

## Technical Page

Proposal Type: Regular  
 General Category: Planetary Radar  
 Observation Category: Solar System  
 Total Time Requested: 34 Hours

**Proposal Title:** Rotationally resolved Radar Observations of 554 Peraga: Correlation with 3-micron Spectroscopy

*ABSTRACT:*

As a follow-up to our ongoing main-belt asteroid observations to correlate the hydration state of low-albedo main-belt asteroids with their radar properties, We propose to make rotationally resolved observations of asteroid 554Peraga. Our previous work has shown a consistent relationship between higher radar albedo and hydrated surface minerals. Asteroid 554Peraga is the only remaining asteroid whose spectra at different rotation phases shows inconsistent hydration states. The radar observations will help determine the asteroid shape, observing geometry, and any inhomogeneities with rotation.

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**Service Observing Request**

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

**Remote Observing Request**

- No
- Maybe
- Yes

**Instrument Setup**

S-Band radar                                  S-band receiver

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**