

Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 10.25 Hours
 Minimum Useful Time: 1.0

Proposal Title: Radar observations of near-Earth asteroids 2015 KJ57, 2015 TC25, and 2015 TD144

ABSTRACT:

We request four (4) tracks to observe near-Earth asteroids 2015 KJ57, 2015 TC25, and 2015 TD144. 2015 KJ57 is a potentially hazardous asteroid (PHA). 2015 TC25 is of interest to NASA and the community and is suspected to be only a couple of meters in size; therefore, this is an opportunity to observe a very small asteroid. Both 2015 TD144 and 2015 KJ57 are in the size range where objects can begin to exceed the rubble pile spin limit. For all three objects, we will collect astrometry to improve their orbits as well as estimate their sizes and rotation periods.

Name	Institution	E-mail	Phone	Student
Edgard G Rivera-Valentin	Arecibo Observatory	ed@naic.edu	x337	no

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