

Chlorophyll data collected in the Gulf of Maine on F/V Lady Regena (NEC-JR2001-1) from 2003-2005 (NEC-CoopRes project)

Website: <https://www.bco-dmo.org/dataset/2795>

Data Type: Cruise Results

Version: 1

Version Date: 2010-10-14

Project

» [Northeast Consortium: Cooperative Research](#) (NEC-CoopRes)

Program

» [NorthEast Consortium](#) (NEC)

| Contributors | Affiliation | Role |
|-----------------------------------|---|------------------------|
| Runge, Jeffrey A. | University of New Hampshire (UNH) | Principal Investigator |
| Jones, Rebecca J. | University of New Hampshire (UNH) | Scientist |
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Abstract

Chlorophyll data collected in the Gulf of Maine on F/V Lady Regena (NEC-JR2001-1) from 2003-2005 (NEC-CoopRes project)

Table of Contents

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

Coverage

Spatial Extent: N:43.1798 E:-70.312 S:42.8335 W:-70.4303

Temporal Extent: 2003-01-17 - 2005-11-21

Dataset Description

"Cooperative Long-term Ecosystem Monitoring in the Gulf of Maine"

Project leader: Jeffrey Runge (UNH)

Project assistant: Rebecca Jones (UNH)

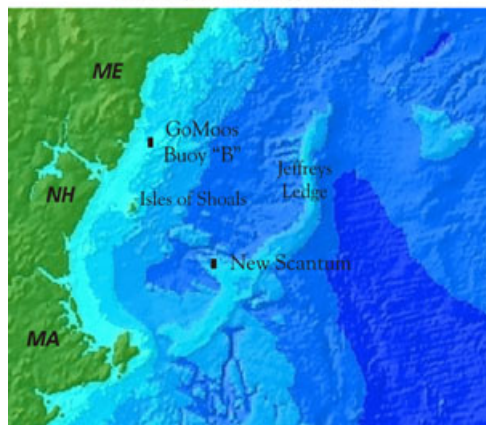
Industry participants: Yankee Fisherman's Coop and Portsmouth Fisherman's Coop.

Monitoring Advisory Panel: R.Barnaby (UNH), C.Goudey (MIT Sea Grant), S.Meeker (UNH Sea Grant Extension), L. Mercer (Maine, DNR), D. Mountain (NMFS, Woods Hole), C. Pendleton (NAMA), D. Townsend (UMaine)

The overall goal of this project is the design and development of a cooperative, industry-based contribution to monitoring of the pelagic ecosystem in the Gulf of Maine. The need for long-term biological data collection in the Gulf of Maine becomes critical in light of increasing evidence for change in New England's climate. It becomes increasingly important for the fishing industry as decisions about fishery management shift from a single or

multi-species to an ecosystem-based approach. By involving the expertise and resources of the local fishing community, we hope to learn more about the natural and man-made variability of the Gulf of Maine marine ecosystem.

Fixed Station Locations



courtesy of [USGS](#)

Sampling took place on a weekly schedule with the cooperation of Portsmouth Fishermen's COOP and Seabrook Yankee Fishermen's COOP fishermen. Each week we visited the two stations shown on the above map, [GoMOOS](#) Buoy "B" and New Scantun at the southern edge of Jeffreys Ledge.

Associated datasets: see [ctd_pulse](#), [nuts_pulse](#), [drywt_pulse](#), and [zoop_pulse](#) for more data from this study.

Updated Sept 05, 2006; gfh;

Updated Oct. 14, 2010, njc

Methods & Sampling

Data collected during time series, 2003-2005: temperature, salinity, chlorophyll a (at 6 depths), nutrients (phosphate, nitrate, ammonium), zooplankton biomass, abundance and composition at each station (total of 93 stations at Buoy "B" and 87 stations at Jeffreys Ledge over 3 years).

Samples taken are a CTD (SeaCat 19 plus) cast for salinity, temperature, density, and fluorescence; 2 vertical ring net tows with a 200 micron mesh for zooplankton and ichthyoplankton assemblages and abundance; and water samples taken from every 10 meter depth from 0-50 meters for nutrient and chlorophyll-a profiling as well as phytoplankton assemblages.

Data Processing Description

Please see the [PULSE chlorophyll protocol](#) pdf.

Chlorophyll A and Phaeophytin Data:

This field appears in all the Long-term Monitoring (PULSE) data sets and enables easy comparison.

B = GoMoos buoy B location

S = New Scantun at the southern edge Jeffreys Ledge

mg/m³ or µg/l, collected on a 0.7 micron Glass Fiber filter

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

Data Files

File

chla_pulse.csv(Comma Separated Values (.csv), 74.64 KB)
MD5:e0939e577b4895fc2bdf354eea3608a

Primary data file for dataset ID 2795

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

Parameters

| Parameter | Description | Units |
|-------------|---|-------|
| year | 4 digit year | |
| station | station number/identification, see chart above: B = GoMoos buoy B location S = New Scantum at the southern edge Jefferys Ledge | |
| date_local | local date | |
| lat | latitude in decimal degrees. North is positive. | |
| lon | longitude in decimal degrees. West is negative. | |
| depth | depth of the observation in meters | |
| replicate | sample replicate number | |
| chla_GF | chlorophyll a concentration in mg/m ³ or µg/l, collected on a 0.7 micron Glass Fiber filter | |
| chla_8um | chlorophyll a concentration in mg/m ³ or µg/l, collected on an 8 micron filter, not reported in year 2003 | |
| phaeo_GF | phaeophytin concentration in mg/m ³ or µg/l, collected on a 0.7 micron Glass Fiber filter, not reported in 2003 | |
| phaeo_8um | phaeophytin concentration in mg/m ³ or µg/l, collected on an 8 micron filter, not reported in 2003 | |
| yrday_local | day of the year with Jan. 1 = 1. sometimes called 'Julian Day' | |

