

United States Antarctic Activities 1998-1999

This site fulfills the annual obligation of the United States of America as an Antarctic Treaty signatory to report its activities taking place in Antarctica. This portion, Modifications to Plans 1998-99, supplements Planned Activities for July 1998 through June 1999 published elsewhere on this site.



**National Science Foundation
Arlington, Virginia 22230
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Introduction

Organization and content of this site respond to articles III(1) and VII(5) of the Antarctic Treaty. Format is as prescribed in the Annex to Antarctic Treaty Recommendation VIII-6, as amended by Recommendation XIII-3.

The National Science Foundation, an agency of the U.S. Government, manages and funds the United States Antarctic Program. This program comprises almost the totality of publicly supported U.S. antarctic activities—performed mainly by scientists (often in collaboration with scientists from other Antarctic Treaty nations) based at U.S. universities and other Federal agencies; operations performed by firms under contract to the Foundation; and military logistics by the U.S. Navy including the Military Sealift Command; the U.S. Air Force (Military Airlift Command); and, the New York Air National Guard.

Activities such as tourism sponsored by private U.S. groups or individuals are included. In the past, some private U.S. groups have arranged their activities with groups in another Treaty nation; to the extent that these activities are known to NSF, they are included. Visits to U.S. Antarctic stations by non-governmental groups are described in Section XVI.

This document is intended primarily for use as a Web-based file, but can be printed using the pdf option. Its internal cross links and links to other sites present more information than in the print publications of past years. These links also are intended to facilitate easy use of the site.

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*Information Exchange Under
Articles III and VII(5) of the
ANTARCTIC TREATY*

United States Antarctic Activities

I. Ships and Aircraft

*Section I of the Modifications of Activities Planned for 1998-99
lists any changes to ship and aircraft usage
planned for this time period.*

Ships

No significant changes are reported.

Aircraft

The 109th Tactical Airlift Group (TAG) of the Air National Guard (ANG) based in Schenectady, New York provided four 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 November and December of 1999 as originally planned.

II. Expedition Dates

*Section II of the Modifications of Activities Planned for 1998-99
lists the actual dates of significant events occurring
during this time period.*

Significant Dates of Expeditions

Date	Activity
26 Mar 98	LMG98-3 and LMG98-3A Passengers transport and station support
08 Apr 98	Maintenance Period begins for R/V NBP, Lyttelton, New Zealand
01 May 98	NBP98-3 support of Ross Sea studies
09 May 98	LMG98-4 and LMG98-5 passenger transport to Palmer Station
25 Jun 98	NBP98-4 transit to Punta Arenas to pickup Haz/Rad waste
25 Jul 98	NBP98-5 Vessel off loads Haz/Rad waste and begins maintenance port call in Seattle, WA
28 Jul 98	LMG98-6 and LMG98-7 Maintenance Dry Dock period, Talcahuano
22 Aug 98	First flight of Winfly
10 Sep 98	LMG98-8 and LMG98-9 Station Support and COPA opening
14 Sep 98	Palmer Station opens
20 Sep 98	NBP98-6 Pacific Ocean transit, ARVOC, multi-beam sea trials
03 Oct 98	McMurdo Station opens for Mainbody
04 Oct 98	First C-5 mission to McMurdo of the season (1 of 5)
04 Oct 98	Marble Point opens
12 Oct 98	LMG98-9 Neale/Mopper cruise and support of Palmer Station
27 Oct 98	Siple Dome opens
13 Oct 98	109th AW arrives at McMurdo (1 st Aircraft of 4)
28 Oct 98	South Pole opens (Winfly)
29 Oct 98	Downstream B opens
02 Nov 98	NBP98-7 Third installment of multi-disciplinary project (Dunbar) in the Ross Sea

Date	Activity
24 Nov 98	LMG98-10 Island Hoppers, vessel supported field studies
01 Dec 98	Fueling operations at Vostok Station
01 Dec 98	Vostok Station opens
12 Dec 98	Move runway from sea ice to Williams field skiway.
26 Dec 98	NBP99-1 Studies of sea-ice communities in the Ross Sea
06 Jan 99	LMG99-1 LTER cruise Bellingshausen Sea
06 Jan 99	Downstream B closes
22 Jan 99	M/T LAWRENCE H. GIANELLA departs McMurdo
25 Jan 99	Marble Point refueling operations
29 Jan 99	Vostok Station closes
03 Feb 99	Siple Dome closes
05 Feb.99	Marble Point closes
05 Feb 99	M/V GREENWAVE arrives at McMurdo
11 Feb 99	M/V GREENWAVE departs McMurdo
12 Feb 99	NBP99-2 Transit begins to Punta Arenas and study in the timing of ice sheet grounding and retreat (Anderson)
17 Feb 99	South Pole Station closes
22 Feb 99	109th AW departs McMurdo
22 Feb 99	McMurdo Station closes via LC130
22 Feb 99	Final LC-130 turnaround at McMurdo
22 Feb 99	LMG99-2 Deception Island time-series study and mapping
21 Mar 99	LMG99-3 Weddell Sea, King George Island – support of Sidell/Detrich and Anderson

III. Station Openings

Section III of the Modifications of Activities Planned for 1998-99 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: 22 August 1998

Amundsen-Scott South Pole Station

Location: 90° 00'S Latitude
Annual Relief: 28 October 1998

Palmer Station

Location: Anvers Island near Bonaparte Point
64° 46'S Latitude
64° 05'W Longitude
Annual Relief: 14 September 1998

Austral Summer Camps

Siple Dome Camp

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

Open: 27 October 1998

Close: 03 February 1999

Downstream Bravo Camp

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

Open: 29 October 1998

Close: 06 January 1999

Ford Range Camp

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

Open: 23 November 1998

Close: 03 February 1999

IV. Personnel

Section IV of the Modifications of Activities Planned for 1998-99 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 60th South parallel, the date of transit, their professional affiliation, and visitor category.

Senior United States Representatives

DATES	NAME
19 Nov 98 – 14 Dec 98	Erick Chiang
18 Jan 99 – 21 Jan 99	Erick Chiang
22 Jan 99 – 28 Jan 99	Karl A. Erb

NSF Representatives in Antarctica

* Denotes Science Representative

DATES	NAME	LOCATION
22 Aug 98 – 31 Aug 98	David M. Bresnahan	McMurdo
03 Oct 98 – 16 Dec 98	Simon Stephenson	McMurdo
16 Oct 98 – 20 Nov 98	Scott G. Borg *	McMurdo
21 Nov 98 – 03 Dec 98	Julie M. Palais *	McMurdo
17 Dec 98 – 22 Feb 99	David M. Bresnahan	McMurdo
08 Jan 99 – 28 Jan 99	Roberta Marinelli *	McMurdo
08 Nov 98 – 03 Dec 98	Bernard Lettau *	South Pole
09 Dec 98 – 17 Feb 99	Jerry W. Marty	South Pole
02 Jan 99 – 28 Jan 99	Elizabeth J. Telez *	Palmer Station

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 1998-99 season were:

McMurdo Station

COL Richard M. Saburro, USAF	03 Oct 98 – 22 Feb 99
John S. Sherve (winter-over)#	09 Dec 97 – 22 Oct 98
Terry L. Melton (winter-over)	23 Oct 98 -

Amundsen-Scott South Pole Station

David Fischer, Station Manager	25 Oct 98 – 17 Feb 99
Michel F. Masterman (winter-over)	25 Oct 98 -

Palmer Station

Ronald Nugent, Station Manager	16 Sep 98- 23 Mar 99
Christopher Cuning (winter-over)	24 Mar 99 -

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

Section V of the Modifications of Activities Planned for 1998-99 details changes in the number and type of armaments possessed by personnel at the main Antarctic stations and on research vessels. No significant changes were noted during the reporting period at any station or on research vessels.

VI. Project Descriptions

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 1998-99 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>LMG¹</u>	<u>NBP²</u>	<u>AGO³</u>	<u>REV⁴</u>
Astrophysics Aeronomy							
Dewar, Liquid Helium Storage	X						
Dewar, Liquid Nitrogen Storage	X						
Pump, Turbomolecular	X						
Transport, Liquid Nitrogen			X				
Uninterrupted Power Supply (UPS)			X				
Biology							
Autoanalyzer	X				X		
Camera, Digital Still			X				
Camera, Solid State, for Microscopic Image Analysis			X				
Camera, Video, for Microscopy					X		
Centrifuge, Refrigerated					X		
Counter, Liquid Scintillation	X						
Ice Maker			X				
Microbalance					X		

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³	<u>REV</u> ⁴
Microscope, Differential Interference Contract (DIC)			X				
Microscope, Image Analysis System			X				
Microplate Reader	X						
Microscope, Inverted, Epifluorescence					X		
Computers							
<u>Macintosh:</u>							
Computer, G3	X						
Computer, iMac	X						
Computer, Quadra, 700	X						
Macintosh, Duo Power PC, Portable				X			
Macintosh Power PC 63					X		
Macintosh Power PC 7100					X		
Macintosh Power PC 7300				X			
Macintosh Power PC 8150					X		
Macintosh Power PC 8600				X			
Macintosh Power PC 9500					X		
<u>Computer:</u>							
Computer, Portable, 586	X						
<u>Workstation:</u>							
SGI 02					X		
Sun Sparc 10	X						
Sun U450	X						
Sun Ultra1	X						
Sun Ultra2	X						

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³	<u>REV</u> ⁴
Geology & Geophysics							
Seismic, Benthos, Single Channel					X		
Oceanography/Limnology							
Echo Sounder, Biosonics Acoustic Profiler			X				
Metering Sheave			X				
PDR System, 3.5 and 12 KHz					X		
Winch, Portable, Hand			X				
Lhe Vapor Recovery System		X					
Other:							
Frequency Counter					X	X	
Tracking System, Satellite			X				
Video Camcorder	X		X				

Deletions to Scientific Equipment

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³	<u>REV</u> ⁴
Biology							
Compressor, Air, Scuba Tank					X		
Freezer, Walk-in			X				
Laboratory, Portable (for sea ice)	X				X		
Spectrophotofluorometer					X		

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³	<u>REV</u> ⁴
Computers							
<u>Macintosh:</u>							
Computer, Classic	X						
Computer, Desktop, LC	X						
Macintosh Power PC 7200				X	X		
<u>PC</u>							
Computer, Portable, XT	X						
Computer, Server, 486					X		
<u>Printers:</u>							
Ink Jet, Monochrome	X				X	X	
<u>Miscellaneous:</u>							
Bernoulli Disk			X				
<u>Workstation</u>							
HP 9000	X						
Geology/Geophysics							
X-Ray Instrument, Whole Core	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

Section VIII of Modifications of Activities Planned for 1998-99 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

Bulldozer	1
Crane	1
Snowblower	1
Truck, Dump	1
Loader	1
Compactor	1

Amundsen-Scott South Pole Station

Add

Tractor Crawler	1
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Palmer Station

Delete

Front loader

1

Description of Communications Facilities

McMurdo Station

Two projects scheduled for the reporting period were not completed as scheduled. These were the installation of the Base radio at T-site and the installation of a 24/12 composite fiber optic cable for MGS-AH at the Crary lab.

