327 | 910 |  | 4 | 40 |
|  |  |  | 29 |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 910 | -42 | 5 | 67 | 906 | -37 | 7 | 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 912 | -45 | 6 | 63 | 907 | -34 | 8 | 63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 913 | -42 | 9 | 57 | 909 | -30 | 5 | 57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 914 | -41 | 8 | 80 | 911 | -28 | 5 | 33 |  |  |  |  |  |  |  | . |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 912 | -39 | 6 | 91 | 911 | -29 | 4 | 49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 908 | -38 | 7 | 102 | 912 | -29 | 1 | 46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 906 | -39 | 6 | 63 | 913 | -29 | 2 | 143 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 906 | -39 | 4 | 61 | 917 | -31 | 4 | 340 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^6]* TEMPERATURE (C) * MEAN $=-28.8$ STD DEV $=7.7$ MAX $=-8.9$ AT 250 GMT ON DAY 5 MIN $=-44.8$ AT 230 GMT ON DAY 29
* THETA (K) * MEAN $=250.26$
* PRESSURE (MB) * MEAN $=919.6$ STD DEV $=9.5$ MAX $=940.8$ AT 1730 GMT ON DAY 19 MIN $=899.4$ AT 50 GMT ON DAY 1
* WINDS (M/S) * MEAN $=8.6$ STD DEV $=3.6$ RESULTANT $=7.9$ FROM 70. CONSTANCY $=0.93$ MAX $=24.0$ FROM 82. AT 810 GMT DAY 5 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$


PERCENT

$$
\begin{array}{llllllll}
1 & 4 & 14 & 51 & 21 & 5 & 0 & 0
\end{array}
$$



00
03
06
09
12
15
18
21

* TEMPERATURE ( $C$ ) * MEAN $=-30.6$ STD DEV $=8.8$ MAX $=-11.4$ AT 1540 GMT ON DAY 16 MIN $=-45.8$ AT 540 GMT ON dAY 12
* theta (K) * MEAN $=249.12$
* PRESSURE (MB) * MEAN $=910.4$ STD DEV $=7.6 \mathrm{MAX}=930.1 \mathrm{AT} 420$ GMT ON DAY 17 MIN $=891.4$ AT 50 GMT ON DAY 4
* WINDS (M/S) * MEAN $=9.5$ STD DEV $=2.8$ RESULTANT $=9.1$ FROM 75. CONSTANCY $=0.96$ MAX $=20.3$ FROM 85. AT 2220 GMT DAY 3 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $35.5 \%$ PRESSURE: $35.5 \%$ WINDS: $35.5 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll}\text { PERCENT } & 0 & 3 & 10 & 49 & 34 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1\end{array}$


MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN $=$ ****** at 0 GMT ON DAY 0
* theta (K) * mean $=0.00$
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX $=* * * * * * ~ A T \quad 0$ GMT ON DAY 0 MIN =****** AT O GMT ON DAY $O$
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $89.2 \%$ PRESSURE: $89.2 \%$ WINDS: $89.2 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 60+ \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

JUL 97
HR PP TT VV DD DAY 1
00
03
06
09
12
15
18
$\begin{array}{llll}914 & -25 & 8 & 75\end{array}$ DAY 8
$\begin{array}{llll}914 & -8 & 9 & 30\end{array}$
$\begin{array}{llll}915 & -9 & 12 & 39\end{array}$
$\begin{array}{llll}930 & -27 & 8 & 73\end{array}$
914-13 $14 \quad 32$
$\begin{array}{llllllll}925 & -28 & 8 & 64 & 893 & -26 & 11 & 95\end{array}$

DAY 15
DAY 16
$\begin{array}{llll}900 & -35 & 14 & 33\end{array}$
03
06
09
12
15
18
21
DAY 22
00
03
06
09
12
15
18 21

DAY 29
DAY 30
DAY 31

| PP |  | V | DD | PP | TT | vV | DD | PP | It | WV | DD | PP | tt | W | DD | PP | TT | WV | DD | PP | TT |  | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |  | dar | 4 |  |  | DAY | 5 |  |  | DAY | 6 |  |  | DAY | 7 |  |
| 915 | -21 | 8 | 57 | 918 | -19 | 14 | 74 | 921 | -23 | 6 | 71 | 931 | -30 | 8 | 73 | 923 | -32 | 7 | 82 | 912 | -23 | 8 | 35 |
| 917 | -20 | 7 | 45 | 913 | -15 | 14 | 82 | 924 | -26 | 10 | 70 | 926 | -30 | 6 | 123 | 923 | -29 | 11 | 81 | 915 | -23 | 7 | 68 |
| 918 | -24 | 11 | 66 | 911 | -14 | 14 | 60 | 926 | -27 | 10 | 84 | 920 | -26 | 9 | 104 | 921 | -25 | 7 | 105 |  |  |  |  |
| 920 | -24 | 9 | 63 | 910 | -15 | 13 | 61 | 929 | -26 | 7 | 74 | 914 | -20 | 7 | 109 | 917 | -24 | 13 | 90 | 916 | -15 | 10 | 64 |
| 923 | -22 | 11 | 54 | 910 | -15 | 11 | 54 | 930 | -26 | 7 | 67 | 909 | -19 | 4 | 63 | 913 | -22 | 11 | 70 | 914 | -13 | 10 | 80 |
| 924 | -21 | 11 | 68 | 912 | -17 | 9 | 56 |  |  |  |  | 910 | -30 | 6 | 21 | 911 | -21 | 10 | 81 | 911 | -13 | 10 | 71 |
| 924 | -24 | 9 | 68 | 914 | -20 | 7 | 54 | 933 | -28 | 10 | 59 | 914 | -32 | 9 | 30 | 909 | -20 | 11 | 88 | 911 | -11 | 8 | 43 |
| 921 | -22 | 12 | 90 | 917 | -22 | 6 | 52 | 933 | -30 | 10 | 75 | 921 | -33 | 6 | 54 | 909 | -18 | 12 | 74 |  |  |  |  |
|  | DAY | 9 |  |  | dAY | 10 |  |  | DAY | 11 |  |  | DAY | 12 |  |  | DAY | 13 |  |  | DAY | 14 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 927 | -42 | 4 | 37 |  |  |  |  |
|  |  |  |  | 915 | -32 | 8 | 80 |  |  |  |  | 918 | -32 | 3 | 298 | 929 | -38 | 6 | 46 |  |  |  |  |
|  |  |  |  | 909 | -30 | 14 | 74 | 878 | -23 | 9 | 52 | 921 | -34 | 2 |  |  |  |  |  |  |  |  |  |
| 930 | -27 | 8 | 73 |  |  |  |  | 884 | -28 | 13 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 925 | -28 | 8 | 64 | 893 | -26 | 11 | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 902 | -34 | 10 | 29 | 924 | -38 | 3 | 265 |  |  |  |  |  |  |  |  |
|  | DAY | 16 |  |  | DAY | 17 |  |  | DAY | 18 |  |  | DAY | 19 |  |  | DAY | 20 |  |  | DAY | 21 |  |



* TEMPERATURE (C) * MEAN $=-10.2$ StD dev $=2.1$ maX $=-5.4$ AT 40 GMT ON DAY 19 MIN $=-16.9$ AT 1410 GMT ON DAY 25
* THETA (K) * MEAN $=272.58$
* PRESSURE (MB) * MEAN $=882.1$ STD DEV $=3.9$ MAX $=890.2$ AT 1250 GMT ON DAY 31 MIN $=874.2$ AT 510 GMT ON DAY 8
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ from 0 . CONSTANCY $=0.00 \mathrm{mAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$
$\begin{array}{lrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ $\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { UNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

|  | 97 |  |
| :---: | :---: | :---: |
| HR | PP | TT W |
|  |  | DAY |
| 00 | 889 | -8 |
| 03 | 887 | -7 |
| 06 | 887 | -8 |
| 09 | 887 | -9 |
| 12 | 888 | -9 |
| 15 | 888 | -7 |
| 18 |  |  |
| 21 | 889 | -9 |
|  |  | DAY |
| 00 | 878 | -10 |
| 03 | 878 | -12 |
| 06 | 879 | -14 |
| 09 | 880 | -14 |
| 12 | 880 | -17 |
| 15 | 880 | -18 |
| 18 | 879 | -18 |
| 21 | 879 | -19 |
|  |  | DAY 15 |
| 00 | 878 | -20 |
| 03 | 878 | -21 |
| 06 | 878 | -23 |
| 09 | 878 | -23 |
| 12 | 879 | -23 |
| 15 | 880 | -23 |
| 18 | 880 | -22 |
| 21 | 880 | -21 |
|  |  | DAY 22 |
| 00 | 872 | -14 |
| 03 | 872 | -11 |
| 06 | 873 | -12 |
| 09 | 873 | -11 |
| 12 | 874 | -12 |
| 15 | 875 | -13 |
| 18 | 875 | -12 |
| 21 | 875 | -13 |

MAR 97


* TEMPERATURE (C)* MEAN $=-24.5$ STD DEV $=6.8$ MAX $=-10.6$ AT 1600 GMT ON DAY 13 MIN $=-41.6$ AT 450 GMT ON DAY 19
* theta (K) * MEAN $=258.87$
* PRESSURE (MB) * MEAN $=869.1$ STD DEV $=8.1$ MAX $=885.5$ AT 1300 GMT ON DAY 25 MIN $=848.7$ AT 1200 GMT ON DAY 12
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0. CONSTANCY $=0.00$ MAX $=$ ***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $100.0 \%$





| PP |  |
| :---: | :---: |
| 878 | -24 |
| 878 | -23 |
| 877 | -22 |
| 878 | -22 |
| 878 | -21 |
| 877 | -19 |
| 875 | -18 |
| 875 | -19 |
|  | DAY 11 |
| 864 | -32 |
| 862 | -32 |
| 861 | -31 |
| 860 | -31 |
| 860 | -31 |
| 860 | -31 |
| 860 | -30 |
| 861 | -29 |
|  | DAY 18 |
| 888 | -19 |
| 889 | -18 |
| 890 | -18 |
| 890 | -19 |
| 891 | -19 |
| 891 | -19 |
| 893 | -19 |
| 893 | -19 |
|  | DAY 25 |
| 883 | -35 |
| 882 | -35 |
| 880 | -33 |
| 877 | -30 |
| 873 | -28 |
| 869 | -27 |
| 867 | -24 |
| 865 | -22 |




DAY 30
861-28
863-28
864-26
865-26
866-25
867-24
867-25
868-25

* TEMPERATURE (C) * MEAN $=-26.2$ STD dEV $=6.6$ MAX $=-12.4$ AT 520 GMT ON DAY 6 MIN $=-38.5$ AT 700 GMT ON DAY 23
* theta (K) * MEAN $=256.70$
* PRESSURE (MB) * MEAN $=873.2$ STD DEV $=8.4$ MAX $=893.0$ at 2050 GMT ON DAY 18 MIN $=857.1$ at 200 gMt ON dAY 1 * WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00 \mathrm{mAX}=$ ***** FROM***** at 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 $8-10 \quad 10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$ PERCENT: $\quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$ WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

MAY 97


* TEMPERATURE (C) * MEAN $=-26.5$ STD DEV $=7.2$ MAX $=-11.8$ AT 10 GMT ON DAY 29 MIN $=-43.6$ AT 830 GMT ON DAY 12
* THETA (K) * MEAN $=257.08$
* PRESSURE (MB) * MEAN $=865.3$ STD DEV $=7.1$ MAX $=884.1$ AT 730 GMT ON DAY 17 MIN $=847.7$ AT 500 GMT ON DAY 23
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$




MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-25.2$ STD DEV $=6.8$ MAX $=-11.6$ AT 330 GMT ON DAY 13 MIN $=-39.6$ AT 510 GMT ON DAY 28
* THETA (K) * MEAN $=257.36$
* PRESSURE (MB) * MEAN $=877.8$ STD DEV $=8.9$ MAX $=901.9$ at 40 GMT ON DAY 22 MIN $=852.0$ AT 550 GMT ON DAY 9

* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: 0.4 \% WINDS: 100.0 \%
 $\begin{array}{lccccccccccccccc}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW }\end{array}$ $\begin{array}{lllllllllllllllll} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

* temperature ( $C$ ) * mean $=-25.8$ Std dev $=5.9$ max $=-7.6$ at 20 GMT ON dAY 8 min $=-34.8$ at 220 GMt ON dAY 19
* theta (K) * MEAN $=257.57$
* PRESSURE (MB) * MEAN $=868.7$ STD DEV $=9.9$ MAX $=886.4$ AT 1810 GMT ON DAY 4 MIN $=833.9$ AT 200 GMT ON DAY 11
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=\star * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $39.1 \%$ PRESSURE: $39.1 \%$ WINDS: 100.0 \% $\begin{array}{lrrrrrrrrrrrrrrrrrrr}\text { WIND SPEED (M/S): } & 0-2 & 2-4 & 4-6 & 6-8 & 8-10 & 10-12 & 12-14 & 14-16 & 16-18 & 18-20 & 20-25 & 25-30 & 30-35 & 35-40 & 40-45 & 45-50 & 50-55 & 55-60 & 6 \\ \text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ PERCENT: $\quad$ WIND DIRECTION: $\quad$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llrrrrrrrrrrrrrr}\text { PIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { PERCNT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

HR PP TT VV DD
DAY 1
00

DAY 16
DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14

PP TT VV DD DAY 5

PP TT VV DD DAY 6

PP TT VV DD DAY 7

03

06

09
12
15
18
21
DAY 8
00
03 06
09
12

15

18 21

DAY 15



5 21
.


00
03

06
09
12
15
18
21
DAY 22
00
03
06
09
12
15
18 21

00
03
06

09
12
15
18
21

* TEMPERATURE (C) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT O GMT ON DAY 0
* THETA (K) * MEAN = 0.00
* PRESSURE (MB) * MEAN $=0.0$ STD DEV $=0.0$ MAX =****** AT 0 GMT ON DAY 0 MIN =****** AT OMT ON DAY 0
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $98.3 \%$ PRESSURE: $98.3 \%$ WINDS: $100.0 \%$

