Technical Page

Proposal Type: Regular
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 57.5 Hours
Minimum Useful Time: 3 days per target

Proposal Title: Arecibo radar imaging of four very strong near-Earth asteroids during July-September 2008

ABSTRACT:
We propose delay-Doppler radar imaging, physical modeling, satellite searches, and orbital refinement of near-Earth asteroids 1996 HW1, 1998 UO1, 2003 YE45, and 2005 RC34, which are very strong targets during July-September 2008. 1996 HW1 is among the largest objects in the near-Earth population. 1998 UO1 is a rapid 2.9-hour rotator that is a prime candidate for being a binary system. 2003 YE45 and 2005 RC34 are extremely strong targets and imaging at 7.5 m resolution could place thousands of pixels on their surfaces and reveal considerable detail.

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

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned