



## EARTH SYSTEM SCIENCE

## Data and Services

## OCEAN Data Set Reference Sheet

February 2008

Physical Properties	Data Center	<b>Selected Data Sets and Data Collections</b> <i>Complete data set listings available through each individual data center. For more information about NASA's Earth Observing System Data and Information System (EOSDIS) data centers, see: <a href="http://nasadaacs.eos.nasa.gov">http://nasadaacs.eos.nasa.gov</a></i>
<b>Surface Temperature</b> SST	<b>GES DISC</b> <a href="http://daac.gsfc.nasa.gov">http://daac.gsfc.nasa.gov</a>	<ul style="list-style-type: none"> <li>• Ocean Color Time Series Products, through Giovanni tool</li> </ul>
	<b>GHRC</b> <a href="http://ghrc.msfc.nasa.gov">http://ghrc.msfc.nasa.gov</a>	<ul style="list-style-type: none"> <li>• TRMM Microwave Imager (TMI) Wentz Ocean Products (SST under all cloud conditions, plus surface wind speed and other atmospheric parameters)</li> <li>• Advanced Microwave Sounding Unit-A (AMSU-A) Swath from NOAA-15, NOAA-16, NOAA-17</li> </ul>
	<b>LaRC DAAC</b> <a href="http://eosweb.larc.nasa.gov">http://eosweb.larc.nasa.gov</a>	<ul style="list-style-type: none"> <li>• First ISCCP Regional Experiment (FIRE) data sets</li> </ul>
	<b>NSIDC DAAC</b> <a href="http://nsidc.org/daac">http://nsidc.org/daac</a>	<ul style="list-style-type: none"> <li>• AMSR-E/Aqua Daily, Weekly, and Monthly L3 Global Ascending/Descending .25x.25 deg Ocean Grids</li> <li>• AMSR-E/Aqua L2B Global Swath Ocean Products derived from Wentz Algorithm</li> </ul>
	<b>OceanColor Web</b> <a href="http://oceancolor.gsfc.nasa.gov/">http://oceancolor.gsfc.nasa.gov/</a>	<ul style="list-style-type: none"> <li>• MODIS/Terra and MODIS/Aqua Level-2 Standard SST Product</li> <li>• MODIS/Terra and MODIS/Aqua Level-3 Binned SST Products [daily, 8-day, monthly, monthly climatology, seasonal, seasonal climatology, and yearly files]</li> <li>• MODIS/Terra and MODIS/Aqua Level-3 Standard Mapped SST Products [daily, 8-day, monthly, monthly climatology, seasonal, seasonal climatology, and yearly files]</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>• AVHRR Oceans Pathfinder 4km Global SST</li> <li>• AVHRR Oceans Pathfinder 9km Global SST and Buoy Match-up Data</li> <li>• AVHRR Pathfinder Global 9km SST Climatology</li> <li>• NSIPP AVHRR Pathfinder and Erosion Global 9km SST Climatology</li> <li>• AVHRR Gridded 18km MCSST Level 3 (NAVOCEANO) and NAVOCEANO MCSST Level 2 HRPT/LAC Data</li> <li>• AVHRR Orbital 9km MCSST Level (NAVOCEANO)</li> <li>• AVHRR Weekly Global 18km Gridded MCSST (Univ of Miami)</li> <li>• GOES L3 6km Near-Real-Time SST (NOAA/NESDIS)</li> <li>• Global Ocean Surface Temperature Atlas Plus (GOSTAplus)</li> <li>• MODIS/Terra Global Level 3 Mapped Thermal and Mid-IR SST*</li> <li>• MODIS/Aqua Global Level 3 Mapped Thermal and Mid-IR SST*</li> <li>• NCEP Reynolds Optimally Interpolated SST</li> <li>• NCEP Reynolds Extended Reconstructed Sea Surface Temperatures SST</li> <li>• GODAE High Resolution Sea Surface Temperature Pilot Project (GHRSSST-PP) L2P multisensor and L4 multisensor merged SST products</li> </ul>
<b>Phytoplankton &amp; Dissolved Organic Matter</b>	<b>GES DISC</b> <a href="http://daac.gsfc.nasa.gov">http://daac.gsfc.nasa.gov</a>	<ul style="list-style-type: none"> <li>• Ocean Color Time Series Products, through Giovanni tool</li> </ul>
	<b>OceanColor Web</b> <a href="http://oceancolor.gsfc.nasa.gov/">http://oceancolor.gsfc.nasa.gov/</a>	<ul style="list-style-type: none"> <li>• MODIS/Aqua Level-2 Standard Ocean Color Product [normalized water-leaving radiances at 6 visible wavelengths, chlorophyll-a concentration, diffuse attenuation coefficient plus parameters related to aerosol corrections]</li> <li>• SeaWiFS Level-2 Standard Ocean Color Product [same geophysical parameter set]</li> <li>• OCTS Level-2 Standard Ocean Color Product [same geophysical parameter set]</li> <li>• CZCS Level-2 Standard Ocean Color Product [same geophysical parameter set, with 4 visible wavelengths]</li> <li>• MODIS/Aqua, SeaWiFS, OCTS, and CZCS Level-3 Binned Ocean Color Products [All Level-2 parameters in daily, 8-day, monthly, monthly climatology, seasonal, and yearly products, plus seasonal climatology for MODIS/Aqua]</li> <li>• MODIS/Aqua, SeaWiFS, OCTS, and CZCS Level-3 Standard Mapped Image Ocean Color Products [Chlorophyll-a, the normalized water-leaving radiance closest to 550 nm for each instrument, diffuse attenuation coefficient (except for CZCS), aerosol optical depth, and angstrom coefficient, separately available for all temporal resolutions corresponding to the Level-3 Binned Products, plus 32-day rolling products for MODIS/Aqua and SeaWiFS.</li> <li>• MODIS/Terra Level-3 Ocean Color Products [A limited set starting from January 2007 of Level-3 Binned and Mapped Image Products]</li> <li>• SeaWiFS Level-3 PAR Binned and Mapped Image Products [Photosynthetically Active Radiation reaching the ocean surface, available in daily, 8-day, monthly, seasonal, and yearly files]</li> </ul>

