

Nanoplankton from flow cytometry from R/V Endeavor cruise EN321 to the Gulf of Maine and Georges Bank in 1999 as part of the U.S. GLOBEC program (GB project)

Website: <https://www.bco-dmo.org/dataset/2423>

Data Type: Cruise Results

Version: 1

Version Date: 2006-09-13

Project

» [U.S. GLOBEC Georges Bank](#) (GB)

Program

» [U.S. GLOBal ocean ECosystems dynamics](#) (U.S. GLOBEC)

Contributors	Affiliation	Role
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Abstract

Nanoplankton from flow cytometry from R/V Endeavor cruise EN321 to the Gulf of Maine and Georges Bank in 1999 as part of the U.S. GLOBEC program.

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Coverage

Spatial Extent: N:42.1853 E:-66.5947 S:42.0958 W:-66.6032

Temporal Extent: 1999-03-31 - 1999-04-10

Dataset Description

Nanoplankton from Flow Cytometry

Submitted by:

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updated: Sept 13, 2006, gfh

Methods & Sampling

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Data Files

File
EN321fcmnano.csv (Comma Separated Values (.csv), 8.15 KB) MD5:a3ec9fcc9de7e36726f00ac7fd319135
Primary data file for dataset ID 2423

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Parameters

Parameter	Description	Units
cast	CTD cast from which the water samples were taken	
month_gmt	month of year (1-12), GMT time	
day_gmt	day of month (1-31), GMT time	
time_gmt	time of day (hhmm.mm), GMT time	hours and decimal minutes
lat	latitude, negative = South	decimal degrees
lon	longitude, negative = West	decimal degrees
depth	depth at which the water bottle was tripped	meters
cell_lt2um	number of cells less than 2 microns in diameter	cells per milliliter
cell_2to10um	number of cells in the range 2 to 10 microns in diameter	cells per milliliter
cell_gt10um	number of cells greater than 10 microns in diameter	cells per milliliter
crypto	number of Cryptophytes	cells per milliliter
cyano	number of Cyanobacteria	cells per milliliter
pico_euks	number of PicoEukaryotes	cells per milliliter

Instruments

Dataset-specific Instrument Name	SeabirdCTD
Generic Instrument Name	CTD Sea-Bird
Dataset-specific Description	Sea Bird CTD, no specific unit identified. See also other SeaBird instruments listed under CTD.
Generic Instrument Description	A Conductivity, Temperature, Depth (CTD) sensor package from SeaBird Electronics. This instrument designation is used when specific make and model are not known or when a more specific term is not available in the BCO-DMO vocabulary. Refer to the dataset-specific metadata for more information about the specific CTD used. More information from: http://www.seabird.com/

Deployments

EN321

Website	https://www.bco-dmo.org/deployment/57428
Platform	R/V Endeavor
Start Date	1999-03-28
End Date	1999-04-11
Description	process Methods & Sampling Nanoplankton from Flow Cytometry

Project Information

U.S. GLOBEC Georges Bank (GB)

Website: http://globec.whoi.edu/globec_program.html

Coverage: Georges Bank, Gulf of Maine, Northwest Atlantic Ocean

The U.S. GLOBEC [Georges Bank](#) Program is a large multi-disciplinary multi-year oceanographic effort. The proximate goal is to understand the population dynamics of key species on the Bank - Cod, [Haddock](#), and two species of zooplankton ([Calanus finmarchicus](#) and [Pseudocalanus](#)) - in terms of their coupling to the physical environment and in terms of their [predators and prey](#). The ultimate goal is to be able to predict changes in the distribution and abundance of these species as a result of changes in their physical and biotic environment as well as to anticipate how their populations might respond to climate change.

The effort is substantial, requiring broad-scale surveys of the entire Bank, and process studies which focus both on the links between the target species and their physical environment, and the determination of fundamental aspects of these species' life history (birth rates, growth rates, death rates, etc).

Equally important are the modelling efforts that are ongoing which seek to provide realistic predictions of the flow field and which utilize the life history information to produce an integrated view of the dynamics of the populations.

The U.S. GLOBEC Georges Bank [Executive Committee \(EXCO\)](#) provides program leadership and effective communication with the funding agencies.

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Program Information

U.S. GLOBAL ocean ECosystems dynamics (U.S. GLOBEC)

Website: <http://www.usglobec.org/>

Coverage: Global

U.S. GLOBEC (GLOBAL ocean ECosystems dynamics) is a research program organized by oceanographers and fisheries scientists to address the question of how global climate change may affect the abundance and production of animals in the sea.

The U.S. GLOBEC Program currently had major research efforts underway in the Georges Bank / Northwest Atlantic Region, and the Northeast Pacific (with components in the California Current and in the Coastal Gulf of Alaska). U.S. GLOBEC was a major contributor to International GLOBEC efforts in the Southern Ocean and Western Antarctic Peninsula (WAP).

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Funding

Funding Source	Award
National Science Foundation (NSF)	unknown GB NSF
National Oceanic and Atmospheric Administration (NOAA)	unknown GB NOAA

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