South Pole Station

In addition to scheduled work, the GOES-3 satellite system was upgraded during the Austral summer season.

The Naval Order Wire System (NOWS) RTTY link was not installed as planned.

Palmer Station

In addition to scheduled work, the Motorola MICOL system was replaced with a Motorola Spectra system for ATS-3 operations

Description of Airfields

McMurdo Station

No significant changes are noted.

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

*Section IX of the Modifications of Activities Planned for 1998-99
details changes in the facilities available for rendering assistance in
Antarctica including medical, transport services and emergency
shelters.*

All Stations

No significant changes in assistance facilities were noted at any Antarctic station operated by the United States Antarctic Program.

X. Tourism

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

Abercrombie & Kent International, Inc.

Explorer Shipping Corporation and Abercrombie & Kent International, Inc. of Oak Brook, Illinois, conducted a total of ten cruises to the Antarctic Peninsula during the 1998-99 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-829

November 1998

44 PAX; 14 STAFF; 61 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		07 NOV 1998
Southeast Falklands		08 NOV 1998
at sea		09-10 NOV 1998
South Georgia		11-13 NOV 1998
at sea		14 NOV 1998
South Orkneys		15-16 NOV 1998
Half Moon Island	59	17 NOV 1998
Whalers Bay, Deception Island	59	17 NOV 1998
Lagarrigue Cove, Errera Cove	59	18 NOV 1998
Damoy Point, Weinke Island	59	18 NOV 1998
Jougla Point, Port Lockroy	10	18 NOV 1998

Hannah Point, Livingston Island	58	19 NOV 1998
at sea		20-21 NOV 1998
Ushuaia, ARGENTINA		22 NOV 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-830

November/December 1998
67 PAX; 13 STAFF; 62 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		22 NOV 1998
at sea		23-24 NOV 1998
Cape Shireff, Livingston Island		25 NOV 1998
Arctowski Station	9	26 NOV 1998
Half Moon Island	81	26 NOV 1998
Cuverville Island	81	27 NOV 1998
Damoy Point, Weinke Island	73	28 NOV 1998
Port Lockroy & Goudier Island	82	28 NOV 1998
at sea		29 NOV - 01 DEC 1998
Ushuaia, ARGENTINA		02 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-831

December 1998
58 PAX; 14 STAFF; 62 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		02 DEC 1998
at sea		03-04 DEC 1998
Cuverville Island	72	05 DEC 1998

Port Lockroy and Goudier Island	65	05 DEC 1998
Orne Island	72	06 DEC 1998
Portal Point, Charlotte Bay	72	06 DEC 1998
Baily Head, Deception Island	70	07 DEC 1998
Pendulum Cove, Deception Island	60	07 DEC 1998
Hannah Point, Livingston Island	47	07 DEC 1998
Esperanza Station, Hope Bay	72	08 DEC 1998
Gourdin Island	71	08 DEC 1998
Arctowski Station	72	09 DEC 1998
Penguin Island, King George Island	72	09 DEC 1998
Drake Passage (at sea)		10-11 DEC 1998
Ushuaia, ARGENTINA		12 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-832

December 1998

42 PAX; 8 STAFF; 66 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		12 DEC 1998
at sea		13-14 DEC 1998
Hannah Point, Livingston Island	51	15 DEC 1998
Whalers Bay, Deception Island	53	15 DEC 1998
Pendulum Cove, Deception Island	47	15 DEC 1998
Neko Harbor, Andvord Bay	49	16 DEC 1998
Paradise Bay	48*	16 DEC 1998
Petermann Island	53	17 DEC 1998
Port Lockroy, Wiencke Island	52	17 DEC 1998
Foyn Harbor	48*	18 DEC 1998
Half Moon Island	43	19 DEC 1998
Arctowski Station	51	19 DEC 1998

at sea	20-21 DEC 1998
New & Carcass Islands, Falklands	22 DEC 1998
Port Stanley, FALKLAND ISLANDS	23 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-833

December 1998/January 1999

92 PAX; 9 STAFF; 65 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		23 DEC 1998
Carcass/New Island		24 DEC 1998
at sea		25-26 DEC 1998
Brown Bluff, Tabarin Peninsula	102	27 DEC 1998
Gourdin Island	100	27 DEC 1998
Aitcho Island	99	28 DEC 1998
Hannah Point, Livingston Island	100	28 DEC 1998
Danco Island	98	29 DEC 1998
Neko Harbor, Andvord Bay	93	29 DEC 1998
Paradise Bay,	101*	29 DEC 1998
Petermann Island	107	30 DEC 1998
Vernadsky Station	89	30 DEC 1998
Port Lockroy, Wiencke Island	100	31 DEC 1998
Palmer Station, Anvers Island	114	31 DEC 1998
Torgersen Island	102	31 DEC 1998
Whalers Bay, Deception Island	95	01 JAN 1999
Telefon Bay, Deception Island	63	01 JAN 1999
Drake Passage (at sea)		02-03 JAN 1999
Ushuaia, ARGENTINA		04 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-901

January 1999
79 PAX; 8 STAFF; 66 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		04 JAN 1999
Drake Passage (at sea)		05-06 JAN 1999
Arturo Prat Base	90	06 JAN 1999
Gourdin Island	89	07 JAN 1999
Paulet Island	88	07 JAN 1999
Devil Island	89	08 JAN 1999
View Point, Duse Bay, Trinity Peninsula	88	08 JAN 1999
Pendulum Cove, Deception Island	81	09 JAN 1999
Whalers Bay, Deception Island	82	09 JAN 1999
Cuerverville Island	85	10 JAN 1999
Petermann Island	86	10 JAN 1999
Port Lockroy, Wiencke Island	90	11 JAN 1999
Paradise Bay	101	11 JAN 1999
at sea		12-13 JAN 1999
Ushuaia, ARGENTINA		14 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-902

January/February 1999
100 PAX; 16 STAFF; 61 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 JAN 1999
at sea		18-19 JAN 1999
Damoy Point, Wiencke Island	127	20 JAN 1999
Goudier Island	127	20 JAN 1999
Petermann Island	114	20 JAN 1999
Pendulum Cove, Deception Island	106	21 JAN 1999

Hannah Point, Livingston Island	114	21 JAN 1999
Brown Bluff, Tabarin Peninsula	116	22 JAN 1999
Kinnes Cove, Joinville Island	54	22 JAN 1999
South Orkneys		24 JAN 1999
at sea		25 JAN 1999
South Georgia		26-28 JAN 1999
at sea		29-30 JAN 1999
Southeast Falklands		31 JAN 1999
Port Stanley, FALKLAND ISLANDS		01 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-903

February 1999

86 PAX; 11 STAFF; 61 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		01 FEB 1999
Carcass/New Island		02 FEB 1999
at sea		03-04 FEB 1999
Seal Island, South Shetlands	06	05 FEB 1999
Point Wild, Elephant Island	92*	05 FEB 1999
Cape Lookout, Elephant Island	87*	05 FEB 1999
Devil Island	97	06 FEB 1999
Cape Lachman, James Ross Island	95	06 FEB 1999
Whalers Bay, Deception Island	94	07 FEB 1999
Pendulum Cove, Deception Island	87	07 FEB 1999
Hannah Point, Livingston Island	97	07 FEB 1999
Cuerverville Island	97	08 FEB 1999
Spigot Peak, Orne Island	97	08 FEB 1999
Vernadsky Station	96	08 FEB 1999
Wordie Hut	95	08 FEB 1999
Detaille Island	96	09 FEB 1999
Barcroft Islands	96	10 FEB 1999

Fish Islands	95	10 FEB 1999
Goudier Island	97	11 FEB 1999
Jougla Point, Port Lockroy	97	11 FEB 1999
at sea		12-13 FEB 1999
Ushuaia, ARGENTINA		14 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-904

February 1999

88 PAX; 11 STAFF; 63 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		14 FEB 1999
at sea		15-16 FEB 1999
Enterprise Island	98*	17 FEB 1999
Cuerverville Island	99	17 FEB 1999
Almirante Brown Station	99	17 FEB 1999
Petermann Island	98	18 FEB 1999
Torgersen Island	85	18 FEB 1999
Palmer Station, Anvers Island	104	18 FEB 1999
Jougla Point, Port Lockroy	96	19 FEB 1999
Goudier Island, Port Lockroy	99	19 FEB 1999
Telefon Bay, Deception Island	97	20 FEB 1999
Pendulum Cove, Deception Island	91	20 FEB 1999
Whalers Bay, Deception Island	99	20 FEB 1999
Half Moon Island	95	20 FEB 1999
Devils Island	99	21 FEB 1999
at sea		22-23 FEB 1999
Ushuaia, ARGENTINA		24 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX 905
February /March 1999
88 PAX; 11 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		24 FEB 1999
at sea		25-26 FEB 1999
Cuverville Island	99	27 FEB 1999
Skontorp Cove, Paradise Bay	98	27 FEB 1999
Petermann Island	99	28 FEB 1999
Goudier Island, Port Lockroy	100	28 FEB 1999
Jouglá Point, Port Lockroy	99	28 FEB 1999
Pendulum Cove, Deception Island	87	01 MAR 1999
Half Moon Island	99	01 MAR 1999
Ardley Cove	08	01 MAR 1999
South Orkneys		03 MAR 1999
at sea		04 MAR 1999
South Georgia		05-07 MAR 1999
at sea		08-09 MAR 1999
Southeast Falklands		10 MAR 1999
Port Stanley, FALKLAND ISLANDS		11 MAR 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Society Expeditions

Society Expeditions of Seattle, Washington, conducted a total of six cruises to the Antarctic Peninsula during the 1998-99 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-#83011

November/December 1998
125 PAX; 13 STAFF; 75 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		30 NOV 1998
at sea		01-03 DEC 1998
Gonzales Videla Station	128	04 DEC 1998
Baily Head, Deception Island	116	05 DEC 1998
Whalers Bay, Deception Island	128	05 DEC 1998
Hannah Point, Livingston Island	127	05 DEC 1998
Paulet Island	133	06 DEC 1998
Arctowski Station, King George Island	126	07 DEC 1998
Penguin Island	134	07 DEC 1998
Cape Lookout, Elephant Island	125	08 DEC 1998
Orcadas Base, Laurie Island, South Orkneys	135	09 DEC 1998
at sea		10 DEC 1998
South Georgia		11-13 DEC 1998
at sea		14-15 DEC 1998
Sea Lion and Bleaker Islands, Falklands		16 DEC 1998
Port Stanley, FALKLAND ISLANDS		17 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD-#81712
December 1998/January 1999
134 PAX; 14 STAFF; 75 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		17 DEC 1998
Seal Lion and Bleaker Islands, Falklands		18 DEC 1998
at sea		19-20 DEC 1998
Grytviken Station, South Georgia	168	21 DEC 1998
St. Andrews Bay, South Georgia	142	21 DEC 1998
Salisbury Plain, South Georgia	73	22 DEC 1998
Prion Island, South Georgia	143	22 DEC 1998
Husvik Whaling Station, South Georgia	147	22 DEC 1998
Gold Harbor, South Georgia	136	23 DEC 1998
at sea		24 DEC 1998
Orcadas Base, Laurie Island	135	25 DEC 1998
at sea		26 DEC 1998
Paulet Island	138	27 DEC 1998
Penguin Island	131	28 DEC 1998
Comandante Ferraz Station, King George Is.	139	28 DEC 1998
Hannah Point, Livingston Island	132	29 DEC 1998
Baily Head, Deception Island	129	29 DEC 1998
Whalers Bay, Deception Island	123	29 DEC 1998
Cuerverville Island	128	30 DEC 1998
Port Lockroy, Wiencke Island	136	30 DEC 1998
Almirante Brown Station	143	31 DEC 1998
at sea		01-02 JAN 1999
Ushuaia, ARGENTINA		03 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD-#90301

January 1999
123 PAX; 12 STAFF; 77 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		03 JAN 1999
at sea		04-05 JAN 1999
Aitcho Island	132	05 JAN 1999
Paulet Island	126	06 JAN 1999
Snow Hill Island	115	07 JAN 1999
Seymour Island	119	07 JAN 1999
Penguin Island	114	08 JAN 1999
Arctowski Station, King George Island	119	08 JAN 1999
Baily Head, Deception Island	88	09 JAN 1999
Whalers Bay, Deception Island	85	09 JAN 1999
Hannah Point, Livingston Island	107	09 JAN 1999
Almirante Brown Station	134	10 JAN 1999
Port Lockroy, Wiencke Island	117	10 JAN 1999
Pleneau Island	37	11 JAN 1999
Palmer Station/Torgersen Island	120	11 JAN 1999
at sea		12-13 JAN 1999
Ushuaia, ARGENTINA		14 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD-#91401

January 1999
118 PAX; 12 STAFF; 79 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		14 JAN 1999
at sea		15-16 JAN 1999
West Point Island, Falkland Islands	132	16 JAN 1999
Carcass Island, Falkland Islands	132	16 JAN 1999

Port Stanley, Falkland Islands	143	17 JAN 1999
At sea		18-19 JAN 1999
Grytviken Station, South Georgia	140	20 JAN 1999
Salisbury Plain, South Georgia	109	21 JAN 1999
Prion Island, South Georgia	122	21 JAN 1999
Elsehul Bay, South Georgia	118	21 JAN 1999
At sea		22-23 JAN 1999
Point Wild, Elephant Island	120*	24 JAN 1999
Cape Lookout, Elephant Island	122	24 JAN 1999
Paulet Island	132	25 JAN 1999
Baily Head, Deception Island	109	26 JAN 1999
Whalers Bay, Deception Island	90	26 JAN 1999
Hannah Point, Livingston Island	107	26 JAN 1999
Almirante Brown Station	121	27 JAN 1999
Port Lockroy, Wiencke Island	111	27 JAN 1999
Vernadsky Station	119	28 JAN 1999
Petermann Island	102	28 JAN 1999
at sea		29-30 JAN 1999
Ushuaia, ARGENTINA		31 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD-#93101

January/February 1999

113 PAX; 12 STAFF; 79 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		31 JAN 1999
at sea		01-02 FEB 1999
Vernadsky Station	119	03 FEB 1999
Petermann Island	112	03 FEB 1999
Port Lockroy, Wiencke Island	134	04 FEB 1999
Almirante Brown Station	116	04 FEB 1999
Hannah Point, Livingston Island	111	05 FEB 1999

Whalers Bay, Deception Island	104	05 FEB 1999
Paulet Island	115*	06 FEB 1999
Cape Lookout, Elephant Island	123*	07 FEB 1999
Orcadas Base, South Georgia	112	08 FEB 1999
at sea		09 FEB 1999
Grytviken Station, South Georgia	130	10 FEB 1999
St. Andrews Bay, South Georgia	115	10 FEB 1999
Cooper Bay, South Georgia	112	11 FEB 1999
Gold Harbor, South Georgia	94	11 FEB 1999
Salisbury Plain, South Georgia	80	12 FEB 1999
Prion Island, South Georgia	115	12 FEB 1999
at sea		13-14 FEB 1999
Sea Lion/Bleaker Islands, Falklands		15 FEB 1999
Port Stanley, FALKLAND ISLANDS		16 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD-#91602

February/March 1999

117 FAX; 9 STAFF; 80 CREW

<u>Ports</u>	<u># PAX ¹</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		16 FEB 1999
Sea Lion/Bleaker Islands, Falklands		17 FEB 1999
at sea		18-19 FEB 1999
Arctowski Station, King George Island	132	20 FEB 1999
Hannah Point, Livingston Island	114	21 FEB 1999
Whalers Bay, Deception Island	101	21 FEB 1999
Almirante Brown Station	125	22 FEB 1999
Port Lockroy, Wiencke Island	128	22 FEB 1999
Detaille Island	99*	23 FEB 1999
Vernadsky Station	101	24 FEB 1999
at sea		25-26 FEB 1999
Beagle Channel		27 FEB 1999

Chilean Fjords	28 FEB - 03 MAR 1999
Castro, Chiloe Island	04 MAR 1999
Talchauano, CHILE	06 MAR 1999
at sea	05 MAR 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Quark Expeditions

Quark Expeditions of Darien, Connecticut, conducted a total of 23 cruises to the Antarctic during 1998-99 using three chartered vessels. The Professor Molchanov conducted 10 cruises, the Professor Multanovskiy conducted 10 and Kapitan Khlebnikov conducted three.

PROFESSOR MOLCHANOV

Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

Cruise MOL # DIV01 (Sub-chartered by Aurora Expeditions of Australia)
November 1998
41 PAX; 9 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Puerto Madryn, ARGENTINA		11 NOV 1998
at sea		12-13 NOV 1998
New Island, Falkand Islands	61 [♦]	13 NOV 1998
at sea		14-15 NOV 1998
Half Moon Island	45	16 NOV 1998
Jubany Station, King George Island	28	16 NOV 1998
Jubany Station, King George Island	19 [♦]	16 NOV 1998
Hydrurga Rocks	41	17 NOV 1998

Hydrurga Rocks	27 [♦]	17 NOV 1998
Cuerverville Island	45	17 NOV 1998
Cuerverville Island	10%	17 NOV 1998
Port Lockroy, Wiencke Island	48	18 NOV 1998
Port Lockroy, Wiencke Island	22 [♦]	18 NOV 1998
Lion Island	15*	18 NOV 1998
Northern Anvers Island	28 [♦]	18 NOV 1998
Danco Island	41%	19 NOV 1998
Danco Island	20 [♦]	19 NOV 1998
Wilhelmina Bay	51	19 NOV 1998
Baily Head, Deception Island	43	20 NOV 1998
Baily Head, Deception Island	19 [♦]	20 NOV 1998
Whalers Bay, Deception Island	47	20 NOV 1998
Drake Passage (at sea)		21-22 NOV 1998
Ushuaia, ARGENTINA		23 NOV 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