<b>Surface Wind Fields</b>	<b>GHRC</b> <a href="http://ghrc.msfc.nasa.gov">http://ghrc.msfc.nasa.gov</a>	<ul style="list-style-type: none"> <li>SSM/I Daily Gridded/Swath Oceanic Wind Speed</li> <li>TRMM Microwave Imager (TMI) Wentz Ocean Products (with other atmospheric parameters plus SST under all cloud conditions)</li> </ul>
	<b>LaRC DAAC</b> <a href="http://eosweb.larc.nasa.gov">http://eosweb.larc.nasa.gov</a>	<ul style="list-style-type: none"> <li>First ISCCP Regional Experiment (FIRE) data sets</li> <li>Surface meteorology and Solar Energy (SSE) data set</li> </ul>
	<b>NSIDC DAAC</b> <a href="http://nsidc.org/daac">http://nsidc.org/daac</a>	<ul style="list-style-type: none"> <li>AMSR-E/Aqua Daily, Weekly, and Monthly L3 Global Ascending/Descending .25x.25 deg Ocean Grids</li> <li>AMSR-E/Aqua L2B Global Swath Ocean Products derived from Wentz Algorithm</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>SeaWinds on QuikSCAT Level 2B and Level 3 Ocean Wind Vectors</li> <li>SeaWinds on ADEOS-II Level 2B and Level 3 Ocean Wind Vectors</li> <li>BYU Daily Browse Images of QuikSCAT Sigma-0 Measurements</li> <li>BYU Daily Browse Images of SeaWinds Sigma-0 Measurements</li> <li>NSCAT Science Product, Levels 1.7, 2, 3</li> <li>NSCAT Global 25km Sigma-0 and Ocean Winds</li> <li>Seasat Scatterometer Products</li> <li>SSM/I Derived Global Ocean Surface Wind Components</li> </ul>
<b>Heat Flux</b>	<b>LaRC DAAC</b> <a href="http://eosweb.larc.nasa.gov">http://eosweb.larc.nasa.gov</a>	<ul style="list-style-type: none"> <li>First ISCCP Regional Experiment (FIRE) data sets</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>SMMR, GOES-W VISSR Tropical Pacific Surface Thermal Forcing Parameters</li> <li>SSM/I Derived Global Heat and Momentum Fluxes</li> </ul>
<b>Ocean Surface Topography</b> Height, waves, sea level, tide models	<b>LaRC DAAC</b> <a href="http://eosweb.larc.nasa.gov">http://eosweb.larc.nasa.gov</a>	<ul style="list-style-type: none"> <li>First ISCCP Regional Experiment (FIRE) data sets</li> </ul>
	<b>NSIDC DAAC</b> <a href="http://nsidc.org/daac">http://nsidc.org/daac</a>	<ul style="list-style-type: none"> <li>GLAS/ICESat L2 Global Ocean Altimetry Data</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>Jason Sea Surface Height Anomaly Products (Along-Track and Along-Track Gridded)</li> <li>Jason Near Real Time Sea Surface Height Anomaly</li> <li>Jason Geophysical Data Record (GDR)</li> <li>TOPEX/POSEIDON Sea Surface Height Anomaly Products (Along-Track and Along-Track Gridded)</li> <li>TOPEX/POSEIDON Altimeter Merged Geophysical Data Record (MGDR) Generation B</li> <li>Altimeter Ocean Pathfinder Sea Surface Height Anomalies from the following missions: TOPEX/POSEIDON, GEOSAT ERM, GFO, ERS-1, ERS-2</li> <li>Monthly Steric Sea Level from Jason-1 and GRACE</li> <li>Dynamic Ocean Topography (DOT)</li> <li>Ocean Surface Currents - OSCAR</li> </ul>
