

Raw drifter data from RVIB Nathaniel B. Palmer and ARSV Laurence M. Gould cruises NBP0103, L NBP0202 in the Southern Ocean from 2001-2002 (SOGLOBEC project)

Website: <https://www.bco-dmo.org/dataset/2365>

Data Type: Cruise Results

Version: 1

Version Date: 2012-06-18

Project

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

Program

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

Contributors	Affiliation	Role
Limeburner, Richard	Woods Hole Oceanographic Institution (WHOI)	Principal Investigator
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Abstract

The following was extracted from the Cruise Report of the N.B. Palmer Cruise 01-03: 2.0 Drifter Measurements (Bob Beardsley and Dick Limeburner) Surface satellite to study the near surface Lagrangian currents in the SO GLOBEC study area on the western Antarctic Peninsula Shelf. Each drifter has a small (~ 30 cm) transmitter and batteries tethered to a holey sock drogue centered at 15 m below the surface. The drogue, about 10 m tall and 1 m in diameter, is designed to "float" and follows the mean water motion at 15 m depth with very little slippage even in high winds. Thus measuring the drifter's position as a function of time provides ocean current.

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Coverage

Spatial Extent: N:-60.282 E:-60.319 S:-70.457 W:-77.556

Temporal Extent: 2001-03-26 - 2002-04-16

Dataset Description

ARGOS Tracked Near Surface Drifter Data

The following was extracted from the Cruise Report of the N.B. Palmer Cruise 01-03. The complete cruise report can be seen [here](#) or on the [SO GLOBEC website](#).

2.0 Drifter Measurements (Bob Beardsley and Dick Limeburner)

Surface drifters are being deployed and tracked via satellite to study the near surface Lagrangian currents in the SO GLOBEC study area on the western Antarctic Peninsula Shelf. Each drifter has a small (~ 30 cm diameter) surface float with ARGOS transmitter and batteries tethered to a holey sock drogue centered at 15 m below the surface. The drogue is designed to "lock" itself to the water so that the surface float follows the mean water motion at 15 m depth with very little slippage even in high winds. Thus measuring the drifter's position as a function of time provides a Lagrangian measurement of the 15-m ocean current.

Data contributed by:

Richard Limeburner

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Woods Hole, MA 02543

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Deployments

NBP0103

Website	https://www.bco-dmo.org/deployment/57636
Platform	RVIB Nathaniel B. Palmer
Report	http://globec.whoi.edu/so-dir/reports/nbp0103/nbp0103.html
Start Date	2001-04-24
End Date	2001-06-05
Description	<p>Acquisition Description</p> <p>2.0 Drifter Measurements (Bob Beardsley and Dick Limeburner) Surface drifters are being deployed and tracked via satellite to study the near s GLOBEC study area on the western Antarctic Peninsula Shelf. Each drifter has a small (~ 30 cm diameter) surface float with ARGOS transmitte drogue centered at 15 m below the surface. The drogue, about 10 m tall and 1 m in diameter, is designed to "lock" itself to the water so that the at 15 m depth with very little slippage even in high winds. Thus measuring the drifter's position as a function of time provides a Lagrangian mea</p>

LMG0103

Website	https://www.bco-dmo.org/deployment/57635
Platform	ARSV Laurence M. Gould
Report	http://www.ccpo.odu.edu/Research/globec/cruises01/mooringcruise/lmg0103_menu.html
Start Date	2001-03-18
End Date	2001-04-13
Description	<p>Acquisition Description</p> <p>2.0 Drifter Measurements (Bob Beardsley and Dick Limeburner) Surface drifters are being deployed and tracked via satellite to study the near s GLOBEC study area on the western Antarctic Peninsula Shelf. Each drifter has a small (~ 30 cm diameter) surface float with ARGOS transmitte drogue centered at 15 m below the surface. The drogue, about 10 m tall and 1 m in diameter, is designed to "lock" itself to the water so that the at 15 m depth with very little slippage even in high winds. Thus measuring the drifter's position as a function of time provides a Lagrangian mea</p>

LMG0201A

Website	https://www.bco-dmo.org/deployment/57640
Platform	ARSV Laurence M. Gould
Report	http://www.ccpo.odu.edu/Research/globec/main_cruises02/lmg0201a/LMG02-01A_Report.pdf
Start Date	2002-02-06
End Date	2002-03-03
Description	<p>Acquisition Description</p> <p>2.0 Drifter Measurements (Bob Beardsley and Dick Limeburner) Surface drifters are being deployed and tracked via satellite to study the near s GLOBEC study area on the western Antarctic Peninsula Shelf. Each drifter has a small (~ 30 cm diameter) surface float with ARGOS transmitte drogue centered at 15 m below the surface. The drogue, about 10 m tall and 1 m in diameter, is designed to "lock" itself to the water so that the at 15 m depth with very little slippage even in high winds. Thus measuring the drifter's position as a function of time provides a Lagrangian mea</p>

NBP0202

Website	https://www.bco-dmo.org/deployment/57641
Platform	RVIB Nathaniel B. Palmer
Report	http://globec.whoi.edu/so-dir/reports/nbp0202/nbp0202b.html
Start Date	2002-04-09
End Date	2002-05-21
Description	<p>Acquisition Description</p> <p>2.0 Drifter Measurements (Bob Beardsley and Dick Limeburner) Surface drifters are being deployed and tracked via satellite to study the near s</p>

Description	GLOBEC study area on the western Antarctic Peninsula Shelf. Each drifter has a small (~ 30 cm diameter) surface float with ARGOS transmitter centered at 15 m below the surface. The drogue, about 10 m tall and 1 m in diameter, is designed to "lock" itself to the water so that the drogue stays at 15 m depth with very little slippage even in high winds. Thus measuring the drifter's position as a function of time provides a Lagrangian mea
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Project Information

U.S. GLOBEC Southern Ocean (SOGLOBEC)

Website: 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, 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 quantitative analysis of interdisciplinary data sets and, therefore, data must be exchanged between researchers. To extract the full scientific value, data must be exchanged 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 abundance and production of animals in the sea. The U.S. GLOBEC Program currently had major research efforts underway in the Georges Bank / Northwest (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 (WAP).

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Funding

Funding Source	Award
National Science Foundation (NSF)	unknown GB NSF
NSF Antarctic Sciences (NSF ANT)	unknown SOGLOBEC NSF ANT

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