

Abstract The ILRS Web site, http://ilrs.gsfc.nasa.gov, is the central source of information for all aspects of the service. The Web site provides information on the organization and operation of ILRS and descriptions of ILRS components, data, and products. Furthermore, the Web site and provides an entry point to the archive of these data and products available through the data centers. Links are provided to extensive information on the ILRS network stations including performance assessments and data quality evaluations. Descriptions of supported satellite missions (current, future, and past) are provided to aid in station acquisition and data analysis. This poster will detail recent improvements made in several areas of the ILRS Web site including specific examples of key sections and webpages.

The ILRS Central Bureau staff has developed various reports and data plots to monitor network performance. The CB would like to encourage station operators, analysts, and other ILRS groups to peruse these reports and plots on a regular basis to monitor station performance as well as how the overall network is supporting our mission customers. All plots and reports can be accessed through the station pages on the ILRS Web site at URL http://ilrs.gsfc.nasa.gov/stations.

Station Performance Report Cards

The ILRS performance "report cards" are issued quarterly by the ILRS Central Bureau (CB). These reports tabulate the previous 12 months of data quality, quantity, and operational compliance by station. The CB uses these report cards to maintain lists of the operational and associate stations. The statistics are presented in two tables (one for artificial satellites and a second for lunar reflectors) by station and sorted by total passes in descending order. Plots of data volume (passes, normal points, minutes of data) and RMS (LAGEOS, Starlette, calibration) are created from this information and available on the report card Web site. A third table summarizes the orbital analysis of the data performed by five AC/AACs (DGFI, Hitotsubashi University, Jcet, MCC, and the Shanghai Astronomical Observatory).

Real-Time and Daily Station Status Reports

Station status information is available on a daily and near-real time basis through the EUROSTAT utility. These reports allow the ILRS community to quickly view the status of the tracking network. ILRS stations can automatically upload status information to EUROSTAT that is then used to generate an overview of the current activities of the tracking stations. The real-time report shows actual station operations at that point in time. The daily report provides a one-line entry per day showing if stations are currently staffed, operational, off-shift, off-line because of system problems, etc. We encourage all stations in the network to participate in the daily and, if possible, real-time exchange of status information.

A recent version of the report card (2nd quarter 2008, 01-Jul-2007 through 30-Jun-2008) is shown in the web page figure below.

SLR Global Performance Report Card July 1, 2007 through June 30, 2008. Includes performance parameters based on data volume, on-site processing statistics, and operational compliance issues. Table 1 contains information about Lunar Laser Ranging during the past year. Table 2 contains performance parameters based on various Analysis Center's orbital analysis results.

Real-time and daily station status reports. Includes screenshots of the EUROSTAT utility showing station status information and a table of station status data.

Table 1: Performance parameters based on data volume, on-site processing statistics, and operational compliance issues. Columns include Station, LEO passes, LAGEOS passes, Starlette passes, and RMS values.

Station-Specific Performance Charts. Includes screenshots of the ILRS website showing performance charts for various stations like Hermonstovex, United Kingdom 7840, and Grace-A.

Table 2: Performance parameters based on various Analysis Center's orbital analysis results. Columns include Station, DGFI, Hitotsubashi, Jcet, MCC, and SHAO orbital analysis results.

Station-Specific Performance Charts (continued). Includes screenshots of performance charts for stations like Hermonstovex, United Kingdom 7840, and Grace-A, showing RMS and station performance over time.

Table 2 (continued): Performance parameters based on various Analysis Center's orbital analysis results. Includes detailed orbital analysis data for multiple stations.

Station-Specific Performance Charts (continued). Includes screenshots of performance charts for stations like Hermonstovex, United Kingdom 7840, and Grace-A, showing meteorological data and station performance.

Table 2 (continued): Performance parameters based on various Analysis Center's orbital analysis results. Includes detailed orbital analysis data for multiple stations.

Station-Specific Performance Charts (continued). Includes screenshots of performance charts for stations like Hermonstovex, United Kingdom 7840, and Grace-A, showing meteorological data and station performance.

Station-Specific Performance Charts (continued). Includes screenshots of performance charts for stations like Hermonstovex, United Kingdom 7840, and Grace-A, showing meteorological data and station performance.

Station-Specific Performance Charts (continued). Includes screenshots of performance charts for stations like Hermonstovex, United Kingdom 7840, and Grace-A, showing meteorological data and station performance.

Station-Specific Performance Charts (continued). Includes screenshots of performance charts for stations like Hermonstovex, United Kingdom 7840, and Grace-A, showing meteorological data and station performance.

Station-Specific Performance Charts (continued). Includes screenshots of performance charts for stations like Hermonstovex, United Kingdom 7840, and Grace-A, showing meteorological data and station performance.