<b>Sea Ice</b> See also the "Cryosphere Data Set Reference Sheet"	<b>ASF DAAC</b> <a href="http://www.asf.alaska.edu">http://www.asf.alaska.edu</a>	<ul style="list-style-type: none"> <li>SAR image data sets</li> <li>ERS-1 Ice Motion Vectors</li> <li>RGPS Ice Motion and Thickness</li> </ul>
	<b>LaRC DAAC</b> <a href="http://eosweb.larc.nasa.gov">http://eosweb.larc.nasa.gov</a>	<ul style="list-style-type: none"> <li>International Satellite Cloud Climatology Project (ISCCP) D1, D2, and ICESNOW data products</li> <li>Multi-angle Imaging SpectroRadiometer (MISR) Level 1B2 Ellipsoid Data</li> <li>First ISCCP Regional Experiment (FIRE) data sets</li> </ul>
	<b>NSIDC DAAC</b> <a href="http://nsidc.org/daac">http://nsidc.org/daac</a>	<ul style="list-style-type: none"> <li>Bootstrap Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I</li> <li>Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I Passive Microwave Data</li> <li>DMSP SSM/I Daily and Monthly Polar Gridded Sea Ice Concentrations</li> <li>Near Real-Time SSM/I EASE-Grid Daily Global Ice Concentration and Snow Extent</li> <li>Near Real-Time DMSP SSM/I Daily Polar Gridded Sea Ice Concentrations</li> <li>Sea Ice Trends and Climatologies from SMMR and SSM/I</li> <li>AVHRR 1-km Level 1b Polar Data Set and AVHRR Polar Pathfinder Twice-Daily 1.25, 5, and 25 km EASE-Grid Composites</li> <li>GLAS/ICESat L2 Sea Ice Altimetry Data</li> <li>AMSR-E/Aqua Daily L3 6.25, 12.5, and 25 km Sea Ice Products [Brightness Temperature (all resolutions), Sea Ice Concentration (12.5 and 25 km), Snow Depth (12.5 km), and Sea Ice Temperature (25 km)]</li> <li>Polar Pathfinder Daily 25 km EASE-Grid Sea Ice Motion Vectors</li> <li>Snow Melt Onset Over Arctic Sea Ice from SMMR and SSM/I Brightness Temperatures</li> <li>MODIS Sea Ice Extent Daily L3 Global 1km EASE-Grid Products</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>BYU Daily Browse Images of QuikSCAT Sigma-0 Measurements</li> <li>BYU Daily Browse Images of SeaWinds Sigma-0 Measurements</li> <li>BYU High Resolution Images of Seasat Sigma-0 Measurements</li> <li>BYU High Resolution Images of ERS Sigma-0 Measurements</li> </ul>

