Application for Signatory Status in the International Asteroid Warning Network (IAWN)

Applicant Organization: Japan Spaceguard Association (JSGA)

The Japan Spaceguard Association (JSGA), a non-profit organization established in 1996, has been engaged in the observation and study of Near-Earth Objects (NEOs) with the aim of reducing the risk posed by potential asteroid impacts. JSGA supports the objectives of the International Asteroid Warning Network (IAWN) and hereby applies to become an IAWN Signatory.

Observational Activities and Capabilities

JSGA has worked with observers and researchers in Japan to conduct observations of asteroids, including NEOs. Its past activities include asteroid observations at the Bisei Spaceguard Center under MPC Observatory Code 300 (Bisei Spaceguard Center-BATTeRS). JSGA currently works with experienced observers at the following MPC observatories to conduct NEO follow-up astrometry and photometric observations, including lightcurve observations.

MPC Observatory	Location	Telescope	Field of view	Detector	Contribution
MPC 900 - Moriyama	Moriyama, Shiga, Japan	0.40 m F/4.5 reflector	0.75 × 0.75 deg	1.6K × 1.6K CMOS	NEO follow-up observation
MPC Q06 - Tarui Observatory	Tarui, Gifu, Japan	0.35 m F/1.9 Schmidt-Cassegrain	1.6 × 1.1 deg	2K × 1.4K CMOS	NEO follow-up observation
MPC Q10 - Toyokawa Observatory	Toyokawa, Aichi, Japan	0.25 m F/2.8 reflector	1.1 × 0.8 deg	Sony IMX432 1.6K × 1.1K CMOS	NEO follow-up observation

These observatories regularly conduct NEO follow-up observations, and astrometric observations are reported to the Minor Planet Center (MPC).

Contributions to IAWN

Using these observational capabilities and its network of observers in Japan, JSGA will contribute to IAWN through NEO follow-up astrometry and submission of observational data to the MPC; photometric observations contributing to the physical characterization of NEOs; participation in international observing campaigns coordinated by IAWN; additional observations through its network of observers in Japan; and sharing of technical knowledge and information related to NEO observation and data analysis.

JSGA has established an IAWN Support and Cooperation Committee to coordinate communication with IAWN, participation in international observing campaigns, coordination among observers in Japan, and technical support related to NEO observations and data analysis. JSGA also conducts education and public outreach activities related to NEOs and planetary defense.

Statement of Intent

JSGA has reviewed the IAWN Statement of Intent and understands its objectives and the roles and responsibilities expected of participating organizations. JSGA supports the objectives and principles set forth in the Statement of Intent and will contribute, within its capabilities, observational data, observing resources, and relevant expertise to international NEO monitoring activities.

Japan Spaceguard Association (JSGA)

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