

The New ILRS Website

ilrs.gsfc.nasa.gov

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International Laser Ranging Service

A service of the International Association of Geodesy

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Welcome to ILRS

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Overview

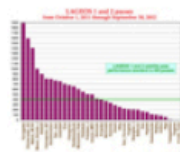
Satellite Laser Ranging (SLR) and Lunar Laser Ranging (LLR) use short-pulse lasers and state-of-the-art optical receivers and timing electronics to measure the two-way time of flight (and hence distance) from ground stations to retroreflector arrays on Earth orbiting satellites and the moon. The laser stations are also used to measure one-way distance from the ground stations to remote optical receivers in space and for very accurate time transfer. Laser ranging activities are organized under the International Laser Ranging Service (ILRS) which provides global satellite and lunar laser ranging data and their derived products to support geodetic, geophysical, and fundamental research activities as well as IERS products important to the maintenance of an accurate International Terrestrial Reference Frame (ITRF). The service develops the necessary global standards/specifications and encourages international adherence to its conventions. The ILRS is one of the space geodetic services of the International Association of Geodesy (IAG) and an entity within its Global Geodetic Observing System (GGOS).

Welcome



Matera, Italy Station

Highlights



Release Date: 10/23/2012

The [2012 3rd quarter report card](#) has been published.



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Recent News

- The [2012 3rd quarter report card](#) has been published.
- On October 23, 2012 [GLONASS-129](#) replaced [GLONASS-127](#) in the ILRS priority list.
- The Soyuz ST-B launcher carrying the next two Galileo In-Orbit Validation satellites took off as scheduled on 18:15:00 GMT (20:15:00 CEST). Deployment of its twin satellites into orbit is scheduled for three hours 44 minutes after take-off. [Read more](#)
- The ILRS Central Bureau is pleased to announce the implementation of a new design for the ILRS website, <http://ilrs.gsfc.nasa.gov>. The redesign process has allowed for a review of the organization of the site and its contents, ensuring information is current and useful. Comments and suggestions are welcome and should be directed to the ILRS web team at ilrs-web@lists.nasa.gov.
- [More news](#)

Meetings



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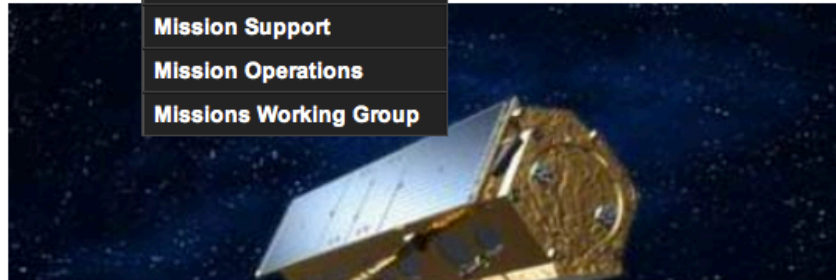
List of Missions

Spacecraft Parameters

Mission Support

Mission Operations

Missions Working Group



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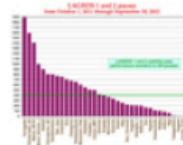
- To contact the ILRS Web team, send an email to [ilrs-web @ lists.nasa.gov](mailto:ilrs-web@lists.nasa.gov)

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TerraSar-X Satellite

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