

# W.A.V.E.S – Web Accessible Visualization and Extraction System for GLODAPv2 Database

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The Global Ocean Data Analysis Project (GLODAP) is a cooperative effort of investigators funded for ocean synthesis and modeling projects by the U.S. National Oceanic and Atmospheric Administration (NOAA), Department of Energy (DOE), and National Science Foundation (NSF).

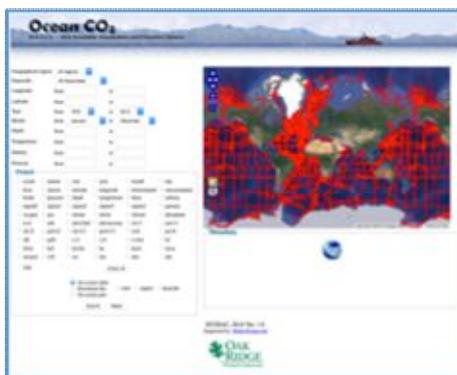


Fig. 1: GLODAPv2 WAVES Interface

Cruises conducted as part of the WOCE, JGOFS, and NOAA Ocean-Atmosphere Carbon Exchange Study (OACES) over the decade of the 1990s generated oceanographic data of unparalleled quality and quantity. GLODAPv2 is a uniformly calibrated open-ocean data product containing inorganic carbon and carbon-relevant variables. This new product includes data from approximately one million individual seawater samples collected from over 700 cruises during the period 1972-2013. Extensive quality control and subsequent calibration were carried out for salinity, oxygen, nutrient, carbon dioxide, total alkalinity, pH, and chlorofluorocarbon data. The Carbon Dioxide Information and Analysis Center (CDIAC), serving as the primary DOE disseminator for climate data and information, developed database and web accessible systems that permit users worldwide to query and retrieve data from the GLODAPv2 collection. This presentation will showcase this new system, discuss technologies used to build the GLODAPv2 resource, and describe integration with a metadata search engine provided by CDIAC as well.

## Perform a search of the database by:

1. Geographical region
2. Expocode
3. Coordinates
4. Date
5. Depth, Temperature, Salinity, Pressure
6. Measurement parameter(s)

## Output in the following formats:

- On-screen table
- Downloadable file (CSV, TabSV, NetCDF)
- On-screen plot