Data from CTD casts on the R/V Thuwal cruise in the Red Sea during January 2014 (Red Sea Krill project)

Website: https://www.bco-dmo.org/dataset/620083
Version: 2015-10-27

Project
» Red Sea Krill (Red Sea Krill)

Contributors	Affiliation	Role
Wiebe, Peter H.	Woods Hole Oceanographic Institution (WHOI)	Principal Investigator
Copley, Nancy	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

Table of Contents

- Dataset Description
- Data Files
- Parameters
- Instruments
- Deployments
- Project Information
- Funding

Dataset Description

A CTD cast at the ECDEEP station measured temperature, salinity, chlorophyll fluorescence, optical back scattering, oxygen, and Color Dissolved Organic Matter (CDOM).

[table of contents | back to top]

Data Files

File
ctd_cast_Thuwal.csv (Comma Separated Values (.csv), 1.09 MB) MD5:a2ff4f63f73443d311d660fbc5876f13 Primary data file for dataset ID 620083

[table of contents | back to top]

Parameters

Parameter	Description	Units
date_local	local date	yyyy-mm-dd
time_local	local time	HH:MM:SS
yrday_local	local year-day	unitless
ISO_DateTime_Local	local time with ISO format	YYYY-MM-DDTHH:MM:SS[.xx]
lat	latitude; north is positive	decimal degrees
lon	longitude; east is positive	decimal degrees
press	pressure	decibars
temp	temperature	oC
cond	conductivity	Siemens/meter
sal	salinity	PSU
O2_sat_pcnt	percent saturation of oxygen	percent
O2_mg_L	oxygen concentration (ppm)	milligrams/liter
pH	pH	unitless
chl_a	chlorophyll fluorescence	units?
turbidity	optical scattering	FTU
CDOM	Colored dissolved organic matter: The optically measurable component of the dissolved organic matter in water	unitless?mg/m^3 ?
alt	altimetry	meters
O2_umol_L	oxygen concentration: O2mg/L*0.7*44.661	micromoles/liter

[table of contents | back to top]

Instruments

Dataset-specific Instrument Name	
Generic Instrument Name	CTD - profiler
Dataset-specific Description	Idronuat Ocean Seven 316Plus CTD
Generic Instrument Description	The Conductivity, Temperature, Depth (CTD) unit is an integrated instrument package designed to measure the conductivity, temperature, and pressure (depth) of the water column. The instrument is lowered via cable through the water column. It permits scientists to observe the physical properties in real-time via a conducting cable, which is typically connected to a CTD to a deck unit and computer on a ship. The CTD is often configured with additional optional sensors including fluorometers, transmissometers and/or radiometers. It is often combined with a Rosette of water sampling bottles (e.g. Niskin, GO-FLO) for collecting discrete water samples during the cast. This term applies to profiling CTDs. For fixed CTDs, see https://www.bco-dmo.org/instrument/869934.

[table of contents | back to top]

Deployments

Thuwal-2014-01

Website	https://www.bco-dmo.org/deployment/620087
Platform	R/V Thuwal
Start Date	2014-01-07
End Date	2015-01-12
Description	Three day trips to sample krill at ECDEEP station near Economic City, Saudi Arabia, north of KAUST.

[table of contents | back to top]

Project Information

Red Sea Krill (Red Sea Krill)

Coverage: Red Sea

The krill population at station ECDEEP was characterized via MOCNESS sampling and CTD casts.

[table of contents | back to top]

Funding

Funding Source	Award
King Abdullah University of Science and Technology (KAUST)	KAUST-Kaartvedt-2014

[table of contents | back to top]