podaac
Physical Oceanography Distributed Active Archive Center

Data Metrics at PO.DAAC

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Outline

- PO.DAAC and NASA EOSDIS
- DOI minting and registration
- Metrics gathering exercise
- Metrics API
- Landing page metrics

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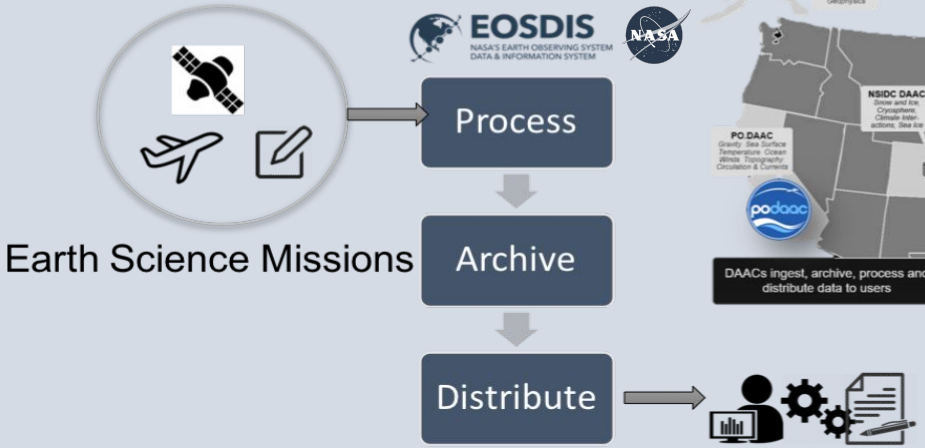
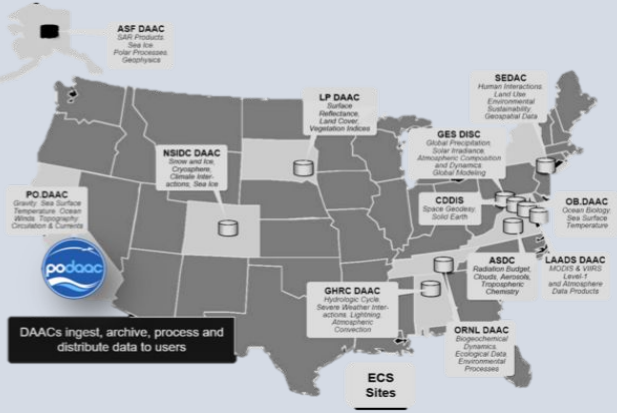
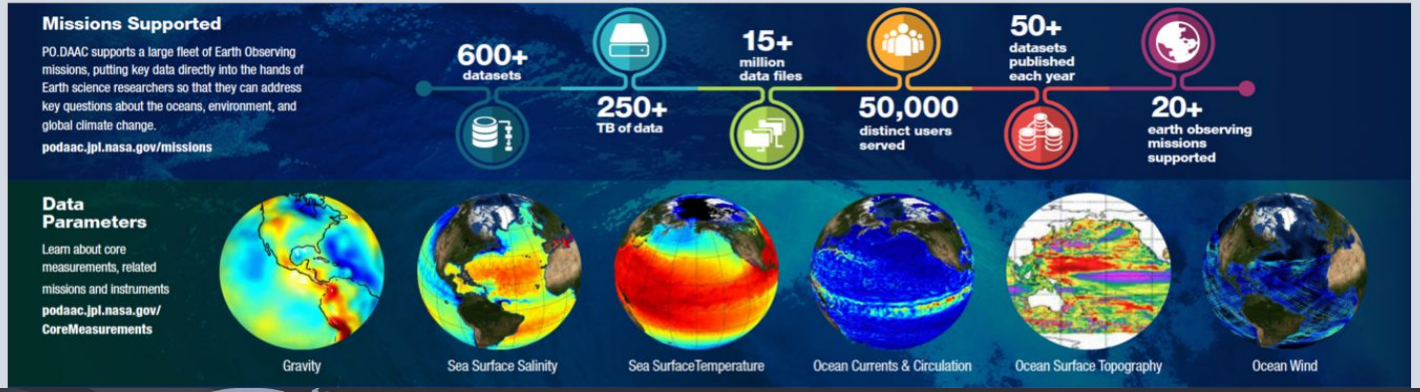
What is PO.DAAC? https://podaac.jpl.nasa.gov/





