

Zooplankton counts for the Southeast Alaska Coastal Monitoring from R/V John N. Cobb SECM multiple cruises in the Gulf of Alaska, Coastal Southeast Alaska from 1997-2006 (NEP project)

Website: <https://www.bco-dmo.org/dataset/3301>

Version: 2010-02-18

Project

» [U.S. GLOBEC Northeast Pacific](#) (NEP)

Program

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

Contributors	Affiliation	Role
Fergusson, Emily A.	National Oceanic and Atmospheric Administration - Alaska Fisheries Science Center (NOAA-AFSC-Auke)	Co-Chief Scientist, Data Manager
Orsi, Joseph A	National Oceanic and Atmospheric Administration - Alaska Fisheries Science Center (NOAA-AFSC-Auke)	Co-Chief Scientist, Lead Principal Investigator
Sturdevant, Molly V.	National Oceanic and Atmospheric Administration - Alaska Fisheries Science Center (NOAA-AFSC-Auke)	Co-Chief Scientist
Wertheimer, Alex C.	National Oceanic and Atmospheric Administration - Alaska Fisheries Science Center (NOAA-AFSC-Auke)	Lead Principal Investigator, Principal Investigator
Copley, Nancy	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

Table of Contents

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

Dataset Description

Zooplankton counts from net tows taken in conjunction with juvenile salmon studies in the Gulf of Alaska from 1997-2006 by the Southeast Coastal Monitoring Project. Measurements include settling volume, displacement volume, composition of taxa.

important links:

http://www.afsc.noaa.gov/ABL/MSI/msi_secm.htm

Also see related SECM datasets:

[station data](#)

[nutrients](#)

[ctd](#)

[fish catch data](#)

[fish length and stomach contents](#)

Methods & Sampling

Surface (bucket) and 20-m (Niskin bottle) water samples were taken once at each station for later nutrient and chlorophyll analysis.

One shallow vertical haul (20-m) was made at each station (except three at ABM) with a 50-cm, 243-micron mesh NORPAC net. One deep vertical haul (to 200 m or within 10 m of bottom) was made at ABM and the Icy Point stations with a 57-cm, 202-micron mesh WP-2 net.

One double oblique bongo haul was made at stations along the Icy Strait and Lower Clarence Strait transects and at ABM to a depth of 200 m or within 20 m of the bottom, using a 60-cm diameter tandem frame with 505-micron and 333-micron mesh nets. A VEMCO ML-08-TDR time-depth recorder was used with the oblique bongo hauls to record the maximum sampling depth of each haul. General Oceanics model 2031 or Rigosha flow meters were placed inside the bongo and deep conical nets for calculation of filtered water volumes.

Zooplankton sampling: Zooplankton samples were concentrated and preserved in a 5% formalin-seawater solution. Zooplankton settled volumes (ZSV, ml) and total settled volumes (TSV, ml) of each 20-m vertical haul were measured after settling the samples for a 24-hr period in Imhof cones. Displacement volumes (DV, ml) of zooplankton were measured for bongo net samples (333-micron and 505-micron mesh). Samples were brought to a constant volume (500 ml) by adding water, and then were sieved through 243-micron mesh to separate the zooplankton from the liquid. The volume of decanted liquid was measured and subtracted from the sample starting volume to yield zooplankton DV.

Station Codes:

station	locality
ABM	Auke Bay Monitor
CS A-D	Cross Sound
ED A-D	Cape Edward
FPR	False Point Retreat
IP A-D	Icy Point
IS A-D	Icy Strait
LC A-D	Lower Clarence
LFC	Lower Favorite Channel
MC A-D	Middle Clarence
TK G-I	Taku Inlet transect
UC A-D	Upper Chatham Strait

Data Processing Description

Detailed zooplankton species composition was determined microscopically from subsamples obtained using a Folsom or Motoda splitter. Density was then estimated by multiplying the count in the subsample by the split fraction and dividing the expanded count by the volume filtered. Percent total composition was summarized by major taxa for region, habitat, and month. Species were pooled into taxonomic groups including small calanoid copepods (< 2.5 mm TL), large calanoid copepods (> 2.5 mm TL), barnacle larvae, euphausiids (principally larval and juvenile stages), oikopleurans (Larvacea), decapod (crab) larvae, amphipods (hyperiid and gammarid), gastropods (primarily pteropods), chaetognaths, and combined minor taxa.

Use constraints: User must read and fully comprehend the metadata prior to use. User must acknowledge the Originator when using the data set as a source. User must share data products developed using the source data set with the Originator. Data should not be used beyond the limits fo the source scale.

