

Zooplankton length data from the 10m2 MOCNESS from R/V Endeavor, R/V Albatross IV, and R/V Oceanusbroadscale cruises in the Gulf of Maine and Georges Bank from 1995-1999 (GB project)

Website: <https://www.bco-dmo.org/dataset/2327>

Data Type: Cruise Results

Version: 1

Version Date: 2005-12-27

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

Zooplankton length data from the 10m2 MOCNESS from R/V Endeavor, R/V Albatross IV, and R/V Oceanusbroadscale cruises in the Gulf of Maine and Georges Bank from 1995-1999

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Coverage

Spatial Extent: N:42.3 E:-65.848 S:40.45 W:-68.99

Temporal Extent: 1995-02 - 1999-06

Dataset Description

Organism lengths, samples obtained by the 10 m² MOCNESS system

Note: See companion file containing abundance and additional tow info. moc10data zooplankton abundance (<https://www.bco-dmo.org/dataset/2327>)

Any questions, contact: *Erich Horgan Woods Hole Oceanographic Institution Woods Hole, MA 02543 voice: (508) 289-3207 fax: (508) 457-2169*

Acquisition Description

Moc 10 zooplankton length data,

Processing Description

- The catch from each net was subsampled and all animals in the subsample were counted.
- Due to the sheer volume of data, only those animals found were represented in these on-line data. *i.e.*, no animals with zero abundances were listed.
- The precision variation in the latitude and longitude numbers is as reported.
- Not all nets for all tows are represented here. Some nets came back empty.

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Parameters

Parameter	Description	Units
cruiseid	cruise identification	
year	year, 4 digit year	
month_local	month of year, local time, (01-12)	
station_std	standard station number	
lat	latitude, negative = South	DD.D
lon	longitude, negative = West	DDD.D
net	net number, one of 4 nets (1-4)	
species	species name	
phylum	classification by phylum	
length	length (longest dimension) of individual animal	mm

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Instruments

Dataset-specific Instrument Name	MOCNESS10
Generic Instrument Name	MOCNESS10
Dataset-specific Description	MOCNESS 10 meter square nets (3 millimeter mesh).
Generic Instrument Description	The Multiple Opening/Closing Net and Environmental Sensing System (MOCNESS) is based on the Tucker Trawl principle (Tucker, 1951). The MOCNESS-10 (with 10 m ² nets) carries 6 nets of 3.0-mm circular mesh which are opened and closed sequentially by commands through conducting cable from the surface (Wiebe et al., 1976). In this system, "the underwater unit sends a data frame, comprising temperature, depth, conductivity, net-frame angle, flow count, time, number of open net, and net opening/closing, to the deck unit in a compressed hexadecimal format every 2 seconds and from the deck unit to a microcomputer every 4 seconds" (Wiebe et al., 1985).

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Deployments

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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

EN263

Website	https://www.bco-dmo.org/deployment/57403
Platform	R/V Endeavor
Report	http://globec.who.edu/globec-dir/reports/en263/EN263.pdf
Start Date	1995-03-13
End Date	1995-03-24
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9505

Website	https://www.bco-dmo.org/deployment/57371
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9505/al9505rot.pdf
Start Date	1995-05-09
End Date	1995-05-18
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9506

Website	https://www.bco-dmo.org/deployment/57372
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9506/al9506new.html
Start Date	1995-06-05
End Date	1995-06-15
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9508

Website	https://www.bco-dmo.org/deployment/57373
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9508/a9508rp2.HTM
Start Date	1995-07-10
End Date	1995-07-20
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

EN276

Website	https://www.bco-dmo.org/deployment/57413
Platform	R/V Endeavor
Report	http://globec.who.edu/globec-dir/reports/en276/EN276.pdf
Start Date	1996-01-10
End Date	1996-01-22
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9605

Website	https://www.bco-dmo.org/deployment/57375
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9605/al9605.html
Start Date	1996-05-06
End Date	1996-05-17
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9607

Website	https://www.bco-dmo.org/deployment/57376
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9607/AL9607.pdf
Start Date	1996-06-03
End Date	1996-06-13
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9701

Website	https://www.bco-dmo.org/deployment/57378
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9701/cral9701.htm
Start Date	1997-01-13
End Date	1997-01-20
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

OC298

Website	https://www.bco-dmo.org/deployment/57444
Platform	R/V Oceanus
Report	http://globec.who.edu/globec-dir/reports/oc298/cruisereport.html
Start Date	1997-02-11
End Date	1997-02-23
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

OC300

Website	https://www.bco-dmo.org/deployment/57446
Platform	R/V Oceanus
Report	http://globec.who.edu/globec-dir/reports/oc300/oc300rpt.mr7.html
Start Date	1997-03-16
End Date	1997-03-28
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

OC302

Website	https://www.bco-dmo.org/deployment/57448
Platform	R/V Oceanus
Report	http://globec.who.edu/globec-dir/reports/oc302/oce302.html
Start Date	1997-04-22
End Date	1997-05-02
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9705

Website	https://www.bco-dmo.org/deployment/57379
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9705/al9705.html
Start Date	1997-05-19
End Date	1997-05-27
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9707

Website	https://www.bco-dmo.org/deployment/57380
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9707/al9707.html
Start Date	1997-06-18
End Date	1997-06-28
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9801

Website	https://www.bco-dmo.org/deployment/57382
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9801/al9801.html
Start Date	1998-01-07
End Date	1998-01-19
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

OC319

Website	https://www.bco-dmo.org/deployment/57452
Platform	R/V Oceanus
Report	http://globec.who.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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

OC322

Website	https://www.bco-dmo.org/deployment/57454
Platform	R/V Oceanus
Report	http://globec.who.edu/globec-dir/reports/oc322/oc322.html
Start Date	1998-04-15
End Date	1998-04-27
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9806

Website	https://www.bco-dmo.org/deployment/57384
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9806/al9806.html
Start Date	1998-05-13
End Date	1998-05-22
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9808

Website	https://www.bco-dmo.org/deployment/57385
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9808/al9808.html
Start Date	1998-06-16
End Date	1998-06-26
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9901

Website	https://www.bco-dmo.org/deployment/57386
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9901/al9901.html
Start Date	1999-01-12
End Date	1999-01-24
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

OC336

Website	https://www.bco-dmo.org/deployment/57459
Platform	R/V Oceanus
Report	http://globec.who.edu/globec-dir/reports/oc336/oc336cruise-report.html
Start Date	1999-02-11
End Date	1999-02-23
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

EN320

Website	https://www.bco-dmo.org/deployment/57427
Platform	R/V Endeavor
Report	http://globec.who.edu/globec-dir/reports/en320new/en320mda.htm
Start Date	1999-03-10
End Date	1999-03-23
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</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>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

AL9906

Website	https://www.bco-dmo.org/deployment/57388
Platform	R/V Albatross IV
Report	http://globec.who.edu/globec-dir/reports/al9906/al9906rpt.html
Start Date	1999-06-14
End Date	1999-06-24
Description	<p>broad-scale</p> <p>Acquisition Description Moc 10 zooplankton length data,</p> <p>Processing Description The catch from each net was subsampled and all animals in the subsample were counted. Due to the shear volume of data, only those animals found were represented in these on-line data. i.e., no animals with zero abundances were listed. The precision variation in the latitude and longitude numbers is as reported. Not all nets for all tows are represented here. Some nets came back empty.</p>

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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.

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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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