

Technical Page

Proposal Type: Regular
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 48 Hours

Proposal Title: S-Band Arecibo Radar Observations of Titan

ABSTRACT:

We are proposing twelve new 12.6 cm radar observations of Titan in January, 2005 extending our coverage of sub-earth locations to investigate the properties and occurrence statistics of the specular returns from Titan and to study the radio wavelength scattering properties of the high near-IR albedo "bright spot" centered on 100 deg longitude. With the imminent arrival of Cassini in the Saturn system it will soon be possible to compare new and past Arecibo results on Titan with near-IR global imagery and 2 cm radar imagery of some areas on Titan.

Name	Institution	E-mail	Phone	Student
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Service Observing Request

Remote Observing Request

- | | |
|---|--|
| <input checked="" type="checkbox"/> None
<input type="checkbox"/> All of the observing run.
<input type="checkbox"/> Part of the observing run.
<input type="checkbox"/> Queue Observing | <input checked="" type="checkbox"/> No
<input type="checkbox"/> Maybe
<input type="checkbox"/> Yes |
|---|--|

Instrument Setup

S-Band radar S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned