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Battelle

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July 9, 1973

NASA Johnson Space Center
Principal Investigation
Management Office
Houston, Texas 77058

Attention Mr. Zack H. Byrns, Code TF6

Dear Mr. Byrns:

Fourth Progress Report
Calibration and Evaluation of Skylab Altimetry
for Geodetic Determination of the Geoid (Contract NAS9-13276)
June 1 to June 30, 1973

PROGRESS

During this period, we completed the development of the computer program required in the reduction and analysis for calibration and evaluation of the S-193 Skylab Altimeter range data.

This program is being tested and validated with simulated data involving ground track and Skybet ephemeris data provided by JSC and geoidal undulation data generated by Battelle for the same ground tracks. We received and reviewed the following documents:

- (1) Skylab Earth Resources Investigation (February, 1973),
- (2) Earth Resources Production Processing Requirements for Aircraft Electronic Sensors, PHO-TR523, (February, 1973), and
- (3) Copies of Postpass Summary Reports of EREP 4, 6, and 7 Passes from SL-2 for computer simulation.

PROBLEMS

No significant problems were encountered.

RECOMMENDATIONS

None at this time.

(E73-10876) CALIBRATION AND EVALUATION
OF SKYLAB ALTIMETRY FOR GEODETIC
DETERMINATION OF THE GEOID Progress
Report, 1-30 Jun. 1973 (Battelle Columbus
Labs., Ohio.) 2 p HC \$3.00 CSCL 09B

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NEXT PERIOD

During the next period, we expect to (1) complete the simulation of data and validation of the computer program, (2) perform error analyses and establish performance criteria and (3) participate with JSC, if required, in the planning of EREP passes for the SL-3 mission.

TRAVEL

No travel was made during this period. No travel is planned for next period unless requested by NASA.

RESULTS

There are no numerical results to be transmitted to you at this time.

SUMMARY OUTLOOK

The remaining effort to be performed on this contract is proceeding according to plans. The total funds allotted for this contract have been received at Battelle, thus eliminating the "Limitation of Government's Obligation" clause.

Very truly yours,



A. George Mourad
Principal Investigator
Project Manager, Geodesy & Ocean Physics
Transportation and Space Systems Department

AGM:hlg

Enc.

cc: Mr. V. M. Dauphin, Mail Code TF, NASA-JSC, Houston, Texas (1)
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