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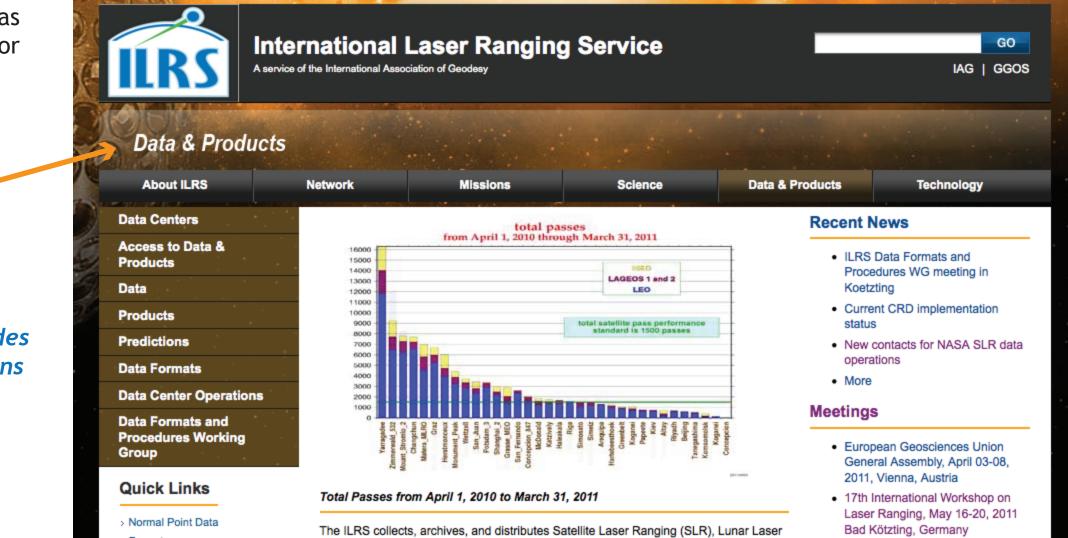
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### ABSTRACT

The ILRS website, http://ilrs.gsfc.nasa.gov, is the central source of information for all aspects of the service. The website provides information on the organization and operation of ILRS and descriptions of ILRS components, data, and products. Furthermore, the website 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. The current format for the ILRS website has been in use since the early years of the service. Starting in 2010, the ILRS Central Bureau began efforts to redesign the look and feel for the website. The update will allow for a review of the contents, ensuring information is current and useful. This poster will detail the proposed design including specific examples of key sections and webpages.

