



**From the IAWN Statement of Intent:**

“The intent of the International Asteroid Warning Network (IAWN) is to establish a worldwide effort to detect, track, and physically characterize near-Earth objects (NEOs) to determine those that are potential impact threats to Earth. This network is comprised of a partnership of scientific institutions, observatories, and other interested parties performing observations, orbit computation, modeling, and other scientific research related to the impact potential and effects of asteroids.”



International  
Asteroid  
Warning  
Network

## Currently 38 signatories

<https://iawn.net/about/members.shtml>

### Newest Signatories to IAWN:

MAP, San Pedro De Atacama, Chile

Hampshire Astronomical Group, United Kingdom

NOAK Observatory, Ionia, Greece

For more on IAWN, see IAWN.net

Brazil	Southern Observatory for Near Earth Asteroids Research, Brazil
Canada	Golden Ears Observatory U55
Canada	Spaceguard Consulting, Canada
Chile	San Pedro de Atacama Celestial Explorations W94 W95
China	Chinese National Space Administration, China
China	Xingming Observatory (IAU Code C42/N88/N89)
Colombia	Unversity of Narino, Colombia
Crimea	Mobil Astronomical Robotics Genon Observatory
Croatia	Visnjan Observatory, Croatia
Europe	European Space Agency, Head NEO Segment, SSA Programme Office
Europe	European Southern Observatory
France	Observatoire de la Côte d'Azur, Nice, France
Greece	NOAK Observatory, Ionia, Greece L02
Israel	Israel Space Agency
Italy	Agenzia Spaziale Italiana
Italy	Fondazione GAL Hassin
Italy	G.V. Schiaparelli 204, Italy
Italy	Sormano Observatory, Italy
Korea, Republic of	Korean Astronomy and Space Sciences Institutde, Republic of Korea
Latvia	Baldone Observatory 069, Latvia
Mexico	National Institute of Astrophysics, Optics, and Electronics, Mexico
Poland	6ROADS Company
Romania	Astronomical Institute of the Romanian Academy
Russia	Crimean Astrophysical Observatory, Russia
Russia	Russian Academy of Sciences, Institute of Astronomy, Russia
Russia	Institute of Solar-Terrestrial Physics, Russian Academy of Sciences, Russia
Russia	Kourovka Astronomical Observatory, Ural Federal University, Russia
Russia	Keldysh Institute of Applied Mathematics, Russian Academy of Sciences, Russia
Russia	Special Astrophysical Observatory, Russian Academy of Sciences, Russia
Spain	The Paus B49 Observatory
Spain	Insituto de Astrofisica de Canarias
United Kingdom	Peter Birtwhistle, Great Shefford Observatory, England
United Kingdom	David Briggs, Hampshire Astronomical Group, England
United Kingdom	Northolt Branch Observatories, England
United States	National Aeronautics and Space Administration
United States	Squrrel Valley Observatory W34
United States	Patrick Wiggins, Tooele Observatory, Utah, United States
United States	Zwicky Transient Facility, Caltech, United States



## Highlights from the 14<sup>th</sup> IAWN Steering Committee Meeting

- Updates from IAWN Signatories NASA, ESA, KASI, IAC, ISA, and Buzzi/204
- Two new ATLAS NEO survey telescopes in Chile and South Africa are now in operation and continue commissioning activities
- Minor Planet Center report - ongoing activities including development and automation, community interaction and data quality
- Analysis of NEO discoveries in 2021, with discussion of the use of synthetic tracking by some observatories and the prospects for current searches and for future follow-up for the next generation of NEO surveys

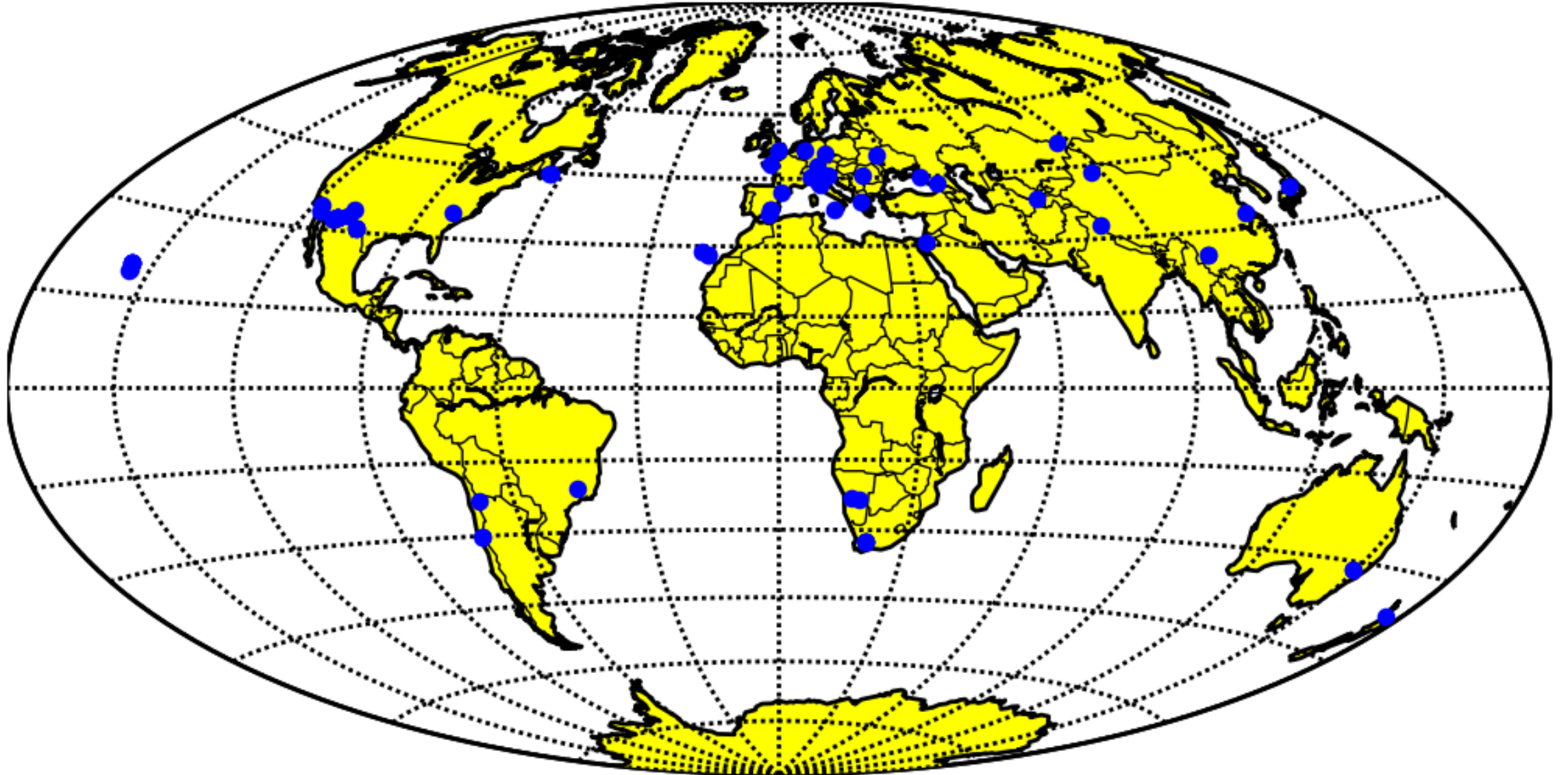


## Highlights from the 14<sup>th</sup> IAWN Steering Committee Meeting

### Latest IAWN Observing Campaign - 2019 XS Timing Campaign

- Goals
  - To assess data quality which can inform data treatment in orbit determination
  - To help observers identify potential issues with timing and with reported uncertainties
- Overall results are very good, with areas for improvement identified
- Individual reports will be sent to observers
- The overall results will be published, with participants as coauthors
- A future campaign may involve timing in order to assess improvement

**2019 XS Timing Campaign**  
**Broad participation with good longitudinal coverage**



69 stations, 831 observations



## Highlights from the 14<sup>th</sup> IAWN Steering Committee Meeting

- Report on the current preliminary status for proposing an International Year focusing on near-Earth asteroids and planetary defense activities
- Dark & Quiet Skies – mitigating artificial satellite effects on optical and radio astronomy
  - Working paper submitted to the UNCOPUOS S&TSC summarizing results
  - IAU announced new center for protection of dark and quiet skies (hosted by NOIRLab and SKAO)
- Draft Terms of Reference for IAWN Steering Committee membership guided by the IAWN Statement of Intent