

# Hourly ADCP data from ARSV Laurence M. Gould and RVIB Nathaniel B. Palmer cruises to the Southern Ocean from 2001-2003 as part of the Southern Ocean GLOBEC project.

**Website:** <https://www.bco-dmo.org/dataset/2343>

**Data Type:** Cruise Results

**Version:** 1

**Version Date:** 2004-01-08

## Project

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

## Program

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

Contributors	Affiliation	Role
<a href="#">Howard, Susan L.</a>	Earth and Space Research Institute	Co-Principal Investigator
<a href="#">Padman, Laurence</a>	Earth and Space Research Institute	Co-Principal Investigator
<a href="#">Allison, Dicky</a>	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

## Abstract

Hourly ADCP data from ARSV Laurence M. Gould and RVIB Nathaniel B. Palmer cruises to the Southern Ocean from 2001-2003 as part of the Southern Ocean GLOBEC project.

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  - [Project Information](#)
  - [Program Information](#)
  - [Funding](#)
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## Coverage

**Spatial Extent:** N:-52.3657 E:-58.7436 S:-70.6284 W:-77.7751

**Temporal Extent:** 2001-03-19 - 2003-02-13

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## Dataset Description

### Southern Ocean GLOBEC Hourly ADCP Data

#### Quality

The following datasets have been processed and represent fairly accurate results. However, these datasets may undergo additional editing. The user is therefore cautioned that the files listed here for download may not be the final datasets.

If you would like to be notified when updated versions are available, email Susan Howard and you will be put on a list. Otherwise, please check back for updates. Notes on the quality of each data set are included in the downloads.

#### Format

The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each \*.zip file contains a \*.mat file and a readme.txt file. See the URL below for access to the original Matlab files.

#### Single Ping Data

Single ping data from all cruises have been archived, but are not yet available for distribution by ESR.

For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see [http://www.esr.org/globec\\_index.html](http://www.esr.org/globec_index.html) and [http://www.esr.org/globec/adcp\\_data.html](http://www.esr.org/globec/adcp_data.html).

**Questions concerning these data should be directed to:**

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*Last updated May 1, 2007*

## **Acquisition Description**

In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.

## **Processing Description**

## Format

The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each \*.zip file contains a \*.mat file and a readme.txt file. See the URL below for access to the original Matlab files.

## Single Ping Data

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## Parameters

Parameter	Description	Units
cruiseid	Cruise identification	
year_start	Year the cruise started, GMT	YYYY
month_start	Month the cruise started, GMT	mm
day_start	Day the cruise started GMT	dd
time_start	Time the cruise started, GMT	HHmm.m
year_end	Year the cruise ended, GMT	YYYY
month_end	Month the cruise ended, GMT	mm
day_end	Day the cruise ended, GMT	dd
time_end	Time the cruise ended, GMT	HHmm.m
yday0_utc	Year day, GMT, where year day 0.5 = January 1 at noon.	YYY.Y
lat	Latitude, negative = South	DD.D
lon	Longitude, negative = West	DDD.D
depth	Depth of sample or observation	meters(m)
u_m	East-west component of velocity, positive = Eastward flow	m/sec
v_m	North-south component of velocity, positive = Northward flow	m/sec

## Instruments

<b>Dataset-specific Instrument Name</b>	Acoustic Doppler Current Profiler
<b>Generic Instrument Name</b>	Acoustic Doppler Current Profiler
<b>Dataset-specific Description</b>	Acoustic Doppler Current Profiler, encompasses an array of band widths and frequencies
<b>Generic Instrument Description</b>	<p>The ADCP measures water currents with sound, using a principle of sound waves called the Doppler effect. A sound wave has a higher frequency, or pitch, when it moves to you than when it moves away. You hear the Doppler effect in action when a car speeds past with a characteristic building of sound that fades when the car passes. The ADCP works by transmitting "pings" of sound at a constant frequency into the water. (The pings are so highly pitched that humans and even dolphins can't hear them.) As the sound waves travel, they ricochet off particles suspended in the moving water, and reflect back to the instrument. Due to the Doppler effect, sound waves bounced back from a particle moving away from the profiler have a slightly lowered frequency when they return. Particles moving toward the instrument send back higher frequency waves. The difference in frequency between the waves the profiler sends out and the waves it receives is called the Doppler shift. The instrument uses this shift to calculate how fast the particle and the water around it are moving. Sound waves that hit particles far from the profiler take longer to come back than waves that strike close by. By measuring the time it takes for the waves to bounce back and the Doppler shift, the profiler can measure current speed at many different depths with each series of pings. (More from WHOI instruments listing).</p>

## Deployments

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57635">https://www.bco-dmo.org/deployment/57635</a>
<b>Platform</b>	ARSV Laurence M. Gould
<b>Report</b>	<a href="http://www.ccpo.odu.edu/Research/globec/cruises01/mooringcruise/lmg0103_menu.html">http://www.ccpo.odu.edu/Research/globec/cruises01/mooringcruise/lmg0103_menu.html</a>
<b>Start Date</b>	2001-03-18
<b>End Date</b>	2001-04-13
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**LMG0104**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57637">https://www.bco-dmo.org/deployment/57637</a>
<b>Platform</b>	ARSV Laurence M. Gould
<b>Report</b>	<a href="http://www.ccpo.odu.edu/Research/globec/cruises/gould0103_0104.doc">http://www.ccpo.odu.edu/Research/globec/cruises/gould0103_0104.doc</a>
<b>Start Date</b>	2001-04-20
<b>End Date</b>	2001-06-05
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**LMG0106**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57639">https://www.bco-dmo.org/deployment/57639</a>
<b>Platform</b>	ARSV Laurence M. Gould
<b>Report</b>	<a href="http://www.ccpo.odu.edu/Research/globec/cruises01/lmg0106_menu.html">http://www.ccpo.odu.edu/Research/globec/cruises01/lmg0106_menu.html</a>
<b>Start Date</b>	2001-07-21
<b>End Date</b>	2001-09-01
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**LMG0201A**



