A STUDY OF THE ELECTRICAL PROPERTIES AND MINERALOGY OF THE SURFACE OF VENUS

NAGW 3447

ANNUAL PROGRESS REPORTS NOS. 1, 2, 3 AND 4

For the Period 15 March 1993 through 14 January 1997

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May 1997

Prepared for National Aeronautics and Space Administration
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The Smithsonian Astrophysical Observatory
is a member of the
Harvard-Smithsonian Center for Astrophysics

Annual Progress Reports 1, 2, 3, 4
For the period 3/15/1993 - 1/14/97
NAGW 3447, A Study of the Electrical Properties and Mineralogy of the Surface of Venus
John A. Wood, P.I.

In the period named, P.I. Wood and his Postdoctoral Associate C. A. Robinson published or submitted for publication the following papers and abstracts, which address the subject of NASA Grant NAGW 3447.

Robinson, C. A. (1993) Subduction on the margins of coronae on Venus: Evidence from radiothermal emissivity measurements. *Lunar Planet. Sci.* **XXIV**, 1205-1206.

Robinson, C. A. (1994) The weathering process on Venus takes 2-3 hundred million years: Evidence from radiothermal emissivity signatures at coronae. *Lunar Planet. Sci.* **XXV**, 1137-1138.

Robinson, C. A. (1994) SO_2 and CH_4 levels in the Venusian atmosphere, measured by Pioneer Venus: Caused by plinian-style volcanic activity at Maat Mons? *Lunar Planet. Sci.* **XXV**, 1139-1140.

Robinson, C. A. (1995) Magellan reveals Venus. *Astronomy* (February issue), 32-41.

Robinson, C. A. and J. A. Wood (1993) Recent volcanic activity on Venus: Evidence from radiothermal emissivity signatures. *Icarus* **102**, 26-39.

Wood, J. A. (1994) Occurrences of low-emissivity surface material at low altitudes on Venus: A window to the past. *Lunar Planet. Sci.* **XXV**, 1509-1510.

Wood, J. A. (1996) Must the Venus surface material contain hematite? *Lunar Planet. Sci.* **XXVII**, 1451-1452.

Wood, J. A. (1997) Rock weathering on the surface of Venus. In *Venus II* (eds. S. W. Bougher, D. M. Hunten, R. J. Phillips). Tucson: Univ. Arizona Press, in press.

Wood, J. A. and R. Brett (1997) Comment on "The Rate of Pyrite Decomposition on the Surface of Venus." *Icarus*, in press.

The following paper, describing research performed in the grant period, is in preparation.

De Roo, R. D., C. A. Robinson, F. T. Ulaby, and J. A. Wood (1997) Complex dielectric constants and magnetic permeabilities of mineral mixtures.