

Technical Page

Proposal Type: Regular
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 45 Hours

Proposal Title: Radar Observations of Mercury and Venus (Solar Wind) in 2000

ABSTRACT:

We propose a modest program of S-band radar observations of Mercury and Venus for the summer of 2000. The Mercury observations will be delay-Doppler measurements for imaging selected regions of the planet, including the radar-bright "ice" features at the north pole, two of the large radar features ("A" and "B") in the unphotographed hemisphere, and several regions of interest in the photographed hemisphere. The Venus observations will be made just after superior conjunction and are intended to study the spectral broadening effects of turbulence in the intervening solar wind very close to the Sun.

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Instrument Setup

S-Band radar S-band receiver

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned