

Latest Datasets and Services at the:

poodaac

David Moroni

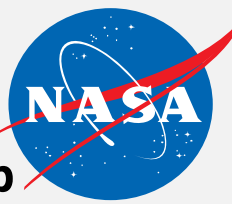
David.F.Moroni@jpl.nasa.gov

PO.DAAC Data Stewardship Team Lead

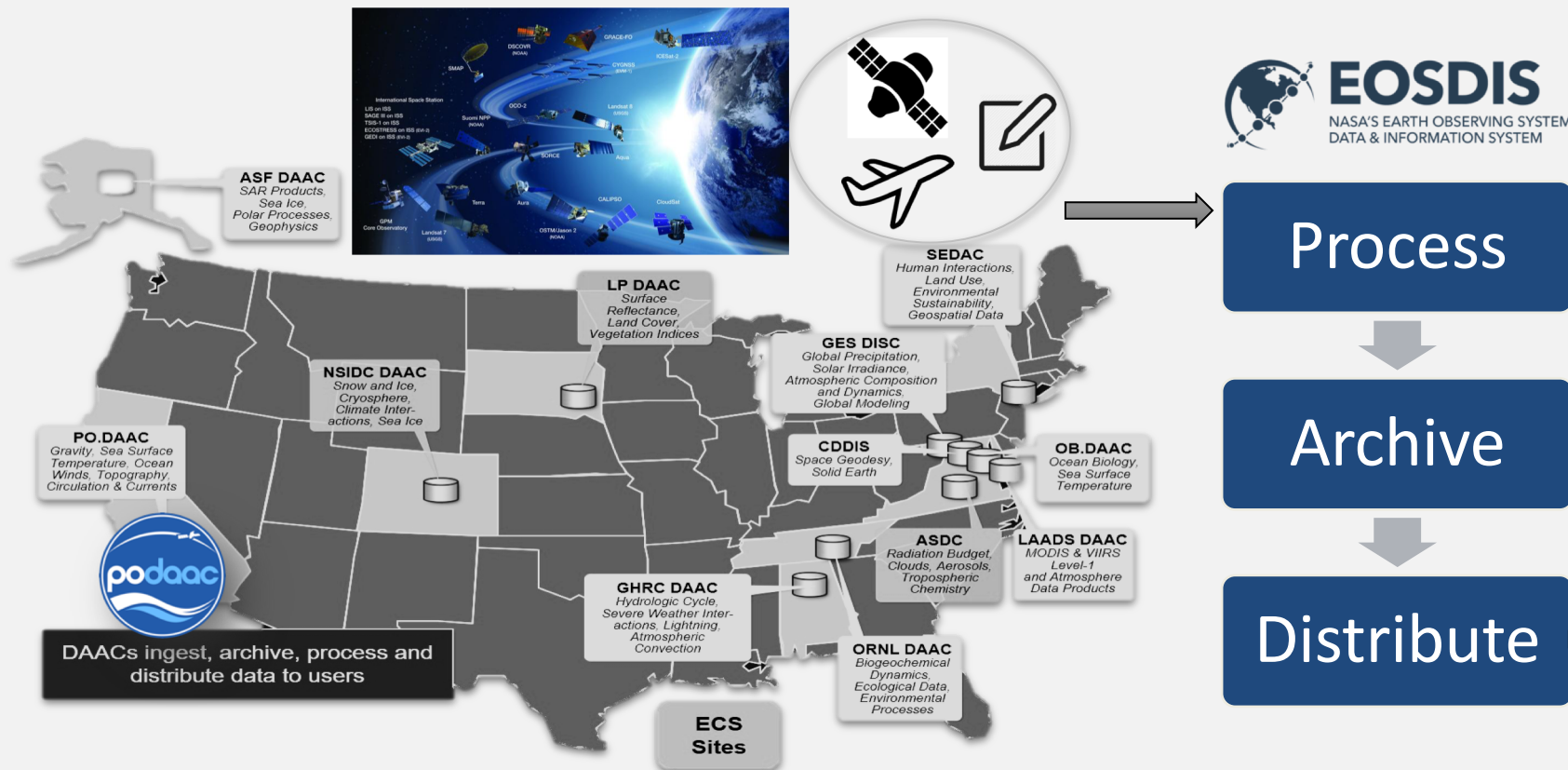
Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA

Physical Oceanography Distributed Active Archive Center (PO.DAAC)