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

Deployments

NEC-JR2001-1

| | |
|--------------------|---|
| Website | https://www.bco-dmo.org/deployment/57764 |
| Platform | F/V Lady Regena |
| Report | http://northeastconsortium.org/ProjectFileDownload.pm?report_id=544&table=project_report |
| Start Date | 2003-01-17 |
| End Date | 2005-11-09 |
| Description | <p>Methods & Sampling</p> <p>1. Interactions with a Steering Committee (the Monitoring Panel) to guide the design, implementation, and analysis of industry participation in a pilot program. 2. Create a process to encourage broad industry participation, and to select fishermen and fishing vessels for participation in the collection of time series samples. 3. Establish a laboratory at the University of New Hampshire for the analysis of oceanographic field samples for ecosystem monitoring, using standard biological oceanographic procedures. Obtain necessary field and laboratory equipment for data and sample analysis. Provide training workshops to provide general and hands-on experience for commercial fishermen in the laboratory protocols 4. Establish procedures for data collection, quality control, database management, and analysis of results. 5. Coordinate with ongoing research and monitoring efforts by local, state, regional, and national programs. 6. Organization of training workshops and seminars for commercial fishermen. 7. The scientific results: Implementation of a two-year project to collect and analyze samples at the two fixed stations</p> <p>Processing Description</p> <p>The overall goal of this project is the design and development of a cooperative, industry-based contribution to monitoring of the pelagic ecosystem in the Gulf of Maine. The need for long-term biological data collection in the Gulf of Maine becomes critical in light of increasing evidence for change in New England's climate. It becomes increasingly important for the fishing industry as decisions about fishery management shift from a single or multi-species to an ecosystem-based approach. By involving the expertise and resources of the local fishing community, we hope to learn more about the natural and man-made variability of the Gulf of Maine marine ecosystem. Sampling takes place on a weekly schedule with the cooperation of Portsmouth Fishermen's COOP and Seabrook Yankee Fishermen's COOP fishermen. Each week we visit the two stations shown on the above map, GoMOOS Buoy "B" and New Scantum at the southern edge of Jeffreys Ledge. Samples taken are a CTD (SeaCat 19 plus) cast for salinity, temperature, density, and fluorescence; 2 vertical ring net tows with a 200 micron mesh for zooplankton and ichthyoplankton assemblages and abundance; and water samples taken from every 10 meter depth from 0-50 meters for nutrient and chlorophyll-a profiling as well as phytoplankton assemblages.</p> |

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

Project Information

Northeast Consortium: Cooperative Research (NEC-CoopRes)

Website: <http://northeastconsortium.org/>

Coverage: Georges Bank, Gulf of Maine

The Northeast Consortium encourages and funds cooperative research and monitoring projects in the Gulf of Maine and Georges Bank that have effective, equal partnerships among fishermen, scientists, educators, and marine resource managers.

The Northeast Consortium seeks to fund projects that will be conducted in a responsible manner. Cooperative research projects are designed to minimize any negative impacts to ecosystems or marine organisms, and be consistent with accepted ethical research practices, including the use of animals and human subjects in research, scrutiny of research protocols by an institutional board of review, etc.

Program Information

NorthEast Consortium (NEC)

Website: <http://northeastconsortium.org/>

Coverage: Georges Bank, Gulf of Maine

The Northeast Consortium encourages and funds **cooperative research** and monitoring projects in the Gulf of Maine and Georges Bank that have effective, **equal partnerships** among fishermen, scientists, educators, and marine resource managers.

At the 2008 Maine Fishermen's Forum, the Northeast Consortium organized a session on data collection and availability. Participants included several key organizations in the Gulf of Maine area, sharing what data are out there and how you can find them.

The Northeast Consortium has joined the Gulf of Maine Ocean Data Partnership. The purpose of the GoMODP is to promote and coordinate the sharing, linking, electronic dissemination, and use of data on the Gulf of Maine region.

The Northeast Consortium was created in 1999 to encourage and fund effective, equal partnerships among commercial fishermen, scientists, and other stakeholders to engage in cooperative research and monitoring projects in the Gulf of Maine and Georges Bank. The Northeast Consortium consists of four research institutions (University of New Hampshire, University of Maine, Massachusetts Institute of Technology, and Woods Hole Oceanographic Institution), which are working together to foster this initiative.

The Northeast Consortium administers nearly \$5M annually from the National Oceanic and Atmospheric Administration for cooperative research on a broad range of topics including gear selectivity, fish habitat, stock assessments, and socioeconomics. The funding is appropriated to the National Marine Fisheries Service and administered by the University of New Hampshire on behalf of the Northeast Consortium. Funds are distributed through an annual open competition, which is announced via a Request for Proposals (RFP). All projects must involve partnership between commercial fishermen and scientists.

The Northeast Consortium seeks to fund projects that will be conducted in a responsible manner. Cooperative research projects should be designed to minimize any negative impacts to ecosystems or marine organisms, and be consistent with accepted ethical research practices, including the use of animals and human subjects in research, scrutiny of research protocols by an institutional board of review, etc.

Funding

| Funding Source | Award |
|----------------------------|---|
| NorthEast Consortium (NEC) | unknown NEC-CoopRes NEC |