♦ = scuba diving; % = snorkeling

Cruise MOL #AS605 (Sub-chartered by Aurora Expeditions of Australia)
November/December 1998
48 PAX; 8 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		23 NOV 1998
at sea		24 NOV 1998
Sea Lion Island, Falkland Islands	52	25 NOV 1998
Port Stanley, Falkland Islands	59	26 NOV 1998
at sea		27-28 NOV 1998
Fortuna Bay, South Georgia	51	29 NOV 1998
Grytviken Station, South Georgia	56	29 NOV 1998
Albatross Island, South Georgia	54	30 NOV 1998
Salisbury Plain, South Georgia	60	30 NOV 1998
Stromness Bay, South Georgia	40	01 DEC 1998

Cobblers Cove, South Georgia	47	01 DEC 1998
Royal Bay, South Georgia	44	01 DEC 1998
Larsen Harbor, South Georgia	38	02 DEC 1998
at sea		03 DEC 1998
Shingle Cove, Coronation Island	56	04 DEC 1998
Cape Lookout, Elephant Island	43	05 DEC 1998
Bellingshausen Station, King George Island	57	06 DEC 1998
Baily Head, Deception Island	48	06 DEC 1998
Portal Point, Charlotte Bay	57	07 DEC 1998
Cuverville Island	50	07 DEC 1998
Cierva Cove	51	08 DEC 1998
Intercurrence Island	49*	08 DEC 1998
Drake Passage (at sea)		09-10 DEC 1998
Ushuaia, ARGENTINA		11 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MOL #ANP15 (Sub-chartered by Aurora Expeditions of Australia)
December 1998
52 PAX; 5 STAFF; 20 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		11 DEC 1998
Drake Passage (at sea)		12-13 DEC 1998
Aitcho Island	53	13 DEC 1998
Brown Bluff, Tabarin Peninsula	49	14 DEC 1998
Paulet Island	52	14 DEC 1998
Astrolabe Island	54	15 DEC 1998
Baily Head, Deception Island	55	15 DEC 1998
Pendulum Cove, Deception Island	27	15 DEC 1998
Charlotte Bay	50	16 DEC 1998
Danco Island	53	16 DEC 1998
Danco Island	46	16 DEC 1998
Port Lockroy, Wiencke Island	57	17 DEC 1998

Hydrurga Rocks	54	18 DEC 1998
Hannah Point, Livingston Island	47	18 DEC 1998
Drake Passage (at sea)		19-20 DEC 1998
Ushuaia, ARGENTINA		21 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MOL #ANP16 (Sub-chartered by Aurora Expeditions of Australia)
December 1998
49 PAX; 7 STAFF; 19 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		21 DEC 1998
Drake Passage (at sea)		22-23 DEC 1998
Aitcho Island	53	23 DEC 1998
Paulet Island	53	24 DEC 1998
Brown Bluff, Tabarin Peninsula	53	24 DEC 1998
Mikkelsen Harbor, Trinity Island	54	25 DEC 1998
Charlotte Bay	55	25 DEC 1998
Cuerverville Island	18	26 DEC 1998
Danco Island	31	26 DEC 1998
Port Lockroy, Wiencke Island	43	26 DEC 1998
Pleneau Island	32 [▲]	26 DEC 1998
Almirante Brown Station	55	27 DEC 1998
Neko Harbor, Andvord Bay	48	28 DEC 1998
Baily Head, Deception Island	59	29 DEC 1998
Pendulum Cove, Deception Island	52	29 DEC 1998
Hannah Point, Livingston Island	50	29 DEC 1998
Drake Passage (at sea)		30 DEC 1998
Ushuaia, ARGENTINA		31 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; ▲ = camping

Cruise MOL #ANP17 (Sub-chartered by Aurora Expeditions of Australia)
December 1998/January 1999
53 PAX; 7 STAFF; 19 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		31 DEC 1998
Drake Passage (at sea)		01-02 JAN 1999
Aitcho Island	58	02 JAN 1999
Paulet Island	59	03 JAN 1999
Beak Island	51	03 JAN 1999
Baily Head, Deception Island	62	04 JAN 1999
Whalers Bay, Deception Island	51	04 JAN 1999
Pendulum Cove, Deception Island	39	04 JAN 1999
Cuerverville Island	57	05 JAN 1999
Port Lockroy, Wiencke Island	48	05 JAN 1999
Petermann Island	37 [▲]	05 JAN 1999
Pleneau Island	37	06 JAN 1999
Vernadsky Station	57	06 JAN 1999
Portal Point, Charlotte Bay	55	07 JAN 1999
Hydrurga Rocks	57	07 JAN 1999
Drake Passage (at sea)		08-09 JAN 1999
Ushuaia, ARGENTINA		10 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; ▲ = camping

Cruise MOL #ASG06 (Sub-chartered by Aurora Expeditions of Australia)
January 1999
51 PAX; 9 STAFF; 19 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		10 JAN 1999
Drake Passage (at sea)		11 JAN 1999
Sea Lion Island, Falkland Islands	66	12 JAN 1999

Port Stanley, Falkland Islands	68	13 JAN 1999
at sea		14-15 JAN 1999
Stromness Bay, South Georgia	60	16 JAN 1999
Salisbury Plain, South Georgia	59	16 JAN 1999
Albatross Island, South Georgia	20	16 JAN 1999
Grytviken Station, South Georgia	59	17 JAN 1999
Cobblers Cove, South Georgia	25	17 JAN 1999
Rookery Bay, South Georgia	35*	17 JAN 1999
Godthul Bay, South Georgia	24	17 JAN 1999
St. Andrews Bay, South Georgia	58	18 JAN 1999
Gold Harbor, South Georgia	61	18 JAN 1999
Royal Bay, South Georgia	24	18 JAN 1999
Coopers Bay, South Georgia	48	19 JAN 1999
Larsen Harbor, South Georgia	46*	19 JAN 1999
at sea		20 JAN 1999
Shingle Cove, Coronation Island	55	21 JAN 1999
Point Wild, Elephant Island	59	22 JAN 1999
Paulet Island	59	23 JAN 1999
Portal Point, Charlotte Bay	50	24 JAN 1999
Port Lockroy, Wiencke Island	40	24 JAN 1999
Hydrurga Rocks	57	25 JAN 1999
Whalers Bay, Deception Island	43	25 JAN 1999
Pendulum Cove, Deception Island	43	25 JAN 1999
Drake Passage (at sea)		26-27 JAN 1999
Ushuaia, ARGENTINA		28 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; ▲ = camping

Cruise MOL #ANP18 (Sub-chartered by Aurora Expeditions of Australia)
January/February 1999
52 PAX; 8 STAFF; 19 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 JAN 1999
Drake Passage (at sea)		29-30 JAN 1999
Yankee Harbor, Greenwich Island	56	30 JAN 1999
Brown Bluff, Tabarin Peninsula	56	31 JAN 1999
Fridtjof Sound Tabarin Peninsula	51*	31 JAN 1999
Baily Head, Deception Island	59	01 FEB 1999
Whalers Bay, Deception Island	57	01 FEB 1999
Pendulum Cove, Deception Island	34	01 FEB 1999
Cuerverville Island	57	02 FEB 1999
Port Lockroy, Wiencke Island	52	02 FEB 1999
Pleneau Island	45	03 FEB 1999
Vernadsky Station	53	03 FEB 1999
Curtiss Bay (west coast of Graham Land)	56	04 FEB 1999
Christiania Islands	51	04 FEB 1999
Drake Passage (at sea)		05-06 FEB 1999
Ushuaia, ARGENTINA		07 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; ▲ = camping

Cruise MOL #ANP19 (Sub-chartered by Aurora Expeditions of Australia)
February 1999
52 PAX; 8 STAFF; 19 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		07 FEB 1999
Drake Passage (at sea)		08-09 FEB 1999
Cuerverville Island	57	10 FEB 1999
Port Lockroy, Wiencke Island	56	10 FEB 1999

Jougla Point, Port Lockroy	27	10 FEB 1999
Yalour Islands	57	11 FEB 1999
Vernadsky Station	64	11 FEB 1999
Lallemand Fjord	59	12 FEB 1999
Detaille Island	39	12 FEB 1999
Prospect Point, Graham Land	56	13 FEB 1999
Pleneau Island	08	13 FEB 1999
Pleneau Island	17 [▲]	13 FEB 1999
Bayard Islands	57	14 FEB 1999
Paradise Bay	55	14 FEB 1999
Baily Head, Deception Island	52	15 FEB 1999
Whalers Bay, Deception Island	11	15 FEB 1999
Pendulum Cove, Deception Island	28	15 FEB 1999
Hannah Point, Livingston Island	44	15 FEB 1999
Drake Passage (at sea)		16-17 FEB 1999
Ushuaia, ARGENTINA		18 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; [▲] = camping

Cruise MOL #EAPO4 (Sub-chartered by Aurora Expeditions of Australia)
February/March 1999
51 PAX; 9 STAFF; 19 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		18 FEB 1999
Drake Passage (at sea)		19-20 FEB 1999
Portal Point, Charlotte Bay	56	21 FEB 1999
Danco Island	20	21 FEB 1999
Port Lockroy, Wiencke Island	56	22 FEB 1999
Jougla Point, Port Lockroy	52	22 FEB 1999
Prospect Point, Graham Land	57	23 FEB 1999
Pleneau Island	51	24 FEB 1999
Argentine Island	59 [●]	24 FEB 1999
Bryde Island	17 [●]	25 FEB 1999

Paradise Bay	40	25 FEB 1999
Neko Harbor, Andvord Bay	32	25 FEB 1999
Bailey Head, Deception Island	58	26 FEB 1999
Whalers Bay, Deception Island	46	26 FEB 1999
Pendulum Cove, Deception Island	45	26 FEB 1999
Hannah Point, Livingston Island	69	26 FEB 1999
Drake Passage (at sea)		27-28 FEB 1999
Ushuaia, ARGENTINA		01 MAR 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; ▲ = camping;