<b>Atmospheric Moisture (Oceanic Only)</b> See also the "Atmosphere Data Set Reference Sheet"	<b>GHRC</b> <a href="http://ghrc.msfc.nasa.gov">http://ghrc.msfc.nasa.gov</a>	<ul style="list-style-type: none"> <li>MSFC SSM/I Swath and Daily Gridded Integrated Water Vapor Products from DMSP F13 and F14</li> <li>MSFC SSM/I Swath and Daily Gridded Cloud Liquid Water Products from DMSP F13, and F14</li> </ul>
	<b>LaRC DAAC</b> <a href="http://eosweb.larc.nasa.gov">http://eosweb.larc.nasa.gov</a>	<ul style="list-style-type: none"> <li>First ISCCP Regional Experiment (FIRE) data sets</li> <li>Chesapeake Lighthouse and Aircraft Measurements for Satellites (CLAMS) (CLAMS_CERES_CHELIGHT_SONDE)</li> <li>NASA Water Vapor Project (NVAP) data sets</li> </ul>
	<b>NSIDC DAAC</b> <a href="http://nsidc.org/daac">http://nsidc.org/daac</a>	<ul style="list-style-type: none"> <li>AMSR-E/Aqua Daily, Weekly, and Monthly L3 Global Ascending/Descending .25x.25 deg Ocean Grids</li> <li>AMSR-E/Aqua L2B Global Swath Ocean Products derived from Wentz Algorithm</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>SSM/I Pathfinder Atmospheric Moisture Level 2 and Level 3</li> <li>Nimbus-7 SMMR Global 60km Gridded Ocean Parameters</li> </ul>
<b>Multi-Parameter Data Collections</b>	<b>GHRC</b> <a href="http://ghrc.msfc.nasa.gov">http://ghrc.msfc.nasa.gov</a>	<ul style="list-style-type: none"> <li>TRMM Microwave Imager (TMI) Wentz Ocean Products (Cloud liquid water, atmospheric water vapor, precipitation rate, wind speeds, and SSTs)</li> <li>Advanced Microwave Sounding Unit-A (AMSU-A) Swath from NOAA-15, NOAA-16, NOAA-17</li> </ul>
	<b>LaRC DAAC</b> <a href="http://eosweb.larc.nasa.gov">http://eosweb.larc.nasa.gov</a>	<ul style="list-style-type: none"> <li>First ISCCP Regional Experiment (FIRE) data sets</li> <li>CLAMS data sets</li> <li>Global Tropospheric Experiment (GTE) data sets</li> </ul>
	<b>NSIDC DAAC</b> <a href="http://nsidc.org/daac">http://nsidc.org/daac</a>	<ul style="list-style-type: none"> <li>AMSR-E/Aqua Daily, Weekly, and Monthly L3 Global Ascending/Descending .25x.25 deg Ocean Grids</li> <li>AMSR-E/Aqua L2B Global Swath Ocean Products derived from Wentz Algorithm</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>GEOSAT Altimeter Geophysical Parameters Collocated with NDBC Buoy Data</li> <li>Monthly Mean Global Surface Ocean Variables</li> <li>Sea Surface Temperature and Height, Global 0.5 and 1.0 degree grids (JPL, WOCE v3)</li> </ul>
<b>Gravity</b>	<b>CDDIS</b> <a href="http://cddis.gsfc.nasa.gov">http://cddis.gsfc.nasa.gov</a>	<ul style="list-style-type: none"> <li>Ground Network/Satellite Measurements: Daily, hourly, and sub-hourly code and phase observations from GNSS ground network; Daily and hourly files of round trip time of flight from satellite laser ranging (SLR) ground network; Time-tagged range-rate measurements from DORIS ground network</li> <li>Station positions and velocities from GNSS, SLR, VLBI and DORIS ground networks</li> </ul>
	<b>PO.DAAC</b> <a href="http://podaac.jpl.nasa.gov">http://podaac.jpl.nasa.gov</a>	<ul style="list-style-type: none"> <li>GRACE Level 2 Monthly Gravity Field Estimates</li> </ul>

**ASF DAAC** Alaska Satellite Facility DAAC

**CDDIS** Crustal Dynamics Data Information System

**GES DISC** Goddard Space Flight Center (GSFC) Earth Sciences Data and Information Services Center (DISC)

**LaRC DAAC** Langley Research Center DAAC

**LP DAAC** Land Processes DAAC

**NSIDC DAAC** National Snow and Ice Data Center DAAC

**OceanColor Web** Ocean Biology Processing Group

**PO.DAAC** Physical Oceanography DAAC

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