

Issued: 10 May 1977

**MONTHLY REPORT**

**for**

**APRIL 1977**

**VISSR Atmospheric Sounder (VAS)  
Development and Performance Evaluation**

**Contract No.: NAS5-21965**

**Prepared by**

**Space Science and Engineering Center  
The University of Wisconsin  
Madison, WI**

**for**

**National Aeronautics and Space Administration  
Goddard Space Flight Center  
Greenbelt, MD**

## I. General

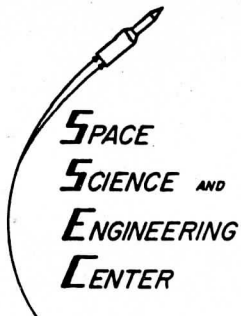
In the past month a rough draft of the VAS "ADP Feasibility Study" required by NASA for initiation of ADP procurement was written. This document will supplement the VAS proposal with information on the size and speed of the components of the VAS processing system and on the facility requirements, utilization and maintenance. Submission of the study is scheduled for early June.

## II. Data Processing System Development

Using available surplus equipment an antenna system has been constructed to receive the ITOS signal from the NOAA-5 spacecraft directly. Motors for tracking have been refurbished, preamp and receiver have been checked out, and initial attempts at real time reception and tracking are being made. We intend to receive Vertical Temperature Profile Radiometer (VTPR) and other digital data via the ITOS Beacon Transmitter. In the process we will test the Madison background noise level which will affect the TIROS-N reception also.

## III. Development of VAS Data Processing Techniques

The investigation of HIRS and SCAMS data on McIDAS is continuing. Man interactive tools for sounding analysis are under development. The unusually long period of McIDAS down time this past month has slowed down our efforts.



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THE UNIVERSITY OF WISCONSIN

10 May 1977

Mr. J. B. Connor  
Contracting Officer, Code 289  
NASA--Goddard Space Flight Center  
Greenbelt, MD 20771

Dear Mr. Connor:

In accordance with Article III of Contract NAS5-21965, I am submitting the required Progress Report for the month of April, 1977.

If you have any questions or desire further information, please contact me at (608) 262-0118.

Sincerely,

Paul Menzel  
Program Manager

WPM/rmk

Enclosure

cc: H. Montgomery, Code 942 (10 copies)