Proposal Identification No.: R2957 Date Received: 2014-Sep-01_22:32:07

Technical Page

This proposal has not been submitted before.

Proposal Type:	Regular
General Category:	Planetary Radar
Observation Category:	Solar System
Total Time Requested:	150 Hours
Minimum Useful Time:	2 hours

Proposal Title: Radar Characterization of NEAs: Using Moderate Resolution Imaging, Astrometry, and a Systematic Survey

ABSTRACT:

The NASA support for the planetary radar program at Arecibo Observatory is now 800 hours/year, of which at least 500 hours/yr are devoted to near-Earth asteroids (NEAs). This proposal covers the time request for the second-best imaging opportunities, radar astrometry, and systematic survey time. Radar characterization of NEAs is valuable, even at the lower signal-to-noise levels that precludes high-resolution imaging. Overall shape determination, astrometry to improve the orbit solution, and regular surveys to observe new objects and targets of opportunity all yield valuable scientific results.

Name	Institution	E-mail	Phone	Student
Ellen Howell	Arecibo Obs	ehowell@naic.edu	787 878-2612 x282	no

Remote Observing Request

- [X] 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

2380 MHz