

# Species metadata associated with the NWACS CAMEO database

**Website:** <https://www.bco-dmo.org/dataset/662312>

**Data Type:** Other Field Results

**Version:** 1

**Version Date:** 2016-10-18

## Project

» [CAMEO: Patterns of Connectivity in Northwest Atlantic Fishery Ecosystems](#) (NW\_AtI EcosysConnect)

## Program

» [Comparative Analysis of Marine Ecosystem Organization](#) (CAMEO)

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## Abstract

Metadata containing background information on the species included in the related data from commercial fishing catches (landings) and fishery independent surveys.

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## Dataset Description

Metadata containing background information on the species included in the related data from commercial fishing catches (landings) and fishery independent surveys.

## Data Processing Description

BCO-DMO Processing:

- replaced blanks with "nd";
- modified parameter names to conform with BCO-DMO naming conventions;
- replaced spaces with underscores.

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## Data Files

File
<b>metadata_species.csv</b> (Comma Separated Values (.csv), 37.72 KB) MD5:0bcd58edae70452e549eb684938443c2
Primary data file for dataset ID 662312

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## Related Datasets

### IsRelatedTo

Miller, T., Link, J. S., Townsend, H., Wilberg, M., Collie, J., Frisk, M. G., Latour, R. J. (2016) **Data on commercial fishing catches (landings); part of the NWACS CAMEO database.** Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) Version Date 2016-10-18 <http://lod.bco-dmo.org/id/dataset/663484> [[view at BCO-DMO](#)]

Miller, T., Link, J. S., Townsend, H., Wilberg, M., Collie, J., Frisk, M. G., Latour, R. J. (2016) **Ecosystem metadata associated with the NWACS CAMEO database.** Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) Version Date 2016-10-18 <http://lod.bco-dmo.org/id/dataset/663190> [[view at BCO-DMO](#)]

Miller, T., Link, J. S., Townsend, H., Wilberg, M., Collie, J., Frisk, M. G., Latour, R. J. (2016) **Environmental data (atmospheric indices) associated with the NWACS CAMEO database.** Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) Version Date 2016-10-18 <http://lod.bco-dmo.org/id/dataset/663558> [[view at BCO-DMO](#)]

Miller, T., Link, J. S., Townsend, H., Wilberg, M., Collie, J., Frisk, M. G., Latour, R. J. (2016) **Survey data from fishery independent surveys; part of the NWACS CAMEO database.** Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) Version Date 2016-10-18 <http://lod.bco-dmo.org/id/dataset/663510> [[view at BCO-DMO](#)]

Miller, T., Link, J. S., Townsend, H., Wilberg, M., Collie, J., Frisk, M. G., Latour, R. J. (2016) **Survey metadata associated with the NWACS CAMEO database.** Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) Version Date 2016-10-18 <http://lod.bco-dmo.org/id/dataset/663236> [[view at BCO-DMO](#)]

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## Parameters

Parameter	Description	Units
id	ID number	unitless
common_name	Common name	unitless
family	Family	unitless
genus	Genus	unitless
species	Species	unitless
scientific_name	Scientific name	unitless
group	Fish, Mammal, Invertebrate, Zooplankton, Bird, Other, Habitat	unitless
habitat	Habitat (e.g. pelagic or demersal)	unitless
foraging_guild	Benthivore, Planktivore, Demersal Piscivore, Pel	unitless
fishbase_trophic_level	FishBase trophic level	unitless
size	Size	?
length_class	Length class; Medium>50, Large>100	unitless
spawning_mode	Spawning mode; estuary, coastal or both	unitless
life_history	Life history; est-dependent, marine, estuarine/Both	unitless
larval_duration	Larval duration; short 1 month	unitless
functional_group	Functional group	unitless
migratory_mode	Migratory mode; resident, migratory, high migratory	unitless
biome	Biome; boreal, temperate, sub-tropical	unitless
ITIS_num	Integrated Taxonomic Information System (ITIS) number	unitless

