Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 2.25 Hours
Minimum Useful Time: 0.75

Proposal Title: Radar Observations of Potential Spacecraft Mission Target 2017 BW

ABSTRACT:
We request a total 2.25 hours of telescope time on February 14 and February 15 prior to project R3142 to observe recently discovered near-Earth asteroid 2017 BW. 2017 BW is a potential alternate target for the NASA Asteroid Redirect Mission (ARM) and, according to ARM mission investigator Dan Mazanek, could be selectable if the presence of boulders can be inferred with radar observations. Thus, it is of very high priority for NASA and specifically requested by Lindley Johnson. Little is known about this object other than its absolute magnitude of 23.4, which implies a diameter within a factor of two of 65 meters, and a suggested rotation period of about 15 hours.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patrick A Taylor</td>
<td>Arecibo Observatory</td>
<td><a href="mailto:ptaylor@naic.edu">ptaylor@naic.edu</a></td>
<td>787-878-2612 x358</td>
<td>no</td>
</tr>
</tbody>
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Remote Observing Request

- [X] 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