Event log for RV/Thuwal-2014-01 in the Red Sea near Economic City (ECDEEP), Saudi Arabia, January 2014

Website: https://www.bco-dmo.org/dataset/642886
Data Type: Cruise Results
Version:
Version Date: 2016-04-22

Project
» Red Sea Krill (Red Sea Krill)

Contributors	Affiliation	Role
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Coverage

Spatial Extent: **N**:22.52993 **E**:39.1002 **S**:22.30505 **W**:39.016912
Temporal Extent: 2014-01-07 - 2014-01-13

Methods & Sampling

Three day trips were made aboard the R/V Thuwal to a location referred to as the Economic City Deep or ECDEEP: a ~700 m deep basin located north of KAUST at 22.5o N, 39.03o E). Zooplankton were sampled using both a 1/4-m MOCNESS (Multiple Opening/Closing Net and Environmental Sensing System; Wiebe et al., 1985) with 200 µm mesh nets for 4 tows and a WP3 plankton tow for one tow.

Field sampling: The MOCNESS was obliquely towed four times from the stern A-frame using 11.43 mm conducting cable to 600 m depth with a ship speed nominally of 2 kts (Fig. 2; Table 1). Two MOCNESS tows were taken during daytime, one each on 7 and 8 January 2014, and two night tows were taken on 12 January 2014. The first day tow (m-25-001) was equipped with 5 nets that sampled 600-400, 400-200, 200-100, and 100-0 m. The second day tow (m-25-002) and the two night tows (m-25-003, m-25-004) each had six nets that sampled 600-400, 400-200, 200-100, 100-50, and 50-0 m. The first tow was done without having GPS data input to the MOCNESS acquisition program, so positions from the bridge were obtained for the tow start and end, and at each opening of a net. GPS positions were logged for the other three tows. The MOCNESS system was equipped with the standard SeaBird temperature and conductivity probes. The volume of water filtered by each net was based on the net frame angle and flowmeter counts using equation 10b in Wiebe et al., 1985.

Data Processing Description

BCO-DMO Processing:

- added conventional header with dataset name, PI name, version date
- renamed parameters to BCO-DMO standard
- added columns: cruise_id, year, and ISO_DateTime_Local
- converted lat and lon from degree minutes to decimal degrees

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Data Files

File
eventlog.csv (Comma Separated Values (.csv), 2.25 KB) MD5:4dc475d8092e6937b808c04011f28c65 Primary data file for dataset ID 642886

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Parameters

Parameter	Description	Units
cruise_id	cruise identification	unitless
year	year	yyyy
event	event number	unitless
inst	instrument	unitless
cast	cast number	unitless
se_flag	start/end flag	unitless
sta	station	unitless
mon_local	month; local time	mm
day_local	day; local time	dd
time_local	time; local time	HHMM
ISO_DateTime_Local	Date/Time (Local) ISO formatted based on ISO 8601:2004	YYYY-MM-DDTHH:MM:SS
mon_utc	UTC month	mm

day_utc	UTC day	dd
time_utc	UTC time	HHMM
lat	latitude; north is positive	decimal degrees
lon	longitude; east is positive	decimal degrees
depth_max	maximum sampling depth	meters
depth_min	minimum sampling depth	meters
si	scientific investigator's name	unitless
comment	comments	unitless

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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.

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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.

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Funding

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

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