

Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 2.5 Hours
 Minimum Useful Time: 1.0

Proposal Title: Radar Observations of Near-Earth Asteroid 2015 XA379

ABSTRACT:

We request 1 observing track of 2.5 hours from 22:30 to 01:00 AST on February 1/2 to observe near-Earth asteroid 2015 XA379. This object is on the NHATS list of dynamically accessible asteroids of interest to NASA for possible future robotic and crewed missions and observations were specifically requested by NASA. Very little is known about this object other than its absolute magnitude of 25.3, which suggests a diameter of 25 meters (within a factor of two). Detection with radar will improve our knowledge of its orbit, estimate its rotation rate and surface properties, and possibly provide a size estimate.

Name	Institution	E-mail	Phone	Student
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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