



DBNet and Direct Broadcast Packages Technical Sub-Group

Thursday, 30 November 2017 (17.30-19.00)

Chairs: Liam Gumley and Mikael Rattenborg

Graeme Martin, Nigel Atkinson, Dieter Klaes, Mitch Goldberg, Mohamed Dahoui, James Jung, Stephan Bojinski, Allen Huang, Nick Bearson, Geoff Cureton, Kathleen Strabala, Yoichi Hirahara, Norio Kamekawa, Tasuku Tabata, Jessica Braun, Scott Mindock, Niels Bormann, Keyi Chen, Fiona Smith, Jin Woo, Simon Elliott, Pascal Brunel, Gloria Pujol, Ashim Mitra.

Action review, specific points

- Regarding global availability of IASI data from US DBRTN stations, EUMETSAT will seek to clarify the data policy issue, that is currently hindering the redistribution of IASI data from the DBRTN stations.
- Regarding the IASI L-2 processor, EUMETSAT will reconsider providing the IASI Level 2 processor as a software package for DB users.
- Regarding an AMV processor for Direct Broadcast Users, EUMETSAT (Regis Borde, Int Winds WG co-chair) will gauge IWWG interest for DB AMV processing package.
- Regarding the MTVZA pre-processor, the group urged Roshydromet to retain the target for providing a L-1 processor as early as possible.
- Regarding the future FY-3 Direct Broadcast services, FY-3E specs for transmission need to be published by CMA to allow operators to get ready to receive it. FY-3D space to ground ICD or information has not been published. CMA are strongly encouraged to publish the information widely.

Transition to CrIS Full Spectral Resolution

- NOAA-20 CrIS data in FSR will become operational at L+90 (late February), and the group therefore agreed that a transition of DBNet to FSR should be envisaged for both S-NPP and NOAA-20. It was noted that the migration to FSR will only result in a 10% BUFR file size increase.
- The NWP centres should discuss and consolidate their requirements for the transition. Fiona will take the issue to the NWP subgroup. Based on the considerations from the NWP subgroup, the DBNet coordination group will plan the transition to FSR for S-NPP and NOAA-20
- **New action: DBNet coordination group to plan for the CrIS FSR transition, based on the NWP constraints as stated by the NWP subgroup.**

BUFR formats for FY-3 products

- It was noted that DBNet does not currently generate BUFR files in the format used by CMA for the FY-3 global data. This is due to the fact that the correct BUFR sequence is no implemented in ecCodes yet.
- **New action: ECMWF to ensure that ecCodes will support the creation of FY-3 sounder BUFR files in the CMA WMO approved format.**

DBNet satellite priorities

- It was clarified that the current list of priorities reflected the situation in Sep 2016. Niels Bormann/ECMWF stated in light of the NWP impact studies performed regarding the impact of MWHS-2, the FY-3 satellites should be given higher priority and that more DBNet stations should be encouraged to provide sounder data from FY-3.
- The group also stated that NOAA-15 should be dropped from the list of satellites.

DB Software Package Issues: 1 of 3

- It was noted some DB users are not able to install the current version of pre-compiled software packages (e.g., CSPP SDR v3.0), and therefore are not able to process their own DB data.
- The CSPP development team noted that it is not able to build the SDR software on older unsupported operating systems.

Recommendations:

- **To DB software users: plan for operating system updates in order to allow current DB software versions to be installed**
- **To DB software developers: notify the DB user community well in advance of changes in operating system requirements**

DB Software Package Issues: 2 of 3

- It was noted that FY-3D includes the MERSI-2 imager, which has a higher data rate than the previous MERSI-1. There may be implications on the computer hardware needed to process the MERSI-2 DB data.

Recommendation:

- **CMA to publish specifications for the computer hardware required to process DB data from FY-3D.**

DB Software Package Issues: 3 of 3

- The group noted that some operational centers require the source code for DB software packages in order to install and run the software.

Recommendation:

- **To all DB software developers: Ensure that source code is made available to DB users who request it.**