

Chlorophyll data from R/V Endeavor cruises EN321 and EN325 to Georges Bank in 1999 as part of the U.S. GLOBEC program (GB project)

Website: <https://www.bco-dmo.org/dataset/2417>

Data Type: Cruise Results

Version: 1

Version Date: 2004-07-14

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

Chlorophyll data from R/V Endeavor cruises EN321 and EN325 to 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:41.0032 W:-70.3288

Temporal Extent: 1999 - 1999

Dataset Description

Chlorophyll data from R/V Endeavor 321 and 325

The pigments were analyzed by fluorometry according to **Parsons et al.** 1984, "[A Manual of Chemical and Biological Methods for Seawater Analysis.](#)" Pergamon Press, New York.

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Methods & Sampling

Chlorophyll data from Dian Gifford's Georges Bank Cruise R/V Endeavor EN325.

Data Processing Description

The pigments were analyzed by fluorometry according to Parsons et al. 1984, "A Manual of Chemical and Biological Methods for Seawater Analysis." Pergamon Press, New York.

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Data Files

File
chlorophyll.csv (Comma Separated Values (.csv), 17.55 KB) MD5:297aa13afacc303da736a88dc60ac732 Primary data file for dataset ID 2417

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Parameters

Parameter	Description	Units
cruiseid	cruise identification	
year	four digit year	
cast	CTD cast number	
lat	latitude, negative = south	decimal degrees
lon	longitude, negative = west	decimal degrees
depth	depth of sample	meters
chl_a	chlorophyll-a pigment	micrograms/liter
chl_a_stderr	chlorophyll-a standard error	
phaeo	phaeopigment	micrograms/liter
phaeo_stderr	phaeopigment standard error	

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Instruments

Dataset-specific Instrument Name	Conductivity, Temperature, Depth
Generic Instrument Name	CTD - profiler
Dataset-specific Description	CTD measurements taken, CTD unit unidentified.
Generic Instrument Description	The Conductivity, Temperature, Depth (CTD) unit is an integrated instrument package designed to measure the conductivity, temperature, and pressure (depth) of the water column. The instrument is lowered via cable through the water column. It permits scientists to observe the physical properties in real-time via a conducting cable, which is typically connected to a CTD to a deck unit and computer on a ship. The CTD is often configured with additional optional sensors including fluorometers, transmissometers and/or radiometers. It is often combined with a Rosette of water sampling bottles (e.g. Niskin, GO-FLO) for collecting discrete water samples during the cast. This term applies to profiling CTDs. For fixed CTDs, see https://www.bco-dmo.org/instrument/869934 .

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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	<p>process</p> <p>Methods & Sampling Chlorophyll data from Dian Gifford's Georges Bank Cruise R/V Endeavor 321.</p> <p>Processing Description The pigments were analyzed by fluorometry according to Parsons et al. 1984, "A Manual of Chemical and Biological Methods for Seawater Analysis." Pergamon Press, New York.</p>

EN325

Website	https://www.bco-dmo.org/deployment/57432
Platform	R/V Endeavor
Start Date	1999-06-13
End Date	1999-06-30
Description	<p>process</p> <p>Methods & Sampling Chlorophyll data from Dian Gifford's Georges Bank Cruise R/V Endeavor EN325.</p> <p>Processing Description The pigments were analyzed by fluorometry according to Parsons et al. 1984, "A Manual of Chemical and Biological Methods for Seawater Analysis." Pergamon Press, New York.</p>

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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 Oceanic and Atmospheric Administration (NOAA)	unknown GB NOAA
NSF Division of Ocean Sciences (NSF OCE)	OCE-9806375

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