<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57640">https://www.bco-dmo.org/deployment/57640</a>
<b>Platform</b>	ARSV Laurence M. Gould
<b>Report</b>	<a href="http://www.ccpo.odu.edu/Research/globec/main_cruises02/lmg0201a/LMG02-01A_Report.pdf">http://www.ccpo.odu.edu/Research/globec/main_cruises02/lmg0201a/LMG02-01A_Report.pdf</a>
<b>Start Date</b>	2002-02-06
<b>End Date</b>	2002-03-03
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a>"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a>"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**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>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a>"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a>"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**LMG0205**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57644">https://www.bco-dmo.org/deployment/57644</a>
<b>Platform</b>	ARSV Laurence M. Gould
<b>Report</b>	<a href="http://www.ccpo.odu.edu/Research/globec/main_cruises02/lmg0205/report_img0205.pdf">http://www.ccpo.odu.edu/Research/globec/main_cruises02/lmg0205/report_img0205.pdf</a>
<b>Start Date</b>	2002-07-29
<b>End Date</b>	2002-09-18
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a>"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a>"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**LMG0302**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57645">https://www.bco-dmo.org/deployment/57645</a>
<b>Platform</b>	ARSV Laurence M. Gould
<b>Report</b>	<a href="http://globec.whoi.edu/so-dir/reports/lmg0302/lmg0302.htm">http://globec.whoi.edu/so-dir/reports/lmg0302/lmg0302.htm</a>
<b>Start Date</b>	2003-02-13
<b>End Date</b>	2003-03-07
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a>"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a>"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**NBP0103**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57636">https://www.bco-dmo.org/deployment/57636</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://globec.who.edu/so-dir/reports/nbp0103/nbp0103.html">http://globec.who.edu/so-dir/reports/nbp0103/nbp0103.html</a>
<b>Start Date</b>	2001-04-24
<b>End Date</b>	2001-06-05
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**NBP0104**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57638">https://www.bco-dmo.org/deployment/57638</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://www.ccpo.odu.edu/Research/globec/cruises01/nbp0104_menu.html">http://www.ccpo.odu.edu/Research/globec/cruises01/nbp0104_menu.html</a>
<b>Start Date</b>	2001-07-22
<b>End Date</b>	2001-08-31
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**NBP0202**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57641">https://www.bco-dmo.org/deployment/57641</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://globec.whoi.edu/so-dir/reports/nbp0202/nbp0202b.html">http://globec.whoi.edu/so-dir/reports/nbp0202/nbp0202b.html</a>
<b>Start Date</b>	2002-04-09
<b>End Date</b>	2002-05-21
<b>Description</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>Processing Description</b></p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> target="_blank"&gt; <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a> .</p>

**NBP0204**

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57643">https://www.bco-dmo.org/deployment/57643</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://globec.whoi.edu/so-dir/reports/nbp0204/nbp0204b.html">http://globec.whoi.edu/so-dir/reports/nbp0204/nbp0204b.html</a>
<b>Start Date</b>	2002-07-31
<b>End Date</b>	2002-09-16
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<b>Project Information</b>	<p><b>Acquisition Description</b></p> <p>In 2001, the RVIB NB Palmer and RVIB LM Gould were upgraded to collect a full suite of data needed for full single-ping editing (i.e. processing single pings to ocean velocities). LMG0103, LMG0104, and LMG0106 were collected before the new system was implemented. The single ping data from these cruises can only be used as an aid for looking at amplitude (backscatter). NBP0103, NBP0104, NBP0202, NBP0204, LMG0201A, LMG0203, LMG0205, and LMG0302 datasets contain the complete set of data needed for processing the single ping data.</p> <p><b>U.S. GLOBEC Southern Ocean (SOGLOBEC)</b></p> <p><b>Website:</b> <a href="http://www.ccpo.odu.edu/Research/globec_menu.html">http://www.ccpo.odu.edu/Research/globec_menu.html</a></p> <p><b>Coverage:</b> Southern Ocean</p> <p><b>Description</b></p> <p>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.</p> <p>Format The datasets have been created using MATLAB. They are converted to ASCII before serving using the JGOFS data management system. The files are also available for download in their original, zipped form. Each *.zip file contains a *.mat file and a readme.txt file. See the URL below for access to the original Matlab files. Single Ping Data Single ping data from all cruises have been archived, but are not yet available for distribution by ESR. For additional documentation of the ADCP data collected during Southern Ocean Globec and for access to the original Matlab files, see <a href="http://www.esr.org/globec_index.html">http://www.esr.org/globec_index.html</a> and <a href="http://www.esr.org/globec/adcp_data.html">http://www.esr.org/globec/adcp_data.html</a>.</p> <p>[ <a href="#">table of contents</a>   <a href="#">back to top</a> ]</p>

## 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-9910102</a>

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