 $\begin{array}{lrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP |  | $\begin{array}{r} \text { VV } \\ 1 \end{array}$ | DD | PP |  | $\begin{array}{r} \text { VV } \\ 2 \end{array}$ | DD | PP | $\begin{array}{rr} \text { TT VV } \\ \text { DAY } & 3 \end{array}$ | DD |  | TT VV DAY | DD |  | $\begin{array}{rr} \text { TT } & \text { DV } \\ \text { DAY } & \end{array}$ | DD | PP | $\begin{array}{r} \text { TT VV } \\ \text { DAY } 6 \end{array}$ | DD |  | $\text { DAY } 7$ | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 870 | -18 |  |  |  |  |  |  |  |  |  |  |  |  | 872 | -16 |  | 871 | -17 |  | 882 | -16 |  |
| 03 | 870 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 882 | -17 |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 883 | -18 |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  | 872 | -17 |  | 871 | -16 |  | 880 | -14 |  |  |  |  |
|  |  | DAY | 8 |  |  | DAY | 9 |  |  | DAY 10 |  |  | DAY 11 |  |  | DAY 12 |  |  | DAY 13 |  |  | DAY 14 |  |
| 00 |  |  |  |  | 877 | -24 |  |  | 869 | -25 |  | 879 | -20 |  | 884 | -23 |  | 875 | -24 |  | 875 | -22 |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 883 | -24 |  | 875 | -24 |  | 876 | -22 |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 874 | -25 |  | 877 | -22 |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 873 | -24 |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -25 |  | 873 | -21 |  | 878 | -25 |  |
| 18 | 877 | -22 |  |  | 871 | -27 |  |  |  |  |  |  | -22 |  | 877 | -25 |  | 873 | -18 |  | 879 | -26 |  |
| 21 | 877 | -24 |  |  | 870 | -25 |  |  | 877 | -20 |  | 885 |  |  | 876 | -24 |  | 874 | -21 |  | 879 | -26 |  |
|  |  | DAY | 15 |  |  | DAY | 16 |  |  | DAY 17 |  |  | DAY 18 |  |  | DAY 19 |  |  | DAY 20 |  |  | DAY 21 |  |
| 00 | 879 | -25 |  |  | 873 | -26 |  |  | 876 | -26 |  | 870 | -26 |  | 871 | -25 |  | 871 | -24 |  | 868 | -24 |  |
| 03 | 879 | -28 |  |  | 874 | -26 |  |  | 875 | -26 |  | 869 | -26 |  | 872 | -25 |  | 871 | -25 |  | 867 | -25 |  |
| 06 | 878 | -28 |  |  | 874 | -27 |  |  | 875 | -28 |  | 869 | -28 |  | 872 | -26 |  | 870 | -27 |  | 867 | -26 |  |
| 09 |  |  |  |  | 875 | -27 |  |  | 874 | -30 |  | 869 | -28 |  | 872 | -25 |  | 870 | -28 |  | 866 | -26 |  |
| 12 | 878 | -27 |  |  | 875 | -27 |  |  | 873 | -30 |  | 869 | -28 |  | 872 | -26 |  | 870 | -28 |  | 865 | -25 |  |
| 15 | 877 | -27 |  |  | 875 | -27 |  |  | 872 | -29 |  | 870 | -28 |  | 872 | -25 |  | 869 | -27 |  | 864 | -25 |  |
| 18 | 876 | -25 |  |  | 876 | -28 |  |  | 871 | -27 |  | 871 | -27 |  | 872 | -24 |  | 869 | -24 |  | 863 | -25 |  |
| 21 | 874 | -25 |  |  | 877 | -26 |  |  | 871 | -26 |  | 871 | -26 |  | 872 | -24 |  | 868 | -24 |  | 863 | -23 |  |
|  |  | DAY |  |  |  | DAY | 23 |  |  | DAY 24 |  |  | DAY 25 |  |  | DAY 26 |  |  | DAY 27 |  |  | DAY 28 |  |
| 00 | 863 | -24 |  |  | 874 | -18 |  |  | 867 | -14 |  | 866 | -17 |  | 867 | -16 |  | 869 | -21 |  | 864 | -20 |  |
| 03 | 863 | -25 |  |  | 873 | -19 |  |  | 861 | -13 |  | 862 | -16 |  | 869 | -20 |  | 866 | -21 |  | 864 | -21 |  |
| 06 | 865 | -26 |  |  | 871 | -19 |  |  | 861 | -11 |  | 861 | -18 |  | 871 | -19 |  | 864 | -21 |  | 864 | -22 |  |
| 09 | 868 | -23 |  |  | 870 | -19 |  |  | 866 | -17 |  | 860 |  |  | 872 | -19 |  | 864 | -20 |  | 863 | -23 |  |
| 12 | 871 | -22 |  |  | 871 | -18 |  |  | 870 | -19 |  | 860 | -22 |  | 873 | -19 |  | 863 | -20 |  | 862 | -23 |  |
| 15 | 873 | -20 |  |  | 874 | -15 |  |  | 872 | -20 |  | 861 | -20 |  | 873 | -19 |  | 863 | -16 |  | 862 | -23 |  |
| 18 | 874 | -19 |  |  | 875 | -14 |  |  | 871 | -20 |  | 862 | -19 |  | 872 | -19 |  | 864 | -18 |  | 862 | -21 |  |
| 21 | 875 | -18 |  |  | 873 | -15 |  |  | 868 | -18 |  | 864 | -17 |  | 870 | -19 |  | 864 | -19 |  | 861 | -21 |  |
|  |  |  |  |  |  | DAY |  |  |  | DAY 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00 | 860 | -21 |  |  | 860 | -18 |  |  | 861 | -22 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 | 860 | -21 |  |  | 861 | -21 |  |  | 860 | -21 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 | 860 | -21 |  |  | 862 | -25 |  |  | 858 | -21 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | 859 | -22 |  |  | 862 | -24 |  |  | 857 | -20 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 859 | -22 |  |  | 863 | -24 |  |  | 856 | -22 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 859 | -22 |  |  | 862 | -24 |  |  | 855 | -21 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 859 | -21 |  |  | 862 | -23 |  |  | 855 | -22 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 859 | -19 |  |  | 861 | -21 |  |  | 855 | -21 |  |  |  |  |  |  |  |  |  |  |  |  |  |

* temperature ( $C$ ) * mean $=-22.2$ Std dev $=3.8$ max $=-11.2$ at 610 GMt on day 24 min $=-30.0$ at 930 gmt on day 17
* theta (K) * MEAN $=261.21$
* PRESSURE (MB) * MEAN $=869.4$ STD DEV $=6.7$ MAX $=885.4$ AT 1650 GMT ON DAY 11 MIN $=854.6$ AT 1940 GMT ON DAY 31
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $30.2 \%$ PRESSURE: $\mathbf{3 0 . 2 \%}$ WINDS: $100.0 \%$
 $\begin{array}{lcccccccccccccccc}\text { PERCENT: } & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & W & \text { WNW } & \text { NW } & \text { NNW }\end{array}$
$\begin{array}{lrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

NOV 97

HR PP TT VV DD


## DAY 30

888-12
889-13
$889-13$
889-13
889-14
888-14
888-13
888-12



* TEMPERATURE ( $C$ ) * MEAN $=-14.6$ STD DEV $=3.8$ MAX $=-7.1$ AT 150 GMT ON DAY 22 MIN $=-27.6$ AT 650 GMT ON DAY 1
* THETA (K) * MEAN $=267.85$
* PRESSURE (MB) * MEAN $=884.1$ STD DEV $=9.6$ MAX $=898.6$ AT 1810 GMT ON DAY 23 MIN $=855.7$ AT 20 GMT ON DAY 1
* WINDS (M/S) * MEAN $=0.0 \mathrm{STD}$ DEV $=0.0$ RESULTANT $=0.0 \mathrm{FROM} \quad 0$. CONSTANCY $=0.00 \mathrm{MAX}=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: 0.0 \% PRESSURE: 0.0 \% WINDS: 100.0 \%

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
 Wind direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{lllllllllllllllll} \\ \text { PERCENT } & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$

| HR | PP |  | VV DD | PP |  |  | DD | PP | TT V |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAY | 1 |  | DAY | 2 |  |  | DAY | 3 |
| 00 | 887 | -11 |  | 885 | -10 |  |  | 890 | -12 |  |
| 03 | 886 | -11 |  | 885 | -11 |  |  | 889 | -11 |  |
| 06 | 886 | -11 |  | 886 | -12 |  |  | 889 | -11 |  |
| 09 | 885 | -13 |  | 887 | -13 |  |  | 888 | -11 |  |
| 12 | 885 | -13 |  | 887 | -14 |  |  | 887 | -11 |  |
| 15 | 885 | -13 |  | 889 | -14 |  |  | 886 | -8 |  |
| 18 | 884 | -12 |  | 889 | -13 |  |  | 887 | -7 |  |
| 21 | 885 | -12 |  | 890 | -13 |  |  | 887 | -7 |  |
|  |  | DAY | 8 |  | DAY | 9 |  |  | DAY 10 | 10 |
| 00 | 892 | -16 |  | 887 | -14 |  |  | 882 | -13 |  |
| 03 | 892 | -15 |  | 886 | -15 |  |  | 881 | -14 |  |
| 06 | 892 | -14 |  | 885 | -15 |  |  | 881 | -15 |  |
| 09 | 891 | -15 |  | 884 | -18 |  |  | 881 | -15 |  |
| 12 | 890 | -15 |  | 884 | -18 |  |  | 881 | -13 |  |
| 15 | 889 | -15 |  | 883 | -16 |  |  | 881 | -12 |  |
| 18 | 888 | -14 |  | 883 | -15 |  |  | 881 | -11 |  |
| 21 | 887 | -15 |  | 882 | -14 |  |  | 881 | -9 |  |
|  |  | DAY 1 | 15 |  | DAY | 16 |  |  | DAY 17 | 7 |
| 00 | 881 | -6 |  | 882 | -11 |  |  | 881 | -12 |  |
| 03 | 881 | -8 |  | 882 | -12 |  |  | 880 | -12 |  |
| 06 | 881 | -8 |  | 882 | -13 |  |  | 880 | -13 |  |
| 09 | 881 | -8 |  | 882 | -14 |  |  | 880 | -15 |  |
| 12 | 881 | -9 |  | 882 | -14 |  |  | 880 | -15 |  |
| 15 | 881 | -10 |  | 882 | -14 |  |  | 880 | -15 |  |
| 18 | 881 | -10 |  | 881 | -14 |  |  | 881 | -14 |  |
| 21 | 882 | -11 |  | 881 | -13 |  |  | 881 | -13 |  |
|  |  | DAY 2 |  |  | DAY | 23 |  |  | DAY 24 | 24 |
| 00 | 884 | -8 |  | 889 | -4 |  |  | 885 | -6 |  |
| 03 | 884 | -7 |  | 889 | -5 |  |  | 885 | -4 |  |
| 06 | 885 | -7 |  | 888 | -5 |  |  | 887 | -5 |  |
| 09 | 887 | -6 |  | 889 | -4 |  |  | 889 | -8 |  |
| 12 |  |  |  | 889 | -4 |  |  | 891 | -8 |  |
| 15 | 889 | -6 |  | 887 | -5 |  |  | 892 | -8 |  |
| 18 | 889 | -5 |  | 886 | -7 |  |  | 892 | -7 |  |
| 21 | 889 | -5 |  | 885 | -7 |  |  | 892 | -8 |  |
|  |  | DAY 29 |  |  | day 30 |  |  |  | DAY 31 |  |
| 00 | 883 | -5 |  | 888 | -6 |  |  | 886 | -7 |  |
| 03 | 883 | -4 |  | 888 | -6 |  |  | 886 | -6 |  |
| 06 | 884 | -7 |  | 888 | -9 |  |  | 886 | -7 |  |
| 09 | 885 | -7 |  | 888 | -5 |  |  | 886 | -8 |  |
| 12 | 886 | -7 |  | 887 | -9 |  |  | 886 | -7 |  |
| 15 | 887 | -7 |  | 887 | -9 |  |  | 886 | -9 |  |
| 18 | 887 | -6 |  | 887 | -9 |  |  | 886 | -8 |  |
| 21 | 888 | -8 |  | 887 | -8 |  |  | 885 | -9 |  |



MONTHLY SUMMARY

* temperature ( $C$ ) * mean $=-10.1$ Std dev $=3.8$ max $=-2.8$ at 130 GMt on day 27 min $=-18.2$ at 840 gmt on day 9
* theta (K) * mean $=272.50$
* PRESSURE (MB) * MEAN $=884.4$ STD DEV $=4.9$ MAX $=896.2$ AT 930 GMT ON DAY 4 MIN $=872.3$ AT 1430 GMT ON DAY 13
* WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.4 \%$ PRESSURE: $0.4 \%$ WINDS: $100.0 \%$

 WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT

* TEMPERATURE ( $C$ ) * MEAN $=1.2$ STD DEV $=0.9$ MAX $=5.1$ AT 1750 GMT ON DAY 14 MIN $=-1.9$ AT 630 GMT ON DAY 4
* THETA (K) * MEAN $=275.62$
* PRESSURE (MB) * MEAN $=985.1$ STD DEV $=8.4$ MAX $=1001.7$ AT 2030 GMT ON DAY 18 MIN $=965.2$ AT 2330 GMT ON DAY 1
* WINDS (M/S) * MEAN $=5.7$ STD DEV $=3.6$ RESULTANT $=3.6$ FROM 301. CONSTANCY $=0.62$ MAX $=20.1$ FROM 316 . AT 1150 GMT DAY 10 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.6 \%$ PRESSURE: $25.4 \%$ WINDS: $25.4 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
PERCENT

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 997 & 1 & 0 & 0\end{array}$
$\begin{array}{lllll}03 & 998 & 1 & 1 & 127\end{array}$
$\begin{array}{lllll}06 & 998 & 1 & 1 & 146\end{array}$

| 09 | 999 | 1 | 1 |
| :--- | :--- | :--- | :--- |

12
$\begin{array}{llrlllllr}15 & 1000 & 2 & 1 & 240 & 1006 & 2 & 1 & 106 \\ 18 & & & & & 1006 & 1 & 4 & 80 \\ 21 & 1002 & 2 & 3 & 303 & 1005 & 1 & 4 & 111\end{array}$
$00 \quad 970 \quad 2 \quad 4309$
$\begin{array}{lllll}03 & 969 & 2 & 5 & 300\end{array}$
$\begin{array}{lllll}06 & 969 & 2 & 5 & 329\end{array}$
$\begin{array}{lllll}09 & 970 & 2 & 6 & 327\end{array}$
$\begin{array}{llll}12 & 971 & 2 & 3\end{array}$
$15973 \quad 1313$
$\begin{array}{lllll}18 & 975 & 3 & 140\end{array}$
$\begin{array}{lllll}21 & 977 & 3 & 2 & 151\end{array}$ DAY 15

| 00 | 983 | 2 | 6298 | 983 | 2 | 4 | 307 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 03 | 983 | 2 | 6298 | 982 | 2 | 4 | 303 |
| 06 | 983 | 2 | 5302 | 982 | 2 | 3 | 305 |
| 09 | 983 | 2 | 6298 | 982 | 1 | 1 | 350 |
| 12 | 982 | 2 | 6298 | 982 | 1 | 1 | 302 |
| 15 | 982 | 2 | 5306 |  |  | 1 | 63 |
| 18 | 983 | 2 | 5289 | 981 | 2 | 2 | 122 |
| 21 | 983 | 2 | 3295 | 982 | 2 | 2 | 78 |
|  | DAY 22 |  |  | DAY 23 |  |  |  |
| 00 | 980 | 2 | 6326 | 987 | 1 | 3 | 298 |
| 03 | 982. | 2 | 4331 | 988 | 1 | 3 | 299 |
| 06 | 983 | 2 | 1334 | 988 | 1 |  | 296 |
| 09 | 985 | 1 | 4322 | 988 | 0 | 0 | 0 |
| 12 | 985 | 2 | 1317 | 989 | 2 | 0 | 0 |
| 15 | 986 | 3 | 3326 | 989 |  | 0 | 0 |
| 18 | 987 | 2 | 2323 | 989 |  |  | 0 |
| 1 | 987 | 2 | 2286 | 989 | 2 |  | 43 |

PP TT VV DD DAY 2 100321358 100401330 $1004 \quad 0 \quad 150$ 10051167 $\begin{array}{llll}978 & -1 & 9 & 122\end{array}$ $\begin{array}{llll}981 & -1 & 6 & 137\end{array}$ $\begin{array}{llll}984 & -1 & 6 & 122\end{array}$ $\begin{array}{llll}987 & -1 & 6 & 125\end{array}$
$\begin{array}{llll}990 & -1 & 6 & 116\end{array}$
$\begin{array}{llll}991 & -1 & 6 & 115\end{array}$
$\begin{array}{llll}993 & -1 & 3 & 118\end{array}$
$\begin{array}{llll}995 & -1 & 2 & 139\end{array}$
DAY 16
$983 \quad 2 \quad 4307$

$\begin{array}{llll}982 & 1 & 1 & 73 \\ 982 & 0 & 1 & 49\end{array}$
$\begin{array}{llll}983 & 0 & 2 & 1\end{array}$
98414336
$986 \quad 1 \quad 3329$
$987 \quad 1 \quad 5336$
$\begin{array}{llll}989 & 2 & 4338 \\ 990 & 2 & 4 & 358\end{array}$
99024358 DAY 24


