Mesozooplankton weight-specific carbon ingestion rates from R/V Atlantis II cruises AII-119-4, AII-119-5 in the North Atlantic in 1989 (U.S. JGOFS NABE project)

Website: https://www.bco-dmo.org/dataset/2582

Version: December 05, 1994 Version Date: 1994-12-05

Project

» U.S. JGOFS North Atlantic Bloom Experiment (NABE)

Program

» <u>U.S. Joint Global Ocean Flux Study</u> (U.S. JGOFS)

| Contributors | Affiliation | Role |
|----------------------|---|------------------------|
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| Chandler, Cynthia L. | Woods Hole Oceanographic Institution (WHOI BCO-DMO) | BCO-DMO Data Manager |

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Dataset Description

Mesozooplankton weight-specific carbon ingestion rates

Methods & Sampling

PI: Hans Dam

of: University of Connecticut

dataset: Mesozooplankton weight-specific carbon ingestion rates

dates: April 25, 1989 to May 31, 1989

location: N: 47.0553 S: 46.265 W: -20.251 E: -17.6567

project/cruise: North Atlantic Bloom Experiment/Atlantis II 119, leg 4 and 5

ship: R/V Atlantis II

Methodology

See: Dam, Hans G., Carolyn Miller and Sigrun Jonasdottir, 1993. The trophic role of mesozooplankton at 47N and 20W during the North Atlantic Bloom Experiment. Deep-Sea Research II, Vol. 40, No. 12 pp 197-212.

DMO Note:

The reporting of plankton tow events was inconsistent, event numbers may reference a single tow or a series of tows. Use caution in a merging of data from different sources.

Data Files

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|---|---|---|
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grazing.csv(Comma Separated Values (.csv), 3.04 KB)

MD5:eb5d3ba2619608d44571bbd041fd49ce

Primary data file for dataset ID 2582

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Parameters

| Parameter | Description | Units |
|-----------|--|--------------------------------|
| year | year (as YYYY) | dimensionless |
| event | event number, from event log | dimensionless |
| sta | station number from event log | dimensionless |
| cast | cast number, numbered consecutively within station | dimensionless |
| sizefrac | size fraction/interval of organisms analyzed | millimeters |
| C_ingest | carbon ingestion rate | mgr C ingested/(mgr body C)/hr |

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Instruments

| Dataset- specific Instrument Name | Mechanical Flowmeter |
|--|--|
| Generic Instrument Name | Mechanical Flowmeter |
| Dataset- specific Description | A General Oceanics flowmeter mounted at the mouth of the net and a filtering cod end (mesh size 0.2 mm). |
| Generic Instrument Description | LACTILIZINGE CANAIC COMOR OLITTAIIC NINGE AND NATHON ONTRANCOS TO DOTORMING WATER VOIDCITV AND |

| Dataset- specific Instrument Name | RingNet |
|--|--|
| Generic Instrument Name | Ring Net |
| Dataset- specific Description | a 1 meter ring net fitted with a 0.2 mm mesh |
| Generic Instrument Description | A Ring Net is a generic plankton net, made by attaching a net of any mesh size to a metal ring of any diameter. There are 1 meter, .75 meter, .25 meter and .5 meter nets that are used regularly. The most common zooplankton ring net is 1 meter in diameter and of mesh size .333mm, also known as a 'meter net' (see Meter Net). |

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Deployments

AII-119-4

| Website | https://www.bco-dmo.org/deployment/57737 | |
|-------------|---|--|
| Platform | R/V Atlantis II | |
| Start Date | 1989-04-17 | |
| End Date | 1989-05-11 | |
| Description | early bloom cruise; 17 locations; 60N 21W to 46N 18W Methods & Sampling PI: Hans Dam of: University of Connecticut dataset: Mesozooplankton weight-specific carbon ingestion rates dates: April 25, 1989 to May 31, 1989 location: N: 47.0553 S: 46.265 W: -20.251 E: -17.6567 project/cruise: North Atlantic Bloom Experiment/Atlantis II 119, leg 4 ship: R/V Atlantis II Methodology See: Dam, Hans G., Carolyn Miller and Sigrun Jonasdottir, 1993. The trophic role of mesozooplankton at 47N and 20W during the North Atlantic Bloom Experiment. Deep-Sea Research II, Vol. 40, No. 12 pp 197-212. DMO Note: The reporting of plankton tow events was inconsistent, event numbers may reference a single tow or a series of tows. Use caution in a merging of data from different sources. | |

