

## **Modifications of Activities Planned for 1997-98**

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*Sections one through sixteen of the Modifications of Activities  
Planned for 1997-98 list any updates or changes to information  
provided in the respective sections of the 1997-98 plans.*

# **I. Ships and Aircraft**

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*Section I of the Modifications of Activities Planned for 1997-98  
lists any changes to ship and aircraft usage  
planned for this time period.*

## **Ships**

No significant changes are reported.

## **Aircraft**

The 109<sup>th</sup> Tactical Airlift Group (TAG) of the Air National Guard (ANG) based in Schenectady, New York provided three LC-130 aircraft instead of two as originally planned to assist with intra-continental flight operations.

The Royal New Zealand Air Force provided airlift support between Christchurch, New Zealand and McMurdo Station, Antarctica in February of 1998 in addition to November and December of 1997 as originally planned.

## **II. Expedition Dates**

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*Section II of the Modifications of Activities Planned for 1997-98  
lists the actual dates of significant events occurring  
during this time period.*

### **Significant Dates of Expeditions**

<b>Date</b>	<b>Activity</b>
03 Mar 97	R/V POLAR DUKE (S-036 Sidell, S-037 Detrich) PD97-2,-3,-4
12 May 97	R/V NATHANIEL B. PALMER Transit from Lyttelton, NZ, to Valpariso, Chile (Multibeam Tests) NBP97-4
30 Jun 97	R/V POLAR DUKE end of Charter
05 Jul 97	R/V NATHANIEL B. PALMER Transit (cont'd) from Lyttelton, NZ, to Valpariso, Chile (Muench S-203) NBP97-5,NBP97-6,NBP97-7
21 Aug 97	First flight of Winfly
17 Sep 97	Palmer Station opens
30 Sep 97	McMurdo Station opens for Mainbody
02 Oct 97	Single C-5 mission to McMurdo of the season
05 Oct 97	Marble Point opens
28 Oct 97	Siple Dome opens
05 Nov 97	R/V NATHANIEL B. PALMER (JGOFs Process Study IV) NBP97-8
07 Nov 97	109th AW arrives at McMurdo
08 Nov 97	South Pole opens (Winfly)
17 Nov 97	Vostok Station opens
21 Nov 97	Downstream B opens
21 Nov 97	R/V ABEL-J Open NOAA Field Camp, Livingston Island; Palmer Station support
06 Dec 97	Move runway from sea ice to Williams field skiway.

<b>Date</b>	<b>Activity</b>
	Fueling operations at Vostok Station
08 Dec 97	R/V ABEL-J (S-087 Taylor, S-097 Wiens) LMGR#5
17 Dec 97	109th AW departs McMurdo
21 Dec 97	R/V NATHANIEL B. PALMER (S-216 Dunbar, S-048 Eastman) NBP97-9
03 Jan 98	R/V ABEL-J (S-003 Day, S-013 Fraser) LMGR#7
07 Jan 98	109th AW returns to McMurdo
11 Jan 98	R/V ABEL-J (S-028 Quetin) LMGR#8
15 Jan 98	R/V NATHANIEL B. PALMER (S-083 J. Anderson) NBP98-1
19 Jan 98	M/T SAMUEL V. COBB arrives at McMurdo; station refueling
22 Jan 98	R/V LAURENCE M. GOULD (S-046 Karl) LMG98-1 Marble Point refueling operations
23 Jan 98	M/T SAMUEL V. COBB departs McMurdo
31 Jan 98	Downstream B closes
04 Feb 98	Vostok Station closes
05 Feb 98	Siple Dome closes
06 Feb.98	Marble Point closes
07 Feb 98	M/V GREENWAVE arrives at McMurdo
14 Feb 98	M/V GREENWAVE departs McMurdo
18 Feb 98	South Pole Station closes
21 Feb 98	109th AW departs McMurdo
22 Feb 98	McMurdo Station closes via LC130
22 Feb 98	Final LC-130 turnaround at McMurdo
25 Feb 98	R/V LAURENCE M. GOULD (S-072 Domack) LMG98-2
25 Feb 98	R/V NATHANIEL B. PALMER (S-228 J. Anderson) NBP98-2

## **III. Station Openings**

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*Section III of the Modifications of Activities Planned for 1997-98 lists the names, locations, and actual opening dates of the Party's bases and subsidiary stations established in the Antarctic Treaty Area, and whether they are for summer and/or winter operations.*

### **Year Round Stations**

#### **McMurdo Station**

Location: Hut Point Peninsula on Ross Island in McMurdo Sound  
77° 55'S Latitude  
166° 39'E Longitude

Annual Relief: 3 September 1997

#### **Amundsen-Scott South Pole Station**

Location: 90° 00'S Latitude

Annual Relief: 8 November 1997

#### **Palmer Station**

Location: Anvers Island near Bonaparte Point  
64° 46'S Latitude  
64° 05'W Longitude

Annual Relief: 17 September 1997

## **Austral Summer Camps**

### **Siple Dome Camp**

Location: 81° 39'S Latitude  
149° 04'W Longitude

Open: 28 October 1997

Close: 05 February 1998

### **Downstream Bravo Camp**

Location: 84° 01'S Latitude  
155° 00'W Longitude

Open: 23 November 1997

Close: 31 January 1998

### **Ford Range Camp**

Location: 77° 16'S Latitude  
142° 27'W Longitude

Open: 24 November 1997

Close: 30 January 1998

## IV. Personnel

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*Section IV of the Modifications of Activities Planned for 1997-98 lists actual dates that senior management personnel were on-station in Antarctica during this time period. [Appendix III](#) of this document provides a comprehensive listing of all persons transiting the 60<sup>th</sup> parallel South, the date of transit, their professional affiliation, and visitor category.*

### Senior United States Representatives

<b>DATES</b>	<b>NAME</b>
01 Oct 97 - 05 Oct 97	Erick Chiang
06 Oct 97 - 15 Dec 97	Dwight D. Fisher
11 Jan 98 - 02 Feb 98	Erick Chiang

### NSF Representatives in Antarctica

\* Denotes Science Representative

<b>DATES</b>	<b>NAME</b>	<b>LOCATION</b>
01 Oct 97 - 16 Dec 97	David M. Bresnahan	McMurdo
17 Dec 97 - 19 Feb 98	Alexander L. Sutherland	McMurdo
01 Oct 97 - 15 Nov 97	Scott G. Borg *	McMurdo
16 Nov 97 - 10 Dec 97	Julie M. Palais *	McMurdo
07 Jan 98 - 23 Jan 98	Roberta Marinelli *	McMurdo
24 Jan 98 - 10 Feb 98	Margaret J. Dionne *	McMurdo
08 Nov 97 - 13 Dec 97	Jerry W. Marty	South Pole
11 Jan 98 - 17 Feb 98	Jerry W. Marty	South Pole
08 Nov 97 - 01 Dec 97	Leonard E. Johnson*	South Pole
02 Dec 97 - 06 Jan 98	Hilleary D. Everist *	South Pole

07 Jan 97 - 28 Jan 98	Linda E. Duguay *	South Pole
16 Sep 97 - 03 Oct 97	Harry Mahar	Palmer
29 Nov 97 - 30 Dec 97	Sonja Ortega*	Palmer
25 Jan 98 - 17 Feb 98	David M. Bresnahan	Palmer

## **Offices in Charge of Bases**

Each U.S. station has a station manager for operations/logistics support and a station science leader. Station managers for the 1997-98 season were:

### **McMurdo Station**

CAPT Hugh Smith, USN	03 Oct 97 - 22 Feb 98
Albert G. Martin (winter over)	18 Oct 96 - 12 Dec 97
John S. Sherve (winter-over)	13 Dec 97 -

### **Amundsen-Scott South Pole Station**

David Fischer, Station Manager	26 Oct 97- 18 Feb 98
Katherine M. Jensen (winter-over)	19 Feb 98 -

### **Palmer Station**

Ronald Nugent, Station Manager	16 Sep 97- 05 Apr 98
Ronnie P. Baltz, Station Manager (winter over)	06 Apr 98-

## **Numbers, Occupations and Specializations of Personnel**

No Significant Changes



## **Numbers of Personnel Who Are Members of The Military Service**

No significant Changes

## **Personnel Engaged in Scientific Activities**

(with professional affiliation)

Please see [Appendix III](#)

## **V. Armaments**

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*Section V of the Modifications of Activities Planned for 1997-98 details changes in the number and type of armaments possessed by personnel at the main Antarctic stations and on research vessels.*

### **McMurdo Station**

- 1 rifle, dart, "CAP-CHUR" powder projector (#350). This rifle was retrograded and returned to Don Siniff of the University of Minnesota.
- 1 barrel and grip, for Savage .22 long over/20-gauge under. This weapon was destroyed on station and the pieces retrograded in 1994.
- 8 pistols, pyrotechnic (5 ea. 25 mm) (2 ea. 12-gauge). These signaling devices were retrograded and replaced with disposable hand held flares.

### **Palmer Station**

No significant changes are noted.

### **South Pole Station**

No significant changes are noted.

### **R/V NATHANIEL B. PALMER**

No significant changes are noted.

## **R/V LAURENCE M. GOULD**

No significant changes are noted.

## **VI. Project Descriptions**

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*No modifications of field research projects are presented here, but original plans and project descriptions are available in [appendix II](#) of this document.*

## VII. Scientific Equipment

Section VII of the Modifications of Activities Planned for 1997-98 lists additions and deletions to the principal scientific equipment available at McMurdo, South Pole, and Palmer stations and onboard USAP research vessels.

### Additions to Scientific Equipment

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG<sup>1</sup></u>	<u>NBP<sup>2</sup></u>	<u>AGO<sup>3</sup></u>	<u>REV<sup>4</sup></u>
<b>Astrophysics Aeronomy</b>							
Centrifuge, Refrigerated							
12K RPM Micro							X
Optical Time Domain Reflectometer							
<b>Biology</b>							
Bath, Water, Circulating							X
Camera, CCD						X	
Camera, Still Underwater					X		
Dry Ice Maker		X					
Filtration Apparatus, Water							X
Incubator, Low Temperature	X						
Oven	X						
Spectrophotometer	X						
<b>Computers</b>							
<u>Macintosh:</u>							

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG<sup>1</sup></u>	<u>NBP<sup>2</sup></u>	<u>AGO<sup>3</sup></u>	<u>REV<sup>4</sup></u>
Macintosh Power PC 9500					X		
<u>Workstation:</u>							
Sun SPARC 5					X		
SGI Indy				X			
<u>Printers:</u>							
Ink Jet Color					X		
<u>Miscellaneous:</u>							
Magneto-optical Drive					X		
Zip Drive					X		
<b>Geology/Geophysics</b>							
Echo Sounder, Knudsen				X			
Seismic Sensor System	X	X	X				
Swath bathymetric mapping system					X		
<b>Geomagnetism</b>							
Magnetometer, Portable					X		
<b>Meteorology</b>							
Weather FAX					X		
<b>Oceanography/Limnology</b>							
Sat P-Code GPS				X			
<b>Other</b>							
Frequency counter					X		
Turbo Molecular Pump	X						

## Deletions to Scientific Equipment

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> <sup>1</sup>	<u>NBP</u> <sup>2</sup>	<u>AGO</u> <sup>3</sup>	<u>REV</u> <sup>4</sup>
<b>Biology</b>							
Camera, Still Underwater						X	
Counter, Liquid Scintillation						X	
<b>Computers</b>							
<u>Macintosh:</u>							
Macintosh Power PC 7200					X		
<u>Miscellaneous:</u>							
Bernoulli Disk						X	
<u>Printers:</u>							
Ink Jet, Color						X	
<u>Workstation:</u>							
Sun SPARC 2					X		
<b>Geology/Geophysics</b>							
Swath bathymetric mapping system						X	
<b>Meteorology</b>							
Laser Ceilometer		X					
<b>Oceanography/Limnology</b>							
Sonar, Side Scan				X			

1 = R/V LAURENCE M. GOULD

2 = R/V NATHANIEL B. PALMER

3 = AUTOMATED GEOPHYSICAL OBSERVATORY

4 = R/V ROGER REVELLE

## VIII. Transportation and Comms

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*Section VIII of Modifications of Activities Planned for 1997-98 details additions and deletions to the number and type transportation facilities, and changes to proposed projects that affect communications equipment used within the Antarctic treaty area.*

### Surface, Marine, and Air Transportation Vehicles

#### McMurdo Station

##### **Delete**

Carrier, Personnel and Cargo (tracked and wheeled)	1
Trailer, (tracked and wheeled)	1
Forklift, warehouse	1
Bulldozers	2
Trackloaders	5
Hovercraft	1

#### Amundsen-Scott South Pole Station

##### **Add**

Cranes	2
Tractor Crawler	1



## **Palmer Station**

### **Add**

Telescopic Material Handler

1

## **Description of Communications Facilities**

### **McMurdo Station**

No significant changes are noted.

### **South Pole Station**

1. A Naval Order Wire System (NOWS) RTTY link was installed from South Pole to McMurdo Station.
2. An Intranet Web site was installed at South Pole Station.
3. MBONE high quality Video Teleconferencing capabilities were installed and tested
4. The TDRRS Satellite Relay System was installed during the austral summer season.
5. Vocal Tech Voice over IP Internet Phone was installed during the austral summer
6. TPC Internet Fax capabilities were installed during the austral summer.

### **Palmer Station**

1. INMARSAT "B" was installed during the summer season.
2. CU-CEE-ME Video teleconferencing was installed and tested successfully during the summer season.

## **Description of Airfields**

### **McMurdo Station**

#### ***Navigation Aids***

A precision approach path indicator (PAPI) was installed at Williams field.

### **Amundsen-Scott South Pole Station**

No significant changes are noted.

### **Palmer Station**

No significant changes are noted.

### **Marble Point Camp**

No significant changes are noted.

## **IX. Assistance Facilities**

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*Section IX of the Modifications of Activities Planned for 1997-98 details changes in the facilities available for rendering assistance in Antarctica including medical, transport services and emergency shelters.*

### **McMurdo Station**

#### **Medical Facilities**

Due to the transition from military to civilian medical personnel at McMurdo station, the following changes apply. During the winter-over period there is a six-bed medical and dental facility with 1 doctor and 2 medical assistants. These personnel are augmented with up to 12 emergency medical technicians assigned to the Fire Department. During the summer this facility is staffed with 2 physicians, 2 physicians' assistants or nurse practitioners, 1 dentist and dental assistant, 1 radiographic technician, 1 laboratory technician, 1 physical therapist, and 4 emergency medical responders. These personnel are augmented with up to 40 emergency medical technicians assigned to the Fire Department.

No other significant changes are noted.

## X. Tourism

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*Section X presents planned itineraries for U.S. based non-governmental activities in the Treaty area.*

### Abercrombie & Kent International, Inc.

Abercrombie & Kent International, Inc. of Oak Brook, Illinois, conducted a total of nine cruises to the Antarctic Peninsula during the 1997-98 season using M/S Explorer. Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

#### M/S EXPLORER

##### **Cruise EX-731**

November/December 1997  
79 PAX; 13 STAFF; 64 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		27 NOV 1997
Carcass Island/New Island		28 NOV 1997
at sea		29-30 NOV 1997
Penguin Island	93	01 DEC 1997
Arctowski Station, King George Island	98	01 DEC 1997
Gourdin Island	99	02 DEC 1997
Hannah Point, Livingston Island	88	03 DEC 1997
Whaler's Bay, Deception Island	87	03 DEC 1997
Pendulum Cove, Deception Island	52	03 DEC 1997
Cuerverville Island	94	04 DEC 1997
Paradise Bay	99	04 DEC 1997

Petermann Island	71	05 DEC 1997
Goudier Island	74	05 DEC 1997
Jouglá Point, Port Lockroy	47	05 DEC 1997
at sea		06-07 DEC 1997
Ushuaia, ARGENTINA		08 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise EX-732**

December 1997

68 PAX; 14 STAFF; 63 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Ushuaia, ARGENTINA		08 DEC 1997
at sea		09-10 DEC 1997
Gonzales Videla Station, Waterboat Point, Paradise Bay	83	11 DEC 1997
Petermann Island	88	11 DEC 1997
Goudier Island	77	11 DEC 1997
Jouglá Point, Port Lockroy	75	12 DEC 1997
Palmer Station, Anvers Island	70	12 DEC 1997
Torgersen Island	92	12 DEC 1997
Telefon Bay, Deception Island	80	12 DEC 1997
Pendulum Cove, Deception Island	77	13 DEC 1997
Cape Lookout, Elephant Island	71	13 DEC 1997
South Orkney Islands	84	14 DEC 1997
at sea		15 DEC 1997
South Georgia		16 DEC 1997
at sea		17-19 DEC 1997
Southeast Falkland Islands		20-21 DEC 1997
Port Stanley, FALKLAND ISLANDS		22 DEC 1997
		23 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise EX-733**

December 1997/January 1998  
97 PAX; 14 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		23 DEC 1997
Carcass/New Island		24 DEC 1997
at sea		25-26 DEC 1997
Aitcho Island	110	27 DEC 1997
Yankee Harbor, Greenwich Island	110	27 DEC 1997
Paulet Island	107	28 DEC 1997
Hope Bay (Uruguayan hut)	105	28 DEC 1997
Rancho Point, Deception Island	98	29 DEC 1997
Whaler's Bay, Deception Island	105	29 DEC 1997
Telefon Bay, Deception Island	101	29 DEC 1997
Pendulum Cove, Deception Island	77	29 DEC 1997
Goudier Island	105	30 DEC 1997
Jouglá Point, Port Lockroy	98	30 DEC 1997
Palmer Station, Anvers Island	110	30 DEC 1997
Torgersen Island	104	30 DEC 1997
Flanders Bay, Graham Land	64*	31 DEC 1997
Foyn Harbor,	106*	01 JAN 1998
Cuerville Island	108	01 JAN 1998
Drake Passage (at sea)		02-03 JAN 1998
Ushuaia, ARGENTINA		04 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise EX-801**

January 1998

91 PAX; 12 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Ushuaia, ARGENTINA		04 JAN 1998
at sea		05-06 JAN 1998
Cuverville Island	103	07 JAN 1998
Spigot Peak, Orne Island	97	07 JAN 1998
Petermann Island	101	07 JAN 1998
Goudier Island	105	08 JAN 1998
Jougla Point, Port Lockroy	99	08 JAN 1998
Palmer Station, Anvers Island	101	08 JAN 1998
Torgersen Island	100	08 JAN 1998
Telefon Bay, Deception Island	98	09 JAN 1998
Aitcho Island	80	09 JAN 1998
Point Wild, Elephant Island	91*	10 JAN 1998
South Orkneys		11 JAN 1998
at sea		12 JAN 1998
South Georgia		13-15 JAN 1998
at sea		16-17 JAN 1998
Southwest Falkland Islands		18 JAN 1998
Port Stanley, FALKLAND ISLANDS		19 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise EX-802**

January 1998  
94 PAX; 12 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		19 JAN 1998
Carcass/New Island		20 JAN 1998
at sea		21-22 JAN 1998
Aitcho Island	108	23 JAN 1998
Yankee Harbor	103	23 JAN 1998
Hannah Point, Livingston Island	108	24 JAN 1998
Whaler's Bay, Deception Island	108	24 JAN 1998
Pendulum Cove, Deception Island	96	24 JAN 1998
Almirante Brown Station, Paradise Bay	108	25 JAN 1998
Vernadsky Station, Argentine Island	111	25 JAN 1998
Petermann Island	101	26 JAN 1998
Port Lockroy, Wiencke Island	109	26 JAN 1998
Antarctic Peninsula		23-26 JAN 1998
Drake Passage (at sea)		27-28 JAN 1998
Ushuaia, ARGENTINA		29 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

**Cruise EX-803**

January/February 1998  
95 PAX; 12 STAFF ; 62 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		29 JAN 1998
Drake Passage (at sea)		30-31 JAN 1998
Gourdin Island	108	01 FEB 1998
Brown Bluff, Tabarin Peninsula	99	01 FEB 1998
Hannah Point, Livingston Island	108	02 FEB 1998
Pendulum Cove, Deception Island	103	02 FEB 1998



Whaler's Bay, Deception Island	103	02 FEB 1998
Enterprise Islands	107*	03 FEB 1998
Dorian Bay, Wiencke Island	106	03 FEB 1998
Port Lockroy, Wiencke Island	108	03 FEB 1998
Pleneau Island	103	04 FEB 1998
Vernadsky Station, Argentine Island	109	04 FEB 1998
Paradise Bay	97*	05 FEB 1998
Cuerverville Island	108	05 FEB 1998
at sea		06-07 FEB 1998
Ushuaia, ARGENTINA		08 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise EX-804**

February 1998

84 PAX; 13 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		08 FEB 1998
at sea		09-10 FEB 1998
Almirante Brown Station, Paradise Bay	96	11 FEB 1998
Cuerverville Island	98	11 FEB 1998
Pleneau Island	96	12 FEB 1998
Palmer Station, Anvers Island	96	12 FEB 1998
Dorian Bay, Wiencke Island	98	13 FEB 1998
Port Lockroy, Wiencke Island	97	13 FEB 1998
Half Moon Island	98	14 FEB 1998
Aitcho Island	94	14 FEB 1998
Kinnes Cove, Joinville Island	98	15 FEB 1998
Penguin Island	94	15 FEB 1998
Drake Passage (at sea)		16-17 FEB 1998
Ushuaia, ARGENTINA		18 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise EX-805**

February 1998

65 PAX; 14 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		18 FEB 1998
Drake Passage (at sea)		19-20 FEB 1998
Robert Point, South Shetland Island	78	20 FEB 1998
D'Urville Mount, Joinville Island	74	21 FEB 1998
Devil Island	2	21 FEB 1998
Half Moon Island	77	22 FEB 1998
Whaler's Bay, Deception Island	77	22 FEB 1998
Pendulum Cove	73	22 FEB 1998
Enterprise Islands	77*	23 FEB 1998
Cuverville Island	78	23 FEB 1998
Lagarrigue Cove (Selvick), Orne Harbor	77	23 FEB 1998
Pleneau Island	73*	24 FEB 1998
Dorian Bay, Wiencke Island	78	24 FEB 1998
Port Lockroy, Wiencke Island	78	24 FEB 1998
Lapeyrere Bay, Gordin Peninsula	76*	25 FEB 1998
at sea		26-27 FEB 1998
Ushuaia, ARGENTINA		28 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise EX-806**

March 1998

78 PAX; 14 STAFF; 61 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 FEB 1998
at sea		01-02 MAR 1998
Cuverville Island	92	03 MAR 1998
Ronge Island	92	03 MAR 1998
Skontorp Cove, Paradise Bay	90	03 MAR 1998

Palmer Station, Anvers Island	94	04 MAR 1998
Petermann Island	87	04 MAR 1998
Port Lockroy, Wiencke Island	2	04 MAR 1998
Telefon Bay, Deception Island	92	05 MAR 1998
Pendulum Cove, Deception Island	92	05 MAR 1998
Half Moon Island	92	05 MAR 1998
Point Wild, Elephant Island	73*	06 MAR 1998
at sea		07-08 MAR 1998
South Georgia		09-12 MAR 1998
at sea		13-14 MAR 1998
Southeast Falkland Islands		15 MAR 1998
Port Stanley, FALKLAND ISLANDS		16 MAR 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

## Society Expeditions

Society Expeditions of Seattle, Washington, conducted a total of eight cruises to the Antarctic Peninsula during the 1997-98 season using the M/V World Discoverer. Given below, for each cruise, is the port of origin, sites visited (with dates), and the return port.

### M/V WORLD DISCOVERER

#### **Cruise WD-#70911**

November 1997

116 PAX; 14 STAFF; 74 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Ushuaia, ARGENTINA		09 NOV 1997
at sea		10-11 NOV 1997
Almirante Brown Station, Paradise Bay	153	12 NOV 1997
Port Lockroy, Wiencke Island	82	12 NOV 1997
Palmer Station, Anvers Island	149	13 NOV 1997

Petermann Island	126	13 NOV 1997
Cuerville Island	130	14 NOV 1997
Baily Head, Deception Island	88	15 NOV 1997
Whalers Bay, Deception Island	94	15 NOV 1997
Hannah Point, Livingston Island	88	15 NOV 1997
Turret Point, King George Island (KGI)	107	16 NOV 1997
Comandante Ferraz Station, KGI	121	17 NOV 1998
Aitcho Island	120	17 NOV 1997
at sea		18-19 NOV 1997
Ushuaia, ARGENTINA		20 NOV 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise WD-#72011**

November 1997

69 PAX; 15 STAFF; 73 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 NOV 1997
at sea		21-22 NOV 1997
Petermann Island	72	23 NOV 1997
Gonzales Videla Station, Paradise Bay	103	23 NOV 1997
Palmer Station, Anvers Island	103	24 NOV 1997
Torgersen Island	83	24 NOV 1997
Port Lockroy, Wiencke Island	78	24 NOV 1997
Whalers Bay, Deception Island	93	25 NOV 1997
Aitcho Islands	60	25 NOV 1997
Penguin Island	88	26 NOV 1997
Turret Point, King George Island (KGI)	88	26 NOV 1997
Arctowski Station, King George Island	90	26 NOV 1997
Cape Lookout, Elephant Island	5	27 NOV 1997
at sea		28-29 NOV 1997

West Point/Carcass Island, Falkland Is. 30 NOV 1997  
 Port Stanley, FALKLAND ISLANDS 01 DEC 1997  
<sup>1</sup> = Includes passengers, staff and crew landed  
 \* = zodiac cruising only

**Cruise WD-#70112**  
 December 1997  
 123 PAX; 16 STAFF; 74 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		01 DEC 1997
at seal		02-03 DEC 1997
South Georgia		04-06 DEC 1997
at sea		07-08 DEC 1997
Cape Lookout, Elephant Island	131	09 DEC 1997
Penguin Island	119	10 DEC 1997
Turret Point, King George Island	118	10 DEC 1997
Cuverville Island	122	11 DEC 1997
Ronge Island	123	11 DEC 1997
Gonzales Videla Station, Paradise Bay	110	11 DEC 1997
Vernadsky Station, Argentine Island	136	12 DEC 1997
Petermann Island	116	12 DEC 1997
Baily Head, Deception Island	103	13 DEC 1997
Whalers Bay, Deception Island	105	13 DEC 1997
Hannah Point, Livingston Island	105	13 DEC 1997
at sea		14-15 DEC 1997
Port Stanley, FALKLAND ISLANDS		16 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed  
 \* = zodiac cruising only

**Cruise WD-#71612**  
December 1997/January 1998  
103 PAX; 10 STAFF; 73 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		16 DEC 1997
Carcass/New Island		17 DEC 1997
East Falkland Islands		18 DEC 1997
at sea		19-20 DEC 1997
South Georgia		21-23 DEC 1997
at sea		24 DEC 1997
South Orkneys		25 DEC 1997
Elephant Island	99	26 DEC 1997
Paulet Island	118	27 DEC 1997
Penguin Island	116	28 DEC 1997
Comandante Ferraz Station, King George Is.	119	28 DEC 1997
Hannah Point, Livingston Island	119	29 DEC 1997
Baily Head, Deception Island	106	29 DEC 1997
Whalers Bay, Deception Island	104	29 DEC 1997
Cuerverville Island	102	29 DEC 1997
Georges Point, Ronge Island	101	30 DEC 1997
Dorian Bay, Wiencke Island	57	30 DEC 1997
Port Lockroy, Wiencke Island	107	30 DEC 1997
Petermann Island	87	31 DEC 1997
Almirante Brown Station, Paradise Bay	97	31 DEC 1997
at sea		01-02 JAN 1998
Ushuaia, ARGENTINA		03 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise WD-#80301**

January 1998  
125 PAX; 14 STAFF; 73 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Ushuaia, ARGENTINA		03 JAN 1998
at sea		04-05 JAN 1998
Aitcho Island	142	05 JAN 1998
Paulet Island	142	06 JAN 1998
Hannah Point, Livingston Island	140	07 JAN 1998
Baily Head, Deception Island	127	07 JAN 1998
Whalers Bay, Deception Island	139	07 JAN 1998
Palmer Station, Anvers Island	147	08 JAN 1998
Torgersen Island	141	08 JAN 1998
Port Lockroy, Wiencke Island	143	08 JAN 1998
Petermann Island	107	09 JAN 1998
Vernadsky Station, Argentine Islands	141	09 JAN 1998
Detaille Island	132	10 JAN 1998
Prospect Point, Graham Land	91	10 JAN 1998
Cuerverville Island	42	11 JAN 1998
Georges Point, Ronge Island	83	11 JAN 1998
Almirante Brown Station, Paradise Bay	129	11 JAN 1998
Drake Passage (at sea)		12-13 JAN 1998
Ushuaia, ARGENTINA		14 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise WD-#81401**

January 1998  
123 PAX; 14 STAFF; 74 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Ushuaia, ARGENTINA		14 JAN 1998
at sea		15-16 JAN 1998
Cuverville Island	130	17 JAN 1998
Georges Point, Ronge Island	121	17 JAN 1998
Almirante Brown Station, Paradise Bay	138	17 JAN 1998
Vernadsky Station, Argentine Island	130	18 JAN 1998
Petermann Island	125	18 JAN 1998
Palmer Station, Anvers Island	125	19 JAN 1998
Torgersen Island	121	19 JAN 1998
Port Lockroy, Wiencke Island	123	19 JAN 1998
Telefon Bay, Deception Island	109	20 JAN 1998
Pendulum Cove, Deception Island	61	20 JAN 1998
Whalers Bay, Deception Island	107	20 JAN 1998
Paulet Island	121	21 JAN 1998
Point Wild, Elephant Island	135	22 JAN 1998
South Orkneys		23 JAN 1998
at sea		24 JAN 1998
South Georgia		25-27 JAN 1998
at sea		28-29 JAN 1998
Sea Lion Island, Falklands		30 JAN 1998
Port Stanley, FALKLAND ISLANDS		31 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only



**Cruise WD-#83101**

February 1998  
122 PAX; 13 STAFF; 74 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		31 JAN 1998
at sea		01-02 FEB 1998
Aitcho Islands	130	03 FEB 1998
Half Moon Island	125	03 FEB 1998
Dorian Bay, Wiencke Island	106	04 FEB 1998
Palmer Station, Anvers Island	134	04 FEB 1998
Torgersen Island	130	04 FEB 1998
Petermann Island	117	05 FEB 1998
Almirante Brown Station, Paradise Bay	132	05 FEB 1998
Baily Head, Deception Island	103	06 FEB 1998
Pendulum Cove, Deception Island	94	06 FEB 1998
Point Wild, Elephant Island	132*	07 FEB 1998
Gibbon Bay, Coronation Island, S. Orkneys	115	08 FEB 1998
at sea		09 FEB 1998
South Georgia		10-12 FEB 1998
at sea		13-15 FEB 1998
Port Stanley, FALKLAND ISLANDS		16 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise WD-#81602**

February/March 1998  
134 PAX; 14 STAFF; 74 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		16 FEB 1998
West Point/Carcass Island		17 FEB 1998
at sea		18-19 FEB 1998
Hannah Point, Livingston Island	113	20 FEB 1998
Whalers Bay, Deception Island	129	20 FEB 1998

Cuverville Island	135	21 FEB 1998
Georges Point, Ronge Island	135	21 FEB 1998
Almirante Brown Station, Paradise Bay	156	21 FEB 1998
Gunnel Channel	75*	22 FEB 1998
Bongrain Point, Pourqoi Pas Island	80	22 FEB 1998
Detaille Island	140	23 FEB 1998
Port Lockroy, Wiencke Island	140	24 FEB 1998
Drake Passage (at sea)		25-26 FEB 1998
Beagle Channel		27 FEB 1998
Chilean Fjords (cruising)		28 FEB - 03 MAR 1998
Chiloe Island		04 MAR 1998
Puerto Montt, CHILE		05 MAR 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

## Quark Expeditions

Quark Expeditions of Darien, Connecticut, conducted approximately 21 cruises to the Antarctic during 1997-98 using three chartered vessels. The Professor Molchanov will conduct 10 cruises, of which 7 cruises were sub-chartered by Aurora Expeditions located in Manly, Australia. The Professor Multanovskiy conducted 7 cruises and Kapitan Khlebnikov conducted a total of four cruises, two of which were sub-chartered, one cruise each by Zegrahm Expeditions of Seattle, Washington, and Aurora Expeditions of Manly, Australia. Provided below for each cruise of all three vessels, is the port of origin, sites visited (with dates) and the return port.

### PROFESSOR MOLCHANOV

#### **Cruise MOL#790**

November 1997

50 PAX; 6 STAFF; 24 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Puerto Madryn, ARGENTINA		04 NOV 1997
<i>National Science Foundation Arlington, Virginia 22230 November 30, 1998</i>		<i>126</i>

at sea		05-06 NOV 1997
Falkand Islands		07-08 NOV 1997
at sea		09-10 NOV 1997
South Georgia		11-14 NOV 1997
at sea		15 NOV 1997
South Orkneys		16 NOV 1997
Elephant Island		17 NOV 1997
at sea		18 NOV 1997
Hannah Point, Livingston Island	52	19 NOV 1997
Whalers Bay, Deception Island	57	19 NOV 1997
Cuerverville Island	56	20 NOV 1997
Neko Harbor, Andvord Bay	56	20 NOV 1997
Almirante Brown Station, Paradise Bay	56	20 NOV 1997
Drake Passage (at sea)		21-22 NOV 1997
Ushuaia, ARGENTINA		23 NOV 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise MOL#791**

November/December 1997

51 PAX; 6 STAFF; 24 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Ushuaia, ARGENTINA		23 NOV 1997
at sea		24 NOV 1997
Westpoint/New Island, Falkland Islands		25 NOV 1997
Carcass Island		26 NOV 1997
at sea		27-29 NOV 1997
South Georgia		30 NOV - 02 DEC 1997
at sea		03-04 DEC 1997
Cape Lookout, Elephant Island	59	05 DEC 1997
Penguin Island	60	06 DEC 1997
Turret Point, King George Island	60	06 DEC 1997
Neko Harbor, Andvord Bay	58	07 DEC 1997

Hovgaard Island	54*	07 DEC 1997
Whalers Bay, Deception Island	57	08 DEC 1997
Drake Passage (at sea)		08-10 DEC 1997
Ushuaia, ARGENTINA		11 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise ANP10**  
**Sub-Chartered by Aurora Expeditions of Manly, Australia**  
December 1997  
52 PAX; 8 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		11 DEC 1997
Drake Passage (at sea)		12-13 DEC 1997
Aitcho Island	60	13 DEC 1997
Baily Head, Deception Island	57	14 DEC 1997
Pendulum Cove, Deception Island	58	14 DEC 1997
Danco Island	60	15 DEC 1997
Neko Harbor, Andvord Bay	54	15 DEC 1997
Petermann Island	55	16 DEC 1997
Vernadsky Station, Argentine Island	62	16 DEC 1997
Almirante Brown Station, Paradise Bay	56	17 DEC 1997
Portal Point, Charlotte Bay	54	17 DEC 1997
Hydrurga Rocks	54	18 DEC 1997
Christiania Islands	54	18 DEC 1997
Drake Passage (at sea)		19-20 DEC 1997
Ushuaia, ARGENTINA		21 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise ANP11**  
**Sub-Chartered by Aurora Expeditions of Manly, Australia**  
January 1998  
52 PAX; 7 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		21 DEC 1997
Drake Passage (at sea)		22-23 DEC 1997
Aitcho Island	57	23 DEC 1997
Brown Bluff, Tabarin Peninsula	56	24 DEC 1997
Astrolabe Island	53	25 DEC 1997
Whalers Bay, Deception Island	56	25 DEC 1997
Pendulum Cove, Deception Island	45	25 DEC 1997
Cuverville Island	57	26 DEC 1997
Neko Harbor, Andvord Bay	44	26 DEC 1997
Vernadsky Station, Argentine Island	58	27 DEC 1997
Petermann Island	44	27 DEC 1997
Damoy Point, Wiencke Island	26	27 DEC 1997
Port Lockroy, Wiencke Island	51	28 DEC 1997
Hydrurga Rocks	54	28 DEC 1997
Drake Passage (at sea)		29-30 DEC 1997
Ushuaia, ARGENTINA		31 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise ANP12**  
**Sub-Chartered by Aurora Expeditions of Manly, Australia**  
January 1998  
51 PAX; 5 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		31 DEC 1997
Drake Passage (at sea)		01-02 JAN 1998
Penguin Island	60	02 JAN 1998
Brown Bluff, Tabarin Peninsula	57	03 JAN 1998

Esperanza Station, Hope Bay	51	03 JAN 1998
Mikkelsen Harbor, Trinity Island	59	04 JAN 1998
Christiania Islands	59*	04 JAN 1998
Cuverville Island	55	05 JAN 1998
Almirante Brown Station, Paradise Bay	52	05 JAN 1998
Vernadsky Station, Argentine Island	55	06 JAN 1998
Petermann Island	50	06 JAN 1998
Port Lockroy, Wiencke Island	58	06 JAN 1998
Damoy Point, Wiencke Island	50	06 JAN 1998
Whalers Bay, Deception Island	56	07 JAN 1998
Pendulum Cove, Deception Island	50	07 JAN 1998
Drake Passage (at sea)		08-09 JAN 1998
Ushuaia, ARGENTINA		10 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

***Cruise ASG02***

***Sub-Chartered by Aurora Expeditions of Manly, Australia***

January 1998

53 PAX; 7 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Ushuaia, ARGENTINA		10 JAN 1998
Drake Passage (at sea)		11-12 JAN 1998
Falkland Islands		13 JAN 1998
at sea		14-15 JAN 1998
South Georgia		16-19 JAN 1998
at sea		20 JAN 1998
Gibbon Bay, Coronation Island	44	21 JAN 1998
at sea		22 JAN 1998
Brown Bluff, Tabarin Peninsula	59	23 JAN 1998
Cuverville Island	60	24 JAN 1998
Paradise Bay	58*	24 JAN 1998
Pendulum Cove, Deception Island	58	25 JAN 1998
Whalers Bay, Deception Island	59	25 JAN 1998

Hannah Point, Livingston Island	25 JAN 1998
Drake Passage (at sea)	26-27 JAN 1998
Ushuaia, ARGENTINA	28 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

**Cruise ANP13**  
**Sub-Chartered by Aurora Expeditions of Manly, Australia**  
January/February 1998  
52 PAX; 7 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 JAN 1998
Drake Passage (at sea)		29-30 JAN 1998
Aitcho Island	57	31 JAN 1998
Baily Head, Deception Island	64	31 JAN 1998
Pendulum Cove, Deception Island	52	31 JAN 1998
Curtiss Bay, Graham Land	57	01 FEB 1998
Cuverville Island	57*	01 FEB 1998
Vernadsky Station, Argentine Island	58	02 FEB 1998
Pleneau Island	43@	02 FEB 1998
Port Lockroy, Wiencke Island	56	03 FEB 1998
Paradise Bay	56*	03 FEB 1998
Hydrurga Rocks	57	04 FEB 1998
Hannah Point, Livingston Island	55	04 FEB 1998
Drake Passage (at sea)		05-06 FEB 1998
Ushuaia, ARGENTINA		07 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only  
@ = camping

**Cruise ANP14**  
**Sub-Chartered by Aurora Expeditions of Manly, Australia**  
February 1998  
53 PAX; 7 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		07 FEB 1998
Drake Passage (at sea)		08-09 FEB 1998
Brown Bluff, Tabarin Peninsula	57	10 FEB 1998
Esperanza Station, Hope Bay	50	10 FEB 1998
Half Moon Island	35	11 FEB 1998
Cierva Cove, Graham Land	56*	12 FEB 1998
Cuerverville Island	58	12 FEB 1998
Pleneau Island	59	13 FEB 1998
Port Lockroy, Wiencke Island	57	13 FEB 1998
Paradise Bay	46*	13 FEB 1998
Hydrurga Rocks	34	14 FEB 1998
Whalers Bay, Deception Island	57	14 FEB 1998
Drake Passage (at sea)		15-16 FEB 1998
Ushuaia, ARGENTINA		17 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise CAP03**  
**Sub-Chartered by Aurora Expeditions of Manly, Australia**  
February 1998  
51 PAX; 9 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 FEB 1998
Drake Passage (at sea)		18-19 FEB 1998
Whalers Bay, Deception Island	58	19 FEB 1998
Orne Harbor, Graham Land	57	20 FEB 1998
Cuerverville Island	24	20 FEB 1998
Peon Peak	33	20 FEB 1998



Port Lockroy, Wiencke Island	59	21 FEB 1998
Vernadsky Station, Argentine Island	63	21 FEB 1998
Detaille Island	59	22 FEB 1998
Adelaide Island	57	22 FEB 1998
Horsehoe Island	55	23 FEB 1998
Bennett Islands	56	23 FEB 1998
Pleneau Island	59	24 FEB 1998
Petermann Island	58	24 FEB 1998
Intercurrence Island	55*	25 FEB 1998
Hannah Point, Livingston Island	51	25 FEB 1998
Drake Passage (at sea)		26-27 FEB 1998
Ushuaia, ARGENTINA		28 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise MOL#805**

February/March 1998

39 PAX; 6 STAFF; 23 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 FEB 1998
Drake Passage (at sea)		01-02 MAR 1998
Wordie Point	50	03 MAR 1998
Vernadsky Station, Argentine Island	55	03 MAR 1998
Pleneau Bay	49*	03 MAR 1998
Petermann Island	52	03 MAR 1998
Port Lockroy, Wiencke Island	51	04 MAR 1998
Petzval Glacier	49*	04 MAR 1998
Almirante Brown Station, Paradise Bay	50	04 MAR 1998
Whalers Bay, Deception Island	53	05 MAR 1998
Bellingshausen Station, King George Island	57	05 MAR 1998
Elephant Island		06 MAR 1998
at sea		07-08 MAR 1998
South Georgia		09-12 MAR 1998
at sea		13-14 MAR 1998

Falkland Islands	15-16 MAR 1998
at sea	17 MAR 1998
Ushuaia, ARGENTINA	18 MAR 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

## PROFESSOR MULTANOVSKIY

### **Cruise MUL#710**

November/December 1997

47 PAX; 7 STAFF; 25 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		23 NOV 1997
at sea		24 NOV 1997
Falkland Islands		25-27 NOV 1997
at sea		28-30 NOV 1997
South Georgia		01-06 DEC 1997
at sea		07-09 DEC 1997
Baily Head, Deception Island	48	10 DEC 1997
Hannah Point, Livingston Island	54	10 DEC 1997
Neko Harbor, Andvord Bay	51	11 DEC 1997
Port Lockroy, Wiencke Island	47	11 DEC 1997
Cuverville Island	34	12 DEC 1997
Esperanza Station, Hope Bay	41	13 DEC 1997
Esperanza Station, Hope Bay	55	14 DEC 1997
at sea		15-16 DEC 1997
Ushuaia, ARGENTINA		17 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise MUL#711**  
December 1997  
48 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 DEC 1997
at sea		18-19 DEC 1997
Penguin Island	55	19 DEC 1997
Brown Bluff, Tabarin Peninsula	54	20 DEC 1997
Aitcho Island	56	21 DEC 1997
Half Moon Island	58	21 DEC 1997
Almirante Brown Station, Paradise Bay	58	22 DEC 1997
Cuverville Island	56	22 DEC 1997
Palmer Station, Anvers Island	58	23 DEC 1997
Port Lockroy, Wiencke Island	56	23 DEC 1997
Melchoir Island	49*	24 DEC 1997
Whalers Bay, Deception Island	56	25 DEC 1997
Pendulum Cove, Deception Island	58	25 DEC 1997
Hannah Point, Livingston Island	52	25 DEC 1997
at sea		26-27 DEC 1997
Ushuaia, ARGENTINA		28 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

**Cruise MUL#712**  
December 1997/January 1998  
57 PAX; 7 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 DEC 1997
at sea		29 DEC 1997
Falkland Islands		30-31 DEC 1997
at sea		01-03 JAN 1998
South Georgia		05-07 JAN 1998
at sea		08 JAN 1998
Point Wild, , Elephant Island	53*	09 JAN 1998

Paulet Island	56	10 JAN 1998
Brown Bluff, Tabarin Peninsula	51	10 JAN 1998
Goudier Island	53	11 JAN 1998
Port Lockroy, Wiencke Island	53	11 JAN 1998
Petermann Island	53	12 JAN 1998
Cuerverville Island	53	12 JAN 1998
Whalers Bay, Deception Island	51	13 JAN 1998
Pendulum Cove, Deception Island	51	13 JAN 1998
Half Moon Island	53	13 JAN 1998
Drake Passage (at sea)		14-15 JAN 1998
Ushuaia, ARGENTINA		16 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

***Cruise MUL#801***

January 1998

48 PAX; 8 STAFF; 25 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Ushuaia, ARGENTINA		16 JAN 1998
Drake Passage (at sea)		17-18 JAN 1998
Arctowski Station, King George Island	62	19 JAN 1998
Bellingshausen Station, King George Island	66	19 JAN 1998
Hannah Point, Livingston Island	56	20 JAN 1998
Telefon Bay, Deception Island	55	20 JAN 1998
Pendulum Cove, Deception Island	46	20 JAN 1998
Whalers Bay, Deception Island	55	20 JAN 1998
Metchinoff Point, Brabant Island	55	21 JAN 1998
Melchoir Island	57*	21 JAN 1998
Port Lockroy, Wiencke Island	55	21 JAN 1998
Goudier Island	55	21 JAN 1998
Petermann Island	55	22 JAN 1998
Almirante Brown Station, Paradise Bay	57	22 JAN 1998
Paradise Bay	57*	22 JAN 1998
Cuerverville Island	55	22 JAN 1998

Buls Bay, Brabant Island	56	23 FEB 1998
Drake Passage (at sea)		24-25 JAN 1998
Ushuaia, ARGENTINA		26 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

**Cruise MUL#802**  
January/February 1998  
53 PAX; 5 STAFF; 25 CRW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		26 JAN 1998
Drake Passage (at sea)		27-28 JAN 1998
Turret Point, King George Island	54	28 JAN 1998
Paulet Island	54	29 JAN 1998
Brown Bluff, Tabarin Peninsula	51	29 JAN 1998
Hannah Point, Livingston Island	55	30 JAN 1998
Whalers Bay, Deception Island	55	30 JAN 1998
Telefon Bay, Deception Island	44	30 JAN 1998
Pendulum Cove, Deception Island	36	30 JAN 1998
Cuverville Island	56	31 JAN 1998
Almirante Brown Station, Paradise Bay	57	31 JAN 1998
Port Lockroy, Wiencke Island	56	31 JAN 1998
Petermann Island	54	01 FEB 1998
Melchoir Island	52*	01 FEB 1998
Half Moon Island	57	02 FEB 1998
Aitcho Island	56	02 FEB 1998
Drake Passage (at sea)		03-04 FEB 1998
Ushuaia, ARGENTINA		05 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

**Cruise MUL#803**

February 1998  
48 PAX; 7 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 FEB 1998
Drake Passage (at sea)		06-07 FEB 1998
Half Moon Island	56	07 FEB 1998
Hannah Point, Livingston Island	52	08 FEB 1998
Pendulum Cove, Deception Island	52	08 FEB 1998
Whalers Bay, Deception Island	45	08 FEB 1998
Melchoir Island	55*	09 FEB 1998
Port Lockroy, Wiencke Island	55	09 FEB 1998
Palmer Station, Anvers Island	53	10 FEB 1998
Torgersen Island	51	10 FEB 1998
Petermann Island	42	10 FEB 1998
Almirante Brown Station, Paradise Bay	38	11 FEB 1998
Andvord Bay	32*	11 FEB 1998
Cuerverville Island	47	11 FEB 1998
Yankee Harbor, Greenwich Island	53	12 FEB 1998
Aitcho Island	47	12 FEB 1998
Drake Passage (at sea)		13-14 FEB 1998
Ushuaia, ARGENTINA		15 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

**Cruise MUL#804**

February 1998  
51 PAX; 7 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		15 FEB 1998
Drake Passage (at sea)		16-17 FEB 1998
Maxwell Bay, King George Island	70	17 FEB 1998
Brown Bluff, Tabarin Peninsula	53	18 FEB 1998

Mikkelsen Harbor, Trinity Island	55	19 FEB 1998
Cierva Cove, Graham Land	47*	19 FEB 1998
Port Lockroy, Wiencke Island	52	20 FEB 1998
Petermann Island	52	20 FEB 1998
Almirante Brown Station, Paradise Bay	55	21 FEB 1998
Cuerverville Island	46	21 FEB 1998
Whalers Bay, Deception Island	58	22 FEB 1998
Pendulum Cove, Deception Island	33	22 FEB 1998
Hannah Point, Livingston Island	49	22 FEB 1998
Drake Passage (at sea)		23-24 FEB 1998
Ushuaia, ARGENTINA		25 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

## **M/V KAPITAN KHLEBNIKOV**

### ***Cruise KK#701***

#### ***Sub-Chartered by Zegrahm Expeditions of Seattle, Washington***

November/December 1997

91 PAX; 12 STAFF; 69 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Port Elizabeth		19 NOV 1997
at sea		20-23 NOV 1997
Crozet Island		24-25 NOV 1997
at sea		26-27 NOV 1997
Kerguelen Island		28-29 NOV 1997
Heard Island		30 NOV - 01 DEC 1997
at sea		02-04 DEC 1997
Kloa Point Rookery, Edward VIII Plateau	118#	05 DEC 1997
Auster Rookery	115#	06 DEC 1997
Scullin Monolith	115#	07 DEC 1997
Cape Darnley, Bjerko Peninsula	98#	08 DEC 1997
Zhongshan Station	106#	09 DEC 1997

Hovde Cove, Prydz Bay	111#	09 DEC 1977
Davis Station	115#	10 DEC 1997
at sea		11-21 DEC 1997
Freemantle, AUSTRALIA		22 DEC 1997

<sup>1</sup> = Includes passengers, staff and crew landed  
# = helicopter landing

**Cruise KK#731**  
**Sub-Chartered by Aurora Expeditions of Manly, Australia**  
December 1997/January 1998  
107 PAX; 11 STAFF; 70 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Freemantle, AUSTRALIA		23 DEC 1997
at sea		24 DEC - 05 JAN 1998
Mawson Station/Auster Rookery	127#	06 JAN 1998
Murray Monolith	119	07 JAN 1998
Cape Darnley, Bjerko Peninsula	125#	08 JAN 1998
Larsemann Hills, Prydz Bay	116#	09 JAN 1998
Amanda Bay	118#	10 JAN 1998
Rauer Islands	119	10 JAN 1998
Davis Station	128#	11 JAN 1998
at sea		12-20 JAN 1998
Hobart, AUSTRALIA		21 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
# = helicopter landing

**Cruise KK#801**  
January/February 1998  
113 PAX; 13 STAFF; 65 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Hobart, AUSTRALIA		22 JAN 1998
at sea		23-24 JAN 1998
Macquarie Island		25-26 JAN 1998
at sea		27-29 JAN 1998



Cape Adare	130	29 JAN 1998
Coulman Island	121+	30 JAN 1998
Franklin Island	126	31 JAN 1998
Ross Ice Shelf	127#	31 JAN 1998
Cape Bird	103	01 FEB 1998
Cape Royds, Ross Island	31	01 FEB 1998
Cape Evans, Ross Island	124	01 FEB 1998
McMurdo Station, Ross Island	121	02 FEB 1998
Scott Base, Ross Island	115#	02 FEB 1998
Cape Royds, Ross Island	109	03 FEB 1998
Taylor Valley	127#	03 FEB 1998
Terra Nova Bay Station	146	04 FEB 1998
Campbell Ice Tongue	129*	04 FEB 1998
Cape Hallett	141+	05 FEB 1998
at sea		06-10 FEB 1998
Enderby Island		11 FEB 1998
at sea		12-13 FEB 1998
Hobart, AUSTRALIA		14 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

# = helicopter landing

+ = helicopter flight seeing

**Cruise KK#802**

February/March 1998

71 PAX; 12 STAFF; 64 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Hobart, AUSTRALIA		14 FEB 1998
at sea		15-16 FEB 1998
Macquarie Island		17-18 FEB 1998
at sea		19-20 FEB 1998
Sturge Island, Balleny Islands	86+	21 FEB 1998
Cape Adare	89	22 FEB 1998
Terra Nova Bay Station	99	23 FEB 1998

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Inexpressible Island	84	23 FEB 1998
Drygalski Ice Tongue	75*	23 FEB 1998
Taylor Valley	90#	24 FEB 1998
McMurdo Station, Ross Island	99	25 FEB 1998
Scott Base, Ross Island	84#	25 FEB 1998
Cape Evans, Ross Island	93	25 FEB 1998
Cape Royds, Ross Island	77#	25 FEB 1998
Ross Ice Shelf	87#	26 FEB 1998
Hallett Station	87	27 FEB 1998
Edisto Inlet	121#	27 FEB 1998
at sea		28 FEB - 02 MAR 1998
Macquarie Island		03 04 MAR 1998
Campbell Island		05 MAR 1998
Enderby Island		05 MAR 1998
Snares Island		06 MAR 1998
at sea		07 MAR 1998
Lyttleton, NEW ZEALAND		08 MAR 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

# = helicopter landing

+ = helicopter flight seeing

## **Orient Lines, Inc.**

Orient Lines, Inc. of Fort Lauderdale, Florida, conducted a total of 4 cruises to the Antarctic during the 1997-98 season using the Marco Polo. Given below for each cruise, is the port of origin, sites visited (with dates) and the return port.

## MARCO POLO

### **Cruise MPO #9712211**

December 1997/January 1998  
530 PAX; 18 STAFF; 354 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Buenos Aires, ARGENTINA		21 DEC 1997
at sea		22-24 DEC 1997
Falkland Islands		25-26 DEC 1997
at sea		27 DEC 1997
Pendulum Cove, Deception Island	576	28 DEC 1997
Port Lockroy, Wiencke Island	665	29 DEC 1997
Gonzales Videla Station, Waterboat Point	563	30 DEC 1997
Half Moon Island	499	31 DEC 1997
at sea		01-02 JAN 1998
Ushuaia, ARGENTINA		03 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

### **Cruise MPO #980103**

January 1998  
490 PAX; 18 STAFF; 348 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		03 JAN 1998
at sea		04 JAN 1998
Pendulum Cove, Deception Island	547	05 JAN 1998
Port Lockroy, Wiencke Island	590	06 JAN 1998
Gonzales Videla Station, Waterboat Point	535	07 JAN 1998
Half Moon Island	497	08 JAN 1998

at sea	09-10 JAN 1998
Ushuaia, ARGENTINA	11 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

**Cruise MPO #980111**  
January 1998  
542 PAX; 18 STAFF; 347 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		11 JAN 1998
at sea		12 JAN 1998
Pendulum Cove, Deception Island	566	13 JAN 1998
Gonzales Videla Station, Waterboat Point	553	14 JAN 1998
Port Lockroy, Wiencke Island	560	15 JAN 1998
Cuerverville Island	468*	15 JAN 1998
Half Moon Island	544	16 JAN 1998
at sea		17 JAN 1998
Ushuaia, ARGENTINA		18 JAN 1998

<sup>1</sup> = Includes passengers, staff and crew landed  
\* = zodiac cruising only

**Cruise MPO #980119**  
January/February 1998  
450 PAX; 20 STAFF; 346 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		19 JAN 1998
at sea		20 JAN 1998
Half Moon Island	508	21 JAN 1998
Gonzales Videla Station, Waterboat Point	481	22 JAN 1998
Hovgaard Island	440	22 JAN 1998
Port Lockroy, Wiencke Island	430	23 JAN 1998

at sea		24-31 JAN 1998
Cape Evans, Ross Island	508	01 FEB 1998
Cape Bird, Ross Island	322*	02 FEB 1998
Granite Harbor, Victoria Land	349*	03 FEB 1998
Cape Royds, Ross Island	493	04 FEB 1998
Terra Nova Bay Station	470	05 FEB 1998
at sea		06-10 FEB 1998
Lyttelton, NEW ZEALAND		11 FEB 1998

<sup>1</sup> = Includes passengers, staff and crew landed

\* = zodiac cruising only

## Other

In addition, several other organizations arranged/conducted or supported tourism activities in the Antarctic during the 1997-98 season. These organizations are not U.S.-based, although some American citizens are involved. The Treaty Party Member of the country where the company is based should report on those activities.

### SHIPBORNE

a) Hapag-Lloyd Cruises of Hamburg, Germany, operated two vessels in the Antarctic Peninsula during the 1997-98 season. The Hanseatic conducted 6 cruises and the Bremen conducted 7 cruises.

b) Marine Expeditions of Toronto, Canada, conducted 32 cruises to the Antarctic Peninsula during the 1997-98 season. The Akademik Shuleykin conducted 11 cruises, the Akademik Ioffe did 11 cruises, and the Disko conducted a total of 10 cruises.

## **XI. Refuges**

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*Section XI of the Modifications of Activities Planned for 1997-98 notes changes to existing refuges and survival caches in the McMurdo area as well as deactivated camps and stations elsewhere on the continent. No significant changes to these facilities occurred during the 1997-98 season.*

## **XII. Species Killed, Captured**

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*Section XII of the Modifications of Activities Planned for 1997-98 contains information regarding species killed or captured during this time period. Please see ['Kill/Captured forms'](#).*

## XIII. Radioactive Materials

*Section XIII of the Modifications of Activities Planned for 1997-98 lists any changes in the radioactive materials used during this time period and provides information regarding their form, nuclide, site, and specific use.*

### Add

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
S-116	<sup>14</sup> C	<sup>14</sup> C – Carbonate	R/V NATHANIEL B. PALMER	Research on Ocean- Atmosphere Variability in Ecosystem Response in the Ross Sea (ROAVERRS)
S-216B	<sup>22</sup> Na	<sup>22</sup> Na – sealed source	McMurdo	Astrophysical Gamma-Ray Spectroscopy with the High Resolution Gamma-Ray and Hard X-ray Spectrometer (HIREGS) on Long Duration Balloon Flights



## Delete

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
S-116	<sup>60</sup> Co	<sup>60</sup> Co – sealed source	McMurdo	Astrophysical Gamma-Ray Spectroscopy with the High Resolution Gamma-Ray and Hard X-ray Spectrometer (HIREGS) on Long Duration Balloon Flights

## **XIV. Research Rockets**

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*Section XIV of the Modifications of Activities Planned for 1997-98 reports any deviations from the original plans regarding the use of research rockets in Antarctica. No significant changes are noted.*

## XV. Oceanography- Government

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*Section XV of the Modifications of Activities Planned for 1997-98 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 1997-98 season.*

**Note:** For actual tracks of the Research Vessels NATANIEL B. PALMER and LAURENCE M. GOULD please see Attachment C, [Cruise Tracks](#).

### R/V NATHANIEL B. PALMER

The R/ V NATHANIEL B. PALMER made 8 cruises during the period of 30 March 1997 through 31 March 1998. Cruises are:

**Cruise NBP97-4**

12 May 1997 - 08 June 1997 Transit from Lyttelton, NZ to Valpariso, Chile  
Multibeam Sea Trials

**Cruise NBP97-4A, NBP97-5, NBP97-6, NBP 97-7**

05 July 1997 - 31 October 1997 Weddell Sea and Pacific Ocean (transits from Lyttelton to Valpariso and Punta Arenas to Lyttelton)  
S-203 (Muench) DOVETAIL (Leg 1 and Leg 2)

**Cruise NBP97-8**

05 November, 1997 - 16 December 1997  
JGOFS Process Study 4 Ross Sea

**Cruise NBP97-9**

21 December 1997 - 10 January 10, 1998  
S-216 ROAVERRS (Dunbar), S-048 (Eastman) Ross Sea

**Cruise NBP98-1**

15 January 1998 - 20 February 1998

S-083 (J. Anderson) Timing of Retreat of the West Antarctic Ice Sheet Ross Sea

**Cruise NBP98-2**

25 February 1998 - 05 April 1998

S-228 (Anderson) Benthic Process and Mooring Recovery Ross Sea

**Note:** See [Appendix III](#) for complete list of scientific personnel for each science event (listed by S-number).

	<b>I.D. No.</b>	<b>Institution</b>
Muench, Robin	S-203	Earth & Space Research
Gordon, Arnold		

**Biology & Medicine**

	<b>I.D. No.</b>	<b>Institution</b>
Smith, Walker (+5)	S-233	University of Tennessee
Eastman, Joseph (+2)	S-048	Ohio University
Honjo, Susumu (+3)	S-228	Woods Hole Oceanographic Inst.

**Ocean & Climate**

	<b>I.D. No.</b>	<b>Institution</b>
Dunbar, Robert (+14)	S-216	Rice University

**Geology & Geophysics**

	<b>I.D. No.</b>	<b>Institution</b>
Anderson, John (+6)	S-083	Rice University

**JGOFs Scientific Personnel**

	<b>I.D. No.</b>	<b>Institution</b>
Codispoti, Louis	S-209	Center for Coastal Physical Oceanography, Old Dominion University
Morrison, John	S-210	Department of Marine, Earth & Atmospheric Science, North Carolina State University
Anderson, Robert	S-211	Lamont-Doherty Earth Observatory, Columbia University
Abbott, Mark	S-212	College of Oceanic and Atmospheric Sciences, Oregon State University
Peltzer, Edward	S-213	Monterey Bay Aquarium Research Institute
Takahashi, Taro	S-214	Lamont-Doherty Earth Observatory, Columbia University
Olson, Robert	S-215	Biology Department, Woods Hole Oceanographic Institution
Sayles, Frederick	S-217	Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution
Bender, Michael	S-218	Graduate School of Oceanography, University of Rhode Island
Coale, Kenneth	S-219	Moss Landing Marine Laboratory
Dagg, Michael	S-220	Louisiana Universities Marine Consortium
Quay, Paul	S-221	School of Oceanography, University of Washington
Gardner, Wilford	S-222	Oceanography Department, Texas A & M University
Hansell, Dennis	S-223	Bermuda Biological Station for Research
Buesseler, Ken	S-224	Marine Chemistry and Geochemistry, Woods Hole Oceanographic Inst..

	<b>I.D. No.</b>	<b>Institution</b>
Measures, Christopher	S-225	Department of Oceanography, University of Hawaii
Sambrotto, Raymond	S-226	Lamont-Doherty Earth Observatory, Columbia University
Dymond, Jack	S-227	Oceanic & Atmospheric Sciences, Oregon State University
Honjo, Susumu	S-228	Department of Geology & Geophysics, Woods Hole Oceanographic Inst.
Barber, Richard	S-231	Marine Laboratory, Duke University
Marra, John	S-232	Lamont-Doherty Earth Observatory, Columbia University
Smith, Walker	S-233	Department of Ecology and Evolution- ary Biology, University of Tennessee
Brzezinski, Mark	S-234	Marine Science Institute, University of California, Santa Barbara
Nelson, David	S-235	College of Oceanic and Atmospheric Sciences, Oregon State University
Altabet, Mark	S-236	Center for Marine Science and Techno- logy, University of Massachusetts
Francois, Roger	S-237	Marine Chemistry & Geochemistry, Woods Hole Oceanographic Inst.
Bronk, Deborah	S-238	School of Marine Programs, The University of Georgia
Cochlan, William	S-239	Department of Biological Sciences, University of Southern California
Bacon, Michael	S-240	Marine Chemistry & Geochemistry, Woods Hole Oceanographic Inst.
Cochran, J. Kirk	S-241	Marine Sciences Research Center, State University of New York, Stony Brook
Cowles, Timothy	S-242	College of Oceanic & Atmospheric Sciences, Oregon State University
Azam, Farooq	S-243	Scripps Institution of Oceanography, University of California, San Diego

	<b>I.D. No.</b>	<b>Institution</b>
Ducklow, Hugh	S-244	Department of Biological Sciences, Virginia Institute of Marine Sciences
Kirchman, David	S-245	College of Marine Studies, University of Delaware
Hedges, John	S-246	College of Ocean and Fisheries Sciences, University of Washington
Lee, Cindy	S-247	Marine Sciences Research Center, State University of New York at Stony Brook
Wakeham, Stuart	S-248	Skidaway Institute of Oceanography
Landry, Michael	S-249	Department of Oceanography, University of Hawaii - Manoa
Huntley, Mark	S-250	Scripps Institution of Oceanography, University of California, San Diego
Caron, David	S-251	Department of Biology, Woods Hole Oceanographic Institution
Lonsdale, Darcy	S-252	Marine Sciences Research Center, State University of New York, Stony Brook
Millero, Frank	S-253	RSMAS/MAC, University of Miami
Smith, Walker	S-255	Department of Ecology and Evolution- ary Biology, University of Tennessee
Gordon, Louis	S-256	College of Oceanic and Atmospheric Sciences, Oregon State University
Masten, Douglas	S-258	Scripps Institution of Oceanography, University of California, San Diego
Mitchell, B. Greg	S-261	Scripps Institution of Oceanography, University of California, San Diego
Stramski, Dariusz	S-262	Scripps Institution of Oceanography, University of California, San Diego

## R/V LAURENCE M. GOULD

The R/V LAURENCE M. GOULD made two science cruises to the Antarctic Peninsula during the period of 30 March 1997 through 31 March 1998. Maiden cruise for the R/V LAURENCE M. GOULD was the transit from Port Forchon (December 25, 1997) to Punta Arenas (January 16, 1998). Science cruises that commenced and terminated in Punta Arenas, Chile were:

### **Cruise LMG98-1**

22 January 1998 - 19 February 1998

S-046 (Karl) Long-Term Ecological Research (LTER) Bellingshausen Sea

### **Cruise LMG98-2**

25 February 1998 - 21 March 1998 S-072 (Domack) Holocene

Paleoenvironmental Change along the Antarctic Peninsula, Lallemand Fjord, Drake Sea

**Note:** See [Appendix III](#) for complete list of scientific personnel for each science event (listed by S-number).

## **Biology & Medical Research**

Karl, David (+9) S-046 University of Hawaii

## **Geology & Geophysics**

Domack, Eugene (+16) S-072 Hamilton College

## R/V POLAR DUKE

The R/V POLAR DUKE made 3 cruises during the period 30 March 1997 through 30 May 1997. The R/V POLAR DUKE ended her 10+ year charter with the USAP 30 June 1997.

### **Cruise PD97-2,-3,-4**

03 March 1997 - 02 May 1997

S-036 (Sidell), S-037 (Detrich) Fishing in the Dallman Bay



**Note:** See Appendix III for complete list of scientific personnel for each science event (listed by S-number).

## Biology & Medicine

	I.D. No.	Institution
Sidell, Bruce	S-036	University of Maine
Detrich, William	S-037	Northeastern University

## R/V ABEL-J

The R/V ABEL-J made 4 cruises during the period 30 March 1997 through 30 May 1997. (The R/V ABEL-J was made available to the U.S Antarctic Program by a special contract, necessitated by delays in the availability of the R/V LAURENCE M. GOULD.)

### Cruise LMGR#1

21 November 1997 – 04 December 1997

Palmer Station support. Open NOAA field camp at Cape Shirreff, Livingston Island. Transport one scientist to Copacabana Field Camp, King George Island.

### Cruise LMGR#5

08 December 1997 – 31 December 1997

S-087 (Taylor), S-097 (Wiens) Tectonic research using GPS and seismic methods at various shore locations along the South Shetland archipelago.

### Cruise LMGR#7

03-09 January 1998

Palmer Station support.

Transported S-003 (Day) and S-013 (Fraser) to Palmer Station.

### Cruise LMGR#8

11 January 1998 – 01 February 1998

LTER S-028 (Quetin) support.

