

## Technical Page

Proposal Type: Regular  
 General Category: Planetary Radar  
 Observation Category: Solar System  
 Total Time Requested: 87.5 Hours

**Proposal Title:** Radar imaging of seven near-Earth asteroids in June-September 2005

*ABSTRACT:*

We propose delay-Doppler radar imaging, physical modeling, satellite searches, and orbit refinement of near-Earth asteroids (NEAs) 5660 (1974 MA), 22771 (1999 CU3), 1992 UY4, 2002 EX12, 2002 SR41, 2003 CY18, and 2003 YN107 during June-September 2005. Highlights include the first known Earth quasi-satellite, which is also a Yarkovsky effect candidate; two objects that could be close to 2 km in diameter; and one kilometer-sized NEA that is the strongest known target this year. Six objects will be detected by radar for the first time and two are classified as "Potentially Hazardous" by the Minor Planet Center.

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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

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**