Bedford Institute of Oceanography Moored Current Meter Data deployed during cruises to the Eastern Gulf of Maine/Scotian Shelf from Canadian ships R/V Parizeau and R/V Hudson from 1993-1999 as part of the U.S. GLOBEC Georges Bank project (GB project)

Website: https://www.bco-dmo.org/dataset/2406
Data Type: Cruise Results
Version: 1
Version Date: 2005-03-16

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
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Abstract
Bedford Institute of Oceanography Moored Current Meter Data deployed during cruises to the Eastern Gulf of Maine/Scotian Shelf from Canadian ships R/V Parizeau and R/V Hudson from 1993-1999 as part of the U.S. GLOBEC Georges Bank project (GB project)

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Coverage

Spatial Extent: **N**:43.0457 **E**:-65.5716 **S**:41.3227 **W**:-66.5383
Temporal Extent: 1993 - 1999

Dataset Description

Moored Current Meter Observations

In general, mooring locations and depths of current meters are redeployments of previous moorings. Thus, for some sites, the data record can be near continuous from 1993.

Contributor:
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CANADA

Methods & Sampling

Moored Current Meter data from Peter Smith's cruises from Bedford Institute of Oceanography (BIO)

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Data Files

File
mcm_ps.csv (Comma Separated Values (.csv), 46.26 MB) MD5:a3193fe9b932029a7e67a2ad2c79877a Primary data file for dataset ID 2406

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Parameters

Parameter	Description	Units
cruiseid	Identification of cruise that deployed or recovered the moorings	
year	year data was collected	
site	mooring/site identification	
lat	latitude, negative = South	decimal degrees
lon	longitude, negative = West	decimal degrees
depth_w	depth of water	meters
depth	depth of current meter	meters
yrday_utc	Julian Day, UTC time	fractional day
temp	temperature	degrees C
sal	salinity, PSS	
curr_dir_abs	absolute current direction	degrees true
curr_speed_abs	absolute current speed	centimeters/second

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Instruments

Dataset-specific Instrument Name	Aanderaa Recording Current Meters
Generic Instrument Name	Aanderaa Recording Current Meter
Dataset-specific Description	Aanderaa Recording Current Meters
Generic Instrument Description	The Aanderaa Recording Current Meter (RCM) is a self-contained instrument that can be moored in the sea and record ocean current, water temperature, conductivity of the water and depth of the instrument. This instrument designation is used when specific make and model are not known. (more from Aanderaa).

Dataset-specific Instrument Name	Aanderaa Tide Gauge
Generic Instrument Name	Aanderaa Tide Gauge
Dataset-specific Description	Aanderaa Tide Gauge
Generic Instrument Description	The Aanderaa tide gauge measures and records the time and height of the sea surface as it changes with the tides.

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Deployments

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** Moored Current Meter data from Peter Smith's cruises from Bedford Institute of Oceanography (BIO)

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** Moored Current Meter data from Peter Smith's cruises from Bedford Institute of Oceanography (BIO)

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** Moored Current Meter data from Peter Smith's cruises from Bedford Institute of Oceanography (BIO)

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** Moored Current Meter data from Peter Smith's cruises from Bedford Institute of Oceanography (BIO)

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** Moored Current Meter data from Peter Smith's cruises from Bedford Institute of Oceanography (BIO)

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** Moored Current Meter data from Peter Smith's cruises from Bedford Institute of Oceanography (BIO)

Scotian_Shelf

Website	https://www.bco-dmo.org/deployment/57361
Platform	Scotian Shelf Mooring
Start Date	1993-10-01
End Date	1999-09-01
Description	BIO Moored Current Meter Data from the Scotian Shelf Georges Bank Scotian Shelf Cross Over mooring arrays **Methods & Sampling** Scotian Shelf Mooring

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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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