**Note:** See [Appendix III](#) for complete list of scientific personnel for each science event (listed by S- number).

## **Geology & Geophysics**

	<b>I.D. No.</b>	<b>Institution</b>
Taylor, Fredrick	S-087	University of Texas
Wiens, Douglas	S-097	Washington University

## **Biology & Medicine**

	<b>I.D. No.</b>	<b>Institution</b>
Quetin, Langdon	S-028	University of California, SB

## **R/V ROGER REVELLE**

The *R/V Roger Revelle*, operated by the Scripps Institution of Oceanography, conducted four cruises (RR06 through RR09) in Antarctic waters on behalf of the U.S. JGOFS Antarctic Environment and Southern Ocean Process Study (AESOPS). Research was conducted on the physical, chemical, and biological influences affecting the phytoplankton bloom, the temporal variability of blooms, and the apparent paradox of high fluxes of biogenic material to the sea bed in a region of low mean annual primary production. Cruises, for the most part, took place along a section at 170°W, between October, 1997 and March, 1998.

### **RR06: AESOPS Spring Survey-I October 20, 1997 - November 24, 1997**

Timothy J. Cowles, Oregon State University, Chief Scientist

The primary objective of the first cruise was to provide mesoscale resolution of the physical, chemical, and biological properties in and around the Antarctic Polar Front. Stations, moorings, drifters and SeaSoar surveys were combined with concurrent underway surface measurements to collect data on these properties and processes.

## **RR06 Scientific Personnel**

### ***SeaSoar Survey and Physical Oceanography***

	<b>I.D. No.</b>	<b>Institution</b>
Timothy J. Cowles	S-242	Oregon State University
Jack Barth	S-242	Oregon State University
Linda Fayler	S-242	Oregon State University
Robert O'Malley	S-242	Oregon State University
Steven Pierce	S-242	Oregon State University
Marc Willis	S-242	Oregon State University
Christopher Wingard	S-242	Oregon State University

### ***Bio-optical Moorings and Physical Oceanography***

Mark Abbott	S-212	Oregon State University
James Richman	S-212	Oregon State University
Dennis Root	S-212	Oregon State University

### ***Hydrography and Nutrients***

Stacey Morgan	S-258	Scripps Institution of Oceanography
Robert Williams	S-258	Scripps Institution of Oceanography
Calvin Mordy	?	Seattle NOAA-PMEL
Mark Cook	S-210	North Carolina State University

### ***Dissolved Organic Carbon***

Catherine Goyet	S-213	Woods Hole Oceanographic Institution
Thomas Kirchlechner	S-213	University of Otago, Dunedin, N.Z.

### ***Iron Biogeochemistry***

Kenneth Coale	S-219	Moss Landing Marine Laboratory
R. Michael Gordon	S-219	Moss Landing Marine Laboratory
Sara Tanner	S-219	Moss Landing Marine Laboratory

**Export Production using Th-234**

Lary Ball	S-224	Woods Hole Oceanographic Institution
Glenn Crossin	S-224	Woods Hole Oceanographic Institution

**Trace metal geochemistry**

Sue Vink	S-225	University of Hawaii
Kendra McDonough	S-225?	University of Hawaii

**Microzooplankton**

Michael Landry	S-302	University of Hawaii
Susan Brown	S-249	University of Hawaii

**Mesozooplankton**

Alejandro Gonzalez	S-250	Scripps Institution of Oceanography
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**Carbon Dioxide System**

Elizabeth Degler	S-253	University of Miami
Xiaorong Zhu	S-253	University of Miami

**Primary Production**

Scott Polk	S-255	University of Tennessee
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**Silicon biogeochemistry**

Valerie Franck	S-234	University of California, Santa Barbara
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**Nitrogen biogeochemistry & nitrogen stable isotopes**

Sarah Stillman	S-236	University of Massachusetts, Dartmouth
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**RR07: AESOPS Process-Study I  
November 30, 1997 - January 8, 1998**

Richard T. Barber, Duke University, Chief Scientist

The purpose of the Process-I cruise was to characterize the biogeochemical processes between 53°S and the edge of the pack ice, located at roughly 64°40'S. Twelve (12) long stations were completed along the U.S. JGOFS 170°W transect, as well as, an intensive six-station section across a subsurface temperature front at 60°50'S in the polar frontal zone. Station work began at 53°S, 174°W on Dec. 5th and proceeded southward toward the pack ice and arriving at the seventh station at 64°09'S, 169°30'W on Dec. 17th.

**RR07 Scientific Personnel**

***Primary Production***

Richard Barber, Chief Scientist	S-231	Duke University
Jonathan Borden	S-231	Duke University
Lisa Borden	S-231	Duke University
Elaine Barber	S-231	Duke University

***Nutrients and Hydrography***

Louis Codispoti	S-209	Old Dominion University
Steven Guarin	S-209	Old Dominion University
Erik Quiroz	S-209	Texas A&M University
Dennis Guffy	S-209	Texas A&M University
James Postel	S-210	University of Washington
Katherine Kroglund	S-209	University of Washington
Scott Hiller	S-258	Scripps Institution of Oceanography

**Gross photosynthesis**

Mary-Lynn Dickson	S-218	University of Rhode Island
Cara Sucher	S-218	University of Rhode Island

**Mesozooplankton**

Jay Peterson	S-220	Louisiana Universities Marine Consortium
Juanita Urban-Rich	S-220	Louisiana Universities Marine Consortium

**Particles and aggregates**

Ian Walsh	S-222	Texas A&M
Jan Gunderson	S-222	Texas A&M
Sarah Searson	S-222	Texas A&M

**Dissolved organic carbon**

Steve Bell	S-223	Bermuda Biological Station
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**Export production by Th-234**

Alan Fleer	S-224	Woods Hole Oceanographic Institution
Peter Landry	S-249	Woods Hole Oceanographic Institution

**Trace metal geochemistry**

Christopher Measures	S-225	University of Hawaii
Amy Elliott	?	University of Washington

**Nitrogen biogeochemistry & new production**

Raymond Sambrotto	S-226	Lamont-Doherty Earth Observatory
Bonnie Mace	S-226	Lamont-Doherty Earth Observatory

**Silicon biogeochemistry**

Mark Brzezinski	S-234	Oregon State University
Daniel Sigmon	S-234	Oregon State University

**Bacterial processes**

Helen Quinby	S-244	Virginia Institute of Marine Science
Laura Fandino	S-244	Scripps Institution of Oceanography

**Microzooplankton**

Colleen Allen	S-249?	University of Hawaii
Karen Selph	S-249	University of Hawaii
Albert Fabregat	S-249?	University of Hawaii

**Carbon dioxide system**

Jason Joliff	S-253	University of Miami
Denis Pierrot	S-253	University of Miami

**RR08: AESOPS Survey-II (Summer Survey)  
January 8, 1998 - February 8, 1998**

Kenneth Coale, Moss Landing Marine Lab, Chief Scientist

Research objectives of the Survey-II cruise were much like those of Survey-I, although ice images that arrived Jan. 16th showed the edge of the sea ice at about 69°30'S along 170°W, so the ice would not restrict access to the AESOPS study area as it had during Survey-I. The R/V *Roger Revelle* steamed south from 57°S, towing the Oregon State University (OSU) SeaSoar and constructing real-time vertical cross-sections of temperature, salinity, density, large particle concentrations and a number of fluorescence parameters. In addition, underway surface water measurements of nutrients, the partial pressure of carbon dioxide (pCO<sub>2</sub>), metals, oxygen, salinity, phytoplankton species and abundance, chlorophyll, silicate uptake, dissolved organic carbon, fluorescence, currents and the meteorological parameters complimented the acquisition of SeaSoar data.

## **RR08 Scientific Personnel**

### ***Iron biogeochemistry***

Kenneth Coale, Chief Scientist	S-219	Moss Landing Marine Laboratory
R. Michael Gordon	S-219	Moss Landing Marine Laboratory
Steve Fitzwater	S-219	Moss Landing Marine Laboratory

### ***Nutrients and hydrography***

Jeff Kinder	S-210	North Carolina State University
Douglas Masten	S-258	Scripps Institution of Oceanography
Leonard Lopez	S-258	Scripps Institution of Oceanography
Susan Becker	S-258	Scripps Institution of Oceanography

### ***Bio-optical moorings and physical oceanography***

Ricardo Letelier	S-212	Oregon State University
Claudia Mengelt	S-212	Oregon State University

### ***Dissolved organic carbon***

Greg Eischeid	S-213	Woods Hole Oceanographic Institution
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### ***Carbon dioxide system***

Stephany Rubin	S-214	Lamont-Doherty Earth Observatory
Rebecca Esmay	S-214	Lamont-Doherty Earth Observatory

### ***Export production by Th-234***

Dave Hirschberg	S-241	State University of New York, Stony Brook
Huan Feng	S-241	State University of New York, Stony Brook



**Trace metal biogeochemistry**

Sue Vink	S-225	University of Hawaii
Kendra McDonough	S-225	University of Hawaii

**Silicon biogeochemistry**

Valerie Franck	S-234	University of California, Santa Barbara
William Golden	S-234	University of California, Santa Barbara

**Nitrogen biogeochemistry and nitrogen stable isotopes**

Mark Altabet	S-236	University of Massachusetts, Dartmouth
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**SeaSoar Survey and physical oceanography**

Chris Wingard	S-242	Oregon State University
Andrew Dale	S-242	Oregon State University
Robert Shearman	S-242	Oregon State University
Robert O'Malley	S-242	Oregon State University
Marc Willis	S-242	Oregon State University
Linda Fayler	S-242	Oregon State University

**Microzooplankton**

Michael Landry	S-249	University of Hawaii
Susan Brown	S-249	University of Hawaii

**Mesozooplankton**

Alejandro Gonzalez	S-250	Scripps Institution of Oceanography
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**Dissolved Organic carbon**

Sarah Goldthwaite	S-255	Bermuda Biological Station for Research
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**Ocean optics**

Berzas Bichnevicius	S-261	Scripps Institution of Oceanography
John Wieland	S-261	Scripps Institution of Oceanography

**RR09: AESOPS Process Study-II  
February 13, 1998 - March 19, 1998**

Wilford D. Gardner, Texas A&M University, Chief Scientist

The final AESOPS Antarctic Polar Frontal Zone (APFZ) cruise left Lyttelton, New Zealand, on Feb. 13, 1998. The purposes of the cruise were to characterize fall biogeochemical processes from north to south of the APFZ along the 170°W transect, to determine whether the bloom had continued southward, and to compare pre-bloom, post-bloom and full bloom conditions, if possible.

**RR09 Scientific Personnel**

***Particles and aggregates***

Wilford Gardner, Chief Scientist	S-222	Texas A&M University
Jan Gunderson	S-222	Texas A&M University
Sarah Searson	S-222	Texas A&M University

***Nutrients and Hydrography***

Mark Cook	S-210	North Carolina State University
Dennis Guffy	S-209?	Texas A&M
Scott Hiller	S-258	Scripps Institution of Oceanography
Tammy Koonce	S-258	Scripps Institution of Oceanography
Kathy Kroglund	S-209	University of Washington
Robert Masserini	S-209	University of South Florida
Erik Quiroz	S-209	Texas A&M
Robert Williams	S-258	Scripps Institution of Oceanography

***Carbon Dioxide System***

Heather Anderson	S-214?	Lamont-Doherty Earth Observatory
Stephany Rubin	S-214	Lamont-Doherty Earth Observatory

**Phytoplankton physiology**

Robert Olson	S-215	Woods Hole Oceanographic Institution
Heidi Sosik	S-215	Woods Hole Oceanographic Institution

**Gross Photosynthesis**

Mary-Lynn Dickson	S-218	University of Rhode Island
Joe Orchardo	S-218	University of Rhode Island

**Mesozooplankton**

Jay Peterson	S-220	Louisiana Universities Marine Consortium
Juanita Urban-Rich	S-220	Louisiana Universities Marine Consortium

**Export Production by Th-234**

John Andrews	S-224	Woods Hole Oceanographic Institution
Glenn Crossin	S-224	Woods Hole Oceanographic Institution

**Trace metal biogeochemistry**

Christopher Measures	S-225	University of Hawaii
Paolo Rossini	?	Institute of Marine Geology, Italy

**Nitrogen biogeochemistry & new production**

Lois Breger	S-226?	Lamont-Doherty Earth Observatory
Bonnie Mace	S-226	Lamont-Doherty Earth Observatory

**Primary Production**

Mike Hiscock	S-255	Duke University
John Marra	?	Lamont-Doherty Earth Observatory
Ann-Maree White	S-255	University of Tennessee

**Silicon biogeochemistry**

David Nelson	S-235	Oregon State University
Julie Arrington	S-235	Oregon State University

**Bacterial processes**

Helen Quinby	S-244	Virginia Institute of Marine Sciences
Dawn Castle	S-244	University of Delaware

**Microzooplankton**

Hector Nolla	S-249?	University of Hawaii
Karen Selph	S-249	University of Hawaii

**Ocean Optics**

Rick Reynolds	S-261	Scripps Institution of Oceanography
John Weiland	S-261	Scripps Institution of Oceanography

## R/V YUZHMOREGEOLOGIYA

The R/V *Yuzhmorgeologiya* was chartered by the National Oceanic Atmospheric Administration, National Marine Fisheries Service to support activities of the U.S. Antarctic Marine Living Resources (AMLR) field research program. Shipboard surveys were conducted on three legs in the AMLR study area between early January and early April 1998. A large-area survey was conducted on Leg I and again on Leg II, while Leg III was dedicated to a bottom trawl survey. Two major water zones were observed during the surveys on Legs I and II: "Drake Passage water" dominated the area north of Livingston island, which included new AMLR stations; "Bransfield Strait water" and transitional water were identified on the South Shetland continental slope and shelf.

1997/98 was the first full season of seabird research at Cape Shirreff and thus comparisons with prior years are not possible. However, based on mean breeding success from Admiralty Bay, approximately 140 kilometers (km) northeast on King George Island, the chinstrap penguin population had average and the gentoo penguin

population above average breeding success. Pinniped studies at Cape Shirreff revealed that the total number of Antarctic Fur seal pups born at the Cape and San Telmo Islands during the 1997/98 breeding season was 7,748, which is a 14.1% decrease in pup production from the 1996/97 count of 9,015. At Palmer Station, 4,412 breeding pairs of Adelie penguins were observed at 54 sample colonies during the peak egg-laying period (24-29 November 1997), which was essentially unchanged from the number of breeding pairs (4,445) censused in November 1996. Adelie penguins exhibited a slight increased breeding success in the 1997/98 season, creching 1.58 chicks per pair, or 0.11 chicks more than were creched per pair in the 1996/97 season.

## **AMLR Scientific Personnel**

### ***Cruise Leader***

Roger P. Hewitt	Southwest Fisheries Science Center	Legs I, III
David A. Demer	Southwest Fisheries Science Center	Leg II

### ***Physical Oceanography***

Anthony F. Amos	University of Texas at Austing	Leg I
Charles Rowe	University of Texas at Austing	Legs I, II, III
Andrea Wickham-Rowe	University of Texas at Austing	Leg II

### ***Phytoplankton***

Osmund Holm-Hansen	Scripps Institution of Oceanography	Leg I
Maximo Frangopulos	Institute de Fomento Pesquero, Punta Arenas, Chile	Leg II
Christopher D. Hewes	Scripps Institution of Oceanography	Legs I, II
Jenny Maturana	Universidad Catolica de Valparaiso	Leg I
Milean Ruiz	University de Magallanes, Punta Arenas, Chile	Leg II

### ***Bioacoustic Survey***

Adam Jenkins	Wayward Sailor Maritime	Legs I, II
Jacqueline Popp	University of California, Santa Cruz	Legs, I, II, III

***Krill and Zooplankton Sampling***

Valerie Loeb	Moss Landing Marine Laboratories	Legs I, II
Wesley A. Armstrong	Southwest Fisheries Science Center	Legs I, II
Kimberly Dietrich		Leg II
Michael Force		Legs I, II
Rachel Johnson	California Academy of Sciences	Legs I, II
Elizabeth Linen	University of Washington	Legs I, II
Matthew M. Nelson	San Diego State University	Leg II
Charles F. Phleger	San Diego State University	Leg I
Volker Siegel	Sea Fisheries Research Institute	Leg I

***Bottom Trawl Survey***

Christopher D. Jones	Southwest Fisheries Science Center	Leg III
Kimberly Dietrich		Leg III
Peter Kappes	Biological Resource Division, USGS	Leg III
Karl-Hermann Kock	Sea Fisheries Research Institute	Leg III
Sunhild Wilhelms	Bundesamt fuer Seeschifffahrt und Hydrographie	Leg III

***Cape Shirreff Personnel***

William T. Cobb	Southwest Fisheries Science Center	28 Nov 97 - 27 Jan 98
Terence Carten		28 Nov 97 - 28 Feb 98
Daniel P. Costa	University of California, Santa Cruz	07 Feb 98 - 28 Feb 98

Michael E. Goebel	University of California, Santa Cruz	07 Feb 98 - 28 Feb 98
Rennie S. Holt	Southwest Fisheries Science Center	05 Jan 98 - 27 Jan 98; 07 Feb 98 - 28 Feb 98
Jeremy T. Sterling	University of California, Santa Cruz	28 Nov 97 - 28 Feb 98
Philip H. Thorson	SRS Technologies	21 Dec 97 - 27 Jan 98
Wayne Z. Trivelpiece	Southwest Fisheries Science Center	28 Nov 97 - 28 Feb 98

***Sea Island Personnel***

Rennie S. Holt	Southwest Fisheries Science Center	28 Jan 98 - 06 Feb 98
Wesley A. Armstrong	Southwest Fisheries Science Center	28 Jan 98 - 06 Feb 98
Adam Jenkins	Wayward Sailor Maritime	28 Jan 98 - 06 Feb 98
Jacqueline Popp	University of California, Santa Cruz	28 Jan 98 - 06 Feb 98

***Palmer Station Personnel***

William R. Fraser	Montana State University	15 Dec 97 - 06 Feb 98
Donna L. Patterson	Montana State University	15 Dec 97 - 04 Apr 98
Peter Duley	Montana State University	01 Oct 97 - 28 Feb 98
Matt Irinaga	Montana State University	01 Oct 97 - 28 Feb 98

**Electronics Technician**

Frank Gomes

Pacific Marine Center

Legs I, II

For more information on the U.S. Antarctic Marine Living Resources (AMLR) Program,  
or a copy of the AMLR 1997/98 Field Season Report, please contact:

*U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Marine Fisheries Service  
Southwest Fisheries Science Center  
P.O. Box 271  
La Jolla, California 92038*



## XVI. Visiting Expeditions

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*Section XVI of the Modifications of the United States Antarctic Activities Planned for 1997-98 provides information on expeditions visiting U.S. stations during the 1997-98 austral summer.*

### McMurdo Station

<u>Date of Visit</u>	<u>Duration of Visit</u>	<u>Number of Visitors</u>	<u>Group Name or # of Vessel or Aircraft</u>	<u>Purpose of Visit</u>
02 Feb 98	8 hours	121	Kapitan Khlebnikov	Tourist Visit
10 Feb 98	5 days	2	Belgian Skiers	Private Expedition
25 Feb 98	7 hours	99	Kapitan Khlebnikov	Tourist Visit
25 Feb 98	10 hours	48	Akademik Shokalsky	Tourist Visit

### Amundsen-Scott South Pole Station

<u>Date of Visit</u>	<u>Duration of Visit</u>	<u>Number of Visitors</u>	<u>Group Name or # of Vessel or Aircraft</u>	<u>Purpose of Visit</u>
07 Dec 97	5 hours	6	Adventure Network International	Tourist Visit

<u>Date of Visit</u>	<u>Duration of Visit</u>	<u>Number of Visitors</u>	<u>Group Name or # of Vessel or Aircraft</u>	<u>Purpose of Visit</u>
15 Dec 97	2 hours	2	Adventure Network International	Tourist Visit
17 Dec 97	2 hours	1	Adventure Network International	Tourist Visit
29 Dec 97	2 hours	5	Adventure Network International	Tourist Visit
01 Jan 98	3 days	3	Australian Skiers	Private Expedition
01 Jan 98	3 days	3	Icelandic Skiers	Private Expedition
04 Jan 98	3 days	2	Belgian Skiers	Private Expedition
16 Jan 98	2 hours	10	Adventure Network International	Tourist Visit

## **Palmer Station**

<u>Date of Visit</u>	<u>Duration of Visit</u>	<u>Number of Visitors</u>	<u>Group Name or # of Vessel or Aircraft</u>	<u>Purpose of Visit</u>
13 Nov 97	5 hours	126	M/V World Discoverer	Tourist Visit, USAP cargo offload

<u>Date of Visit</u>	<u>Duration of Visit</u>	<u>Number of Visitors</u>	<u>Group Name or # of Vessel or Aircraft</u>	<u>Purpose of Visit</u>
24 Nov 97	5 hours	75	M/V World Discoverer	Tourist Visit, USAPcargo offload
08 Dec 97	4 hours	47	RRS James Clark Ross	Interprogram Visit
12 Dec 97	8 hours	87	M/V Explorer	Tourist Visit
18 Dec 97	3 hours	4	M/V Almirante Irizar	Interprogram Visit
23 Jan 98	3.5 hours	48	M/V Multanovskiy	Tourist Visit
30 Dec 97	6.5 hours	107	M/V Explorer	Tourist Visit
05 Jan 98	3.5 hours	10	S/Y Croix Saint Paul 2	Tourist Visit
08 Jan.98	5 hours	129	M/V World Discoverer	Tourist Visit
08 Jan 98	3 hours	105	M/V Explorer	Tourist Visit
19 Jan 98	5 hours	132	M/V World Discoverer	Tourist Visit
16 Jan 98	1.5 hours	5	S/Y Najat	Tourist Visit
19 Jan 98	6 hours	9	S/Y Sarah W. Vorwerk	Tourist Visit
20 Jan 98	2.5 hours	9	R/V Akademik Boris Petrov	Science Deployment
17 Jan 98	2 days	10	S/Y Pen Duick III	Engine Trouble

<u>Date of Visit</u>	<u>Duration of Visit</u>	<u>Number of Visitors</u>	<u>Group Name or # of Vessel or Aircraft</u>	<u>Purpose of Visit</u>
21 Jan 98	4 hours	55	M/V Akademik Shuleykin	Tourist Visit
02 Feb 98	4 hours	29	R/V Puerto Deseado	Interprogram Visit
04 Feb 98	4.5 hours	133	M/V World Discoverer	Tourist Visit
10 Feb 98	4 hours	68	M/V Multanovskiy	Tourist Visit
12 Feb 98	3.5 hours	93	M/V Explorer	Tourist Visit
17 Feb 98	3.5 hours	10	S/Y Croix Saint Paul II	Tourist Visit
23 Feb 98	3.5 hours	118	M/V Hanseatic	Tourist Visit
04 March 98	2.5 hours	94	M/V Explorer	Tourist Visit
05 March 98	6 hours	10	S/Y Sarah H. Vorwerk	Tourist Visit

## **Appendix III**

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*Names and professional affiliation of personnel engaged in scientific activities.*

### **Scientific Personnel**

#### **McMurdo Station Area**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
<b>S-005</b>		
<u>University of Illinois</u>		
Inhua Chen	02 Oct 97	17 Dec 97
Christina C Cheng-Devries	30 Nov 97	29 Dec 97
Arthur L De Vries	11 Oct 97	18 Nov 97
Luke J Hunt	02 Oct 97	14 Jan 98
Michael Kuiper (Australia)	11 Oct 97	26 Nov 97
Diana J Laird	02 Oct 97	05 Dec 97
Craig J Marshall (New Zealand)	02 Oct 97	30 Oct 97
Leonid Moroz (Belarus)	03 Nov 97	16 Dec 97
Steven W Munsell	02 Oct 97	14 Jan 98

#### **S-006**

##### University of Southern California

Thomas Geelan	14 Nov 97	05 Oct 97
Heather R Long	25 Aug 97	14 Nov 97
Donal T Manahan (Ireland)	25 Aug 97	11 Oct 97
Adam G Marsh	21 Aug 97	22 Nov 97

Robert Maxson	16 Oct 97	08 Nov 97
Douglas A Pace	25 Aug 97	19 Feb 98
Mary A Sewell (New Zealand)	21 Aug 97	19 Feb 98

**S-008**

Madigan Army Medical Center

Samuel H Case	07 Jan 98	16 Jan 98
Nhan V Do	06 Oct 97	26 Oct 97
Nancy S Finney	07 Oct 96	28 Oct 96
Elizabeth Mino	06 Oct 97	31 Oct 97
"" "" ""	16 Jan 98	24 Jan 98
Harrell L Reed	06 Oct 97	31 Oct 98
Kathleen R Reedy	06 Oct 97	30 Oct 97
"" "" ""	07 Jan 98	31 Jan 98
Richard L Seip	06 Oct 97	26 Oct 97

**S-009**

University of Minnesota

Kyler J Abernathy	11 Oct 97	16 Dec 97
Michael Cameron	11 Oct 97	13 Dec 97
Thomas S Gelatt	11 Oct 97	29 Dec 97
Sharon R Melin	11 Oct 97	21 Dec 97
Richard A Reichle	26 Oct 97	02 Dec 97
Brent S Stewart	01 Dec 97	21 Dec 97
Pamela K Yochem	01 Dec 97	21 Dec 97

**S-012**

Creighton University School of Medicine

Constance T Faro	01 Oct 97	14 Nov 97
Sierra R Guynn	17 Dec 97	01 Oct 97
David H Petzel	01 Oct 97	05 Dec 97
Derek D Smith (Great Britain)	30 Oct 97	16 Dec 97
Richard Willis (New Zealand)	14 Oct 97	26 Oct 97

**S-017**

Texas A & M University

Shane O Collier	06 Oct 97	16 Dec 97
Randall W Davis	06 Oct 97	16 Dec 97
Lee A Fuiman	06 Oct 97	26 Nov 97
William P Hagey	06 Oct 97	26 Nov 97
Shane B Kanatous	06 Oct 97	16 Dec 97
Suzanne Kohin	06 Oct 97	16 Dec 97
Theresa M Williams	06 Oct 97	10 Dec 97
Lisa A Wilsbacher	06 Oct 97	16 Dec 97

**S-022**

Florida Institute of Technology

Charles D Amsler, Jr.	02 Oct 97	22 Nov 97
Richard B Aronson	26 Oct 97	02 Dec 97
Billy J Baker	16 Oct 97	05 Dec 97
Thomas Barlow	16 Oct 97	10 Dec 97
Bruce F Furrow	16 Oct 97	05 Dec 97
Elizabeth Kintzing	16 Oct 97	10 Dec 97
Thomas S Klinger	16 Oct 97	01 Dec 97
James B Mc Clintock	16 Oct 97	22 Nov 97
Christopher B Moeller	02 Oct 97	10 Dec 97

**S-031**

H T Harvey & Associates

David G Ainley	05 Dec 97	28 Jan 98
Grant Ballard (Virgin Islands)	05 Dec 97	28 Jan 98
Ian Gaffney	14 Dec 97	28 Jan 98
Sacha Heath	05 Dec 97	28 Jan 98
Christine Ribic	05 Dec 97	12 Jan 98
Susan Townsend	05 Dec 97	28 Jan 98
Sophie W Webb	05 Dec 97	28 Jan 98

**S-042B**

Desert Research Institute

Peter T Doran (Canada)	20 Oct 97	02 Dec 97
Wayne H Pollard (Canada)	20 Oct 97	23 Dec 97

**S-042FO**

US Geological Survey

Paul J Langevin (Canada)	27 Dec 97	03 Feb 98
Karen J Lewis	02 Jan 98	03 Feb 98
Konrad Steffen (Switzerland)	07 Jan 98	28 Jan 98

**S-042FR**

Colorado State University

Daniel J Bumbarger	14 Nov 97	21 Jan 98
Melody B Burkins	02 Jan 98	21 Jan 98
Diana W Freckman	02 Jan 98	14 Jan 98
Edward A Kuhn	14 Nov 97	21 Dec 97
Andrew N Parsons (Great Britain)	02 Jan 98	21 Jan 98
Amy M Treonis	14 Nov 97	24 Jan 98
Ross A Virginia	02 Jan 98	14 Jan 98

**S-042L**

University of Alabama

Paul Jones	14 Nov 97	17 Dec 97
Kathleen A Welch	03 Nov 97	14 Feb 98

**S-042M**

Instaar

Alexander Alger	22 Dec 97	24 Jan 98
Arne Bomblies (Germany)	22 Dec 97	24 Jan 98
Peter A Conovitz	20 Oct 97	06 Feb 98
Keith D Ligler	20 Oct 97	03 Feb 98
Lee H Macdonald	03 Nov 97	21 Dec 97



Diane M Mc Knight 11 Jan 98 21 Jan 98

**S-042P**

Montana State University, Bozeman

Amanda Grue 20 Oct 97 03 Jan 98  
Scott T Konley 20 Oct 97 14 Jan 98  
John C Priscu 08 Nov 97 26 Nov 97  
Emily C Roberts (Great Britain) 16 Oct 97 16 Feb 98  
Craig F Wolf 20 Oct 97 12 Jan 98

**S-042W**

Desert Research Institute

Camilla Correll 20 Oct 97 06 Feb 98  
Nicholas Lancaster 07 Jan 98 02 Feb 98  
Keith A Sauter 08 Nov 97 31 Jan 98  
Robert A Wharton 20 Oct 97 13 Nov 97

**S-049A**

Ohio State University

Sherry G Kooyman 11 Oct 97 02 Dec 97  
Sonia Sandroni 11 Oct 97 18 Nov 97

**S-049B**

Ohio State University

Matthew G Curren 06 Oct 97 22 Nov 97  
Sandra Passchier (Netherlands) 08 Oct 97 06 Dec 97  
Peter N Webb 21 Aug 97 25 Aug 97  
"" "" "" 02 Oct 97 08 Nov 97

**S-051**

University of Nebraska - Lincoln

Steve Bohaty 17 Oct 97 02 Dec 97  
David M Harwood 11 Oct 97 02 Dec 97

**S-052A**

US Geological Survey

William J Smith	03 Nov 97	14 Jan 98
James D Williams	13 Nov 97	16 Dec 97

**S-052B**

US Geological Survey

Michael L Prentice	22 Jan 98	02 Feb 98
Jean-Claude M Thomas	17 Jan 98	02 Feb 98

**S-052C**

US Geological Survey

Jerry L Mullins	16 Jan 98	02 Feb 98
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**S-054**

Boston University

Beth N Hartman	20 Oct 97	08 Jan 98
Kelly Kryc	21 Nov 97	14 Jan 98
David R Marchant	21 Nov 97	16 Jan 98
Eric J Moore	20 Oct 97	06 Feb 98

**S-055**

University of Utah

Richard D Jarrard	11 Oct 97	31 Oct 97
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**S-057**

Florida State University

Guiliana Villa (Italy)	11 Oct 97	14 Nov 97
Sherwood W Wise, Jr.	11 Oct 97	18 Nov 97

**S-058**

Case Western Reserve University

Louann Becker	30 Dec 97	31 Jan 98
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Gretchen K Benedix	30 Nov 97	24 Jan 98
Marta C Corbin	30 Nov 97	24 Jan 98
Ralph P Harvey	30 Nov 97	06 Jan 98
David W Mittlefehldt	30 Nov 97	24 Jan 98
John W Schutt	14 Nov 97	31 Jan 98
Timothy D Swindle	30 Nov 97	24 Jan 98
Mark A Wieczorek	30 Nov 97	24 Jan 98
Karl R Wirth	30 Nov 97	26 Jan 98

**S-064**

University of Nebraska - Lincoln

Richard M Kettler	26 Oct 97	18 Nov 97
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**S-070**

Ohio State University

Lawrence A Krissek	06 Oct 97	14 Nov 97
Ross D Powell (New Zealand)	05 Oct 97	18 Nov 97
Laura De Santis (Italy)	11 Oct 97	18 Nov 97
Franco Talarico (Italy)	11 Oct 97	14 Nov 97

**S-075**

University of California, Davis

Andrew P Roberts (New Zealand)	08 Oct 97	08 Nov 97
Kenneth L Verosub	08 Nov 97	18 Nov 97
Gary S Wilson (New Zealand)	08 Oct 97	18 Nov 97

**S-076**

University of Kansas

David Buchanan	02 Jan 98	16 Jan 98
Gar Rothwell	02 Jan 98	16 Jan 98
Edith L Taylor	02 Jan 98	16 Jan 98
Thomas N Taylor	02 Jan 98	16 Jan 98

**S-078**

US Geological Survey

Wade W Brady	20 Oct 97	16 Dec 97
Harold L Huhs	20 Oct 97	13 Dec 97

**S-079**

Ohio State University

Timothy S Paulsen	05 Oct 97	14 Nov 97
Ghodratollah Rafat (Germany)	02 Oct 97	16 Oct 97
Terry Wilson	02 Oct 97	13 Dec 97
"" "" ""	27 Dec 97	03 Jan 98

**S-080**

Louisiana State University

Elisabeth Levac (Canada)	08 Oct 97	14 Nov 97
John H Wrenn	08 Oct 97	18 Nov 97

**S-081**

New Mexico Institute of Mining & Technology

Raymond R Dibble (New Zealand)	13 Nov 97	05 Dec 97
Alan J Eschenbacher	13 Nov 97	29 Dec 97
Christopher J Harpel	13 Nov 97	29 Dec 97
Philip R Kyle	13 Nov 97	23 Dec 97
Kurt S Panter	13 Nov 97	23 Dec 97
Lois J Wardell	13 Nov 97	29 Dec 97

**S-082**

California Institute of Technolgy

Margaret T Glasscoe	01 Dec 97	06 Jan 98
Shaun Norman (Great Britain)	08 Nov 97	23 Dec 97
Mark A Smith	05 Dec 97	16 Jan 98
Ray Swindlehurst	05 Dec 97	03 Jan 98

