

Bacteria counts 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/2422>

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 |
|--------------------------------------|---|------------------------|
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Abstract

Bacteria counts 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

EN321 Bacteria counts from Flow Cytometer

Submitted by:

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updated: Sept 1, 2005, gfh

Methods & Sampling

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Data Files

| File |
|--|
| EN321fcm bact.csv (Comma Separated Values (.csv), 5.85 KB) MD5:e5ae29c5e3aac368e3968a89753b65c8 Primary data file for dataset ID 2422 |

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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 |
| number | number of bacteria counted | cells per milliliter |

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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

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 EN321 Bacteria counts from Flow Cytometer |

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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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