PP TT VV DD DAY 4
$1003 \quad 16130$
$1003 \quad 1 \quad 5 \quad 120$
$1002 \quad 0 \quad 3 \quad 105$
$1002 \quad 0 \quad 7 \quad 130$
$\begin{array}{llll}1002 & -1 & 7 & 115 \\ 1002 & 0 & 7 & 120\end{array}$
$\begin{array}{llll}1002 & 0 & 7 & 120 \\ 1002 & 0 & 6 & 111\end{array}$
$\begin{array}{llll}1002 & 0 & 6 & 111 \\ 1002 & 0 & 6 & 116\end{array}$ DAY 11
993010300
99317296
$993 \quad 2 \quad 3279$
$\begin{array}{llll}993 & 2 & 3 & 274\end{array}$
$993 \quad 2 \quad 3 \quad 358$
$993 \quad 2 \quad 3 \quad 188$
$993 \quad 3 \quad 3212$
99422215 DAY 18
$993 \quad 1 \quad 1360$
$994 \quad 1 \quad 1153$
$996 \quad 0 \quad 7 \quad 112$
$998 \quad 1 \quad 6 \quad 120$
$999 \quad 0 \quad 7 \quad 119$
$1000 \quad 0 \quad 5 \quad 119$
$1001 \quad 0 \quad 4116$
100112120 DAY 25

| 988 | 0 | 4 | 105 |
| ---: | ---: | ---: | ---: |
| 988 | 0 | 4 | 112 |
| 988 | 0 | 2 | 90 |
| 989 | -1 | 3 | 99 |
| 990 | -1 | 2 | 129 |
| 991 | 0 | 2 | 140 |
| 992 | 0 | 1 | 232 |
| 992 | 0 | 3 | 253 |


| PP | TT VV | DD |
| :--- | ---: | ---: | ---: |
| DAY | 5 |  |


| 1002 | 0 | 6 | 136 |
| ---: | ---: | ---: | ---: |
| 1001 | 0 | 5 | 109 |
| 1000 | 0 | 5 | 123 |
| 999 | 0 | 5 | 130 |
| 998 | 0 | 3 | 102 |
| 998 |  | 0 | 0 |
| 996 | 1 | 2 | 288 |
| 994 | -1 | 5 | 317 |
|  | DAY | 12 |  |

$994 \quad 2 \quad 3219$
$994 \quad 2 \quad 1241$

99124305
$989 \quad 2 \quad 6317$
$985 \quad 2 \quad 9317$
981212322
$979 \quad 210313$
$978 \quad 2 \quad 8 \quad 307$ DAY 19
$\begin{array}{llll}999 & 0 & 1 & 306 \\ 998 & 0 & 2 & 284 \\ 995 & 0 & 3 & 313 \\ 993 & 0 & 5 & 306 \\ 991 & 0 & 7 & 313 \\ 989 & 0 & 9 & 309 \\ 988 & 0 & 9 & 309 \\ 986 & 1 & 8 & 312\end{array}$

## DAY 26

| 993 | 0 | 2 | 281 |
| ---: | ---: | ---: | ---: |
| 994 | 0 | 3 | 233 |
| 994 | 1 | 4 | 296 |
| 993 | 1 | 7 | 317 |
| 992 | 1 | 11 | 309 |
| 991 | 1 | 8 | 306 |
| 990 | 1 | 11 | 360 |
| 990 | 1 | 10 | 307 |



* TEMPERATURE (C) * MEAN $=1.0$ STD DEV $=1.0$ MAX $=3.6$ AT 1850 GMT ON DAY 7 MIN $=-1.9$ AT 430 GMT ON DAY 9
* THETA (K) * MEAN $=275.09$
* PRESSURE (MB) * MEAN $=988.4$ STD DEV $=9.2$ MAX $=1006.0$ AT 1500 GMT ON DAY 2 MIN $=967.2$ AT 500 GMT ON DAY 7
* $\operatorname{WINDS}(M / S) *$ MEAN $=4.6$ STD DEV $=3.1$ RESULTANT $=2.0$ FROM 304. CONSTANCY $=0.44$ MAX $=18.9$ FROM 306. AT 2350 GMT DAY 28
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.9 \%$ PRESSURE: $3.1 \%$ WINDS: $2.7 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllllllll}\text { PERCENT } & 4 & 0 & 1 & 2 & 3 & 15 & 7 & 1 & 2 & 1 & 4 & 4 & 4 & 22 & 24 & 5\end{array}$

MAR 97

HR PP TT VV
$00 \quad 976 \quad 216306$

| 03 | 975 | 2 | 14 |
| :--- | :--- | :--- | :--- |

$\begin{array}{llll}06 & 970 & 2 & 919\end{array}$
$\begin{array}{lllll}09 & 966 & 2 & 9 & 303\end{array}$
$\begin{array}{lllll}12 & 967 & 1 & 13 & 181\end{array}$
$\begin{array}{llll}15 & 973 & 2 & 12 \\ 187\end{array}$
$\begin{array}{lllll}18 & 980 & 2 & 9 & 178\end{array}$
$21982 \quad 2 \quad 6195$ DAY 8
$\begin{array}{rrrrr}00 & 985 & 2 & 6 & 288 \\ 03 & 984 & 2 & 5 & 291 \\ 06 & 983 & 2 & 4 & 298 \\ 09 & 982 & 1 & 2 & 275 \\ 12 & 982 & 1 & 1 & 154 \\ 15 & 984 & 0 & 12 & 116 \\ 18 & 987 & 1 & 13 & 119 \\ 21 & 990 & 1 & 14 & 113\end{array}$ DAY 15
$001002 \quad 0 \quad 8 \quad 136$
$031004 \quad 0 \quad 10122$
$061005 \quad 0 \quad 10125$
$091009 \quad 0 \quad 6 \quad 125$
$\begin{array}{llll}121009 & 1 & 7 & 129\end{array}$
$151011 \quad 1 \quad 5142$
$\begin{array}{llll}18 & 1012 \quad 1 & 2149\end{array}$
$\begin{array}{llll}21 & 1012 \quad 1 & 147\end{array}$ DAY 22
$\begin{array}{lllll}00 & 978 & -2 & 5 & 172\end{array}$
$\begin{array}{lllll}03 & 978 & -2 & 6 & 182\end{array}$
$\begin{array}{lllll}06 & 975 & -1 & 5 & 253\end{array}$
$\begin{array}{lllll}09 & 972 & -3 & 5 & 165\end{array}$
$\begin{array}{lllll}12 & 971 & -2 & 9 & 192\end{array}$
$\begin{array}{lllll}15 & 973 & -1 & 8 & 119\end{array}$
$\begin{array}{lllll}18 & 974 & -2 & 9 & 125\end{array}$
$\begin{array}{lllll}21 & 976 & -2 & 9 & 135\end{array}$ DAY 29
$\begin{array}{lllll}00 & 965 & 1 & 2 & 36\end{array}$
$\begin{array}{lllll}03 & 965 & 1 & 4 & 22\end{array}$
$\begin{array}{lllll}06 & 966 & 2 & 4 & 77\end{array}$
$\begin{array}{lllll}09 & 968 & 1 & 3 & 115\end{array}$
$12970 \quad 0 \quad 4133$
$\begin{array}{llll}15 & 972 & 1 & 4125\end{array}$
$\begin{array}{lllll}18 & 974 & 0 & 7 & 125\end{array}$

| PP |  |  | TT | VV |
| :--- | ---: | ---: | ---: | ---: |
| DAY | DD |  |  |  |
| 981 | 2 | 3 | 189 |  |
| 980 | 2 | 2 | 258 |  |
| 980 | 2 | 1 | 277 |  |
| 980 | 1 | 1 | 75 |  |
| 981 | 1 | 1 | 133 |  |
| 983 | 2 | 5 | 156 |  |
| 986 | 2 | 3 | 158 |  |
| 988 | 2 | 3 | 156 |  |
|  | DAY | 9 |  |  |
| 992 | 1 | 13 | 129 |  |
| 994 | 0 | 12 | 129 |  |
| 996 | 1 | 10 | 123 |  |
| 997 | 1 | 4 | 142 |  |
| 995 | 1 | 6 | 182 |  |
| 992 | 2 | 6 | 187 |  |
| 990 | 2 | 9 | 161 |  |
| 988 | 0 | 4 | 229 |  |


| PP | TT | W | DD |
| ---: | ---: | ---: | ---: |
| DAY | 3 |  |  |
| 989 | 1 | 2 | 165 |


| PP TT VV | DD |
| :--- | :--- |
| DAY | 4 |

PP TT VV DD
DAY 5

## $992 \quad 2 \quad 3258$

$993 \quad 2 \quad 3265$
$993 \quad 2 \quad 3298$

## $993 \quad 2 \quad 3322$

## $994 \quad 2 \quad 2315$

$994 \quad 2 \quad 1286$.
$995 \quad 2 \quad 1216$
$996 \quad 2 \quad 1220$
DAY 12
$\begin{array}{lll}977 & -1 & 12126\end{array}$
$977 \quad 0 \quad 9116$
$977 \quad 0 \quad 9130$

## 979012118

$983 \quad 0 \quad 10109$
$\begin{array}{llll}975 & -1 & 14122\end{array}$
$\begin{array}{llll}975 & -1 & 12133\end{array}$

$$
\text { DAY } 18
$$

| 1012 | 1 | 1233 |
| :--- | :--- | :--- |


| 1010 | 2 | 250 |
| :--- | :--- | :--- |

$1009 \quad 2 \quad 3215$

## 100624267

$998 \quad 2 \quad 7261$
$997 \quad 2 \quad 4201$
$1000 \quad 2 \quad 3174$ DAY 23
$\begin{array}{llll}977 & -3 & 7 & 127\end{array}$
$\begin{array}{llll}977 & -3 & 6 & 171\end{array}$
$\begin{array}{llll}977 & -3 & 5 & 135\end{array}$
$\begin{array}{llll}977 & -3 & 5 & 182\end{array}$
$\begin{array}{llll}977 & -3 & 10 & 123\end{array}$
$\begin{array}{llll}978 & -3 & 9 & 119\end{array}$
$981-311113$
$983-312109$ DAY 30
$\begin{array}{llll}979 & -1 & 8 & 132\end{array}$
$\begin{array}{llll}981 & -1 & 8 & 126\end{array}$
$\begin{array}{llll}983 & -1 & 10 & 137\end{array}$
$\begin{array}{llll}985 & -2 & 8 & 120\end{array}$
$\begin{array}{lll}986 & -1 & 6\end{array} 135$
$986 \quad 0 \quad 9127$
$989 \quad 0 \quad 1237$
$987 \quad 0 \quad 4137$
$988 \quad 0 \quad 5139$
$989-1 \quad 5116$
$990 \quad 1 \quad 6168$
$991 \quad 0 \quad 5180$
$992 \quad 1 \quad 5161$
$992 \quad 0 \quad 4184$
DAY 25
$\begin{array}{lll}1000 & -2 & 1327\end{array}$
$\begin{array}{llll}1001 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}1001 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}1001 & -2 & 0 & 0\end{array}$
1001 -1 1180

100203225
$\begin{array}{llllllll}1000 & -2 & 3 & 45 & 1002 & 0 & 2 & 251\end{array}$
$\begin{array}{llll}989 & -1 & 12130\end{array}$
992 - 111127
DAY 19

| 992 | 1 | 5 | 150 |
| :--- | :--- | :--- | :--- |
| 990 | 1 | 6 | 167 |
| 990 | 1 | 3 | 194 |

$990 \quad 1 \quad 3194$
$988 \quad 1 \quad 4229$
$985 \quad 1 \quad 5257$
$980 \quad 0 \quad 8278$
$977 \quad 1 \quad 6227$
$976 \quad 1 \quad 5.222$
DAY 26
$1002 \quad 0 \quad 3210$
$1002 \quad 0 \quad 2226$
$1002 \quad 0 \quad 2253$
$1001 \quad 0 \quad 3285$
$\begin{array}{llll}1001 & -1 & 4312\end{array}$
$999 \quad 0 \quad 6305$
$\begin{array}{llll}994 & -1 & 10 & 317\end{array}$
$\begin{array}{lll}\text { PP TT WV DD } \\ \text { DAY } & 6\end{array}$
PP TT VV DD DAY 7
$996 \quad 2 \quad 2140$
$997 \quad 2 \quad 2143$
$997 \quad 1 \quad 3120$
$996 \quad 1 \quad 6111$
$997 \quad 1 \quad 5115$
$\begin{array}{llll}997 & 2 & 5132\end{array}$
$997 \quad 17129$
$998 \quad 1 \quad 3149$ DAY 13
$991 \quad 0 \quad 8140$
$\begin{array}{llll}988 & 0 & 3 & 177 \\ 983 & 0 & 4 & 212\end{array}$
$\begin{array}{llll}983 & 0 & 4 & 212 \\ 980 & 1 & 11 & 139\end{array}$
$981 \quad 114143$

| 984 | 1 | 9 | 133 |
| :--- | :--- | :--- | :--- |
| 986 | 1 | 12 | 133 |
| 989 | 1 | 9 | 129 |

989 | 1 | 9 | 129 |
| ---: | ---: | ---: |
| DAY | 20 |  |

$998 \quad 1 \quad 3192$
$997 \quad 1 \quad 3236$
$994 \quad 1 \quad 5268$
$992 \quad 2 \quad 6264$
99124264
$989 \quad 26260$
$987 \quad 2 \quad 6264$
$986 \quad 2 \quad 6278$

## DAY 14

$992 \quad 1 \quad 9129$
$993 \quad 1 \quad 9123$
$993 \quad 111140$
$994 \quad 1 \quad 9135$
$995 \quad 112135$
$997 \quad 111135$
$998 \quad 112135$
$999 \quad 115125$ DAY 21

| 975 | 2 |  | 229 | 973 | 2 | 5 | 257 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 974 | 2 |  | 226 | 972 | 2 | 8 | 229 |
| 974 | 0 | 4 | 188 | 973 | 0 | 6 | 168 |
| 976 | 1 |  | 175 | 974 | -2 | 5 | 154 |
| 977 | 1 | 6 | 192 | 975 | -1 | 5 | 191 |
| 976 | 1 | 5 | 212 | 977 | -1 | 6 | 161 |
| 975 | 1 | 6 | 196 | 978 | -4 | 4 | 172 |
| DAY 27 |  |  |  | DAY 28 |  |  |  |
| 990 | 0 | 11 | 330 | 968 | 1 |  | 302 |
| 987 | 1 | 9 | 319 | 969 | 1 | 6 | 299 |
| 982 | 1 | 10 | 322 | 970 | 1 | 3 | 233 |
| 977 | 1 | 11 | 326 | 971 | 1 | 2 | 239 |
| 974 | 2 | 10 | 307 | 971 | 1 | 5 | 267 |
| 972 | 2 |  | 303 | 969 | 1 |  | 299 |
| 971 | 2 |  | 300 | 967 | 1 |  | 341 |
| 969 | 2 |  | 303 | 965 | 1 | 4 | 8 |

* temperature ( $C$ ) * mean $=0.4$ std dev $=1.4$ max $=2.6$ at 240 GMT on day 1 min $=-4.2$ at 940 GMt on day 23
* theta (K) * MEAN $=274.71$
* PRESSURE (MB) * MEAN $=985.7$ STD DEV $=10.9$ MAX $=1012.2$ AT 2040 GMT ON DAY 15 MIN $=964.4$ AT 2350 GMT ON DAY 28
* WINDS (M/S) * MEAN $=6.4$ STD DEV $=3.6$ RESULTANT $=2.9$ FROM 159. CONSTANCY $=0.46 \mathrm{MAX}=19.1$ FROM 310 . AT 30 GMT DAY 1 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $3.2 \%$ PRESSURE: $3.2 \%$ WINDS: $3.2 \%$

 WIND DIRECTION: $N$ NNE NE ENE $E$ ESE $\operatorname{SE}$ SSE $S$ SSW $\operatorname{SW}$ WSW W WNW NW NNW
PERCENT

$$
\begin{array}{llllllllllllllll}
1 & 0 & 1 & 1 & 0 & 12 & 24 & 9 & 11 & 6 & 9 & 6 & 7 & 6 & 7 & 1
\end{array}
$$

APR 97
HR PP TT VV DD

| 00 | 986 | -1 | 8 | 137 |
| ---: | ---: | ---: | ---: | ---: |
| 03 | 988 | -1 | 10 | 118 |
| 06 | 990 | -1 | 11 | 118 |
| 09 | 993 | -2 | 5 | 122 |
| 12 | 995 | -2 | 8 | 123 |
| 15 | 996 | -1 | 3 | 144 |
| 18 | 997 | -1 | 2 | 167 |
| 21 | 997 | -1 | 2 | 282 |
|  |  | DAY | 8 |  |
| 00 | 986 | -1 | 4 | 219 |
| 03 | 986 | 0 | 4 | 226 |
| 06 | 984 | 0 | 5 | 305 |
| 09 | 981 | 0 | 5 | 333 |
| 12 | 977 | -1 | 7 | 15 |
| 15 |  |  |  |  |
| 18 | 968 | 1 | 10 | 307 |
| 21 | 966 | 1 | 9 | 291 |

