

# Great South Channel (Georges Bank) Mooring Data collected from January - August, 1997 for the U.S. GLOBEC Georges Bank project (GB project)

**Website:** <https://www.bco-dmo.org/dataset/2407>

**Data Type:** Cruise Results

**Version:** 1

**Version Date:** 2010-03-12

## Project

» [U.S. GLOBEC Georges Bank](#) (GB)

## Program

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

Contributors	Affiliation	Role
<a href="#">Schlitz, Ronald</a>	National Oceanic and Atmospheric Administration (NOAA)	Principal Investigator
<a href="#">Allison, Dicky</a>	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

## Abstract

Great South Channel (Georges Bank) Mooring Data collected from January - August, 1997 for the U.S. GLOBEC Georges Bank project (GB project)

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## Coverage

**Spatial Extent:** N:40.8673 E:-68.17 S:40.2453 W:-69.15

**Temporal Extent:** 1997-01 - 1997-08

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## Dataset Description

### Great South Channel Moorings, January to August, 1997

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## Notes:

Each mooring number below has information relevant to the data.

global attributes:

:DATA\_ORIGIN = "USGS";  
:MOORING = "4941";  
:DESCRIPT = "VACM-C, GREAT SOUTH CHANNEL SITE 1, CLEAN DATA: NOT SCRUBBED";  
:start\_time = "97- I-16 13.33.45";  
:stop\_time = "97- III-11 17.11.15";  
:latitude = 40.81667f;  
:longitude = -68.15f;  
THIS LONGITUDE IS INCORRECT. THE CORRECT LONGITUDE IS -69.15.  
:magnetic\_variation = -17.f;  
:sampling\_interval = 450;  
:water\_depth = 70.f;  
:WATER\_DEPTH = 70;  
:CREATION\_DATE = "10:57 NOV 26,\97";  
:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

:DATA\_ORIGIN = "USGS";  
:MOORING = "4831";  
:DESCRIPT = "VACM GLOBEC GREAT SOUTH CHANNEL SITE 2";  
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:stop\_time = "97- VI-20 13.48.45";  
:latitude = 40.85417f;  
:longitude = -68.81683f;  
:magnetic\_variation = -16.f;  
:sampling\_interval = 450;  
:water\_depth = 72.f;  
:WATER\_DEPTH = 72;  
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:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

:DATA\_ORIGIN = "USGS";  
:MOORING = "4832";  
:DESCRIPT = "VACM-C, GREAT SOUTH CHANNEL SITE 2, COMPASS TROUBLE STARTED ";  
:start\_time = "97- I-13 19.33.45";  
:stop\_time = "97- III-27 07.11.15";  
:latitude = 40.85417f;  
:longitude = -68.81683f;  
:magnetic\_variation = -16.f;  
:sampling\_interval = 450;  
:water\_depth = 72.f;  
:WATER\_DEPTH = 72;  
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:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

:DATA\_ORIGIN = "USGS";  
:MOORING = "4821";  
:DESCRIPT = "SEACAT, GREAT SOUTH CHANNEL SITE 3. CLEAN DATA, NOT SCRUBBE";  
:start\_time = "97- I-13 16.35.00";  
:stop\_time = "97- VI-20 17.25.00";  
:latitude = 40.8625f;  
:longitude = -68.66683f;  
:magnetic\_variation = 0.f;  
:sampling\_interval = 600;  
:water\_depth = 62.f;  
:WATER\_DEPTH = 62;  
:CREATION\_DATE = "10:40 NOV 25,\97";  
:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

:DATA\_ORIGIN = "USGS";  
:MOORING = "4871";  
:DESCRIPT = "VMCM SITE 4 GREAT SOUTH CHANNEL. MANY WLD POINTS SCRUBBED. ";  
:start\_time = "97- I-14 20.31.52";  
:stop\_time = "97- II-09 08.28.07";  
:latitude = 40.867f;  
:longitude = -68.51017f;  
:magnetic\_variation = -16.56f;  
:sampling\_interval = 225;

:water\_depth = 52.f;  
:WATER\_DEPTH = 52;  
:CREATION\_DATE = "15:10 MAR 7,\97";  
:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

:DATA\_ORIGIN = "USGS";  
:MOORING = "4921";  
:DESCRPT = "SEACAT, GREAT SOUTH CHANNEL SITE 5. CLEAN DATA, NOT SCRUBBE";  
:start\_time = "97- I-15 23.35.00";  
:stop\_time = "97-VIII-20 17.25.00";  
:latitude = 40.71583f;  
:longitude = -68.40667f;  
:magnetic\_variation = 0.f;  
:sampling\_interval = 600;  
:water\_depth = 61.f;  
:WATER\_DEPTH = 61;  
:CREATION\_DATE = "10:57 NOV 25,\97";  
:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

:DATA\_ORIGIN = "USGS";  
:MOORING = "4931";  
:DESCRPT = "VACM-C, GREAT SOUTH CHANNEL SITE 6, CLEAN DATA: NOT SCRUBBED";  
:start\_time = "97- I-16 03.33.45";  
:stop\_time = "97-VIII-17 18.18.45";  
:latitude = 40.62683f;  
:longitude = -68.356f;  
:magnetic\_variation = -17.f;  
:sampling\_interval = 450;  
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:WATER\_DEPTH = 80;  
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:MOORING = "4933";  
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:stop\_time = "97- V-17 00.01.00";  
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:longitude = -68.356f;  
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:water\_depth = 80.f;  
:WATER\_DEPTH = 80;  
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:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

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:MOORING = "4901";  
:DESCRPT = "VACM-C, GREAT SOUTH CHANNEL SITE 7, CLEAN DATA: NOT SCRUBBED";  
:start\_time = "97- I-15 19.33.45";  
:stop\_time = "97-VIII-17 09.56.15";  
:latitude = 40.51683f;  
:longitude = -68.28616f;  
:magnetic\_variation = -17.f;  
:sampling\_interval = 450;  
:water\_depth = 101.f;  
:WATER\_DEPTH = 101;  
:CREATION\_DATE = "09:13 DEC 1,\97";  
:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

:DATA\_ORIGIN = "USGS";  
:MOORING = "4902";  
:DESCRPT = "VACM GLOBEC GREAT SOUTH CHANNEL SITE 7";  
:start\_time = "97- I-15 19.33.45";

```
:stop_time = "97-VIII-17 09.26.15" ;
:latitude = 40.51683f ;
:longitude = -68.28616f ;
:magnetic_variation = -17.f ;
:sampling_interval = 450 ;
:water_depth = 101.f ;
:WATER_DEPTH = 101 ;
:CREATION_DATE = "13:33 DEC 5,\97" ;
:DATA_TYPE = "TIME" ;
:COORD_SYSTEM = "GEOGRAPHICAL" ;

:DATA_ORIGIN = "USGS" ;
:MOORING = "4903" ;
:DESCRIPT = "AANDERAA GREAT SOUTH CHANNEL SITE 7. CLEAN DATA, NOT SCRUBB" ;
:start_time = "97- I-15 23.41.00" ;
:stop_time = "97- V-14 00.21.00" ;
:latitude = 40.51683f ;
:longitude = -68.28616f ;
:magnetic_variation = -16.f ;
:sampling_interval = 1200 ;
:water_depth = 101.f ;
:WATER_DEPTH = 101 ;
:CREATION_DATE = "13:53 DEC 10,\97" ;
:DATA_TYPE = "TIME" ;
:COORD_SYSTEM = "GEOGRAPHICAL" ;

:DATA_ORIGIN = "USGS" ;
:MOORING = "4892" ;
:DESCRIPT = "MX-VACM, GREAT SOUTH CHANNEL SITE 8. NO ROTOR, MOORING FELL" ;
:start_time = "97- I-15 16.33.45" ;
:stop_time = "97- II-11 22.26.15" ;
:latitude = 40.24533f ;
:longitude = -68.17f ;
:magnetic_variation = -16.5f ;
:sampling_interval = 450 ;
:water_depth = 325.f ;
:WATER_DEPTH = 325 ;
:CREATION_DATE = "16:31 FEB 6,\98" ;
:DATA_TYPE = "TIME" ;
:COORD_SYSTEM = "GEOGRAPHICAL" ;

:DATA_ORIGIN = "USGS" ;
:MOORING = "4893" ;
:DESCRIPT = "AANDERAA GREAT SOUTH CHANNEL SITE 8. MOORING FELL 2/12. " ;
:start_time = "97- I-15 15.42.00" ;
:stop_time = "97- II-12 01.42.00" ;
:latitude = 40.24533f ;
:longitude = -68.17f ;
:magnetic_variation = -16.f ;
:sampling_interval = 1200 ;
:water_depth = 325.f ;
:WATER_DEPTH = 325 ;
:CREATION_DATE = "13:51 DEC 10,\97" ;
:DATA_TYPE = "TIME" ;
:COORD_SYSTEM = "GEOGRAPHICAL" ;

:DATA_ORIGIN = "USGS" ;
:MOORING = "4894" ;
:DESCRIPT = "AANDERAA GREAT SOUTH CHANNEL SITE 8. MOORING FELL 2/12." ;
:start_time = "97- I-15 16.40.00" ;
:stop_time = "97- II-12 01.40.00" ;
:latitude = 40.24533f ;
:longitude = -68.17f ;
:magnetic_variation = -16.f ;
:sampling_interval = 1200 ;
:water_depth = 325.f ;
:WATER_DEPTH = 325 ;
:CREATION_DATE = "13:47 DEC 10,\97" ;
:DATA_TYPE = "TIME" ;
:COORD_SYSTEM = "GEOGRAPHICAL" ;
```

:DATA\_ORIGIN = "USGS";  
:MOORING = "4841";  
:DESCRIPT = "VACM GLOBEC GREAT SOUTH CHANNEL SITE 9";  
:start\_time = "97- I-14 00.33.45";  
:stop\_time = "97- VI-21 22.48.45";  
:latitude = 40.70033f;  
:longitude = -68.67533f;  
:magnetic\_variation = -16.f;  
:sampling\_interval = 450;  
:water\_depth = 61.f;  
:WATER\_DEPTH = 61;  
:CREATION\_DATE = "11:06 DEC 2,\97";  
:DATA\_TYPE = "TIME";  
:COORD\_SYSTEM = "GEOGRAPHICAL";

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## Data Files

File
<b>moorings_GSC.csv</b> (Comma Separated Values (.csv), 71.39 MB) MD5:a6cc070eb0af9a9cf5329b45c9b991bf Primary data file for dataset ID 2407

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## Parameters

Parameter	Description	Units
site	which spot	
mooring	mooring number; refer to notes below	
sensor_type	see notes below for details	
depth	depth of instrument on mooring	meters
lat	latitude of tow, North = positive	decimal degrees
lon	longitude tow, East = positive	decimal degrees
year	year deployed	
month_gmt	month of data	
day_gmt	Self explanatory	
time_gmt	Self explanatory	
bearing		degrees
east	east component of current (negative=west)	cm/sec
north	north component of current(negative=south)	cm/sec
rotor	rotor speed	cm/sec
temp	temperature	degrees C
sal	salinity	parts per thousand(ppt)
cond	conductivity	siemens/meter
press	pressure	decibars
sigma_0	sigma theta, potential density	kg/m3
vdir_1	current direction	degrees
vspd_1	current speed	cm/sec
u_1	east component of current	cm/sec
v_1	north component of current	cm/sec

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## Deployments

### GB\_GSChannel\_buoy\_1

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/58041">https://www.bco-dmo.org/deployment/58041</a>
<b>Platform</b>	GB GSChannel Mooring
<b>Start Date</b>	1997-01-16
<b>End Date</b>	1997-08-20
<b>Description</b>	Great South Channel Moorings, January to August, 1997

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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 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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