● = climbing

Cruise MOL #010399

March 1999

39 PAX; 4 STAFF; 22 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		01 MAR 1999
Drake Passage (at sea)		02-03 MAR 1999
Vernadsky Station	47	04 MAR 1999
Wordie Point, Visokoi Island	43	04 MAR 1999
Pleneau Bay	43*	04 MAR 1999
Petermann Island	40	04 MAR 1999
Port Lockroy, Wiencke Island	34	05 MAR 1999
Suarez Glacier, Paradise Bay	44*	05 MAR 1999
Almirante Brown Station	41	05 MAR 1999
Errera Channel	23*	05 MAR 1999
Hannah Point, Livingston Island	41	06 MAR 1999
Whalers Bay, Deception Island	43	06 MAR 1999
Pendulum Cove, Deception Island	36	06 MAR 1999
Paulet Island	37	07 MAR 1999
Elephant Island		07 MAR 1999
at sea		08-09 MAR 1999
South Georgia		10-12 MAR 1999

at sea	13-15 MAR 1999
Port Stanley, Falkland Islands	16 MAR 1999
Carcass/Westpoint Islands, Falkland Islands	17 MAR 1999
at sea	18 MAR 1999
Ushuaia, ARGENTINA	19 MAR 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

PROFESSOR MULTANOVSKIY

Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

Cruise MUL #121198 (Sub-chartered by Supernova Expeditions)

November 1998

48 PAX; 6 STAFF; 27 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		12 NOV 1998
at sea		13-14 NOV 1998
Aitcho Islands	54	14 NOV 1998
Cuerverville Island	49	15 NOV 1999
Gonzales Videla Station	52	16 NOV 1999
Jouglá Point, Port Lockroy	56	16 NOV 1999
Whaler's Bay, Deception Island	54	17 NOV 1999
Half Moon Island	48	18 NOV 1999
Yankee Harbor, Greenwich Island	47	18 NOV 1998
Jubany Station	36	19 NOV 1998
Turrett Point, King George Island	45	19 NOV 1998
at sea		20-21 NOV 1998
Ushuaia, ARGENTINA		22 NOV 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #221198
November/December 1998
17 PAX; 12 STAFF; 24 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		22 NOV 1998
at sea		23 NOV 1998
Falkland Islands		24-25 NOV 1998
Grytviken Station, South Georgia	35	26 NOV 1998
St. Andrews Bay, South Georgia	32	27 NOV 1998
Royal Bay, South Georgia	25	27 NOV 1998
Drygalski Fjord, South Georgia	Cruising	28 NOV 1998
Larsen Harbor, South Georgia	25*	29 NOV 1998
Gold Harbor, South Georgia	27	29 NOV 1998
Hercules Bay, South Georgia	28	30 NOV 1998
Fortuna Bay, South Georgia	28	30 NOV 1998
Stromness Bay, South Georgia	32	30 NOV 1998
King Haakon Bay, South Georgia	24	01 DEC 1998
Rosita Harbor, South Georgia	28*	02 DEC 1998
Bay of Isles, Albatross Island, South Georgia	27	02 DEC 1998
Elsehul Bay, South Georgia	24*	02 DEC 1998
at sea		03-04 DEC 1998
Falkland Islands		05-07 DEC 1998
at sea		08-09 DEC 1998
Ushuaia, ARGENTINA		10 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #101298
December 1998
36 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		10 DEC 1998
Drake Passage (at sea)		11-12 DEC 1998
Aitcho Island	40	12 DEC 1998
Brown Bluff, Tabarin Peninsula	46	13 DEC 1998
Paulet Island	42	13 DEC 1998
Whalers Bay, Deception Island	44	14 DEC 1998
Pendulum Cove, Deception Island	36	14 DEC 1998
Telefon Bay, Deception Island	43	14 DEC 1998
Almirante Brown Station	41	15 DEC 1998
Suarez Glacier, Paradise Bay	39*	15 DEC 1998
Port Lockroy, Wiencke Island	45	15 DEC 1998
Jouglá Point, Port Lockroy	23	15 DEC 1998
Vernadsky Station	44	16 DEC 1998
Cuverville Island	42	17 DEC 1998
Drake Passage (at sea)		18-19 DEC 1998
Ushuaia, ARGENTINA		20 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #201298 (Sub-chartered by Supernova Expeditions)
December 1998
37 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 DEC 1998
Drake Passage (at sea)		21-22 DEC 1998
Cuverville Island	44	23 DEC 1998
Waterboat Point	46	23 DEC 1998

Port Lockroy, Wiencke Island	44	24 DEC 1998
Ronge' Island	40	25 DEC 1998
Whalers Bay, Deception Island	44	25 DEC 1998
Pendulum Cove, Deception Island	44	25 DEC 1998
Half Moon Island	44	25 DEC 1998
Bellingshausen Station, King George Island	56	26 DEC 1998
Great Wall Station, King George Island	44	26 DEC 1998
Drake Passage (at sea)		27-28 DEC 1998
Ushuaia, ARGENTINA		29 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #291298

December 1998/January 1999
50 PAX; 5 STAFF; 26 CREW

<u>Ports</u>	<u># PAX ¹</u>	<u>Dates</u>
Ushuaia, ARGENTINA		29 DEC 1998
Drake Passage (at sea)		30-31 DEC 1998
Brown Bluff, Tabarin Peninsula	53	01 JAN 1999
Paulet Island	50	01 JAN 1999
Half Moon Island	53	02 JAN 1999
Whalers Bay, Deception Island	53	02 JAN 1999
Pendulum Cove, Deception Island	46	02 JAN 1999
Paradise Bay	53	03 JAN 1999
Cuerverville Island	53	03 JAN 1999
Port Lockroy, Wiencke Island	53	04 JAN 1999
Lemaire Channel	Cruising	04 JAN 1999
Drake Passage (at sea)		05-06 JAN 1999
Ushuaia, ARGENTINA		07 JAN 1999
(repositioning of ship to Port Stanley)		08 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #090199

January 9 –20, 1999

Falkland Islands and South Georgia ONLY (not in Treaty Area)

Cruise MUL #200199

January 1999

49 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		20 JAN 1999
Bleaker Island, Falkland Islands	47	21 JAN 1999
Sea Lion Island, Falkland Islands	53	21 JAN 1999
at sea		22-23 JAN 1999
Paulet Island	50	24 JAN 1999
Brown Bluff, Tabarin Peninsula	44	24 JAN 1999
Half Moon Island	49	25 JAN 1999
Pendulum Cove, Deception Island	39	25 JAN 1999
Whalers Bay, Deception Island	42	25 JAN 1999
Cuverville Island	55	26 JAN 1999
Port Lockroy, Wiencke Island	49	26 JAN 1999
Vernadsky Station	60	27 JAN 1999
Petermann Island	45	27 JAN 1999
Paradise Bay	52*	28 JAN 1999
Neko Harbor, Andvord Bay	47	28 JAN 1999
Drake Passage (at sea)		29-30 JAN 1999
Ushuaia, ARGENTINA		31 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #310199
January/February 1999
49 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		31 JAN 1999
Drake Passage (at sea)		01-02 FEB 1999
Aitcho Island	54	02 FEB 1999
Hannah Point, Livingston Island	52	03 FEB 1999
Whalers Bay, Deception Island	53	03 FEB 1999
Pendulum Cove, Deception Island	49	03 FEB 1999
Paradise Bay	53*	04 FEB 1999
Goudier Island, Port Lockroy	56	04 FEB 1999
Jouglá Point, Port Lockroy	41	04 FEB 1999
Palmer Station, Anvers Island	64	05 FEB 1999
Torgersen Island	41	05 FEB 1999
Pleneau Island	52*	05 FEB 1999
Neko Harbor, Andvord Bay	56	06 FEB 1999
Cuverville Island	53	06 FEB 1999
Cierva Cove	36*	06 FEB 1999
Half Moon Island	53	07 FEB 1999
Penguin Island, King George Bay	Cruising	07 FEB 1999
Point Wild, Elephant Island	Cruising	08 FEB 1999
at sea		09 FEB 1999
Sea Lion/Bleeker Islands, Falklands		10 FEB 1999
Port Stanley, FALKLAND ISLANDS		11 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #110299

February 1999
49 PAX; 4 STAFF; 27 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		11 FEB 1999
at sea		12-14 FEB 1999
Grytviken Station, South Georgia	55	14 FEB 1999
Grytviken Station, South Georgia (a.m.)	56	15 FEB 1999
Grytviken Station, South Georgia (p.m.)	57	15 FEB 1999
Godthul Bay, South Georgia	56	15 FEB 1999
Larsen Harbor, South Georgia	45	16 FEB 1999
Drygalski Fjord, South Georgia	Cruising	16 FEB 1999
St. Andrews Bay, South Georgia	59	16 FEB 1999
Stromness Bay, South Georgia	49	17 FEB 1999
Leith Harbor, South Georgia	54	17 FEB 1999
Husvik Harbor, South Georgia	63	17 FEB 1999
Prince Olav Harbor, South Georgia	52	18 FEB 1999
at sea		19-21 FEB 1999
Port Stanley, FALKLAND ISLANDS		22 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MUL #220299

February/March 1999
36 PAX; 9 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		22 FEB 1999
at sea		23-24 FEB 1999
Aitcho Island	47	25 FEB 1999
Half Moon Island	47	25 FEB 1999
Lemaire Channel	Cruising	26 FEB 1999

