Proposal Identification No.: R2093 Date Received: 2005-Mar-09_16:49:46

Technical Page

Proposal Type:	Urgent
General Category:	Planetary Radar
Observation Category:	Solar System
Total Time Requested:	18 Hours

Proposal Title: Urgent Proposal for Radar Imaging of Near-Earth Asteroid 2005 EU2

ABSTRACT:

We propose to obtain high-resolution (15m) imaging of near-Earth asteroid 2005 EU2 in March and April of 2005. Recent experience has shown that there is an enormous variety in the shapes, radar reflectivities, and rotation states of near-Earth asteroids. Good imaging opportunities for relatively small objects such as 2005 EU2 (100m diameter) occur only a few times per year. Radar imaging can help determine the internal structure by giving us information about the size, spin rate and even density in the case of binary systems.

Name	Institution	E-mail	Phone	Student
Ellen Howell	Arecibo Observatory	ehowell@naic.edu		no

Service Observing Request		Remot e Observing Request	
[X]	None	[X]	No
[ ]	All of the observing run.	[ ]	Maybe
[ ]	Part of the observing run.	[ ]	Yes
[ ]	Queue Observing		

Instrument Setup

S-Band radar S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

2380