**S-083**

Rice University

Ian Howat 16 Jan 98 20 Feb 98

**S-084**

Ohio State University

Erik R Venteris 13 Nov 97 13 Dec 97

Ian M Whillans (Canada) 13 Nov 97 16 Dec 97

**S-094**

University of Wisconsin, Milwaukee

Loren E Babcock 14 Nov 97 13 Dec 97

Susan A Giller 13 Nov 97 22 Dec 97

Stephen T Hasiotis 14 Nov 97 13 Dec 97

John L Isbell 21 Nov 97 13 Dec 97

Molly F Miller 21 Nov 97 13 Dec 97

John Roberts (New Zealand) 13 Nov 97 16 Dec 97

**S-098**

University of Texas - Austin

Ryan Biggs 03 Nov 97 03 Feb 98

Donald D Blankenship 05 Dec 97 21 Dec 97

John S Gerboc 08 Nov 97 03 Feb 98

Kenneth H Griffiths 03 Nov 97 04 Feb 98

Lena Krutikov 05 Dec 97 03 Feb 98

Victoria E Langenheim 21 Nov 97 02 Feb 98

Bruce P Luyendyk 05 Dec 97 16 Dec 97

Sammantha Magsino 03 Nov 97 03 Feb 98

Mark Maybee 14 Nov 97 21 Dec 97

Donald W Mc Nair 03 Nov 97 22 Nov 97

Matthew E Peters 08 Nov 97 21 Dec 97

Geoffrey A Phelps 21 Nov 97 31 Jan 98

Eric K Robison 22 Dec 97 03 Feb 98

John M Tepper	14 Nov 97	29 Jan 98
Jeffery L Williams	03 Nov 97	04 Feb 98

**S-099**

Ohio State University

Detlef J Damaske (Germany)	09 Dec 97	09 Feb 98
Christie M Demosthenous	09 Dec 97	09 Feb 98
Carol A Finn	14 Dec 97	24 Jan 98
Vera Marcinkowski (Germany)	14 Dec 97	09 Feb 98
Heinz-Dieter Moeller (Germany)	14 Dec 97	09 Feb 98

**S-105**

University of Michigan

Alexandr Frank-Kamenetsky (Russia)	14 Nov 97	14 Nov 97
Vladimir O. Papitashvili (Russia)	17 Nov 97	31 Dec 97
Lloyd Symons	21 Nov 97	02 Dec 97

**S-107**

Instituto De Fisica Dell'Atmosfera

Guido Di Donfrancesco (Italy)	21 Aug 97	01 Oct 97
"" "" ""	04 Feb 98	10 Feb 98

**S-111**

University of Maryland

Hans A Breden	07 Jan 98	19 Jan 98
Allan T Weatherwax	07 Jan 98	19 Jan 98

**S-113**

University of Colorado - Boulder

Mercedes M Huaman (Peru)	01 Dec 97	05 Dec 97
"" "" ""	02 Jan 98	21 Jan 98

**S-116**

University of California, Berkeley

Steven E Boggs	14 Nov 97	19 Jan 98
Wayne M Coburn	08 Nov 97	28 Jan 98
Marsha L Colby	01 Dec 97	14 Jan 98
Fredric Duttweiler	14 Nov 97	09 Jan 98
Stephen Mcbride	14 Nov 97	16 Jan 98
Michael R Pelling	14 Nov 97	16 Jan 98
John H Primbsch	01 Dec 97	14 Jan 98
Said A Slassi-Sennou (Macau)	01 Dec 97	15 Jan 98
Peter Von Ballmoos (Switzerland)	22 Dec 97	14 Jan 98

**S-126**

NASA Goddard Space Flight Center

Jonathan A Rall	22 Jan 98	02 Feb 98
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**S-131**

University of Wyoming

Russell A Ashenden	21 Aug 97	01 Oct 97
Willard J Bellon	21 Aug 97	08 Nov 97
Terry L Deshler	10 Feb 98	19 Feb 98
Jason A Gonzales	21 Aug 97	01 Oct 97
Bruno Nardi	21 Aug 97	08 Nov 97

**S-132B**

Harvard University

Charles M Bradford	05 Dec 97	17 Dec 97
Mark R Swain	05 Dec 97	17 Dec 97
Gregory A Wright	17 Dec 97	21 Jan 98
Xiaolei Zhang (China) (winter over)	13 Nov 97	

**S-132E**

University of Chicago

Troy J Ames	20 Jan 98	28 Jan 98
Robert F Loewenstein	14 Dec 97	08 Jan 98
Fred Mrozek	21 Jan 98	15 Feb 98

**S-137**

State University of New York

Robert L De Zafra	21 Aug 97	11 Oct 97
Giovanni Muscari (Italy)	21 Aug 97	11 Oct 97
Vivek C Nagar	21 Aug 97	11 Oct 97

**S-145**

National Scientific Balloon Facility

John F Barber	30 Nov 97	16 Jan 98
Frank A Candelaria	09 Dec 97	14 Jan 98
Victor N Davison	09 Dec 97	08 Jan 98
Otto J Masters	09 Dec 97	14 Jan 98
Thomas Paul	09 Dec 97	16 Jan 98
Steven E Peterzen	13 Nov 97	28 Jan 98
Sharon A Ruck	09 Dec 97	14 Jan 98
David W Sullivan (Australia)	17 Nov 97	08 Jan 98

**S-148**

University of Denver

Renate Van Allen-Heuberger (Switzerland)	20 Jan 98	06 Feb 98
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**S-149**

NASA/Goddard Space Flight Center

Craig Stauffer	22 Dec 97	29 Dec 97
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**S-150**

Polar Ice Coring Office

Karl C Kuivinen 02 Jan 98 28 Jan 98

**S-150A**

University of Nebraska

Bruce Koci 14 Dec 97 28 Jan 98

**S-150B**

University of Nebraska - Lincoln

Louise Albershardt 28 Oct 97 29 Jan 98

Deanna C Barbaria 28 Oct 97 24 Jan 98

Kurt K Bauer 28 Oct 97 29 Jan 98

Beth Bergeron 30 Oct 97 29 Jan 98

Denise Braun 28 Oct 97 29 Jan 98

Jerome W Brown 28 Oct 97 06 Feb 98

Philip J Cilwick 28 Oct 97 24 Jan 98

Thomas A Cooper 03 Nov 97 21 Jan 98

Ian F Doleman 28 Oct 97 24 Jan 98

Rhonda M Ecker 28 Oct 97 06 Feb 98

John D Giles 28 Oct 97 21 Dec 97

"" "" "" 02 Jan 98 09 Feb 98

Kenneth W Jessen 30 Oct 97 08 Jan 98

Willem L Kersten 03 Nov 97 12 Jan 98

Stuart N Luttich 30 Oct 97 24 Jan 98

Earl R Ramsey 08 Nov 97 08 Jan 98

David M Thompson 03 Nov 97 24 Jan 98

**S-152**

Desert Research Institute

Gregg W Lamorey 30 Oct 97 24 Jan 98

John F Rhoades 30 Oct 97 24 Jan 98

Kendrick C Taylor 30 Oct 97 21 Dec 97

**S-155**

Cold Regions Research and Engineering Laboratory

Mary R Albert	08 Nov 97	01 Dec 97
Nancy Cloud	08 Nov 97	01 Dec 97
Sandy Shutey	08 Nov 97	02 Dec 97
Joseph T Tsai	08 Nov 97	02 Dec 97

**S-156**

University of Maine

Amy E Benoit	26 Oct 97	14 Jan 98
George H Denton	02 Jan 98	28 Jan 98
Brenda L Hall	03 Nov 97	05 Dec 97
Meredith A Kelly	26 Oct 97	06 Feb 98
Eva Lanz (Switzerland)	02 Jan 98	21 Jan 98
David E Sugden (Great Britain)	02 Jan 98	24 Jan 98

**S-157**

California Institute of Technology

Anne C Blanchard	13 Nov 97	26 Jan 98
Robin J Bolsey	13 Nov 97	26 Jan 98
Adam K Bucki	13 Nov 97	02 Feb 98
Sky Colley	13 Nov 97	25 Jan 98
Hermann Engelhardt (Germany)	13 Nov 97	03 Feb 98
Benjamin T Farrow	13 Nov 97	02 Feb 98
Erik H Mueller	13 Nov 97	25 Jan 98
Doug Reusch	13 Nov 97	02 Feb 98
Hans F Schwaiger	13 Nov 97	25 Jan 98

**S-158**

University of Arizona

Brent A Matson	08 Nov 97	02 Dec 97
Joseph R McConnell	08 Nov 97	02 Dec 97

**S-159**

NASA

Christopher A Shuman 03 Nov 97 21 Dec 97

**S-160**

US Geological Survey

Elizabeth K Rogers 01 Dec 97 14 Jan 98

**S-161**

University of Miami

Valeri Chachkine (Russia) 14 Nov 97 06 Feb 98

Viktor Choumilov (Russia) 14 Nov 97 31 Jan 98

Andrei Dmitriev (Russia) 14 Nov 97 06 Feb 98

Nikolay Kondratyev (Russia) 14 Nov 97 06 Feb 98

Alexandre Krassilev (Russia) 14 Nov 97 06 Feb 98

Eric M Lefebvre (France) 27 Dec 97 06 Feb 98

Jean R Petit (France) 14 Dec 97 06 Feb 98

Anatoli Popkov (Russia) 14 Nov 97 06 Feb 98

Claude Rado 14 Nov 97 03 Jan 98

Mikhail Sotnikov (Russia) 14 Nov 97 31 Jan 98

Nicolai J Vassiliev (Russia) 14 Nov 97 06 Feb 98

Christian Vincent 14 Nov 97 03 Jan 98

Reamir Vostretsov (Russia) 14 Nov 97 06 Feb 98

**S-162**

University of Rhode Island

Jeffrey P Severinghaus 07 Jan 98 26 Jan 98

**S-164**

University of Alaska

Daniel Elsberg 04 Dec 97 21 Jan 98

William D Harrison (Canada) 04 Dec 97 19 Jan 98

Eric W Husmann 04 Dec 97 03 Feb 98

John L Morack 04 Dec 97 14 Jan 98

**S-165**

Cold Regions Research and Engineering Laboratory

Anthony Gow (New Zealand) 14 Dec 97 25 Jan 98

**S-166**

Ohio State University

Beata M Csatho (Hungary) 01 Dec 97 24 Jan 98

**S-171**

University of Washington

Hans-Peter Marshall 09 Dec 97 24 Jan 98

Thomas A Neumann 09 Dec 97 24 Jan 98

Edwin D Waddington (Canada) 09 Dec 97 16 Jan 98

**S-173**

NASA

Xin Chen (China) 08 Nov 97 01 Dec 97

**S-176**

University of Wisconsin - Madison

Howard B Conway (New Zealand) 08 Nov 97 29 Jan 98

Maurice Conway (New Zealand) 08 Nov 97 26 Jan 98

Anthony M Gades 08 Nov 97 29 Jan 98

Neal E Lord 08 Nov 97 29 Jan 98

Benjamin Smith 08 Nov 97 26 Jan 98

**S-178**

Ohio State University

Vandy B Spikes 03 Nov 97 13 Dec 97

Michael J Willis (Seychelles) 03 Nov 97 16 Dec 97

**S-180**

Pennsylvania State University

Sridhar Anandakrishnan	08 Nov 97	01 Dec 97
James L Klucar	30 Oct 97	01 Dec 97

**S-185**

Ohio State University

Jihong Cole-Dai (Canada)	05 Dec 97	08 Jan 98
John Paskievitch	05 Dec 97	06 Jan 98

**S-190**

University of Kansas

David A Braaten	13 Nov 97	10 Dec 97
Surujhded Seunarine (Trinidad)	13 Nov 97	13 Dec 97

**S-202**

University of Wisconsin

Matthew A Lazzara	17 Nov 97	05 Dec 97
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**S-257A**

NOAA

Bradley C Halter	26 Oct 97	10 Dec 97
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**S-283**

University of Wisconsin - Madison

John Cassano	02 Jan 98	02 Feb 98
Robert E Holmes	02 Jan 98	02 Feb 98

**S-295**

UNAVCO/UCAR

Bjorn L Johns	17 Oct 97	16 Dec 97
Oivind Ruud (Norway)	01 Dec 97	09 Feb 98

**S-302**

University of North Carolina - Chapel Hill

Kathleen E Conlan (Canada)	01 Oct 97	16 Dec 97
Nisse A Goldberg	01 Oct 97	21 Dec 97
Laura M Hill	08 Nov 97	29 Dec 97
Stacy L Kim	01 Oct 97	18 Nov 97
Hunter S Lenihan	01 Oct 97	18 Nov 97
Christian M McDonald	01 Oct 97	29 Dec 97
Michelle Paddack	20 Oct 97	29 Dec 97

**S-305**

Ohio State University

Alexandra C Brown	21 Nov 97	12 Jan 98
Yu-Ping Chin	14 Dec 97	23 Dec 97
Penney Miller	05 Jan 98	31 Jan 98
Maria E Uhle	21 Nov 97	08 Jan 98

**South Pole Station Area**

**Dates in Antarctica**

Arrived

Departed

**S-052**

U.S. Geological Survey

Robert P Glover	03 Nov 97	16 Jan 98
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**S-068**

University of Utah/EGI

Darrell B Hall	14 Nov 97	31 Dec 97
Louise Pellerin	14 Nov 97	08 Jan 98
John A Stodt	14 Nov 97	08 Jan 98
Philip E Wannamaker	14 Nov 97	08 Jan 98

**S-090**

Incorporated Research Institutions for Seismology

David M Krukar	28 Oct 97	17 Dec 97
Kyle E Persefield	28 Oct 97	10 Dec 97
William D Smythe	13 Nov 97	26 Nov 97

**S-104**

University of California - Berkeley

Evans W Paschal	14 Nov 97	26 Nov 97
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**S-108**

Stanford University

Christopher P Barrington-Leigh (Canada)	17 Nov 97	17 Dec 97
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**S-109D**

University of Delaware

James E Dickinson (Great Britain)	17 Nov 97	29 Dec 97
James A Hinton (Great Britain)	14 Dec 97	16 Jan 98
Timothy C Miller	14 Dec 97	16 Feb 98
Mansukh Patel (Great Britain)	13 Nov 97	17 Dec 97
Glenn M Spiczak	05 Jan 98	12 Feb 98

**S-110**

University of Washington

Kerry A Deutsch	25 Jan 98	06 Feb 98
Gonzalo Hernandez (Costa Rica)	22 Jan 98	06 Feb 98
Roger W Smith (Great Britain)	22 Jan 98	06 Feb 98

**S-111**

University of Maryland

Larry F Lutz	07 Jan 98	19 Jan 98
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**S-117**

National Institute of Polar Research

Makoto Taguchi (Japan) 13 Nov 97 18 Nov 97

**S-120**

University of Delaware

Leonard M Shulman 13 Jan 98 24 Jan 98

**S-123**

Kansas University

Ilia V Kravtchenko (Great Britain) 05 Jan 98 21 Jan 98

**S-127**

University of Illinois - Urbana

Paul J. Charpentier 19 Dec 96 18 Nov 97

Joseph B. Geddes 13 Nov 97 06 Dec 97

William M Pfenninger 16 Feb 98 16 Feb 98

"" "" "" 01 Feb 98 02 Feb 98

Robert States 13 Nov 97 06 Dec 97

**S-128**

Dartmouth College

Kristin L. Mcadams 07 Jan 98 19 Jan 98

**S-129**

Embry Riddle Aeronautical University

Johnathan J. Pesce 22 Dec 97 06 Jan 98

**S-130**

University of Wisconsin

Eduardo C. Andres (Argentina) (winter over) 13 Nov 97

Steven W. Barwick 05 Jan 98 15 Feb 98

Ryan Bay 22 Dec 97 16 Jan 98



Alexander Biron (Germany)	13 Nov 97	17 Dec 97
Matthew Carlson	01 Dec 97	22 Dec 97
Tyce R. Deyoung	22 Dec 97	21 Jan 98
Patrik H. Ekstrom (Sweden)	13 Nov 97	09 Jan 98
Anna K. Gronlund (Sweden)	30 Oct 97	06 Feb 98
Thomas A. Gustafsson (Sweden)	30 Oct 97	06 Feb 98
Rellen Hardtke	22 Jan 98	16 Feb 98
Gary C. Hill (Australia) (winter over)#	23 Oct 96	22 Nov 97
Per O Hulth (Sweden)	16 Jan 98	06 Feb 98
John E. Jacobsen	07 Jan 98	13 Feb 98
Albrecht Karle (Germany)	14 Dec 97	29 Jan 98
Holger Leich (Germany)	17 Jan 98	16 Feb 98
Pavel J. Marciniowski	13 Jan 98	13 Feb 98
Predrag Miocinovic (Croatia)	11 Jan 98	06 Feb 98
Patrick Mock	13 Nov 97	05 Dec 97
Robert M. Morse	11 Nov 97	01 Dec 97
Peter Niessen (Germany)	20 Jan 98	16 Feb 98
Carlos Perez De Los Heros (Spain)	14 Dec 97	21 Jan 98
Carol Petersen	14 Nov 97	12 Feb 98
Rodin A Porrata	13 Nov 97	17 Dec 97
Steffen Richter (Germany) (winter over)	01 Dec 97	
Torsten Schmidt (Germany) (winter over)	17 Dec 97	
Robert K Schwarz (Germany)	09 Jan 97	22 Nov 97
"" "" "" (winter over)	06 Feb 98	
Michael Solarz	21 Nov 97	09 Jan 98
Ole Streicher (Germany)	13 Jan 98	16 Feb 98
Franco Velatini (Italy)	13 Nov 97	01 Dec 97
Christopher H Wiebusch (Germany)	13 Nov 97	23 Dec 97
Ralf-Peter Wischnewski (Germany)	22 Dec 97	16 Feb 98
Kurt W Woschnagg (Sweden)	20 Jan 98	16 Feb 98

**S-132A**

University of Chicago

Randall H Landsberg	14 Dec 97	23 Dec 97
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David R Pernic (winter over)	01 Dec 97	
Robert J Pernic	26 Oct 97	22 Nov 97
"" "" ""	07 Jan 98	16 Feb 98
Joseph E Rottman	13 Nov 97	10 Dec 97
Robert Spotz	07 Jan 98	12 Feb 98
Janis Vancleve	14 Dec 97	22 Dec 97
Caesar J Wirth (Switzerland)	22 Jan 98	12 Feb 98

**S-132B**

Harvard University

Thomas M Bania	07 Jan 98	02 Feb 98
Alberto Bolatto (Uruguay)	21 Nov 97	17 Dec 97
Richard A Chamberlin, Jr.	20 Jan 98	16 Feb 98
Peter Cheimets	13 Nov 97	26 Nov 97
Maohai Huang (China)	02 Jan 98	02 Feb 98
James M Jackson	21 Nov 97	10 Dec 97
Jacob Kooi	28 Jan 98	16 Feb 98
Roopesh Ojha (India)	22 Dec 97	16 Feb 98
Matthias A Rumitz (Germany) (winter over)#	28 Oct 96	01 Dec 97
Lars O Sieberz (Germany)	22 Dec 97	06 Jan 98
Gordon J Stacey	05 Jan 98	14 Jan 98
Antony A Stark	13 Nov 97	10 Dec 97
Gregory A Wright	16 Jan 97	08 Feb 97
Xiaolei Zhang (China)	18 Dec 96	10 Feb 97

**S-132C**

University of Chicago

Michael Ashley (Australia)	17 Jan 98	12 Feb 98
David Barnaby (winter over)#	15 Nov 96	02 Dec 97
Brett A Mclindin (Australia)	16 Jan 98	24 Jan 98
Andre Phillips	05 Jan 98	16 Feb 98
Antony Schinckel (Australia)	13 Nov 97	21 Dec 97
John W Storey (Australia)	13 Nov 97	05 Dec 97
"" "" ""	07 Jan 98	21 Jan 98

**S-132E**

University of Chicago

Darren L. Depoy	22 Dec 97	08 Jan 98
Albert M. Fowler	21 Nov 97	03 Jan 98
"" "" ""	22 Jan 98	06 Feb 98
Doyal A. Harper	02 Jan 98	10 Feb 98
Robert F. Loewenstein	23 Jan 97	13 Feb 97
Rodney Marks (Australia) (winter over)	17 Nov 97	
Paul Martini	22 Dec 97	08 Jan 98
Jerry D. Mayfield (winter over)#	18 Nov 96	22 Nov 97
Fred Mrozek	13 Nov 97	21 Dec 97
Nigel A. Sharp (Great Britain)	21 Nov 97	29 Dec 97
Ralph S. Sutherland (Australia)	13 Jan 98	24 Jan 98

**S-132F**

Carnegie-Mellon University

Christopher M Cantalupo	17 Nov 97	06 Jan 98
Gregory S Griffin	14 Dec 97	16 Feb 98
Edgar L Griffith	13 Nov 97	22 Nov 97
Michael F Masterman	17 Nov 97	16 Jan 98
Kurt W Miller	30 Dec 97	08 Jan 98
Dale Morgan	13 Nov 97	16 Feb 98
Matthew G Newcomb (winter over)	13 Nov 97	
Jeffrey B Peterson	14 Dec 97	15 Feb 98
Mark T Thoma	14 Nov 97	15 Feb 98
Laszlo Varga	13 Nov 97	22 Nov 97

**S-148**

University of Denver

John R Olson	20 Jan 98	06 Feb 98
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**S-150A**

University of Nebraska

George Cameron	13 Nov 97	25 Jan 98
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Walter H Hancock	30 Nov 97	30 Jan 98
Obadiah R Huetter	13 Nov 97	06 Feb 98
Ulyana Korotkova (Russia)	13 Nov 97	06 Feb 98
Sven Olov M Lidstrom (Sweden)	13 Nov 97	06 Feb 98
John P Mc Mullan	06 Nov 96	06 Feb 98
Dale A Pomraning	13 Nov 97	06 Feb 98
David C Sanderson	28 Oct 97	06 Feb 98
Michael D Walsh	13 Nov 97	31 Jan 98

**S-150B**

University of Nebraska - Lincoln

Jerome W Brown	10 Oct 96	22 Jan 97
Earl R Ramsey	22 Nov 96	30 Jan 97

**S-178**

Ohio State University

Gordon S Hamilton (Great Britain)	03 Nov 97	05 Dec 97
Stephen F Price	03 Nov 97	05 Dec 97

**S-180**

Pennsylvania State University

Mitchell S Lebold	30 Oct 97	16 Dec 97
"" "" ""	20 Jan 98	31 Jan 98
Donald E Voigt	30 Oct 97	16 Dec 97

**S-208**

University of Alaska - Fairbanks

Robert G Greenler	14 Dec 97	17 Feb 98
Gunther P Konnen (Netherlands)	13 Nov 97	08 Jan 98
Walter R Tape	13 Nov 97	15 Feb 98

**S-257A**

National Oceanic and Atmospheric Administration

Mark J Boland (winter over)#	23 Oct 96	14 Nov 97
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Geoffrey S Dutton	20 Jan 98	02 Feb 98
Nathan L Hill (winter over)	26 Oct 97	
David J Hofmann	11 Jan 98	19 Jan 98
Glen S Mc Conville (winter over)#	23 Oct 96	13 Nov 97
Joel T Michalski	30 Jan 98	10 Feb 98
Eric S Sandberg (winter over)	01 Dec 97	
Thomas H Swanson	20 Jan 98	02 Feb 98

**S-314**

Magee Scientific Company

Anthony D Hansen	04 Feb 98	13 Feb 98
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**Palmer Station Area**

**Dates in Antarctica**

Arrived

Departed

**S-002A**

SUNY, College of Environmental Science & Forestry

Brendon Hofsetz	29 Sep 97	20 Nov 97
Kenneth Mopper	29 Sep 97	20 Nov 97

**S-002B**

SUNY, College of Environmental Science & Forestry

Joseph Jankowski	29 Sep 97	20 Nov 97
David Kieber	29 Sep 97	20 Nov 97
Gary Miller	29 Sep 97	20 Nov 97

**S-003**

Arizona State University

Thomas A. Day	05 Jan 98	19 Mar 98
Chris T. Ruhland	09 Nov 97	10 Mar 97
Erin C. Vining	09 Nov 97	09 Jan 98
Fusheng Xiong (China)	09 Nov 97	10 Mar 97

**S-007A**

University of San Francisco

Deneb Karentz	16 Sep 97	17 Feb 98
Mario Pindea	16 Sep 97	17 Feb 98

**S-007B**

State University of New York

Isidro Bosch	16 Sep 97	12 Dec 97
Ross Hein	16 Sep 97	20 Nov 97
David Krakowski	16 Sep 97	12 Dec 97

**S-010**

Smithsonian Environmental Research Center

Richard Davis	29 Sep 97	12 Dec 97
Jennifer Fritz	29 Sep 97	12 Dec 97
Patrick Neale	29 Sep 97	20 Nov 97

**S-013**

Montana State University

William Fraser	20 Dec 96	21 Apr 97
"" "" "	05 Jan 98	07 Apr 98
Donna Patterson	20 Dec 96	21 Apr 97
"" "" ""	10 Dec 97	07 Apr 98

**S-030**

University of Maine

Jonas Collen	31 Mar 97	07 May 97
Ian R. Davison	27 Feb 97	06 Apr 97
Kenneth H. Dunton	27 Feb 97	06 Apr 97
John N. Heine	27 Feb 97	06 Apr 97
Rebecca E. Korb	31 Mar 97	07 May 97

**S-035**

Montana State University

Peter Duley	29 Sep 97	17 Feb 98
Matthew Irinaga	29 Sep 97	17 Feb 98

**S-040**

Montana State University

Matthew Becker	29 Sep 97	19 Mar 98
Tim Bennett	29 Sep 97	19 Mar 98
Katarzyna Salwicka (Poland)	17 Nov 97	19 Mar 98
Laina Shill	29 Sep 97	19 Mar 98

**R/V NATHANIEL B. PALMER**

**Dates in Antarctica**

Arrived

Departed

**S-048**

Ohio State University

Joseph Eastman	14 Dec 97	12 Jan 98
Christopher F Jensen	14 Dec 97	14 Jan 98
Michael J Lannoo	14 Dec 97	12 Jan 98

**S-083**

Rice University

John B Anderson	16 Jan 98	20 Feb 98
Michelle Fassell	16 Jan 98	21 Feb 98
Kimberly D Giesting	16 Jan 98	21 Feb 98
Ashley Lowe	16 Jan 98	21 Feb 98
Antonio Rodriguez	16 Jan 98	20 Feb 98
Stephanie S Shipp	16 Jan 98	21 Feb 98
Julia K Smith	16 Jan 98	21 Feb 98

**S-203**

Lamont Doherty

Arnold Gordon	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Benjamin Gordon	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Sara Green	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Bruce Huber	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Shubin Ma (China)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Guy Mathieu	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Sally Mathieu	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Phillip Mele	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Manfred Mensch (Germany)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Robin Muench	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Alejandro Orsi (Argentina)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Synte Peacock	29 Jul 97	21 Aug 97
"" ""	25 Aug 97	06 Sep 97
Martin Visbeck	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97

**S-209**

Old Dominion University

Joe Donnelly	09 Nov 97	17 Dec 97
Edward R. Webb II	09 Nov 97	17 Dec 97



**S-210**

North Carolina State University

Suzanne H O'Hara 09 Nov 97 17 Dec 97

**S-211**

Columbia University

Robert Anderson 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

George Bouchard 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

Martin Fleisher 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

Philip Froelich 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

Claudia Giulivi 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

Peter Kalk 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

Suzanne O'Hara 13 Jan 98 16 Mar 98

"" "" 16 Mar 98 18 Mar 98

Roseanne Schwartz 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

**S-212**

Oregon State University

Dennis Root 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

**S-214**

Columbia University

David Chipman	09 Nov 97	17 Dec 97
John Goddard	09 Nov 97	17 Dec 97
Burke Hales	09 Nov 97	17 Dec 97
Erich Scholz	09 Nov 97	17 Dec 97
Stewart Sutherland	09 Nov 97	21 Dec 97
Colm Sweeney	09 Nov 97	14 Jan 98

**S-216**

University of Minnesota

Wendy C Littman	14 Dec 97	14 Jan 98
Allison H Ridder	14 Dec 97	12 Jan 98

**S-216A**

William Marsh Rice University

Thomas Henderson	17 Dec 97	14 Jan 98
Randal E Holmbeck	17 Dec 97	12 Jan 98
Kristin A Ludwig	14 Dec 97	12 Jan 98
Michael J Lutz	14 Dec 97	12 Jan 98
David A Mucciarone	14 Dec 97	12 Jan 98
Michael L Peeters	17 Dec 97	14 Jan 98
Harold D Rowe	14 Dec 97	12 Jan 98
Michael L Van Woert	14 Dec 97	14 Jan 98
William F Van Woert	14 Dec 97	14 Jan 98
Jennifer C Villinski	14 Dec 97	14 Jan 98

**S-216B**

Monterey Bay

James P Barry	14 Dec 97	14 Jan 98
Carolyn K Bretz	14 Dec 97	14 Jan 98
Lee Cooper	14 Dec 97	12 Jan 98
Jacqueline M Grebmeier	14 Dec 97	12 Jan 98

Christopher F Lovera	17 Dec 97	12 Jan 98
Gay G Sheffield	17 Dec 97	12 Jan 98
Patrick J Whaling	14 Dec 97	12 Jan 98

**S-216C**

University of Wisconsin Oshkosh

David R Jones	14 Dec 97	12 Jan 98
Robert T Masserini	14 Dec 97	16 Jan 98
Dale H Robinson	14 Dec 97	14 Jan 98
Anthony W Schnell	17 Dec 97	14 Jan 98
Julie A Schnell	17 Dec 97	14 Jan 98
Frederic L Spangler	14 Dec 97	12 Jan 98

**S-217**

Woods Hole Oceanographic Institution

Calvert Eck	16 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Zev Frankel	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Joanne Goudreau	16 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
William Martin	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Frederick Sayles	16 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98

**S-223**

Bermuda Biological Station for Research

Craig Carlson	09 Nov 97	17 Dec 97
Rachel Parsons	09 Nov 97	17 Dec 97

**S-227**

Oregon State University

Kathryn Brooksforce	19 Feb 98	16 Mar 98
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"" "" ""	16 Mar 98	18 Mar 98
Thomas Gann	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Charlotte Meredith	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
John Moser	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98

**S-228**

Woods Hole Oceanographic Institution

Margaret Bowles	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Lawrence Costello	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Roger Francois (Bermuda)	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Susumu Honjo	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Richard Krishfield	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98

**S-233**

University of Tennessee

Michael Hiscock	09 Nov 97	17 Dec 97
Lisa Maroney	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Julie Seward	09 Nov 97	17 Dec 97
Walker O. Smith	09 Nov 97	17 Dec 97

**S-236**

University of Massachusetts, Dartmouth

Rachel S. Doughty	09 Nov 97	17 Dec 97
Sara Stillman	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98

**S-238**

The University of Georgia

Deborah Ann Bronk 09 Nov 97 17 Dec 97

**S-239**

University of Southern California

William Cochlan (Canada) 09 Nov 97 17 Dec 97

**S-244**

Virginia Institute of Marine Sciences

Matthew Church 09 Nov 97 17 Dec 97

Flynn Cunningham 09 Nov 97 17 Dec 97

**S-245**

University of Delaware

Richard Long 09 Nov 97 17 Dec 97

**S-246**

University of Washington

Michael Peterson 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

**S-247**

State University of New York, Stony Brook

Cynthia Lee 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

Daniel Montlucon 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

**S-248**

Skidaway Institute of Oceanography

Linda King 19 Feb 98 16 Mar 98

"" "" "" 16 Mar 98 18 Mar 98

**S-251**

Woods Hole Oceanographic Institution

Mark Dennett	09 Nov 97	17 Dec 97
Geraldine Miceli	09 Nov 97	17 Dec 97

**S-255**

University of Tennessee

Sylvie Becquevort (Belgium)	09 Nov 97	17 Dec 97
Sylvie Mathot (Belgium)	09 Nov 97	17 Dec 97

**S-256**

Oregon State University

Louis Irwin Gordon	09 Nov 97	12 Jan 98
Joe C. Jennings Jr.	09 Nov 97	17 Dec 97

**S-258**

University of California, San Diego

John Boaz	09 Nov 97	21 Dec 97
Ronald G. Patrick	09 Nov 97	21 Dec 97

**S-261**

Scripps Institution of Oceanography

B. Greg Mitchell	09 Nov 97	17 Dec 97
Rick A. Reynolds	09 Nov 97	21 Dec 97

**S-262**

Scripps Institution of Oceanography

Dariusz Stramski (Poland)	09 Nov 97	21 Dec 97
Benjamin Wheeler	09 Nov 97	17 Dec 97
Dee Breger	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Lois Breger	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97

Jose Debettencourt (Portugal)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Dagmar Havlova	29 Sep 97	03 Oct 97
Richard Iannuzzi	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Jaroslav Pavlicek	29 Sep 97	03 Oct 97
Synte Peacock	25 Aug 97	06 Sep 97

## **R/V POLAR DUKE**

### **Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
<b>S-028</b>		
<u>University of California, Santa Barbara</u>		
Karen Haberman	06 Nov 97	06 Apr 97
Caroline Shaw	07 Jan 97	06 Apr 97
<b>S-036</b>		
<u>University of Maine</u>		
Zoe Eppley	01 Mar 97	06 Apr 97
Peter Fields	31 Mar 97	07 May 97
Theresa Grove	01 Mar 97	21 Apr 97
Kristin O'Brien	01 Mar 97	07 May 97
Bruce Sidell	31 Mar 97	07 May 97
<b>S-037</b>		
<u>Northeastern University</u>		
Harry Detrich III	31 Mar 97	07 May 97
David Lau	01 Mar 97	06 Apr 97
Ronaldo Melki (France)	31 Mar 97	07 May 97
Sandra Parker	01 Mar 97	07 May 97
Sandra Pucciarelli (Italy)	31 Mar 97	07 May 97
Mikael Rutberg (Sweden)	01 Mar 97	06 Apr 97
Amna Saeed (Pakistan)	31 Mar 97	07 May 97