Pleneau Island	46*	26 FEB 1999
Port Lockroy, Wiencke Island	45	26 FEB 1999
Whalers Bay, Deception Island	42	27 FEB 1999
Pendulum Cove, Deception Island	28	27 FEB 1999
Hannah Point, Livingston Island	06	27 FEB 1999
at sea		28 FEB 1999
Shingle Cove, Coronation Island	47	01 MAR 1999
at sea		02-03 MAR 1999
Grytviken Station, South Georgia	47	04 MAR 1999
St. Andrews Bay, South Georgia	45	04 MAR 1999
Larsen Harbor, South Georgia	40	05 MAR 1999
Cooper Island, South Georgia	42*	05 MAR 1999
Gold Harbor, South Georgia	41	05 MAR 1999
Albatross Island, South Georgia	44	06 MAR 1999
Elsehul Bay, South Georgia	45	06 MAR 1999
at sea		07-08 MAR 1999
Port Stanley, Falkland Islands		09 MAR 1999
Carcass/Westpoint Islands, Falklands		10 MAR 1999
at sea		11 MAR 1999
Ushuaia, ARGENTINA		12 MAR 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

M/V KAPITAN KHLEBNIKOV

Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

Cruise KLB #AG03 (Sub-chartered by Aurora Expeditions of Australia)
November/December 1998
79 PAX; 10 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Fremantle, AUSTRALIA		18 NOV 1998
at sea		19-23 NOV 1998
Crozet Island		24 NOV 1998
at sea		25-26 NOV 1998
Kerguelen Island		27-28 NOV 1998
Atlas Cove, Heard Island (a.m.)	123	29 NOV 1998
Atlas Cove, Heard Island (p.m.)	51	29 NOV 1998
at sea		30 NOV 1998
Auster Rookery	97 #	01 DEC 1998
Scullin Monolith	98#	02 DEC 1998
Murray Monolith	88*	02 DEC 1998
Cape Darnley	95	03 DEC 1998
Zhongshan Station/Progress 2 Station	92#	04 DEC 1998
Davis Station	101	05 DEC 1998
at sea		06 DEC 1998
Shackleton Ice Shelf	98@	07 DEC 1998
at sea		08 DEC 1998
Casey Station	100	09 DEC 1999
at sea		10-14 DEC 1998
Hobart , AUSTRALIA		15 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; # = helo landing;

@ = helo flight seeing

Cruise KLB #901
December 1998/January 1999
94 PAX; 14 STAFF; 63 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Hobart, AUSTRALIA		15 JAN 1999
at sea		16-17 JAN 1999
Buckles Bay, Macquerie Island	118	18 JAN 1999
Lusitania Bay, Macquerie Island	103*	18 JAN 1999
Sandy Bay, Macquerie Island	111	19 JAN 1999
at sea		20 JAN 1999
Sturge Island	112@	21 JAN 1999
pack ice	109@	22 JAN 1999
Iceberg	108#	22 JAN 1999
Cape Adare	127	23 JAN 1999
Campbell Glacier	107#	24 JAN 1999
Terra Nova Bay Station	128	24 JAN 1999
Inexpressible Island	110	24 JAN 1999
Drygalski Ice Tongue	95	24 JAN 1999
Taylor Dry Valley	114#	25 JAN 1999
Cape Royds, Ross Island	111#	25 JAN 1999
McMurdo Station, Ross Island	140	26 JAN 1999
Scott Base, Ross Island	109#	26 JAN 1999
Cape Evans, Ross Island	112	26 JAN 1999
Franklin Island	102	27 JAN 1999
Coulman Island	107@	28 JAN 1999
Cape Hallett Station	126	28 JAN 1999
Edisto Inlet, Cape Hallett	136	28 JAN 1999
Cape Roget	100	29 JAN 1999
at sea		30 JAN – 02 FEB 1999

Campbell Island	105	03 FEB 1999
Enderby Island	110	04 FEB 1999
at sea		05 – 06 FEB 1999
Hobart, AUSTRALIA		07 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; # = helo landing;

@ = helo flight seeing

Cruise KLB #080299

January/February 1999
58 PAX; 12 STAFF; 65 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Hobart, AUSTRALIA		08 FEB 1999
at sea		09-10 FEB 1999
Buckles Bay, Macquerie Island	71	11 FEB 1999
Sandy Bay, Macquerie Island	62	11 FEB 1999
at sea		12-14 FEB 1999
Cape Adare	70	15 FEB 1999
Cape Hallett	68@	15 FEB 1999
Cape Hallett	52	16 FEB 1999
Coulman Island	61@	16 FEB 1999
Campbell Glacier	66@	17 FEB 1999
Drygalski Glacier	48	17 FEB 1999
Taylor Dry Valley	85#	18 FEB 1999
Cape Evans, Ross Island	76	18 FEB 1999
Cape Royds, Ross Island	64#	18 FEB 1999
McMurdo Station, Ross Island	78	19 FEB 1999
Scott Base, Ross Island	67	19 FEB 1999
Ross Ice Shelf	51#	20 FEB 1999
Bay of Whales	75#	20 FEB 1999
at sea		21 FEB 1999
Russkaya Station	52#	22 FEB 1999

at sea		23-25 FEB 1999
Peter I Island	65	26 FEB 1999
at sea		27 FEB – 01 MAR 1999
Vernadsky Station	82	02 MAR 1999
Petermann Island	63	02 MAR 1999
Goudier Island, Port Lockroy	69	03 MAR 1999
Paradise Bay	62	03 MAR 1999
Whalers Bay, Deception Island	67	04 MAR 1999
Hannah Point, Livingston Island	68	04 MAR 1999
at sea		05-06 MAR 1999
Ushuaia, ARGENTINA		07 MAR 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; # = helo landing;

@ = helo flight seeing

Orient Lines, Inc.

Orient Lines, Inc. of Fort Lauderdale, Florida, conducted 4 cruises to the Antarctic during the 1998-99 season using the Marco Polo.

MARCO POLO

Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

Cruise MP #981219

December 1998/January 1999
573 PAX; 18 STAFF; 342 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Buenos Aires, ARGENTINA		29 DEC 1998
at sea		30-31 DEC 1998

Falkland Islands		01-03 JAN 1999
at sea		04 JAN 1999
Pendulum Cove, Deception Island	622	05 JAN 1999
Port Lockroy, Wiencke Island	614	06 JAN 1999
Waterboat Point	588	07 JAN 1999
Half Moon Island	557	08 JAN 1999
at sea		09-10 JAN 1999
Ushuaia, ARGENTINA		11 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MP #990111

January 1999

587 PAX; 17 STAFF; 339 CREW

<u>Ports</u>	<u># PAX ¹</u>	<u>Dates</u>
Ushuaia, ARGENTINA		11 JAN 1999
at sea		12-13 JAN 1999
Pendulum Cove, Deception Island	612	13 JAN 1999
Port Lockroy, Wiencke Island	679	14 JAN 1999
Waterboat Point	585	15 JAN 1999
Half Moon Island	610	16 JAN 1999
at sea		17-18 JAN 1999
Ushuaia, ARGENTINA		19 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MP #3

January 1999
570 PAX; 19 STAFF; 343 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		19 JAN 1999
at sea		20 21 JAN 1999
Pendulum Cove, Deception Island	610	21 JAN 1999
Port Lockroy, Wiencke Island	611	22 JAN 1999
Waterboat Point	572	23 JAN 1999
Half Moon Island	553	24 JAN 1999
at sea		25-26 JAN 1999
Ushuaia, ARGENTINA		27 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MP#990127

January/February 1999
447 PAX; 17 STAFF; 340 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		27 JAN 1999
at sea		28-29 JAN 1999
Port Lockroy, Wiencke Island	459	30 JAN 1999
Hovgaard Island	447*	30 JAN 1999
Waterboat Point	460	31 JAN 1999
at sea	-	01-09 FEB 1999
Cape Evans, Ross Island	479	10 FEB 1999
Cape Royds, Ross Island	433	11 FEB 1999
at sea		12 FEB 1999

Terra Nova Bay Station	458	13 FEB 1999
at sea		14-17 FEB 1999
Christchurch, NEW ZEALAND		18 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Clipper Cruise Lines

Clipper Cruise Lines, of St. Louis, Missouri, conducted 7 cruises to the Antarctic during the 1998-99 season using the Clipper Adventurer.

CLIPPER ADVENTURER

Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

Cruise CA #20A

December 1998

101 PAX; 12 STAFF; 70 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		02 DEC 1998
Westpoint Islands, Falkland Islands	unknown	03 DEC 1998
at sea		04-05 DEC 1998
Penguin Island	Unknown	06 DEC 1998
Arctowski Station	Unknown	06 DEC 1998
Neko Harbor, Andvord Bay	Unknown	07 DEC 1998
George's Point, Ronge' Island	Unknown	07 DEC 1998

Half Moon Island	Unknown	08 DEC 1998
at sea		09-11 DEC 1998
Ushuaia, ARGENTINA		12 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA #21A
December 1998
83 PAX; 10 STAFF; 68 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		12 DEC 1998
at sea		13-14 DEC 1998
Penguin Island	90	14 DEC 1998
Paulet Island	96	15 DEC 1998
Esperanza Station, Hope Bay	93	15 DEC 1998
Whalers Bay, Deception Island	93	16 DEC 1998
Telefon Bay, Deception Island	68	16 DEC 1998
Cuerverville Island	96	17 DEC 1998
Neko Harbor, Andvord Bay	96	17 DEC 1998
Port Lockroy, Wiencke Island	144	18 DEC 1998
Melchoir Islands	85*	18 DEC 1998
at sea		19-21 DEC 1998
Ushuaia, ARGENTINA		22 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA #22A

December 1998/January 1999
106 PAX; 11 STAFF; 67 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		22 DEC 1998
at sea		23-24 DEC 1998
Hannah Point, Livingston Island	116	25 DEC 1998
Whalers Bay, Deception Island	116	25 DEC 1998
Pendulum Cove, Deception Island	73	25 DEC 1998
Waterboat Point	120	26 DEC 1998
Neko Harbor, Andvord Bay	103	26 DEC 1998
Port Lockroy, Wiencke Island	101	27 DEC 1998
Mikkelsen Harbor, Trinity Island	42	28 DEC 1998
Penguin Island	91	29 DEC 1998
Turret Point, King George Island	93	29 DEC 1998
at sea		30 DEC 1998
New Island, Falkland Islands	90	31 DEC 1998
West Point, Falkland Islands	94	01 JAN 1999
Carcass Island, Falkland Islands	64	01 JAN 1999
Port Stanley, FALKLAND ISLANDS		02 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA #23 (Sub-chartered by Quark Expeditions of Darien,
Connecticut)

