

## Technical Page

Proposal Type: Regular  
 General Category: Planetary Radar  
 Observation Category: Solar System  
 Total Time Requested: 108.5 Hours  
 Minimum Useful Time: 1.25 hr per each track

**Proposal Title:** Arecibo Radar Imaging of Seven Near-Earth Asteroids During October 2009 - January 2010

*ABSTRACT:*

We propose Arecibo S-band radar observations of seven strong targets from October, 2009 to January, 2010. Five objects have absolute magnitudes  $H < 18$  and may thus be more than 1 km in diameter. Not much is known about these asteroids currently. We plan to do Doppler-only observations, ranging, and high-resolution delay-Doppler imaging of all of the proposed targets. Our goals include detailed physical characterization of the asteroids, search for the potential satellites and orbital improvements, as well as, (data permitting) the shape modeling studies.

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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