



Ocean Climate Laboratory and World Data Center for Oceanography



The Ocean Climate Laboratory (OCL) and World Data Center for Oceanography (WDC) produce and distribute scientific global, integrated, comprehensive, quality-controlled profile-plankton databases such as the World Ocean Database (WOD) and World Ocean Atlas (WOA). The OCL and WDC also research and publish diagnostic studies based on these global databases.

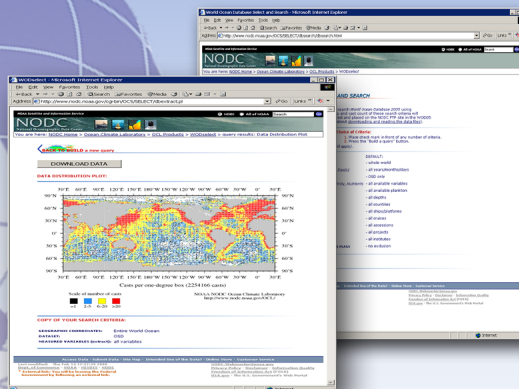
WOD05

... a heterogeneous ocean profile-plankton database available online and on DVD.



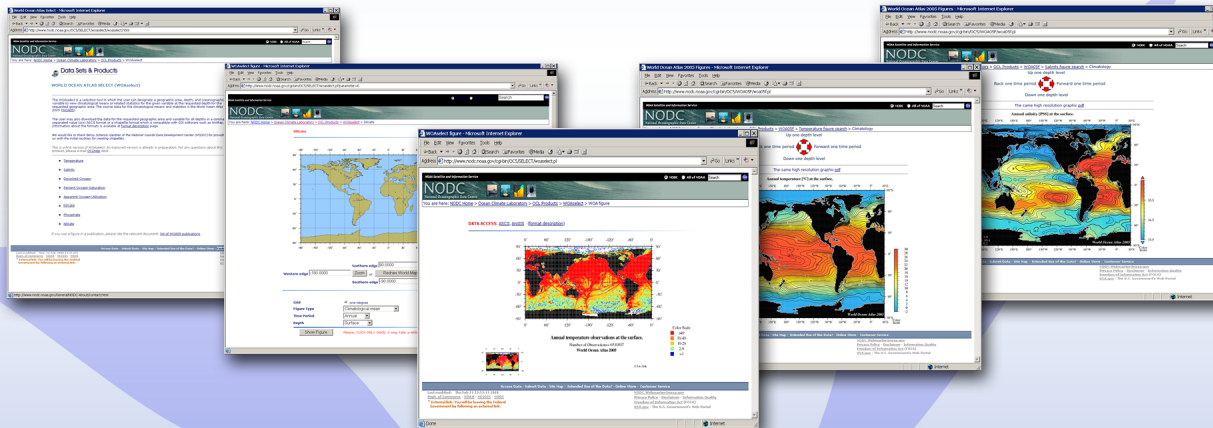
WODselect

... an online data retrieval system using World Ocean Database 2005.



WOselect

... visualize any climatological mean field, any depth, any geographic area.

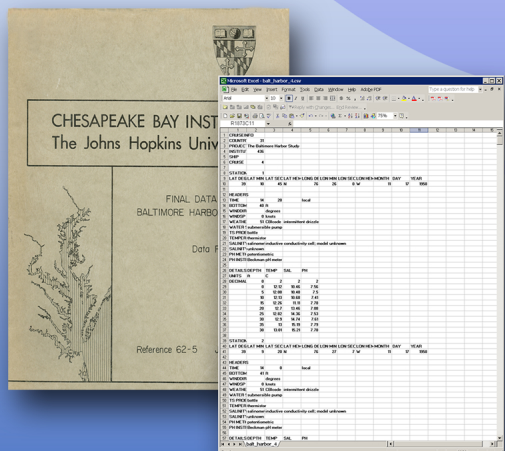


WOA and Figures

... a collection of images of objectively analyzed fields and statistics.

Global Oceanographic Data Archaeology and Rescue

... the process of rescuing data at risk of being lost to the scientific community.



International Atlases

... external science collaborations such as CLIVAR, NRL, Argo, and joint atlases with international investigators.



National Oceanographic Data Center Ocean Climate Laboratory World Data Center for Oceanography – Silver Spring

The products and publications were made possible by a grant from the National Oceanic and Atmospheric Administration Climate and Global Change Program which enabled the establishment of a research group, the Ocean Climate Laboratory (OCL) at the U.S. National Oceanographic Data Center (NODC). The World Data Center (WDC) for Oceanography – Silver Spring, is operated by the NODC, which provides support for all required scientific and technical operations. Data submitted to WDC that are amenable to processing and incorporation into data files at NODC become part of the NODC global database. Data collections and products are available at: www.nodc.noaa.gov/OC5.

WORLD OCEAN DATABASE 2005

The World Ocean Database 2005 (WOD05) is the largest digital collection of quality-controlled historical and modern ocean profile data (1772-2005) made available internationally without restrictions. Data and metadata from multiple instrument types and 25 variables including temperature, salinity, oxygen, nutrients, and other biochemical tracers are stored in WOD05. The data are derived from U.S. and international sources and are available online at:

www.nodc.noaa.gov/OC5/WOD05/pr_wod05.html

WORLD OCEAN DATABASE SELECT

The World Ocean Database Select (WODselect) is an online retrieval system which allows the user to search and download a subset of WOD data and associated metadata. WODselect is accessible at:

www.nodc.noaa.gov/OC5/SELECT/dbsearch/dbsearch.html.

WORLD OCEAN ATLAS 2005

The World Ocean Atlas 2005 (WOA05) is a set of gridded, objectively analyzed fields of eight key oceanographic variables: temperature, salinity, dissolved oxygen, apparent oxygen utilization, oxygen saturation, phosphate, silicate, and nitrate. These fields are available at standard depth levels for annual, seasonal, and monthly compositing time periods based on quality-controlled WOD05 data. WOA05 includes gridded fields on both 1° and 5° grids as well as maps that illustrate the climatological large-scale distribution and statistics of these variables. WOA05 is available at:

www.nodc.noaa.gov/OC5/WOA05/pr_woa05.html

WORLD OCEAN ATLAS SELECT

The World Ocean Atlas Select (WOAselect) is an online retrieval system which allows the user to view and download a subset of WOA data in ASCII and GIS compatible formats. WOAselect is accessible at:

www.nodc.noaa.gov/OC5/SELECT/woaselect/woaselect.html

GLOBAL OCEANOGRAPHIC DATA ARCHAEOLOGY AND RESCUE

The Global Oceanographic Data Archaeology and Rescue (GODAR) project initiated in 1993 aims at rescuing hydrographic data that otherwise would be lost. The GODAR project activity resulted in several million oceanographic stations rescued and incorporated into the World Ocean Database, leading to a sharp increase of the total volume of quality-controlled data available to the global community.

PRODUCTS AND PUBLICATIONS

A variety of products and publications have been prepared in collaboration with international partners. They present data analyses of select regions of the world and provide metadata on historical observations and investigations.

Products and publications are available online at:

www.nodc.noaa.gov/OC5/indprod.html and

www.nodc.noaa.gov/OC5/indpub.html.

Contact: Sydney.Levitus@noaa.gov

NODC Customer Service: NOAA.Services@noaa.gov

National Oceanographic Data Center

1315 East West Highway, SSMC III

Silver Spring, MD 20910 - USA