

# Scientific sampling event logs from RVIB Nathaniel B. Palmer and R/V Roger Revelle cruises in the Southern Ocean, 1997-1998 (U.S. JGOFS AESOPS project)

Website: <https://www.bco-dmo.org/dataset/2718>

Version: final

Version Date: 2002-12-05

## Project

» [U.S. JGOFS Antarctic Environment and Southern Ocean Process Study](#) (AESOPS)

## Program

» [U.S. Joint Global Ocean Flux Study](#) (U.S. JGOFS)

Contributors	Affiliation	Role
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## Dataset Description

Scientific sampling event logs from research cruises

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## Data Files

## File

### log\_KIWI6.csv

(Comma Separated Values (.csv), 10.12 KB)

MD5:1112bd51bec75631f35b0a3c51290663

#### Event Log

version October 12, 1999

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

RR\_KIW6, APFZ Survey 1 cruise, R/V Roger A. Revelle

Dates: from October 20, 1997 to November 24, 1997

Chief Scientist: Timothy Cowles

[Cruise track](#)

Some activities, such as aerosol sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.

year = year cruise took place.

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC(GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise

cast\_type = a sampling activity identifier, where:

CTD = CTD rosette bottle cast

TM = trace metal free rosette bottle cast

TM\_GoFlo = trace metal free GoFlo bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by

a sampling sequence number for that method. CTD or Trace Metal (TM)

casts were also designated by an 8 digit unique number consisting of:

(3 digits for cruise, 3digits for station, and 2 digits for sequence).

seq = is a sequential (within each station) entry in the bridge log of all

over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or

responsible for the resulting data.

nd = A code identifying "no data"; used for missing data entries,

incomplete entries or bad data.

## File

**log\_KIWI7.csv**

(Comma Separated Values (.csv), 15.63 KB)

MD5:d9f68407da735bf1be73361524eafeb4

Event Log

version April 21, 1999

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

RR\_KIWI7, APFZ Process 1 cruise, R/V Roger A. Revelle

Dates: from December 2, 1997 to January 3, 1998

Chief Scientist: Richard Barber

[Cruise track](#)

Some activities, such as aerosol sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.

year = year cruise took place.

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC(GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise

cast\_type = a sampling activity identifier, where:

CTD = CTD rosette bottle cast

TM = trace metal free rosette bottle cast

TM\_GoFlo = trace metal free GoFlo bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM) casts were also designated by an 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence).

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data"; used for missing data entries, incomplete entries or bad data.

## File

**log\_KIWI8.csv**

(Comma Separated Values (.csv), 8.20 KB)

MD5:606ec2153b219bde7674f111272ca801

Event Log

version December 5, 2002

(previous version December 7, 1999)

(original version March 27, 1998)

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

RR\_KIWI8, APFZ Survey 2 cruise, R/V Roger A. Revelle

Dates: from January 8, 1998 to February 8, 1998

Chief Scientist: Kenneth Coale

[Cruise track](#)

Some activities, such as aerosol sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.

year = year cruise took place.

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC(GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise

cast\_type = a sampling activity identifier, where:

CTD = CTD rosette bottle cast

TM = trace metal free rosette bottle cast

TM\_GoFlo = trace metal free GoFlo bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM)

casts were also designated by an 8 digit unique number consisting of: (3 digits for cruise, 3 digits for station, and 2 digits for sequence).

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data"; used for missing data entries, incomplete entries or bad data.

## File

**log\_KIWI9.csv**

(Comma Separated Values (.csv), 21.08 KB)

MD5:51394cdc924b578012f9e8104019787c

Event Log

version July 7, 1999

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

RR\_KIW9, APFZ Process 2 cruise, R/V Roger A. Revelle

Dates: from February 13, 1998 to March 19, 1998

Chief Scientist: Wilford Gardner

[Cruise track](#)

Some activities, such as aerosol sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.

year = year cruise took place.

