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STUDY OF THE UTILIZATION OF EREP DATA FROM THE WABASH RIVER BASIN

Project #SR397

Contract #NAS 9-13301

Skylab/EREP Monthly Report for March 1975

Principal Investigations Management Office

Lyndon B. Johnson Space Center

Technical Monitor - Dr. R. E. Joosten

Submitted By

Dr. LeRoy F. Silva

Laboratory for Applications of Remote Sensing

Purdue University

1220 Potter Drive

West Lafayette, IN 47906

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Activities during the subject reporting period were concerned with analysis of the SL/2 filtered and interim S192 data sets and the SL/4 S192 data set.

(A) Overall Status

The digitized SL/4 S190A color IR photography was reformatted into LARSYS format. Work will begin on it in April.

Selection of training and test areas for the interim and filtered SL/2 S192 data sets were completed. Classifications of the test site are being done with different combinations of channels.

The SL/4 S192 data was registered correctly and rotated so that the top of the imagery is due north. The thermal band was "calibrated" to equivalent black body temperature for the different land use classes. Land use classifications of Allen County, Indiana, are being done. A meeting has been scheduled with the Allen County Plan Commission to help evaluate the data and the preliminary results.

The S192 tape with band 8 for the SL/2 test site was received.

(B) Scientific Recommendations

No recommendations are being made this period.

(C) Expected Accomplishments

Analysis will continue on the SL/2 S192 filtered and interim data sets with different combinations of channels. Work will also continue on the SL/4 S192 data.

(D) Significant Results

The results so far indicate that filtering the S192 data helped improve the data for machine processing. Bands 1 and 2 were improved considerably. Since bands 4, 5, 6 and 12 were unavailable, no conclusions can be drawn for those bands. Little change has been shown so far in the other bands.

(E) Travel Summary

No travel was made during the subject reporting period. A trip is planned in April to Fort Wayne, Indiana for a meeting with the Allen County Plan Commission.

Report Submitted by
LeRoy F. Silva
Laboratory for Applications of
Remote Sensing
Purdue University
1220 Potter Drive
West Lafayette, IN 47906

Contract Monitor
Dr. R. E. Joosten
Code TF-6
Johnson Space Center
NASA
Houston, TX 77058

LB:kac