
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.

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Remote Observing Request

- [X] 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