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC(GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise

cast\_type = a sampling activity identifier, where:

CTD = CTD rosette bottle cast

TM = trace metal free rosette bottle cast

TM\_GoFlo = trace metal free GoFlo bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM) casts were also designated by an 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence).

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data"; used for missing data entries, incomplete entries or bad data.

## File

**log\_NBP-96-04A.csv**

(Comma Separated Values (.csv), 12.84 KB)

MD5:f9e7f0ff59e622d15e7d2aac60dd857b

event log

version August 24, 1998

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

NBP-9604a Process cruise 1, Nathaniel B. Palmer

Dates: from October 2, 1996 to November 24, 1996

Chief Scientist: Walker Smith

[Cruise track](#)

Some activities such as aerosol sampling, sampling from the ships seawater system, continues underway sampling (weather, solar radiation, Sea Beam) observations are not reported in the log.

year = Year cruise took place

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC (GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise.

cast\_type = a sampling activity code identifier, where:

CTD = CTD rosette bottle cast

TM = Trace Metal free rosette bottle cast

TM\_GoFlo = Trace metal free GoFlo bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM)

casts were also designated by a 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence)

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data" used for missing data entries, incomplete entries, or bad data.

## File

**log\_NBP-96-4.csv**

(Comma Separated Values (.csv), 1.74 KB)

MD5:e961027cd92b197e799817a9ec510d69

event log

version August 11, 1997

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

NBP-9604 Site Survey cruise, Nathaniel B. Palmer

Dates: from August 30, 1996 to September 24, 1996

Chief Scientist: Bob Anderson

[Cruise track](#)

Some activities such as aerosol sampling, sampling from the ships seawater system, continues underway sampling (weather, solar radiation, Sea Beam) observations are not reported in the log.

year = Year cruise took place

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC (GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise.

cast\_type = a sampling activity code identifier, where:

CTD = CTD rosette bottle cast

TM = Trace Metal free rosette bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM) casts were also designated by a 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence)

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data" used for missing data entries, incomplete entries, or bad data.

## File

**log\_NBP-96-5.csv**

(Comma Separated Values (.csv), 3.08 KB)

MD5:0a257c55d14608fe0a34dfde7f538722

event log

version June 13, 1997

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

NBP-96-5 Mooring Deployment, Nathaniel B. Palmer

Dates: from November 11, 1996 to December 1, 1996

Chief Scientist: Jack Dymond

[Cruise track](#)

Some activities such as aerosol sampling, sampling from the ships seawater system, continues underway sampling (weather, solar radiation, Sea Beam) observations are not reported in the log.

year = Year cruise took place

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC (GMT) in the form

MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise.

cast\_type = a sampling activity code identifier, where:

CTD = CTD rosette bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM)

casts were also designated by a 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence)

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data" used for missing data entries, incomplete entries, or bad data.



## File

**log\_NBP-97-01.csv**

(Comma Separated Values (.csv), 18.28 KB)

MD5:28446522ac0820af9ffe72e2f066b209

event log

version May 14, 1999

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

NBP-97-1, Process cruise 2, Nathaniel B. Palmer

Dates: from January 13, 1997 to February 11, 1997

Chief Scientist: John Marra

[Cruise track](#)

Some activities such as aerosol sampling, sampling from the ships seawater system, continues underway sampling (weather, solar radiation, Sea Beam) observations are not reported in the log.

year = Year cruise took place

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC (GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise.

cast\_type = a sampling activity code identifier, where:

CTD = CTD rosette bottle cast

TM = Trace Metal free rosette bottle cast

TM\_GoFlo = Trace metal free GoFlo bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM)

casts were also designated by a 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence)

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data" used for missing data entries, incomplete entries, or bad data.

