Technical Page

Proposal Type: Regular
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 20.3 Hours
Minimum Useful Time: 2.5 hours

Proposal Title: Radar Imaging Observations of Mercury: March-2012 Conjunction

ABSTRACT:
This proposal is to make S-band radar observations of Mercury during the planet’s March-2012 inferior conjunction. The primary objective of the observations is to obtain delay-Doppler images of the putative south polar ice deposits at a longitude aspect opposite that of the 2005 Arecibo imagery. The same data will also be used to make improved images of certain non-polar areas, including the interesting Caloris and circum-Caloris regions.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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</thead>
<tbody>
<tr>
<td>John K Harmon</td>
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<td>787-878-2612</td>
<td>no</td>
</tr>
</tbody>
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Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

- S-Band radar
- S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

2375-2385