Proposal Type: Regular
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 90 Hours

Proposal Title: S-Band Radar Observations of Titan and Iapetus in 2000

ABSTRACT:
Time is requested for S-Band radar observations of the satellites Titan and Iapetus to be made near opposition of the Saturn system in November 2000. Observations of Titan in 1999 provided the first 12.6 cm detection of Titan and allowed estimates of its mean cross section, circular polarization ratio and scattering properties. The proposed observations are aimed at measuring these properties as a function of longitude. No observations of Iapetus were made in 1999 due to transmitter problems. The proposed 2000 observations are aimed at measuring the cross section and polarization ratio to investigate Iapetus’ average scattering properties and, if possible, to look for differences between the leading and trailing hemispheres.

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<tr>
<th>Name</th>
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I NA want to do remote observing.

Instrument Setup
S-Band radar S-band receiver

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned
2380 MHz