1995 and 1996 temperature, salinity and fluorescence data, GLOBEC Georges Bank Broadscale cruises from the Gulf of Maine and Georges Bank (GB project)

Website: https://www.bco-dmo.org/dataset/2299
Data Type: Cruise Results
Version: 1
Version Date: 2011-03-29

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
1995 and 1996 temperature, salinity and fluorescence data, GLOBEC Georges Bank Broadscale cruises from the Gulf of Maine and Georges Bank

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Coverage

Spatial Extent: **N**:42.3433 **E**:-65.6567 **S**:40.3117 **W**:-69.1417
Temporal Extent: 1995-03-09 - 1996-03-12

Dataset Description

Water column properties, Broadscale CTD stations, 1995 and 1996.

PI NOTES:

The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

The companion object which includes the raw chlorophyll and phaeophytin values for these same cruises is chloro_bottle.

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Updated November 15, 2005; gfh

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Data Files

File
chloro_bottle_ctd_join.csv (Comma Separated Values (.csv), 141.42 KB) MD5:c9934119394e2ba4248b99bd25bfff07 Primary data file for dataset ID 2299

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Parameters

Parameter	Description	Units
cruiseid	cruise identification	
year	year	
cast	CTD roset te cast number	
bottle	bottle number	
press	sample depth, reported as pressure	decibars
temp	water temperature	degrees Centigrade
cond_mM	water conductivity	millimhos per centimeter
sal	salinity	(unitless - PSU)
flvolt	fluorescence	volts
lat	latitude in decimal degrees: North is positive; negative denotes South	decimal degrees
lon	longitude in decimal degrees: East is positive; negative denotes West	decimal degrees
station_std	standard broad-scale station number	integer
day_local	local-time day	1 to 31
month_local	local-time month	1 to 12
depth_w	depth of water	meters
depth	maximum depth of sample	meters
yrday_local	local day and decimal time, as 326.5 for the 326th day of the year, or November 22 at 1200 hours (noon)	
time_local	time of day, local time, using 2400 clock format	

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Instruments

Dataset-specific Instrument Name	CTD Neil Brown Mark 5
Generic Instrument Name	CTD Neil Brown Mark 5
Generic Instrument Description	The Neil Brown Instrument Systems Mark 5 CTD is used to measure conductivity, temperature, and depth of sea water. The MK5 profiler has a higher sampling rate then the SeaBird SEACAT. (For the GLOBEC Georges Bank project the Mark 5 was instrumented with an expanded suite of sensors and deployed almost exclusively at GLOBEC Standard stations.)

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Deployments

AL9505

Website	https://www.bco-dmo.org/deployment/57371
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9505/al9505rot.pdf
Start Date	1995-05-09
End Date	1995-05-18
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

AL9506

Website	https://www.bco-dmo.org/deployment/57372
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9506/al9506new.html
Start Date	1995-06-05
End Date	1995-06-15
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

AL9508

Website	https://www.bco-dmo.org/deployment/57373
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9508/a9508rp2.HTM
Start Date	1995-07-10
End Date	1995-07-20
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

AL9605

Website	https://www.bco-dmo.org/deployment/57375
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9605/al9605.html
Start Date	1996-05-06
End Date	1996-05-17
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

AL9607

Website	https://www.bco-dmo.org/deployment/57376
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9607/AL9607.pdf
Start Date	1996-06-03
End Date	1996-06-13
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

EN261

Website	https://www.bco-dmo.org/deployment/57401
Platform	R/V Endeavor
Start Date	1995-02-10
End Date	1995-02-20
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

EN263

Website	https://www.bco-dmo.org/deployment/57403
Platform	R/V Endeavor
Report	http://globec.whoi.edu/globec-dir/reports/en263/EN263.pdf
Start Date	1995-03-13
End Date	1995-03-24
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

EN265

Website	https://www.bco-dmo.org/deployment/57405
Platform	R/V Endeavor
Start Date	1995-04-11
End Date	1995-04-22
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

EN276

Website	https://www.bco-dmo.org/deployment/57413
Platform	R/V Endeavor
Report	http://globec.whoi.edu/globec-dir/reports/en276/EN276.pdf
Start Date	1996-01-10
End Date	1996-01-22
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

EN278

Website	https://www.bco-dmo.org/deployment/57414
Platform	R/V Endeavor
Start Date	1996-02-13
End Date	1996-02-25
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

EN282

Website	https://www.bco-dmo.org/deployment/57415
Platform	R/V Endeavor
Start Date	1996-04-08
End Date	1996-04-20
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

OC275

Website	https://www.bco-dmo.org/deployment/57440
Platform	R/V Oceanus
Start Date	1996-03-11
End Date	1996-03-22
Description	broad-scale **Methods & Sampling** The 1995 and 1996 bottle data were collected with a GO rosette mounted above the MK5 CTD. The temperature, conductivity, salinity, and fluorescence data were collected from the CTD data stream when the bottle was tripped (~30 scans are averaged).

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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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