Technical Page

This proposal has not been submitted before.

Proposal Type:	Urgent
General Category:	Planetary Radar
Observation Category:	Solar System
Total Time Requested:	3.0 Hours
Minimum Useful Time:	1.0

Proposal Title: Radar Observations of a Temporary Satellite of Earth

ABSTRACT:

We request one 3-hour observing track, October 23 from 03:30 to 06:30 AST, to detect a (presumably artificial) temporary satellite of Earth designated WT1190F by the Minor Planet Center. Because the object is closer to Earth than the Moon, we require a bistatic experiment where Arecibo transmits at S-band and the Green Bank Telescope receives the echoes. These observations will help confirm if the object is artificial and improve prediction of its future trajectory, which currently suggests an eventual impact into Earth's atmosphere in mid-November.

Name	Institution	E-mail	Phone	Student
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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 S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned