

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
Smith, Peter C.	Bedford Institute of Oceanography (BIO)	Principal Investigator
Allison, Dicky	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

Abstract

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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

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

Methods & Sampling

CTD Data from Eastern Gulf of Maine/Scotian Shelf.

Data 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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Data Files

File
ctd_ps.csv (Comma Separated Values (.csv), 11.42 MB) MD5:bea8f1b940e62f39f3e0ebc9a737544f Primary data file for dataset ID 2405

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Parameters

Parameter	Description	Units
cruiseid	cruise identifier e.g. AL9505 = RV/Albatross-9505	text
year	year of sampling in YYYY format.	unitless
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 ³
potemp	potential temperature	degrees Celsius

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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

CY98-079

Website	https://www.bco-dmo.org/deployment/57392
Platform	CCGS Cygnus
Report	http://globec.whoi.edu/globec-dir/reports/cygnus9879/cygnus9879.htm
Start Date	1999-03-23
End Date	1999-03-31
Description	long term mooring deployment Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

HUD9877

Website	https://www.bco-dmo.org/deployment/57435
Platform	CCGS Hudson
Report	http://globec.whoi.edu/globec-dir/reports/hud9877/hud9877.html
Start Date	1998-11-20
End Date	1998-11-26
Description	long term mooring Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

PAR93-032

Website	https://www.bco-dmo.org/deployment/57471
Platform	R/V Parizeau
Start Date	1993-10-11
End Date	1993-10-16
Description	long term mooring deployment Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

PAR94-018

Website	https://www.bco-dmo.org/deployment/57472
Platform	R/V Parizeau
Start Date	1994-06-24
End Date	1994-06-30
Description	long term mooring turn-around Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

PAR95-010

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

PAR95-034

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

PAR96-024

Website	https://www.bco-dmo.org/deployment/57475
Platform	R/V Parizeau
Report	http://globec.whoi.edu/globec-dir/reports/par9624/par9624.htm
Start Date	1996-09-23
End Date	1996-09-30
Description	long term mooring turn-around Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

PAR97-025

Website	https://www.bco-dmo.org/deployment/57476
Platform	R/V Parizeau
Report	http://globec.whoi.edu/globec-dir/reports/par9725/par9725.htm
Start Date	1997-06-27
End Date	1997-07-04
Description	long term mooring Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

PAR98-078

Website	https://www.bco-dmo.org/deployment/57477
Platform	R/V Parizeau
Report	http://globec.whoi.edu/globec-dir/reports/par9878/par9878.htm
Start Date	1999-02-10
End Date	1999-02-16
Description	process Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

PAR99-028

Website	https://www.bco-dmo.org/deployment/57478
Platform	R/V Parizeau
Report	http://globec.whoi.edu/globec-dir/reports/par9928/par9928.html
Start Date	1999-09-23
End Date	1999-09-30
Description	process Methods & Sampling CTD Data from Eastern Gulf of Maine/Scotian Shelf.

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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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