

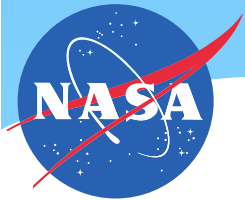
Global Data Assembly Center (GDAC) Report to the GHRSSST Science Team

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17th GHRSSST Science Team Meeting

Tysons Corner, VA, USA

6 June 2016



National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

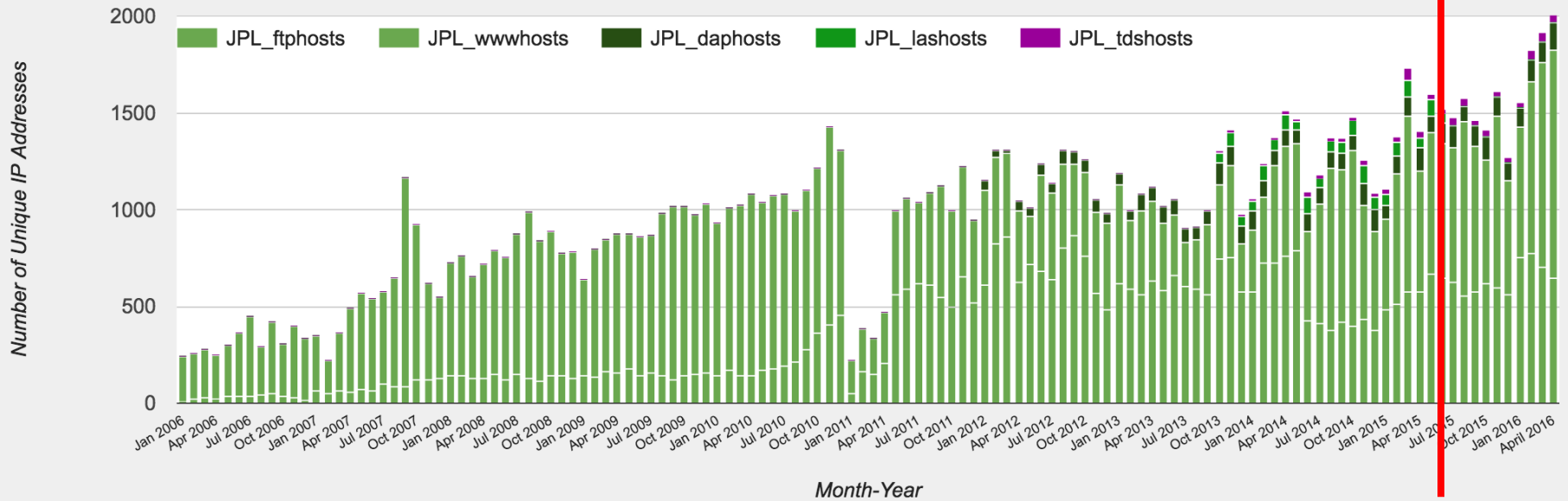
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Government sponsorship acknowledged.

GDAC Highlights

- * GHRSSST datasets
 - * Nearly all GHRSSST datasets are now GDS2
 - * Consistent monthly distribution near 30TBs
 - * Support operational datastreams for L2P/L3/L4 data from 15 RDACs
 - * Maintain linkages to data providers and LTSRF archive
 - * Coordinating with NASA ESDIS components on Sentinel-3A data
- * Continual development and improvement of tools and services for data usage Web services, Subsetting, Visualization, Data Aggregation, Metadata services
- * User community engagement
 - * Respond to GHRSSST user queries
 - * Work with applications users
 - * Populating PO.DAAC forum with data recipes and tutorials
- * Coordination on new Regional Global Task Sharing (R/G TS) architecture proposals
 - * Goal: Decentralize the ingest and distribution locations
 - * Focus on specific datasets and RDACs

