Small scale drifters deployed from 10 process cruises into the Gulf of Maine and Georges Bank from 1995-1999 as part of the U.S. GLOBEC program (GB project)

Website: https://www.bco-dmo.org/dataset/2430
Data Type: Cruise Results
Version: 1
Version Date: 2004-08-02

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
Small scale drifters deployed from 10 process cruises into the Gulf of Maine and Georges Bank from 1995-1999 as part of the U.S. GLOBEC program.

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Coverage

Spatial Extent: **N**:41.9387 **E**:-62.066 **S**:39.0437 **W**:-69.309
Temporal Extent: 1995-03-14 - 1999-05-29

Dataset Description

Small scale surface drifters

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Updated: August 2, 2004, gfh

Methods & Sampling

Georges Bank GPS/ARGOS/VHF drifter data

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Data Files

File
nmfs_drift.csv (Comma Separated Values (.csv), 2.05 MB) MD5:661f7b94afe8a56afd5508cd71bcd423 Primary data file for dataset ID 2430

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Parameters

Parameter	Description	Units
year	year (GMT)	
cruise_id	Cruise identification (e.g. OC301 = R/V Oceanus cruise number 301)	dimensionless
cast	cast number	dimensionless
yrday0_gmt	GMT year-day starting with Jan 1 as year-day 0	decimal year-day
lon	longitude, negative = west	decimal degrees
lat	latitude, negative = south	decimal degrees
ss1temp	sea surface temperature at one meter	degrees C

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Instruments

Dataset-specific Instrument Name	Drifter Buoy
Generic Instrument Name	Drifter Buoy
Dataset-specific Description	Drifter buoy to include the Beardsley Drifter (BDFT)
Generic Instrument Description	Drifting buoys are free drifting platforms with a float or buoy that keep the drifter at the surface and underwater sails or socks that catch the current. These instruments sit at the surface of the ocean and are transported via near-surface ocean currents. They are not fixed to the ocean bottom, therefore they "drift" with the currents. For this reason, these instruments are referred to as drifters, or drifting buoys. The surface float contains sensors that measure different parameters, such as sea surface temperature, barometric pressure, salinity, wave height, etc. Data collected from these sensors are transmitted to satellites passing overhead, which are then relayed to land-based data centers. definition sources: https://mmisw.org/ont/ioos/platform/drifting_buoy and https://www.aoml.noaa.gov/phod/gdp/faq.php#drifter1

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Deployments

AL9805

Website	https://www.bco-dmo.org/deployment/57383
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9805/AL9805.html
Start Date	1998-05-04
End Date	1998-05-08
Description	process **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

EL9904

Website	https://www.bco-dmo.org/deployment/57394
Platform	R/V Edwin Link
Report	http://globec.whoi.edu/globec-dir/reports/el9904/el9904.html
Start Date	1999-04-14
End Date	1999-04-28
Description	process **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

EL9905

Website	https://www.bco-dmo.org/deployment/57395
Platform	R/V Edwin Link
Report	http://globec.whoi.edu/globec-dir/reports/el9905/el9905new.html
Start Date	1999-05-10
End Date	1999-05-29
Description	process **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

EN322

Website	https://www.bco-dmo.org/deployment/57429
Platform	R/V Endeavor
Start Date	1999-04-17
End Date	1999-05-02
Description	process **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

EN323

Website	https://www.bco-dmo.org/deployment/57430
Platform	R/V Endeavor
Report	http://globec.whoi.edu/globec-dir/reports/en323/globecnew.html
Start Date	1999-05-05
End Date	1999-05-12
Description	process **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

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** Georges Bank GPS/ARGOS/VHF drifter data

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** Georges Bank GPS/ARGOS/VHF drifter data

SJ9503

Website	https://www.bco-dmo.org/deployment/57482
Platform	R/V Seward Johnson
Start Date	1995-03-14
End Date	1995-03-24
Description	process larvae **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

SJ9505

Website	https://www.bco-dmo.org/deployment/57484
Platform	R/V Seward Johnson
Report	http://globec.whoi.edu/globec-dir/reports/sj9505/sj9505.html
Start Date	1995-04-07
End Date	1995-04-21
Description	Process cruise looking for cod and haddock larvae. **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

SJ9507

Website	https://www.bco-dmo.org/deployment/57486
Platform	R/V Seward Johnson
Report	http://globec.whoi.edu/globec-dir/reports/sj9507/SJ9507.pdf
Start Date	1995-05-08
End Date	1995-05-26
Description	process larvae **Methods & Sampling** Georges Bank GPS/ARGOS/VHF drifter data

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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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