Proposal Identification No.: R2219 Date Received: 2006-Feb-09_14:47:13

Technical Page

Proposal Type:	Urgent
General Category:	Planetary Radar
Observation Category:	Solar System
Total Time Requested:	6 Hours

Proposal Title: Radar observations of asteroid 2005 TF49

ABSTRACT:

Near-Earth asteroid 2005 TF49 will be observable at Arecibo on 13-15 April 2006, just before the tentatively scheduled observations for R2184. We request that on those dates, if the R2184 time from 1-4 AM AST is scheduled, that we also observe this target, with warmup time beginning at 11 PM AST. Nothing is known about this object except its absolute magnitude, which predicts a diameter of about 600m. With the predicted SNR of 190 per run, we should be able to obtain 7.5-m resolution imaging of this target. We further request that some of the R2184 observations be moved one day earlier to allow three days of observation of this object in conjunction with R2184.

Name	Institution	E-mail	Phone	Student
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Service Observing Request

- [X] None
- [ ] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

Remot e Observing Request

- [X] No
- [ ] Maybe
- [ ] Yes

Instrument Setup

S-Band radar S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned