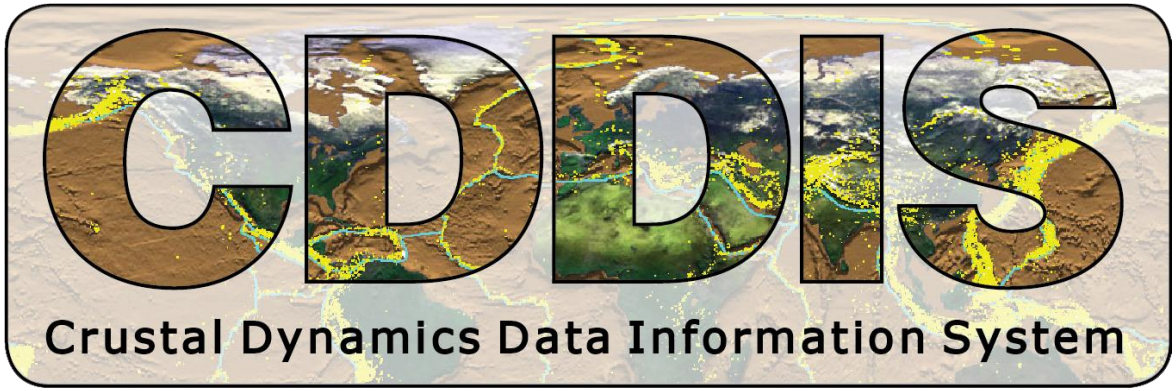

CDDIS Update
Web Applications

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IDS Analysis Working Group Meeting
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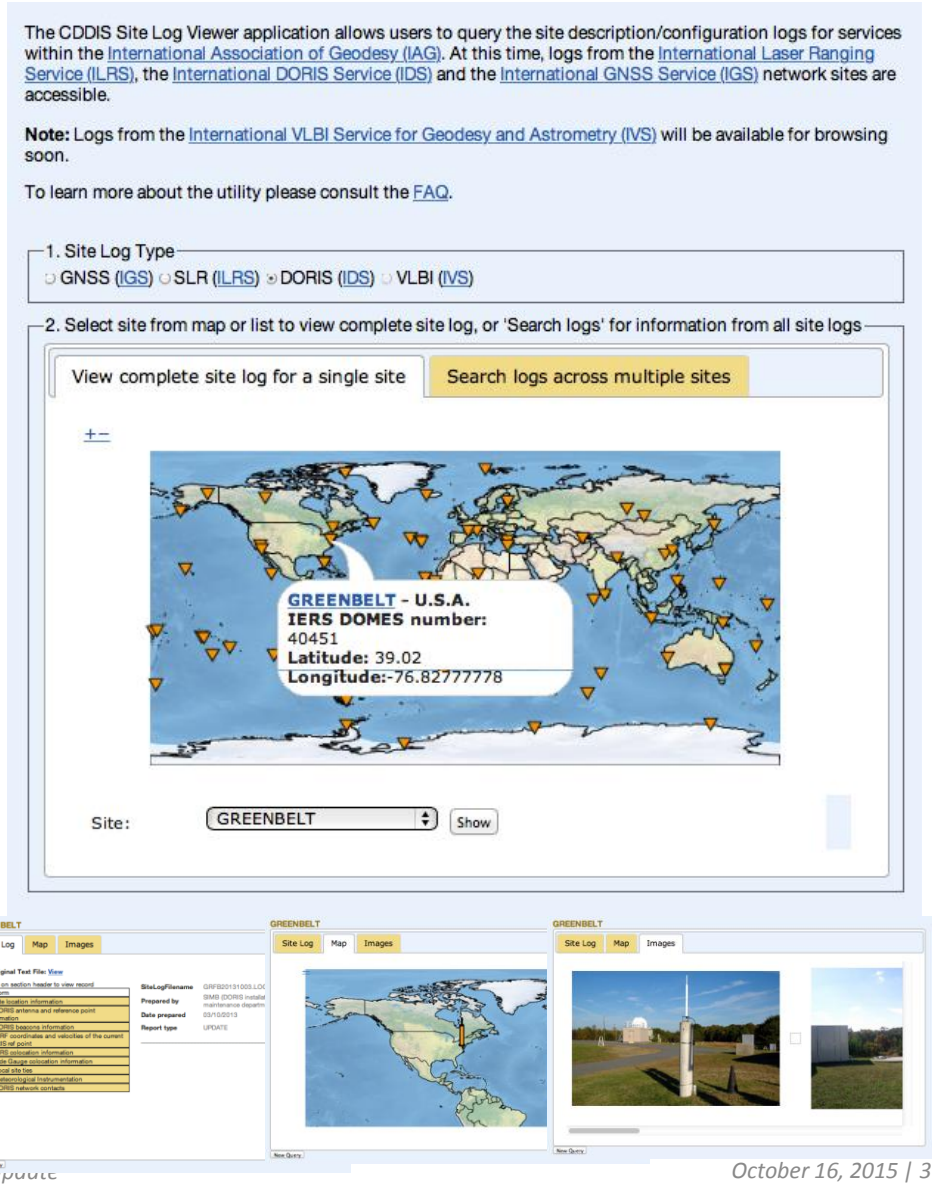
CDDIS Site Log Viewer

