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Quarterly Status and Technical Progress Report #8

(Covering the Period 1 October 1981 to 31 December 1981)

NASA Contract NAS5-25957 (MAGSAT)


Investigation of Geomagnetic Field Forecasting and Fluid Dynamics of the Core

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TYPE II
1. **Problems**
None

2. **Approach**
No new approaches have been developed during this reporting period.

3. **Accomplishments**
This quarter's effort concentrated on bringing together a number of results achieved on this project, which are discussed in previous progress reports, and writing up three papers for the special Magsat issue of Geophysical Research Letters being edited by Dr. R.A. Langel. Those papers present a concise summary of accomplishments to date.

4. **Significant Results**
These are the subject of the three papers listed below.

5. **Publications**
The following papers have been submitted to Geophysical Research Letters (the first paper is accepted; the second is accepted after minor revision; no information is yet available on the status of the third).

   
   b. Voorhies, C.V. and Benton, E.R., "Pole-strength of the Earth from Magsat and Magnetic Determination of the Core Radius".

6. Recommendations
None

7. Data Utility
Papers a, b, c above all rely heavily on MAGSAT data. Paper b, especially, makes indispensible use of the Goddard models of the data.