**S-085**

Christopher Bauman	09 Apr 97	07 May 97
Steven Emslie	01 Mar 97	21 Apr 97

**R/V LAURENCE M. GOULD**

**Dates in Antarctica**

**Arrived**                      **Departed**

**S-016**

Scripps Institution of Oceanography

Michael Crowder	09 Nov 97	17 Feb 98
Wendy Kozlowski	09 Nov 97	17 Feb 98
Karie Sines	16 Jan 98	
Marnie Zirbel	25 Jan 98	

**S-028**

University of California, Santa Barbara

Doug Conlin	09 Nov 97	17 Feb 98
Kimberly Grimm	25 Jan 98	17 Feb 98
Janice Jones (Canada)	09 Nov 97	
Jared Kneebone	16 Jan 98	19 Mar 98
Langdon Quetin	09 Nov 97	17 Jan 98

**S-032**

University of California, Santa Barbara

Dierdre Toole	25 Jan 98	
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**S-046**

University of Hawaii

Karin Bjorkman	25 Jan 98	17 Feb 98
Christopher Carrillo	25 Jan 98	17 Feb 98
Besse Dawson	25 Jan 98	17 Feb 98
Stuart Donachie	25 Jan 98	17 Feb 98



Terrence Houlihan	25 Jan 98	17 Feb 98
David Karl	25 Jan 98	17 Feb 98
Daniel Sadler	25 Jan 98	17 Feb 98

**S-072**

Hamilton College

Michael Belliveau (Canada)	28 Feb 98	19 Mar 98
Jill Brandon	28 Feb 98	19 Mar 98
Sarah Cook	28 Feb 98	19 Mar 98
Eugene Domack	28 Feb 98	19 Mar 98
Robert B Dunbar	14 Dec 97	12 Jan 98
Eli Enman	28 Feb 98	19 Mar 98
Bob Gilbert (Canada)	28 Feb 98	19 Mar 98
Peter Harris	28 Feb 98	19 Mar 98
Mark Hayes	28 Feb 98	19 Mar 98
Amy Leventer	28 Feb 98	19 Mar 98
Pat Manley	28 Feb 98	19 Mar 98
Timothy Morse	28 Feb 98	19 Mar 98
Patrick Reynolds	28 Feb 98	19 Mar 98
Harold Rowe	28 Feb 98	19 Mar 98
Amelia Shevenell	28 Feb 98	19 Mar 98
Michael Sperling	28 Feb 98	19 Mar 98
Fiona Taylor (Australia)	28 Feb 98	19 Mar 98
Steve Wood	28 Feb 98	19 Mar 98
Gunnela Gustavsson	28 Feb 98	19 Mar 98

**S-106**

Stanford University, STARLab

Mike Johnson	29 Mar 98
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## **R/V ABEL-J**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
<b>S-032</b>		
<u>University of California, Santa Barbara</u>		
Barbara Boczard	16 Jan 98	
Charleen Johnson	16 Jan 98	
<b>S-087</b>		
<u>University of Texas</u>		
James Foster	10 Dec 97	30 Dec 97
Fred Taylor	10 Dec 97	30 Dec 97
<b>S-097</b>		
<u>Washington University</u>		
Kenneth Lein (Chile)	10 Dec 97	30 Dec 97
Stacey Robertson	10 Dec 97	30 Dec 97
Patrick Shore (Canada)	10 Dec 97	30 Dec 97

## **National Science Foundation Staff**

### **McMurdo Station**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
Scott G. Borg	01 Oct 97	18 Nov 97
Frank Brier	26 Oct 97	08 Nov 97
Arthur J. Brown	26 Oct 97	22 Nov 97
"" "" ""	11 Jan 98	06 Feb 98
Maryellen Cameron	07 Nov 97	14 Nov 97
Erick Chiang	01 Oct 97	05 Oct 97

"" "" ""	11 Jan 98	16 Jan 98
"" "" ""	17 Jan 98	02 Feb 98
Tracy L. Deen	10 Jan 97	22 Jan 97
Margaret J. Dionne	22 Jan 98	10 Feb 98
Dwight D. Fisher	01 Oct 97	16 Dec 97
Elizabeth E. Gaston	17 Nov 97	21 Dec 97
Kim Y. Givens	03 Dec 97	09 Feb 98
Guy G. Guthridge	01 Oct 97	08 Nov 97
Bilal U. Haq	28 Oct 97	08 Nov 97
John B. Hunt	01 Dec 97	05 Dec 97
Nadene G. Kennedy	17 Jan 98	09 Feb 98
Susanne M. Lafratta	13 Nov 97	01 Dec 97
Harry Mahar	07 Jan 98	13 Feb 98
Roberta Marinelli	07 Jan 98	26 Jan 98
Albert G. Martin, III (winter over)#	18 Oct 96	17 Dec 97
Jerry W. Marty	08 Nov 97	13 Dec 97
Julie M. Palais	13 Nov 97	10 Dec 97
Dennis S. Peacock	17 Oct 97	29 Oct 97
"" "" ""	17 Jan 98	19 Jan 98
Polly A. Penhale	14 Dec 97	17 Dec 97
John S. Sherve (winter over)	09 Dec 97	
Patrick D. Smith	11 Jan 98	09 Feb 98
Cornelius W. Sullivan	29 Dec 96	03 Jan 97
Alexander L. Sutherland	14 Dec 97	19 Feb 98
Dennis M. Tupick	01 Dec 97	13 Dec 97
"" "" ""	20 Jan 98	31 Jan 98

### **South Pole Station**

#### **Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
Linda E Duguay	07 Jan 98	28 Jan 98
Hilleary D Everist	01 Dec 97	06 Jan 98
Leonard E Johnson	08 Nov 97	02 Dec 97
Jerry W. Marty	08 Nov 97	13 Dec 97

"" "" ""	11 Jan 98	17 Feb 98
John H Rand	08 Nov 97	05 Dec 97

### **Palmer Station**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
David Bresnahan	25 Jan 98	17 Feb 98
Harry Mahar	16 Sep 97	03 Oct 97
Sonia Ortega		30 Dec 97

## **Special Participants**

### **Media Visitors**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
<b>V-007</b>		
<u>TV New Zealand Film Crew</u>		
Jeannie Ackley	31 Oct 97	31 Jan 98
"" "" ""	10 Feb 98	01 Mar 98
Patrick Olmert	31 Oct 97	14 Nov 97
Michael A Single (New Zealand)	31 Oct 97	02 Feb 98
"" "" ""	09 Feb 98	01 Mar 98
<b>V-008</b>		
<u>New York Times</u>		
Cornelia Dean	05 Jan 98	14 Jan 98
<b>V-010</b>		
<u>Newsweek Magazine</u>		
Adam R Rogers	14 Dec 97	29 Dec 97

**V-011**

Science Magazine

Richard A Stone 21 Nov 97 05 Dec 97

**V-012**

Rocky Mountain News

Eric C Baker 01 Dec 97 22 Dec 97

Joseph B Verrengia 01 Dec 97 21 Dec 97

**V-014**

National Public Radio

Katherine Turco 25 Jan 98 17 Feb 98

**V-018**

Aviation Week and Space Technology

Bruce Nordwall 25 Jan 98 04 Feb 98

**V-026**

Swedish Broadcasting Corporation

Christer Larsson (Sweden) 28 Jan 98 06 Feb 98

**Official Visitors**

**Dates in Antarctica**

Arrived

Departed

**V-001**

National Science Board

Diana S Natalicio 01 Dec 97 05 Dec 97

Vera C Rubin 01 Dec 97 05 Dec 97

Warren M Washington 01 Dec 97 05 Dec 97

**V-006**

U.S. Embassy-New Zealand

Karen E Krueger, Counselor, Political & Economic 17 Dec 97 22 Dec 97

Affairs  
John P Whalen, Political Officer 17 Dec 97 22 Dec 97

*National Science Foundation*

*Arlington, Virginia 22230*

*November 30, 1998*

**V-022**

NSF and NOAA

Donald J Baker, Administrator for NOAA	11 Jan 98	15 Jan 98
Joseph Bordogna, Acting Deputy Director, NSF	11 Jan 98	15 Jan 98

**V-024**

Senator Stevens Congressional Delegation

Conrad R. Burns, Senator (R/MT)	17 Jan 98	19 Jan 98
Thad Cochran, Senator (R/MS)	17 Jan 98	19 Jan 98
Steven J. Cortese, Staff Director, Senate Appropriations Committee; SAC subcommittee on Defense	17 Jan 98	19 Jan 98
Larry E. Craig, Senator (R/ID)	17 Jan 98	19 Jan 98
Slade Gorton, Senator (R/WA)	17 Jan 98	19 Jan 98
Charles P. "Pat" Roberts, Senator (D/AR)	17 Jan 98	19 Jan 98
Miriam D. Becker, LT, USN, Asst. Legislative Affairs Officer, CINCPAC	17 Jan 98	19 Jan 98
Rose Cochran	17 Jan 98	19 Jan 98
Scott B. Gudes, Minority Clerk, SAC subcommittee on VA, HUD, and Independent Agencies	17 Jan 98	19 Jan 98
Mark H. Johnston, LCDR, USN, accompanying physician	17 Jan 98	19 Jan 98
Franki Roberts	17 Jan 98	19 Jan 98
Philip E. Ruter, COL, USAF	17 Jan 98	19 Jan 98
Theodore F. Stevens, Senator (R/AK)	17 Jan 98	19 Jan 98
David M. Stonner, NSF/OLPA escort	17 Jan 98	19 Jan 98
Michael O. Ware, Chief of Staff to Senator Craig	17 Jan 98	19 Jan 98

**V-015**

National Guard/Air Force

Bryan E Sharratt, Assistant Secretary Air Force for Reserve Affairs	17 Jan 98	21 Jan 98
Russell C Davis, MGEN, Vice Chief National Guard Bureau	17 Jan 98	21 Jan 98

Bob Bullock, MAJ, 109<sup>th</sup> ANG escort

**V-027**

John R Garamendi, Deputy Secretary, Dept. of Interior	22 Jan 98	26 Jan 98
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Theodore J Glauthier, OMB	22 Jan 98	26 Jan 98
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**V-030**

Department of State

Evan T Bloom	22 Jan 98	26 Jan 98
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**Special Visitors**

***McMurdo Station***

**Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
<b>V-005</b>		
Kenji Ishizawa (Japan), Logistics Section, NIPR	01 Dec 97	16 Dec 97
<b>V-021</b>		
Peter-Paul Mihailoff, Deputy U.S. Marshall, Hawaii	09 Dec 97	13 Dec 97
<b>V-025</b>		
Linda P Massaro, Director, Office of Information & Resource Management, NSF	11 Jan 98	16 Jan 98

**Writers and Artists**

**Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
<b>W-001</b>		
<u>Girl Scouts</u>		
Hannah J Thomas	20 Oct 97	14 Jan 98

**W-002**

Writer

Gretchen T Legler	27 Aug 97	01 Dec 97
"" "" ""	17 Dec 97	12 Jan 98

**W-003**

Photographer

Peter Brueggeman	28 Oct 97	06 Dec 97
Malcolm D Stokes (Canada)	01 Oct 97	02 Dec 97
Leighton R Taylor	01 Oct 97	08 Nov 97
Norbert M Wu	01 Oct 97	06 Dec 97

**W-004**

Writer

Rebecca L Johnson	13 Nov 97	14 Jan 98
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**Technical Events**

**Dates in Antarctica**

Arrived

Departed

**T-308**

NASA Wallops Flight Facility

Jaime Gallo (winter over)	16 Feb 98	
David J Hess (winter over)#	15 Feb 97	
David L Honea (winter over)#	02 Feb 97	20 Feb 98
Edward C Seman (winter over)	25 Aug 97	

**T-310**

John C Chan	25 Jan 98	06 Feb 98
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**T-375**

NASA\GSFC

Kevin M Ballou	27 Aug 97	20 Oct 97
Kurt D Rush	27 Aug 97	16 Oct 97
Stephen J Schaefer	02 Oct 97	26 Oct 97

*National Science Foundation*

*Arlington, Virginia 22230*

*November 30, 1998*



Salvatore F Somma 01 Feb 98 06 Feb 98

**T-376**

Naval Facility Eng Comm

Smith Johnston 07 Jan 98 14 Jan 98

**T-377A**

NASA\GSFC

Ronald Broadhurst 20 Jan 98 02 Feb 98

Abbas I Contractor 25 Jan 98 31 Jan 98

David J Rosage 21 Jan 98 31 Jan 98

**T-379**

Office of Aircraft Services

Lawrence Brosnan 17 Nov 97 17 Dec 97

Douglas M. Drury 07 Jan 98 10 Feb 98

Mark A. Reese 26 Oct 97 01 Dec 97

Allen P. Rice 01 Oct 97 26 Oct 97

**T-382**

Medical Care Review Panel

Melvin M Maeda 08 Nov 97 22 Nov 97

**T-383**

NSF

Lee Holmes 08 Nov 97 14 Nov 97

Jonathan P Kumin 08 Nov 97 14 Nov 97

**T-384**

CRREL

Allan J Delaney 14 Nov 97 01 Dec 97

Dennis J Lambert 07 Jan 98 26 Jan 98

Michael R Walsh 07 Jan 98 26 Jan 98

Christopher R Williams 14 Nov 97 01 Dec 97

**T-385**

NAVY NMIC

Richard Makarski 17 Nov 97 01 Dec 97

**T-386**

Jackson & Tull

Christopher T. Stathes 22 Jan 98 31 Jan 98

Michael O. Ware 22 Jan 98 31 Jan 98

**T-390**

Petroleum Helicopters, Inc.

Dennis Alston 14 Dec 97 24 Jan 98

Robert T Bohner 01 Oct 97 10 Feb 98

Ethan J Conner 02 Oct 97 10 Feb 98

Christopher T Dean 01 Oct 97 09 Feb 98

Richard L Dipboye 01 Oct 97 09 Feb 98

Everett D Fouts 27 Aug 97 09 Feb 98

Jack D Hawkins 01 Oct 97 10 Feb 98

Guy M Knipe 27 Aug 97 09 Feb 98

Gregg A Leibert 01 Oct 97 10 Feb 98

John E Losure 01 Oct 97 10 Feb 98

David D Medley 02 Oct 97 09 Feb 98

John S Pentecost 01 Oct 97 10 Feb 98

Wilburn E Sangurima 27 Aug 97 09 Feb 98

**T-513**

Biospherical Instruments, Inc.

James C. Ehamjian 02 Jan 98 14 Jan 98

James S. Robertson 02 Jan 98 21 Jan 98

" " " 29 Mar 98

**T-521**

Beckman/Australia

Gavin L. Watson (Australia) 06 Oct 97 11 Oct 97

**E-001**

HF E-Mail System

Michael J Peebles 20 Oct 97 08 Nov 97

William G Robertson Jr 14 Oct 97 05 Dec 97

**E-003**

ASOS Grooming

Victor L Sitton 20 Oct 97 30 Oct 97

**E-004**

HF Evaluation

Robert W Renoud 28 Oct 97 08 Nov 97

James C Veatch 28 Oct 97 08 Nov 97

**E-005**

FAA Flight Check

Timothy C Banks 26 Oct 97 30 Oct 97

Edward L Bradley 26 Oct 97 30 Oct 97

David A Vanness 26 Oct 97 30 Oct 97

"" "" 01 Dec 97 21 Dec 97

**E-006**

Frequency Coordination

David A Kroth 06 Nov 97 13 Dec 97

**E-007**

Meteorological Assessment \ System Improvements

Frederick Cruz 14 Nov 97 01 Dec 97

Scott K Beck 14 Nov 97 01 Dec 97

**E-008**

Tower Upgrades

Timothy R Kimbrell	17 Nov 97	02 Dec 97
Donald L Gilbert	17 Nov 97	02 Dec 97

**E-009**

Tower Relocation

Emmett R Craven	16 Jan 98	26 Jan 98
Michael J Peebles	16 Jan 98	26 Jan 98
Jerry N Viita	16 Jan 98	26 Jan 98

**E-010**

FAA Flight Check

Glenn R Bissonnette	14 Dec 97	21 Dec 97
Tony E Jones	14 Dec 97	21 Dec 97
Edward W Lucke Jr.	14 Dec 97	21 Dec 97

**E-011**

Air Traffic Control Quality Assurance

Robert N Baird	13 Jan 98	19 Jan 98
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**E-018**

ARNAV, Inc.

Ector D Jones	20 Jan 98	26 Jan 98
Max E Kitch	20 Jan 98	26 Jan 98

**F-401**

NSFA

Christopher Bersani	26 Oct 97	26 Oct 97
"" ""	18 Nov 97	24 Nov 97

**A-500**

Kenn Borek		
Kenneth P Janzen (Canada)		31 Dec 97

Doug Shields	02 Jan 98	
Gerald E Skocdopole (Canada)	13 Nov 97	21 Jan 98
Sean A Loutitt (Canada)	14 Dec 97	24 Jan 98
Richard G Wilson (Canada)	14 Dec 97	24 Jan 98

**A-502**

Trimble Nav

James N Greenberg	20 Oct 97	30 Oct 97
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**A-503**

Seaspace

Eric C Rauscher	17 Oct 97	26 Oct 97
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**A-507**

Arch Technician

Victor Lee	13 Jan 98	19 Jan 98
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**A-508**

Lacoste & Romberg

Janette P Hobbs	11 Jan 98	15 Jan 98
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**A-509**

ETS

Wallace K Grissom	08 Nov 97	18 Nov 97
Tyree Jackson	08 Nov 97	18 Nov 97

**A-512**

Lori J Prior (New Zealand)	20 Oct 97	
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**A-520**

ECD - ASBE

John D Brewer	21 Nov 97	16 Dec 97
Donn D Laflamme	21 Nov 97	16 Dec 97
Frank C Russo	21 Nov 97	16 Dec 97

**A-523**

Philip Environmental

Weston L Barkwill 03 Nov 97 06 Feb 98

**A-524**

Gunnar N Ulander (Sweden) 01 Dec 97 08 Jan 98

**A-528**

Midwest El

Walter Powell 28 Oct 97 26 Nov 97

**A-530**

Christchurch Catholic Diocese

John Coleman (New Zealand) 02 Oct 97 08 Nov 97

"" "" "" 25 Jan 98 10 Feb 98

Christopher J Friel (New Zealand) 02 Jan 98 21 Jan 98

John P Jolliffe (New Zealand) 01 Dec 97 03 Jan 98

Stephen M Lowe (New Zealand) 03 Nov 97 02 Dec 97

**A-535**

Roger A Cain (New Zealand) 05 Oct 97 14 Oct 97

**A-542**

Spacemark

Edward Burnette (winter over)# 26 Oct 97 26 Oct 97

Lionel L Carpenter (Canada) 14 Oct 96 29 Jan 97

"" "" "" (winter over)# 12 Feb 97 11 Oct 97

"" "" "" (winter over) 16 Feb 98

Harry A Dyson (winter over) 11 Oct 97

David R Evensen 02 Oct 97 10 Feb 98

Daniel L Hance (winter over) 25 Aug 97

Christopher J Herring (winter over) 11 Oct 97

Wendy M Kober (winter over) 14 Oct 97

Jerome Pratt	28 Oct 97	16 Jan 98
"" "" "" (winter over)	09 Feb 98	
Gregory H Towns	05 Oct 97	08 Oct 97
"" "" "" (winter over)	28 Oct 97	
Madison W Hall (winter over)#	15 Feb 97	30 Oct 97
"" "" "" (winter over)	10 Feb 98	
George M Kimball	07 Jan 98	14 Jan 98
Garner P Mc Intyre (winter over)#	20 Aug 96	25 Aug 97
Chris A Moxon (winter over)#	12 Oct 96	21 Aug 97
"" "" ""	27 Aug 97	10 Feb 98
Robert Simpson (winter over)#	14 Oct 96	26 Oct 97
David R Smith (winter over)#	13 Nov 96	06 Oct 97

**A-546**

Marcus J Stocks (New Zealand)	05 Dec 97	23 Dec 97
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**A-548**

Medical Transition

Gerald Katz	16 Oct 97	13 Nov 97
Robert Matoba	30 Nov 97	09 Dec 97

**A-549**

Psychiatric Evaluations

John D Glismann	07 Jan 98	14 Jan 98
Cristina L Lawrence	07 Jan 98	14 Jan 98
John A Nicoletti	07 Jan 98	14 Jan 98
Boyd J Tomasetti	07 Jan 98	14 Jan 98

SPAWAR

Thaddeus P Postemski	17 Jan 98	19 Feb 98
Russell M Young	13 Jan 98	19 Jan 98
Garrett L Pendleton (winter over)	22 Jan 98	
Francis A Ashline	06 Oct 97	10 Feb 98
Dustin J Barrett	14 Oct 97	02 Feb 98
"" "" (winter over)	10 Feb 98	

Kenneth W Baxley	11 Oct 97	01 Dec 97
Richard P Bidwell	27 Aug 97	17 Feb 98
Michael P Blomquist	14 Oct 97	01 Dec 97
"" ""	22 Dec 97	17 Feb 98
David R Cascarella	14 Oct 97	21 Feb 98
Arthur M Cayette	25 Aug 97	01 Dec 97
"" ""	02 Jan 98	17 Feb 98
Craig J Chambers	21 Aug 97	14 Nov 97
Doug Charko	01 Oct 97	23 Dec 97
"" ""	28 Jan 98	23 Feb 98
Dirk W Christiansen (winter over)	05 Jan 98	
James L Cook	11 Oct 97	10 Feb 98
Lonnie L Darr	21 Aug 97	23 Feb 98
Peter Dumont	06 Oct 97	21 Feb 98
Kenton W Edele	02 Oct 97	24 Jan 98
David E Ferguson	11 Oct 97	23 Feb 98
Angela L Garner (winter over)#	26 Jan 97	01 Oct 97
"" ""	03 Nov 97	23 Feb 98
Michael S Griesman	27 Aug 97	06 Jan 98
Carl E Harrison	25 Aug 97	16 Dec 97
"" ""	16 Jan 98	17 Feb 98
Gregory Harrison	14 Oct 97	21 Feb 98
George F Howard III	01 Oct 97	19 Feb 98
David M Kerrigan	11 Oct 97	10 Feb 98
Jesse L King	20 Oct 97	19 Feb 98
Michael E Maclean	01 Oct 97	12 Feb 98
Peter E Martellini	02 Oct 97	19 Feb 98
Daniel J Molter	20 Oct 97	17 Feb 98
Michael R Moran	20 Oct 97	12 Feb 98
Richard L Morfeld	02 Oct 97	21 Dec 97
Michael P Osterhouse	25 Aug 97	31 Oct 97
"" ""	05 Dec 97	17 Feb 98
Greg M Pellegrin	11 Oct 97	23 Feb 98
Deena R Petersen	21 Nov 97	12 Feb 98



Stephan P Postemski	01 Oct 97	19 Feb 98
David A Robertson	21 Aug 97	22 Dec 97
Robert E Ruehl	25 Aug 97	31 Oct 97
"" ""	17 Nov 97	23 Feb 98
Jonathan D Shields	21 Aug 97	12 Jan 98
Katherine M Smith	11 Oct 97	10 Feb 98
Randall J Spink	02 Oct 97	04 Feb 98
Russell S Staples	11 Oct 97	10 Feb 98
Jerry W Taylor	20 Jan 98	21 Feb 98
William J Thelen	27 Aug 97	13 Nov 97
"" ""	05 Dec 97	23 Feb 98
Mathew A Thompson	02 Oct 97	08 Jan 98
"" "" (winter over)	10 Feb 98	
Susan F Thompson	02 Oct 97	20 Feb 98
Arnie V Thompson	02 Oct 97	20 Feb 98
Mary F Tutza	27 Aug 97	04 Feb 98
Perry D Vath	11 Oct 97	12 Feb 98
Steven B Walton	03 Nov 97	19 Feb 98
Thomas E Woodall	02 Oct 97	29 Jan 98
Jeffrey F Yarris	02 Oct 97	21 Feb 98
Darren G Ylinen	02 Oct 97	02 Feb 98
"" "" (winter over)	10 Feb 98	

### ***South Pole Station***

#### **Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
<b>T-377</b>		
<u>Allied Signal Technical Services</u>		
Kevin Culin	21 Nov 97	09 Feb 98
Andre S. Fortin	14 Dec 97	16 Jan 98
Hugh B. O'Donnell	21 Nov 97	08 Jan 98

#### **T-382**

##### PACDIV

Steven M. Theno	16 Jan 98	24 Jan 98
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**T-385**

NAVY NMIC

Robert Welch	17 Nov 97	01 Dec 97
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**R/V POLAR DUKE**

**Dates in Antarctica**

Arrived

Departed

**T-539**

Mark Furnish	31 Mar 97	07 May 97
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**Antarctic Support Associates (civilian support contractor)**

**McMurdo Station**

**Dates in Antarctica**

Arrived

Departed

Robin R. Abbott	01 Oct 97	14 Feb 98
Catherine Y. Abel	08 Nov 97	22 Nov 97
Greg C. Adamiak (winter over)#	21 Feb 97	08 Oct 97
Paula L. Adkins	14 Oct 97	07 Feb 98
Steven M. Ager	05 Oct 97	20 Feb 98
Lawrence M. Ahlin, Jr	16 Oct 97	17 Feb 98
Jeffrey S. Akens	02 Oct 97	20 Feb 98
Michelle R. Akens (winter over)	28 Oct 97	
Jesse J. Alcorta	02 Oct 97	31 Oct 97
"" "" ""	08 Nov 97	29 Jan 98
"" "" ""	01 Feb 98	19 Feb 98

Dan M. Aldous	01 Oct 97	17 Feb 98
Danny M. Aldous	02 Oct 97	25 Jan 98
"" "" "" (winter over)	02 Feb 98	
Barbara J. Allen	25 Aug 97	17 Feb 98
Nicholas J. Ammon	08 Oct 97	14 Jan 98
"" "" "" (winter over)	06 Feb 98	
Edward P. Anderson	20 Oct 97	23 Feb 98
Paul Anspach	27 Aug 96	20 Feb 97
Jason C. Anthony	08 Oct 96	10 Feb 97
Scott R. Antill	02 Oct 97	20 Feb 98
Andrew B. Archer	14 Oct 97	21 Jan 98
Frank J. Arduini	20 Jan 98	19 Feb 98
Pedro A. Arechiga (winter over)#	08 Oct 96	01 Oct 97
Kelly Arnold	06 Oct 97	20 Feb 98
Lorraine C. Ashida	02 Oct 97	23 Feb 98
Kelly K. Atchley (winter over)#	21 Feb 97	25 Aug 97
Michael D. Austinson	08 Oct 97	10 Feb 98
Mette Axelsen (winter over)#	09 Feb 97	08 Nov 97
"" "" ""	17 Nov 97	10 Feb 98
Eric D. Baca	01 Oct 97	21 Feb 98
Michael A. Baclawski	26 Oct 97	17 Feb 98
Victoria Baergen (winter over)#	06 Feb 97	01 Oct 97
Deborah G. Baldwin	02 Oct 97	28 Jan 98
Mariette Baldwin	02 Oct 97	23 Feb 98
Cathy D. Banoczi (winter over)	05 Oct 97	
John R. Banoczi (winter over)	05 Oct 97	
Ann L. Barnett	27 Aug 97	11 Nov 97
"" "" ""	01 Dec 97	19 Feb 98
Leroy F. Barnett	27 Aug 97	11 Nov 97
Christopher J. Barney	25 Aug 97	21 Feb 98
Allison Barrows	02 Oct 97	14 Oct 97
Juan T. Basurto	21 Aug 97	23 Feb 98
Bo S. Baumgartner	27 Aug 97	14 Jan 98
"" "" "" (winter over)	25 Jan 98	

Lisa M. Beal	25 Aug 97	20 Feb 98
Caroline A. Beane	22 Dec 97	21 Feb 98
James B. Beard	02 Oct 97	20 Feb 98
Roger R. Beaty (winter over)#	09 Feb 97	06 Oct 97
"" "" "" (winter over)	02 Feb 98	
Diane Bedell	01 Oct 97	10 Feb 98
Wendy R Beeler (winter over)	15 Feb 98	
Philip A Bennett	06 Oct 97	17 Feb 98
Bryan D Berg (winter over)#	09 Feb 97	11 Oct 97
Jon C Berg	14 Oct 97	09 Feb 98
Allen C Berggren (winter over)#	12 Oct 96	14 Oct 97
Clark G Bergquist	26 Oct 97	02 Feb 98
Terri L Berkey	05 Oct 97	23 Feb 98
Harold F Bestgen, I I	02 Oct 97	21 Feb 98
Terry A Billings (winter over)	31 Oct 97	
Michael E Birkmeyer	01 Dec 97	17 Feb 98
Rick J Bishop	02 Oct 97	
Russell A Bixby (winter over)#	09 Feb 97	30 Oct 97
"" "" ""	08 Nov 97	23 Feb 98
Paul E Bjorkman (winter over)#	27 Aug 96	05 Oct 97
Michael J Blachut (winter over)#	16 Feb 96	16 Oct 97
Angeliana Y Blackman	25 Jan 98	16 Feb 98
Charles J Blackmer	16 Oct 97	21 Feb 98
Lisa L Blackwell	13 Nov 97	12 Feb 98
Donald M Blue	06 Oct 97	20 Feb 98
Ebe A Boettcher	06 Oct 97	17 Feb 98
Justin W Bohn	25 Aug 97	20 Feb 98
David H Bolton	06 Oct 97	20 Feb 98
Paul D Bomers	25 Aug 97	23 Feb 98
Esther R Boone (winter over)#	21 Feb 97	09 Dec 97
"" "" "" (winter over)	16 Feb 98	
John E Booth (winter over)	25 Aug 97	
Brien T Borden	11 Jan 98	16 Jan 98
Kim A Bracchi (winter over)#	08 Oct 96	11 Oct 97

Stephanie L Brackin	01 Oct 97	17 Feb 98
Peter Braddock (New Zealand)	26 Oct 97	31 Jan 98
Elizabeth A Bradley	27 Aug 97	09 Feb 98
James L Brady	16 Oct 97	19 Feb 98
Carol C Brandon	14 Oct 97	12 Feb 98
Harry M Braun	25 Aug 97	17 Feb 98
Kenneth W Bray (winter over)	20 Oct 97	
David A Breitenfeld	02 Oct 97	12 Feb 98
Daniel L Brewster	27 Aug 97	12 Feb 98
William R Briggs	08 Oct 97	10 Feb 98
Aaron M Brillhart (winter over)#	27 Aug 96	11 Oct 97
Scott L Brisco	25 Aug 97	09 Dec 97
Sunny G Brock	05 Oct 97	17 Feb 98
Donald W Brogan, Jr. (winter over)#	08 Oct 96	16 Oct 97
" " " (winter over)	25 Jan 98	
Brian Brooks (winter over)#	26 Jan 97	02 Oct 97
"" "" "" (winter over)	02 Feb 98	
Roy W Brossman (winter over)#	16 Jan 97	06 Oct 97
"" "" ""	20 Oct 97	10 Feb 98
Garland L Brown	02 Oct 97	20 Feb 98
Julia E Brown	16 Oct 97	20 Feb 98
Steven D Brown	06 Oct 97	20 Feb 98
Steven W Brown	06 Oct 97	19 Jan 98
"" "" "" (winter over)	02 Feb 98	
Susan P Brown	01 Oct 97	10 Feb 98
Stephen M Brownell	17 Feb 96	
"" "" "" (winter over)	16 Oct 97	
Steven C Bruce (winter over)	05 Oct 97	
Charles A Brumbaugh	05 Oct 97	17 Feb 98
Max Brumley	12 Feb 97	17 Oct 97
Daniel R Bryan (winter over)	25 Aug 97	
Jeffrey D Bryant (winter over)#	07 Mar 97	06 Oct 97
Margaret R Burke	20 Jan 98	28 Jan 98
Derrold C Burnett	02 Jan 98	19 Feb 98

Timothy R Burns	01 Oct 97	19 Feb 98
Jay S Burnside	21 Aug 97	19 Feb 98
Anne M Burton	01 Dec 97	17 Feb 98
Tyler W Burton	13 Nov 97	17 Feb 98
Errol Cakici (winter over)#	07 Mar 97	11 Oct 97
Mark J Campbell (winter over)#	12 Jan 97	08 Oct 97
"" "" "" (winter over)	05 Jan 98	
Robert L Campbell	06 Oct 97	26 Jan 98
Anthony M Canzoneri	25 Aug 97	29 Dec 97
Carla J Carlson	16 Oct 97	20 Feb 98
Kristyn R Carney	06 Oct 97	20 Feb 98
James R Carpenter	21 Aug 97	17 Feb 98
Cami G Carr	05 Oct 97	19 Feb 98
Steven E Carr	21 Aug 97	19 Feb 98
Valerie Carroll	21 Jan 98	12 Feb 98
Charles S Carson	26 Oct 97	25 Jan 98
"" "" "" (winter over)	10 Feb 98	
Daniel E Carteaux (winter over)#	08 Oct 96	05 Oct 97
Jonathan J Carter	02 Oct 97	13 Nov 97
Thomas L Cashler	05 Oct 97	31 Jan 98
Katy M Cassidy	31 Oct 97	10 Feb 98
Suzanne Cassidy (winter over)#	11 Feb 97	27 Aug 97
Durant H Cephers (winter over)#	09 Feb 97	08 Nov 97
"" "" ""	17 Nov 97	10 Feb 98
James L Chambers	21 Aug 97	27 Aug 97
"" "" ""	23 Dec 97	19 Feb 98
Raymond R Chambers	08 Oct 97	20 Feb 98
Frederick J Chambers, Jr. (winter over)	02 Feb 98	
Nola K Chandler	01 Oct 97	18 Feb 98
Charles R Chase	02 Oct 97	17 Feb 98
Vicki L Chavka	27 Aug 97	21 Jan 98
Alexander L Chin	01 Oct 97	06 Feb 98
Jill R Christensen	25 Aug 97	10 Feb 98
Kent E Christensen	25 Aug 97	10 Feb 98