$\begin{array}{lllll}00 & 968 & 0 & 12 & 310\end{array}$
$\begin{array}{lllll}03 & 967 & 0 & 9 & 315\end{array}$
$\begin{array}{lllll}06 & 966 & 0 & 10 & 298\end{array}$
$09 \quad 966 \quad 0 \quad 11305$
$\begin{array}{lllll}12 & 966 & -1 & 7 & 305\end{array}$
$\begin{array}{llll}15 & 967 & -1 & 6 \\ 296\end{array}$
$\begin{array}{llll}18 & 967 & -1 & 4 \\ 284\end{array}$
$\begin{array}{llll}21 & 967 & -1 & 3\end{array} 282$ DAY 22
$\begin{array}{lllll}00 & 983 & -3 & 3 & 309\end{array}$
$\begin{array}{lllll}03 & 983 & -2 & 6 & 313\end{array}$
$\begin{array}{lllll}06 & 982 & -2 & 8 & 317\end{array}$
$\begin{array}{llll}09 & 981 & -2 & 9 \\ 319\end{array}$
$\begin{array}{lllll}12 & 981 & -2 & 9 & 303\end{array}$
$\begin{array}{llll}15 & 980 & -2 & 6\end{array} 333$
$\begin{array}{lllll}18 & 977 & -2 & 7 & 316\end{array}$
$\begin{array}{llll}21 & 976 & -2 & 6\end{array}$ DAY 29
$\begin{array}{lllll}00 & 972 & -4 & 9 & 135\end{array}$
$\begin{array}{lllll}03 & 974 & -5 & 8 & 129\end{array}$
$\begin{array}{lllll}06 & 976 & -6 & 9 & 143\end{array}$
$\begin{array}{lllll}09 & 978 & -7 & 8 & 130\end{array}$
$\begin{array}{lllll}12 & 980 & -6 & 7 & 142\end{array}$
$\begin{array}{lllll}15 & 981 & -6 & 8 & 120\end{array}$
$\begin{array}{lllll}18 & 982 & -5 & 4 & 116\end{array}$
$\begin{array}{lllll}21 & 982 & -5 & 5 & 111\end{array}$

PP TT VV DD PP TT VV DD DAY 2
$\begin{array}{llll}997 & -1 & 5 & 268\end{array}$
$\begin{array}{llll}996 & -1 & 6 & 255\end{array}$
$995 \quad 0 \quad 6212$
$996 \quad 14199$
99714205
$998 \quad 1 \quad 2213$
$\begin{array}{llll}998 & 1 & 5 & 185\end{array}$
$1000 \quad 1 \quad 3177$

\[

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$966 \quad 0 \quad 3213$
$\begin{array}{llll}966 & -1 & 8 & 115\end{array}$
$\begin{array}{llll}966 & -1 & 9 & 106\end{array}$
$\begin{array}{llll}967 & -1 & 7115\end{array}$
$\begin{array}{llll}968 & -1 & 8 & 122\end{array}$
$\begin{array}{llll}969 & -2 & 8 & 137\end{array}$
$\begin{array}{llll}969 & -1 & 10 & 123\end{array}$ DAY 16
$\begin{array}{llll}968 & -1 & 1 & 291\end{array}$
$\begin{array}{llll}968 & -1 & 1300\end{array}$
$\begin{array}{lll}968 & -1 & 2317\end{array}$
$\begin{array}{llll}968 & -1 & 2323\end{array}$
$\begin{array}{llll}968 & -1 & 4 & 319\end{array}$
$\begin{array}{lll}968 & -1 & 3 \\ 927\end{array}$
$\begin{array}{llll}967 & -1 & 6 & 315\end{array}$
968 -1 6291 DAY 23
$\begin{array}{lll}975 & -2 & 534\end{array}$
$\begin{array}{llll}974 & -3 & 8 & 327\end{array}$
$\begin{array}{llll}972 & -2 & 9 & 317\end{array}$
$\begin{array}{llll}973 & -2 & 10 & 315\end{array}$
$\begin{array}{llll}974 & -2 & 11309\end{array}$
$\begin{array}{llll}975 & -1 & 9 & 317\end{array}$
$\begin{array}{llll}976 & -1 & 6317\end{array}$
$\begin{array}{llll}978 & -1 & 4 & 296\end{array}$ DAY 30
$\begin{array}{llll}984 & -6 & 6 & 118\end{array}$
$\begin{array}{llll}985 & -6 & 6 & 97\end{array}$
$\begin{array}{llll}987 & -6 & 4 & 88\end{array}$
$\begin{array}{llll}988 & -6 & 4 & 108\end{array}$
$\begin{array}{llll}990 & -6 & 3 & 119\end{array}$
$\begin{array}{llll}991 & -6 & 2 & 127\end{array}$
$\begin{array}{llll}991 & -6 & 2 & 167\end{array}$ DAY 3 $1002 \quad 0 \quad 6137$ $\begin{array}{llll}1004 & -1 & 4 & 132\end{array}$ $\begin{array}{llll}1005 & -1 & 3 & 178\end{array}$ $\begin{array}{llll}1006 & -1 & 195\end{array}$ $1007 \quad 0 \quad 1144$ $1008 \quad 1 \quad 2198$ 100912163 $1011 \quad 12164$ DAY 10
$\begin{array}{llll}971 & -1 & 7135\end{array}$
$\begin{array}{llll}972 & -2 & 8 & 136\end{array}$
$\begin{array}{llll}973 & -2 & 8 & 126\end{array}$
975 -2 6111
$\begin{array}{llll}976 & -2 & 7 & 129\end{array}$
$\begin{array}{llll}977 & -1 & 5 & 118\end{array}$
$\begin{array}{llll}978 & -1 & 3 & 119\end{array}$
$\begin{array}{llll}979 & -1 & 3 & 112\end{array}$
DAY 17
$\begin{array}{llll}968 & -1 & 5 & 310\end{array}$
$\begin{array}{llll}967 & -1 & 6347\end{array}$
$\begin{array}{lll}967 & -1 & 2326\end{array}$
$\begin{array}{lll}967 & -1 & 3\end{array}$
$\begin{array}{llll}967 & -1 & 2 & 1\end{array}$
$\begin{array}{llll}967 & 0 & 1329\end{array}$
$\begin{array}{llll}967 & -1 & 3 & 343\end{array}$
$\begin{array}{llll}967 & -1 & 0 & 0\end{array}$
DAY 24
$\begin{array}{llll}980 & -1 & 5 & 177\end{array}$
$\begin{array}{lll}982 & -1 & 213\end{array}$
$\begin{array}{lll}983 & -1 & 257\end{array}$
$\begin{array}{llll}984 & -1 & 3 & 250\end{array}$

| 984 | -1 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}983 & -1 & 7 & 306\end{array}$
$\begin{array}{llll}981 & -1 & 9 & 313\end{array}$
$980 \quad 0 \quad 10317$
PP TT VV DD PP TT VV DD PP TT VV DD

DAY 4
101211355
101111329
$1011 \quad 12279$
$1011 \quad 1 \quad 2300$
$1009 \quad 0 \quad 6302$
$1009 \quad 0 \quad 6295$
$1007 \quad 0 \quad 8303$
$1007 \quad 0 \quad 9302$ DAY 11
$\begin{array}{llll}980 & -2 & 1195\end{array}$
$\begin{array}{lll}979 & -2 & 1265\end{array}$
$\begin{array}{llll}979 & -1 & 8 & 136\end{array}$
$\begin{array}{llll}980 & -1 & 8 & 163\end{array}$
$\begin{array}{llll}982 & -2 & 6 & 149\end{array}$
$\begin{array}{llll}982 & -2 & 225\end{array}$
$\begin{array}{llll}981 & -1 & 6 & 188\end{array}$
$\begin{array}{llll}981 & -1 & 7 & 188\end{array}$

## DAY 18

$\begin{array}{llll}968 & -1 & 1 & 2\end{array}$
$\begin{array}{llll}968 & -1 & 1 & 2\end{array}$
$\begin{array}{llll}968 & -2 & 4 & 341\end{array}$
$\begin{array}{llll}968 & -2 & 0 & 0\end{array}$
$\begin{array}{llll}968 & -1 & 3 & 5\end{array}$
$\begin{array}{llll}969 & -1 & 1298\end{array}$
$\begin{array}{llll}969 & -2 & 0 & 0\end{array}$
DAY 25
$\begin{array}{llll}980 & -1 & 10 & 313\end{array}$
$\begin{array}{llll}981 & -1 & 272\end{array}$
$\begin{array}{llll}982 & -1 & 4 & 296\end{array}$
$\begin{array}{llll}983 & -1 & 5 & 296\end{array}$
$\begin{array}{llll}983 & -1 & 7320\end{array}$
$\begin{array}{llll}984 & -1 & 8315\end{array}$
$\begin{array}{llll}986 & -2 & 5 & 305\end{array}$
$\begin{array}{lll}989 & -2 & 4284\end{array}$

DAY 5
1005010298
$1004 \quad 0 \quad 10292$
$1002 \quad 0 \quad 8299$
1001011300

## $999 \quad 0 \quad 10309$

$\begin{array}{llll}998 & 0 & 8 & 315\end{array}$
$996 \quad 0 \quad 11305$
$997 \quad 1 \quad 9291$ DAY 12
$\begin{array}{llll}980 & -1 & 6 & 181\end{array}$
$\begin{array}{llll}979 & -1 & 4 & 184\end{array}$
$\begin{array}{llll}979 & -1 & 5 & 216\end{array}$
$\begin{array}{llll}978 & -1 & 2223\end{array}$
$\begin{array}{llll}977 & -2 & 3 & 291\end{array}$
$\begin{array}{llll}976 & -1 & 4 & 289\end{array}$
$\begin{array}{llll}975 & -1 & 4 & 268\end{array}$
$973-14319$ DAY 19
$\begin{array}{llll}970 & -3 & 0 & 0\end{array}$
$\begin{array}{llll}970 & -1 & 4 & 123\end{array}$
$\begin{array}{llll}970 & -1 & 3 & 94\end{array}$

| 971 | -1 | 3 | 50 |
| ---: | ---: | ---: | ---: |
| 971 | -1 | 7 | 119 |
| 971 | -1 | 8 | 130 |
| 972 | -2 | 7 | 122 |
| DAY |  |  |  |
| 96 |  |  |  |
| 991 | -2 | 4 | 203 |
| 993 | -2 | 6 | 184 |
| 994 | -1 | 6 | 129 |
| 995 | -2 | 6 | 130 |
| 997 | -3 | 4 | 137 |
| 997 | -3 | 2 | 112 |
| 998 | -3 | 0 | 0 |
| 998 | -3 | 0 | 0 |

## DAY 6

$998 \quad 0 \quad 6274$
$998 \quad 1 \quad 7295$
$997 \quad 0 \quad 7307$
$995 \quad 18299$
$992 \quad 1 \quad 9306$
$990 \quad 114305$
987111302
$984 \quad 2 \quad 9299$ DAY 13
$\begin{array}{llll}972 & -2 & 4 & 264\end{array}$
$\begin{array}{lll}972 & -2 & 285\end{array}$
$\begin{array}{llll}971 & -2 & 3 & 277\end{array}$
$\begin{array}{llll}971 & -1 & 4 & 302\end{array}$
$\begin{array}{llll}972 & -1 & 4 & 300\end{array}$
$\begin{array}{llll}973 & -1 & 688\end{array}$
$\begin{array}{lll}973 & -1 & 7315\end{array}$
97406293 DAY 20
$\left.\begin{array}{llllllll|}971 & -2 & 7 & 133 & 970 & -2 & 4 & 167 \\ 970 & -2 & 6 & 135 & & 972 & -2 & 4 \\ 160 \\ 969 & -2 & 3 & 164 & & 973 & -2 & 4 \\ 143 \\ 968 & -3 & 1 & 133 & & 976 & -2 & 4 \\ 125 \\ 967 & -4 & 2 & 196 & & 978 & -2 & 2 \\ 146 \\ 966 & -3 & 8 & 156 & & 980 & -2 & 1 \\ \hline\end{array}\right] 1$

* TEMPERATURE (C) * MEAN $=-1.3$ STD DEV $=1.6$ MAX $=1.5$ AT 2050 GMT ON DAY 6 MIN $=-7.2$ AT 1020 GMT ON DAY 29
* THETA (K) * MEAN $=273.31$
* PRESSURE (MB) * MEAN $=981.6$ STD DEV $=12.4$ MAX $=1011.6$ AT 2340 GMT ON DAY 3 MIN $=964.9$ AT 510 GMT ON DAY 9
* WINDS (M/S) * MEAN $=5.2$ STD DEV $=3.0$ RESULTANT $=1.3$ FROM 275. CONSTANCY $=0.25$ MAX $=14.2$ FROM 322 . AT 430 GMT DAY 23
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $1.7 \%$ PRESSURE: $1.7 \% \quad$ WINDS: $1.7 \%$
 PERCENT:

WIND DIRECTION: $\quad$ N NNE NE ENE $\quad$ E
HR PP TT VV DD PP TT VV DD PP TT VV DD

|  |  | DAY | 1 |  | DAY | 2 |  | DAY | 3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 990 | -6 | 00 | 983 | -3 | 9296 | 974 | -3 | 6 | 157 |
| 03 | 990 | -5 | 3299 | 980 | -3 | 12300 | 974 | -3 | 6 | 144 |
| 06 | 989 | -4 | 5309 | 977 | -2 | 14305 | 975 | -3 | 7 | 125 |
| 09 | 987 | -4 | 8305 | 973 | -2 | 16313 | 977 | -4 | 12 | 125 |
| 12 | 987 | -4 | 7324 | 972 | -2 | 17305 | 979 | -3 | 8 | 146 |
| 15 | 986 | -4 | 9319 | 970 | -2 | 18302 | 980 | -3 | 9 | 143 |
| 18 | 984 | -3 | 11298 | 972 | -1 | 7293 | 982 | -4 | 11 | 98 |
| 21 | 984 | -2 | 8303 | 973 | -2 | 7174 | 984 | -4 | 11 | 122 |
|  |  | DAY | 8 |  | DAY | 9 |  | DAY | 10 |  |
| 00 | 991 | -1 | 4201 | 992 | -2 | 10158 | 993 | 0 | 5 | 277 |
| 03 | 988 | -1 | 5236 | 997 | -2 | 5113 | 994 | 0 | 3 | 291 |
| 06 | 982 | -1 | 10264 | 998 | -3 | 1348 | 995 | 0 | 2 | 241 |
| 09 | 977 | -1 | 8213 | 997 | -2 | 3265 | 996 | 0 | 1 | 268 |
| 12 | 978 | -1 | 14150 | 996 | -2 | 6284 | 996 | 0 | 3 | 234 |
| 15 | 981 | -1 | 13147 | 992 | -2 | 10298 | 996 | 0 | 5 | 225 |
| 18 | 987 | -2 | 9144 | 990 | -2 | 11303 | 996 | 0 | 6 | 217 |
| 21 | 991 | -2 | 10158 | 991 | -1 | 6293 | 996 | -1 | 6 | 206 |
|  | DAY 15 |  |  | DAY 16 |  |  | DAY 17 |  |  |  |
| 00 | 984 | -3 | 5187 | 985 | -4 | 7122 | 999 | -4 | 4 | 338 |
| 03 | 985 | -3 | 2181 | 987 | -3 | 5122 | 1000 | -4 | 4 | 7 |
| 06 | 985 | -5 | 3174 | 988 | -4 | 5106 | 1000 | -4 | 3 | 30 |
| 09 | 985 | -4 | 1210 | 991 | -4 | 3112 | 1000 | -4 | 4 | 57 |
| 12 | 986 | -4 | 1274 | 994 | -4 | 3106 | 1000 | -4 | 3 | 64 |
| 15 |  |  |  | 997 | -4 | 00 | 1001 | -4 | 3 | 63 |
| 18 | 985 | -3 | 288 | 998 | -4 | 00 | 1000 | -4 | 3 | 60 |
| 21 | 985 | -4 | 4101 | 999 | -4 | 4323 | 999 | -4 | 5 | 88 |
|  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  |  |
| 00 | 1001 | -3 | 7132 | 1003 | -2 | 7133 | 1010 | -2 | 10 | 25 |
| 03 | 1002 | -4 | 6136 | 1004 | -2 | 8154 | 1011 | -2 | 9 | 127 |
| 06 | 1002 | -4 | 4135 | 1004 | -2 | 11142 | 1012 | -2 | 6 | 149 |
| 09 | 1002 | -3 | 4137 | 1007 | -2 | 10116 | 1012 | -2 | 5 | 150 |
| 12 | 1003 | -3 | 4150 | 1008 | -2 | 7115 | 1010 | -2 | 5 | 142 |
| 15 | 1003 | -2 | 2168 |  |  |  |  |  |  |  |
| 18 | 1002 | -2 | 5156 | 1009 | -3 | 10123 | 1007 | -1 | 6 | 170 |
| 21 | 1002 | -1 | 7142 | 1010 | -3 | 9127 | 1004 | -1 | 4 | 174 |
| DAY 29 |  |  |  | DAY 30 |  |  | DAY 31 |  |  |  |
| 00 | 1003 | -1 | 2241 | 1004 | -3 | 5120 | 1002 | -2 | 4 | 125 |
| 03 | 1002 | -1 | 3215 | 1004 | -3 | 3111 | 1002 | -2 | 5 | 126 |
| 06 | 1001 | -1 | 1237 | 1004 | -2 | 2174 | 1001 | -3 | 5 | 127 |
| 09 | 1000 | -1 | 1229 | 1004 | -2 | 1192 | 1001 | -2 | 5 | 127 |
| 12 | 1001 | -1 | 3150 | 1003 | -3 | 4146 | 1001 | -2 | 3 | 129 |
| 15 | 1002 | -2 | 6133 | 1002 | -2 | 4143 | 1001 | -2 | 3 | 143 |
| 18 | 1004 | -2 | 5126 | 1003 | -2 | 3105 | 1001 | -2 | 3 | 143 |
| 21 | 1004 | -2 | 5127 | 1002 | -2 | 3123 | 1000 | -2 | 4 | 140 |



## MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-2.4$ STD DEV $=1.4$ MAX $=1.1$ AT 1110 GMT ON DAY 12 MIN $=-6.4$ AT 10 GMT ON DAY 1
* THETA (K) * MEAN $=271.13$
* PRESSURE (MB) * MEAN $=995.1$ STD DEV $=11.2$ MAX $=1019.1$ AT 510 GMT ON DAY 26 MIN $=969.5$ AT 1500 GMT ON DAY 2
* WINDS (M/S) * MEAN $=5.8$ STD DEV $=3.4$ RESULTANT $=2.0$ FROM 160. CONSTANCY $=0.35$ MAX $=19.9$ FROM 312 . AT 730 GMT DAY 2
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.0 \%$ PRESSURE: $4.0 \%$ WINDS: $4.4 \%$
 PERCENT:
WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{llllllllllllllllll}\text { PERCENT } & 0 & 0 & 0 & 2 & 3 & 13 & 31 & 8 & 6 & 5 & 4 & 4 & 4 & 10 & 6 & 1\end{array}$

* TEMPERATURE (C) * MEAN $=-4.0$ STD DEV $=3.0$ MAX $=2.2$ AT 2340 GMT ON DAY 2 MIN $=-12.5$ AT 320 GMT ON DAY 24
* THETA (K) * MEAN $=269.24$
* PRESSURE (MB) * MEAN $=999.1$ STD DEV $=8.6$ MAX $=1022.5$ AT 730 GMT ON DAY 14 MIN $=980.8$ AT 2020 GMT ON DAY 20
* WINDS (M/S) * MEAN $=5.4$ STD DEV $=3.5$ RESULTANT $=0.7$ FROM 135 . CONSTANCY $=0.14$ MAX $=18.7$ FROM 113 . AT 1330 GMT DAY 10
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $5.0 \%$ PRESSURE: $5.0 \%$ WINDS: $5.0 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

JUL 97

HR PP TT WV DD |  |  | DAY |  |  |  | 1 |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| 00 | 994 | -6 | 9307 |  |  |  | $\begin{array}{lllll}03 & 995 & -7 & 8 & 300\end{array}$ $\begin{array}{lllll}06 & 996 & -7 & 7 & 296\end{array}$ $\begin{array}{llll}09 & 998 & -7 & 3\end{array} 319$ $\begin{array}{llll}12 & 1000 & -7 & 4 \\ 286\end{array}$ $\begin{array}{lllll}15 & 1002 & -8 & 6 & 258\end{array}$

$\begin{array}{lllll}18 & 1003 & -8 & 4 & 257\end{array}$
$\begin{array}{lllll}21 & 1005 & -8 & 3 & 248\end{array}$ DAY 8
$\begin{array}{lllll}00 & 1016 & -9 & 4 & 136\end{array}$
$\begin{array}{llll}03 & 1015 & -10 & 5144\end{array}$
06 1015-10 5139
$\begin{array}{lllll}09 & 1014 & -9 & 5 & 127\end{array}$
12 1013-10 4132 15
$\begin{array}{lllll}18 & 1011 & -9 & 6 & 135\end{array}$
$\begin{array}{llll}21 & 1010 & -9 & 7122\end{array}$ DAY 15

$\begin{array}{lllll}00 & 972 & -7 & 7 & 298\end{array}$ $\begin{array}{lllll}03 & 976 & -7 & 4 & 289\end{array}$ | 06 | 978 | -7 | 2 |
| :--- | :--- | :--- | :--- | $\begin{array}{lllll}09 & 980 & -7 & 4 & 120\end{array}$ $\begin{array}{lllll}12 & 981 & -6 & 5 & 127\end{array}$ 15

$\begin{array}{lllll}18 & 986 & -9 & 5 & 129\end{array}$
$\begin{array}{llll}21 & 988 & -11 \quad 4142\end{array}$ DAY 22
$00 \quad 973-2 \quad 5229$
$\begin{array}{lllll}03 & 971 & -1 & 8 & 262\end{array}$
$\begin{array}{llll}06 & 971 & -10 & 4 \\ 122\end{array}$
$\begin{array}{llll}09 & 971-13 & 8 & 116\end{array}$
$\begin{array}{lllll}12 & 973 & -17 & 8 & 129\end{array}$
$\begin{array}{lllll}15 & 977 & -18 & 11 & 127\end{array}$
$\begin{array}{lllll}18 & 979 & -19 & 8 & 118\end{array}$
$\begin{array}{llll}21 & 983 & -19 & 8 \\ 127\end{array}$ DAY 29
$\begin{array}{llll}00 & 962 & -6 & 7313\end{array}$
$\begin{array}{lllll}03 & 961 & -5 & 5 & 310\end{array}$
$\begin{array}{llll}06 & 962 & -4 & 274\end{array}$
$\begin{array}{lllll}09 & 962 & -6 & 3 & 274\end{array}$

| 12 | 962 | -5 | 5 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lllll}15 & 961 & -4 & 6 & 310\end{array}$
$\begin{array}{llll}18 & 965 & -12 & 5 \\ 215\end{array}$
$\begin{array}{llll}21 & 966-13 \quad 4 & 147\end{array}$

PP TT VV DD PP TT WV DD DAY 3
$\begin{array}{llll}1006 & -8 & 3 & 203\end{array}$
$\begin{array}{llll}1007 & -7 & 4 & 182\end{array}$
$\begin{array}{llll}1007 & -6 & 4 & 175\end{array}$
$\begin{array}{llll}1007 & -6 & 5 & 163\end{array}$
$\begin{array}{llll}1008 & -7 & 2143\end{array}$
$\begin{array}{llll}1008 & -6 & 3 & 102\end{array}$
$\begin{array}{llll}1008 & -8 & 7 & 130\end{array}$
$\begin{array}{llll}1009 & -9 & 4 & 104\end{array}$ DAY 9
$\begin{array}{llll}1010 & -9 & 9 & 133\end{array}$ 1008-10 7143 $\begin{array}{llll}1007 & -9 & 7137\end{array}$ 1006-10 6136 $\begin{array}{llll}1004 & -8 & 8 & 123\end{array}$
$\begin{array}{lll}1003 & -6 & 7111\end{array}$ $\begin{array}{lll}1003 & -6 \quad 6 \quad 126\end{array}$ DAY 16
989-10 6132

$\begin{array}{llll}990 & -11 & 4 & 135\end{array}$ $\begin{array}{lll}991 & -13 & 5\end{array} 147$ $\begin{array}{llll}990 & -13 & 3 & 167\end{array}$ 988-11 1217 $\begin{array}{llll}983 & -8 & 4 & 307\end{array}$ $\begin{array}{lll}976 & -6 & 7309\end{array}$ | 971 | -4 | 6 |
| :--- | :--- | :--- | DAY 23

987-19 7116
990-20 6126
993-21 6120
996-21 6122
998 -21 4105
1000-20 4144 1000-20 4125 1000-20 198 DAY 30
969-14 6136
$\begin{array}{llll}972 & -12 & 3118\end{array}$
973-12 4123
$\begin{array}{llll}976 & -13 & 6 & 135\end{array}$
978-13 4136
$\begin{array}{llll}980 & -14 & 3 & 142\end{array}$
$\begin{array}{lll}980 & -14 & 2130\end{array}$

1008-11 7115
1007-12 7120
1007-12 $6 \quad 127$
1007-12 $4 \quad 95$
1007-11 $3 \quad 80$
1008-11 4108
1009-11 3101
1009-11 4147 DAY 10
$\begin{array}{llll}1003 & -7 & 6147\end{array}$
$\begin{array}{lll}1002 & -6 \quad 7113\end{array}$
$\begin{array}{llll}1001 & -7 & 4 & 140\end{array}$
$\begin{array}{llll}999 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}996 & -8 & 3 & 298\end{array}$
$\begin{array}{llll}992 & -7 & 6 & 284\end{array}$
$\begin{array}{lll}988 & -6 & 7309\end{array}$
$\begin{array}{lll}982 & -6 & 12313\end{array}$ DAY 17
$\begin{array}{llll}967 & -3 & 3 & 261\end{array}$
$\begin{array}{llll}964 & -5 & 12 & 151\end{array}$
$\begin{array}{llll}966 & -7 & 9 & 150\end{array}$
$\begin{array}{llll}968 & -8 & 8 & 153\end{array}$
$972 \quad-5 \quad 10106$
977-12 14126
982-13 10132
986-14 12127 DAY 24
998-17 3320
993-14 6329
$\begin{array}{llll}987 & -9 & 7329\end{array}$
$980-612302$
$\begin{array}{llll}977 & -4 & 11 & 313\end{array}$
$\begin{array}{llll}974 & -3 & 12303\end{array}$
$\begin{array}{llll}977 & -2 & 4 & 265\end{array}$

| 975 | -2 | 5 |
| :--- | :--- | :--- | DAY 31

979-16 1150
974-13 5278
966-12 11135
969-15 11144
$\begin{array}{llll}973 & -17 & 6 & 144\end{array}$
$\begin{array}{llll}973 & -17 & 6 & 123\end{array}$
$\begin{array}{llll}971 & -20 & 8 & 127\end{array}$
$\begin{array}{llll}971 & -20 & 8127 \\ 973 & -20 & 8 & 126\end{array}$
$\begin{array}{rrrr}\text { PP } & \text { TT WV } & \text { DD } \\ \text { DAY } & 4 & \\ 1009 & -11 & 4 & 99 \\ 1008 & -11 & 4 & 123 \\ 1007 & -12 & 5 & 118 \\ 1007 & -12 & 5 & 119 \\ 1006 & -11 & 7 & 125 \\ 1004 & -10 & 8 & 116 \\ 1004 & -10 & 6 & 111 \\ 1002 & -10 & 10 & 120 \\ \text { DAY } & 11 & \end{array}$
$\begin{array}{lll}979 & -5 & 14315\end{array}$
$974-414319$
$971 \quad-4 \quad 9327$
$\begin{array}{llll}967 & -3 & 10 & 336\end{array}$
$\begin{array}{llll}965 & -3 & 6 & 344\end{array}$
$\begin{array}{lll}965 & -3 & 1345\end{array}$

| 965 | -4 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}966 & -4 & 425\end{array}$ DAY 18
990-14 10150
992-13 3172
$\begin{array}{llll}989 & -9 & 6 & 293\end{array}$
$\begin{array}{lll}987 & -3 & 4226\end{array}$

| 983 | -2 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}981 & -5 & 10 & 144\end{array}$
$\begin{array}{llll}987 & -7 & 6 & 144\end{array}$ DAY 25
$\begin{array}{llll}973 & -3 & 4 & 262\end{array}$
$\begin{array}{llll}970 & -3 & 4 & 270\end{array}$
$\begin{array}{llll}968 & -3 & 6 & 223\end{array}$
$\begin{array}{llll}967 & -6 & 5 & 191\end{array}$
968-10 4195
969-11 3167
969-12 6135
970-17 7149


PP IT WV DD DAY 6

| 1011 | -9 | 9 |
| :--- | :--- | :--- |

$\begin{array}{llll}1012 & -9 & 6 & 136\end{array}$
$\begin{array}{llll}1013 & -8 & 9 & 139\end{array}$
$\begin{array}{llll}1015 & -8 & 5 & 119\end{array}$
$\begin{array}{llll}1016 & -7 & 7 & 125\end{array}$
$\begin{array}{lll}1016 & -7 & 7 \\ 146\end{array}$
$\begin{array}{llll}1016 & -7 & 8 & 137\end{array}$
1016 -6 6135
DAY 13

| 968 | -3 | 12 |
| :--- | :--- | :--- |

$\begin{array}{llll}967 & -2 & 4 & 271\end{array}$
$\begin{array}{llll}965 & -1 & 5 & 300\end{array}$
$\begin{array}{llll}963 & -2 & 7300\end{array}$
956 -2 13319
$\begin{array}{llll}959 & -2 & 4 & 262\end{array}$
$\begin{array}{llll}959 & -3 & 1 & 230\end{array}$
$\begin{array}{llll}958 & -4 & 6 & 120\end{array}$ DAY 20
$966 \quad 0 \quad 7232$
$967 \quad 0 \quad 7192$
$\begin{array}{llll}970 & -4 & 4 & 161\end{array}$
$\begin{array}{llll}969 & -5 & 3 & 123\end{array}$
$\begin{array}{llll}967 & -5 & 1 & 66\end{array}$
$\begin{array}{llll}963 & -3 & 4 & 37\end{array}$
$\begin{array}{llll}960 & -3 & 4 & 82\end{array}$
$\begin{array}{llll}961 & -3 & 7 & 130\end{array}$ DAY 27
988-22 3160
987-18 5142
986-16 2153
$\begin{array}{lll}985 & -14 & 2184\end{array}$
$\begin{array}{lll}974 & -9 & 7324\end{array}$
$\begin{array}{llllllll}985 & -16 & 4 & 151 & 968 & -8 & 8 & 312\end{array}$
$\begin{array}{llllllll}986 & -18 & 4 & 137 & 965 & -7 & 7 & 305\end{array}$

MONTHLY SUMMARY

* TEMPERATURE ( $C$ ) * MEAN $=-8.9$ STD dEV $=5.2$ mAX $=0.5$ AT 30 GMT ON DAY 20 MIN $=-23.1$ AT 2130 GMT ON DAY 26
* theta (K) * MEAN = 265.34
* PRESSURE (MB) * MEAN $=985.4$ STD DEV $=17.7$ MAX $=1017.0$ AT 1620 GMT ON DAY 6 MIN $=955.9$ AT 2330 GMT ON DAY 13
* WINDS (M/S) * MEAN $=5.7$ STD DEV $=2.7$ RESULTANT $=1.9$ fROM 150 . CONSTANCY $=0.33$ maX $=17.2$ FROM 312 . AT 140 GMT DAY 11
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $2.8 \%$ PRESSURE: $2.8 \%$ WINDS: $2.8 \%$

WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 $18-20$ 20-25 $25-30$
 $\begin{array}{llllllllllllllll}\text { WIND DIRECTION: } & N & \text { NNE } & \text { NE } & \text { ENE } & E & \text { ESE } & \text { SE } & \text { SSE } & S & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { UNW } & \text { NW } \\ \text { PERW }\end{array}$
percent

AUG 97
HR PP TT WV DD PP TT WV DD PP TT VV DD DAY 1
$\begin{array}{llll}00 & 974 & -23 & 9 \\ 129\end{array}$ $\begin{array}{lllll}03 & 974 & -25 & 11 & 129\end{array}$ $\begin{array}{lllll}06 & 975 & -26 & 9 & 129\end{array}$ $\begin{array}{lllll}09 & 974 & -27 & 10 & 129\end{array}$ $\begin{array}{lllll}12 & 974 & -26 & 8 & 133\end{array}$ $\begin{array}{lllll}15 & 974 & -24 & 13 & 133\end{array}$ $\begin{array}{lllll}18 & 974 & -22 & 9 & 135\end{array}$ $\begin{array}{llll}21 & 975 & -17 & 8 \\ 111\end{array}$ DAY 8
$\begin{array}{lllll}00 & 994 & -2 & 8 & 300\end{array}$ $\begin{array}{lllll}03 & 990 & -1 & 12320\end{array}$ $\begin{array}{lllll}06 & 986 & -1 & 12315\end{array}$
$\begin{array}{llllll}09 & 983 & -1 & 10 & 322\end{array}$
$\begin{array}{lllll}12 & 978 & -1 & 10 & 330\end{array}$
$\begin{array}{lllll}15 & 974 & 1 & 6 & 338\end{array}$
$\begin{array}{lllll}18 & 971 & -1 & 8 & 334\end{array}$
$\begin{array}{llll}21 & 970 & -1 & 6320\end{array}$ DAY 15
$\begin{array}{lllll}00 & 974 & -3 & 13 & 310\end{array}$
$\begin{array}{lllll}03 & 978 & -4 & 9 & 285\end{array}$
$\begin{array}{lllll}06 & 979 & -5 & 6 & 270\end{array}$
$\begin{array}{lllll}09 & 982 & -4 & 9 & 292\end{array}$
$\begin{array}{lllll}12 & 981 & -5 & 15 & 310\end{array}$ 15
$\begin{array}{lllll}18 & 984 & -5 & 14 & 310\end{array}$
21985 -5 15303 DAY 22

00 987-10 10299
$\begin{array}{lllll}03 & 983 & -7 & 14 & 303\end{array}$
$\begin{array}{lllll}06 & 976 & -4 & 15 & 299\end{array}$
$\begin{array}{lllll}09 & 966 & -3 & 17 & 303\end{array}$
$\begin{array}{lllll}12 & 966 & 0 & 9 & 217\end{array}$
$\begin{array}{llll}15 & 964 & 0 & 9226\end{array}$
$\begin{array}{lllll}18 & 961 & 0 & 8 & 236\end{array}$
$21 \quad 956 \quad 0 \quad 7233$ DAY 29
$\begin{array}{lllll}00 & 987 & -2 & 10 & 296\end{array}$
$\begin{array}{lllll}03 & 986 & -2 & 8 & 295\end{array}$
$\begin{array}{lllll}06 & 983 & -3 & 10 & 293\end{array}$
$\begin{array}{lllll}09 & 979 & -2 & 14 & 309\end{array}$
$\begin{array}{llll}12 & 975 & -2 & 14 \\ 306\end{array}$
$\begin{array}{lllll}15 & 971 & -2 & 14 & 316\end{array}$
$\begin{array}{lllll}18 & 967 & -2 & 12312\end{array}$
$21964-29305$

| PP | TT | W | DD |  | PP | TT | VV | DD |
| ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| DAY | 2 |  |  | DAY | 3 |  |  |  |
| 979 | -15 | 5 | 77 |  | 998 | -15 | 8 | 132 |
| 984 | -14 | 4 | 56 | 997 | -14 | 8 | 137 |  |
| 988 | -11 | 7 | 78 |  | 996 | -13 | 5 | 147 |
| 994 | -10 | 5 | 66 | 994 | -11 | 1 | 156 |  |
| 997 | -11 | 9 | 130 | 990 | -9 | 2 | 292 |  |
| 998 | -12 | 6 | 135 | 987 | -9 | 2 | 334 |  |
| 999 | -14 | 8 | 116 | 986 | -6 | 8 | 135 |  |
| 1000 | -16 | 5 | 123 | 985 | -8 | 7 | 144 |  |

$$
\text { DAY } 9
$$

$\begin{array}{llll}970 & -1 & 8 & 302\end{array}$
$\begin{array}{llll}971 & -2 & 6 & 291\end{array}$
971 -2 4302
$\begin{array}{lll}973 & -2 \quad 4309\end{array}$
$973-2 \quad 5313$
$\begin{array}{lll}974 & -1 & 4300\end{array}$

| 975 | -2 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}975 & -2 & 3 & 295\end{array}$
DAY 16
$\begin{array}{llll}984 & -5 & 15 & 310\end{array}$
$\begin{array}{llll}983 & -6 & 13 & 310\end{array}$
$981-512305$
$977 \quad-515313$
$975-4 \quad 9329$
$972-412338$
$970-412340$
$\begin{array}{llll}971 & -3 & 6 & 317\end{array}$ DAY 23
$\begin{array}{llll}955 & -8 & 11 & 130\end{array}$
$\begin{array}{llll}961 & -14 & 15 & 146\end{array}$ $969-18 \quad 9 \quad 149$ $\begin{array}{llll}975 & -19 & 10 & 143\end{array}$
$977-18 \quad 3 \quad 45$
$\begin{array}{llll}978 & -15 & 1 & 106\end{array}$
975 -15 4319
DAY 30
$\begin{array}{llll}961 & -3 & 9 & 295\end{array}$
$\begin{array}{llll}959 & -3 & 3 & 292\end{array}$
$\begin{array}{llll}957 & -4 & 2 & 14\end{array}$
$\begin{array}{llll}956 & -4 & 3 & 164\end{array}$
956-11 17129
958-13 15135
961-13 15142

PP TTV DD DAY 4
977-12 19137
979 -16 16137
981 -14 16133
982-17 20133
983-17 22139
$983-1724144$
984-14 25132
994-13 15129
DAY 11
$\begin{array}{llll}979 & -4 & 3 & 163\end{array}$
$980 \quad-5 \quad 2213$
$\begin{array}{lll}981 & -4 & 3 \\ 291\end{array}$
$\begin{array}{llll}980 & -4 & 6 & 302\end{array}$
$\begin{array}{llll}980 & -3 & 7 & 302\end{array}$
$\begin{array}{lll}980 & -2 & 6 \\ 291\end{array}$
$980-2 \quad 6293$
979 -2 8313 DAY 18
$971-514310$
$971-510317$
$974-511354$
$\begin{array}{llll}977 & -5 & 8 & 341\end{array}$
$\begin{array}{llll}981 & -6 & 6 & 16\end{array}$
$\begin{array}{llll}985 & -6 & 4 & 50\end{array}$
$\begin{array}{llll}988 & -6 & 6 & 126\end{array}$
$990 \quad-9 \quad 10 \quad 126$
DAY 25
973-21 4133
$\begin{array}{llll}974 & -20 & 6 & 122\end{array}$
976-22 9126
$\begin{array}{llll}979 & -24 & 11 & 137\end{array}$
$\begin{array}{llll}982 & -24 & 7 & 137\end{array}$
$\begin{array}{llll}984 & -23 & 2 & 133\end{array}$
983-21 3313
982-18 6300


MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-7.9$ STD DEV $=6.4$ MAX $=0.8$ AT 1520 GMT ON DAY 8 MIN $=-26.9$ AT 950 GMT ON DAY 1
* THETA (K) * MEAN = 266.78
* PRESSURE (MB) * MEAN $=980.0$ STD DEV $=11.2$ MAX $=1005.2$ AT 240 GMT ON DAY 7 MIN $=954.6$ AT 1020 GMT ON DAY 30
* WINDS (M/S) * MEAN $=8.3$ STD DEV $=4.5$ RESULTANT $=1.1$ FROM 255. CONSTANCY $=0.13$ MAX $=25.9$ fROM 137. AT 1820 GMT DAY 4 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $3.2 \%$ PRESSURE: $3.2 \%$ WINDS: $3.2 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
PERCENT
$\begin{array}{lllll} & & \text { DAY } & 1 & \\ 00 & 976 & -14 & 3 & 137 \\ 03 & 978 & -14 & 3 & 139 \\ 06 & 980 & -14 & 4 & 130 \\ 09 & 983 & -14 & 2 & 104 \\ 12 & 985 & -14 & 1 & 84 \\ 15 & 988 & -11 & 2 & 111 \\ 18 & 991 & -10 & 3 & 135 \\ 21 & 993 & -12 & 3 & 136 \\ & & \text { DAY } & 8 & \\ 00 & 993 & -15 & 3 & 132 \\ 03 & 995 & -14 & 3 & 132 \\ 06 & 995 & -14 & 1 & 118 \\ 09 & 996 & -13 & 0 & 0 \\ 12 & 996 & -10 & 0 & 0 \\ 15 & 995 & -8 & 1 & 303 \\ 18 & 995 & -11 & 2 & 182 \\ 21 & 995 & -12 & 2 & 158\end{array}$ DAY 15
$\begin{array}{llll}00 & 967 & -17 & 14 \\ 137\end{array}$
$\begin{array}{lllll}03 & 973 & -19 & 15 & 139\end{array}$
$\begin{array}{lllll}06 & 979 & -20 & 13139\end{array}$
$\begin{array}{llllll}09 & 981 & -19 & 10 & 125\end{array}$
$\begin{array}{lllll}12 & 982 & -17 & 6 & 139\end{array}$
$\begin{array}{lllll}15 & 979 & -14 & 4 & 310\end{array}$
$\begin{array}{llll}18 & 976 & -14 & 6 \\ 317\end{array}$
$\begin{array}{ll}21 & 974-12 \quad 6312\end{array}$ DAY 22
$\begin{array}{lllll}00 & 1009 & -7 & 2302\end{array}$
$\begin{array}{llll}03 & 1009 & -9 & 2319\end{array}$

| 06 | 1010 | -6 | 5 |
| :--- | :--- | :--- | :--- |

$09 \quad 1010 \quad-6 \quad 6303$
$\begin{array}{lllll}12 & 1009 & -5 & 8 & 300\end{array}$
$\begin{array}{lllll}15 & 1009 & -4 & 6310\end{array}$
$\begin{array}{lllll}18 & 1009 & -4 & 8 & 316\end{array}$
$211009-5 \quad 6319$
DAY 29
$\begin{array}{lllll}00 & 996 & -2 & 8 & 182\end{array}$
$\begin{array}{lllll}03 & 996 & -2 & 8 & 154\end{array}$
$\begin{array}{lllll}06 & 997 & -2 & 8 & 153\end{array}$
$\begin{array}{lllll}09 & 998 & -3 & 10 & 150\end{array}$
$\begin{array}{lllll}12 & 1000 & -4 & 9 & 133\end{array}$ 15
$\begin{array}{lllll}18 & 1006 & -7 & 11 & 122\end{array}$
$\begin{array}{llll}21 & 1007 & -7 & 11 \\ 127\end{array}$

PP TT WV DD PP TT WV DD DAY 2
$\begin{array}{llllllll}994 & -13 & 4 & 140 & 1001 & -12 & 4 & 278\end{array}$
$\begin{array}{lllllllll}996 & -14 & 3 & 144 & 1000 & -11 & 7 & 300\end{array}$
$\begin{array}{lllllll}997 & -16 & 4 & 136 & 999 & -9 & 8 \\ 306\end{array}$
$\begin{array}{llllllll}998 & -16 & 4 & 126 & 998 & -9 & 9 & 302\end{array}$
$\begin{array}{llllllll}999 & -16 & 5 & 135 & 995 & -8 & 11 & 306\end{array}$
1001-12 $11105 \quad 993-610310$

| 1001 | -12 | 1 | 355 | 991 | -5 | 11 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

DAY 9 DAY 10
$\begin{array}{llllllll}995 & -12 & 0 & 0 & 977 & -1 & 7 & 185\end{array}$
$\begin{array}{llllllll}995 & -13 & 2 & 57 & 973 & -2 & 4 & 203\end{array}$
$\begin{array}{llllllll}995 & -15 & 2 & 92 & 968 & -2 & 6 & 195\end{array}$
$\begin{array}{lllllll}996 & -15 & 2 & 116 & 963 & -3 & 2 \\ 960\end{array}$
$\begin{array}{llllllll}996 & -14 & 0 & 0 & 954 & -1 & 10 & 189\end{array}$
$\begin{array}{llllllll}992 & -12 & 3 & 270 & 950 & -12 & 19 & 130\end{array}$

$\begin{array}{lllllllll}979 & -6 & 11 & 285 & 958 & -15 & 11 & 154\end{array}$ DAY 16
974-12
972-11
972-11
972-11
972-11
$973-8$
$977-9$
981-10
DAY 23
$\begin{array}{lll}1009 & -5 \quad 6296\end{array}$
$\begin{array}{lll}1010 & -5 & 7324\end{array}$
$\begin{array}{llll}1010 & -6 & 8 & 299\end{array}$
$\begin{array}{llll}1012 & -5 & 6309\end{array}$
$\begin{array}{lll}1013 & -4 & 7296\end{array}$
$\begin{array}{lll}1014 & -4 & 9 \\ 109\end{array}$
$\begin{array}{lll}1014 & -4 & 7312\end{array}$
$1013-4 \quad 8302$ DAY 30
$\begin{array}{llll}1010 & -8 & 7115\end{array}$
$\begin{array}{llll}1013 & -9 & 7122\end{array}$
1015-11 7137
1017-11 5122
1019-10 5130
$\begin{array}{llll}1020 & -8 & 5 & 97\end{array}$
$\begin{array}{llll}1020 & -6 & 4 & 123\end{array}$
$\begin{array}{llll}1021 & -5 & 1 & 112\end{array}$

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PP TT WV DD DAY 4
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$990 \quad-5 \quad 9309$
$\begin{array}{llll}989 & -4 & 10 & 310\end{array}$
$\begin{array}{llll}988 & -3 & 8 & 292\end{array}$

| 988 | -1 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}986 & -1 & 5 & 278\end{array}$
$982 \quad 0 \quad 8248$

| 982 | -1 | 6 |
| :--- | :--- | :--- |

$\begin{array}{llll}983 & -3 & 6 & 136\end{array}$ DAY 11
960-17 11153
961-19 16142
964-19 16136
967-18 16132
$969-1916136$
$\begin{array}{llll}968 & -17 & 5 & 132\end{array}$
$\begin{array}{llll}964 & -17 & 1 & 87\end{array}$

$$
\text { DAY } 18
$$

978-10 11305
$\begin{array}{llll}977 & -3 & 7140\end{array}$
$\begin{array}{llll}978 & -3 & 6 & 163\end{array}$
$\begin{array}{llll}977 & -4 & 3 & 161\end{array}$
$\begin{array}{llll}977 & -5 & 3 & 163\end{array}$
$\begin{array}{llll}977 & -9 & 10 & 150\end{array}$
978-13 13153
981 - 1410129

## DAY 25

$\begin{array}{llll}1013 & -4 & 5 & 298\end{array}$
$\begin{array}{llll}1011 & -4 & 6 & 307\end{array}$
$1009 \quad-3 \quad 4303$
$\begin{array}{llll}1007 & -3 & 3 & 286\end{array}$
$\begin{array}{llll}1005 & -3 & 3 & 310\end{array}$
$\begin{array}{lll}1004 & -1 & 296\end{array}$
$1003 \quad 0 \quad 0 \quad 0$

