

*Appendix - List of elements and capabilities that contribute to IAWN efforts****United States Capabilities***

<b>Facility</b>	<b>Location</b>	<b>Observation</b>	<b>Contributions</b>
Minor Planet Center (MPC)	Cambridge, Massachusetts	Observation correlation and orbit determination	Database of observations and orbits of asteroids and comets
NEO Coordination Office	Jet Propulsion Laboratory (JPL), Pasadena, California	Precision computation of orbits of asteroids and comets	Precision close approach prediction, impact probability and risk assessment
Catalina Sky Survey	Tucson, Arizona	Detection; astrometric follow-up	NEO discovery
Pan-STARRS	Haleakalā (Maui), Hawaii	Detection; astrometric follow-up	NEO discovery
LINEAR	White Sands, New Mexico	Detection, astrometric follow-up	NEO discovery
NEOWISE	Sun-synchronous, low-Earth orbit	Detection; IR characterization	Discovery, Size, albedo, thermal inertia, rough composition
NASA IRTF	Mauna Kea, Hawaii	IR characterization, rapid response	IR spectroscopy, composition
Magdalena Ridge Observatory	Socorro, New Mexico	Follow-up characterization	Astrometry, Photometric lightcurves, spectroscopy
Univ of Hawaii, 2.2-meter	Mauna Kea, Hawaii	Astrometric follow-up	Visible albedo, precision astrometry
Mission Accessible Near-Earth Object Survey (MANOS)	Lowell Observatory, Flagstaff, Arizona	astrometry, photometry, spectroscopy	Catalog physical properties of several 100s sub-km NEOs)
Spacewatch (KPNO)	Tucson, Arizona	Detection, astrometric follow-up	Discovery, photometry, astrometry
Goldstone Solar System Radar	Deep Space Network DSS-14 Barstow, California	Precision vector and radar imaging	Precision orbit determination; shape models
Arecibo Planetary Radar	Arecibo Observatory, Puerto Rico	Precision vector and radar imaging	Precision orbit determination; shape models

NASA accepts to the terms as laid out in the IAWN Statement of Intent dated 9 March 2015.

NASA offers NEO observation efforts by the elements and capabilities from the United States as detailed in this appendix.

---

John M. Grunsfeld

Associate Administrator, Science Mission Directorate  
NASA Headquarters, Washington, DC USA