



In-situ Data Services from NOAA PMEL EPIC Group

Donald W. Denbo, Eugene Burger, John Osborne, Joe Sirott, Nancy N. Soreide, Mick Spillane, Nazila Merati, and Willa H. Zhu

EPIC – Oceanic and Atmospheric station data management. Web access to data selection/graphics. Analysis, graphics with EPIC, Matlab, IDL, Ferret, Excel, etc.

EPIC tools for the Web
General and customized web access to in-situ or gridded data

- EPIC Web Toolkit
 - Interface design
 - Backend graphics
 - Map data selector
- Example applications
 - EPIC Web Browser (general purpose)
 - TAO (El Nino buoys)
 - Unaami (Arctic time series)
 - OSCAR (Satellite ocean currents)
 - Multibeam data (hydrography)
 - <http://www.epic.noaa.gov>

JOA (Java Ocean Atlas) – Intensive viewing and intercomparison of oceanographic data collections. Initially for in-situ ocean profiles – expanded for XBT, Argo float data, shipboard ADCP, time series from moored buoys, gridded data products and model results.

JOA interface features:

- Data Window
- Customizable Ocean Property Plots
- Map Plots
- Waterfall Plots
- Contour Plots

NcBrowse – Easy interactive desktop investigation of data and metadata for netCDF and OPeNDAP datasets. Interactive 2-D and 3-D graphics.

ncBrowse
A Graphical netCDF and OPeNDAP File Browser

ncBrowse is a Java application that provides flexible, interactive graphical displays of data and attributes from netCDF files following a wide range of conventions.

OceanShare – Science collaborators at different geographic locations share and discuss local and remote data. Session logs record discussions and decisions. Based on OPeNDAP data access.

FOCI Alaska CTD – Climate Data Portal

CDP – Client/server access to local and remote collections of in-situ and gridded data. **OPeNDAP** in-situ data server

ArcExplorer Web – Microsoft Internet Explorer

Ocean Observing System data into ESRI Geography Network

NVODS LAS data into GIS

EPIC in-situ data into GIS

GIS – In-situ and model data readily integrated into the GIS environment. TAO El Nino buoy data is the first Ocean Observing System to be included in the ESRI Geography Network.

3D Visualization – Toolkits for 3D stereographic and virtual reality presentations of data on the desktop, Web, large-format ImmersaDesk, and portable GeoWall.

- Scientist inside the CAVE
- Hurricane Floyd, GFDL model simulation
- Pacific Decadal Oscillation, PMEL
- El Nino visualization, TAO buoy data
- Indonesian throughflow, University of Washington model results
- Physical-biological model of fish in Shelikof Strait

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Contacts:
Web: <http://www.epic.noaa.gov> Email: epic@noaa.gov