01 Oct 2012 - BCO-DMO separated original 'taxon' column into taxon, species, stage, and common_name.

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

Data Files

File**secm_zoop.csv**(Comma Separated Values (.csv), 5.14 MB)

MD5:5b8c5bfcaaddc04d69900e7f766f020e

Primary data file for dataset ID 3301

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

Parameters

Parameter	Description	Units
bottle	sample bottle number	integer
comments_sample	comments pertaining to the haul or bottle	text
comments_taxon	comments pertaining to the zooplankton	text
count	number of individuals counted in sample fraction	integer
day_local	day of month	integer
depth	maximum depth of net haul (off TDR if available; otherwise calculated from wire out)	meters
disp_vol_zoop	displacement volume	milliliters
fraction	split fraction	fraction
fraction_dec	split fraction as decimal	decimal number
haul_id	haul number	integer
inst	zooplankton net type (NORPAC; WP-2; BONGO)	text
lat	latitude of station, North is positive.	decimal degrees
lon	longitude of station; East is positive.	decimal degrees
mesh	zooplankton net mesh (243; 202; 333; 505)	microns
month_local	month of year	1-12
station	station code	text
sv_phyto	phytoplankton settled volume	milliliters
sv_total	total settled volume of sample	milliliters
sv_zoop	zooplankton settled volume	milliliters
time_local	time of day	local time
year	year of sampling	YYYY
yday_local	local day and decimal time	as 326.5 for the 326th day of the year
region	Northern (NSE) or Southern (SSE) Southeast Alaska.	text
depth_w	depth of water at this site	meters
lat_haul	latitude at start of haul; North is positive	decimal degrees
lon_haul	longitude at start of haul, W is negative	decimal degrees
taxon	High-level taxonomic identification.	text
cruise_id	cruise identification: jc=John Cobb; next two numbers = year; last 2 numbers = cruise # ('x' means cruise # is not known)	text
species	Species name (or genus and species).	text
stage	Stage/sex/size.	text
common_name	Common name of the organism.	text

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

Instruments

Dataset-specific Instrument Name	Bongo Nets
Generic Instrument Name	Bongo Net
Dataset-specific Description	60-cm diameter tandem frame with 505- μ m and 333- μ m mesh nets. A VEMCO ML-08-TDR time-depth recorder was used with the oblique bongo hauls to record the maximum sampling depth of each haul. General Oceanics model 2031 or Rigosha flow meters were placed inside the bongo and deep conical nets for calculation of filtered water volumes.
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 Pairovet-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

Dataset-specific Instrument Name	CTD Seabird 19
Generic Instrument Name	CTD Sea-Bird SEACAT 19
Dataset-specific Description	The CTD data were collected with a Sea-Bird1 SBE 19 Seacat profiler to 200 m or within 10 m of the bottom.
Generic Instrument Description	The Sea-Bird SBE 19 SEACAT Recorder measures conductivity, temperature, and pressure (depth). The SEACAT is self-powered and self-contained and can be deployed in profiling or moored mode. The SBE 19 SEACAT was replaced in 2001 by the 19plus. more information from Sea-Bird Electronics

Dataset-specific Instrument Name	Niskin Bottle
Generic Instrument Name	Niskin bottle
Generic Instrument Description	A Niskin bottle (a next generation water sampler based on the Nansen bottle) is a cylindrical, non-metallic water collection device with stoppers at both ends. The bottles can be attached individually on a hydrowire or deployed in 12, 24, or 36 bottle Rosette systems mounted on a frame and combined with a CTD. Niskin bottles are used to collect discrete water samples for a range of measurements including pigments, nutrients, plankton, etc.

Dataset-specific Instrument Name	Radiometer
Generic Instrument Name	Radiometer
Dataset-specific Description	To quantify ambient light levels, light intensities ($W \cdot m^{-2}$) were recorded at each station with a Li-Cor Model 189 radiometer.
Generic Instrument Description	Radiometer is a generic term for a range of instruments used to measure electromagnetic radiation (radiance and irradiance) in the atmosphere or the water column. For example, this instrument category includes free-fall spectral radiometer (SPMR/SMSR System, Satlantic, Inc), profiling or deck cosine PAR units (PUV-500 and 510, Biospherical Instruments, Inc). This is a generic term used when specific type, make and model were not specified.

Dataset-specific Instrument Name	Thermosalinograph
Generic Instrument Name	Thermosalinograph
Dataset-specific Description	Surface (3-m) temperature and salinity data were collected at 1-minute intervals with an onboard thermosalinograph (Sea-Bird SBE 21).
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.