## File

**log\_NBP-97-03.csv**

(Comma Separated Values (.csv), 9.95 KB)

MD5:f63e2bc62c32f7e151f5c22c8f2ddaf8

event log

version September 11, 1998

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

NBP-97-3, Process cruise 3, Nathaniel B. Palmer

Dates: from April 4, 1997 to May 12, 1997

Chief Scientist: Hugh Ducklow

[Cruise track](#)

Some activities such as aerosol sampling, sampling from the ships seawater system, continues underway sampling (weather, solar radiation, Sea Beam) observations are not reported in the log.

year = Year cruise took place

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC (GMT) in the form

MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise.

cast\_type = a sampling activity code identifier, where:

CTD = CTD rosette bottle cast

TM = Trace Metal free rosette bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM)

casts were also designated by a 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence)

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data" used for missing data entries, incomplete entries, or bad data.

## File

**log\_NBP-97-08.csv**

(Comma Separated Values (.csv), 24.34 KB)

MD5:0d59447cd921f37197c7a0aa4a69c098

event log

version September 16, 1998

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

NBP-97-8, Process cruise 8, Nathaniel B. Palmer

Dates: from November 5, 1997 to December 13, 1997

Chief Scientist: Walker Smith

[Cruise track](#)

Some activities such as aerosol sampling, sampling from the ships seawater system, continues underway sampling (weather, solar radiation, Sea Beam) observations are not reported in the log.

year = Year cruise took place

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC (GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise.

cast\_type = a sampling activity code identifier, where:

CTD = CTD rosette bottle cast

TM = Trace Metal free rosette bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM) casts were also designated by a 8 digit unique number consisting of:

(3 digits for cruise, 3 digits for station, and 2 digits for sequence)

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data" used for missing data entries, incomplete entries, or bad data.

## File

**log\_NBP-98-2.csv**

(Comma Separated Values (.csv), 10.21 KB)

MD5:c2c96ed9f0896d540b845a03f6752f91

event log

version October 5, 1998

US JGOFS Antarctic Environments Southern Ocean Process Study (AESOPS)

NBP-98-2, Mooring recovery and Benthic cruise, Nathaniel B. Palmer

Dates: from February 25, 1998 to April 8, 1998

Chief Scientist: Sus Honjo

[Cruise track](#)

Some activities such as aerosol sampling, sampling from the ships seawater system, continues underway sampling (weather, solar radiation, Sea Beam) observations are not reported in the log.

year = Year cruise took place

event = A unique number assigned to each over the side sampling activity.

This number is a composite of date and time UTC (GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity.

Generally, one event began as the preceding event ended.

sta = Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise.

cast\_type = a sampling activity code identifier, where:

CTD = CTD rosette bottle cast

lat = starting latitude for each event (negative = south) in decimal degrees

lon = starting longitude for each event (negative = west) in decimal degrees

activity\_and\_comments = Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal (TM)

casts were also designated by a 8 digit unique number consisting of: (3 digits for cruise, 3 digits for station, and 2 digits for sequence)

seq = is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.

person = Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.

nd = A code identifying "no data" used for missing data entries, incomplete entries, or bad data.

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## Parameters

Parameter	Description	Units
year	year cruise took place.	
event	A unique number assigned to each over the side sampling activity. This number is a composite of date and time UTC(GMT) in the form MMDDHHmm that indicates the starting time of the sampling activity. Generally, one event began as the preceding event ended.	
sta	Station. A unique number designating a general geographic location at which a suite of sampling activities may occur; occupied sequentially during the cruise	
cast_type	a sampling activity identifier, where: CTD = CTD rosette bottle cast TM = trace metal free rosette bottle cast	
lat	starting latitude for each event (negative = south)	decimal degrees
lon	starting longitude for each event (negative = west)	decimal degrees
activity_and_comments	Identifies the sampling method, generally followed by a sampling sequence number for that method. CTD or Trace Metal(TM) casts were also designated by an 8 digit unique number consisting of: (3 digits for cruise, 3 digits for station, and 2 digits for sequence).	
seq	is a sequential (within each station) entry in the bridge log of all over the side activities for which gear was deployed.	
person	Name of the scientist(s) involved in the particular sampling event or responsible for the resulting data.	

