

### Technical Page

Proposal Type: Regular  
 General Category: Planetary Radar  
 Sub-Category: Radar  
 Observation Category: Solar System  
 Total Time Requested: 12 Hours

**Proposal Title:** High-Resolution 70-cm Radar Imaging of the Lunar South Pole: Searching for Evidence of Ice

*ABSTRACT:*

In recent years, a major question for radar investigation has been the possibility of ice at the lunar poles. We propose to carry out 70-cm wavelength, dual-polarization radar mapping of the lunar south pole. These data will permit deeper probing of portions of the permanently-shadowed crater floors than was possible with either the Clementine 13.2-cm or Arecibo 12.6-cm observations.

Name	Institution	E-mail	Phone	Student
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**Service Observing Request**

**Remote Observing Request**

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

- No
- Maybe
- Yes

**Instrument Setup**

430 CH receiver 430 CH radar

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**

This proposal requires coordination with AFTWF within the band 425-435 MHz.