

DATA COLLECTOR/SUBMITTER CONTACT INFORMATION:

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TITLE:

CAB887 CTD Data - NOAA ECOHAB NA04NOS4780273: "The relationship between Paralytic Shellfish toxins and Alexandrium cysts in Puget Sound, WA".

ABSTRACT & PURPOSE:

Raw, processed and calibration electronic data files from 7 stations (Seabird 911 plus CTD casts - 1/station) conducted during cruise aboard the R/V Clifford A. Barnes (CAB887) in Puget Sound, WA from 16-19 October 2006 for NOAA ECOHAB funded project, NOAA ECOHAB NA04NOS4780273: "The relationship between Paralytic Shellfish toxins and Alexandrium cysts in Puget Sound, WA". This cruise focused primarily on Quartermaster Harbor in Puget Sound. These data were collected as part of a project to determine the distribution of Alexandrium catenella cysts in the sediments of Puget Sound. The CTD data was used to characterize the water column properties at the time of sampling.

INSTRUMENT CONFIGURATION:

Sea-Bird SBE911 plus
Fitted with:
Sea-Bird 43 dissolved oxygen sensor
WetStar fluorometerWetlab ECO-AFL
Wetstar transmissometerChelsea/Seatech/Wetlab CStar
Licor PAR sensor

DATA FILES:

*.dat are the raw Seabird CTD data files by station
*.CON are the Seabird CTD configuration files with instrument calibrations by station
*.cnv are the processed Seabird CTD data files by station
README CAB887_data_description.doc – this file
2006_cab887_datasetup.xls – example *.cnv file header and data
EDDF2ECOHABCAB887.pdf – NODC metadata form

CALIBRATION INFORMATION:

Latest CTD calibration information is in *.CON files for each station. Data on instrument calibration is maintained by the U. of Washington Marine Technical Services group as part of support for operation of UNOLS vessel scientific equipment on R/V Clifford A. Barnes.

CAB887 DATA DESCRIPTION:

*.cnv file sample format is contained in file:
2006_cab887_datasetup.xls

Each *.cnv file contains data processed according to the Sea-Bird SBEDDataProc guidelines for binning, filtering, and deriving data. Information specific to the steps used for each file are included in the header of each file.

NOTE: PAR is in raw data files (*.dat) but not processed data files (*.cnv).

Header is first 101 lines

Line 9 - Date and local time

Line 10 - Latitude

Line 11 - Longitude

Line 12 – UTC time

Line 13 – Ship

Line 14 - Cruise

Line 15 - Station

Line 16 – Location

Data format is space delimited in 1 db bins.

P (db), T (degree C(ITS-90)), C (mS/cm), oxygen (voltage), altimeter (m), Fluorometer (mg/m³), Transmissometer (%), Julian Day, oxygen (ml/l), oxygen (mg/l), oxygen (% sat.), # in bin, salinity (PSU), potential temperature (degree C(ITS-90)), density (sigma-t, kg/m³), density (sigma- theta, kg/m³), depth (m), flag