

## Technical Page

Proposal Type: Long Term  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Stellar  
 Total Time Requested: 2400 (over 5 years) Hours

**Proposal Title:** Project Phoenix: SETI Targeted Search Observations

*ABSTRACT:*

This is a search for radio signals transmitted by another technology from the vicinity of nearby solar-type stars. The dual polarization search detects narrowband CW and pulsed signals, that may be drifting slowly, over 1.3 to 3.0 GHz. 300 second observations can detect  $1 \times 10^{11}$  W EIRP transmitters at 100 ly. Candidates are immediately followed up by a pseudo-interferometer formed by Arecibo and the Lovell Telescope to discriminate against RFI.

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**Service Observing Request**

**Remote Observing Request**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> None<br><input type="checkbox"/> All of the observing run.<br><input type="checkbox"/> Part of the observing run.<br><input type="checkbox"/> Queue Observing | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> Maybe<br><input type="checkbox"/> Yes |
|---|--|

**Instrument Setup**

L-band

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:** 15 ton backend equipment van (MRF), 45 KVA transformer, 2

**Special Equipment or setup:** Special setup: various co-ax switches and amplifiers/filters for quick  
 Software needs: Ethernet connection to telescope and receiver control Media needs: all recording done on user supplied DAT drives.

**RFI Considerations**

## Frequency Ranges Planned

see proposal