## PP TT VV DAY 5

$\begin{array}{llll}983 & -5 & 5 & 127\end{array}$
$\begin{array}{llll}984 & -5 & 7132\end{array}$
$\begin{array}{llll}985 & -7 & 8 & 147\end{array}$
986-11 4151
$\begin{array}{llll}986 & -9 & 1 & 251\end{array}$
$\begin{array}{lll}985 & -6 & 1260\end{array}$

| 985 | -7 | 2 |
| :--- | :--- | :--- |

$\begin{array}{lll}984 & -6 & 281\end{array}$ DAY 12
$\begin{array}{llll}963 & -16 & 2 & 87\end{array}$
962-16 5118
962-16 8119
963-17 $8 \quad 123$
963-20 10133

| 964 | -17 | 9 |
| :--- | :--- | :--- |


| 965 | -16 | 9 |
| :--- | :--- | :--- |

$966-16 \quad 9139$ DAY 19
984-13 $8 \quad 116$
987-12 9136
$\begin{array}{lllll}990 & -17 & 13 & 140\end{array}$
993-18 12133
996-17 11135
999-16 $10 \quad 119$
1000-16 11.118 DAY 26
$\begin{array}{llll}1000 & -4 & 1 & 195\end{array}$
$\begin{array}{llll}1000 & -4 & 3 & 170\end{array}$
$\begin{array}{llll}1000 & -4 & 4 & 146\end{array}$
$1001-411126$
$\begin{array}{llll}1002 & -5 & 8 & 123\end{array}$
$\begin{array}{llll}1003 & -5 & 7135\end{array}$
$\begin{array}{llll}1003 & -6 & 8 & 127\end{array}$
$\begin{array}{lll}1003 & -4 & 9 \\ 125\end{array}$

PP TT WV DD DAY 7
$\begin{array}{llll}984 & -11 & 3 & 74\end{array}$ $\begin{array}{llll}986 & -11 & 3 & 104\end{array}$ 986-10 3115 987-11 0 0
988-15 3149
989-15 $\quad 3 \quad 127$
991-13 3137
992-13 3140 DAY 14
987-17 7142 986-18 6156 985-15 5227
978 -14 10298
970-11 12295
$\begin{array}{llll}963 & -4 & 6 & 257\end{array}$
$\begin{array}{llll}963 & -4 & 8 & 158\end{array}$
963 -10 14149
DAY 21
1007-12 0 0 1006-10 2167 $\begin{array}{llll}1006 & -8 & 2184\end{array}$ $\begin{array}{llll}1006 & -7 & 3 & 151\end{array}$ 1007 -6

1008 -4
$\begin{array}{lllllll}1008 & -12 & 2 & 165 & 1008 & -5 & 0\end{array} 0$ DAY 27
$\begin{array}{llll}1003 & -2 & 9 & 133\end{array}$
$\begin{array}{llll}1008 & -2 & 9 & 139\end{array}$
$\begin{array}{llll}1008 & -3 & 6167\end{array}$
$\begin{array}{llll}1007 & -3 & 4 & 208\end{array}$
$\begin{array}{llll}1004 & -2 & 5 & 188\end{array}$ $\begin{array}{llll}1002 & -1 & 9 & 188\end{array}$
$\begin{array}{llll}1005 & -2 & 8 & 147\end{array}$
$\begin{array}{llllllll}1007 & -1 & 5 & 157 & 998 & -1 & 10 & 191\end{array}$
$\begin{array}{llllllll}1006 & -1 & 9 & 143 & 996 & -1 & 8 & 170\end{array}$

MONTHLY SUMMARY

* TEMPERATURE (C) * MEAN $=-9.4$ STD DEV $=5.5$ MAX $=-0.1$ AT 1550 GMT ON DAY 4 MIN $=-20.0$ AT 630 GMT ON DAY 15
* THETA (K) * MEAN $=264.45$
* PRESSURE (MB) * MEAN $=990.5$ STD DEV $=15.4$ MAX $=1021.1$ AT 2330 GMT ON DAY 30 MIN $=948.2$ AT 1340 GMT ON DAY 10
* WINDS (M/S) * MEAN $=6.2$ STD DEV $=3.8$ RESULTANT $=2.9$ FROM 151. CONSTANCY $=0.46$ MAX $=21.6$ FROM 140 . AT 110 GMT DAY 15
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $5.0 \%$ PRESSURE: $5.0 \%$ WINDS: $9.2 \%$

 $\begin{array}{lrrrrrrrrrrrrrrrrr}\text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } & \text { NNW } \\ \text { PERCENT } & 0 & 0 & 0 & 1 & 2 & 11 & 34 & 13 & 5 & 2 & 1 & 2 & 4 & 11 & 10 & 1\end{array}$

OCT 97

HR PP TT VV
$\begin{array}{llllr}00 & 1021 & -6 & 1 & 305 \\ 03 & 1021 & -4 & 0 & 0 \\ 06 & 1020 & -3 & 2 & 151 \\ 09 & 1019 & -3 & 2 & 136 \\ 12 & 1018 & -2 & 4 & 119 \\ 15 & 1016 & -1 & 5 & 120 \\ 18 & & & & \\ 21 & 1013 & -3 & 2 & 75\end{array}$
$\begin{array}{lllll}00 & 966 & -4 & 13 & 337\end{array}$
$\begin{array}{lllll}03 & 969 & -4 & 11 & 337\end{array}$
$\begin{array}{lllll}06 & 970 & -4 & 7 & 338\end{array}$
$\begin{array}{lllll}09 & 973 & -4 & 3 & 310\end{array}$
$\begin{array}{llll}12 & 975 & -3 & 299\end{array}$
15
$\begin{array}{lllll}18 & 980 & -4 & 6 & 281 \\ 21 & 983 & -5 & 8 & 285\end{array}$

|  | DAY |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 0 | 15 |  |  |  |
| 00 | 990 | -12 | 2 | 101 |
| 03 | 988 | -12 | 1 | 357 |
| 06 | 987 | -13 | 1 | 357 |
| 09 | 989 | -12 | 3 | 105 |
| 12 | 992 | -10 | 2 | 99 |
| 15 | 995 | -9 | 3 | 123 |
| 18 | 997 | -7 | 1 | 116 |
| 21 | 998 | -7 | 0 | 0 |
|  |  | DAY | 22 |  |

$\begin{array}{lllll}00 & 975 & -2 & 5 & 167\end{array}$
$\begin{array}{lllll}03 & 975 & -3 & 6 & 165\end{array}$
$\begin{array}{lllll}06 & 976 & -5 & 8 & 157\end{array}$
$\begin{array}{lllll}09 & 978 & -6 & 7 & 139\end{array}$
$\begin{array}{lllll}12 & 979 & -7 & 3 & 132\end{array}$
$\begin{array}{lllll}15 & 981 & -3 & 1 & 87\end{array}$
$\begin{array}{lllll}18 & 981 & -5 & 2 & 240\end{array}$
$\begin{array}{llll}21 & 982 & -6 & 3\end{array}$ DAY 29
$\begin{array}{lllll}00 & 986 & -3 & 12 & 137\end{array}$
$\begin{array}{llllll}03 & 988 & -5 & 11 & 147\end{array}$
$\begin{array}{lllll}06 & 990 & -5 & 6 & 150\end{array}$
$\begin{array}{lllll}09 & 990 & -5 & 6 & 160\end{array}$
$\begin{array}{lllll}12 & 989 & -4 & 1 & 288\end{array}$
$\begin{array}{lllll}15 & 986 & -2 & 8 & 170\end{array}$
$\begin{array}{lllll}18 & 985 & -2 & 9 & 156\end{array}$
$\begin{array}{lllll}21 & 985 & -2 & 7 & 170\end{array}$

PP TT VV DD PP TTVV DD DAY 2
$\begin{array}{lll}1011 & -4 & 1360\end{array}$
$\begin{array}{lll}1009 & -4 & 2302\end{array}$
1007 -5 3295
$\begin{array}{lll}1004 & -5 & 4312\end{array}$
$\begin{array}{lll}1001 & -4 & 6326\end{array}$
$\begin{array}{llll}998 & -3 & 6 & 344\end{array}$
$\begin{array}{llll}996 & -3 & 7 & 337\end{array}$
$993-111313$ DAY 9
$\begin{array}{llll}985 & -4 & 6 & 282\end{array}$
$\begin{array}{llll}987 & -4 & 8 & 296\end{array}$
$\begin{array}{llll}988 & -5 & 6 & 295\end{array}$
$989 \quad-5 \quad 8300$
$\begin{array}{llll}991 & -4 & 8 & 295\end{array}$
$993-2 \quad 3 \quad 298$

|  | DAY | 16 |
| :--- | :--- | :--- |
| 996 | -9 | 5 |
| 9 |  |  |

$\begin{array}{llll}993 & -8 & 7 & 316\end{array}$
$\begin{array}{llll}988 & -6 \quad 12307\end{array}$
$\begin{array}{lllll}986 & -4 & 10 & 306\end{array}$
$\begin{array}{llll}987 & -3 & 9 & 293\end{array}$
$\begin{array}{llll}987 & -2 & 6 & 296\end{array}$
$987 \quad 0 \quad 4223$
$987 \quad 0 \quad 3236$ DAY 23
$\begin{array}{llll}982 & -8 & 7 & 153\end{array}$
$\begin{array}{llll}984 & -8 & 8 & 130\end{array}$
$\begin{array}{llll}985 & -9 & 7 & 129\end{array}$
$\begin{array}{llll}986 & -8 & 4 & 140\end{array}$
$\begin{array}{llll}987 & -7 & 6 & 130\end{array}$
$\begin{array}{llll}989 & -6 & 6 & 129\end{array}$
$\begin{array}{llll}991 & -5 & 6 & 135\end{array}$
$\begin{array}{llll}992 & -6 & 6 & 136\end{array}$ DAY 30
$\begin{array}{llll}984 & -2 & 7 & 172\end{array}$
$\begin{array}{llll}984 & -2 & 6 & 178\end{array}$
$\begin{array}{llll}984 & -2 & 6 & 177\end{array}$
$\begin{array}{llll}983 & -2 & 7 & 167\end{array}$
$\begin{array}{llll}983 & -2 & 8 & 192\end{array}$
$\begin{array}{lllll}981 & -1 & 10 & 182\end{array}$
$\begin{array}{llll}981 & -1 & 7 & 177\end{array}$
$979 \quad-1 \quad 4199$

DAY 3
$\begin{array}{llll}992 & -1 & 9 & 293\end{array}$
$\begin{array}{llll}992 & -1 & 11300\end{array}$
992 -1 9307
$992-111305$
$993-212313$
$994-211302$
$994-113302$
995 -2 15300
DAY 10
DAY 10

DAY 17
$\begin{array}{rrrr}986 & 0 & 4 & 236 \\ 985 & 0 & 5 & 227 \\ 984 & 0 & 5 & 246 \\ 983 & 0 & 5 & 271 \\ 981 & -1 & 9 & 289\end{array}$
$978 \quad 0 \quad 7253$
$979 \quad 0 \quad 6265$ DAY 24
$\begin{array}{llll}993 & -8 & 3 & 139\end{array}$
994-10 4139
995-11 5146
996-12 4139
997-12 7133
$\begin{array}{llll}998 & -9 & 8 & 129\end{array}$
$\begin{array}{llll}998 & -8 & 6 & 111\end{array}$
$\begin{array}{llll}999 & -9 & 6 & 127\end{array}$ DAY 31
$\begin{array}{llll}976 & -2 & 6 & 194\end{array}$
$\begin{array}{llll}974 & -3 & 5 & 181\end{array}$
$971 \quad-4 \quad 5 \quad 153$
$970 \quad-5 \quad 4136$
$\begin{array}{llll}970 & -4 & 6 & 167\end{array}$
$\begin{array}{llll}971 & -3 & 5 & 146\end{array}$
$\begin{array}{llll}971 & -5 & 13 & 142\end{array}$
$\begin{array}{llll}974 & -7 & 8 & 151\end{array}$

PP TT VV DD PP TT VV DD

| 996 | -3 | 10 |
| :--- | :--- | :--- |

$\begin{array}{llll}997 & -3 & 9 & 300\end{array}$
$\begin{array}{llll}997 & -3 & 11 & 302\end{array}$
$996-313303$
$\begin{array}{llll}997 & -3 & 9 & 312\end{array}$
997 -3 11310
$\begin{array}{llll}997 & -3 & 8 & 288\end{array}$

| 997 | -4 | 7 |
| :--- | :--- | :--- |

DAY 11
1004-10 3102
1004-11 130
$\begin{array}{llll}1002 & -9 & 0 & 0\end{array}$
$\begin{array}{llll}1000 & -7 & 3 & 309\end{array}$
$\begin{array}{llll}998 & -5 & 6 & 293\end{array}$
$\begin{array}{lll}995 & -4 & 5312\end{array}$
$\begin{array}{llll}994 & -5 & 6 & 317\end{array}$
DAY 18
$979 \quad 0 \quad 5271$
$\begin{array}{llll}976 & -1 & 8 & 291\end{array}$
$\begin{array}{llll}973 & -1 & 8 & 303\end{array}$
$970-1 \quad 9305$
$\begin{array}{llll}968 & -1 & 9 & 310\end{array}$
PP TT VV DD PP TT VV DD PP TT VV DD
$958 \quad 0 \quad 17298$
$956 \quad 012323$
DAY 25
999-10 7105
998-10 $6 \quad 115$
997-11 7142
996-11 6147
$\begin{array}{llll}996 & -8 & 9 & 118\end{array}$
$996-6 \quad 10132$
$\begin{array}{llll}995 & -3 & 10 & 115\end{array}$
$993-1 \quad 9133$

DAY 5
$\begin{array}{llll}997 & -4 & 8 & 296\end{array}$
$\begin{array}{llll}998 & -4 & 7293\end{array}$
$\begin{array}{llll}997 & -4 & 7300\end{array}$
$\begin{array}{llll}996 & -4 & 6 & 307 \\ 996 & -3 & 7 & 295\end{array}$
$\begin{array}{llll}996 & -3 & 7295\end{array}$
$\begin{array}{llll}995 & -3 & 9 & 303\end{array}$
$\begin{array}{llll}994 & -3 & 9 & 300\end{array}$
$\begin{array}{llll}992 & -3 & 10 & 317\end{array}$
DAY 12
$\begin{array}{lll}994 & -5 & 5333\end{array}$
$\begin{array}{llll}993 & -5 & 3 & 347\end{array}$
$\begin{array}{llll}992 & -6 & 2360\end{array}$

| 991 | -5 | 3 |
| :--- | :--- | :--- |

$\begin{array}{lll}989 & -3 & 232\end{array}$
$\begin{array}{llll}985 & -3 & 4 & 265\end{array}$
$\begin{array}{llll}982 & -3 & 4 & 274\end{array}$
$\begin{array}{lll}977 & -3 & 7288\end{array}$
DAY 19
$\begin{array}{rrrr}949 & 0 & 16320 \\ 945 & -1 & 16303\end{array}$
DAY 6
$991 \quad-312306$
989 -3 11313
$987-210315$
$984-210327$
$\begin{array}{llll}983 & -1 & 7 & 322\end{array}$
$980 \quad 012309$
$\begin{array}{llll}979 & -1 & 10 & 317\end{array}$
$978 \quad 014313$ DAY 13
$\begin{array}{lll}972 & -2 & 684\end{array}$
$\begin{array}{lll}969 & -2 & 5 \\ 240\end{array}$
$\begin{array}{llll}967 & -2 & 9 & 172\end{array}$
$\begin{array}{llll}967 & -2 & 7 & 195\end{array}$
$\begin{array}{llll}966 & -2 & 8 & 184\end{array}$
$\begin{array}{llll}966 & -3 & 7 & 177\end{array}$
$966-611126$
$\begin{array}{llll}969 & -8 & 15 & 144\end{array}$
DAY 20
$\begin{array}{llll}964 & -1 & 7 & 257\end{array}$
$\begin{array}{llll}964 & -1 & 7 & 257 \\ 966 & -2 & 6 & 210\end{array}$
$\begin{array}{llll}966 & -2 & 6 & 210 \\ 968 & -1 & 5 & 244\end{array}$
$\begin{array}{llll}969 & -1 & 6 & 234\end{array}$
$\begin{array}{lll}970 & -1 & 7236\end{array}$
$\begin{array}{llll}970 & -1 & 6 & 251\end{array}$

| 970 | -1 | 5 |
| :--- | :--- | :--- |

$\begin{array}{llll}970 & -1 & 6 & 246\end{array}$
DAY 27
$\begin{array}{llll}992 & -2 & 11 & 136\end{array}$
$\begin{array}{llll}993 & -2 & 8 & 125\end{array}$
$\begin{array}{llll}993 & -2 & 6 & 143\end{array}$
$\begin{array}{llll}993 & -2 & 6146\end{array}$
$\begin{array}{llll}994 & -1 & 9 & 136\end{array}$
$993 \quad 0 \quad 8 \quad 129$
$\begin{array}{llll}993 & -1 & 8139\end{array}$