January 1999
67 PAX; 10 STAFF; 70 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		02 JAN 1999
Carcass Island, Falkland Islands	71	03 JAN 1999
West Point, Falkland Islands	78	03 JAN 1999

at sea		04-06 JAN 1999
Grytviken Station, South Georgia	74	07 JAN 1999
Hercules Bay, South Georgia	68	07 JAN 1999
Salisbury Plain, South Georgia	74	08 JAN 1999
Albatross Island, South Georgia	73	08 JAN 1999
at sea		09-12 JAN 1999
Cuverville Island	79	13 JAN 1999
Neko Harbor, Andvord Bay	74	13 JAN 1999
Palmer Station, Anvers Island	80	14 JAN 1999
Torgersen Island	70	14 JAN 1999
Dorian Bay, Wiencke Island	69	14 JAN 1999
Jougla Point, Port Lockroy	71	15 JAN 1999
Goudier Island, Port Lockroy	82	15 JAN 1999
Petermann Island	67*	15 JAN 1999
Paradise Bay	73	16 JAN 1999
Melchoir Islands	72*	16 JAN 1999
Baily Head, Deception Island	70	17 JAN 1999
Whalers Bay, Deception Island	70	17 JAN 1999
Pendulum Cove, Deception Island	65	17 JAN 1999
Aitcho Island	76	17 JAN 1999
at sea		18-19 JAN 1999
Ushuaia, ARGENTINA		20 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA #93026 (Sub-chartered by Zeagrahm Expedition of Seattle,
Washington)
January/February 1999
107 PAX; 10 STAFF; 70 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 JAN 1999
at sea		21-22 JAN 1999
Detaille Island	109	23 JAN 1999

Petermann Island	108	24 JAN 1999
Almirante Brown Station, Paradise Bay	110	24 JAN 1999
Palmer Station, Anvers Island	107	25 JAN 1999
Torgersen Island	97	25 JAN 1999
Dorian Bay, Wiencke Island	106	25 JAN 1999
Hannah Point, Livingston Island	108	26 JAN 1999
Baily Head, Deception Island	105	26 JAN 1999
Pendulum Cove, Deception Island	57	26 JAN 1999
Paulet Island	108	27 JAN 1999
Point Wild, Elephant Island	109*	28 JAN 1999
Ferrier Peninsula, Laurie Island	110	29 JAN 1999
at sea		30 JAN 1999
South Georgia		31 JAN -02 FEB 1999
at sea		03-04 FEB 1999
Sea Lion/Bleeker Islands, Falklands		05 FEB 1999
Port Stanley, FALKLAND ISLANDS		06 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA #93027 (Sub-chartered by Quark Expeditions of Darien,
Connecticut)
February 1999
116 PAX; 10 STAFF; 70 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		06 FEB 1999
West Point Islands, Falkland Island	117	07 FEB 1999
Carcass Island	121	07 FEB 1999
at sea		08-09 FEB 1999
Penguin Island	108	10 FEB 1999
Baily Head, Deception Island	97	10 FEB 1999
Whalers Bay, Deception Island	73	10 FEB 1999
Pendulum Cove, Deception Island	58	10 FEB 1999
Palmer Station, Anvers Island	115	11 FEB 1999

Torgersen Island	123	11 FEB 1999
Paradise Bay	97	11 FEB 1999
Port Lockroy, Wiencke Island	107	12 FEB 1999
Jouglá Point, Port Lockroy	111	12 FEB 1999
Petermann Island	82	12 FEB 1999
Neko Harbor, Andvord Bay	77	13 FEB 1999
Cuerverville Island	86	13 FEB 1999
Paulet Island	97	14 FEB 1999
at sea		15-16 FEB 1999
Ushuaia, ARGENTINA		17 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA #93028 (Sub-chartered by Quark Expeditions of Darien,
Connecticut)
February 1999
105 PAX; 10 STAFF; 70 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 FEB 1999
at sea		18-19 FEB 1999
Arctowski Station, King George Island	108	19 FEB 1999
Half Moon Island	106	20 FEB 1999
Aitcho Island	112	20 FEB 1999
Whalers Bay, Deception Island	104	21 FEB 1999
Telefon Bay, Deception Island	108	21 FEB 1999
Pendulum Cove, Deception Island	83	21 FEB 1999
Neko Harbor, Andvord Bay	109	22 FEB 1999
Cuerverville Island	112	22 FEB 1999
Paradise Bay	116	22 FEB 1999
Jouglá Point, Port Lockroy	112	23 FEB 1999

Goudier Island, Port Lockroy	112	23 FEB 1999
at sea		24-26 FEB 1999
Ushuaia, ARGENTINA		27 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Lindblad Special Expeditions

Lindblad Special Expeditions, of New York, New York, conducted 5 cruises to the Antarctic during the 1998-99 season using the Caledonian Star.

CALEDONIAN STAR

Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

Cruise CS#847

December 1998

87 PAX; 13 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Punta Arenas, CHILE		08 DEC 1998
at sea		09-11 DEC 1998
Whalers Bay, Deception Island	105	12 DEC 1998
Telefon Bay, Deception Island	97	12 DEC 1998
Lindblad Cove	87*	12 DEC 1998
Cuerverville Island	104	13 DEC 1998
Port Lockroy, Wiencke Island	105	14 DEC 1998
Hydrurga Rocks	66	14 DEC 1998
Brown Bluff, Tabarin Peninsula	98	15 DEC 1998
Devil Island	90	16 DEC 1998

Paulet Island	64	17 DEC 1998
Coronation Island, South Orkneys	63	18 DEC 1999
at sea		19-20 DEC 1998
South Georgia and Falkland Islands		21-28 DEC 1998
Port Stanley, FALKLAND ISLANDS		29 DEC 1998

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS#848

December 1998 – January 1999

64 PAX; 12 STAFF; 68 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		29 DEC 1998
at sea		30 DEC – 01 JAN 1999
Cape Lookout, Elephant Island	70*	02 JAN 1999
Aitcho Island	78	03 JAN 1999
Yankee Harbor, Greenwich Islands	75	03 JAN 1999
Cuverville Island	78	04 JAN 1999
Paradise Bay	75	04 JAN 1999
Port Lockroy, Wiencke Island	76	05 JAN 1999
Pleneau Island	31	05 JAN 1999
Enterprise Islands	55*	06 JAN 1999
Charlotte Bay	09	06 JAN 1999
Hydrurga Rocks	69	06 JAN 1999
Whalers Bay, Deception Island	73	07 JAN 1999
Telefon Bay, Deception Island	71	07 JAN 1999
Pendulum Cove, Deception Island	43	07 JAN 1999
Snow Hill Island	78	08 JAN 1999
Paulet Island	74	08 JAN 1999
Gourdin Island	61	09 JAN 1999

Penguin Island, South Shetlands	65	09 JAN 1999
at sea		10-12 DEC 1998
Punta Arenas, CHILE		13 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS#901

January 1999

94 PAX; 12 STAFF; 66 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Punta Arenas, CHILE		13 JAN 1999
at sea		14-16 JAN 1999
Aitcho Island	107	17 JAN 1999
Yankee Harbor	105	17 JAN 1999
Fort Point, Greenwich Island	77	17 JAN 1999
Paulet Island	109	18 JAN 1999
Crystal Hill, Trinity Peninsula	94	18 JAN 1999
Snow Hill Island	96	19 JAN 1999
Brown Bluff, Tabarin Peninsula	100	19 JAN 1999
Gourdin Island	96*	20 JAN 1999
Cuverville Island	104	20 JAN 1999
Neko Harbor, Andvord Bay	102	21 JAN 1999
Paradise Bay	103	21 JAN 1999
Port Lockroy, Wiencke Island	112	21 JAN 1999
Pleneau Island	67	22 JAN 1999
Petermann Island	101	22 JAN 1999
Palmer Station, Anvers Island	121	22 JAN 1999
Whalers Bay, Deception Island	106	23 JAN 1999
Telefon Bay, Deception Island	44	23 JAN 1999

Point Wild, Elephant Island	97*	24 JAN 1999
at sea		25-27 JAN 1999
Port Stanley, FALKLAND ISLANDS		28 JAN 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS#902

January/February 1999
94 PAX; 12 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		28 JAN 1999
at sea		29 JAN – 01 FEB 1999
Paulet Island	107	02 FEB 1999
Snow Hill Island	98	03 FEB 1999
James Ross Island	81	03 FEB 1999
Cuerverville Island	105	04 FEB 1999
Neko Harbor, Andvord Bay	77	05 FEB 1999
Paradise Bay	107	05 FEB 1999
Port Lockroy, Wiencke Island	106	05 FEB 1999
Pleneau Island	63	05 FEB 1999
Petermann Island	101	06 FEB 1999
Enterprise Island	101*	07 FEB 1999
Hydrurga Rocks	103	07 FEB 1999
Whalers Bay, Deception Island	104	08 FEB 1999
Telefon Bay, Deception Island	78	08 FEB 1999
Pendulum Cove, Deception Island	49	08 FEB 1999
Hannah Point, Livingston Island	100	08 FEB 1999
At sea		09-11 FEB 1999
Punta Arenas, CHILE		12 FEB 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS#903
February/March 1999
97 PAX; 10 STAFF; 69 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Punta Arenas, CHILE		12 FEB 1999
at sea		13-14 FEB 1999
Fort Point, South Greenwich Island	108	15 FEB 1999
Aitcho Island	98	16 FEB 1999
Whalers Bay, Deception Island	111	16 FEB 1999
Telefon Bay, Deception Island	88	16 FEB 1999
Hydrurga Rocks	106	17 FEB 1999
Pleneau Island	57	18 FEB 1999
Damoy Point, Wiencke Island	111	19 FEB 1999
Port Lockroy, Wiencke Island	116	19 FEB 1999
Cuerverville Island	95	19 FEB 1999
Brown Bluff, Tabarin Peninsula	102	20 FEB 1999
James Ross Island	106	21 FEB 1999
Point Wild, Elephant Island	111*	22 FEB 1999
Coronation Island, South Orkneys	105	23 FEB 1999
at sea		24 FEB 1999
South Georgia and the Falkland Islands		25 FEB –05 MAR 1999
at sea		06 MAR 1999
Ushuaia, ARGENTINA		07 MAR 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Other

In addition, several other organizations plan to arrange/conduct or support tourism activities in the Antarctic during the 1998-99 season. Although some of these organizations are not U.S. based, American citizens are most likely involved in their planned activities and for this reason are reported here.