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## Deployments

### NBP-96-4

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57717">https://www.bco-dmo.org/deployment/57717</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/ss.html">http://usjgofs.whoi.edu/aesops/ss.html</a>
<b>Start Date</b>	1996-08-30
<b>End Date</b>	1996-09-24
<b>Description</b>	<p>Site Survey Cruise</p> <p><b>Methods &amp; Sampling</b>  PI: Bob Anderson of: Lamont-Doherty Earth Observatory dataset: Cruise event log dates: August 30, 1996 to September 24, 1996 location: N: -46.4002 S: -64.1155 W: -178.357 E: -169.2333 project: NBP-9604 Site Survey cruise ship: R/V Nathaniel B. Palmer Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

#### NBP-96-04A

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57718">https://www.bco-dmo.org/deployment/57718</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/p1.html">http://usjgofs.whoi.edu/aesops/p1.html</a>
<b>Start Date</b>	1996-10-02
<b>End Date</b>	1996-11-08
<b>Description</b>	<p>Ross Sea Process Study 1</p> <p><b>Methods &amp; Sampling</b>  PI: Walker Smith of: University of Tennessee dataset: Cruise event log dates: October 2, 1996 to November 24, 1996 location: N: -63.4455 S: -78.0348 W: 168.9742 E: -170.5797 project: NBP-9604a Process cruise 1 ship: R/V Nathaniel B. Palmer Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

#### NBP-96-5

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57719">https://www.bco-dmo.org/deployment/57719</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/m1.html">http://usjgofs.whoi.edu/aesops/m1.html</a>
<b>Start Date</b>	1996-11-11
<b>End Date</b>	1996-12-01
<b>Description</b>	<p>Moorings Deployment</p> <p><b>Methods &amp; Sampling</b>  PI: Jack Dymond of: Oregon State University dataset: Cruise event log dates: November 11, 1996 to December 1, 1996 location: N: -53.0085 S: -76.538 W: 176.8862 E: -169.6195 project: NBP-96-5 Mooring Deployment ship: R/V Nathaniel B. Palmer Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

#### NBP-97-01

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57720">https://www.bco-dmo.org/deployment/57720</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/p2.html">http://usjgofs.whoi.edu/aesops/p2.html</a>
<b>Start Date</b>	1997-01-13
<b>End Date</b>	1997-02-11
<b>Description</b>	<p>Ross Sea Process Study 2</p> <p><b>Methods &amp; Sampling</b>  PI: John Marra of: Lamont-Doherty Earth Observatory dataset: Cruise event log dates: January 13, 1997 to February 11, 1997 location: N: -73.9972 S: -78.0498 W: 163.3383 E: -173.9992 project: NBP-97-1, Process cruise 2 ship: R/V Nathaniel B. Palmer Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

### NBP-97-03

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57721">https://www.bco-dmo.org/deployment/57721</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/p3.html">http://usjgofs.whoi.edu/aesops/p3.html</a>
<b>Start Date</b>	1997-04-04
<b>End Date</b>	1997-05-11
<b>Description</b>	<p>Ross Sea Process Study 3</p> <p><b>Methods &amp; Sampling</b>  PI: Hugh Ducklow of: Virginia Institute of Marine Science dataset: Cruise event log dates: April 4, 1997 to May 12, 1997 location: N: -63.5023 S: -77.9962 W: 168.8260 E: -176.0121 project: NBP-97-3, Process cruise 3 ship: R/V Nathaniel B. Palmer Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