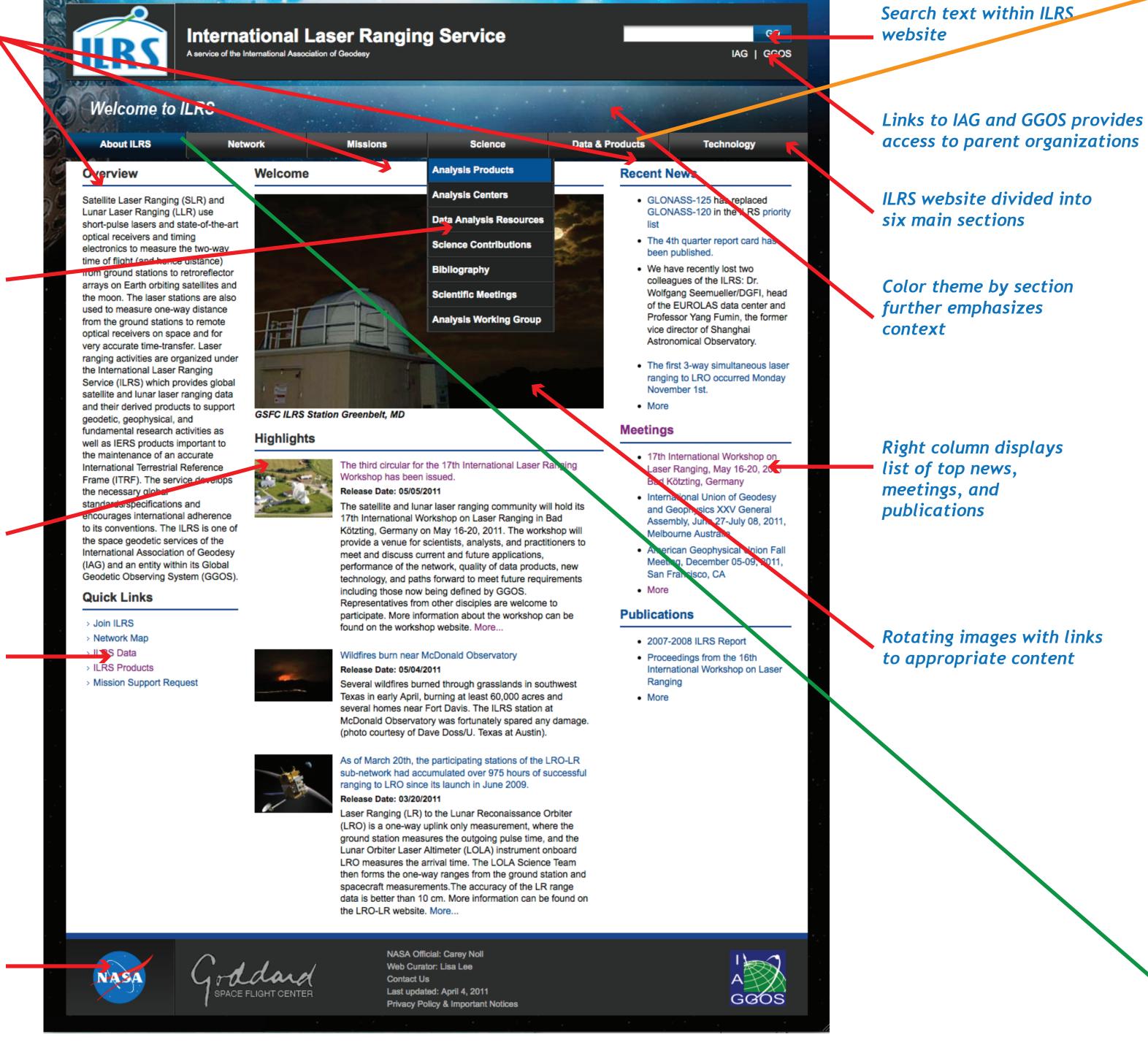
ILRS WEBSITE REDESIGN

### DATA AND PRODUCTS EXAMPLE MAIN SECTION PAGE (LEVEL 1 PAGE)



Level 0 page (ILRS Homepage) divided into 3 logical areas: ILRS Overview (left), Highlights (center), list of News/Meetings/ **Publications (right)** Organization allows for quick access to prime content

## NEW ILRS HOMEPAGE (LEVEL O PAGE)



### Drop down menu for main sections allows 🕳 for quick navigation

Top news stories and highlights

Quick links to popular pages provides ease of navigation

Appropriate (and minimal) links to NASA sponsors; includes required NASA content

ILRS MEMBERSHIP

Color theme by section further emphasizes Right column displays list of top news, meetings, and publications

> Rotating images with links to appropriate content

Formats

The ILRS collects, archives, and distributes Satellite Laser Ranging (SLR), Lunar Laser Ranging (LLR), and transponder observation datasets of sufficient accuracy to satisfy the objectives of a wide range of scientific, engineering, and operational applications and experimentation. These data sets are used by the ILRS to generate a number of scientific and operational data products.

ILRS Data: Laser ranging normal points (NPTs) constitute the primary ILRS data product; they are generated following the conclusion of the laser pass and typically transmitted to data centers within hours. Laser ranging normal points are compressed data using all identified signals within a specified time interval. The length of this normal point interval is primarily dependent upon the satellite altitude; lower orbiting satellites have a shorter normal point interval than high-orbit satellites. Full-rate data include all valid satellite returns and are thus larger in volume; these data are routinely provided by most stations in the ILRS network. Full-rate data are useful for both engineering evaluation and scientific applications.

ILRS Products: Products derived from these SLR observations include precise satellite ephemerides, station positions and velocities of sites in the ILRS network, and Earth Orientation Parameters (EOPs, i.e., polar motion and rates, length-of-day).

ILRS Predictions: The laser ranging stations require satellite orbit information in order to point their instrument to the correct location and acquire returns from the retroreflectors. Mission operations centers generate these predicted future orbits from calculated ranging data and radiometric orbits; the files are transmitted to the stations through email or by storing them within data center archives. The Consolidated Prediction Format (CPF) is now used operationally for satellite predictions within the ILRS; CPF provides orbit data that accurately predict positions and ranges for a large variety of targets in tables of X, Y, and Z positions, which can be interpolated for accurate predictions.

ILRS data, products, and predictions are available through two data centers:

- · Crustal Dynamics Data Information System (CDDIS) at NASA GSFC, Greenbelt, MD USA
- EUROLAS Data Center (CDDIS) at DGFI, Munich Germany



NASA Official: Carey Noll Web Curator: Lisa Lee Contact Us Last updated: April 4, 2011 Privacy Policy & Important Notices



International Union of Geodesy

Melbourne Australia

2007-2008 ILRS Report

Proceedings from the 16th

International Workshop on Laser

More

Publications

Ranging

More

and Geophysics XXV General

Assembly, June 27-July 08, 2011,

Level 1 pages (main pages within each of the 6 subsections) have 3 column layout: left nav (left), main content text (center), recent news (specific to subsection)/Meetings/Publications (right)

# **ABOUT ILRS** EXAMPLE MAIN SECTION PAGE (LEVEL 1 PAGE)

