

COASTWATCH REGIONAL NODES

The CoastWatch Mission: to provide and ensure timely access to near real-time satellite data to protect, restore, and manage U.S. coastal ocean resources, and understand climate variability and change to further enhance society's quality of life.

Central Operations provides sea surface temperature, ocean color, and ocean surface winds. In addition, each of the Nodes provide specialized products to the users in that region.

ALASKA — The Alaska Node provides AVHRR data for 15 regions of Alaska, as well as ocean surface winds and data for the weather forecasts for six different weather zones. In addition to its standard ocean data, images of the region's many volcano plumes, which pose hazards to Alaska aircraft, are available.

<http://cwatch.arh.noaa.gov>

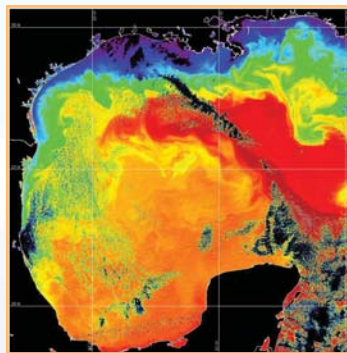
EAST COAST — The East Coast Node, located at NOAA's Chesapeake Bay Office (NCBO) in Annapolis, MD, provides ocean satellite data for seven regions from Maine to Florida. They work closely with



NCBO and the federal Chesapeake Bay Program to provide specific products for various applications.

<http://coastwatch.chesapeakebay.noaa.gov>

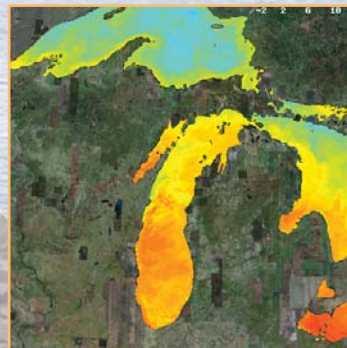
CARIBBEAN/GULF OF MEXICO — The Ca-



ribbean/Gulf of Mexico Node provides an extensive catalog of environmental datasets for the Caribbean and Gulf region. These include CO2 flux maps,

vector winds, tropical cyclone heat potential, sea surface height anomalies, and geostrophic currents. For easy viewing, a new GIS interactive tool is now available online. <http://cwcaribbean.aoml.noaa.gov/>

GREAT LAKES — The Great Lakes Node, located

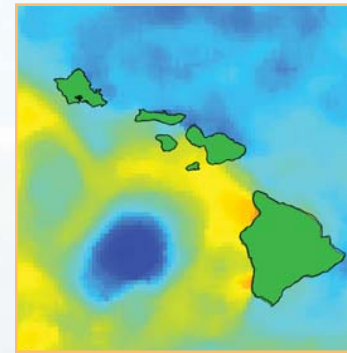


in Ann Arbor, MI, provides enhanced digital satellite images and derived products for the lakes, including surface temperature, visible and near-infrared re-

fectance, and true color images. The Great Lakes Surface Environmental Analysis, a cloud-free temperature composite chart, is enhanced with ice concentration data from the National Ice Center during the winter.

<http://coastwatch.glerl.noaa.gov>

CENTRAL PACIFIC, OCEANWATCH —



Based in Honolulu, HI, the Central Pacific Node maintains the operation of an AVHRR satellite receiving station, in addition to

processing and distributing numerous satellite remote sensing datasets. These include ocean color, altimetry, temperature, and surface winds for the Pacific Ocean, in addition to several regional products.

<http://oceanwatch.pifsc.noaa.gov>

WEST COAST — Headquartered in Pacific Grove, CA, the West Coast Node provides numerous satellite products including a special El Niño Watch that provides information on current El Niño conditions. Multiple satellite datasets are available using the custom browser, which creates maps or provides easy download access of near-real time oceanographic data.

<http://coastwatch.pfel.noaa.gov>

COASTWATCH

Coastal oceans play a key role in terms of the goods and services they provide, the diverse ecosystems they support, and their impact on human populations. Based on 2005 Census population estimates, the number of people in U.S. coastal counties was 155.2 million, or about 53% of the U.S. population. For all of these reasons, it is necessary to routinely monitor our ocean, coasts, and Great Lakes. This is made possible by data gathered daily from numerous environmental satellites orbiting the earth.

One of the programs that make these datasets available is CoastWatch. Administered by the National Oceanic and Atmospheric Administration (NOAA), CoastWatch processes ocean satellite data in support of NOAA's mission, so other agencies, scientists, and the general public can make better decisions to help protect the coastal environment.

CoastWatch processes several types of ocean data from various satellites, including NOAA's POES and GOES and NASA's Aqua, Jason-1, and QuikSCAT. The resulting images are displayed in near-real time, which means each image is approximately 2 to 4 hours old. The datasets include ocean surface temperatures, color, winds, and height, all of which help users in monitoring ocean 'weather' to understanding climate variability and impacts on human populations and ecosystems.



Download Free Satellite Imagery

<http://coastwatch.noaa.gov>

For more information on the different satellites used and examples of satellite imagery, visit the Central Operations or one of the Regional Nodes websites.

For more information on NOAA's satellite data and information:

NOAA Satellites & Information

www.nesdis.noaa.gov

NESDIS Office of Satellite Operations

<http://www.oso.noaa.gov/>

NESDIS Office of Satellite Data Processing and Distribution

<http://www.osdpd.noaa.gov/>

NOAA's Comprehensive Large Array-data Stewardship System

www.class.noaa.gov

NOAA Satellite Visualizations

<http://www.nnvl.noaa.gov/>

Center for Satellite Applications and Research (STAR)

<http://www.orbit.nesdis.noaa.gov/star/index.php>

NOAA CoastWatch
DoC/NOAA/NESDIS/STAR
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CoastWatch

NOAA's Source for Coastal Satellite Data

US Department of Commerce
National Oceanic and Atmospheric
Administration
National Environmental Satellite,
Data & Information Service