Michael T Claiborne	06 Oct 97	10 Feb 98
John J Clampet	20 Oct 97	20 Feb 98
Hank G Clouser	17 Oct 96	16 Feb 97
Susan Codega	25 Aug 97	31 Oct 97
Timothy P Coffey	05 Oct 97	17 Dec 97
"" "" ""	02 Jan 98	17 Feb 98
Theresa L Coffin (winter over)	01 Oct 97	
Johnny Cofield	21 Aug 97	19 Jan 98
Douglas J Cohn	06 Oct 97	25 Jan 98
"" "" "" (winter over)	02 Feb 98	
Lucille M Cole	06 Oct 97	09 Dec 97
"" "" ""	05 Jan 98	19 Feb 98
Steven L Coleman (winter over)#	08 Oct 96	05 Oct 97
Alexander H Colhoun	05 Oct 97	12 Feb 98
Cynthia C Collins	25 Aug 97	12 Jan 98
"" "" "" (winter over)	22 Jan 98	
Bryan J Collom	25 Aug 97	08 Nov 97
"" "" ""	14 Nov 97	16 Jan 98
"" "" "" (winter over)	06 Feb 98	
Paul A Conlon	16 Oct 97	17 Feb 98
Brian J Connell	14 Oct 97	21 Feb 98
Keith A Conrey	21 Aug 97	13 Nov 97
Orinda N Conway	25 Aug 97	21 Feb 98
Randall W Conway	21 Aug 97	21 Feb 98
Ellen R Copeland	14 Dec 97	17 Feb 98
Glen M Corbett	05 Oct 97	17 Feb 98
Kathleen Corcoran	08 Oct 97	23 Feb 98
Cheryl L Corey (winter over)#	15 Dec 96	13 Nov 97
"" "" ""	01 Dec 97	10 Feb 98
Allen G Cornelison	16 Oct 97	17 Feb 98
Rex M Cortner (winter over)#	30 Jan 97	27 Aug 97
"" "" "" (winter over)	16 Feb 98	
Dennis L Costello (winter over)#	08 Oct 96	05 Oct 97
"" "" "" (winter over)	02 Feb 98	

Rex E Cotten (winter over)#	19 Feb 97	27 Aug 97
"" "" ""	11 Oct 97	13 Feb 98
Annie K Coward	02 Oct 97	19 Feb 98
Jeffrey L Cowman (winter over)#	12 Jan 97	05 Oct 97
Vincent R Cox (winter over)	17 Oct 97	
Joseph A Craig	01 Oct 97	20 Feb 98
Carol J Crane	05 Oct 97	08 Nov 97
Gerald L Crist	21 Aug 97	20 Feb 98
Robert R Croke	02 Jan 98	09 Feb 98
Mariah J Crossland	06 Oct 97	17 Feb 98
John E Crowe	16 Oct 97	18 Nov 97
David J Crawl	02 Oct 97	28 Jan 98
"" "" "" (winter over)	12 Feb 98	
Ingrid M Crawl	02 Oct 97	28 Jan 98
"" "" "" (winter over)	12 Feb 98	
Sonny Culbreath (winter over)	25 Aug 97	
Timothy J Cully	17 Oct 97	10 Feb 98
Christopher J Cunning	21 Aug 97	23 Feb 98
Fred D Cunningham	27 Aug 97	19 Feb 98
James H Cunningham	07 Jan 98	26 Jan 98
Dodds L Cupit, Jr.	16 Oct 97	17 Feb 98
Adam L Daar	30 Oct 97	23 Dec 97
Amy E Dahl (winter over)	25 Aug 97	
Tracy S Dahl (winter over)	27 Aug 97	
Julia Danford	27 Aug 97	16 Feb 98
Matthew E Davidson	05 Oct 97	17 Feb 98
Donald J Davis	23 Dec 97	16 Jan 98
"" "" "" (winter over)	04 Feb 98	
Joanne E Davis	14 Oct 97	17 Feb 98
Kenneth L Davis	08 Nov 97	12 Feb 98
Patrick W De Cory	08 Oct 97	20 Feb 98
Shelly J De Nike	05 Oct 97	07 Feb 98
Theodore E Decker	26 Oct 97	17 Feb 98
Nancy L Denham	17 Oct 97	02 Feb 98



Christopher P Denker	02 Oct 97	19 Feb 98
David R Denny	05 Oct 97	17 Feb 98
Jeffrey E Derry	02 Oct 97	17 Feb 98
Theodore J Dettmar	25 Aug 97	09 Feb 98
David J Devere (winter over)#	26 Jan 97	11 Oct 97
Valerie A Dexter (winter over)#	07 Oct 96	11 Oct 97
Richard P Dexter, Jr. (winter over)#	10 Oct 96	11 Oct 97
Susan M Deyoe	11 Oct 97	17 Feb 98
Rudolph J Dichtl	14 Oct 97	12 Feb 98
Bonnie L Digiacomio	14 Oct 97	17 Feb 98
Thomas H Dishneau (winter over)#	12 Jan 97	05 Oct 97
"" "" "" (winter over)	16 Feb 98	
James L Dobbs	27 Aug 97	10 Feb 98
Carolyn A Doe	14 Oct 97	20 Feb 98
Joseph K Doggett	31 Oct 97	20 Feb 98
Ronald D Dole, Jr	25 Aug 97	28 Jan 98
Jose R Dominguez (winter over)#	15 Feb 97	30 Oct 97
"" "" "" (winter over)	16 Feb 98	
Jesse M Doren (winter over)	13 Jan 98	
Christine J Drabnis (winter over)#	10 Oct 96	06 Oct 97
Robert E Drake	01 Dec 97	17 Feb 98
Keith C Dreher (winter over)	25 Aug 97	
Sara T Duke (winter over)#	12 Oct 96	05 Oct 97
Sean H Duke (winter over)	22 Dec 97	
Stephen P Dunbar	01 Oct 97	20 Feb 98
Robert M Dunn	27 Aug 97	17 Feb 98
Craig M Dunne (winter over)	01 Oct 97	
Ross E Dupuis	17 Oct 97	23 Feb 98
Jeanne Duran	17 Oct 97	10 Feb 98
Michael J Durnan	16 Oct 97	17 Feb 98
Michael S Ebel (winter over)#	15 Feb 97	26 Jan 98
Thomas K Edwards (winter over)	21 Aug 97	
Harry A Egeland (winter over)	21 Aug 97	
Roy S Egeland (winter over)#	15 Feb 97	08 Nov 97

"" "" ""	17 Nov 97	21 Feb 98
Mark J Eisinger (winter over)#	15 Feb 97	31 Oct 97
"" "" ""	14 Nov 97	02 Feb 98
James P Ekins	13 Nov 97	17 Feb 98
Paula J Elliott	14 Oct 97	10 Feb 98
Willive I Elliott	01 Oct 97	20 Feb 98
Wiley W Ellis	01 Dec 97	17 Feb 98
Lonnie Ely (winter over)	08 Oct 97	
Joni G English	02 Oct 97	21 Feb 98
Christopher L Erb (winter over)	08 Oct 97	
James W Evans	31 Oct 97	20 Feb 98
Zenobia E Evans (winter over)	06 Oct 97	
Daniel B Fahrney	21 Aug 97	21 Feb 98
Nancy A Farrell	11 Oct 97	20 Feb 98
Lisa R Ferber	25 Aug 97	10 Feb 98
Larry Fercho	08 Oct 97	31 Jan 98
Jennifer Ferrill	05 Dec 97	19 Feb 98
Jill A Ferris	05 Oct 97	10 Feb 98
Douglas A Fink	01 Oct 97	23 Feb 98
Jason C Firchau (winter over)#	21 Feb 97	11 Oct 97
Timothy O Fitzgibbon	08 Oct 97	20 Feb 98
Megan Flanagan	02 Oct 97	20 Feb 98
Christine A Foley (winter over)#	29 Dec 96	13 Nov 97
Richard K Foley	22 Dec 97	14 Jan 98
Lora L Folger	27 Aug 97	23 Feb 98
Jay A Foraker	05 Dec 97	24 Jan 98
Nancy E Ford	14 Nov 97	02 Feb 98
Stephen H Forguson (winter over)	25 Aug 97	
Renita G Forsh	02 Oct 97	12 Feb 98
James L Fortson (winter over)#	02 Feb 97	16 Oct 97
Claudette L Fournier	27 Aug 97	21 Feb 98
Remy D Fourre	05 Jan 98	03 Feb 98
Thomas A Fouts	25 Aug 97	12 Feb 98
Jennifer L Fox	02 Oct 97	21 Feb 98

Spencer J Fox	02 Oct 97	29 Dec 97
Joel Foy	25 Aug 97	20 Feb 98
Joel A Frank	14 Oct 97	20 Feb 98
Richard W Frank (winter over)#	19 Feb 97	11 Oct 97
Todd R Franson	06 Oct 97	12 Feb 98
Cynthia L Frazee	06 Oct 97	17 Feb 98
Ann P Freeland	25 Jan 98	09 Feb 98
J B Freeman	08 Nov 97	13 Feb 98
Michael K Fritz	23 Dec 97	29 Dec 97
Mimi N Fujino	01 Oct 97	17 Feb 98
Faye E Gabriel (winter over)#	08 Oct 96	06 Oct 97
Ronald E Gabriel (winter over)#	08 Oct 96	06 Oct 97
Raymond J Gabriel, II	01 Oct 97	23 Feb 98
Christine R Gagnon	26 Oct 97	19 Feb 98
Thomas J Gagnon	26 Oct 97	19 Feb 98
Patrick D Gainey	27 Aug 97	20 Feb 98
Jerry M Galang	25 Jan 98	16 Feb 98
Gerard J Gales (winter over)	01 Oct 97	
Charles W Gallagher (winter over)#	20 Aug 96	01 May 97
Michael Gallagher (winter over)#	12 Oct 96	05 Oct 97
Walter L Gallagher	17 Dec 97	14 Jan 98
Christine M Gamble	14 Nov 97	20 Feb 98
Angela L. Garner (winter over)#	26 Jan 97	01 Oct 97
Gregg L Garramone	25 Aug 97	21 Feb 98
Brenda Gelsleichter	05 Oct 97	20 Feb 98
Evelyn L Genkinger	06 Oct 97	03 Feb 98
Maria L Gesicki	16 Oct 97	20 Feb 98
Chris L Getz	16 Oct 97	20 Feb 98
Chester D Gilmore	08 Oct 97	10 Feb 98
Robert W Gilmore	02 Oct 97	10 Feb 98
Melvin H Glover I I I	05 Oct 97	20 Feb 98
Harold G Gober	27 Aug 97	16 Jan 98
"" "" "" (winter over)	25 Jan 98	
Casey Goddard	02 Oct 97	17 Feb 98

Cristin E Goddard	02 Oct 97	20 Feb 98
Judy A Goldsberry (winter over)#	15 Dec 96	26 Oct 97
"" "" ""	03 Nov 97	24 Jan 98
Vincent J Gordon	05 Oct 97	10 Feb 98
Cassandra J Graber	05 Dec 97	20 Feb 98
Harold W Grandchamp	14 Oct 97	19 Feb 98
Paul R Grandchamp (winter over)	27 Aug 97	
Brooke M Grant	02 Oct 97	20 Feb 98
Glenn E Grant (winter over)#	12 Oct 96	20 Oct 97
Kristine L Gray	02 Oct 97	12 Feb 98
David P Green	08 Oct 97	09 Feb 98
Eric G Grodt	01 Oct 97	19 Feb 98
Robert Guidi (winter over)#	21 Feb 97	02 Dec 97
"" "" ""	14 Dec 97	10 Feb 98
Sarah S Gundlach	11 Oct 97	07 Feb 98
Bill E Haals	21 Aug 97	08 Nov 97
Jeffrey C Haas	06 Oct 97	21 Feb 98
Melanie A Haban	26 Oct 97	23 Dec 97
Alicia C Hadfield	14 Nov 97	20 Feb 98
John P Hahn, Jr. (winter over)	25 Aug 97	
Michael P Hains	26 Oct 97	23 Feb 98
Cynthia M Hale	05 Oct 97	13 Nov 97
Jere T Hamilton	08 Oct 97	23 Feb 98
Kelly D Hance	21 Aug 97	20 Feb 98
Nancy E Hannah (winter over)	25 Aug 97	
Ria Harboe	02 Oct 97	21 Jan 98
"" "" "" (winter over)	30 Jan 98	
David Harris	02 Oct 97	23 Feb 98
Brad A Hasley	26 Oct 97	29 Jan 98
John H Hatcher, III	14 Nov 97	16 Dec 97
James W Hathaway	02 Oct 97	02 Feb 98
John Havlik	27 Aug 97	20 Feb 98
Philip C Hayward	26 Oct 97	23 Feb 98
Richard V Heermance, I I I	27 Aug 97	20 Feb 98

Emily Heikkala (winter over)#	06 Feb 97	02 Oct 97
"" "" "" (winter over)	10 Feb 98	
Joseph J Heil, I I I	21 Aug 97	21 Feb 98
Ronald J Hendricks (winter over)#	19 Jan 97	01 Oct 97
"" "" "" (winter over)	12 Feb 98	
Troy R Henkels (winter over)	16 Oct 97	
Kristen Henry	14 Oct 97	17 Feb 98
Kimberly K Heuchert	02 Oct 97	13 Dec 97
John H Hewins	21 Aug 97	01 Oct 97
"" "" "" (winter over)	26 Oct 97	
Sally Hibbard- Moore (winter over)	27 Aug 97	
James W Hibbs (winter over)#	21 Feb 97	11 Oct 97
"" "" "" (winter over)	25 Jan 98	
Richard P Hicks (winter over)	25 Aug 97	
Richard F Higgins	28 Oct 97	17 Feb 98
Christopher A Hill	02 Oct 97	10 Feb 98
Kay Lynn Hill (winter over)#	09 Feb 97	01 Oct 97
Knut Hill	11 Oct 97	17 Feb 98
Ruth D Hill (winter over)#	08 Oct 96	18 Nov 97
Lenore J Hinson (winter over)#	06 Feb 97	08 Nov 97
Mark C Hitchcock	02 Oct 97	17 Feb 98
Dennis J Hoffman	05 Oct 97	20 Feb 98
Alan P Hogan	25 Aug 97	22 Feb 98
Kevin J Hohman	05 Oct 97	02 Feb 98
Stephen P Holland	05 Oct 97	25 Jan 98
Tasha M Hollerbach	27 Aug 97	03 Feb 98
Eric J Holm	05 Oct 97	10 Feb 98
Patrick B Holton	16 Oct 97	17 Feb 98
Laura J Homokay	25 Aug 97	17 Feb 98
Patrick Hook	11 Oct 97	12 Feb 98
Loren T Hopkins	11 Oct 97	23 Dec 97
"" "" ""	16 Jan 98	10 Feb 98
Ramona E Hopkins	06 Oct 97	23 Dec 97
"" "" ""	05 Jan 98	10 Feb 98

Cynthia Horwitz	02 Oct 97	19 Feb 98
Wayne T Howard	01 Oct 97	17 Feb 98
David P Huber	08 Oct 97	20 Feb 98
Barbara L Huntington	06 Oct 97	17 Feb 98
John E Hurdelbrink (winter over)	16 Feb 98	
Matthew L Hurley (winter over)	02 Oct 97	
Christine M Hush	01 Oct 97	23 Feb 98
Michael F Hush	21 Aug 97	23 Feb 98
Janet M Iler (winter over)#	08 Oct 96	14 Oct 97
"" "" "" (winter over)	02 Feb 98	
Andrea L Isgro	17 Oct 97	10 Feb 98
David S Jirsa - Silverman	13 Nov 97	26 Nov 97
John Johannesen	08 Oct 97	10 Feb 98
James G Johnson	01 Oct 97	19 Feb 98
Marilyn G Johnson	08 Oct 97	10 Feb 98
Terry L Johnson	07 Jan 98	10 Feb 98
Michael A Johnston	31 Oct 97	29 Dec 97
Alana C Jones (winter over)#	02 Feb 97	02 Oct 97
"" "" "" (winter over)	02 Feb 98	
Scott B Jones	27 Aug 97	17 Feb 98
Brenda Joyce	01 Oct 97	10 Feb 98
Karen L Joyce	01 Oct 97	20 Feb 98
Eric D Juergens	16 Oct 97	09 Dec 97
Robert A Jungk	14 Dec 97	09 Feb 98
Nick S Kackloudis	11 Oct 97	20 Feb 98
Gregg Kaczmarczyk	06 Oct 97	
John B Kaditus	17 Oct 97	06 Dec 97
"" "" ""	09 Dec 97	21 Jan 98
Brian F Kaehler	22 Dec 97	17 Feb 98
Dean S Kamaka	02 Oct 97	14 Feb 98
Barbara Kaptanian (winter over)#	15 Feb 97	27 Aug 97
David Kasmer	21 Aug 97	23 Feb 98
Erika Kassop	16 Oct 97	23 Feb 98
Glen Kay	26 Oct 97	16 Jan 98

Kathryn A Kearns	14 Nov 97	19 Feb 98
Gabriel A Keifer	14 Oct 97	21 Dec 97
Jeanne M Kelley (winter over)	05 Oct 97	
Joel M Kelley (winter over)	14 Nov 97	
Dennis J Kenley, Jr. (winter over)	13 Nov 97	
Gill Kennedy (New Zealand)	31 Oct 97	31 Oct 97
Cheryl A Kepler	02 Oct 97	21 Jan 98
"" "" "" (winter over)	13 Feb 98	
Chandra L Kester	27 Aug 97	10 Feb 98
Karen L Ketchu	08 Oct 97	20 Feb 98
Kathleen M Keys	02 Oct 97	10 Feb 98
Richard D Kidwell	02 Oct 97	18 Feb 98
Heather Killen	11 Oct 97	17 Feb 98
Kevin Killilea	14 Oct 97	10 Feb 98
Darrell J Kimmes	06 Oct 97	17 Feb 98
Randy R Kimmes	27 Aug 97	12 Feb 98
Alison Klein (winter over)#	23 Jan 97	01 Oct 97
"" "" "" (winter over)	14 Feb 98	
Dean S Klein	25 Aug 97	07 Feb 98
Arthur J Knowlton	08 Nov 97	08 Nov 97
"" "" ""	01 Dec 97	10 Feb 98
William F Koletto, Jr.	13 Jan 98	17 Feb 98
Judith L Kopp	06 Oct 97	20 Feb 98
Noel V. Koppisch (winter over)	14 Feb 98	
Steven T Kottmeier	01 Oct 97	23 Dec 97
Michael R Krall	25 Aug 97	17 Feb 98
Sarah S Krall	02 Oct 97	10 Feb 98
Steven R. Kraemer	26 Jan 97	08 May 97
Charles W Kramer	25 Aug 97	19 Jan 98
Christopher Kugelman	17 Oct 97	20 Feb 98
Marin Kuizenga	14 Oct 97	17 Feb 98
Joseph T Kujawski	08 Nov 97	10 Feb 98
Bryan T Kunze	01 Oct 97	03 Jan 98
Dan R Kunze	05 Oct 97	21 Feb 98

Paul E Kyllonen	05 Oct 97	10 Feb 98
Curtis D La Bombard	27 Aug 97	17 Feb 98
Jeremy A Lake	06 Oct 97	26 Oct 97
Vincent G Langmann	01 Oct 97	26 Jan 98
Roy D Largent (winter over)#	01 Nov 96	01 Oct 97
William J Layman (winter over)#	21 Feb 97	14 Oct 97
"" "" ""	26 Oct 97	23 Feb 98
Jacqueline Learned (winter over)#	15 Feb 97	06 Oct 97
Thomas W Learned (winter over)#	15 Feb 97	26 Oct 97
"" "" ""	02 Feb 98	19 Feb 98
Susan Lee	16 Oct 97	19 Feb 98
Thomas D Lee (winter over)#	08 Oct 96	10 Feb 98
Thomas E Lefevre (winter over)	02 Oct 97	
Gregory S Lehman	14 Oct 97	17 Feb 98
Marie E Lehnerer	05 Jan 98	02 Feb 98
Jason Lemaster (winter over)#	28 Nov 96	02 Oct 97
"" "" "" (winter over)	10 Feb 98	
Carmen M Lemon	14 Oct 97	19 Feb 98
Ann E Leonard	16 Oct 97	19 Feb 98
Randy Leuthard (winter over)	16 Feb 98	
Christine M Levesque	06 Oct 97	10 Feb 98
Robert S Levinson	05 Oct 97	22 Nov 97
"" "" ""	02 Jan 98	17 Feb 98
Chad Lewis	08 Oct 97	26 Oct 97
Cynthia C Lewis	01 Oct 97	10 Feb 98
Jasen Lewis	27 Aug 97	13 Dec 97
Sharon M Lewis	08 Nov 97	20 Feb 98
Richard C Lichtenhan	20 Oct 97	19 Feb 98
Christopher D Liljenstolpe	17 Oct 97	23 Dec 97
"" "" "" (winter over)	17 Jan 98	
Andrea C Lillis	02 Oct 97	22 Nov 97
"" "" ""	05 Dec 97	16 Jan 98
Donald L Lillis	02 Oct 97	19 Jan 98
Peggy M Lind	08 Oct 97	21 Feb 98



Matthew R Lindell	02 Oct 97	17 Feb 98
Debra P Lisik (winter over)	06 Oct 97	
George Lisik (winter over)	06 Oct 97	
Dennis E Lofstrom (winter over)	12 Feb 98	
Paula Lofstrom (winter over)	12 Feb 98	
Michael E Lofton	05 Oct 97	17 Feb 98
Kirk A Loucks	06 Oct 97	12 Jan 98
"" "" "" (winter over)	25 Jan 98	
Jessica I Lovato	14 Oct 97	12 Feb 98
Robin L Lovato	02 Oct 97	10 Feb 98
Ann C Lowery	05 Oct 97	10 Feb 98
Kathryn C Loyd	06 Oct 97	16 Feb 98
Corando Lozano, Jr.	27 Aug 97	08 Nov 97
"" "" ""	01 Dec 97	21 Dec 97
Peter M Lund	14 Nov 97	12 Feb 98
Lee M Lunsford	08 Oct 97	19 Feb 98
Sally Lyon	16 Oct 97	17 Feb 98
Barbara F Macdaid	01 Dec 97	19 Feb 98
Wayne L Macdaid (winter over)#	08 Oct 96	06 Oct 97
Amy L Madden	27 Aug 97	19 Jan 98
"" "" "" (winter over)	25 Jan 98	
Thomas R Magness	21 Nov 97	23 Feb 98
Nicole R Majerus (winter over)	27 Aug 97	
Gregory J Majerus, Jr.	02 Oct 97	20 Feb 98
Larry C Male	25 Jan 98	17 Feb 98
Krystoffer C Mangold	25 Aug 97	09 Feb 98
Benjamin Mann (winter over)	27 Aug 97	
Jacy L Manzke	01 Oct 97	23 Feb 98
Peter A Marchetti	02 Oct 97	06 Feb 98
Thomas W Marhold	16 Oct 97	20 Feb 98
David W Marion (winter over)	16 Feb 98	
Patricia A Maroda	26 Oct 97	19 Feb 98
Martin V Marotte (winter over)#	14 Oct 96	01 Oct 97
"" "" ""	16 Oct 97	21 Feb 98

Christopher M Martin	26 Oct 97	19 Feb 98
Craig J Martin	08 Oct 97	22 Nov 97
"" "" ""	25 Jan 98	06 Feb 98
David E Martin	05 Oct 97	19 Feb 98
Luis M Martinez	08 Oct 97	01 Dec 97
Jeffrey J Matney (winter over)#	26 Jan 97	08 Nov 97
"" "" ""	01 Dec 97	19 Feb 98
James B Mc Adam (winter over)	31 Oct 97	
James H Mc Cabe	21 Aug 97	23 Feb 98
Martha A Mc Cabe	27 Aug 97	17 Feb 98
Nathan A Mc Cabe	02 Oct 97	20 Feb 98
Patricia C Mc Cairen (winter over)	28 Jan 98	
William J Mc Cormick	01 Oct 97	10 Feb 98
Joshua A Mc Coy (winter over)#	08 Oct 96	16 Oct 97
"" "" "" (winter over)	17 Jan 98	
John P Mc Cullough	06 Oct 97	20 Feb 98
David C Mc Donald (winter over)#	19 Feb 97	16 Oct 97
"" "" ""	31 Oct 97	26 Jan 98
Denton D Mc Glothlin	06 Oct 97	17 Feb 98
Patricia S Mc Glothlin	06 Oct 97	17 Feb 98
Thomas A Mc Guire	08 Oct 97	31 Jan 98
Jon J Mc Intyre (winter over)#	04 Feb 97	06 Oct 97
"" "" "" (winter over)	10 Feb 98	
Alonza B Mc Keel	11 Oct 97	20 Feb 98
Randall L Mc Kenney	08 Oct 97	21 Jan 98
Teresa M Mc Lain	16 Oct 97	18 Nov 97
Chris Mc Master (winter over)	25 Aug 97	
Susan R Mc Master	25 Aug 97	14 Jan 98
"" "" "" (winter over)	22 Jan 98	
Marlene Mc Lennan (New Zealand)	28 Oct 97	28 Oct 97
Joanne E Mc Mullen (winter over)	12 Feb 98	
Anna M Meade	11 Oct 97	07 Feb 98
Jerome C Meader	16 Oct 97	21 Feb 98
Jason A Medley	27 Aug 97	17 Feb 98

James E Meinert (winter over)#	02 Feb 97	08 Oct 97
"" "" ""	16 Oct 97	17 Feb 98
Mark B Melcon	27 Aug 97	19 Feb 98
Kerri M Melda	05 Oct 97	02 Feb 98
Terry L Melton	05 Jan 98	19 Feb 98
Steven A Meredith	31 Oct 97	16 Jan 98
Barry Michaelis (winter over)	23 Dec 97	
James G Mickelson	06 Oct 97	17 Feb 98
Anthony Middlebrooks	28 Oct 97	19 Feb 98
Steven L Mikel	06 Oct 97	09 Feb 98
Kendra C Milanette	27 Aug 97	20 Feb 98
Brian H Miller	25 Aug 97	10 Feb 98
Daniel R Miller (winter over)#	06 Feb 97	11 Oct 97
"" "" "" (winter over)	16 Feb 98	
Stephanie E Mills (winter over)	02 Oct 97	
Lee-Ann M Minifie (New Zealand)	30 Oct 97	30 Oct 97
David Minor (winter over)#	10 Oct 96	16 Oct 97
"" "" ""	02 Jan 98	20 Feb 98
Paul C Mitchell	05 Oct 97	23 Feb 98
Ronald L Mitchell (winter over)#	21 Feb 97	10 Feb 98
Larry Mjolsness (winter over)	10 Feb 98	
Jennifer C Moe	02 Oct 97	23 Feb 98
Kelly A Montgomery	02 Oct 97	13 Feb 98
Alan H Moore	16 Oct 97	30 Oct 97
Kevin Moore	01 Oct 97	16 Feb 98
Melvin J Moore (winter over)	27 Aug 97	
Jennifer D Moxon (winter over)#	10 Oct 96	10 Feb 98
Marian E Moyher	03 Nov 97	07 Feb 98
Robert D Mueller	27 Aug 97	12 Feb 98
Shaena M Muldoon	06 Oct 97	19 Feb 98
Deborah L Muller (winter over)#	17 Oct 96	26 Oct 97
"" "" "" (winter over)	17 Feb 98	
Craig E Mundell	11 Oct 97	19 Feb 98
Jay K Murphy (winter over)	25 Aug 97	

Laura S Murphy	06 Oct 97	21 Jan 98
Carole N Murray	20 Jan 98	28 Jan 98
Jonathan D Nagel	27 Aug 97	08 Nov 97
Jason E Nava	02 Oct 97	10 Feb 98
Suzanne E Navarro	01 Oct 97	20 Feb 98
Dawn M Needham	05 Oct 97	17 Feb 98
David A Neeley	06 Oct 97	20 Feb 98
Mark S Neeley	01 Oct 97	10 Feb 98
William J Nesbit	02 Oct 97	17 Feb 98
Gerald T Ness (winter over)#	02 Feb 97	01 Oct 97
"" "" "" (winter over)	02 Feb 98	
Darryl R Nichols (winter over)	27 Aug 97	
William A Nicholson	27 Aug 97	20 Feb 98
Living A Nightingale	25 Aug 97	23 Feb 98
David M Nold	25 Aug 97	28 Jan 98
Connie L Nottke	08 Oct 97	18 Feb 98
Mark A Novitsky	02 Oct 97	12 Feb 98
Matthew R Nowick	08 Nov 97	02 Jan 98
Gilbert D Nunez (winter over)#	27 Aug 96	08 Nov 97
"" "" ""	01 Dec 97	10 Feb 98
Albert W O'Kelly	28 Oct 97	15 Feb 98
Jodie M O'Kelly	28 Oct 97	15 Feb 98
Jennifer L Olsen	06 Oct 97	06 Feb 98
Jess L Olson	14 Oct 97	17 Feb 98
Denver J Osborne, Jr.	16 Oct 97	20 Feb 98
Richard L Owens, Jr.	21 Aug 97	23 Feb 98
Sheldon R Padilla	08 Oct 97	23 Feb 98
Robert H Palko (winter over)#	21 Feb 97	26 Oct 97
"" "" "" (winter over)	16 Feb 98	
Stephen J Pappa (winter over)#	12 Oct 96	02 Oct 97
Philip T Parfet	25 Aug 97	02 Feb 98
Andrew J Parkins	11 Oct 97	01 Dec 97
James C Parr (winter over)#	12 Oct 96	06 Oct 97
"" "" "" (winter over)	16 Feb 98	

Christi R Parrott	06 Oct 97	17 Feb 98
Jeanelle M Parrott	05 Oct 97	23 Feb 98
David P Parsons	25 Aug 97	01 Oct 97
Teddy O Patenaude	07 Jan 98	10 Feb 98
Jonathan M Penfield	22 Dec 97	23 Dec 97
Richard Perales	27 Aug 97	20 Feb 98
Scott E Perkins	16 Oct 97	10 Dec 97
Mark Aaron Perry	27 Aug 97	16 Feb 98
Mitchell Perry	21 Aug 97	03 Feb 98
"" "" "" (winter over)	16 Feb 98	
Neil Petersen	08 Oct 97	19 Feb 98
Wayne Peterson	06 Oct 97	12 Feb 98
Jeffrey K Peterzen	27 Aug 97	19 Feb 98
Rocklynn J Phillips	05 Oct 97	13 Feb 98
Scott N Phillips	20 Oct 97	18 Feb 98
Robert L Pickering	05 Oct 97	17 Feb 98
Garret J Piecek	20 Oct 97	20 Feb 98
Richard L Pierce (winter over)#	07 Oct 96	31 Oct 97
Richard P Pietrek (winter over)#	09 Feb 97	13 Nov 97
"" "" ""	01 Dec 97	02 Feb 98
Todd J Plochocki	20 Oct 97	03 Feb 98
Marc D Pomeroy	26 Oct 97	13 Feb 98
Verne J Pomraning	08 Oct 97	18 Feb 98
Russell A Poorman (winter over)#	18 Oct 96	11 Oct 97
"" "" ""	26 Oct 97	20 Feb 98
Efrain Porras	01 Oct 97	23 Feb 98
David L Porter (winter over)#	09 Feb 97	02 Oct 97
"" "" ""	26 Oct 97	13 Feb 98
Charlotte A Potter	27 Aug 97	09 Feb 98
William Poulson	05 Oct 97	19 Feb 98
Laura T Praderio	11 Oct 97	17 Feb 98
Lesia Prestridge	05 Oct 97	10 Feb 98
Barbara G Propst	27 Aug 97	17 Feb 98
Shelley C Prosis	16 Oct 97	20 Feb 98

Nathaniel M Pulsifer	05 Oct 97	03 Feb 98
Louisa E Quates	11 Oct 97	10 Dec 97
Thomas F Quinn, III	02 Oct 97	23 Feb 98
Robert P Radke	25 Aug 97	05 Dec 97
Jonathan D Rainbow	27 Aug 97	23 Feb 98
Ronald K Rainbow	08 Nov 97	10 Feb 98
James Raml	01 Oct 97	10 Feb 98
Dale I Randolph	27 Aug 97	19 Feb 98
Gary W Ratliff	16 Oct 97	20 Feb 98
Greg Raver	27 Aug 97	20 Feb 98
Wendy R Raver	27 Aug 97	20 Feb 98
Thomas Rebold	05 Oct 97	09 Feb 98
Robert Record (winter over)#	21 Feb 97	11 Oct 97
"" "" ""	26 Oct 97	10 Feb 98
Martin J Reed (winter over)	25 Aug 97	
Todd F Reeve	06 Oct 97	17 Feb 98
Marcy R Renn	08 Oct 97	23 Feb 98
Kevin C Reynolds	27 Aug 97	23 Feb 98
Lola M Rezin	27 Aug 97	21 Jan 98
Christopher M Rhone	13 Jan 98	02 Feb 98
Judy K Ritter	05 Dec 97	17 Feb 98
Kenneth G Rivera (winter over)#	12 Oct 96	05 Oct 97
Dylan S Roan	14 Oct 97	20 Feb 98
Terrance J Robb (New Zealand)	20 Oct 97	13 Nov 97
Michelle S Robbins	02 Oct 97	02 Feb 98
Robert G Robbins	21 Aug 97	02 Feb 98
William A Robertson	26 Oct 97	23 Feb 98
Rhonda K Rodriguez	02 Oct 97	17 Feb 98
Paul N Rogers (winter over)	25 Aug 97	
Peggy A Rogers (winter over)#	15 Feb 97	08 Oct 97
Rachel F Rogers	05 Oct 97	20 Feb 98
Roland F Romero	25 Aug 97	16 Jan 98
"" "" "" (winter over)	10 Feb 98	
Susan M Root	08 Oct 97	20 Feb 98

