

US GLOBEC Georges Bank 1999 full resolution AVHRR images zoom domain from NOAA Satellites

Website: <https://www.bco-dmo.org/dataset/3887>

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Project

» [U.S. GLOBEC Georges Bank](#) (GB)

Program

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

| Contributors | Affiliation | Role |
|-----------------------------------|--|------------------------|
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| Groman, Robert C. | Woods Hole Oceanographic Institution (WHOI BCO-DMO) | BCO-DMO Data Manager |

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Dataset Description

Real time MCSST US GLOBEC Georges Bank full resolution zoom domain for 1999. During the time of the project, images provided to the ships were reviewed and those images with little cloud cover over Georges Bank were reviewed. (These image files were assigned a file extent (file type) of ".revd". When ships were not out on cruise reviewing did not take place. The images were remapped to the same GB_Zoom region (almost full resolution) and were given a file extent of ".gbs".

Data Provider:

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Notes:

As a courtesy, please notify Jim Bisagni via email about your intent to use the SST OI fields, so that he may keep a record.

Methods & Sampling

Domain:

43.996 latitude top, 39.004 latitude bottom, -70.632 longitude left, -63.97 longitude right

Center latitude: 41.5, center longitude: -67.3

512 x512 pixels, slope=0.125. Y-intercept=0

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Data Files

| File |
|---|
| zoom_avhrr_1999.csv (Comma Separated Values (.csv), 392.25 KB) MD5:c5821e3176c44d25b5aa13c06bb0ceec |
| Primary data file for dataset ID 3887 |

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Parameters

| Parameter | Description | Units |
|------------------|--|---------------------|
| images | Name of the NOAA satellite providing the images | n/a |
| description | Description of the NOAA satellite providing the AVHRR images | n/a |
| contributor | Name of the investigator providing the processed images. | n/a |
| x_pixel_unit | Pixel size in the X direction | map units per pixel |
| y_pixel_unit | Pixel size in the Y direction. This value is usually negative. | map units per pixel |
| x_correction | Rotation about the X axis | degrees |
| y_correction | Rotation about the Y axis | degrees |
| x_coordinate | X coordinate of the center of the upper left pixel | longitude degrees |
| y_coordinate | Y coordinate of the center of the upper left pixel | latitude degrees |
| month | Month | n/a |
| year | Four digit year | n/a |
| status | Status of the image such as reviewed (by investigator) | n/a |
| yrday_utc | UTC year day, starting with 001 as January 1 | three digits |
| day | UTC day of the month | two digits |
| time | UTC time of the image as hours, minutes and fraction of minutes | hhmm.mm |
| ISO_datetime_utc | UTC date and time formatted using the ISO standard | |
| overlay_image | Link to the satellite image to be used as the overlay image on the MapServer | gif image |
| color_bar | Color bar used for the AVHRR image representation of sea surface temperature. This scale is sometimes known as Pete's palette. | gif |

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Deployments

AVHRR_SST_Zoom1995-2003

| | |
|--------------------|---|
| Website | https://www.bco-dmo.org/deployment/58929 |
| Platform | NOAA Satellites |
| Start Date | 1995-01-03 |
| End Date | 2003-12-18 |
| Description | Multiple satellites including NOAA-9, NOAA-14, NOAA-15, NOAA-16, and NOAA-17, depending on the year. NOAA-9: 1995 NOAA-14: 1999, 2001 NOAA-15: 1999, 2001 NOAA-16: 2000, 2001 NOAA-17: 2002, 2003 |

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Project Information

U.S. GLOBEC Georges Bank (GB)

Website: http://globec.whoi.edu/globec_program.html

Coverage: Georges Bank, Gulf of Maine, Northwest Atlantic Ocean

The U.S. GLOBEC [Georges Bank](#) Program is a large multi-disciplinary multi-year oceanographic effort. The proximate goal is to understand the population dynamics of key species on the Bank - Cod, [Haddock](#), and two species of zooplankton ([Calanus finmarchicus](#) and [Pseudocalanus](#)) - in terms of their coupling to the physical environment and in terms of their [predators and prey](#). The ultimate goal is to be able to predict changes in the distribution and abundance of these species as a result of changes in their physical and biotic environment as well as to anticipate how their populations might respond to climate change.

The effort is substantial, requiring broad-scale surveys of the entire Bank, and process studies which focus both on the links between the target species and their physical environment, and the determination of fundamental aspects of these species' life history (birth rates, growth rates, death rates, etc).

Equally important are the modelling efforts that are ongoing which seek to provide realistic predictions of the flow field and which utilize the life history information to produce an integrated view of the dynamics of the populations.

The U.S. GLOBEC Georges Bank [Executive Committee \(EXCO\)](#) provides program leadership and effective communication with the funding agencies.

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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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