Greenbelt, MD
Goddard Space Flight Center
National Aeronautics and Space Administration
for
Madison, WI
The University of Wisconsin
Space Science and Engineering Center
Prepared by

Contract No.: NASS-21965
Development and Performance Evaluation
VASSR Atmospheric Sounder (VAS)

November 1976
for
Monthly Report

Issued: 10 December 1976
meant which can be aligned east-west. East-west misalignment, if known accurately,

on the filter which causes a 13 random materialment and 30�� material-

another possible source of registration error. The cocking of the filters

Conversations with P. Malinowski or Santa Barbara Research Center revealed

II. VAS Instrument Support

VAS System Definition Review.

Documentation submitted to NASA during the month consisted of the W/SSC

can be done. And the SSC effort now will focus on determination of what

conceptually demonstrated. The system definition was a summary of what

techniques for system evaluation and optimization with man interaction were

atmosphere. The status of the basic procedures involved was presented and

state parameters, and (d) modeling to predict the future state of the

produce a complete and consistent four dimensional data set of atmospheric

to extract meteorological parameters. (c) synthesis of the parameters to

os by data to obtain physical observables. (b) analysis of the observables

The general definition of system elements were identified as (a) collection

requirements of the system and the strategy for meeting these requirements.

Westinghouse S. Kay, The VAS System Definition Emphasized the functional

Computer Sciences Corporation, D. Pearson, D. Chester, and H. Wittling; from

National Oceanic and Atmospheric Administration, C. Hayden and D. Small; from

R. Pharr, Montgomery, K. Snugger, J. Dalton, and D. Burkes; from

University of Wisconsin. In attendance were from Goddard Space Flight Center

On November 9, 1976 the VAS System Definition Review was held at the
Data

Emphasis on new display techniques for man interaction with four-dimensional data transfer rates. Elements of a system design are being discussed with cryptographic weather data, radar, ... the storage requirements, and the parameters from the various meteorological data sources (TAS, VAS, TISSR, TIRS-N, DMP).

to determine the magnitude of the processing effort for extracting meteorological data on the system design. Review of the system requirements. Quantitative assessments are being made efforts are underway to determine the data processing requirements based on the IV. Data Processing System Development

to be 1.2% of a large detector FOV.

equal time sample (real or augmented). Peak misregistration is anticipated equal and then equal angle samples are given the value of the nearest internal and thus equal angle samples are given the value of the nearest three point Lagrangian interpolation at every sixteenth of the equal time three data point with the present scheme equal time sample is augmented by a time data point at the present scheme equal re-processing of equal time data point.

Incorporation of registration errors caused by equidistant re-processing of equal time data point with system design analyses.

III. System design analyses

remain the same.

Previous studies of VAS registration errors (ISARC report February 24, 1976) is still below 1% of a large detector FOV and conclusion drawn from a the anticipated total misregistration including the filter tracking are

misregistration introduces a misregistration of 3.4% of a large detector FOV.

can be corrected for and causes no new problems. The ISARC random...
cc: H. Montgomery, Code 726 (10 copies)

John Doe

LAS/UXK

L. A. Stovrova-

Sincerely,

[Signature]

Mr. Hessman

Greenbelt, MD 20771
NASAGoddard Space Flight Center
Contracting Officer, Code 287

In accordance with Article III of Contract NAS5-21965, I am submitting the required progress report for the month of November, 1976.

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

10 December 1976

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