Philip T Roseboro	02 Oct 97	20 Feb 98
David Rosenthal (winter over)	25 Jan 98	
Clay A Rubano	05 Oct 97	09 Feb 98
Tia M Rudolph	25 Aug 97	12 Feb 98
Rolland J Rue (winter over)#	08 Oct 96	05 Oct 97
Jesse C Russell	06 Oct 97	20 Feb 98
Malcolm O Ruxton	27 Aug 97	02 Feb 98
George L Ryan (winter over)	11 Oct 97	
Gary Salo (winter over)#	11 Feb 97	05 Oct 97
Michelle M Salvador (winter over)#	12 Oct 96	06 Oct 97
Jackie T Samuel, Sr.	25 Jan 98	14 Feb 98
Christopher L Santopietro (winter over)#	12 Feb 97	06 Oct 97
Roy E Santos (winter over)	25 Aug 97	
Carol A Savage	28 Oct 97	28 Jan 98
"" "" "" (winter over)	14 Feb 98	
Berndt P Savig	01 Oct 97	25 Jan 98
"" "" "" (winter over)	19 Jan 98	
Michael A Scanlon	14 Dec 97	10 Feb 98
Christopher M Scavone (winter over)#	14 Oct 97	15 Feb 97
Valerie Schaffner (winter over)#	08 Oct 96	11 Oct 97
Jake Schas (winter over)#	30 Jan 97	14 Oct 97
"" "" ""	26 Oct 97	10 Feb 98
Liesl A Scherthanner	25 Aug 97	20 Feb 98
Monika J Scherthanner	27 Aug 97	17 Feb 98
Keith- Douglas Schmidt (winter over)#	16 Jan 97	20 Oct 97
"" "" "" (winter over)	17 Jan 98	
Alan B Schoenwald	25 Aug 97	17 Feb 98
Scott A Schumaker	16 Oct 97	21 Jan 98
Roberta A Score	21 Aug 97	10 Feb 98
Kristin L Scott	11 Oct 97	17 Feb 98
Craig Sears (winter over)#	21 Feb 97	06 Oct 97
Mark Sears	01 Oct 97	23 Feb 98
Tod R Sebens	14 Oct 97	02 Feb 98
Rich L Segler (winter over)#	15 Feb 97	06 Oct 97

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"" "" "" (winter over)	10 Feb 98	
Joseph P Seibert	08 Oct 97	03 Feb 98
Corky J Self (winter over)#	18 Feb 97	26 Oct 97
David L Selzler (winter over)#	15 Feb 97	11 Oct 97
Cory Shaddox (winter over)#	27 Aug 96	05 Oct 97
"" "" "" (winter over)	25 Jan 98	
Kenneth C Shaw	16 Oct 97	17 Feb 98
Timothy M Shea	05 Oct 97	06 Dec 97
Elizabeth D Sheid (winter over)#	15 Feb 97	14 Oct 97
"" "" "" (winter over)	14 Feb 98	
Robert W Sheid (winter over)#	15 Feb 97	11 Oct 97
"" "" "" (winter over)	14 Feb 98	
Michael G Shelton	20 Oct 97	19 Feb 98
Donald C Shepherd	05 Jan 98	03 Feb 98
Laura J Sherve (winter over)	05 Jan 98	
Dawn E Shields	08 Oct 97	19 Jan 98
"" "" "" (winter over)	10 Feb 98	
John W Shigo	02 Oct 97	23 Feb 98
Deborah A Shoop	05 Dec 97	23 Feb 98
Rebecca J Shoop	01 Oct 97	23 Feb 98
Thomas E Sibson	08 Oct 97	20 Feb 98
Annette G Sickler	16 Oct 97	20 Feb 98
Rosemary Siebenthaler	06 Oct 97	10 Feb 98
Neysa J Siedlecki (winter over)	25 Aug 97	
Christopher M Simmons (winter over)	08 Oct 97	
John D Simonson (winter over)#	19 Feb 97	05 Oct 97
"" "" ""	11 Oct 97	13 Feb 98
Rebecca A Simonson	05 Oct 97	19 Jan 98
"" "" "" (winter over)	28 Jan 98	
Lorraine Sims	03 Nov 97	20 Feb 98
Sandra K Singer	13 Nov 97	01 Dec 97
Stephen M Skicki	05 Oct 97	17 Feb 98
Michael L Slack	14 Oct 97	31 Jan 98



David M Smith (winter over)	27 Aug 97	
Glen A Smith	06 Oct 97	19 Jan 98
Ray Smith (New Zealand)	02 Oct 97	17 Feb 98
Scott F Smith (winter over)#	23 Oct 96	06 Oct 97
Kathleen H Soutter	02 Oct 97	12 Feb 98
Sharon R Spain	02 Oct 97	13 Feb 98
Judith C Spanberger	02 Oct 97	23 Feb 98
Barbara S Spector	14 Oct 97	07 Feb 98
Kirk E Spelman	05 Oct 97	20 Feb 98
Joshua J Spillane (winter over)	01 Oct 97	
Grace C Spivak	08 Oct 97	17 Feb 98
Donald M Squier	08 Oct 97	25 Jan 98
"" "" "" (winter over)	10 Feb 98	
Cynthia S Stebar (winter over)#	19 Jan 97	14 Oct 97
"" "" "" (winter over)	20 Jan 98	
Thomas Steinert (winter over)	16 Feb 98	
Dana L Stephens	08 Oct 97	23 Feb 98
Kenneth R Stephens	02 Oct 97	21 Feb 98
Joe Stermer	06 Oct 97	16 Jan 98
"" "" "" (winter over)	25 Jan 98	
David J Stevens (winter over)	27 Aug 97	
Patrick D Stevens (winter over)	22 Dec 97	
Caprice Stevenson	01 Oct 97	26 Jan 98
"" "" "" (winter over)	04 Feb 98	
David E Stillie	21 Aug 97	27 Aug 97
"" "" ""	01 Oct 97	12 Feb 98
Edward R Stockard	27 Aug 97	13 Dec 97
"" "" "" (winter over)	07 Jan 98	
Tara E Stohler	06 Oct 97	17 Feb 98
James A Stoll (winter over)#	09 Feb 97	30 Oct 97
"" "" ""	08 Nov 97	20 Feb 98
Alan J Stone (winter over)#	12 Jan 97	11 Oct 97
"" "" "" (winter over)	05 Jan 98	
Brian W Stone	26 Oct 97	31 Oct 97

Jenny L Stone	01 Oct 97	17 Feb 98
Patrick D Stone	06 Oct 97	16 Dec 97
Hope Stout	27 Aug 97	23 Feb 98
Shannon Stratman	26 Oct 97	10 Feb 98
Jason P Stubbe (winter over)#	15 Feb 97	01 Oct 97
"" "" ""	30 Oct 97	18 Feb 98
Holly K Stumpf (winter over)#	02 Oct 96	06 Oct 97
"" "" "" (winter over)	16 Feb 98	
Brent D Stuntzner	02 Oct 97	19 Feb 98
Brian C Sundberg	05 Oct 97	20 Feb 98
Duane Sundin (winter over)	10 Feb 98	
Kyle C Sundrup	02 Oct 97	17 Feb 98
Thomas J Swartz, Jr. (winter over)#	05 Dec 97	
Debbra Sweda	08 Oct 97	18 Feb 98
Eileen C Tams (winter over)#	10 Oct 96	14 Oct 97
Scott C Taube	25 Aug 97	10 Feb 98
William Taylor (winter over)	10 Feb 98	
Gary W Teetsell (winter over)#	11 Feb 97	06 Oct 97
"" "" "" (winter over)	10 Feb 98	
Suzanne I Tegen	02 Oct 97	20 Feb 98
Judith M Telfer	16 Oct 97	17 Feb 98
Sandra K Terry	14 Oct 97	10 Feb 98
Christopher M Teske (winter over)	06 Oct 97	
Leah A Thompson	06 Oct 97	20 Feb 98
John B Thompson, I X	08 Oct 97	20 Feb 98
Ross W Thorsen (winter over)#	10 Oct 96	01 Oct 97
"" "" ""	03 Nov 97	18 Feb 98
Paul E Thur	20 Oct 97	19 Feb 98
Julie J Tiedeman	14 Oct 97	17 Feb 98
Royale Tilley, Jr.	21 Aug 97	09 Dec 97
Molly E Tillotson	02 Oct 97	19 Feb 98
Paul A Tomasi	14 Oct 97	17 Dec 97
Daniel D Trimarco	17 Jan 98	29 Jan 98
David R Trujillo	25 Jan 98	09 Feb 98

Jonnette P Tuft	02 Oct 97	20 Feb 98
David J Turley	25 Aug 97	09 Feb 98
William J Turnbull	01 Oct 97	23 Feb 98
Julia M Uberuaga	05 Oct 97	20 Feb 98
Cherie J Ude	06 Oct 97	14 Jan 98
"" "" "" (winter over)	25 Jan 98	
Rod Vaage	14 Oct 97	20 Feb 98
Richard A Vaitonis (winter over)	06 Oct 97	
James V Van Matre (winter over)#	14 Oct 96	02 Oct 97
Kim V Vargo	21 Aug 97	10 Feb 98
Michael L Varney	25 Aug 97	17 Feb 98
Brandon Vernon	06 Oct 97	20 Feb 98
Thomas R Verville	25 Aug 97	20 Feb 98
Anne C Vick	05 Oct 97	10 Feb 98
Cindy E Vinson	16 Oct 97	16 Feb 98
Tom Vinson	01 Oct 97	02 Feb 98
"" "" "" (winter over)	06 Feb 98	
Judy M Wagner	27 Aug 97	17 Feb 98
Bonnie S Walker	14 Oct 97	26 Jan 98
"" "" "" (winter over)	02 Feb 98	
Christopher Walker	08 Oct 97	24 Jan 98
Christopher J Walton	02 Oct 97	21 Jan 98
"" "" "" (winter over)	12 Feb 98	
James H Ward	20 Oct 97	10 Feb 98
Jeffrey J Ware (winter over)#	18 Feb 97	01 Oct 97
Jeanine F Watkins	25 Aug 97	20 Feb 98
Elizabeth J Watson	16 Oct 97	23 Feb 98
Terri L Watson	02 Oct 97	10 Feb 98
Christopher Weaver	16 Oct 97	13 Dec 97
Dave A Weber	25 Aug 97	02 Feb 98
"" "" "" (winter over)	12 Feb 98	
Martin J Weiner (winter over)	05 Oct 97	11 Oct 97
Randy W Weinmeister	08 Oct 97	20 Feb 98
Michael J Wekenborg	02 Oct 97	12 Jan 98

"" "" "" (winter over)	04 Feb 98	
Karen Welter	27 Aug 97	13 Nov 97
Anita J Werner	26 Oct 97	16 Feb 98
David L Werner	09 Feb 97	03 Feb 98
John V West	05 Oct 97	14 Oct 97
Monty Westphal	22 Dec 97	17 Feb 98
Diane Wetterlin	11 Oct 97	08 Jan 98
Brian P Whalen	17 Oct 97	10 Feb 98
Brian P Wheeler	21 Aug 97	23 Feb 98
Susan L Wheeler	06 Oct 97	19 Feb 98
John B White	27 Aug 97	19 Feb 98
Lawrence E White (winter over)#	11 Feb 97	19 Feb 98
Steven C White	02 Jan 98	19 Feb 98
David L Whitmore	01 Oct 97	23 Feb 98
Christopher T Williams (winter over)#	10 Oct 96	26 Oct 97
"" "" "" (winter over)	10 Feb 98	
Lisa A Williams	22 Dec 97	20 Feb 98
William C Williams (winter over)	10 Feb 98	
Garvis P Williams, Jr.	07 Jan 98	26 Jan 98
Brett H Wilson	01 Oct 97	23 Feb 98
Christopher T Wilt (winter over)	17 Jan 98	
Stephen D Wing (winter over)#	17 Oct 96	06 Oct 97
Gary C Winslow	26 Oct 97	16 Dec 97
Stanley P Wisneski, III	01 Oct 97	09 Feb 98
Franklin Withrow, III	26 Oct 97	20 Feb 98
Kimberly R Wolfe	06 Oct 97	17 Feb 98
Alan B Wood (winter over)#	02 Feb 97	08 Oct 97
"" "" "" (winter over)	16 Feb 98	
Keith M Wood	08 Oct 97	16 Feb 98
Debra Woods	06 Oct 97	20 Feb 98
Terrence L Woods	06 Oct 97	20 Feb 98
Forrest H Wooldridge	05 Oct 97	03 Feb 98
Andrew L Wright	01 Dec 97	03 Jan 98
Kelly A Wyatt	17 Oct 97	21 Jan 98

James L Yeatrakas	02 Jan 98	31 Jan 98
Kathy A Young	02 Oct 97	20 Feb 98
Ralph A Young	05 Oct 97	20 Feb 98
Marilyn J Younger	05 Oct 97	28 Jan 98
"" "" "" (winter over)	02 Feb 98	
David A Zastrow	17 Oct 97	10 Feb 98
Tanya L Zastrow	17 Oct 97	10 Feb 98
Steven R Zebroski	16 Oct 97	19 Feb 98
Jeffrey K Zellerhoff	01 Oct 97	12 Feb 98
Robert E Zimmerman	16 Oct 97	17 Feb 98
Robert B Zook	05 Oct 97	10 Feb 98

### **South Pole Station**

#### **Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
Michele E. Alderton	26 Oct 97	19 Feb 98
Robert H. Allard	28 Oct 97	17 Feb 98
James D. Anderson	26 Oct 97	18 Feb 98
Colette Astorgue	28 Oct 97	17 Feb 98
Sally B. Ayotte	26 Oct 97	19 Feb 98
Tommy G. Barker (winter over)	26 Oct 97	
Bruce M. Baudean	05 Oct 97	01 Dec 97
Sheridan O. Becker	13 Nov 97	17 Feb 98
Wendy R. Beeler	30 Oct 97	14 Feb 98
David L. Benson	28 Oct 97	17 Feb 98
Edward T. Blain	26 Oct 97	21 Jan 98
John F. Booth (winter over)	26 Oct 97	
Carol A. Braun	06 Oct 97	18 Feb 98
Jo Anne Broderick	28 Oct 97	17 Feb 98
Laura V. Campbell (winter over)	26 Oct 97	
Robert D. Carlson (winter over)	14 Oct 97	
Vickie J. Carson	25 Jan 98	13 Feb 98
Christopher L. Cleavelin	08 Nov 96	14 Nov 97
Lawrence L. Cleavelin (winter over)#	23 Oct 96	13 Nov 97

*National Science Foundation*

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*Arlington, Virginia 22230*

*November 30, 1998*

Sandra R. Collins (winter over)#	20 Nov 96	14 Nov 97
Neil R. Conant, Jr.	13 Nov 97	17 Feb 98
Jon A. Conrad	26 Oct 97	
John H. Corbin	05 Oct 97	17 Feb 98
Michael R. Courtemanche (winter over)#	23 Oct 96	13 Nov 97
Hugh B. Cowan (winter over)#	23 Oct 96	13 Nov 97
Warren J. Crane	16 Oct 97	19 Feb 98
Carol D. Crossland	26 Oct 97	12 Jan 98
"" "" "" (winter over)	22 Jan 98	
Caer A. Daly	13 Nov 97	19 Feb 98
Richard K. Denholm	20 Oct 97	18 Feb 98
Dennis W. Diggs	06 Oct 97	26 Jan 98
Alton G. Dunn I I I (winter over)#	23 Oct 96	13 Nov 97
Ann Marie Duquette	28 Oct 97	16 Feb 98
Brian R. Ellspermann (winter over)#	23 Oct 96	18 Feb 98
Elisabeth D. Fano (winter over)	26 Oct 97	
Norman R. Feck	28 Oct 97	17 Feb 98
David E. Fischer	26 Oct 97	18 Feb 98
David R. Franco (winter over)	26 Oct 97	
Robert Frederick (winter over)#	23 Oct 96	13 Nov 97
Bettie K. Grant	26 Oct 97	19 Feb 98
Drew D. Hampton (winter over)#	23 Oct 96	01 Dec 97
Ethan A. Hardy	05 Oct 97	16 Feb 98
John Harty	05 Oct 97	17 Feb 98
Becky Heydemann	03 Nov 97	17 Feb 98
Noreen E. Hogan	03 Nov 97	16 Feb 98
Shawndra E. Holmberg (winter over)#	23 Oct 96	14 Nov 97
Mary Holozubiec	03 Nov 97	18 Nov 97
Gerald M. Horning	05 Oct 97	16 Feb 98
Thomas D. Hutchings	16 Oct 97	31 Dec 97
Bret A. James	02 Oct 97	19 Feb 98
Eivind B. Jensen	25 Jan 98	12 Feb 98
Katharine Jensen (winter over)	26 Oct 97	
Rodney A. Jensen (winter over)	06 Oct 97	

William A. Johnson	28 Oct 97	18 Feb 98
David Kane	28 Oct 97	17 Feb 98
Ellen M. Kiyler	03 Nov 97	20 Feb 98
Clayton Kleffman	28 Oct 97	16 Feb 98
David A. Koester (winter over)#	09 Jan 97	18 Nov 97
Scott G. Konu	06 Oct 97	17 Feb 98
Noel V. Koppisch	28 Oct 97	07 Feb 98
Dawn M. La Prete (winter over)#	23 Oct 96	21 Jan 98
Leroy Lancaster	28 Oct 97	17 Feb 98
David J. Landstrom	26 Oct 97	18 Feb 98
Mary E. Lenox (winter over)	26 Oct 97	
Joseph K. Lester	26 Oct 97	20 Feb 98
Martin E. Lewis	26 Oct 97	18 Feb 98
Kenneth Lobe (winter over)#	23 Oct 96	18 Feb 98
Liza C. Lobe (winter over)#	23 Oct 96	18 Feb 98
Andrew D. Logan (winter over)	26 Oct 97	
Diana J. Logan (winter over)	26 Oct 97	
Susan Long	26 Oct 97	19 Jan 98
"" "" ""	25 Jan 98	17 Feb 98
Paul F. Lux (winter over)	26 Oct 97	
Mike Manning	28 Oct 97	16 Feb 98
Timothy F. Marquardt	16 Oct 97	26 Nov 97
Craig A. Massey (winter over)	26 Oct 97	
Darren Mauk	28 Oct 97	17 Feb 98
Jonathan A. Mc Calip	28 Oct 97	29 Dec 97
Donald L. Mc Creight (winter over)#	23 Oct 96	18 Nov 97
Frederick D. Mc Dougall	28 Oct 97	17 Feb 98
Jesse L. Mc Gill	02 Jan 98	18 Feb 98
Andrew M. Mc Mahon	27 Aug 97	21 Jan 98
Joanne E. Mc Mullen	28 Oct 97	03 Feb 98
Ed Mc Naughton	28 Oct 97	26 Nov 97
Jessica A. Medlin	28 Oct 97	06 Feb 98
Thomas A. Meuwissen	05 Oct 97	18 Nov 97
William H. Miller	05 Dec 97	21 Dec 97

Kenneth M. Navarro	01 Oct 97	17 Feb 98
Jason S. Neely	05 Oct 97	19 Feb 98
Donald H. Neff	26 Oct 97	17 Feb 98
Erica L. Nelson	28 Oct 97	20 Feb 98
Charles A. Newhouse	16 Oct 97	16 Feb 98
Randall H. Noring	14 Oct 97	17 Feb 98
Barbara R. O'Brien	26 Oct 97	17 Feb 98
Eric W. Palmer	26 Oct 97	17 Feb 98
James Pederson	13 Nov 97	17 Feb 98
Traci L. Perdue	20 Oct 97	19 Feb 98
Thomas E. Piwowarski	03 Nov 97	17 Feb 98
Christopher P. Reddin	02 Jan 98	19 Feb 98
Suzanne E. Reddy	26 Oct 97	17 Feb 98
John A. Richard	28 Oct 97	17 Feb 98
Eric Riley (winter over)	21 Jan 98	
Christopher G. Rock	01 Dec 97	19 Feb 98
Nan K. Rogers	05 Oct 97	17 Feb 98
Jeffrey P. Ryan (winter over)	01 Dec 97	
Jeffrey C. Scanniello	21 Aug 97	23 Feb 98
Heidi E. Scherthanner	28 Oct 97	19 Feb 98
William J. Silva (winter over)	26 Oct 97	
James F. Slaughter	21 Nov 97	19 Feb 98
Jeffrey A. Smith (winter over)#	23 Oct 96	13 Nov 97
Scott F. Smith	03 Nov 97	13 Feb 98
Kurt Sobanja	26 Oct 97	19 Feb 98
Charles G. Speidel	05 Oct 97	17 Feb 98
Paul J. Sullivan (winter over)#	21 Oct 96	14 Nov 97
Stacie M. Tanner	28 Oct 97	19 Feb 98
Tom Tatley (winter over)#	23 Oct 96	13 Nov 97
Laurell A. Toeppen	05 Oct 97	29 Jan 98
Mike Trbojevich	05 Oct 97	10 Dec 97
Kevin Van Treeck	28 Oct 97	17 Feb 98
Thomas E. Vernon	06 Oct 97	20 Feb 98
Carlton R. Walker	08 Oct 97	18 Feb 98



Paula F. Walker	26 Oct 97	18 Feb 98
Donald F. Warrick	28 Oct 97	10 Feb 98
Stephen West	05 Oct 97	17 Feb 98
Matthew W. Wolf (winter over)#	23 Oct 96	13 Nov 97
James H. Woods	28 Oct 97	18 Feb 98
Michael J. Yee	28 Oct 97	17 Feb 98
David G. Zybowski (winter over)	26 Oct 97	

### **Palmer Station**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
Joseph Abood	16 Sep 97	09 Jan 98
William Arens	16 Sep 97	
Ronnie Baltz (winter over) #	27 Feb 97	03 Oct 97
"" "" (winter over)	29 Mar 98	
Mark Begnaud	24 Apr 97	03 Oct 97
Dave Bell	31 Aug 96	18 Apr 97
David Benson	29 Mar 98	
Sheldon Blackman	26 Sep 96	06 Apr 97
"" ""	29 Sep 97	
Kevin Bliss	09 Apr 97	
John Booth	31 May 96	07 May 97
Brien Borden	16 Sep 97	20 Sep 97
Neijla Bouziane	31 Mar 97	07 May 97
Ralph Bovard	31 Aug 96	21 Apr 97
Kim Bracchi	28 Feb 98	
Harry Braun	29 Mar 98	
Daniel Bronk	31 Mar 97	28 Nov 97
Walter Brown	16 Sep 97	03 Oct 97
Stephen M. Brownell	08 Nov 96	23 Dec 96
Tyler Burton	16 Sep 97	03 Oct 97
Robert Carlson	28 Feb 96	07 May 97
Joy Culbertson	16 Sep 97	
Tim Cully	20 Dec 96	06 Apr 97

Kenneth Davis	29 Mar 98	
Sharon Delsack	08 Nov 96	06 Apr 97
Alice Doyle	08 Nov 96	06 Apr 97
David Doyle	01 Mar 97	21 Apr 97
"" "" ""	27 Feb 97	07 May 97
"" "" ""	25 Jan 98	17 Feb 98
Rob Edwards	16 Sep 97	22 Mar 98
Donald Ellis	26 Sep 96	21 Apr 97
Robert Farrell	16 Sep 97	
Don Ferris	16 Sep 97	03 Oct 97
J. B. Freeman	08 Nov 96	07 May 97
Thomas Galles	16 Sep 97	
Jaime Gallo (winter over)#	31 Mar 97	03 Oct 97
Bradley Gore	31 Aug 96	21 Apr 97
Carol Gould	18 Aug 96	06 Apr 97
Lucille Graham	16 Sep 97	
Glenn Grant	29 Mar 98	
Beth Haymond	27 Apr 97	03 Oct 97
John Haywood	11 Nov 97	
Pam Hill (winter over)#	09 Apr 97	03 Oct 97
Janet Huddleston	16 Sep 97	19 Mar 98
Gloria Hutchings	09 Apr 97	07 May 97
Dean Klein (winter over)	29 Mar 98	
Mary Lenox	28 Feb 96	07 May 97
James Litch	29 Sep 97	
Andrew Logan	31 Aug 96	21 Apr 97
Peter Lund (winter over)#	09 Apr 97	03 Oct 97
Robert Lutes (winter over)#	09 Apr 97	03 Oct 97
Gerald McCarty	16 Sep 97	
David McDonald	29 Mar 98	
Steven Mikel	29 Mar 98	
David Moore	16 Sep 97	
Marian E. Moyher	16 Sep 97	03 Oct 97
Ken M. Navarro	18 Aug 96	06 Apr 97

Steven Navarro	16 Sep 97	
William Nesbit	29 Mar 98	
William A. Nicholson	31 Aug 96	07 May 97
Carl Norris	29 Mar 98	
Ron Nugent	16 Sep 97	
Albert W. O'Kelly	27 Apr 97	20 Sep 97
Cynthia Papasavas	09 Apr 97	03 Oct 97
Peter Parker	09 Apr 97	21 Apr 97
Eric R. Pohlman	16 Sep 97	
Marc D. Pomeroy (winter over)#	31 Mar 97	20 Sep 97
John Powell	29 Sep 97	
Laura Praderio	29 Mar 98	
Chris Riley	27 Apr 97	03 Oct 97
Mark Rosen	31 Aug 96	07 May 97
"" ""	16 Sep 97	
Elizabeth Rucker	31 Mar 97	03 Oct 97
Richard A. Sanchez	20 Dec 96	27 Jan 97
Monika Schernthanner (winter over)	29 Mar 98	
Craig D. Seeman	31 Aug 96	27 Sep 97
Mark Sears	29 Mar 98	
Michael Shelton	27 Apr 97	07 May 97
Randolph D. Sliester	31 Aug 96	02 May 97
Randolph Sliester	16 Sep 97	
Anne Udry	16 Sep 97	
David A. Vella	19 Jun 96	20 Sep 97
Diane Wetterlin	28 Feb 98	
Garvis P. Williams	29 Sep 97	03 Oct 97
Daniel A. Weinstein	31 Aug 96	04 Apr 97

**R/V LAURENCE M. GOULD**

**Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
Morris Bouzigard Jr. (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98

"" "" ""	29 Mar 98	
Delio De La Cruz (Phillipines) (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Alice Doyle	25 Jan 98	17 Feb 98
Luke Emery	25 Jan 98	17 Feb 98
Alan Hickey	29 Mar 98	
Rhonda Kelly	25 Jan 98	17 Feb 98
Henry Kennedy	25 Jan 98	17 Feb 98
Gregory Kent-Smith	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Robert Kluckhohn	28 Feb 98	19 Mar 98
Guy Leblanc	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Arsenio Majomot (Phillipines) (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Chris Masters	28 Feb 98	19 Mar 98
"" ""	29 Mar 98	
Stephen Miller	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Michael Murphy	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Fernando Naranga (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" ""	28 Feb 98	19 Mar 98
"" ""	29 Mar 98	
Kevin O'Brien (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
Gary Osborn	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	

John-Mark Pelayo (Phillipines) (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Efren Prado (Phillipines) (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Trent Sanamo (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Warren Sanamo (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
John-Martin Souza (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 09	
Mark Talkovic	25 Jan 98	17 Feb 98
Robert Verret (Edison Chouest Offshore)	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Paul Waters	25 Jan 98	17 Feb 98
"" "" ""	28 Feb 98	19 Mar 98
"" "" ""	29 Mar 98	
Brian Williams	25 Jan 98	17 Feb 98

**R/V NATHANIEL B. PALMER**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
Bienvenido Aaron (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
Jay Alan	16 Jan 98	20 Feb 98

Marta Parra Alarcon (Chile) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
Jon Alberts		16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Jonathan C Alberts	06 Nov 96	16 Feb 98
Enrique Alvezdo (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Rogelio Ambrocio (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""		16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Bernard R Archer	09 Nov 97	23 Dec 97
Herbert L Baker	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	14 Dec 97	14 Jan 98
Tom Baker (Edison Chouest Offshore)	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Janet M Barnes	09 Nov 97	23 Dec 97
Timothy D Bjokne	11 Jan 98	20 Feb 98
Joe Borkowski (Edison Chouest Offshore)	29 Jul 97	21 Aug 97

"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Christie Campbell	16 Jan 98	20 Feb 98
Ronnie Carpio (Edison Chouest Offshore)	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Lee Crowe (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Juan Pedro Cuevas (Edison Chouest Offshore)	29 Sep 97	03 Oct 97
Fredor De La Cruz (Phillipines) (Edison Chouest Offshore)]	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Jesse Doren	13 Jan 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Troy Endicott (Edison Chouest Offshore)	09 Nov 97	
Lauro Garde (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Nora Guzman (Chile) (Edison Chouest Offshore)	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98

Alan W Hickey	29 Sep 97	03 Oct 97
"" "" ""	14 Dec 97	12 Feb 98
James S Holik	11 Jan 98	20 Feb 98
Eddie Holt (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
Paul G Huckins	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Melissa Iszard-Crowley	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Richard Iszard-Crowley	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	14 Dec 97	16 Jan 98
Robert B Kane	11 Jan 98	20 Feb 98
Mindy Kayl	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
Mindy Kayl	16 Mar 98	18 Mar 98
Mindy A Kayl	23 Dec 97	19 Feb 98
Paul Kelley	09 Nov 97	22 Dec 97
Rhonda Kelly	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Robert S Kluckhohn	14 Dec 97	16 Jan 98
Randy Ledet (Edison Chouest Offshore)	16 Sep 97	20 Sep 97
David C Leger	13 Jan 98	21 Feb 98
Yon Lew	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Kim McGuire (Edison Chouest Offshore)	29 Sep 97	03 Oct 97
Olivia Monje Miranda (Chile) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97



"" "" ""	29 Sep 97	03 Oct 97
David Monroe (Edison Chouest Offshore)	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	
David B Morehouse	16 Feb 98	23 Feb 98
Lewis Murray (Edison Chouest Offshore)	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Fernando Naraga (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Silverio Nestor (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Paul Olsgaard	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
"" "" ""	21 Dec 97	19 Feb 98
Gary Osborn	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Rogelio Pagdanganan (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Corey Peterson	09 Nov 97	
Jay Phillips (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Johnny Pierce (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97

"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Marc Pomeroy		16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Marc D Pomeroy	20 Feb 98	
Vladimir Repin (Russia) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	
Eric Ritter	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Rolly Rogando (Edison Chouest Offshore)	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Warren Sanamo (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Ernest Stelly (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Mark Talkovic	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
Ric Tamoyo (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Morris Tavlin	29 Sep 97	03 Oct 97

"" ""	09 Nov 97	
Robert Verret (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
Sam Villanueva (Phillipines) (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Michael Watson (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	
Richard Wisner (Edison Chouest Offshore)		16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
James Woods	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	19 Feb 98	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98
Mike Wright (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	
Bryan Zipperer (Edison Chouest Offshore)	29 Jul 97	21 Aug 97
"" "" ""	25 Aug 97	06 Sep 97
"" "" ""	16 Sep 97	20 Sep 97
"" "" ""	29 Sep 97	03 Oct 97
"" "" ""	09 Nov 97	16 Mar 98
"" "" ""	16 Mar 98	18 Mar 98

**R/V POLAR DUKE**

	<b>Dates in Antarctica</b>	
	<b><u>Arrived</u></b>	<b><u>Departed</u></b>
Janet Barnes	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
Lisa Beal	01 Mar 97	10 Mar 97
"" "" ""	12 Mar 97	17 Mar 97
Sigvald Brandal (Norway)(Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Iglesias Demetrio (Chile) (Rieber Shipping A/S)		07 May 97
Alan Hickey		07 May 97
Nan Jensen (Norway) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
John Kristiansen (Norway) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Frank Lockert (Norway) (Rieber Shipping A/S)		07 May 97
Javier Mario (Rieber Shipping A/S)		07 May 97
Oystein Nergaard (Norway) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Gary Osborn	31 Mar 97	06 Apr 97
"" "" ""		07 May 97
"" "" ""	09 Apr 97	21 Apr 97
Iglesias Prieto (Chile) (Rieber Shipping A/S)	01 Mar 97	10 Mar 97
"" "" ""	12 Mar 97	17 Mar 97
"" "" ""	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Eric Ritter	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Patricio Savador (Chile) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97

Martinich Santiago (Norway) (Rieber Shipping A/S)		07 May 97
Angel Valle (Chile) (Rieber Shipping A/S)	09 Apr 97	21 Apr 97
Varas Valle (Chile) (Rieber Shipping A/S)		07 May 97
Gallardo Velquen (Chile) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Guillermo Angel (Chile) (Rieber Shipping A/S)		07 May 97
Tor Ole Jenssen (Norway) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Eduardo Johnston (Norway) (Rieber Shipping A/S)	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Anders Langfors (Norway) (Rieber Shipping A/S)	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Henry Saeth (Norway) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Roger Sandvik (Norway) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Jostein Viddal (Norway) (Rieber Shipping A/S)	31 Mar 97	06 Apr 97
"" "" ""	09 Apr 97	21 Apr 97
"" "" ""		07 May 97
Brian Williams	01 Mar 97	10 Mar 97
"" "" ""	12 Mar 97	17 Mar 98

**R/V ABEL-J**

**Dates in Antarctica**

	<u>Arrived</u>	<u>Departed</u>
Steven Bingham	05 Jan 98	09 Jan 98
"" "" ""	16 Jan 98	
Christie Campbell	17 Nov 97	19 Nov 97
John Evans	10 Dec 97	30 Dec 97
Richard Farrell	17 Nov 97	19 Nov 97

