

Bacteria counts from flow cytometry on R/V Endeavor cruise EN325 in 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/2424>

Data Type: Cruise Results

Version: 1

Version Date: 2005-09-01

Project

» [U.S. GLOBEC Georges Bank](#) (GB)

Program

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

Contributors	Affiliation	Role
Sieracki, Michael E.	Bigelow Laboratory for Ocean Sciences	Principal Investigator
Allison, Dicky	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

Abstract

Bacteria counts from flow cytometry on R/V Endeavor cruise EN325 in 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:41.1023 E:-67.6178 S:41.008 W:-67.6892

Temporal Extent: 1999-06-15 - 1999-06-27

Dataset Description

Bacteria counts from Flow Cytometer

Submitted by:

Michael Sieracki
Bigelow Laboratory for Ocean Science
McKown Pt. Road
W. Boothbay Harbor, ME 04575
msieracki@bigelow.org

updated: Sept 1, 2005, gfh

Methods & Sampling

Bacteria counts from Flow Cytometer

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Data Files

File
EN325fcm bact.csv (Comma Separated Values (.csv), 1.37 KB) MD5:deb521d197473d2d6e24ae43617b7ae5
Primary data file for dataset ID 2424

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Parameters

Parameter	Description	Units
cast	CTD cast number 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
number	number of bacteria cells counted	cells per milliliter *10 ⁶

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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	Conductivity, Temperature, Depth (CTD) sensor package from SeaBird Electronics, no specific unit identified. This instrument designation is used when specific make and model are not known. See also other SeaBird instruments listed under CTD. More information from Sea-Bird Electronics.

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Deployments

EN325

Website	https://www.bco-dmo.org/deployment/57432
Platform	R/V Endeavor
Start Date	1999-06-13
End Date	1999-06-30
Description	process Methods & Sampling Bacteria counts from Flow Cytometer

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Project Information

U.S. GLOBEC Georges Bank (GB)

Website: http://globec.who.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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