Proposal Identification No.: R2093

Date Received: 2005-Mar-09 16:49:46

Technical Page

Proposal Type: Urgent
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 18 Hours

Proposal Title: Urgent Proposal for Radar Imaging of Near-Earth Asteroid 2005 EU2

ABSTRACT:
We propose to obtain high-resolution (15m) imaging of near-Earth asteroid 2005 EU2 in March and April of 2005. Recent experience has shown that there is an enormous variety in the shapes, radar reflectivities, and rotation states of near-Earth asteroids. Good imaging opportunities for relatively small objects such as 2005 EU2 (100m diameter) occur only a few times per year. Radar imaging can help determine the internal structure by giving us information about the size, spin rate and even density in the case of binary systems.

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<thead>
<tr>
<th>Name</th>
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<th>Student</th>
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<tbody>
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<td>No</td>
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Service Observing Request

- X None
- [ ] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

Remote Observing Request

- X No
- [ ] Maybe
- [ ] Yes

Instrument Setup

S-Band radar
S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

2380