Lynn Mackesson	17 Nov 97	19 Nov 97
"" "" ""	10 Dec 97	30 Dec 97
Dave McWilliams	05 Jan 98	09 Jan 98
Gary Osborn	17 Nov 97	19 Nov 97
"" "" ""	10 Dec 97	30 Dec 97
Aubrey C. Riley	05 Jan 98	
Harry Ruggles	05 Jan 98	09 Jan 98
"" "" ""	16 Jan 98	
Jeffery Stone	17 Nov 97	19 Nov 97
"" "" ""	10 Dec 97	30 Dec 97
Philip Thorson	10 Dec 97	
Graham Towers (Great Britain)	05 Jan 98	09 Jan 98
"" "" ""	16 Jan 98	
"" "" ""	10 Dec 97	30 Dec 97
Robert Wallace	10 Dec 97	30 Dec 97
"" "" ""	05 Jan 98	09 Jan 98
"" "" ""	16 Jan 98	
Hayley Winfield (Great Britain)	17 Nov 97	19 Nov 97
"" "" ""	10 Dec 97	30 Dec 97
"" "" ""	05 Jan 98	09 Jan 98
"" "" ""	16 Jan 98	

## **Attachment B, Kill/Cap Forms**

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*Attachment B presents the Species Killed/Captured forms submitted  
by researchers permitted to take animal specimens in Antarctica.*

# ANTARCTIC TREATY AREA

## ANNUAL RETURN OF SPECIES KILLED OR CAPTURED (JULY 1997 to JUNE 1998)

BY David G. Ainley H. T. Harvey & Associates, Ecological Consultants  
Name Institution

LOCALITY Cape Bird, Ross Island LAT. 77°10'S LONG. 166°41'E  
Cape Crozier, Ross Island 77°31'S 169°24'E  
Cape Royds, Ross Island 77°33'S 166°09'E

SPECIES	SEX	AGE	NUMBER KILLED FOR			NUMBER CAPTURED AND REMOVED FOR		NUMBER CAPTURED AND RELEASED IN SAME AREA
			Food	Scientific Purposes	Museums etc.	Scientific Purposes	Zoos, etc	
<i>Adelie penguin (Pygoscelis adeliae)</i>	M/F	A						90
	U	C						3,000

M-Male    A-Adult  
 F-Female    J-Juvenile  
 U-Unknown    C-Chicks  
 E-Eggs    M-Mummified



# ANTARCTIC TREATY AREA

## ANNUAL RETURN OF SPECIES KILLED OR CAPTURED (JULY 1997 to JUNE 1998)

BY Randell W. Davis Texas A & M University  
Name Institution

LOCALITY McMurdo Sound LAT. \_\_\_\_\_ LONG. \_\_\_\_\_

SPECIES	SEX	AGE	NUMBER KILLED FOR			NUMBER CAPTURED AND REMOVED FOR		NUMBER CAPTURED AND RELEASED IN SAME AREA
			Food	Scientific Purposes	Museums etc.	Scientific Purposes	Zoos, etc	
Weddell Seals ( <i>Leptonychotes weddellii</i> )	M	A						3
	F	A						4

M-Male    A-Adult  
 F-Female    J-Juvenile  
 U-Unknown    C-Chicks  
 E-Eggs    M-Mummified

# ANTARCTIC TREATY AREA

## ANNUAL RETURN OF SPECIES KILLED OR CAPTURED (JULY 1997 to JUNE 1998)

BY Rennie S. Holt Southwest Fisheries Science Center, NMFS  
Name Institution

LOCALITY Cape Shirreff, Livingston Island LAT. 62°27'S LONG. 60°46'W

SPECIES	SEX	AGE	NUMBER KILLED FOR			NUMBER CAPTURED AND REMOVED FOR		NUMBER CAPTURED AND RELEASED IN SAME AREA
			Food	Scientific Purposes	Museums etc.	Scientific Purposes	Zoos, etc	
Chinstrap penguin ( <i>Pygoscelis antarctica</i> )	M/F	C						1,425
	M/F	A						98
Brown Skua ( <i>Catharacta lönnbergi</i> )	M/F	C						18
	M/F	A						25

M-Male      A-Adult  
 F-Female    J-Juvenile  
 U-Unknown   C-Chicks  
 E-Eggs      M-Mummified

# ANTARCTIC TREATY AREA

## ANNUAL RETURN OF SPECIES KILLED OR CAPTURED (JULY 1997 to JUNE 1998)

BY Gary Miller University of New Mexico  
Name Institution

LOCALITY Antarctic Peninsula Area LAT. \_\_\_\_\_ LONG. \_\_\_\_\_

SPECIES	SEX	AGE	NUMBER KILLED FOR			NUMBER CAPTURED AND REMOVED FOR		NUMBER CAPTURED AND RELEASED IN SAME AREA
			Food	Scientific Purposes	Museums etc.	Scientific Purposes	Zoos, etc	
Chinstrap penguin ( <i>Pygoscelis antarctica</i> )	M/F	A						13
Adelie penguin ( <i>Pygoscelis adeliae</i> )	M/F	A						45
Gentoo penguin ( <i>Pygoscelis papua</i> )	M/F	A						13

M-Male    A-Adult  
 F-Female    J-Juvenile  
 U-Unknown    C-Chicks  
 E-Eggs    M-Mummified

# ANTARCTIC TREATY AREA

## ANNUAL RETURN OF SPECIES KILLED OR CAPTURED (JULY 1997 to JUNE 1998)

BY Wayne Z. Trivelpiece Montana State University  
Name Institution

LOCALITY King George Island, Antarctica LAT. 62°10'S LONG. 58°30'W

SPECIES	SEX	AGE	NUMBER KILLED FOR			NUMBER CAPTURED AND REMOVED FOR		NUMBER CAPTURED AND RELEASED IN SAME AREA
			Food	Scientific Purposes	Museums etc.	Scientific Purposes	Zoos, etc	
Adelie Penguin ( <i>Pygoscelis adeliae</i> )	M	A						226
	F	A						177
	U	J						1,000
Gentoo Penguin ( <i>Pygoscelis papua</i> )	M	A						97
	F	A						100
	U	J						1,000
Chinstrap Penguin ( <i>Pygoscelis antarctica</i> )	M	A						94
	F	A						94
	U	J						106
Brown Skua ( <i>Catharacta lonnbergii</i> )	M	A						3
	F	A						9
	U	J						53
South Polar Skua ( <i>Catharacta maccormicki</i> )	M	A						5
	F	A						10
	U	J						72
Sheathbill ( <i>Chionis alba</i> )	U	J						2
Giant Petrel	U	J					131	
Cape Petrel	U	J					49	

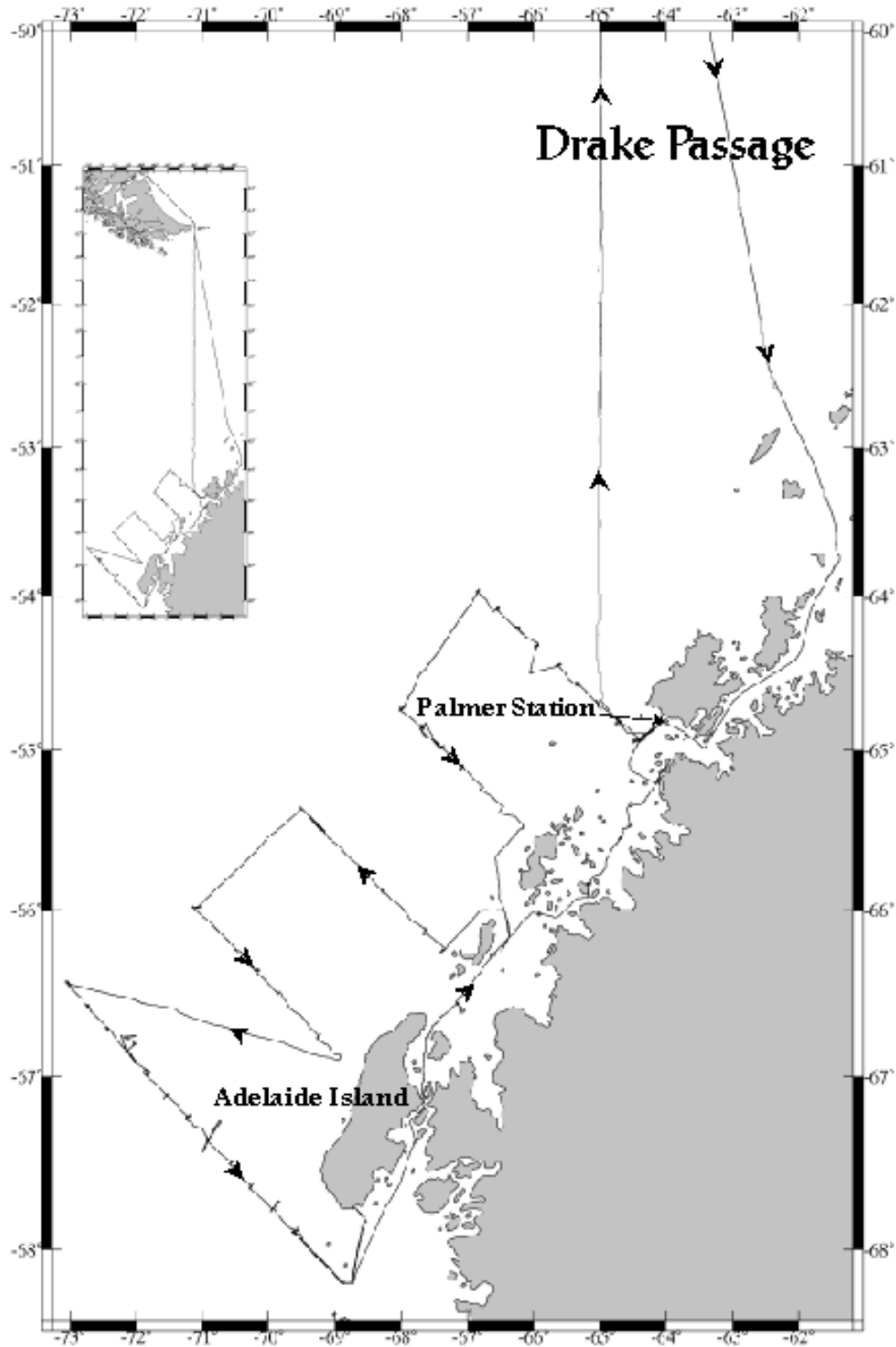
M-Male    A-Adult  
 F-Female    J-Juvenile  
 U-Unknown    C-Chicks  
 E-Eggs    M-Mummified

## **Attachment C, Vessel Tracks**

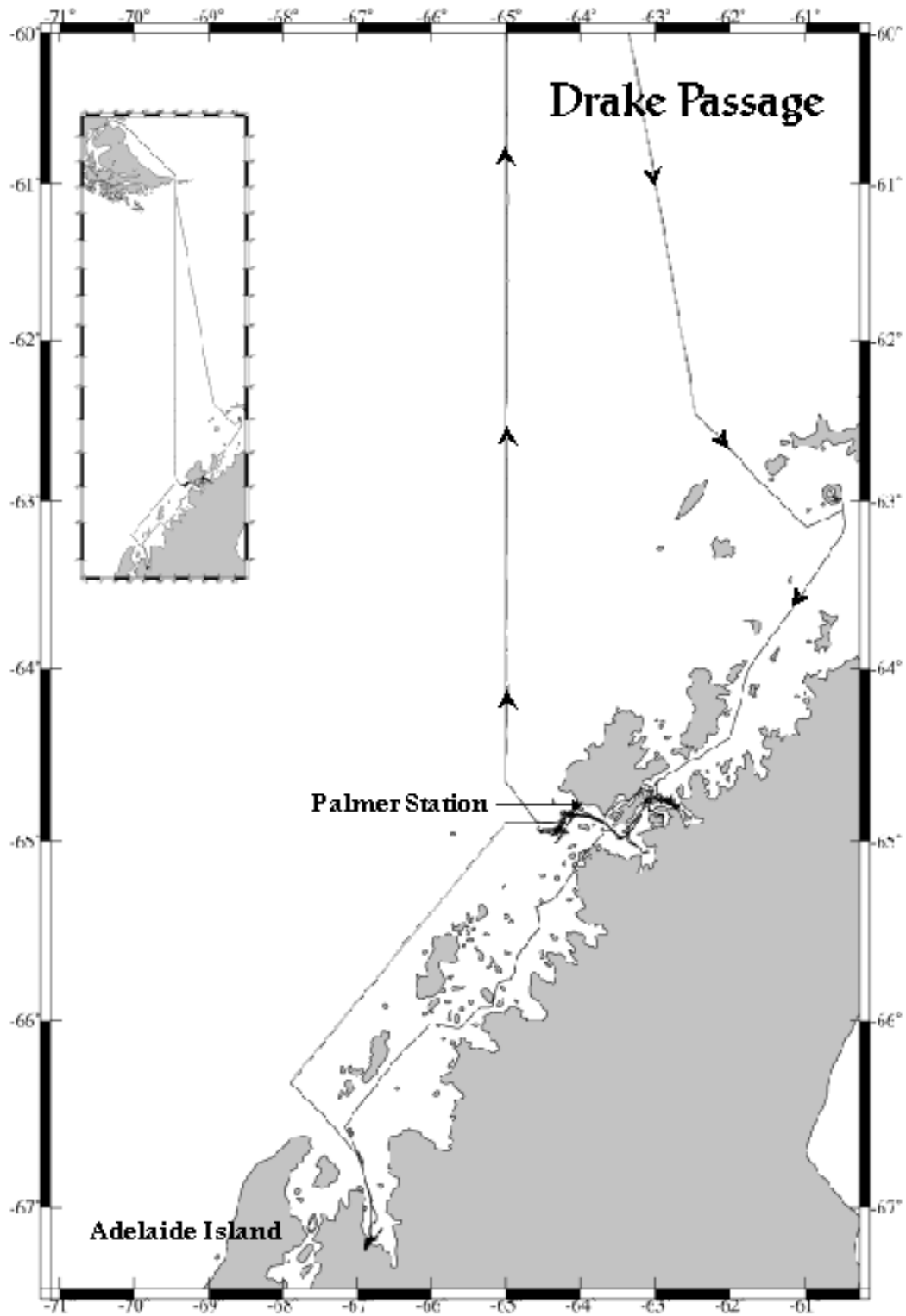
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*Attachment C contains the tracks of Research Vessel cruises during the 1997-98 season. Information for both the LAURENCE M GOULD (LMG) and the NATHANIAL B. PALMER (NBP) are presented along with the cruise number and dates.*

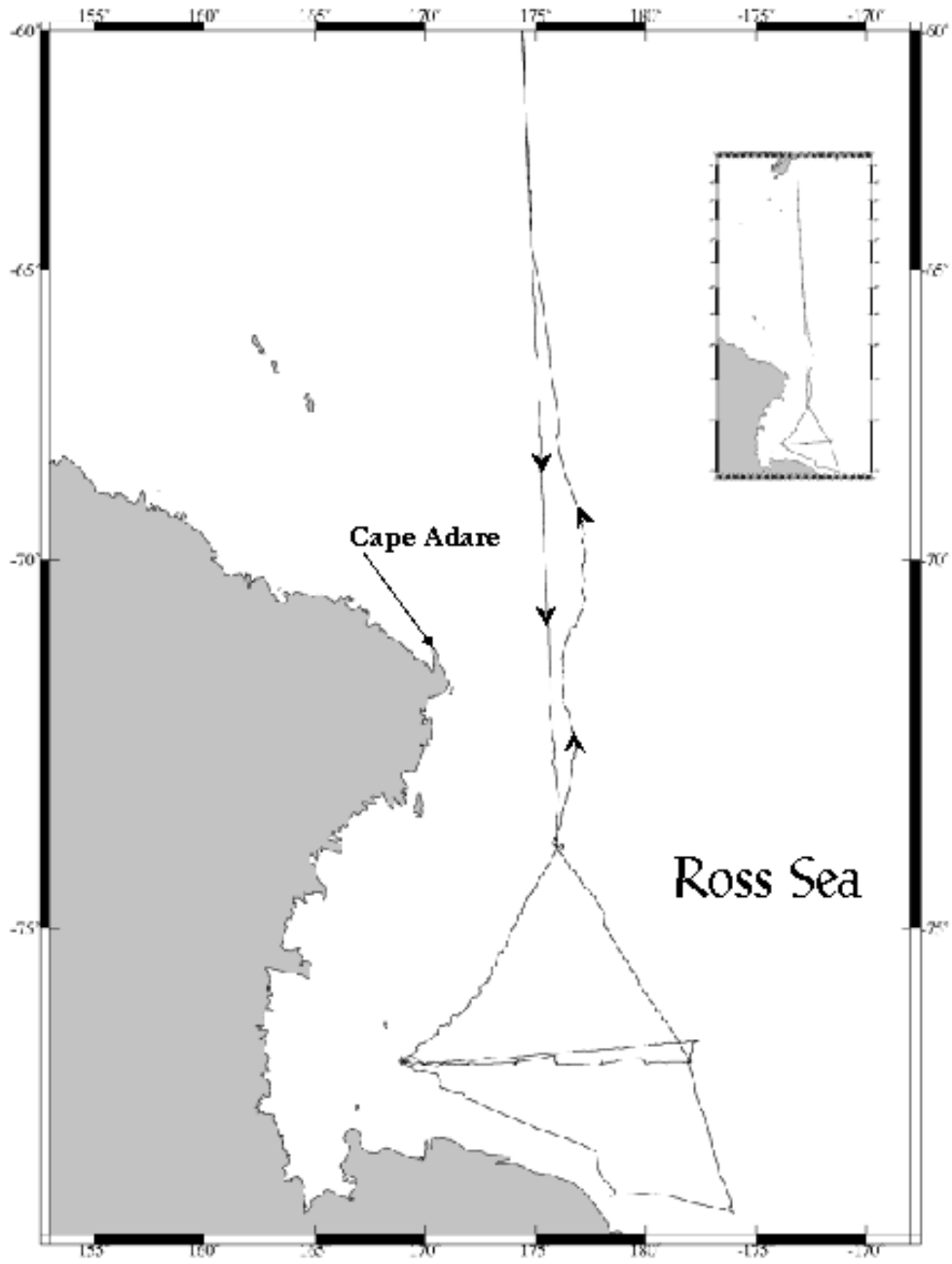
LMG98-1; LTER (22 Jan- 20 Feb)



LMG98-2; Domack (25 Feb- 21 March)

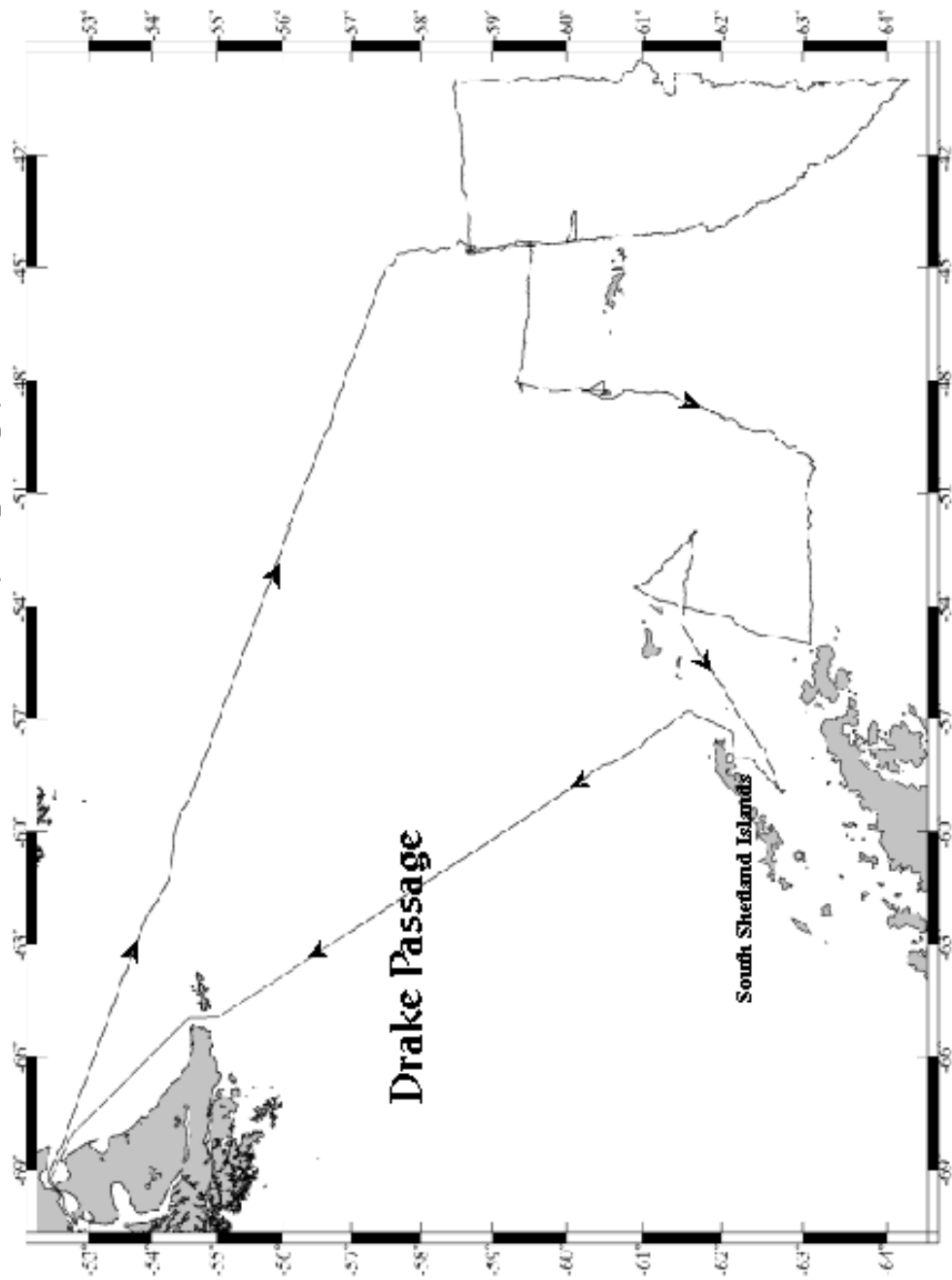


NBP97-3; JGOFS Process III (4 April- 11 May)

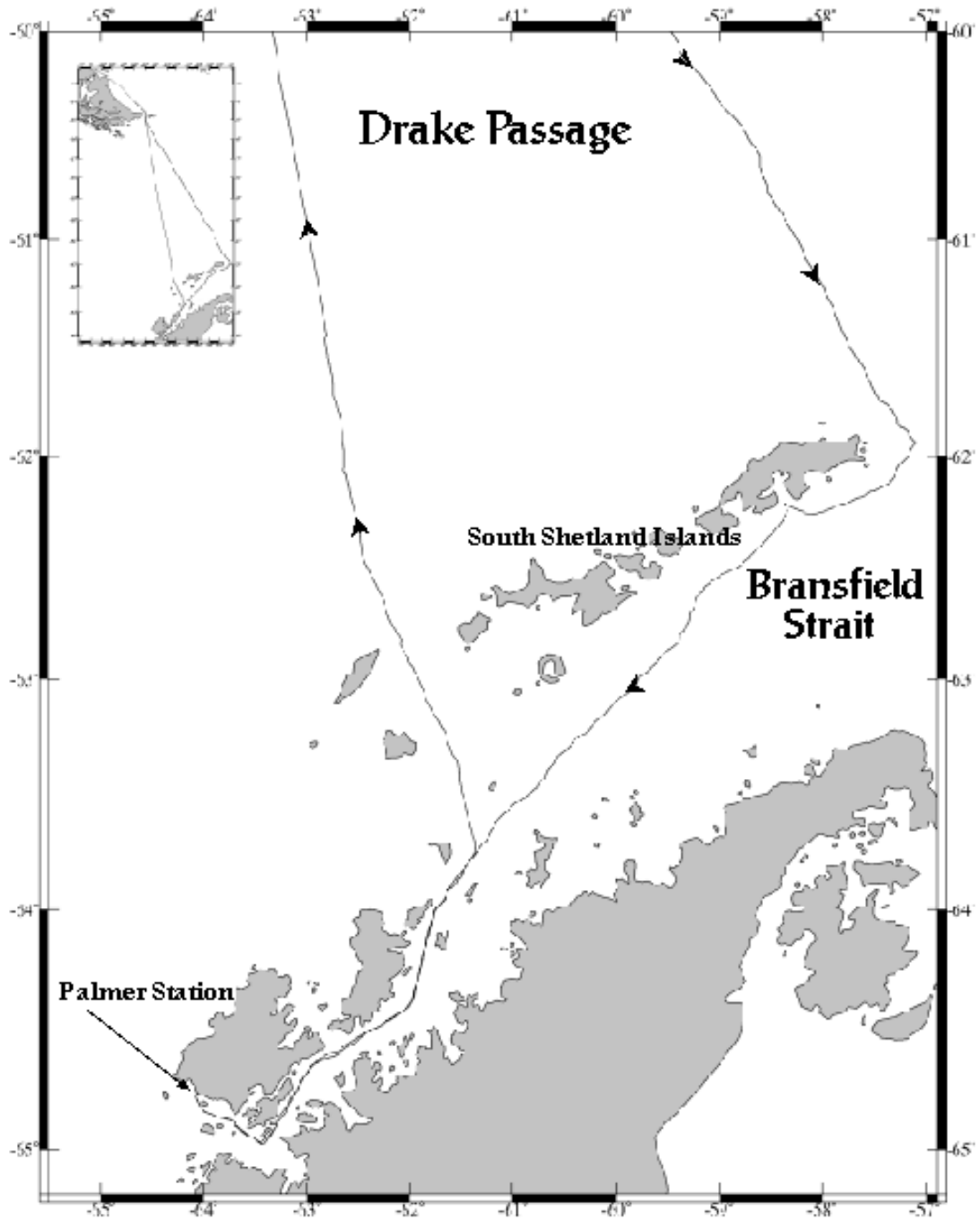




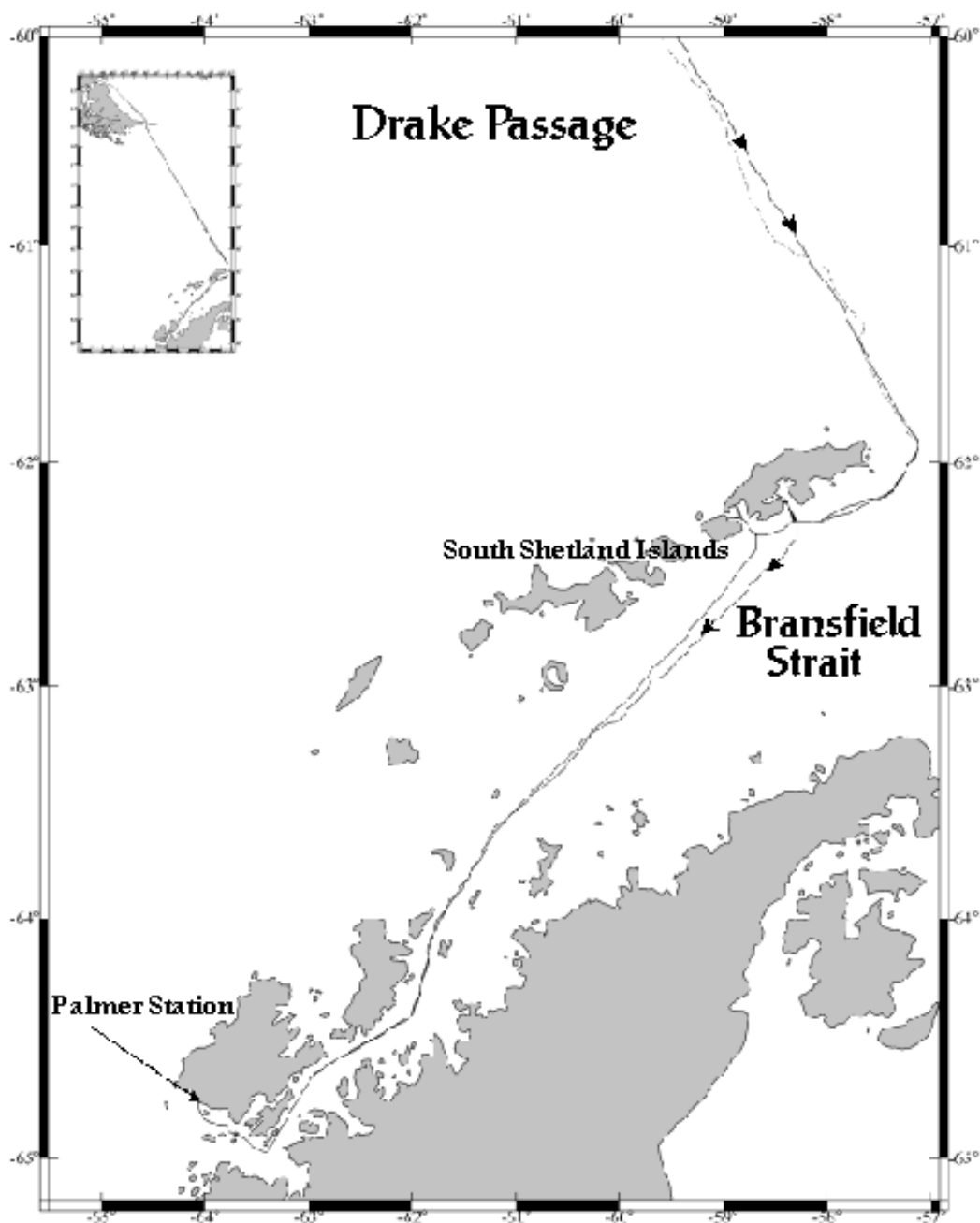
NBP97-5; Dove-tail (1 Aug- 6 Sept)



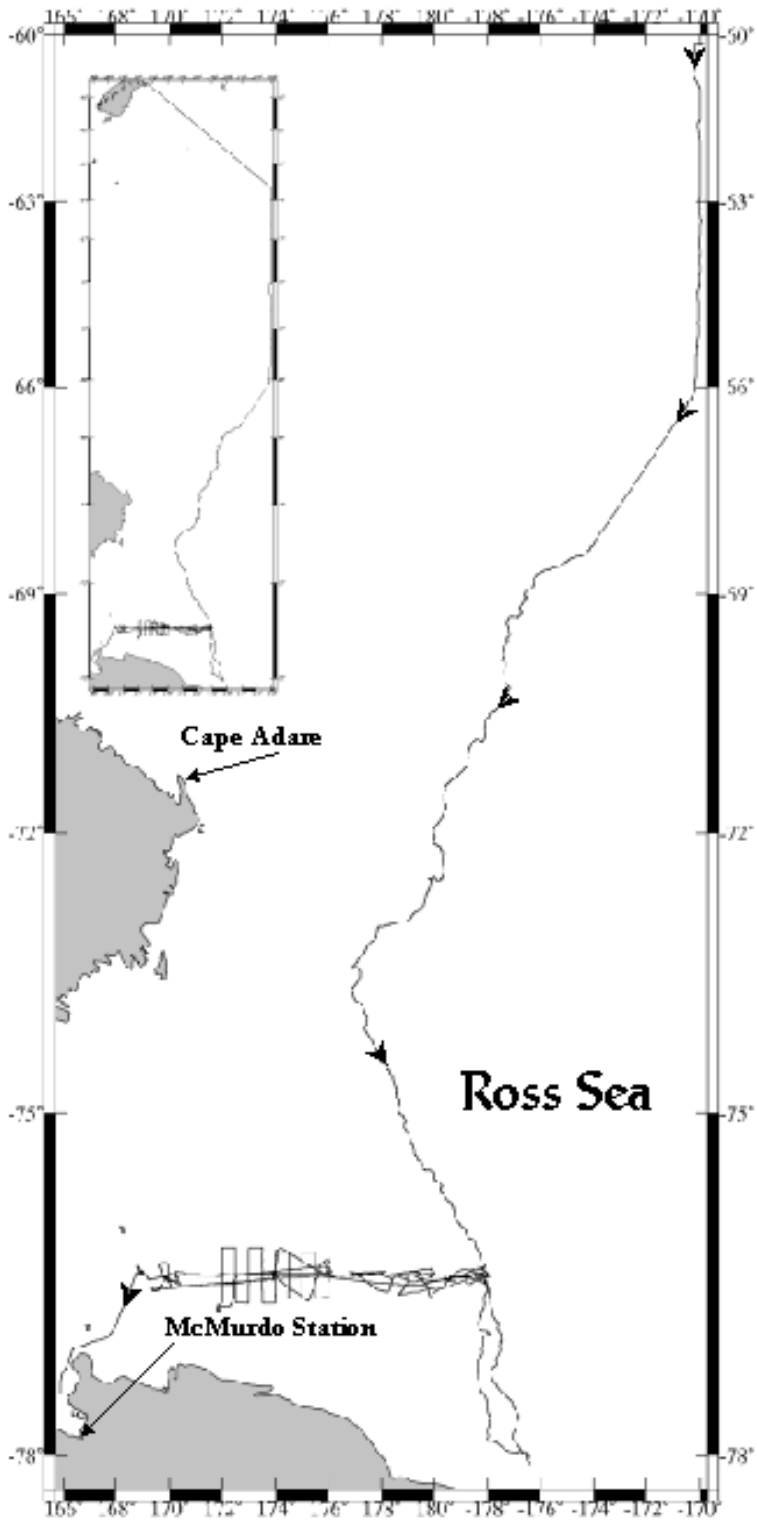
**NBP97-6A; Palmer Station Shuttle (14 Sept- 24 Sept)**



**NBP97-6B; Palmer Station Shuttle (27 Sept- 4 Oct)**



**NBP97-8 JGOFS Process IV (5Nov- 12 Dec)**



**NBP97-9 (ROAVVERS)**





**NBP98-2; JGOFS Benthic Cruise (25 Feb- 3 April)**