### NBP-97-08

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57722">https://www.bco-dmo.org/deployment/57722</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/p4.html">http://usjgofs.whoi.edu/aesops/p4.html</a>
<b>Start Date</b>	1997-11-05
<b>End Date</b>	1997-12-13
<b>Description</b>	<p>Ross Sea Process Study 4 SeaWiFS transmits images to U.S. JGOFS scientists aboard the Palmer, for first time on November 23, 1997.</p> <p><b>Methods &amp; Sampling</b>  PI: Walker Smith of: University of Tennessee dataset: Cruise event log dates: November 5, 1997 to December 13, 1997 location: N: -60.1542 S: -77.888 W: 168.7308 E: -169.8877 project: NBP-97-8, Process cruise 8 ship: R/V Nathaniel B. Palmer Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

### NBP-98-2

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57723">https://www.bco-dmo.org/deployment/57723</a>
<b>Platform</b>	RVIB Nathaniel B. Palmer
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/nbp-bp_mr.html">http://usjgofs.whoi.edu/aesops/nbp-bp_mr.html</a>
<b>Start Date</b>	1998-02-25
<b>End Date</b>	1998-04-03
<b>Description</b>	<p>Benthic Process and Moorings Recovery</p> <p><b>Methods &amp; Sampling</b>  PI: Susumu Honjo of: Woods Hole Oceanographic Institution dataset: Cruise event log dates: February 25, 1998 to April 8, 1998 location: N: -49.9148 S: -76.512 W: 176.8413 E: -168.9518 project: NBP-98-2, Mooring recovery and Benthic cruise ship: R/V Nathaniel B. Palmer Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

#### KIWI6

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57724">https://www.bco-dmo.org/deployment/57724</a>
<b>Platform</b>	R/V Roger Revelle
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/RRs1.html">http://usjgofs.whoi.edu/aesops/RRs1.html</a>
<b>Start Date</b>	1997-10-20
<b>End Date</b>	1997-11-24
<b>Description</b>	<p>Polar Front Survey I. Additional information about this cruise can be found at <a href="https://usjgofs.whoi.edu/aesops/aboutrr6.html">https://usjgofs.whoi.edu/aesops/aboutrr6.html</a></p> <p><b>Methods &amp; Sampling</b>  PI: Timothy Cowles of: Oregon State University dataset: Cruise event log dates: October 20, 1997 to November 24, 1997 location: N: -56.9998 S: -62.3787 W: -171.9677 E: -167.6087 project: RR_KIWI6, APFZ Survey 1 cruise ship: R/V Roger A. Revelle Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

#### KIWI7

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57725">https://www.bco-dmo.org/deployment/57725</a>
<b>Platform</b>	R/V Roger Revelle
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/RRp1.html">http://usjgofs.whoi.edu/aesops/RRp1.html</a>
<b>Start Date</b>	1997-12-02
<b>End Date</b>	1998-01-03
<b>Description</b>	<p>Polar Front Process I. Additional information about this cruise can be found at <a href="https://usjgofs.whoi.edu/aesops/aboutrr7.html">https://usjgofs.whoi.edu/aesops/aboutrr7.html</a></p> <p><b>Methods &amp; Sampling</b>  PI: Richard Barber of: Duke University dataset: Cruise event log dates: December 2, 1997 to January 3, 1998 location: N: -52.9143 S: -64.7418 W: -174.7303 E: -168.8212 project: RR_KIWI7, APFZ Process 1 cruise ship: R/V Roger A. Revelle Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>



## KIWI8

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57726">https://www.bco-dmo.org/deployment/57726</a>
<b>Platform</b>	R/V Roger Revelle
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/RRs2.html">http://usjgofs.whoi.edu/aesops/RRs2.html</a>
<b>Start Date</b>	1998-01-08
<b>End Date</b>	1998-02-08
<b>Description</b>	<p>Polar Front Survey II. Additional information about this cruise can be found at <a href="https://usjgofs.whoi.edu/aesops/aboutrr8.html">https://usjgofs.whoi.edu/aesops/aboutrr8.html</a></p> <p><b>Methods &amp; Sampling</b> PI: Kenneth Coale of: Oregon State University dataset: Cruise event log dates: January 8, 1998 to February 8, 1998 location: N: -53 S: -67.7952 W: -175.5483 E: -169.4433 project: RR_KIWI8, APFZ Survey 2 cruise ship: R/V Roger A. Revelle Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

