

# Chlorophyll data (CTD water bottle data) from ARSV Laurence M. Gould cruise LMG0203 in the Southern Ocean in 2002 (SOGLOBEC project)

**Website:** <https://www.bco-dmo.org/dataset/2357>

**Data Type:** Cruise Results

**Version:** 1

**Version Date:** 2005-12-15

## Project

» [U.S. GLOBEC Southern Ocean](#) (SOGLOBEC)

## Program

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

Contributors	Affiliation	Role
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## Abstract

Chlorophyll data (CTD water bottle data) from ARSV Laurence M. Gould cruise LMG0203 in the Southern Ocean in 2002 (SOGLOBEC project)

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## Coverage

**Spatial Extent:** N:-66.0892 E:-66.7543 S:-68.8007 W:-71.5838

**Temporal Extent:** 2002 - 2002

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## Dataset Description

### Chloro and Phaeo Pigments from CTD Bottle Casts, LMG0203

#### Instrument Notes:

Palmer Station's Fluorometer specs: Turner Fluorometer LE40603,  
MC#0007288  
S/N = 5147  
NSF#018695

#### Calibration Notes:

Performed serial dilution calibration at start of cruise using Sigma Chemicals chl<sub>a</sub> standard.  
Calibration values used were as follows:  
High Fd: 0.145 High tau: 2.301  
Med Fd: 0.143 Med tau: 2.317

Low Fd: 0.145 Low tau: 2.501

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*Last updated December 15, 2005; gfh*

**Methods & Sampling**

Chloro and Phaeo Pigments from CTD Bottle Casts LMG0203

**Data Processing Description**

**Calibration Notes:**

Performed serial dilution calibration at start of cruise using Sigma Chemicals chl\_a standard.

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**Data Files**

File
<b>fullchlorodaly.csv</b> (Comma Separated Values (.csv), 7.00 KB) MD5:e400da5812d513db1966bc0fd252d111 Primary data file for dataset ID 2357

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**Parameters**

Parameter	Description	Units
cruiseid	cruise identification, (e.g., LMG0103, NPB0104)	
year	year, GMT	
station	station number	
cast	CTD rosette cast number	
yrday_gmt	year day based on Julian Calendar, whole days	YYY
time_gmt	time in hours and minutes, GMT	HHmm
lat	latitude, negative = South, decimal degrees	DD.D
lon	longitude, negative = West, decimal degrees	DDD.D
event	event number, a unique identifier	
depth	depth of sample or data point	meters
chl_a	chlorophyll a concentration	ug/l
phaeo	phaeopigment concentration	ug/l

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## Instruments

<b>Dataset-specific Instrument Name</b>	Turner Design Digital 10-AU-05 Fluorometer
<b>Generic Instrument Name</b>	Turner Designs Fluorometer 10-AU
<b>Dataset-specific Description</b>	Palmer Station's Fluorometer specs: Turner Fluorometer LE40603, MC#0007288 S/N = 5147 NSF#018695
<b>Generic Instrument Description</b>	The Turner Designs 10-AU Field Fluorometer is used to measure Chlorophyll fluorescence. The 10AU Fluorometer can be set up for continuous-flow monitoring or discrete sample analyses. A variety of compounds can be measured using application-specific optical filters available from the manufacturer. (read more from Turner Designs, turnerdesigns.com, Sunnyvale, CA, USA)

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## Deployments

### LMG0203

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57642">https://www.bco-dmo.org/deployment/57642</a>
<b>Platform</b>	ARSV Laurence M. Gould
<b>Report</b>	<a href="http://www.ccpo.odu.edu/Research/globec/main_cruises02/lmg0203/menu.html">http://www.ccpo.odu.edu/Research/globec/main_cruises02/lmg0203/menu.html</a>
<b>Start Date</b>	2002-04-07
<b>End Date</b>	2002-05-20
<b>Description</b>	<p><b>Methods &amp; Sampling</b> Chloro and Phaeo Pigments from CTD Bottle Casts LMG0203</p> <p><b>Processing Description</b> Calibration Notes: Performed serial dilution calibration at start of cruise using Sigma Chemicals chl_a standard. Calibration values used were as follows: High Fd: 0.145 High tau: 2.301 Med Fd: 0.143 Med tau: 2.317 Low Fd: 0.145 Low tau: 2.501</p>

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## Project Information

### U.S. GLOBEC Southern Ocean (SOGLOBEC)

**Website:** [http://www.ccpo.odu.edu/Research/globec\\_menu.html](http://www.ccpo.odu.edu/Research/globec_menu.html)

**Coverage:** Southern Ocean

The fundamental objectives of United States Global Ocean Ecosystems Dynamics (U.S. GLOBEC) Program are dependent upon the cooperation of scientists from several disciplines. Physicists, biologists, and chemists must make use of data collected during U.S. GLOBEC field programs to further our understanding of the interplay of physics, biology, and chemistry. Our objectives require quantitative analysis of interdisciplinary data sets and, therefore, data must be exchanged between researchers. To extract the full scientific value, data must be made available to the scientific community on a timely basis.

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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
<a href="#">NSF Antarctic Sciences (NSF ANT)</a>	<a href="#">ANT-0196489</a>

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