

Event log for cruise FK003 on R/V Falkor in the North Atlantic high latitudes in July 2012 (Transatlantic VPR Survey project)

Website: <https://www.bco-dmo.org/dataset/3916>

Version: 2013-04-17

Project

» [RAPID: High-resolution sampling of plankton taxa, marine snow, and environmental variables across the north Atlantic subpolar gyre](#) (Transatlantic VPR Survey)

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Dataset Description

Event log for the FK003 cruise showing the hauls, tows, net, and casts for the VPRs, net, and CTDs.

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Data Files

File
eventlog.csv (Comma Separated Values (.csv), 14.06 KB) MD5:ca4d6998fa74efb22c6469d2754f3a49
Primary data file for dataset ID 3916

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Parameters

Parameter	Description	Units
year	year, e.g. 1995.	
platform	ship, mooring, fixed location name	
eventno	event or sampling operation number	
Instr	instrument used to collect data, see: instrument list	
Cast_Haul_Tow	Cast number, haul number or tow number depending on the instrument used. [DMO: The 'standard name' "cast" was chosen because it is the most general and can apply to a net, VPR, and CTD.]	
day	day of month	
month	month of year	
time	time of day, using 2400 clock format	
se_flag	sampling operation start (s) or end (e) flag	
lat	latitude, negative = South	decimal degrees
lon	longitude, negative = West	decimal degrees
depth_w	depth of water	meters
depth	depth of sample	meters
investigator	scientific investigator's name	
comment	free text comments	
cruiseid	Cruise identification	
ISO_Date_Time_UTC	ISO formatted date and time	

Deployments

FK003

Website	https://www.bco-dmo.org/deployment/59026
Platform	R/V Falkor
Start Date	2012-07-02
End Date	2012-07-28
Description	The deployment crossed the North Atlantic at high latitude to conduct a high-resolution sampling transect of mesozooplankton, marine "snow" (biogenic aggregates), and environmental variables from the northwestern UK shelf to southern Greenland via a route south of Iceland, thence south across the Labrador Sea and the Grand Banks to the slope water south of Nova Scotia, Canada, to Woods Hole, MA. It was the transatlantic maiden voyage of the Schmidt Ocean Institute's (SOI) new research vessel, R/V Falkor.

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Project Information

RAPID: High-resolution sampling of plankton taxa, marine snow, and environmental variables across the north Atlantic subpolar gyre (Transatlantic VPR Survey)

This project used the opportunity of a ship crossing the North Atlantic at high latitude to conduct a high-resolution sampling transect of mesozooplankton, marine "snow" (biogenic aggregates), and environmental variables from the northwestern UK shelf to southern Greenland via a route south of Iceland, thence south across the Labrador Sea and the Grand Banks to the slope water south of Nova Scotia, Canada. Sampling was done with the fast-tow Video Plankton Recorder II (VPR II). The VPR enables non-destructive sampling of fragile plankton in situ, and through rapid towed deployments (continuous raising and lowering while under way), it provides high vertical (top 150 m) and horizontal (1km towed spacing) resolution of robust as well as fragile plankton and aggregates and numerous environmental variables. The VPR II had been deployed in several locations around the world, but, until this cruise, there was no comparable data set for the far North Atlantic, an area of intense ecological interest. This opportunity arose from the transatlantic maiden voyage of the Schmidt Ocean Institute's (SOI) new research vessel, R/V *Falkor*, from the UK to the Woods Hole Oceanographic Institution from July 2-28, 2012. SOI funded ship costs for the transit, making the underway VPR survey a cost-effective way to sample. This project collected a major data set that can be quickly processed (acoustic, hydrographic, automated image analysis) and will be available to the community soon. Two Ph.D. students participated in the cruise, adding to their training in oceanography and high latitude marine science.

This project was funded by the National Science Foundation. In addition, the VPR II upgrade was supported by the Marine Science and Technology Foundation (WHOI #17073) and the Schmidt Ocean Institute provided the ship itself, the R/V *Falkor*.

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