

Proposal Identification No.: R2791

Date Received: 2012-Sep-04_19:49:55

Technical Page

Proposal Type: Regular
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 191.5 Hours
Minimum Useful Time:

Proposal Title: Arecibo Radar Observations of 19 Near-Earth Asteroids during January-June, 2013

ABSTRACT:

We propose to observe 19 near-Earth asteroids with the planetary radar to obtain detailed images with resolutions up to 7.5 m/pixel; estimate 3D shapes, rotation periods, and pole directions; discern surface features; search for satellites; and improve asteroid orbits. Our targets include objects between 20 meters to several kilometers in diameter, with a wide range of rotation periods and compositions, and features several objects that should provide images comparable in their detail to those obtained by spacecraft flyby missions.

Name	Institution	E-mail	Phone	Student
Lance A. M. Benner	Jet Propulsion Laboratory	lance.benner@jpl.nasa.gov	818-354-7412	no

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