

# Bedford Institute of Oceanography CTD Data from 10 cruises to the Eastern Gulf of Maine/Scotian Shelf aboard Canadian ships CCGS Cygnus, R/V Hudson, and R/V Parizeau from 1993-1999 (GB project)

Website: <https://www.bco-dmo.org/dataset/2405>

Data Type: Cruise Results

Version: 1

Version Date: 2004-04-08

## Project

» [U.S. GLOBEC Georges Bank](#) (GB)

## Program

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

Contributors	Affiliation	Role
<a href="#">Smith, Peter C.</a>	Bedford Institute of Oceanography (BIO)	Principal Investigator
<a href="#">Allison, Dicky</a>	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

## Abstract

Bedford Institute of Oceanography CTD Data from 10 cruises to the Eastern Gulf of Maine/Scotian Shelf aboard Canadian ships CCGS Cygnus, R/V Hudson, and R/V Parizeau from 1993-1999 (GB project)

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## Coverage

**Spatial Extent:** N:44.6922 E:-61.3968 S:40.833 W:-67.9975

**Temporal Extent:** 1993-10-12 - 1999-09-29

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## Dataset Description

# CTD Data from Eastern Gulf of Maine/Scotian Shelf

**PI:** Peter C. Smith  
Coastal Ocean Science  
Bedford Institute of Oceanography

**Dataset:** Eastern Gulf of Maine/Scotian Shelf

**Ships:** CCS Parizeau, CCGS Hudson and CCGS Cygnus

Note: Where available, see on-line cruise reports for additional information on sampling and data processing.

*updated: April 8, 2004. G.Heimerdinger*

## Acquisition Description

CTD Data from Eastern Gulf of Maine/Scotian Shelf.

## Processing Description

BCO-DMO corrected lon value of station 6 to -66.0338 (it was -60.0338) for cruise PAR98-078. Correct value is in cruise report. 06/05/12.

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## Parameters

Parameter	Description	Units
cruiseid	cruise identifier e.g. AL9505 = RV/Albatross-9505	text
year	year of sampling	YYYY
station	station number	integer
day_gmt	day of month in local time	1 to 31
month_gmt	month in local time	1 to 12
time_gmt	local time	HHmm
lat	latitude: North is positive and negative denotes South	decimal degrees
lon	longitude: East is positive and negative denotes West	decimal degrees
depth_w	depth of the water	meters
press	pressure; depth of sample	decibars
temp	temperature	degrees Celsius
sal	salinity	psu
sigma_0	density	kilograms/meter <sup>3</sup>
potemp	potential temperature	degrees Celsius

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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

### CY98-079

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57392">https://www.bco-dmo.org/deployment/57392</a>
<b>Platform</b>	CCGS Cygnus
<b>Report</b>	<a href="http://globec.who.edu/globec-dir/reports/cygnus9879/cygnus9879.htm">http://globec.who.edu/globec-dir/reports/cygnus9879/cygnus9879.htm</a>
<b>Start Date</b>	1999-03-23
<b>End Date</b>	1999-03-31
<b>Description</b>	long term mooring deployment <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

**HUD9877**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57435">https://www.bco-dmo.org/deployment/57435</a>
<b>Platform</b>	CCGS Hudson
<b>Report</b>	<a href="http://globec.who.edu/globec-dir/reports/hud9877/hud9877.html">http://globec.who.edu/globec-dir/reports/hud9877/hud9877.html</a>
<b>Start Date</b>	1998-11-20
<b>End Date</b>	1998-11-26
<b>Description</b>	long term mooring <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

**PAR93-032**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57471">https://www.bco-dmo.org/deployment/57471</a>
<b>Platform</b>	R/V Parizeau
<b>Start Date</b>	1993-10-11
<b>End Date</b>	1993-10-16
<b>Description</b>	long term mooring deployment <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

**PAR94-018**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57472">https://www.bco-dmo.org/deployment/57472</a>
<b>Platform</b>	R/V Parizeau
<b>Start Date</b>	1994-06-24
<b>End Date</b>	1994-06-30
<b>Description</b>	long term mooring turn-around <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

#### PAR95-010

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57473">https://www.bco-dmo.org/deployment/57473</a>
<b>Platform</b>	R/V Parizeau
<b>Report</b>	<a href="http://globec.whoi.edu/globec-dir/reports/par95010/PAR95-010.pdf">http://globec.whoi.edu/globec-dir/reports/par95010/PAR95-010.pdf</a>
<b>Start Date</b>	1995-06-06
<b>End Date</b>	1995-06-13
<b>Description</b>	long term mooring turn-around <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

#### PAR95-034

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57474">https://www.bco-dmo.org/deployment/57474</a>
<b>Platform</b>	R/V Parizeau
<b>Report</b>	<a href="http://globec.whoi.edu/globec-dir/reports/par95034/PAR95034.pdf">http://globec.whoi.edu/globec-dir/reports/par95034/PAR95034.pdf</a>
<b>Start Date</b>	1995-11-24
<b>End Date</b>	1995-12-03
<b>Description</b>	long term mooring turn-around <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

**PAR96-024**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57475">https://www.bco-dmo.org/deployment/57475</a>
<b>Platform</b>	R/V Parizeau
<b>Report</b>	<a href="http://globec.who.edu/globec-dir/reports/par9624/par9624.htm">http://globec.who.edu/globec-dir/reports/par9624/par9624.htm</a>
<b>Start Date</b>	1996-09-23
<b>End Date</b>	1996-09-30
<b>Description</b>	long term mooring turn-around <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

**PAR97-025**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57476">https://www.bco-dmo.org/deployment/57476</a>
<b>Platform</b>	R/V Parizeau
<b>Report</b>	<a href="http://globec.who.edu/globec-dir/reports/par9725/par9725.htm">http://globec.who.edu/globec-dir/reports/par9725/par9725.htm</a>
<b>Start Date</b>	1997-06-27
<b>End Date</b>	1997-07-04
<b>Description</b>	long term mooring <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

**PAR98-078**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57477">https://www.bco-dmo.org/deployment/57477</a>
<b>Platform</b>	R/V Parizeau
<b>Report</b>	<a href="http://globec.whoi.edu/globec-dir/reports/par9878/par9878.htm">http://globec.whoi.edu/globec-dir/reports/par9878/par9878.htm</a>
<b>Start Date</b>	1999-02-10
<b>End Date</b>	1999-02-16
<b>Description</b>	process <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

### PAR99-028

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57478">https://www.bco-dmo.org/deployment/57478</a>
<b>Platform</b>	R/V Parizeau
<b>Report</b>	<a href="http://globec.whoi.edu/globec-dir/reports/par9928/par9928.html">http://globec.whoi.edu/globec-dir/reports/par9928/par9928.html</a>
<b>Start Date</b>	1999-09-23
<b>End Date</b>	1999-09-30
<b>Description</b>	process <b>Acquisition Description</b> CTD Data from Eastern Gulf of Maine/Scotian Shelf.

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## Project Information

### U.S. GLOBEC Georges Bank (GB)

**Website:** [http://globec.whoi.edu/globec\\_program.html](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)	<a href="#">unknown GB NSF</a>
National Oceanic and Atmospheric Administration (NOAA)	<a href="#">unknown GB NOAA</a>

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