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

Deployments

SECM

Website	https://www.bco-dmo.org/deployment/58037
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/
Start Date	1997-05-20
End Date	2006-08-29
Description	Periodic salmon, zooplankton, nutrient sampling over a 10 year period. No cruise numbers are provided. The John N. Cobb is a 29-m research vessel with a main engine of 325 horsepower and a cruising speed of 10 knots.

jc0005

Website	https://www.bco-dmo.org/deployment/58068
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0005cr.pdf
Start Date	2000-05-19
End Date	2000-05-25
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0009

Website	https://www.bco-dmo.org/deployment/58069
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0009cr.pdf
Start Date	2000-06-26
End Date	2000-07-02
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0012

Website	https://www.bco-dmo.org/deployment/58070
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0012cr.pdf
Start Date	2000-07-19
End Date	2000-07-25
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0016

Website	https://www.bco-dmo.org/deployment/58071
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0016cr.pdf
Start Date	2000-08-25
End Date	2000-08-31
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0018

Website	https://www.bco-dmo.org/deployment/58072
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0018cr.pdf
Start Date	2000-09-25
End Date	2000-10-01
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0105

Website	https://www.bco-dmo.org/deployment/58073
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0105cr.pdf
Start Date	2001-05-19
End Date	2001-05-25
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0109

Website	https://www.bco-dmo.org/deployment/58074
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0109cr.pdf
Start Date	2001-06-26
End Date	2001-07-02
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0113

Website	https://www.bco-dmo.org/deployment/58075
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0113cr.pdf
Start Date	2001-07-27
End Date	2001-08-02
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0116

Website	https://www.bco-dmo.org/deployment/58076
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0116cr.pdf
Start Date	2001-08-26
End Date	2001-09-01
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0118

Website	https://www.bco-dmo.org/deployment/58077
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0118cr.pdf
Start Date	2001-09-26
End Date	2001-10-02
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0205

Website	https://www.bco-dmo.org/deployment/58078
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0205cr.pdf
Start Date	2002-05-21
End Date	2002-05-24
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0209

Website	https://www.bco-dmo.org/deployment/58079
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0209cr.pdf
Start Date	2002-06-22
End Date	2002-06-27
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0213

Website	https://www.bco-dmo.org/deployment/58080
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0213cr.pdf
Start Date	2002-07-23
End Date	2002-07-31
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0216

Website	https://www.bco-dmo.org/deployment/58081
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0216cr.pdf
Start Date	2002-08-23
End Date	2002-08-30
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0302

Website	https://www.bco-dmo.org/deployment/58082
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0302cr.pdf
Start Date	2003-05-20
End Date	2003-05-25
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0305

Website	https://www.bco-dmo.org/deployment/58083
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0305cr.pdf
Start Date	2003-06-21
End Date	2003-06-30
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0308

Website	https://www.bco-dmo.org/deployment/58084
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0308cr.pdf
Start Date	2003-07-22
End Date	2003-07-29
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0310

Website	https://www.bco-dmo.org/deployment/58085
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0310cr.pdf
Start Date	2003-08-08
End Date	2003-08-11
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0312

Website	https://www.bco-dmo.org/deployment/58086
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0312cr.pdf
Start Date	2003-08-21
End Date	2003-08-27
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0406

Website	https://www.bco-dmo.org/deployment/58087
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0406cr.pdf
Start Date	2004-05-18
End Date	2004-05-23
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0408

Website	https://www.bco-dmo.org/deployment/58088
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0408cr.pdf
Start Date	2004-06-20
End Date	2004-06-28
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0411

Website	https://www.bco-dmo.org/deployment/58089
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0411cr.pdf
Start Date	2004-07-23
End Date	2004-07-31
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0414

Website	https://www.bco-dmo.org/deployment/58090
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0414cr.pdf
Start Date	2004-08-21
End Date	2004-08-28
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0506

Website	https://www.bco-dmo.org/deployment/58091
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0506cr.pdf
Start Date	2005-05-22
End Date	2005-05-25
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0508

Website	https://www.bco-dmo.org/deployment/58092
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0508cr.pdf
Start Date	2005-06-20
End Date	2005-07-03
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0510

Website	https://www.bco-dmo.org/deployment/58093
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0510cr.pdf
Start Date	2005-07-20
End Date	2005-08-01
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0512

Website	https://www.bco-dmo.org/deployment/58094
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0512cr.pdf
Start Date	2005-08-23
End Date	2005-08-29
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0608

Website	https://www.bco-dmo.org/deployment/58095
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0608cr.pdf
Start Date	2006-05-22
End Date	2006-05-25
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0611