- Each of the IAG's geometric services has implemented a "site log" that is a key source for understanding how the station's configuration has changed over time
- The CDDIS developed the Site Log Viewer web app to allow users to browse the contents of the contents of these site logs
- Use Cases:
  - Users need to query the logs for a particular system to understand station configuration
  - Users need to determine which sites have equipment with a particular configuration
- Through the SiteLogViewer application, users can:
  - Display a complete site log, section by section
  - Display contents of all site logs for a specified topic (site log section)
  - Search the contents of all site logs for a specified parameter value
- Automated procedures download and ingest IDS, IGS, and ILRS site logs into a database supporting the application; IVS site logs will be added soon
- http://cddis.gsfc.nasa.gov/SLV2/network/QuerySiteLogs.action

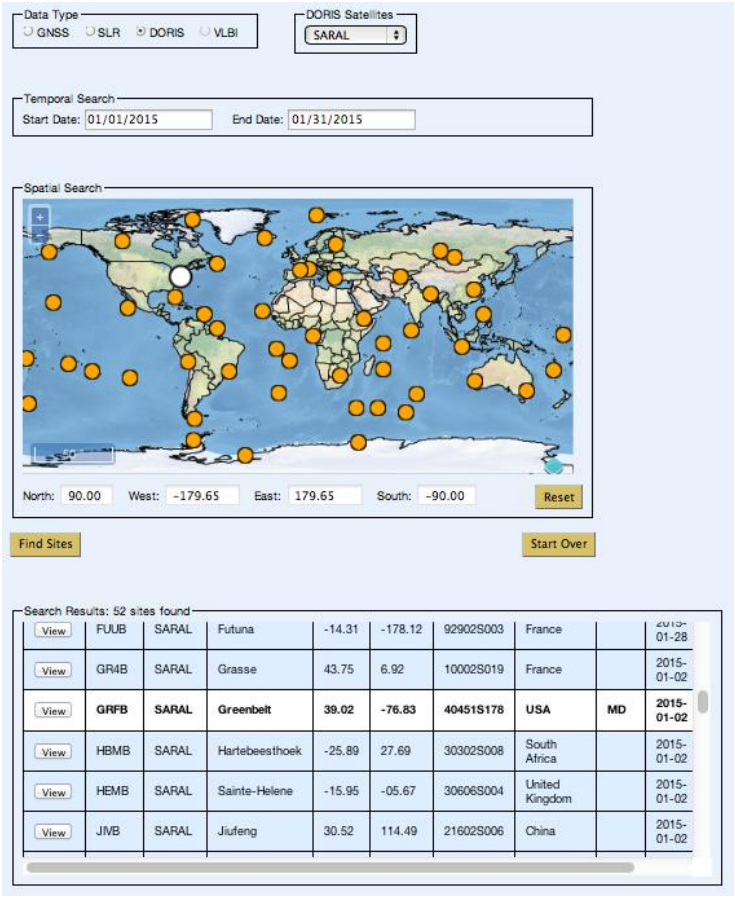
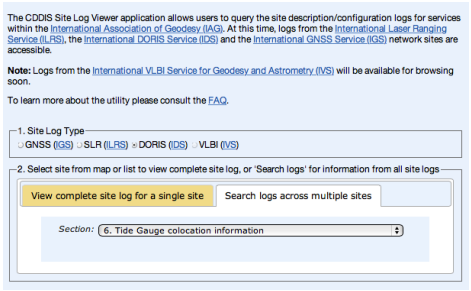
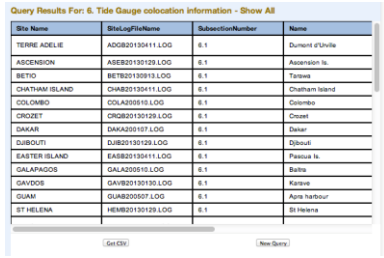
CDDIS Site Log Viewer (Example)

- The initial page of the SiteLogViewer application displays a list of system types/services
- The user first selects a technique/service. Once selected (e.g., IDS/DORIS) the map is populated with the locations of all IDS DORIS sites archived at the CDDIS.
- Two tabs are available:
  - View Complete Site Logs -- view a full site log (all sections) for one site
  - Query Site Logs -- view one section of all site logs; this option also allows the user to search the contents of one section of all site logs for a specified parameter value
- In this example, the user selects a site from the map/drop down menu (e.g., Greenbelt, MD).
- The resulting page shows three tabs for the GGAO site:
  - A list of sections found in the site log on the left, with the contents of the highlighted section on the right.
  - A zoom-able map of the selected site's location
  - A collection of images of the station and surroundings.



CDDIS Archive Explorer

- The CDDIS Archive Explorer is a search/metadata interface tool for CDDIS to:
  - Aid users in discovery of CDDIS data, products, and information
  - Aid staff in archive management
  - Promote CDDIS data holdings to a larger community (e.g., through metadata standards)
- Users can specify (any/all):
  - Temporal: Year, date/time, range
  - Spatial: Region, latitude/longitude, range
  - Target: Satellite (SLR, DORIS)
  - Designation: Station name/number/code/DOMES number (future)
- Results:
  - Map of sites satisfying specifications
  - List of sites satisfying specifications
  - List of data holdings satisfying specifications (future)
  - Metadata relevant to selection
  - Site log for site selection
- Application expected to be available through the CDDIS website in June 2015

CDDIS Archive Explorer (Example)

- The initial page of the data discovery application displays a list of system types (GNSS, SLR, DORIS, VLBI), a spatial specification window to allow the user to enter spatial subsetting through a map interface or a bounding box, and a temporal specification window to allow the user to specify date range.
- In this example, the user specifies a query for global DORIS data holdings for SARAL for the January 2015.
- The results show a list of sites; the site in Greenbelt is highlighted on the map and in the list below.
- By selecting the View button, contents of the DORIS site log for Greenbelt can be displayed, section by section.