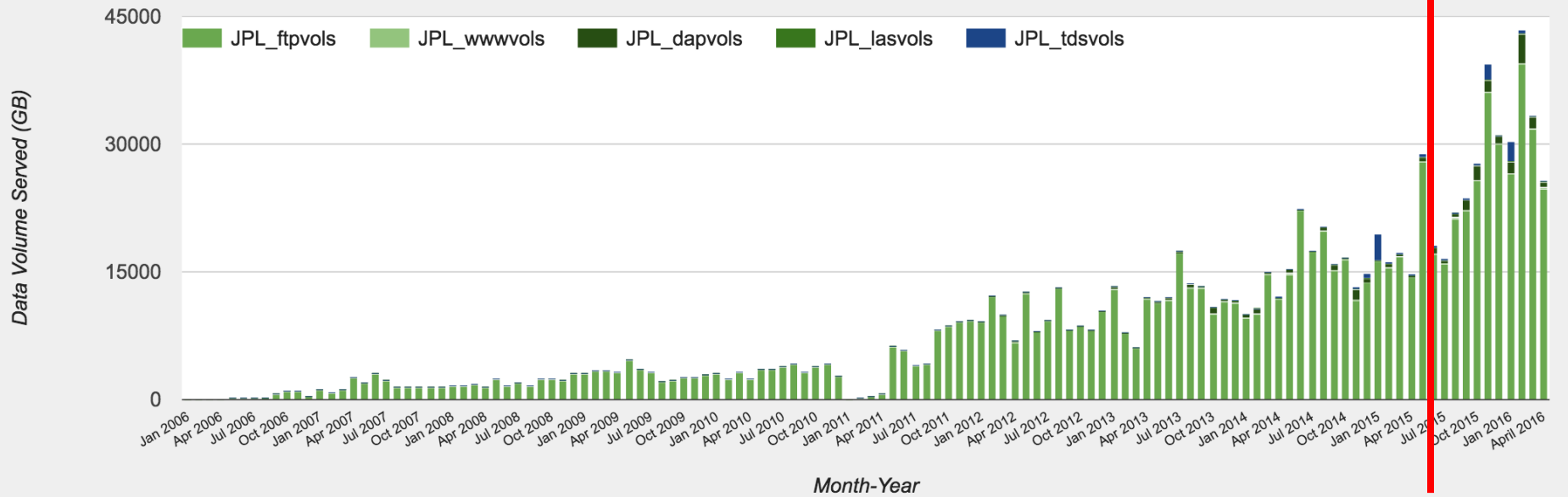
PO.DAC Distribution metrics: Monthly Unique Users

