

# 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

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## 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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*updated: gfh, July 14, 2004*

## Acquisition Description

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

## 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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## 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

<b>Dataset-specific Instrument Name</b>	Conductivity, Temperature, Depth
<b>Generic Instrument Name</b>	CTD profiler
<b>Dataset-specific Description</b>	CTD measurements taken, CTD unit unidentified.
<b>Generic Instrument Description</b>	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 and permits scientists observe the physical properties in real time via a conducting cable connecting the CTD to a deck unit and computer on the 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 instrument designation is used when specific make and model are not known.

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## Deployments

EN321

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57428">https://www.bco-dmo.org/deployment/57428</a>
<b>Platform</b>	R/V Endeavor
<b>Start Date</b>	1999-03-28
<b>End Date</b>	1999-04-11
<b>Description</b>	<p>process</p> <p><b>Acquisition Description</b> Chlorophyll data from Dian Gifford's Georges Bank Cruise R/V Endeavor 321.</p> <p><b>Processing Description</b> 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

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57432">https://www.bco-dmo.org/deployment/57432</a>
<b>Platform</b>	R/V Endeavor
<b>Start Date</b>	1999-06-13
<b>End Date</b>	1999-06-30
<b>Description</b>	<p>process</p> <p><b>Acquisition Description</b> Chlorophyll data from Dian Gifford's Georges Bank Cruise R/V Endeavor EN325.</p> <p><b>Processing Description</b> 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](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)	<a href="#">unknown GB NOAA</a>
<a href="#">NSF Division of Ocean Sciences (NSF OCE)</a>	<a href="#">OCE-9806375</a>

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