

Fish eggs collected in Bongo nets from R/V Albatross IV, R/V Endeavor, and R/V Oceanus during U.S. GLOBEC broadscale cruises in the Gulf of Maine and Georges Bank from 1995-1999 (GB project)

Website: <https://www.bco-dmo.org/dataset/2322>

Data Type: Cruise Results

Version: 1

Version Date: 2005-07-08

Project

» [U.S. GLOBEC Georges Bank](#) (GB)

Program

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

Contributors	Affiliation	Role
Sibunka, John	National Oceanic and Atmospheric Administration (NOAA)	Principal Investigator
Allison, Dicky	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

Abstract

Fish eggs collected in Bongo nets from R/V Albatross IV, R/V Endeavor, and R/V Oceanus during U.S. GLOBEC broadscale cruises in the Gulf of Maine and Georges Bank from 1995-1999

Table of Contents

- [Coverage](#)
 - [Dataset Description](#)
 - [Methods & Sampling](#)
 - [Data Files](#)
 - [Parameters](#)
 - [Instruments](#)
 - [Deployments](#)
 - [Project Information](#)
 - [Program Information](#)
 - [Funding](#)
-

Coverage

Spatial Extent: N:42.468 E:-65.657 S:40.285 W:-69.142

Temporal Extent: 1995-02-10 - 1999-06-14

Dataset Description

Georges Bank Fish Egg Data from Bongo Nets

¹Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.

²Stages 6, 7, 8, & 9 are used only for Gadidae eggs.

Any questions, contact:

John Sibunka
National Marine Fisheries Service, NEFC

Sandy Hook Marine Lab.
74 Magruder Road
Highlands, NJ 07732

voice: (732) 872-3064
fax: (732) 872-3088
John.Sibunka@noaa.gov

updated July 8, 2005, G.Heimerdinger

Methods & Sampling

Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.

[[table of contents](#) | [back to top](#)]

Data Files

File
fisheggs_rs.csv (Comma Separated Values (.csv), 690.49 KB) MD5:fc0a9f8a9026a5949c0be81a723f4f7c Primary data file for dataset ID 2322

[[table of contents](#) | [back to top](#)]

Parameters

Parameter	Description	Units
cruiseid	cruise identification, e.g. EN330, for Endeavor cruise 330	
year	four digit year, local time	
inst	instrument identifier (Bongo)	
station	consecutive station number	
station_std	standard station number	
tow	bongo plankton tow station number	
lat	latitude, at start of tow, negative = South	decimal degrees
lon	longitude, at start of tow, negative = West	decimal degrees
month_local	month of year, local time, (01-12)	
day_local	day of month, local time, (01-31)	
time_local	time at start of tow, local time	hours/minutes
depth_w	depth of water at start of tow	meters
depth_tow_max	maximum depth of the tow	meters
net	Net identifier	
haul_factor_std	Standard Haul Factor1	
taxon	Taxonomic name of larval fish species	
num_caught	Total number of fish eggs in the net	
num_st1	Number of eggs caught in the first developmental stage; from just fertilized until blastopore almost closed.	
num_st2	Number of eggs caught in development stage 2 from blastopore closed until tip of tail bud almost free from yolk surface.	
num_st3	Number of eggs caught in development stage 3 from just fertilized until blastopore almost closed.	
num_st4	Dead at capture, deteriorated.	
num_st5	Abnormal development, not assignable to a normal stage.	
num_st6	2(Substage of 3) from blastopore closed until tail free, but not yet twisted and flexed.	
num_st7	2(Substage of 3) from tail twisted and flexed, until embryo extends	
num_st8	2(Substage of 3) Embryo extends > # and rence.	
num_st9	2(Substage of 3) Embryo extends > full circle around egg circumference.	

[[table of contents](#) | [back to top](#)]

Instruments

Dataset-specific Instrument Name	Bongo Nets
Generic Instrument Name	Bongo Net
Dataset-specific Description	60 cm diameter Bongo nets (0.335 millimeter mesh)
Generic Instrument Description	A Bongo Net consists of paired plankton nets, typically with a 60 cm diameter mouth opening and varying mesh sizes, 10 to 1000 micron. The Bongo Frame was designed by the National Marine Fisheries Service for use in the MARMAP program. It consists of two cylindrical collars connected with a yoke so that replicate samples are collected at the same time. Variations in models are designed for either vertical hauls (OI-2500 = NMFS Païrovet-Style, MARMAP Bongo, CalVET) or both oblique and vertical hauls (Aquatic Research). The OI-1200 has an opening and closing mechanism that allows discrete "known-depth" sampling. This model is large enough to filter water at the rate of 47.5 m ³ /minute when towing at a speed of two knots. More information: Ocean Instruments, Aquatic Research, Sea-Gear

[[table of contents](#) | [back to top](#)]

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 Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m ² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.

