Technical Page

Proposal Identification No.: R2372
Date Received: 2007-Oct-01 20:55:03

Proposal Type: Long-term
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 95.25 Hours
Minimum Useful Time: 75

Proposal Title: Continuation of a long-term radar survey of main-belt X, M, and E-class asteroids.

ABSTRACT:
We propose to observe eight (8) M-class MBAs, 2 E-class MBAs, and 1 rapidly rotating near-Earth object. Our primary objectives are to continue our examination of main-belt M-class objects to discover which, if any, are metallic, what physical characteristics those objects have in common, and to continue to explore the radar characteristics of E-class asteroids. Our proposed NEA is a potential binary asteroid with sufficient SNRs to image, shape model, and (if binary) determine mass and bulk density.

<table>
<thead>
<tr>
<th>Name</th>
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<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