

Dataset: DeZoZoo CTD Data

Project(s): Hypoxia in Marine Ecosystems: Implications for Neritic Copepods (DeZoZoo)

Abstract: These data present the processed CTD data from the DeZoZoo project taken from the mesohaline portion of Chesapeake Bay from 37.5 - 38.5 degrees N and from 76 - 76.5 degrees West. For a complete list of measurements, refer to the supplemental document 'Field_names.pdf', and a full dataset description is included in the supplemental file 'Dataset_description.pdf'. The most current version of this dataset is available at: <http://www.bco-dmo.org/dataset/561249>

Description: Processed CTD data from all six cruises of the DeZoZoo project

These are the processed CTD data from the DeZoZoo project taken from the mesohaline portion of Chesapeake Bay from 37.5 - 38.5 degrees N and from 76 - 76.5 degrees West.

Acquisition Data were collected using the shipboard SeaBird 9plus CTD fitted with a variety of

Description: sensors. Sensors are listed in the table below:

CTD was lowered to within 2 m of the bottom slowly, with bottom depth determined by CTD mounted altimeter. If samples were collected on a given CTD cast, they were collected as the CTD was raised back to the surface using the attached Rosette fitted with 10L Niskin Bottles.

Sensor	Serial Number
SBE 9plus pressure	0445
SBE Temperature 1	2574
SBE Temperature 2	2631
SBE Conductivity 1	2208
SBE Conductivity 2	2209
WetLabs FLNTU	091
SBE 43 Oxygen	0539
C-Star Transmissometer	n/a

Processing Data were processed according to suggested post-processing routines outlined in

Description: the SeaBird Data Processing manual. Headers for the data processing routines are included in the .cnv files of post-processed data. All data were batch processed by cruise using the same routines and averaged in 0.5m bins.

Deployment Information

Deployment description for R/V Hugh R. Sharp HRS100524JP

Cruise in Main Channel of Chesapeake Bay

Deployment description for R/V Hugh R. Sharp HRS100819JP

Cruise in main channel of Chesapeake Bay to collect zooplankton samples.

Deployment description for R/V Hugh R. Sharp HRS100920JP

One of a series of cruises in the main channel of the Chesapeake Bay to collect gelatinous zooplankton.

Deployment description for R/V Hugh R. Sharp HRS110525JP

One of six week-long cruises in the main channel of Chesapeake Bay to collect gelatinous zooplankton.

Deployment description for R/V Hugh R. Sharp HRS110719JP

One of six week-long cruises in the main channel of the Chesapeake Bay to collect gelatinous zooplankton

Deployment description for R/V Hugh R. Sharp HRS110922JP

One of 6 week-long cruises in the main channel of the Chesapeake Bay, collecting gelatinous zooplankton.

Instrument Information

Instrument	CTD
Description	Standard CTD911+ with fluorometer and oxygen sensors working.
Generic Instrument Name	CTD Sea-Bird 911

Generic Instrument Description	The Sea-Bird SBE 911 is a type of CTD instrument package. The SBE 911 includes the SBE 9 Underwater Unit and the SBE 11 Deck Unit (for real-time readout using conductive wire) for deployment from a vessel. The combination of the SBE 9 and SBE 11 is called a SBE 911. The SBE 9 uses Sea-Bird's standard modular temperature and conductivity sensors (SBE 3 and SBE 4). The SBE 9 CTD can be configured with auxiliary sensors to measure other parameters including dissolved oxygen, pH, turbidity, fluorescence, light (PAR), light transmission, etc.). More information from Sea-Bird Electronics.
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Instrument	Fluorometer
Description	WET Labs ECO-AFL/FL
Generic Instrument Name	Fluorometer
Generic Instrument Description	A fluorometer or fluorimeter is a device used to measure parameters of fluorescence: its intensity and wavelength distribution of emission spectrum after excitation by a certain spectrum of light. The instrument is designed to measure the amount of stimulated electromagnetic radiation produced by pulses of electromagnetic radiation emitted into a water sample or in situ. This instrument designation is used when specific make and model are not known.

Instrument	Oxygen sensor
Description	SBE 43 Oxygen sensor
Generic Instrument Name	Sea-Bird SBE 43 Dissolved Oxygen Sensor
Generic Instrument Description	The Sea-Bird SBE 43 dissolved oxygen sensor is a redesign of the Clark polarographic membrane type of dissolved oxygen sensors. more information from Sea-Bird Electronics