

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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Remote Observing Request

- 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