

Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 1.0 Hours
 Minimum Useful Time: 0.5

Proposal Title: Bistatic Radar Observations of Near-Earth Asteroid 2018 CB

ABSTRACT:

We request 1 hour of telescope time to observe newly discovered near-Earth asteroid 2018 CB on February 9. This is the only day when 2018 CB will be visible from Arecibo and occurs when this 20-meter asteroid passes roughly 0.2 lunar distances from Earth. Because of its proximity, Arecibo will be used only as a receiver. The transmitted signal will be provided by DSS-13 at Goldstone. Receiving at Arecibo will allow for testing of the data-taking and data-analysis pipelines at C band with the goal of imaging at 2-meter resolution. The requested time of 16:45 to 17:45 AST on February 9 follows P2945 and overlaps a system check and part of X111 and thus should not interfere with other observations. It would be beneficial to have test time prior to the observations coordinated with Phil Perrilat.

Name	Institution	E-mail	Phone	Student
Patrick A Taylor	Arecibo Observatory	ptaylor@naic.edu	787-878-2612 x358	no

Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

C-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned