

Ship data collected along the track during R/V Oceanus cruises OC296, OC301, and OC303 in the Gulf of Maine and Georges Bank as part of the U.S. GLOBEC program in 1997 (GB project)

Website: <https://www.bco-dmo.org/dataset/2414>

Data Type: Cruise Results

Version: 1

Version Date: 2005-09-16

Project

» [U.S. GLOBEC Georges Bank](#) (GB)

Program

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

Contributors	Affiliation	Role
Manning, James P.	Northeast Fisheries Science Center - Woods Hole (NOAA NEFSC)	Principal Investigator
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Abstract

Ship data collected along the track during R/V Oceanus cruises OC296, OC301, and OC303 in the Gulf of Maine and Georges Bank as part of the U.S. GLOBEC program in 1997.

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Coverage

Spatial Extent: N:41.6838 E:-66.1414 S:40.161 W:-70.8901

Temporal Extent: 1997 - 1997

Dataset Description

Oceanus Cruises: 296, 301 and 303 Shipboard meteorology and sea surface measurements along the ship's track

Note:

I (Jim Manning) suggest that investigators use Dick Payne's version of OCEANUS alongtrack data. The raw data I post here was processed primarily while underway and has obvious problems. There are unrealistic (sometimes negative) temperature and erratic salinity. Winds are of especially poor quality as noted below.

I have been delayed in getting this data on-line because I am not happy with my "corrected" wind (with ships

motion removed) and, I am still not comfortable with posting the corrected wind so I have added a comment on the fact that it is questionable. I have notified the OCEANUS SSSG people about this problem. In the meantime I suggest that any one interested in wind for these periods use the NOAA buoy winds or Dick Paynes OCEANUS alongtrack data instead.

Data submitted by:

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Last modified: Sept 16, 2005; gfh w/ input from J.Manning

Methods & Sampling

GLOBEC Georges Bank Cruises OCEANUS Shipboard Sensor Data. Cleaned and merged to 1 minute intervals

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Data Files

File
oc_shipdata.csv (Comma Separated Values (.csv), 4.91 MB) MD5:5e045e740f5d55ffc8d2219482cb7297
Primary data file for dataset ID 2414

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Parameters

Parameter	Description	Units
cruiseid	cruise identification	
year	year	
ship	ship name as a code, i.e. oc = Oceanus	
day_gmt	day of month/gmt time (1-31)	
hr	hour of day/gmt time (0-23)	
mn	minute of hour (0-59)	
yrday0_gmt	yearday/time, gmt, where yearday 0.5 = Jan 1 at 1200 hrs	dec. yearday
lat	latitude, negative = South	decimal degrees
lon	longitude, negative = West	decimal degrees
temp_ss5	sea surface temperature, temp sensor at 5 meters, hull intake	degrees C
sal_ss3	sea surface salinity, conductivity cell at 3 meters, hull intake	PSU
cond_mM	conductivity	mmho/cm
temp_air	air temperature	degrees C
wind_vel_u	eastward component of wind velocity, oceanographic convention	meters/second
wind_vel_v	northward component of wind velocity, oceanographic convention	meters/second
press_bar	barometric pressure	millibars
radiation_s	shortwave radiation	unknown
wind_taux	eastward wind stress	pascals
wind_tauy	northward wind stress	pascals

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Instruments

Dataset-specific Instrument Name	Thermosalinograph
Generic Instrument Name	Thermosalinograph
Dataset-specific Description	Thermosalinograph used to obtain a continuous record of sea surface temperature and salinity.
Generic Instrument Description	A thermosalinograph (TSG) is used to obtain a continuous record of sea surface temperature and salinity. On many research vessels the TSG is integrated into the ship's underway seawater sampling system and reported with the underway or alongtrack data.

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Deployments

OC296

Website	https://www.bco-dmo.org/deployment/57443
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc296/cruise-report.html
Start Date	1997-01-12
End Date	1997-01-17
Description	long term mooring deployment Methods & Sampling GLOBEC Georges Bank Cruises OCEANUS Shipboard Sensor Data. Cleaned and merged to 1 minute intervals

OC301

Website	https://www.bco-dmo.org/deployment/57447
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc301/oc301.html
Start Date	1997-04-05
End Date	1997-04-17
Description	process fish vital rates Methods & Sampling GLOBEC Georges Bank Cruises OCEANUS Shipboard Sensor Data. Cleaned and merged to 1 minute intervals

OC303

Website	https://www.bco-dmo.org/deployment/57449
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc303/oc303.html
Start Date	1997-05-06
End Date	1997-05-23
Description	process Methods & Sampling GLOBEC Georges Bank Cruises OCEANUS Shipboard Sensor Data. Cleaned and merged to 1 minute intervals

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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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