## KIWI9

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57727">https://www.bco-dmo.org/deployment/57727</a>
<b>Platform</b>	R/V Roger Revelle
<b>Report</b>	<a href="http://usjgofs.whoi.edu/aesops/RRp2.html">http://usjgofs.whoi.edu/aesops/RRp2.html</a>
<b>Start Date</b>	1998-02-13
<b>End Date</b>	1998-03-19
<b>Description</b>	<p>Polar Front Process II. Additional information about this cruise can be found at <a href="https://usjgofs.whoi.edu/aesops/aboutrr9.html">https://usjgofs.whoi.edu/aesops/aboutrr9.html</a></p> <p><b>Methods &amp; Sampling</b> PI: Wilford Gardner of: Texas A&amp;M University dataset: Cruise event log dates: February 13, 1998 to March 19, 1998 location: N: -49.9033 S: -71.3158 W: -178.826 E: -165.9127 project: RR_KIWI9, APFZ Process 2 cruise ship: R/V Roger A. Revelle Cruise track Some activities, such as aerosal sampling, sampling from the ship's seawater system, and continuous underway sampling (weather, solar radiation, Sea Beam) are not reported in the log.</p>

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## Project Information

### U.S. JGOFS Antarctic Environment and Southern Ocean Process Study (AESOPS)

**Website:** <http://usjgofs.whoi.edu/research/aesops.html>

**Coverage:** Southern Ocean, Ross Sea

The U.S. Southern Ocean JGOFS program, called Antarctic Environment and Southern Ocean Process Study (AESOPS), began in August 1996 and continued through March 1998. The U.S. JGOFS AESOPS program focused on two regions in the Southern Ocean: an east/west section of the Ross-Sea continental shelf along 76.5°S, and a second north/south section of the Southern Ocean spanning the Antarctic Circumpolar Current (ACC) at ~170°W (identified as the Polar Front). The science program, coordinated by Antarctic Support Associates (ASA), comprised eleven cruises using the R.V.I.B Nathaniel B. Palmer and R/V Roger Revelle as observational platforms and for deployment and recovery of instrumented moorings and sediment-trap arrays. The Ross-Sea region was occupied on six occasions and the Polar Front five times. Mapping data were

obtained from SeaSoar, ADCP, and bathymetric systems. Satellite coverage was provided by the NASA SeaWiFS and the NOAA/NASA Pathfinder programs.

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## **Program Information**

### **U.S. Joint Global Ocean Flux Study (U.S. JGOFS)**

**Website:** <http://usjgofs.whoi.edu/>

**Coverage:** Global

The United States Joint Global Ocean Flux Study was a national component of international JGOFS and an integral part of global climate change research.

The U.S. launched the Joint Global Ocean Flux Study (JGOFS) in the late 1980s to study the ocean carbon cycle. An ambitious goal was set to understand the controls on the concentrations and fluxes of carbon and associated nutrients in the ocean. A new field of ocean biogeochemistry emerged with an emphasis on quality measurements of carbon system parameters and interdisciplinary field studies of the biological, chemical and physical process which control the ocean carbon cycle. As we studied ocean biogeochemistry, we learned that our simple views of carbon uptake and transport were severely limited, and a new "wave" of ocean science was born. U.S. JGOFS has been supported primarily by the U.S. National Science Foundation in collaboration with the National Oceanic and Atmospheric Administration, the National Aeronautics and Space Administration, the Department of Energy and the Office of Naval Research. U.S. JGOFS, ended in 2005 with the conclusion of the Synthesis and Modeling Project (SMP).

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