PP TT WV DD DAY 7
$\begin{array}{llll}979 & -1 & 9 & 307\end{array}$
$978-111313$
978 -2 12302
977 -2 14307
$\begin{array}{lll}976 & -3 & 14 \\ 307\end{array}$
$\begin{array}{llll}972 & -3 & 8 & 330\end{array}$
$\begin{array}{llll}968 & -3 & 13 & 327\end{array}$ DAY 14
973-11 12122
976-12 14136
978-13 15146
983-14 7133
987-13 9135
986-12 14136
$990-1211136$
991 -12 8140

## DAY 21

$\begin{array}{lll}970 & -1 & 547\end{array}$
$\begin{array}{llll}970 & -2 & 5 & 220 \\ 970 & 2 & 4 & 246\end{array}$
$970-2 \quad 4 \quad 246$
$\begin{array}{llll}970 & -2 & 3 & 258\end{array}$
$\begin{array}{llll}970 & -2 & 3 & 237\end{array}$
$\begin{array}{llll}971 & -2 & 4 & 144\end{array}$
$\begin{array}{llll}972 & -2 & 2 & 163\end{array}$
$974-2 \quad 2137$ DAY 28
$\begin{array}{llll}993 & -2 \quad 4 \quad 170\end{array}$
$992-2 \quad 4168$
990 -2 44161
$\begin{array}{llll}989 & -3 & 6 & 167\end{array}$
$\begin{array}{llll}986 & -3 & 4 & 177\end{array}$
$\begin{array}{llll}984 & -3 & 13 & 130\end{array}$

* temperature ( $C$ ) * mean $=-3.9$ Std dev $=3.3$ max $=0.4$ at 1800 GMT ON DAY 18 MIN $=-14.4$ At 910 GMt ON DAY 14
* theta (K) * MEAN $=270.39$
* PRESSURE (MB) * MEAN $=985.4$ STD dEV $=13.1$ maX $=1021.1$ at 20 GMT ON DAY 1 MIN $=944.1$ at 240 GMt ON dAY 19
* WINDS (M/S) * MEAN $=7.1$ STD DEV $=3.7$ RESULTANT $=1.6$ FROM 242. CONSTANCY $=0.22$ MAX $=20.5$ FROM 136. AT 600 GMT DAY 26
* MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $7.7 \%$ PRESSURE: $7.7 \%$ WINDS: $7.7 \%$
 PERCENT
WIND direction: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll}\text { PERCENT } & 2 & 0 & 0 & 0 & 1 & 6 & 22 & 8 & 6 & 2 & 4 & 7 & 4 & 18 & 15 & 4\end{array}$

HR PP TT VV DD DAY 1
$\begin{array}{lllll}00 & 976 & -9 & 11 & 142\end{array}$
$\begin{array}{llllll}03 & 979 & -10 & 10 & 126\end{array}$
$\begin{array}{lllll}06 & 980 & -9 & 10 & 136\end{array}$
$\begin{array}{lllll}09 & 983 & -8 & 11 & 116\end{array}$
$\begin{array}{lllll}12 & 987 & -7 & 9 & 120\end{array}$
$\begin{array}{lllll}15 & 989 & -7 & 9 & 127\end{array}$
$\begin{array}{lllll}18 & 992 & -7 & 7 & 140\end{array}$
$\begin{array}{lllll}21 & 994 & -7 & 8 & 136\end{array}$ DAY 8
$\begin{array}{lllll}00 & 988 & -4 & 5 & 88\end{array}$
$\begin{array}{lllll}03 & 990 & -7 & 9 & 127\end{array}$
$\begin{array}{lllll}06 & 991 & -7 & 8 & 136\end{array}$
$\begin{array}{lllll}09 & 993 & -7 & 6 & 91\end{array}$
$\begin{array}{lllll}12 & 996 & -6 & 3 & 101\end{array}$
$\begin{array}{lllll}15 & 999 & -3 & 3 & 84\end{array}$
$\begin{array}{lllll}18 & 1000 & -4 & 5 & 106\end{array}$
$\begin{array}{lllll}21 & 1002 & -4 & 3 & 116\end{array}$
DAY 15

| PP | Tt | VV | DD | PP |  | vV | DD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DAY | 2 |  |  | DAY | 3 |  |
| 995 | -6 | 4 | 109 | 985 | -3 | 3 | 319 |
| 995 | -6 | 0 | 0 | 985 | -3 | 4 | 320 |
| 994 | -5 | 1 | 268 | 984 | -3 | 6 | 296 |
| 993 | -3 | 5 | 171 | 983 | -2 | 3 | 281 |
|  |  |  |  | 983 | -2 | 3 | 279 |
| 987 | -3 | 4 | 309 |  |  |  |  |
| 985 | -2 | 5 | 322 | 983 | 0 | 2 | 184 |
| 985 | -3 | 3 | 322 | 984 | -1 | 4 | 171 |
|  | DAY | 9 |  |  | DAY | 10 |  |
| 1002 | -6 | 4 | 113 |  |  |  |  |
| 1003 | -6 | 4 | 102 |  |  |  |  |
| 1004 | -7 | 3 | 116 |  |  |  |  |
| 1004 | -7 | 1 | 111 | 1002 | -7 | 2 | 300 |
| 1004 |  | 0 | 0 | 1001 | -5 | 4 | 322 |
|  |  |  |  | 1001 | -4 | 3 | 310 |
|  |  |  |  | 1000 | -4 | 5 | 310 |
|  |  |  |  | 1000 | -3 | 6 | 310 |

DAY 16

00
03
06
09
12
15
18
21

|  | DAY 22 |  |  | DAY 23 |  |  | DAY 24 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | 1000 | -2 | 4313 | 1005 | -2 | 2305 | 1008 | -2 | 3299 |
| 03 | 1001 | -2 | 5310 | 1006 | -3 | 1303 | 1007 | -3 | 3310 |
| 06 | 1001 | -2 | 5316 | 1007 | -3 | 1347 | 1006 | -3 | 4291 |
| 09 | 1001 | -2 | 4306 | 1008 | -2 | 1330 | 1005 | -3 | 5302 |
| 12 |  |  |  | 1009 | -1 | 1300 | 1004 | -3 | 6299 |
| 15 |  |  |  |  |  |  |  |  |  |
| 18 | 1003 | -1 | 6300 | 1009 | 0 | 3299 | 1001 | -2 | 10309 |
| 21 | 1004 | -1 | 4310 | 1008 | -1 | 2298 | 1000 |  | 14305 |

00
03
06
09
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15
18
21

* TEMPERATURE (C) * MEAN $=-3.0$ STD DEV $=2.2$ MAX $=1.9$ AT 1550 GMT ON DAY 26 MIN $=-9.8$ AT 50 GMT ON DAY 1
* THETA (K) * MEAN $=270.80$
* PRESSURE (MB) * MEAN $=992.1$ STD DEV $=9.1$ MAX $=1008.8$ AT 1820 GMT ON DAY 23 MIN $=971.8$ AT 1340 GMT ON DAY 4
* WINDS (M/S) * MEAN $=6.3$ STD DEV $=3.4$ RESULTANT $=2.6$ FROM 304. CONSTANCY $=0.41$ MAX $=18.1$ FROM 329 . AT 20 GMT DAY 26
* MISSING 3-hourly observations * temperature: $36.7 \%$ PRESSURE: $35.8 \%$ WINDS: $35.8 \%$

 WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
$\begin{array}{lllllllllllllllll} & 1 & 1 & 0 & 1 & 3 & 8 & 11 & 2 & 3 & 0 & 3 & 1 & 3 & 24 & 35 & 5\end{array}$

DEC 97


[^7]
[^0]:    * TEMPERATURE ( $C$ ) * MEAN $=-9.3$ STD DEV $=4.1$ MAX $=0.6$ AT 1910 GMT ON DAY 27 MIN $=-18.4$ AT 1000 GMT ON DAY 8
    * theta (K) * MEAN $=270.76$
    * PRESSURE (MB) * MEAN $=913.5$ STD DEV $=5.4$ MAX $=926.9$ at 2020 GMT ON DAY 4 MIN $=902.7$ AT 1610 GMT ON DAY 13
    * WINDS (M/S) * MEAN $=5.0$ STD DEV $=3.0$ RESULTANT $=1.7$ FROM 45. CONSTANCY $=0.33$ MAX $=17.8$ FROM 302. AT 2320 GMT DAY 22
    * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $0.0 \%$
     $\begin{array}{lllllllllllllllllllllll}\text { PERCENT: } & 13 & 29 & 27 & 19 & 8 & 2 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0\end{array}$ WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW $\begin{array}{llllllllllllllllllll}\text { PERCENT } & 10 & 8 & 10 & 11 & 6 & 9 & 10 & 7 & 9 & 3 & 2 & 1 & 3 & 1 & 4 & 8\end{array}$

[^1]:    * TEMPERATURE (C)* MEAN $=-17.5$ STD DEV $=5.7$ MAX $=-5.4$ AT 220 GMT ON DAY 2 min $=-31.6$ AT 1720 GMT ON DAY 16
    * THETA (K) * MEAN = 256.59
    * PRESSURE (MB) * MEAN $=987.9$ STD DEV $=6.0$ MAX $=997.0$ AT 2010 GMT ON DAY 2 MIN $=971.6$ AT 1630 GMT ON DAY 28
    * $\operatorname{WINDS}(M / S)$ * MEAN $=4.7$ STD DEV $=2.8$ RESULTANT $=2.4$ FROM 200. CONSTANCY $=0.52 \mathrm{MAX}=13.5 \mathrm{FROM} 143$. AT 820 GMT DAY 20 * MISSING 3-hOURLY OBSERVATIONS * TEMPERATURE: $1.3 \%$ PRESSURE: $1.3 \%$ UINDS: $1.3 \%$

    WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 $16-18$ 18-20 $20-25$ 25-30 $30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad$ d. PERCENT WIND DIRECTION: $N$ NNE NE ENE $E$ ESE SE SSE $S$ SSW SW WSW $W$ WNW NW NNW percent

[^2]:    * TEMPERATURE (C) * MEAN $=-9.6$ STD DEV $=5.4$ MAX $=-0.9$ AT 2150 GMT ON DAY 20 MIN $=-29.8$ AT 1200 GMT ON DAY 2
    * THETA (K) * MEAN $=264.06$
    * PRESSURE (MB) * MEAN $=993.3$ STD DEV $=10.4$ MAX $=1011.9$ AT 2250 GMT ON DAY 23 MIN $=964.0$ AT 430 GMT ON DAY 3
    * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM O. CONSTANCY $=0.00$ MAX =***** FROM***** AT 0 GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $0.0 \%$ PRESSURE: $0.0 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 $2-4 \quad 4-6 \quad 6-8 \quad 8-1010-1212-1414-16 \quad 16-1818-20 \quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
     WIND DIRECTION: N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

[^3]:    * TEMPERATURE ( $C$ ) * MEAN $=-9.0$ STD DEV $=2.6 \mathrm{MAX}=-1.2$ AT 50 GMT ON DAY 1 MIN $=-15.1$ AT 1730 GMT ON DAY 28
    * THETA (K) * MEAN $=267.11$
    * PRESSURE (MB) * MEAN $=961.8 \mathrm{STD}$ DEV $=5.4 \mathrm{MAX}=973.6$ AT 2040 GMT ON DAY 2 MIN $=948.0$ AT 2120 GMT ON DAY 28 * WINDS (M/S) * MEAN $=5.7$ STD DEV $=3.6$ RESULTANT $=1.8$ FROM 157. CONSTANCY $=0.32$ MAX $=26.8$ FROM 172 . AT 2220 GMT DAY 19 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $4.0 \%$ PRESSURE: $3.6 \%$ WINDS: $3.6 \%$
    
     $\begin{array}{lrrrrrrrrrrrrrrr} \\ \text { WIND DIRECTION: } & \text { N } & \text { NNE } & \text { NE } & \text { ENE } & \text { E } & \text { ESE } & \text { SE } & \text { SSE } & \text { S } & \text { SSW } & \text { SW } & \text { WSW } & \text { W } & \text { WNW } & \text { NW } \\ \text { PERCENT } & 13 & 2 & 2 & 2 & 6 & 13 & 11 & 9 & 13 & 5 & 2 & 2 & 2 & 2 & 6\end{array}$

[^4]:    * TEMPERATURE (C) * MEAN $=-13.4 \mathrm{STD} \mathrm{DEV}=6.7$ MAX $=0.5$ AT 1710 GMT ON DAY 8 MIN $=-28.8$ AT 1920 GMT ON DAY 2
    * THETA (K) * MEAN $=261.44$
    * PRESSURE (MB) * MEAN $=977.9$ STD DEV $=10.3$ MAX $=1004.2$ AT 1740 GMT ON DAY 3 MIN $=957.4$ AT 420 GMT ON DAY 11
    * WINDS (M/S) * MEAN $=0.0$ STD DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX =***** FROM***** AT O GMT DAY 0 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $10.4 \%$ PRESSURE: 10.4 \% WINDS: 100.0 \% WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8 8-10 $10-12$ 12-14 $14-16 \quad 16-18$ 18-20 $\quad 20-25 \quad 25-30 \quad 30-35 \quad 35-40 \quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
     WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW PERCENT

[^5]:    * temperature ( $C$ ) * mean $=-2.0$ std dev $=1.4$ max $=2.9$ at 100 GMT ON DAY 2 MIN $=-4.9$ AT 2050 GMT ON DAY 25
    * THETA (K) * MEAN $=272.85$
    * PRESSURE (MB) * MEAN $=979.1$ STD DEV $=7.1$ MAX $=994.0$ AT 2010 GMT ON DAY 2 MIN $=963.7$ AT 610 GMT ON DAY 19 * WINDS (M/S) * MEAN $=0.0 \mathrm{stD}$ DEV $=0.0$ RESULTANT $=0.0$ FROM 0 . CONSTANCY $=0.00$ MAX $=* * * * *$ FROM***** AT 0 GMT DAY 0 * MISSING 3-hourly observations * temperature: $3.1 \%$ PRESSURE: $3.1 \%$ WINDS: $100.0 \%$ WIND SPEED (M/S): 0-2 2-4 4-6 6-8 8-10 $10-12$ 12-14 $14-16$ 16-18 18 -20 $\quad 20-25$ 25-30 $\quad 30-35$ 35-40 $\quad 40-45 \quad 45-50 \quad 50-55 \quad 55-60 \quad 60+$
     WIND DIRECTION: $N$ NNE NE ENE E ESE SE SSE $S$ SSW SW WSW W WNW NW NNW PERCENT

[^6]:    MONTHLY SUMMARY

[^7]:    * TEMPERATURE (C) * MEAN $=-0.4$ STD DEV $=0.8$ MAX $=1.9$ AT 1750 GMT ON DAY 1 MIN $=-3.4$ AT 150 GMT ON DAY 11
    * THETA (K) * MEAN $=273.24$
    $\star$ PRESSURE (MB) * MEAN $=993.7$ STD DEV $=9.5$ MAX $=1013.2$ AT 1930 GMT ON DAY 2 MIN $=978.1$ AT 2120 GMT ON DAY 21
    * WINDS (M/S) * MEAN $=4.7$ STD DEV $=2.0$ RESULTANT $=3.1$ FROM 305. CONSTANCY $=0.66$ MAX $=15.0$ FROM 302 . AT 1030 GMT DAY 31 * MISSING 3-HOURLY OBSERVATIONS * TEMPERATURE: $35.1 \%$ PRESSURE: $35.1 \%$ WINDS: $35.1 \%$
    
     PERCENT

