

## Technical Page

This proposal has not been submitted before.

Proposal Type:           Urgent  
 General Category:       Planetary Radar  
 Sub-Category:           Radar  
 Observation Category:   Solar System  
 Total Time Requested:   3 Hours  
 Minimum Useful Time:   1

**Proposal Title:** Radar Observations of Newly Discovered Near-Earth Objects

*ABSTRACT:*

We request one 3-hour observing track per target (including transmitter warm-up time) to observe recently discovered Near-Earth objects (NEO), out of which many are classified as potentially hazardous objects, which are high priorities of the NASA funded Planetary Radar Science group at the Arecibo Observatory (AO). Each year about 40 to 60 newly discovered NEOs are observed using the planetary radar system at AO. Usually not much is known about recently discovered NEOs, except for their orbital parameters. Radar observations allow to refine its orbit, helping us not to lose the object. In addition, radar also allows us to estimate its size, rotation state, and surface properties.

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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