

Ship data collected along the track during R/V Edwin Link cruises EL9904 and EL9905 in the Gulf of Maine and Georges Bank as part of the U.S. GLOBEC program in 1999

Website: <https://www.bco-dmo.org/dataset/2413>

Data Type: Cruise Results

Version: 1

Version Date: 2005-09-30

Project

» [U.S. GLOBEC Georges Bank](#) (GB)

Program

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

Contributors	Affiliation	Role
Fisher, Karen	Cornell University (Cornell)	Co-Principal Investigator
Manning, James P.	Northeast Fisheries Science Center - Woods Hole (NOAA NEFSC)	Co-Principal Investigator
Smith, Peter C.	Bedford Institute of Oceanography (BIO)	Co-Principal Investigator
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Abstract

Ship data collected along the track during R/V Edwin Link cruises EL9904 and EL9905 in the Gulf of Maine and Georges Bank as part of the U.S. GLOBEC program in 1999.

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Coverage

Spatial Extent: N:41.5265 E:-66.8775 S:40.6253 W:-70.6755

Temporal Extent: 1999 - 1999

Dataset Description

Edwin Link Cruises: 9904 and 9905 Shipboard meteorology and sea surface measurements along the ship's track

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Note: Karen Fisher (Cornell Univ.) played the major role in processing our EDWIN LINK alongtrack data. I have simply modified and executed her Perl routines to comply with GLOBEC standards. **Very little cleaning of the raw data was conducted (Jan 2000 Jim Manning).**

Last modified: Sept 30, 2005; gfh w/ input from J.Manning

Methods & Sampling

GLOBEC Georges Bank Cruises EDWIN LINK Shipboard Sensor Data ~ 1 minute intervals.

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Data Files

File
el_shipdata.csv (Comma Separated Values (.csv), 4.65 MB) MD5:529f7aafe2b6287c31b6cf363420ab94
Primary data file for dataset ID 2413

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Parameters

Parameter	Description	Units
year	year	
ship	ship name as a code ,i.e. el = Edwin Link	
cruiseid	cruise identification	
yrday0_gmt	yearday/time, UTC, where yearday 0.5 = Jan 1 at 1200 hrs	decimal yearday
lat	latitude, negative = South	decimal degrees
lon	longitude, negative = West	decimal degrees
wind_vel_u	eastward component of wind velocity, oceanographic convention	meters/second
wind_vel_v	northward component of wind velocity, oceanographic convention	meters/second
temp_air	air temperature	degrees C
press_bar	barometric pressure	millibars
temp_ss	sea surface temperature @ 5meters	degrees C
sal	sea surface salinity	PSU
flvolt	fluorescence	volts
speed_f_b	forward ship speed with reference to sea floor	unknown
humidity	relative humidity	per cent
radiation_s	shortwave radiation	unknown
radiation_l	longwave radiation	unknown

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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

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 GLOBEC Georges Bank Cruises EDWIN LINK Shipboard Sensor Data ~ 1 minute intervals.

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 GLOBEC Georges Bank Cruises EDWIN LINK Shipboard Sensor Data ~ 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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