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## Project Information

### **CAMEO: Patterns of Connectivity in Northwest Atlantic Fishery Ecosystems (NW\_AtlEcosysConnect)**

**Website:** <http://hjordt.cbl.umces.edu/NWACS/NWACS.html>

**Coverage:** U.S. waters in the Northwest Atlantic coastal shelf, north of Cape Hatteras, NC, out to approximately -64W

#### *Description from NSF award abstract:*

The importance of fluxes across ecosystem boundaries is a characteristic of marine ecosystems that differentiates them from their terrestrial counterparts. From this viewpoint, any comparative analysis of marine ecosystems should address the patterns and degree of connectivity among ecosystems to be of highest utility. Here the investigators will conduct a suite of analyses that seek to quantify the sources, patterns and consequences of connectivity among 10 marine fishery ecosystems that together from the northwest Atlantic coastal shelf ecosystem. By conducting analyses in a hierarchical fashion with smaller ecosystems nested spatially within larger ecosystems they hope to identify scaling relationships in the ecological processes that characterize the dynamics of key species within these ecosystems. This work seeks to quantify the patterns and degree of connectivity among ecosystems in the Northwest Atlantic. Specifically, the investigators will conduct statistical analyses of empirical data from each ecosystem to quantify patterns in univariate, distribution and multivariate descriptors of their structure. They will also undertake time series analyses to describe relationships in the responses of different taxa and groups within each ecosystem. They will use the results of analyses conducted on the highly studied nearshore ecosystems as hypotheses to be tested on the somewhat sparser data of the offshore ecosystems. These analyses will delineate patterns of functional connectivity among ecosystems. They will also construct dynamic models of differing complexity to

understand the principal consequences of the connectivity demonstrated in the first two objectives on ecosystem function. Models will include biomass dynamic and coupled predator-prey simulations that will consider the impacts of removals from the overall region globally and more specific patterns of localized spatial depletion.

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## **Program Information**

### **Comparative Analysis of Marine Ecosystem Organization (CAMEO)**

**Website:** [http://www.nsf.gov/geo/oce/programs/CAMEO\\_Webpage.jsp](http://www.nsf.gov/geo/oce/programs/CAMEO_Webpage.jsp)

[CAMEO Science Plan](#) (2012).

The Comparative Analysis of Marine Ecosystem Organization (CAMEO) program was implemented as a partnership between the NOAA National Marine Fisheries Service and National Science Foundation Division of Ocean Sciences. The purpose of CAMEO was to strengthen the scientific basis for an ecosystem approach to the stewardship of our ocean and coastal living marine resources. The program supported fundamental research to understand complex dynamics controlling ecosystem structure, productivity, behavior, resilience, and population connectivity, as well as effects of climate variability and anthropogenic pressures on living marine resources and critical habitats. CAMEO encouraged the development of multiple approaches, such as ecosystem models and comparative analyses of managed and unmanaged areas (e.g., marine protected areas) that can ultimately form a basis for forecasting and decision support. Central to the program was the emphasis on collaborations between academic and private researchers and federal agency scientists with mission responsibilities to inform ecosystem management activities. (adapted from CAMEO website)

This funding opportunity implemented CAMEO research by supporting the development of research tools and strategic approaches through the following types of proposals:

1. Development of strategies and methodologies for comparative analyses that can be applied consistently across spatial and temporal scales and ecosystems, and that facilitate the design of decision support tools for marine populations, ecosystems and habitats.
2. Development of models that address key scientific questions by comparing ecosystems and ecosystem processes. Models that are geographically and temporally portable, and that incorporate assessment of modeling skill, are particularly encouraged.
3. Retrospective studies that analyze, re-analyze or synthesize existing information (historic, time-series, ongoing program, etc.) using a comparative approach.
4. Studies that integrate the human dimension within ecosystem dynamics. The CAMEO program seeks to promote interdisciplinary research using comparative approaches to link marine ecosystem research with the social and behavioral sciences in new and vital ways.

To guide program priorities, a Science Steering Committee was formed through Dr. Linda Deegan and the initial Scientific Planning Office at the Marine Biological Laboratory in Woods Hole, MA. This Committee was designed to provide scientific advice and broad direction to NOAA and NSF regarding the CAMEO program.

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## **Funding**

<b>Funding Source</b>	<b>Award</b>
<a href="#">NSF Division of Ocean Sciences (NSF OCE)</a>	<a href="#">OCE-1041711</a>

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