<https://podaac.jpl.nasa.gov/>



PO.DAAC Global Data/Services Usage Heatmap



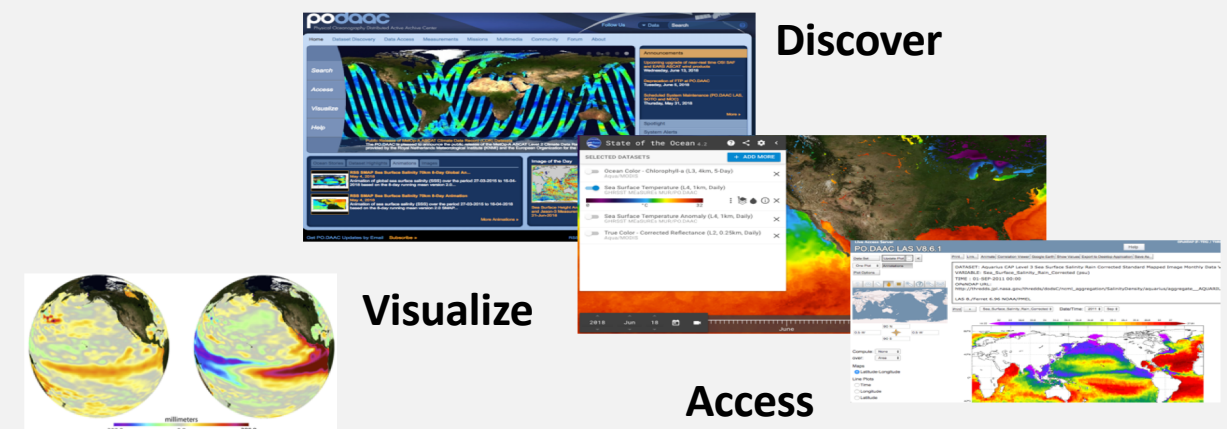
Missions & Projects

Seasat, TOPEX/Poseidon, Jason-1, NSCAT, SeaWinds on ADEOS-II, CYGNSS, GRACE-FO (2018), QuikSCAT, GRACE, GHRSSST, MEaSUREs, Aquarius, SPURS, ISS-RapidScat, AirSWOT, OMG, Jason-CS/Sentinel-6 (2020), SWOT (2021)

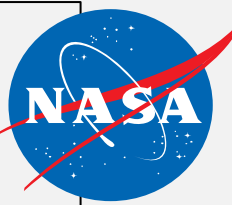
Parameters (632 Datasets)

Geodetics/Gravity (87)
Hydrology (11)
Ocean Circulation & Currents (8)
Ocean Surface Salinity (156)
Ocean Surface Topography (6)
Ocean Winds (104)
Sea Surface Temperature (226)
Sea Ice (39)

Tools



FTP Replacement: PO.DAAC Drive interface with WebDAV client:



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

FTP Goes Away Next Week on 3 June 2019

Open-source Project for a Network Data Access Protocol (OPeNDAP):

<http://opendap.jpl.nasa.gov>

**Thematic Rreal-time Environmental
Distributed Data Service (THREDDS):**

<https://thredds.jpl.nasa.gov>

Web Services (search/subset/extract):

<https://podaac.jpl.nasa.gov/ws>

PO.DAAC-PY (Python Library Toolkit):

<https://github.com/nasa/podaacpy>

Data Recipes: <http://bit.ly/datarecipes>

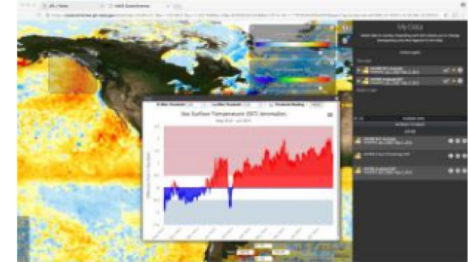
**State of the Oceans (SOTO) Version 5.0
(Summer '19)**

- CYGNSS Data Layers.
- Visualization and Analytics powered by NEXUS.
- **<https://podaac-tools.jpl.nasa.gov/soto/>**

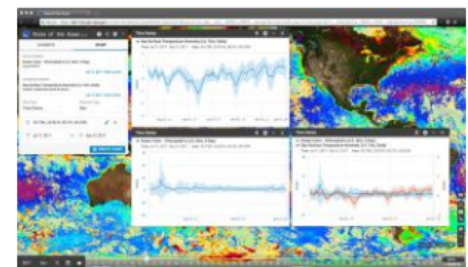
**HiTIDE L2 Subsetter – Many New
Layers Coming this Summer!**

- RapidScat V2.0, QuikSCAT V4.0,
ASCAT CDR, CYGNSS V2.1.