Distributed Active Archive Centers (DAAC)



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Metrics Gathering

- Worked with the JPL Library manually gathering data metrics for 2016 and 2017
- Over 500 citations, acknowledgments, mentions in methodology
- Too tedious to be sustainable

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Metrics Reporting API

- Developed by Lewis McGibbney
- https://github.com/nasa/podaacpy/blob/master/examples/podaac_metrics.ipynb
- Gathers metrics from different citation bots
- That is then exposed on the landing pages

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Parameter | Latency | Collections | Platform | Sensor | Spatial Coverage

Select Filter

Processing Levels

Level-4 (Blended) (1)

Grid Spatial Resolution

≤ 0.05 deg (1)

Temporal Resolution

Daily (1)

Parameter

Ocean Temperature (1)

Latency

Delayed Mode (1)

Collections

Climate Data Record (1)
Group for High Resolution Sea Surface Temperature Datasets (1)
MEaSUREs (1)

Platform

Aqua (1)
CORIOLIS (1)
NOAA-19 (1)
Terra (1)

Sensor

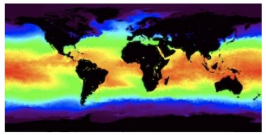
AMSR-E (1)
AVHRR-3 (1)
MODIS (1)
WINDSAT (1)

Spatial Coverage

Global (1)

Data Format

All Products › Advanced Search: Text



GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1)

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https://podaac.jpl.nasa.gov/dataset/MUR-JPL-L4-GLOB-v4.1

Please contact us if there are any discrepancies or inaccuracies found below.

6 Publications Cited this Dataset >>

Citation metrics available for years (2016-2017)

Information | Data Access | Documentation | Citation | Granule (File) Listing

DOI 10.5067/GHGMR-4FJ04

Short Name MUR-JPL-L4-GLOB-v4.1

Description A Group for High Resolution Sea Surface Temperature (GHRSST) Level 4 sea surface temperature analysis produced as a retrospective dataset (four day latency) and near-real-time dataset (one day latency) at the JPL Physical Oceanography DAAC using wavelets as basis functions in an optimal interpolation approach on a global 0.01 degree grid. The version 4 Multiscale Ultrahigh Resolution (MUR) L4 analysis is based upon nighttime GHRSST L2P skin and subskin SST observations from several instruments including the NASA Advanced Microwave Scanning Radiometer-EOS (AMSRE), the Moderate Resolution Imaging Spectroradiometer (MODIS) on the NASA Aqua and Terra platforms, the US Navy microwave WindSat radiometer, Advanced Very High Resolution Radiometer (AVHRR) on several NOAA satellites, and in situ SST observations from the NOAA iQuam project. The ice concentration data are from the archives at the EUMETSAT Ocean and Sea Ice Satellite Application Facility (OSI SAF) High Latitude Processing Center and are also used for an improved SST parameterization for the high-latitudes. This data set is funded by the NASA MEaSUREs program(http://earthdata.nasa.gov/our-community/community-data-system-programs/measures-projects), and created by a team led by Dr. Toshio M. Chin from JPL. This dataset adheres to the GHRSST Data Processing Specification (GDS) version 2 format specifications.

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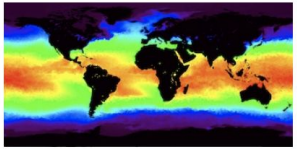

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Citation

JPL MUR MEaSUREs Project. 2015. GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1). Ver. 4.1. PO.DAAC, CA, USA. Dataset accessed [YYYY-MM-DD] at https://doi.org/10.5067/GHGMR-4FJ04.

Download Citation

RIS **XML** **JSON-LD**

For more information see Data Citations and Acknowledgments.