Website	https://www.bco-dmo.org/deployment/58096
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0611cr.pdf
Start Date	2006-06-21
End Date	2006-07-02
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0613

Website	https://www.bco-dmo.org/deployment/58097
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0613cr.pdf
Start Date	2006-07-21
End Date	2006-07-31
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0616

Website	https://www.bco-dmo.org/deployment/58098
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0616cr.pdf
Start Date	2006-08-19
End Date	2006-08-29
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9706

Website	https://www.bco-dmo.org/deployment/58099
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9706cr.pdf
Start Date	1997-05-20
End Date	1997-05-26
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9709

Website	https://www.bco-dmo.org/deployment/58100
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9709cr.pdf
Start Date	1997-06-22
End Date	1997-06-28
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9711

Website	https://www.bco-dmo.org/deployment/58101
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9711cr.pdf
Start Date	1997-07-18
End Date	1997-07-27
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9714

Website	https://www.bco-dmo.org/deployment/58102
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9714cr.pdf
Start Date	1997-08-22
End Date	1997-08-28
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9717

Website	https://www.bco-dmo.org/deployment/58103
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9717cr.pdf
Start Date	1997-10-02
End Date	1997-10-07
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9805

Website	https://www.bco-dmo.org/deployment/58104
Platform	R/V John N. Cobb
Start Date	1998-05-14
End Date	1998-05-18
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9808

Website	https://www.bco-dmo.org/deployment/58105
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9808cr.pdf
Start Date	1998-06-24
End Date	1998-07-01
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9811

Website	https://www.bco-dmo.org/deployment/58106
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9811cr.pdf
Start Date	1998-07-20
End Date	1998-07-28
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9815

Website	https://www.bco-dmo.org/deployment/58107
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9815cr.pdf
Start Date	1998-08-24
End Date	1998-08-30
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9818

Website	https://www.bco-dmo.org/deployment/58108
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9818cr.pdf
Start Date	1998-10-05
End Date	1998-10-09
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9906

Website	https://www.bco-dmo.org/deployment/58109
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9906cr.pdf
Start Date	1999-05-20
End Date	1999-05-25
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9909

Website	https://www.bco-dmo.org/deployment/58110
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9909cr.pdf
Start Date	1999-06-26
End Date	1999-07-01
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9912

Website	https://www.bco-dmo.org/deployment/58111
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9912cr.pdf
Start Date	1999-07-24
End Date	1999-07-30
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9915

Website	https://www.bco-dmo.org/deployment/58112
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9915cr.pdf
Start Date	1999-08-20
End Date	1999-08-26
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc9918

Website	https://www.bco-dmo.org/deployment/58113
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc9918cr.pdf
Start Date	1999-09-26
End Date	1999-10-02
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

jc0304b

Website	https://www.bco-dmo.org/deployment/58114
Platform	R/V John N. Cobb
Report	http://globec.whoi.edu/globec-dir/reports/secm/jc0304cr.pdf
Start Date	2003-06-12
End Date	2003-06-15
Description	Southeast Alaska Coastal Monitoring (SECM) cruise

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

Project Information

U.S. GLOBEC Northeast Pacific (NEP)

Website: <http://nepglobec.bco-dmo.org>

Coverage: Northeast Pacific Ocean, Gulf of Alaska

Program in a Nutshell

Goal: To understand the effects of climate variability and climate change on the distribution, abundance and production of marine animals (including commercially important living marine resources) in the eastern North Pacific. To embody this understanding in diagnostic and prognostic ecosystem models, capable of capturing the ecosystem response to major climatic fluctuations.

Approach: To study the effects of past and present climate variability on the population ecology and population dynamics of marine biota and living marine resources, and to use this information as a proxy for how the ecosystems of the eastern North Pacific may respond to future global climate change. The strong temporal variability in the physical and biological signals of the NEP will be used to examine the biophysical mechanisms through which zooplankton and salmon populations respond to physical forcing and biological interactions in the coastal regions of the two gyres. Annual and interannual variability will be studied directly through **long-term observations** and detailed **process studies**; variability at longer time scales will be examined through **retrospective analysis** of directly measured and proxy data. Coupled **biophysical models** of the ecosystems of these regions will be developed and tested using the process studies and data collected from the long-term observation programs, then further tested and improved by hindcasting selected retrospective data series.

[[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
NSF Division of Ocean Sciences (NSF OCE)	unknown NEP NSF OCE
National Oceanic and Atmospheric Administration (NOAA)	unknown NEP NOAA

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