**Data Management Plan**

**Mooring Data, NOAA/PMEL-EcoFOCI**

**[PSullivan 4/25/2013,** [**https://dmp.cdlib.org/pages/my\_plans**](https://dmp.cdlib.org/pages/my_plans) **(UW)]**

**1. General Description of Data to be Managed**

 **Dataset Name:** Oceanographic time series data from PMEL, EcoFOCI moored instruments.

 **Keywords:** mooring, time series, NetCDF, PMEL-EPIC NetCDF Conventions, Alaska, currents, temperature, salinity, fluorescence, chlorophyll, oxygen, Gulf of Alaska, Bering Sea, Aleutian Islands, Chukchi Sea, oceanographic data, ecosystem.

 **Data Summary:** Oceanographic time-series data have been collected via moored arrays in Alaskan waters.  These data sets have been collected over the life of the EcoFOCI project, and are on-going.

 **Temporal coverage:** 1984 to present (2013).

 **Geographic coverage:** Latitude/longitude range: 51°N to 73°N, and 17°E to134°W.  Mooring data originate in Alaskan Waters including the Gulf of Alaska, Southeast Alaska, Kodiak Island area, Aleutian Islands, Bering Sea, and Chukchi Sea.

 **Data types:** water temperature, conductivity, pressure, salinity, chlorophyll fluorescence, current vectors, current velocity, turbidity, nutrients, air temperature, barometric pressure, PAR (shortwave radiation), wind speed, wind vectors, relative humidity, ice thickness, oxygen.

 **Method of Data Capture/Collection:** Data are collected from instruments on moored arrays at various depths in the water column.  A variety of instruments have been used, each recording data for the duration of the mooring (2-12 months).  Data are dumped to sea-going computers upon recover of moorings, and transferred to in-office processing computers (linux).

 **Data storage:** Data are stored in NetCDF files (PMEL-EPIC standard), one per instrument.  Files are grouped per year and per mooring location on an internal archive raid array. Data are stored on a PMEL server for public access.

 **Volume of stored data:** 2 GB

 **Occurrence of PIN (Pers.ident Info) within data:** NONE

**2. Points of Contact**

Project and Data point-of-contact:  Dr. Phyllis J. Stabeno
Overall Point-of-contact for data:  Peggy Sullivan & Dave Kachel
Data Quality:  Dave Kachel
Data questions (collection, documentation, storage, metadata):  Peggy Sullivan

**3. Data Stewardship**

Data are processed according to known scientific protocols and instrument manufacturer specifications.  Data from each instrument is converted to PMEL-EPIC standard NetCDF format.  Data are quality checked.  Calculated variables are added to the data.

**4. Data Documentation**

Time-series data NetCDF files bundle selected metadata within the files.

Metadata files have been created for NPRB BEST-BSIERP projects in the form of XML and HTML documents created using Metavist software tool and and  NBII (National Biological Information Infrastructure) profile (FGDC-STD-001-1998).

**5. Data Sharing**

Data have been available to the public via the NOAA/PMEL/EPIC web server.  Time series data are sent to NODC.  Portions of the data are available through data sites related to various project funding (NPRB/NSF BEST-BSIERP, AOOS).

Users of data are requested to credit NOAA/PMEL/EcoFOCI project and Principal Investigators in their publications and presentations, and to provide published materials.

**6. Initial Data Storage and Protection**

Data are placed on an internal server for processing. A secondary archive exists on a separate server where data undergo more quality control, and are distributed to the lab data server.

Processing, updates and modifications are done by one designated expert, with limited access by  a few closely-related project personnel.  Data reside on internal linux computers, and are accessed via password-protected computer systems that are not accessible to the outside.

**7. Long-Term Archiving and Preservation**

Data will be stored and archived at NODC.