

Technical Page

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

Proposal Title: Radar Imaging of Near-Earth Asteroid 5381 Sekhmet

ABSTRACT:

We propose to obtain moderate-resolution (75 m) imaging of near-Earth asteroid 5381 Sekhmet in May, 2003. Recent experience (Nolan et al., 2002, Margot et al., 2002, Giorgini et al., 2002) has shown that there is an enormous variety in the shapes, radar reflectivities, and rotation states of near-Earth asteroids. Relatively large objects such as (5381) Sekhmet (about 1.7 km diameter) are available for imaging only a few times per year, and we need to use every opportunity to image these targets, particularly as this size range is of most concern for impact hazard mitigation, and has included most of the near-Earth binary systems discovered to date.

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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