

NOAO > Observing Info > Approved Programs > 2014A-0085

Proposal Information for 2014A-0085

PI: Mark Trueblood, Winer Observatory, winer.obs@gmail.com

Address: Director, PO Box 797, Sonoita, AZ 85637-0797, United States

CoI: Robert Crawford, Rincon Ranch Observatory

CoI: David Bell, NOAO

CoI: Larry Lebofsky, Planetary Science Institute

Title: Long Term Follow-up of Near Earth Objects

Abstract: Recently-discovered Virtual Impactors (VIs) and Potentially Hazardous Asteroids (PHAs) will be observed using the KPNO 2.1-m telescope to add astrometric observations at arcs up to 90 days from discovery. These extended arcs place strong constraints on the orbital solution and can greatly reduce the ephemeris uncertainty at the next recovery opportunity. Many recently-discovered Near Earth Objects (NEOs) will be observable in the range $21 < V < 23$ on any night during 2014A. We will concentrate on objects where the longest arcs can be created, but we will observe other, more recently discovered NEOs as well. By creating extended arcs, we will reduce the number of the most dangerous NEOs that accumulate large errors, enabling future recovery efforts and advancing the assessment of impact risk.

National Optical Astronomy Observatory, 950 North Cherry Avenue, P.O. Box 26732, Tucson, Arizona 85726, Phone: (520) 318-8000, Fax: (520) 318-8360

NOAO > Observing Info > Approved Programs > 2014A-0085

noaoprop-help@noao.edu