

## Station Application for Joining the ILRS Network (March 12, 2024)

A new laser ranging station may apply for membership in the ILRS network by submitting the following to Secretary of the ILRS, Claudia Carabajal ([Claudia.C.Carabajal@nasa.gov](mailto:Claudia.C.Carabajal@nasa.gov), on behalf of the ILRS Central Bureau):

- The completed ILRS Network Application Form (see below), which includes a commitment to adhere to the ILRS rules, and
- A completed ILRS site log  
[https://ilrs.cddis.eosdis.nasa.gov/network/site\\_procedures/site\\_logs.html](https://ilrs.cddis.eosdis.nasa.gov/network/site_procedures/site_logs.html)

The application and log will be assessed for compliance and safety by the ILRS Networks and Engineering Standing Committee (NESC) and the ILRS Central Bureau (CB).

At the discretion of the ILRS CB, a station may be designated as an:

- *Operational Station* if it is participating or planning to participate in IAG activities at least half of its operating time
- *Engineering Station* if it is doing engineering and development work that is considered relevant to the IAG activities of the ILRS

This form helps to clarify ILRS expectations for the station's contribution to service applications.

## ILRS Network Application Form

This form should be completed by SLR station contacts who would like to join the ILRS network. In addition, a draft ILRS Site Log **must** be included with the application:

[https://cddis.nasa.gov/archive/reports/slrlog/slr\\_blank.txt](https://cddis.nasa.gov/archive/reports/slrlog/slr_blank.txt)

### GENERAL INFORMATION:

Station name: \_\_\_\_\_

Station location: \_\_\_\_\_

Station website: \_\_\_\_\_

On-site technical contact: \_\_\_\_\_

Alternate on-site technical contact: \_\_\_\_\_

Parent/funding organization: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Phone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

Is the laser ranging system at this site co-located with any of the following space geodetic techniques (Y/N)?

GNSS: \_\_\_\_\_ Four-character name: \_\_\_\_\_

GNSS constellations tracked: \_\_\_\_\_

Other SLR: \_\_\_\_\_ SOD/DOMES numbers: \_\_\_\_\_/\_\_\_\_\_

VLBI: \_\_\_\_\_

DORIS: \_\_\_\_\_

Tide gauge: \_\_\_\_\_

Gravimeter: \_\_\_\_\_

Other: \_\_\_\_\_

Subnetwork affiliation (if any): \_\_\_\_\_

## ILRS Network Application Form (continued)

### TRACKING PARTICIPATION

**All stations in the ILRS network must routinely track LAGEOS-1, LAGEOS-2, LARES-1 and LARES-2.** Please indicate below the category of satellites the station is able/willing to track.

LAGEOS-1, LAGEOS-2, LARES-1, LARES-2	Night: ____	Daylight: ____	Both: ____
Low satellites (e.g., GRACE, altimetry, etc.):	Night: ____	Daylight: ____	Both: ____
High satellites (e.g., GNSS, etc.):	Night: ____	Daylight: ____	Both: ____
GEO satellites:	Night: ____	Daylight: ____	Both: ____
Lunar:	Night: ____	Daylight: ____	Both: ____

Will this station be totally dedicated to SLR? (Y/N): \_\_\_\_

If not, what other applications are intended?: \_\_\_\_\_  
\_\_\_\_\_

Expected SLR tracking coverage from this site, please indicated hours per day (0-24):

Sunday: \_\_\_\_ Monday: \_\_\_\_ Tuesday: \_\_\_\_  
Wednesday: \_\_\_\_ Thursday: \_\_\_\_ Friday: \_\_\_\_ Saturday: \_\_\_\_

Include any near-term upgrade plans? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Include any relevant additional information on your capabilities or past experience:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Include a list of associates and their email addresses:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## ILRS Network Application Form (continued)

### SYSTEM AGREEMENT

As part of the ILRS network, this station agrees to follow ILRS guidelines as specified on the ILRS website: [https://ilrs.cddis.eosdis.nasa.gov/network/site\\_procedures/index.html](https://ilrs.cddis.eosdis.nasa.gov/network/site_procedures/index.html), in particular, approved stations will:

- Range to satellites that have been authorized by the ILRS
- Adhere to the ILRS restricted tracking procedures
- Keep their site logs and configuration files current
- Maintain aircraft avoidance and other safety procedures
- Adhere to the ILRS data product delivery requirements
- Strive to produce the highest quality SLR measurement by:
  - Eliminating systematic errors
  - Carrying out regular system delay calibrations
  - Regularly surveying the site reference markers and inter-technique site ties

Approved stations may support other science and engineering activities, but must adhere to the ILRS safety requirements above.

Signed: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Position: \_\_\_\_\_

Organization: \_\_\_\_\_

Send completed form to:

ILRS Central Bureau  
c/o Claudia Carabajal  
NASA GSFC, Code 61A  
Greenbelt, MD 20771 USA

Claudia.C.Carabajal@nasa.gov  
001-301-614-6111 (Voice, GSFC office)  
001-301-602-7787 (Cell)