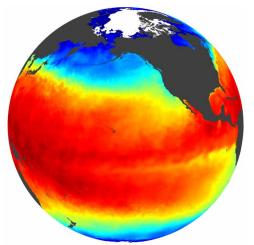


## **Group for High Resolution Sea Surface Temperature (GHRSST)**





About this image: A Met Office OSTIA daily L4 analysis field from November 2, 2005 created using GHRSST L2P input.

**M**anagers, scientists and operational users of sea surface temperature (SST) have traditionally been confronted with a bewildering set of options in terms of product content, coverage, spatial resolution, timeliness, format, and accuracy. To solve these problems, the international Group for High Resolution SST (GHRSST, formerly GODAE High Resolution SST Pilot Project) has established an operational system for delivering a new generation of global coverage high-resolution (better than 10 km) SST data products in both real-time (~ 6 hourly) and delayed mode.

GHRSST data products are derived by combining complementary Level-2 Preprocessed (L2P) satellite and in situ observations to improve spatial coverage, temporal resolution,

GHRSST Regional/Global Task **Sharing Framework** Regional Data Assembly Centers (RDACs) nteroperable User Access via OPeNDAP, TDS, WCS, FTP... User Requirements, Services, and Feedback at all Levels EUR Level 2, 3, and 4 GHRSST satellite SST data in COARDS/CF-compliant netCDF-3 with GCMD DIF metadata Global Data Assembly Center (GDAC) PL PO.DAAC GDAC Ancillary fields filled as needed, initial FGDC metadata records appended, data provided in 30-day rolling store **NODC Long Term Stewardship** and Reanalysis Facility (LTSRF) Perpetual archive services, data access and aggregation, climate data records, and complete FGDC and DIF metadata

Diagram of the GHRSST Regional/Global Task Sharing framework.

crosssensor calibration stability and SST product accuracy. Both real-time products and retrospective climate data records are generated by GHRSST, which orchestrates a wide variety of input and output data. The data must be shared, indexed, processed, quality controlled, analyzed and documented within an international framework (see figure at left). Large volumes of data and data services are harnessed together to deliver the new generation of global coverage high resolution SST data sets.

 ${f T}$ he NOAA National Oceanographic Data Center (NODC) maintains the long-term archive (http://ghrsst.nodc.noaa.gov/) and works collaboratively with the NASA JPL/ Caltech Physical Oceanography Distributed Active Archive Center (PO.DAAC) Global Data Assembly Center (GDAC) to provide key stewardship of these valuable data sets. For more information and access to the comprehensive suite of data products and services, see the GHRSST web site at:

http://www.ghrsst-pp.org

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