GHRSSST: Unique Hosts Served by JPL



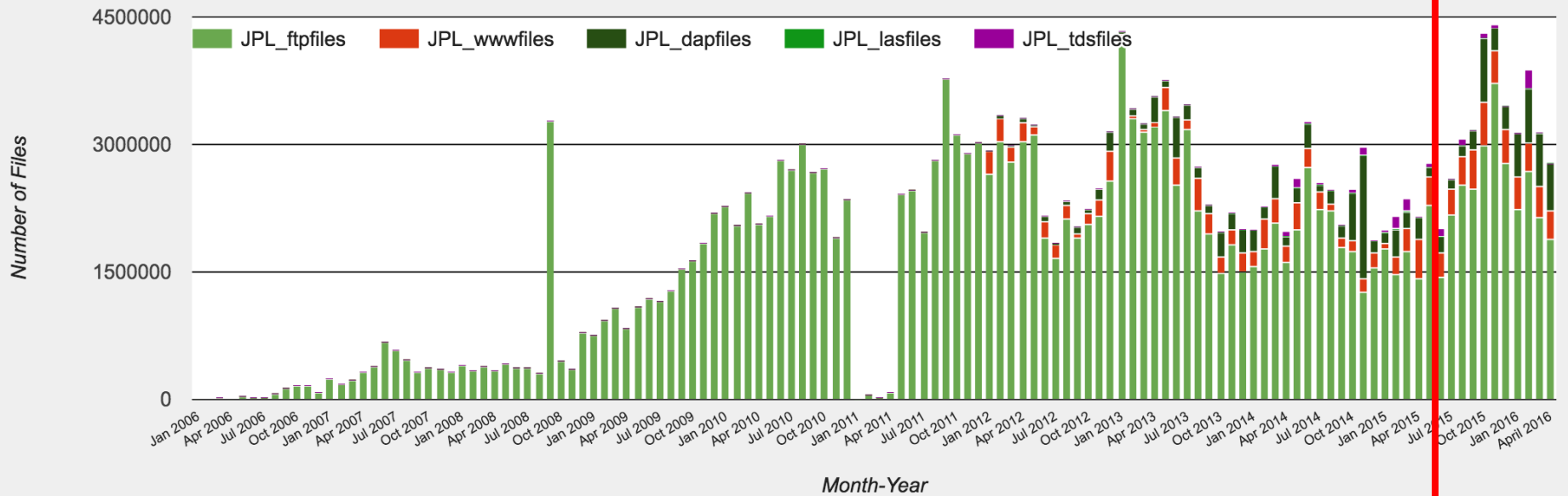
Volume of Monthly Files

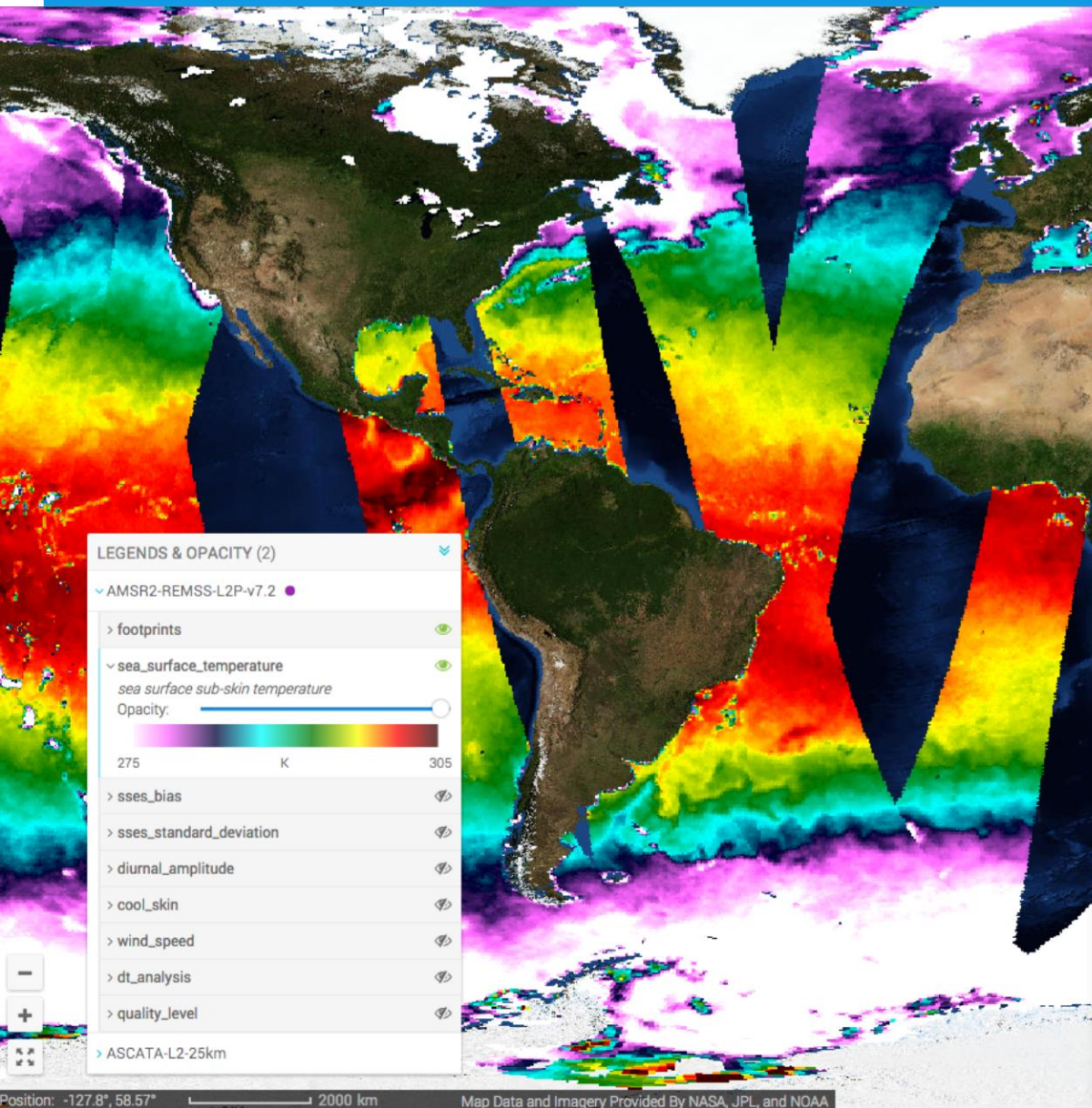
GHRSSST: Data Volumes Served at JPL



Number of Monthly Files

GHRSSST: Number of files served by JPL





Select & Preview Granules

Download matching granules for all datasets, for individual datasets, or click on a dataset to further filter and preview its granules.

Added Datasets	Matching Granules	Download	Close
AMSR2-REMSS-L2P-v7.2	1000	Download	Close
ASCATA-L2-25km	999	Download	Close

