

1N-46-CR

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# TECTONIC HISTORY OF THE TERRESTRIAL PLANETS

## FINAL TECHNICAL REPORT

### TO THE

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

### NASA GRANT NSG-7297

October 1, 1976 - September 30, 1989

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2 February 1990

(NASA-CR-186309) TECTONIC HISTORY OF THE  
TERRESTRIAL PLANETS Final Technical Report,  
1 Oct. 1976 - 30 Sep. 1989 (MIT) 13 p  
CSCL 08G

N90-17229

Unclas

G3/46 0260740

This is a final summary report of research conducted under NASA Grant NSG-7297, "Tectonic History of the Terrestrial Planets." Research support under this grant was provided incrementally over a 13-year period, from October 1, 1976, through September 30, 1989.

Over its duration, this grant has supported the research, on behalf of the NASA program in Planetary Geology and Geophysics, of one senior investigator, three research staff members, 10 graduate research assistants, and a number of undergraduate assistants and supporting staff. The Principal Investigator was S.C. Solomon; research staff members included G. Consolmigno, R.E. Grimm, and T. Matsui. Graduate students included S.R. Bratt, R.P. Comer, R.E. Grimm, J.L. Hall, P.Y. Huang, P.J. McGovern, N. Namiki, S.K. Stephens, C.H. Thurber, and K. Yomogida. Several of these last two groups of individuals are now investigators in their own right in the research programs of NASA and other agencies.

It is impossible in a single brief summary to convey the full range of research results that have come from this project over the last 13 years. The sweep of subjects covered ranges widely over the broad areas of the thermal and tectonic evolution of the terrestrial planets. A full list of all publications supported by this grant follows the text of this report. The list includes 48 published journal articles, 2 papers currently in press, 3 chapters of books, 4 M.I.T. theses, one technical report, and 107 published abstracts and extended abstracts. All of these publications have been submitted separately to NASA at the time of publication or submission and as part of annual progress reports.

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