AII-119-5

| Website | https://www.bco-dmo.org/deployment/57738 | |
|-------------|---|--|
| Platform | R/V Atlantis II | |
| Start Date | 1989-05-15 | |
| End Date | 1989-06-06 | |
| Description | Methods & Sampling PI: Hans Dam of: University of Connecticut dataset: Mesozooplankton weight-specific carbon ingestion rates dates: April 25, 1989 to May 31, 1989 location: N: 47.0553 S: 46.265 W: -20.251 E: -17.6567 project/cruise: North Atlantic Bloom Experiment/Atlantis II 119, leg 5 ship: R/V Atlantis II Methodology See: Dam, Hans G., Carolyn Miller and Sigrun Jonasdottir, 1993. The trophic role of mesozooplankton at 47N and 20W during the North Atlantic Bloom Experiment. Deep-Sea Research II, Vol. 40, No. 12 pp 197-212. DMO Note: The reporting of plankton tow events was inconsistent, event numbers may reference a single tow or a series of tows. Use caution in a merging of data from different sources. | |

Project Information

U.S. JGOFS North Atlantic Bloom Experiment (NABE)

Website: http://usigofs.whoi.edu/research/nabe.html

Coverage: North Atlantic

One of the first major activities of JGOFS was a multinational pilot project, North Atlantic Bloom Experiment (NABE), carried out along longitude 20° West in 1989 through 1991. The United States participated in 1989 only, with the April deployment of two sediment trap arrays at 48° and 34° North. Three process-oriented cruises where conducted, April through July 1989, from R/V Atlantis II and R/V Endeavor focusing on sites at 46° and 59° North. Coordination of the NABE process-study cruises was supported by NSF-OCE award # 8814229. Ancillary sea surface mapping and AXBT profiling data were collected from NASA's P3 aircraft for a series of one day flights, April through June 1989.

A detailed description of NABE and the initial synthesis of the complete program data collection efforts appear in: Topical Studies in Oceanography, JGOFS: The North Atlantic Bloom Experiment (1993), Deep-Sea Research II, Volume 40 No. 1/2.

The U.S. JGOFS Data management office compiled a preliminary NABE data report of U.S. activities: Slagle, R. and G. Heimerdinger, 1991. U.S. Joint Global Ocean Flux Study, North Atlantic Bloom Experiment, Process Study Data Report P-1, April-July 1989. NODC/U.S. JGOFS Data Management Office, Woods Hole Oceanographic Institution, 315 pp. (out of print).

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Program Information

U.S. Joint Global Ocean Flux Study (U.S. JGOFS)

Website: http://usjgofs.whoi.edu/

Coverage: Global

The United States Joint Global Ocean Flux Study was a national component of international JGOFS and an integral part of global climate change research.

The U.S. launched the Joint Global Ocean Flux Study (JGOFS) in the late 1980s to study the ocean carbon cycle. An ambitious goal was set to understand the controls on the concentrations and fluxes of carbon and associated nutrients in the ocean. A new field of ocean biogeochemistry emerged with an emphasis on quality measurements of carbon system parameters and interdisciplinary field studies of the biological, chemical and physical process which control the ocean carbon cycle. As we studied ocean biogeochemistry, we learned that our simple views of carbon uptake and transport were severely limited, and a new "wave" of ocean science was born. U.S. JGOFS has been supported primarily by the U.S. National Science Foundation in collaboration with the National Oceanic and Atmospheric Administration, the National Aeronautics and Space Administration, the Department of Energy and the Office of Naval Research. U.S. JGOFS, ended in 2005 with the conclusion of the Synthesis and Modeling Project (SMP).

Funding

| Funding Source | Award |
|-----------------------------------|------------------|
| National Science Foundation (NSF) | unknown NABE NSF |

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