AMSR2-REMSS-L2P-v7.2 Granules

Filter by Name

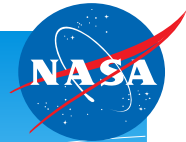
Filter by Date FROM TO

1000 matching search, 1000 matching filter, Displaying 50 out of 1000

Name	Start Time	End Time
I2b_rt_r20028-v02.0-fv01.0.nc		
20160221213456-REMSS-L2P_GHRSSST-SSTsubskin-AMSR2-I2b_v07_2_r20028-v02.0-fv01.0.nc	2016-02-21T09:34	2016-02-21T11:13
20160221082328-REMSS-L2P_GHRSSST-SSTsubskin-AMSR2-I2b_v07_2_r20020-v02.0-fv01.0.nc	2016-02-21T08:23	2016-02-21T10:01
20160221082328-REMSS-L2P_GHRSSST-SSTsubskin-AMSR2-I2b_rt_r20020-v02.0-fv01.0.nc	2016-02-21T08:23	2016-02-21T10:01
20160221195648-REMSS-L2P_GHRSSST-SSTsubskin-AMSR2-I2b_rt_r20027-v02.0-fv01.0.nc	2016-02-21T07:56	2016-02-21T09:34
20160221195648-REMSS-L2P_GHRSSST-SSTsubskin-AMSR2-I2b_v07_2_r20027-v02.0-fv01.0.nc	2016-02-21T07:56	2016-02-21T09:34

[ADD MATCHING GRANULES TO DOWNLOADS](#)

PO.DAAC Drive Demo



<https://podaac-uat.jpl.nasa.gov/drive>

Firefox File Edit View History Bookmarks Tools Window Help 9.15 GB Free Thu 1:17 PM David F Moroni

PO.DAAC

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EARTHDATA Data Discovery DAACs Community Science Disciplines

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Jason-3 Launches to Monitor Global Sea Level Rise
Jason-3, a U.S.-European oceanography satellite mission with NASA participation, lifted off from California on Sunday, 17 January 2016. Jason-3 will continue a nearly quarter-century record of tracking global sea level rise.

Spotlight

2018 User Working Group (UWG) Meeting
PO.DAAC welcomed our UWG, NASA HQ officials, and other DAAC representatives for the annual meeting on 22-23 March 2016.

Announcements

Events

Ocean Stories Dataset Highlights Animations Images

Jason-3: The Ocean Odyssey
Saturday, January 30, 2016
Jason-3 launched January 17, 2016. It is the 4th in a series of altimetric satellites, starting with TOPEX/Poseidon in 1992, that is...

Sea Level
Friday, January 29, 2016
Altimetric satellites are able to measure sea level and can observe how it has been changing with climate change since 1992. Not only...

Image of the Day

Sea Surface Height Anomaly: SARAL and Jason-2 Measurements from 21-Mar-2016 to 31-Mar-2016

State Of the Ocean (SOTO)

New 2D web-map version of State of the Ocean (SOTO).

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Clearance Number: CL05-0770

How to get URS Account: <https://urs.earthdata.nasa.gov/users/new>

Emerging Technologies

- * **Virtual Quality Screening Service (VQSS)**
 - * Seamlessly applying GDS2 quality information (quality_level, l2p_flags, etc.) to granule data extraction and subsetting requests
 - * Participate in GHRSSST data user survey
- * **OceanXtremes**
 - * Climatology generation, SST anomaly detection and mining using cloud based databases
- * **Distributed Oceanographic Matchup Service (DOMS)**
 - * Satellite to *in situ* (ICOADS, SPURS, ARGO, SAMOS) matchup service
- * See Armstrong et al. Poster on the above three topics
- * **Mining and Utilizing Dataset Relevancy from Oceanographic Dataset (MUDROD) Metadata, Usage Metrics, and User Feedback to Improve Data Discovery and Access**
 - * Improving data search relevancy (finding the right datasets)
 - * Text and relevance mining of science literature
 - * Coordinating with NASA Earth Science Data Systems Working Group (ESDSWG) on Search Relevance
 - * Chairs: Ed Armstrong and Lewis Mcgibbney

New GDS2 datasets

- * L2P
 - * MODIS v2104.0 Aqua and Terra
 - * Forward stream May 2016. Historical processing to commence soon.
 - * VIIRS ACPSO v2.4
 - * VIIRS NAVO v2
- * L3
 - * AVHRR Metop-B OSI-SAF. Global and and NAR.
 - * VIIRS OSPO
- * L4
 - * GOS Mediterranean and Black Sea
 - * CMCo.1deg
 - * NCEI AVHRR_OI
 - * REMSS mw_Oi and mw_ir_OI
- * Whats not GDS2??. G1SST L4, ABOM L4, NEODAAS L2P datasets

Summary

- * GHRSSST GDS2 “catalog” near complete
 - * datasets online, discoverable, available via tools and services
- * PO.DAAC continues to improve tools and services implemented for subsetting, discovery, dataset and granule web services.
 - * New interface “PO.DAAC Drive” for data download
 - * L2 subsetting service (L2SS) and revised HiTide coming
- * Further JPL technology development has implications for GHRSSST data and users (Armstrong et al. poster)
- * Issues for consideration:
 - * Regional/Global Task Sharing re architecture proposal (in DAS-TAG)
 - * Improving access to quality information
 - * Improve search relevance
 - * Dataset retirement of GDS1 or underutilized datasets