

CTD data collected during CGOA Trawl cruises from R/V Pandalus PA0101, PA0102, PA0103, PA0104, PA0201, PA0202, PA0203, PA0301, PA0302, PA0303, PA0401, PA0402, PA0403 in the Northeast Pacific from 2001-2004 (NEP project)

Website: <https://www.bco-dmo.org/dataset/2922>

Data Type: Cruise Results

Version: 2

Version Date: 2021-06-08

Project

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

Program

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

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Dataset Description

CTD data from CGOA trawl cruises

Two related data objects:

[Trawl catch data](#)

[Fork length data from trawls](#)

From PI: All CTD Data were collected using a Seabird Seacat SBE 19 CTD, equipped with a WetStar fluorometer.

Additional information related to the events listed in these files can be queried from the GLOBEC event logs on file for each cruise.

Questions about these data should be directed to:

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Data Processing Description

BCO-DMO data manager processing notes:

* Version 2 (2021-06-08) replaces version 1 (2008-10-23). Character encoding converted to utf-8. A seabird headerline which was in the middle of the dataset as a data line was removed.

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Data Files

File
trawl_catch_ctd.csv (Comma Separated Values (.csv), 2.55 MB) MD5:b291617e0f9f7e8fadda875ba5ce5c42 Primary data file for dataset ID 2922

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Parameters

Parameter	Description	Units
cruiseid	Note that this group used non standard cruise names; this field uses the standard naming convention; ('cruise_alt' below is alternate name).	text
ship	Vessel that deployed the gear.	text
year	Year of the cruise.	YYYY
cruise_alt	Alternate name for cruise -- The UAF GLOBEC cruise ID.	text
event	station-cast DMO note: there is occasional discrepancy between trawl data and cruise eventlog for this field. This is the UAF GLOBEC event number but not the eventlog event number.	dimensionless
station	Sequential station number.	dimensionless
cast	CTD cast number.	dimensionless
lat	latitude; North is positive; this info came from the cruise eventlog	decimal degrees
lon	longitude; East is positive; this info came from the cruise eventlog	decimal degrees
date_local	date measurements were taken	dd/mm/yy
station_std	Stations revisited by many cruises.	dimensionless
press	pressure	decibars
temp_68	water temperature on the ITS 68 scale	degrees Celsius
density	density using the primary sensors	kg/m3
cond	conductivity	S/m
fluor	fluorescence - WetStar chlorophyll concentration	micrograms/liter
depth	depth of the measurement in the ocean	meters
potemp	potential temperature, IPTS-68	degrees Celsius
sal	adjusted Salinity	psu
sigma_0	density, sigma-theta	kg/m3

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Instruments

Dataset-specific Instrument Name	CTD Seabird 19
Generic Instrument Name	CTD Sea-Bird SEACAT 19
Dataset-specific Description	Also called Seacat, with pump and Wetlabs fluorometer. Lowered to 100m depth at all fish stations.
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	Fluorometer
Generic Instrument Name	Fluorometer
Dataset-specific Description	Wetlabs
Generic Instrument Description	A fluorometer or fluorimeter is a device used to measure parameters of fluorescence: its intensity and wavelength distribution of emission spectrum after excitation by a certain spectrum of light. The instrument is designed to measure the amount of stimulated electromagnetic radiation produced by pulses of electromagnetic radiation emitted into a water sample or in situ.

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Deployments

PA0101

Website	https://www.bco-dmo.org/deployment/57561
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0101cr.pdf
Start Date	2001-07-08
End Date	2001-07-14

PA0102

Website	https://www.bco-dmo.org/deployment/57562
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0102cr.pdf
Start Date	2001-08-11
End Date	2001-08-19

PA0103

Website	https://www.bco-dmo.org/deployment/57563
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0103cr.pdf
Start Date	2001-09-18
End Date	2001-09-22

PA0104

Website	https://www.bco-dmo.org/deployment/57564
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0104cr.pdf
Start Date	2001-10-21
End Date	2001-10-24

PA0201

Website	https://www.bco-dmo.org/deployment/57565
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0201cr.pdf
Start Date	2002-07-20
End Date	2002-07-26

PA0202

Website	https://www.bco-dmo.org/deployment/57566
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0202cr.pdf
Start Date	2002-08-20
End Date	2002-08-24

PA0203

Website	https://www.bco-dmo.org/deployment/57567
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0203cr.pdf
Start Date	2002-10-03
End Date	2002-10-04

PA0301

Website	https://www.bco-dmo.org/deployment/57568
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0301cr.pdf
Start Date	2003-07-13
End Date	2003-07-19

PA0302

Website	https://www.bco-dmo.org/deployment/57569
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0302cr.pdf
Start Date	2003-08-01
End Date	2003-08-07

PA0303

Website	https://www.bco-dmo.org/deployment/57570
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0303cr.pdf
Start Date	2003-09-09
End Date	2003-09-15

PA0401

Website	https://www.bco-dmo.org/deployment/57571
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0401cr.pdf
Start Date	2004-07-18
End Date	2004-07-24

PA0402

Website	https://www.bco-dmo.org/deployment/57572
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0402cr.pdf
Start Date	2004-08-17
End Date	2004-08-23

PA0403

Website	https://www.bco-dmo.org/deployment/57573
Platform	R/V Pandalus
Report	http://globec.who.edu/nep/reports/cgoa_cruises/pa0403cr.pdf
Start Date	2004-09-12
End Date	2004-09-17

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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.

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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
NSF Division of Ocean Sciences (NSF OCE)	OCE-0109078
National Oceanic and Atmospheric Administration (NOAA)	unknown NEP NOAA

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