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 Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m ² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.

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	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

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	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

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	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9701

Website	https://www.bco-dmo.org/deployment/57378
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9701/craI9701.htm
Start Date	1997-01-13
End Date	1997-01-20
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9705

Website	https://www.bco-dmo.org/deployment/57379
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9705/al9705.html
Start Date	1997-05-19
End Date	1997-05-27
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9707

Website	https://www.bco-dmo.org/deployment/57380
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9707/al9707.html
Start Date	1997-06-18
End Date	1997-06-28
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9801

Website	https://www.bco-dmo.org/deployment/57382
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9801/al9801.html
Start Date	1998-01-07
End Date	1998-01-19
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9806

Website	https://www.bco-dmo.org/deployment/57384
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9806/al9806.html
Start Date	1998-05-13
End Date	1998-05-22
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9808

Website	https://www.bco-dmo.org/deployment/57385
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9808/al9808.html
Start Date	1998-06-16
End Date	1998-06-26
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9901

Website	https://www.bco-dmo.org/deployment/57386
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9901/al9901.html
Start Date	1999-01-12
End Date	1999-01-24
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9904

Website	https://www.bco-dmo.org/deployment/57387
Platform	R/V Albatross IV
Start Date	1999-05-19
End Date	1999-05-27
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

AL9906

Website	https://www.bco-dmo.org/deployment/57388
Platform	R/V Albatross IV
Report	http://globec.whoi.edu/globec-dir/reports/al9906/al9906rpt.html
Start Date	1999-06-14
End Date	1999-06-24
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

EN261

Website	https://www.bco-dmo.org/deployment/57401
Platform	R/V Endeavor
Start Date	1995-02-10
End Date	1995-02-20
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

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	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

EN265

Website	https://www.bco-dmo.org/deployment/57405
Platform	R/V Endeavor
Start Date	1995-04-11
End Date	1995-04-22
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

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	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

EN278

Website	https://www.bco-dmo.org/deployment/57414
Platform	R/V Endeavor
Start Date	1996-02-13
End Date	1996-02-25
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

EN282

Website	https://www.bco-dmo.org/deployment/57415
Platform	R/V Endeavor
Start Date	1996-04-08
End Date	1996-04-20
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

EN320

Website	https://www.bco-dmo.org/deployment/57427
Platform	R/V Endeavor
Report	http://globec.whoi.edu/globec-dir/reports/en320new/en320mda.htm
Start Date	1999-03-10
End Date	1999-03-23
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC275

Website	https://www.bco-dmo.org/deployment/57440
Platform	R/V Oceanus
Start Date	1996-03-11
End Date	1996-03-22
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC298

Website	https://www.bco-dmo.org/deployment/57444
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc298/cruisereport.html
Start Date	1997-02-11
End Date	1997-02-23
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC300

Website	https://www.bco-dmo.org/deployment/57446
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc300/oc300rpt.mr7.html
Start Date	1997-03-16
End Date	1997-03-28
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC302

Website	https://www.bco-dmo.org/deployment/57448
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc302/oc302.html
Start Date	1997-04-22
End Date	1997-05-02
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC317

Website	https://www.bco-dmo.org/deployment/57451
Platform	R/V Oceanus
Start Date	1998-02-06
End Date	1998-02-19
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC319

Website	https://www.bco-dmo.org/deployment/57452
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc319/oc319new/oc319rpt.8april98.htm
Start Date	1998-03-15
End Date	1998-03-27
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC322

Website	https://www.bco-dmo.org/deployment/57454
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc322/oc322.html
Start Date	1998-04-15
End Date	1998-04-27
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC336

Website	https://www.bco-dmo.org/deployment/57459
Platform	R/V Oceanus
Report	http://globec.whoi.edu/globec-dir/reports/oc336/oc336cruise-report.html
Start Date	1999-02-11
End Date	1999-02-23
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

OC341

Website	https://www.bco-dmo.org/deployment/57464
Platform	R/V Oceanus
Report	http://globec.who.edu/globec-dir/reports/oc341/reptoc341.html
Start Date	1999-04-16
End Date	1999-04-27
Description	<p>broad-scale</p> <p>Methods & Sampling Standard Haul Factor: numerical factor (multiplier) used to standardize catches to be expressed as number caught per 10m² of sea surface area. Most haul factors range from 1 to 10. The Standard Haul Factor has not been applied to the data reported here.</p>

[[table of contents](#) | [back to top](#)]

Project Information

U.S. GLOBEC Georges Bank (GB)

Website: 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.

[[table of contents](#) | [back to top](#)]

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).

[[table of contents](#) | [back to top](#)]

Funding

Funding Source	Award
National Science Foundation (NSF)	unknown GB NSF
National Oceanic and Atmospheric Administration (NOAA)	unknown GB NOAA

[[table of contents](#) | [back to top](#)]