Journal Reference

Information on the analysis can be found at ftp://mariana.jpl.nasa.gov/mur_sst/tmchin/docs/ATBD/

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Close

Publications citing GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1)

Citation metrics available for years (2016-2017)

Search:

Year	Citation
2017	Shelf-edge exchange in a numerical model of the Shetland shelf, PhD Thesis,http://hdl.handle.net/10044/1/52909
2017	A multi-scale high-resolution analysis of global sea surface temperature, Remote Sensing of,https://doi.org/10.1016/j.rse.2017.07.029
2017	GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1). Ver. 4.1. PO.DAAC, CA,USA. Available at http://dx.doi.org/10.5067/GHGMR-4FJ04. (Accessed 21 September 2016) High-resolution modeling of thermal thresholds and multiple environmental influences on coral bleaching for regional and local reef managements, bioRxiv,https://doi.org/10.1101/211854
2017	JPL MUR MEaSUREs Project(2015).GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1)In:CA, USA: PO.DAAC, DOI:https://doi.org/10.5067/GHGMR-4FJ04Ver. 4.1. Collaborations and Partnerships in NASA's Earth Science Data Systems, Data Science Journal,https://doi.org/10.5334/dsj-2017-051
2017	JPL MUR MEaSUREs Project. GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1). Ver. 4.1. PO.DAAC, CA, USA.https://podaac.jpl.nasa.gov/dataset/MUR-JPL-L4-GLOB-v4.1. Accessed 10 Feb 2016. Remote sensing measurements of sea surface temperature as an indicator of Vibrio parahaemolyticus in oyster meat and human illnesses, Environmental,https://doi.org/10.1186/s12940-017-0301-x
2017	JPL MUR MEaSUREs Project. GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1) (PO.DAAC, 2015). Reconciling the opposing effects of warming on phytoplankton biomass in 188 large lakes, Scientific reports,https://doi.org/10.1038/s41598-017-11167-3

Total number of records: 6

owledged.

Data Citation and Acknowledgements

Our datasets are provided through the NASA Earth Science Data and Information System (ESDIS) project. PO.DAAC is one of the Earth Observing System Data and Information System (EOSDIS) Distributed Active Archive Centers (DAACs), part of the ESDIS project. NASA data are not copyrighted; however, when you publish our data or results derived therefrom, we request that you include an acknowledgment within the text of the publication and reference list.

References

References to datasets should have enough detail to provide readers of your publication the ability to obtain the datasets and conduct their own studies based on your work. See the examples below. The examples include datasets identifiable with a unique identifier such as Digital Object Identifier (DOI) as well as other types of datasets, images or webpages that are relevant for referencing. Please note that the dataset information pages or DOI landing pages for specific datasets provide the citation formats that you may use directly.

Datasets

JPL MUR MEaSUREs Project. 2010. GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis. Ver. 2. PO.DAAC, CA, USA. Dataset accessed [2015-11-05] at http://dx.doi.org/10.5067/GHGMR-4FJ01.

Frank Wentz, Simon Yueh, Gary Lagerloef. 2014. Aquarius Level 3 Sea Surface Salinity Standard Mapped Image Annual Data V3.0. Ver. 3.0. PO.DAAC, CA, USA. Dataset accessed [2015-11-05] at http://dx.doi.org/10.5067/AQUAR-3SAPS.

Website

Physical Oceanography Distributed Active Archive Center (PO.DAAC). 2015. Firefox ESR v38.4.0 Web Page. Available online [https://podaac.jpl.nasa.gov/] from NASA EOSDIS PO.DAAC, Pasadena, CA, Accessed November 5, 2015.

Acknowledgements

An acknowledgement is a general statement crediting the NASA EOSDIS PO.DAAC for data, assistance, and/or review. Please include this statement in a paragraph at the end of an article, before the reference list.

Dataset

"The Group for High Resolution Sea Surface Temperature (GHRSST) Multi-scale Ultra-high Resolution (MUR) SST data were obtained from the NASA EOSDIS Physical Oceanography Distributed Active Archive Center (PO.DAAC) at the Jet Propulsion Laboratory, Pasadena, CA (http://dx.doi.org/10.5067/GHGMR-4FJ01)."

Tools and Services

"The Group for High Resolution Sea Surface Temperature (GHRSST) Multi-scale Ultra-high Resolution (MUR) SST data were obtained from the Live Access Server (LAS) at the NASA EOSDIS Physical Oceanography Distributed Active Archive Center (PO.DAAC), Jet Propulsion Laboratory, Pasadena, CA (https://podaac.jpl.nasa.gov/las)."