

## DATA & APPLICATIONS ONLINE

# Group for High Resolution Sea Surface Temperature (GHRSSST)

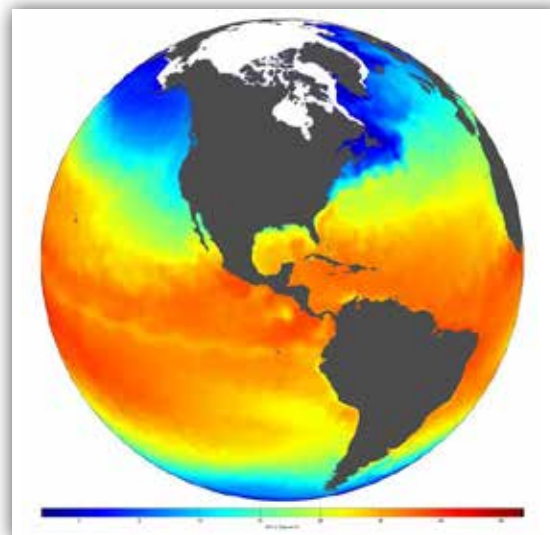
### Overview

The Group for High Resolution Sea Surface Temperature (GHRSSST) Project is an international collaboration to produce global (and regional), multi-sensor, high-resolution near real-time and retrospective SST products. These are derived from measurements made by infrared and microwave sensors onboard several Earth satellite platforms. The GHRSSST Global Data Assembly Center at the NASA JPL Physical Oceanography DAAC (PO.DAAC) integrates the data products produced from several regional data assembly centers around the world and distributes them to the global science and application communities.

### About the Data

Near real-time Level-2 Preprocessed (L2P) swath and Level 3 (L3) gridded SST datasets are produced for specific sensors, along with Level 4 (L4) blended datasets made by combining data from different instruments. The products are available in netCDF format and include uncertainty statistics and other ancillary information. Over 60 GHRSSST datasets with different processing levels, spatial/temporal resolutions and spatial coverages are available. The GHRSSST data collection spans 1981 to the present.

- L2P products: Coverage: Global & regional  
Resolution: 0.8-25 km depending on sensor (e.g., 1 km for MODIS and AATSR, 25 km for AMSR-E and TMI); 15 minutes to daily refresh
- L3 and L4 products: Coverage: Global & regional  
Resolution: 0.01-0.25 degree grids; Daily & monthly
- GHRSSST Project: <http://www.ghrsst.org>
- PO.DAAC portal to the GHRSSST Project: <http://ghrsst.jpl.nasa.gov>
- For recent GHRSSST Webinars: <http://tinyurl.com/earthdatawebinar>



### Data Access

Datasets are available through <ftp://podaac.jpl.nasa.gov/allData/ghrsst>, although only a limited time series of L2P data are available at this site. Historical data, including L2P, that are at least 30 days old are available at the GHRSSST Long Term Stewardship and Reanalysis Center (LTSRF): <http://ghrsst.nodc.noaa.gov>.

### References

- Sensing Our Planet, 2012, Shadowing the tuna boats, <https://earthdata.nasa.gov/featured-stories/featured-research/shadowing-tuna-boats>
- Sensing Our Planet, 2013, Sizing a tsunami, <https://earthdata.nasa.gov/featured-stories/featured-research/sizing-tsunami>
- Sensing Our Planet, 2008, Where oceans meet atmosphere, <https://earthdata.nasa.gov/featured-stories/featured-research/where-oceans-meet-atmosphere>



**Physical Oceanography DAAC**  
NASA Jet Propulsion Laboratory  
Pasadena, California  
<http://podaac.jpl.nasa.gov>



**EOSDIS DAACs**  
PO.DAAC is one of twelve NASA Earth Observing System Data and Information System (EOSDIS) Distributed Active Archive Centers (DAACs).

To learn more about data and tools available from EOSDIS, go to [earthdata.nasa.gov](http://earthdata.nasa.gov).