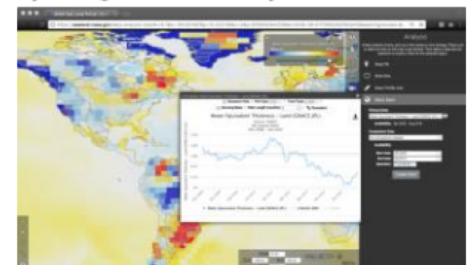
Oceanographic Anomaly Detection



PO.DAAC State Of The Ocean



Hydrological Basin Analysis



13 New Wind Datasets

Version 5.0 Aquarius CAP Wind Speed

- Released 2 Oct. 2018.
- Daily, 7 day, monthly; 1x1 degree L3; 96x390 km L2.

SMAP L2/L3 CAP Version 4.2 (JPL) Wind Speed

- Released 25 Jan. 2019.
- Daily, 8-Day, Monthly; 60 km L2; 0.25x0.25 degree L3.

Saildrone Baja Field Campaign Wind Speed

- Released 20 Dec. 2018.
- 1-minute resolution surface trajectories.
- Collected by a Gill Anemometer at 5-m height.

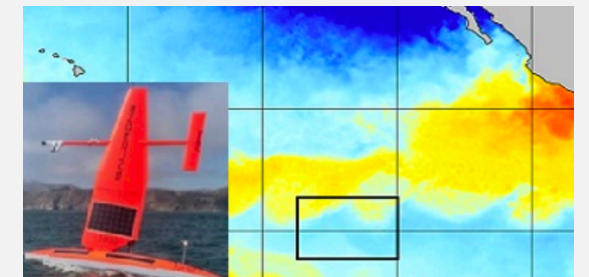


Saildrone SPURS-2 E. Tropical Pacific Field Campaign

- Released 9 April 2019.
- 1-minute resolution surface trajectories.
- Collected by a Gill Anemometer at 5-m height.

QuikSCAT L1C Non-Spinning V2.0

- Released 14 Feb. 2019.
- 16 July 2010 to 30 Aug. 2018.
- Sigma-0 and wind vectors at 25-km along-track resolution.



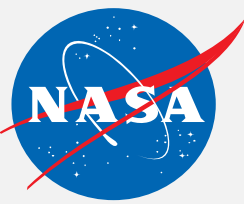
CYGNSS Version 2.1 L1, L2, and L3

- Released 21 Sep. 2018.
- Second science quality, full public release.
- 18 March 2017 to present day.
- 6-day latency.

Note: DOIs are available for all “Open” Datasets! Please cite accordingly when publishing.

<https://podaac.jpl.nasa.gov/CitingPODAAC>

New Dataset User Guide Publications!

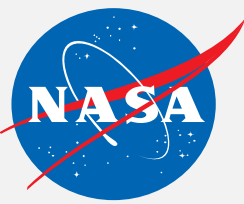


- **QuikSCAT L2B Version 4:**

- https://podaac-tools.jpl.nasa.gov/drive/files/allData/quikscat/L2B12/docs/qscat_l2b_user_guide_v4.pdf

- **RapidScat L2B Version 2:**

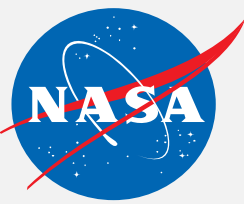
- https://podaac-tools.jpl.nasa.gov/drive/files/allData/rapidscat/L2B12/docs/rscat_l2b_user_guide_v2.pdf



Upcoming Datasets

- Cyclone Global Navigation Satellite System (**CYGNSS**):
 - Version 2.2 and 3.0: expected availability is July/August 2019.
- **QuikSCAT L2B Version 4.1.**
 - Expected by August 2019.
- **ASCAT:**
 - MetOp-B L2 CDR (TBD, est. late 2019, KNMI).
 - MetOp-C Operational L2 (TBD, est. summer 2019, KNMI).

Comments/Questions Always Welcome!



- Drive has replaced FTP: <https://podaac-tools.jpl.nasa.gov/drive>
- Tutorials: <http://bit.ly/podaactutorials>
- User Forum: <https://podaac.jpl.nasa.gov/forum/>
 - *Data Recipes (server-side subsetting, numerical analysis, machine learning, etc...)*
 - *Tutorials (search, extract, subset, tools, services, etc...)*
 - *Frequently Asked Questions (FAQs)*
 - *User Questions*
 - *Ocean Stories*
- How to get URS Account: <https://urs.earthdata.nasa.gov/users/new>
- Join our Mailing list: podaac@podaac.jpl.nasa.gov