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INFRARED AND OPTICS DIVISION

25 June 1973

101700-6-L

National Aeronautics and Space Administration
 Johnson Space Center
 Principal Investigator Management Office
 Houston, Texas 77058

Attention: Mr. Timothy White/TF6

Subject: First Quarterly Report, 8 March through 31 May 1973
 Contract NAS9-13272

Gentlemen:

This report covers progress during approximately the first quarter of the Contract NAS9-13272, "Study of Atmospheric Effects in Skylab Data", EREP No. 410M. The work is conducted in the Infrared and Optics Division of the Environmental Research Institute of Michigan under the general supervision of Mr. R. R. Legault. The Principal Investigator is Mr. F. J. Thomson.

OVERALL STATUS

To date preparations for field measurements in support of anticipated Skylab SL-2 overpasses on Track 61 were made. The type of measurements were described in report 101700-2-L, Ground Truth Plan, previously submitted. Preparation consisted of assembling, calibrating, and checking out the field equipment to be used and the determination of a site for ground measurements five miles southeast of Williamston, Michigan. The selected site is in the middle of the crossover region between Tracks 1 and 61 and is just south of the center of the aircraft flightlines.

Aircraft data requirements were coordinated with Mr. Jim Weber and ERIM personnel at a quarterly scheduling meeting on aircraft scheduling held at ERIM. Further discussions with the flight crew at ERIM have refined the aircraft data requirements.

RECOMMENDATIONS FOR ACTION

To date, a sample 7 track, 800 bpi digital tape illustrating the format of scan line straightened S-192 data has not been received. This product was requested in the MRD. A letter to and conversation with the Technical Monitor document the need for such a product for orderly progress on programming conversion modules from the expected formats to one compatible with our 7094 computers.

(E73-11043) STUDY OF ATMOSPHERIC EFFECTS
 IN SKYLAB DATA Quarterly Report, 8 Mar.
 - 31 May 1973 (Environmental Research
 Inst. of Michigan) 2 p HC \$3.00

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EXPECTED ACCOMPLISHMENTS DURING NEXT PERIOD

The next quarter will cover some SL-2 and SL-3 planned passes. We will support those passes where data is being taken with ground measurements, which will be reported in a timely manner to the people named in the ground truth plan. We do not anticipate receiving data from SL-2 in the next quarter, but if screening images arrive, they will be promptly reviewed and requests for digital tape generated. Programming of a tape format conversion module will begin as soon as possible, but the amount of effort that can be expended before a sample data tape is required is small.

SIGNIFIGANT RESULTS

None

SUMMARY OUTLOOK

The remaining effort to be performed is substantially all the effort of the contract as presented in the milestone plan.

TRAVEL SUMMARY AND PLANS

None

Respectfully submitted:

Frederick J. Thomson
Principal Investigator

APPROVED BY:

Richard R. Legault
Director
Infrared and Optics Division

FJT/RRL/dlc