SHIPBORNE

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

- b) Marine Expeditions of Toronto, Canada, conducted approximately 25 cruises to the Antarctic Peninsula using the Akademik Shuleykin, the Akademik Ioffe and the Disko.

XI. Refuges

Section XI of the Modifications of Activities Planned for 1998-99 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 1998-99 season.

XII. Kill/Capture Permits Issued Pursuant to Annex 2 of the Protocol

The following chart provides information on Antarctic Conservation Act (P.L. 95-541) Permits issued during 1 July 1997 to 30 June 1998.
See also Attachment B, Kill/Captured Forms.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
98-002	01 Oct 97 – 28-Feb-98	Take	Dawson-Lambton Glacier, Filchner Ice Shelf	Collect up to 60 late-hatching Emperor chicks, that would not normally survive, and trans-ship through the U.S. to the Nagoya Aquarium in Japan for scientific purposes, zoological display and education.
98-004	01 Oct 97 – 28 Feb 2000	Taking/Import into U.S.	McMurdo Sound	Temporary attach video cameras to about 15 Weddell seals to study underwater behavior, locomotor performance and energy metabolism during foraging dives. Collect blood and tissue samples for analysis of metabolites and myoglobin.
98-005	01 Oct 97 – 01 Apr 98	Taking/Import into U.S./entry into SSSI	Admiralty Bay (SSSI #8)	Collect samples to study behavior ecology and population biology of Adelie, gentoo and chinstrap penguins and interactions between their avian predators: skuas, gulls, sheath-bills and giant fulmars.

Permit #	Active Dates	Permit Activity	Location	Purpose
98-006	01 Nov 97 – 30 Nov 97	Entry into SSSI	Barwick Valley (SSSI #3)	Obtain hydrological data on lake levels and ice thickness to extend baseline data in Barwick Valley and contribute to ongoing investigations of lake ice dynamics in the Dry Valleys carried out by the LTER Exobiology projects.
98-007	01 Oct 97 – 01 Mar 98	Introduction into Antarctica	Crary Lab, McMurdo Station	Introduction of New Zealand Black Cod to determine the role of antifreeze glycopeptides in freezing avoidance.
98-008	01 Nov 97 – 28 Feb 99	Entry into SPA	Beaufort Island (SPA #5)	Temporary installation of GPS receivers to measure the motion of the island with respect to the Transantarctic Mountains due to mountain building activity and related processes.
98-009	15 Oct 97 – 30 Apr 99	Taking/Import into U.S. /entry into SPA/SSSI	Admiralty Bay (SSSI #8), Litchfield Island (SPA #17), and Biscoe Point (SSSI #20)	Collect shoots and seeds of antarctic grass hair and antarctic perl wort to examine changes in photosynthesis, growth and reduction following warming or exclusion of different UV components.
98-011	01 Oct 97 – 31 Dec 97	Introduction into Antarctica	Crary Lab, McMurdo Station	Introduction of eight species of non-pathogenic microorganisms for bioassay of marine invertebrate extracts.
98-012	01 Oct 97 – 31 Dec 97	Taking/Import into U.S.	McMurdo Sound	Collection of Weddell seal blood and tissue samples for DNA extraction and toxin analysis to supplement research into the paternity and genetic characteristics of the McMurdo populations.
98-013	01 Oct 97 – 31 Dec 97	Taking/Import into U.S./entry into SPA/SSSI	White Island (SSSI #18)	Tag adult Weddell seals and collect blood and tissue samples from 5-8 pups as part of a continuing population biology study.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
98-014	31 Oct 97 – 28 Feb 98	Taking/entry into SSSI	Barwick Valley (SSSI #3)	Conduct mapping project to determine the former extent of a grounded ice sheet in the Ross Sea during the last glacial maximum. Collect tiny samples of fossil algae and carbonates for radiocarbon dating.
98-015	01 Dec 97 – 31 Dec 2000	Entry into SPA	Byers Peninsula (SPA #3)	Install GPS to measure horizontal tectonic motion of the Snow Island-Livingston Island-King George Island block relative to the Antarctic Peninsula and sites in South America.
98-016	25 Nov 97 – 31 Jan 98	Entry into SSSI	Cape Royds (SSSI #1)	Survey Pony Lake and collect soil samples to isolate and identify natural organic material.
98-017	01 Jan 98 – 31 Jan 98	Entry into SPA/SSSI	New College Valley (SPA #20) and Caughley Beach (SSSI #10), Cape Bird	Installation of an Automatic Weather Station (AWS) at Cape Bird to study local climate and provide valuable data for weather forecasting in the Ross Island Area. (Site requires uniform area of 100x100m. The AWS will be installed outside protected areas unless no other suitable site is located.)
98-018	01 Dec 97 – 31 Dec 97	Entry into SSSI	Tramway Ridge (SSSI #11)	Measure temperature of the soil to monitor the volcanic activity of Mount Erebus. Measure quantity of CO ₂ to determine its flux into the atmosphere to gain information on the degassing behavior of the magmatic system under-lying Mount Erebus.
98-019	25 Nov 97 – 31 Mar 99	Taking/Import into U.S.	South Orkney and South Shetland Island, and Antarctic Peninsula area	Collect blood and tissue samples from various species of penguins to compare small genetic differences among populations to determine the distribution of genetic variation and predict the colonization history of populations.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
98-020	07 Jan 98 – 24 Jan 98	Taking/Import into U.S.	Antarctic Peninsula area	Salvage carcasses and remains of penguins, birds and seals for import into the U.S. as teaching aids or for research.
98-021	07 Jan 98 – 31 Dec 2001	Taking/Import into U.S./entry into SSSI	Byers Peninsula (SSSI #6) and Cape Shirreff (SSSI #32)	Conduct census surveys of Antarctic Fur seals and collect blood and tissue samples for continuing studies of Fur seal attendance, energetics, and foraging strategies.

T = Taking; **Imp** = Import into the U.S.; **Intro** = Introduce into Antarctica; **SPA** = Specially Protected Area; **SSSI** = Site of Special Scientific Interest

The following chart provides information on Antarctic Conservation Act (P.L. 95-541) Permits issued during 1 July 1998 to 30 June 1999.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
99-001	01 May 98 - 31 Aug 98	Taking/Import into U.S.	Ross Sea Pack Ice	Capture up to six Emperor penguins to attach a 130g satellite transmitter and obtain stomach samples to determine diet preferences, diving behavior and distribution patterns of individual birds in the Ross Sea.
99-002	01 May 99 - 01 Sept 99	Taking/Import into U.S.	Marguerite Bay, Bellingshausen Sea	Capture Snow Petrels, and Antarctic Petrels and Southern Fulmarsto obtain diet samples. Adelie, Chinstrap, Emperor penguins will be captured, weighed, measured and lavaged. Samples collected will help determine winter feeding conditions that may determine survival of annual cohorts and breeding adult success.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
99-003	25 Sept 98 - 30 Apr 99	Taking/Import into U.S./entry into ASPA	Admiralty Bay (ASPA #128)	Collect samples to study behavior ecology and population biology of Adelie, gentoo and chinstrap penguins and interactions between their avian predators: skuas, gulls, sheath-bills and giant fulmars.
99-004	01 Oct 98 - 28 Feb 2002	Taking/Import into U.S.	McMurdo Sound	Collection of Weddell seal blood and tissue samples for DNA extraction and toxin analysis to supplement research into the paternity and genetic characteristics of the McMurdo populations.
99-005	01 Oct 98 - 28 Feb 2002	Taking/Import into U.S./entry into ASPA	White Island (ASPA #137)	Tag and collect blood and tissue samples from up to 15 Weddell adults and pups as part of a continuing population biology study.
99-006	01 Oct 98 - 28 Feb 99	Introduction into Antarctica	Crary Lab, McMurdo Station	Introduction of New Zealand Black Cod to determine the role of antifreeze glycopeptides in freezing avoidance.
99-007	01 Oct 98 - 30 Apr 2002	Taking/entry into ASPA	Dion Islands (ASPA #107), Litchfield Island (ASPA #113), Avian Island (ASPA #117), and Biscoe Point (ASPA #139)	Census, mark, weigh and collect stomach samples of seabirds in a continuation of a study to assess how annual environmental variability affects seabird diets, breeding success, growth rates, survival and recruitment, behavior, population trends, foraging success and seasonal dispersal.
99-008	01 Oct 98 - 30 Apr 2002	Taking/Import into U.S.	Palmer Station and vicinity	Salvage specimens of various species of seabirds and seals that died of natural causes and import into the U.S. for use in museums and educational institutions.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
99-009	01 Oct 98 - 30 Apr 2002	Taking/Import into U.S.	Palmer Station and vicinity	Census, mark, weigh, collect stomach samples, place radio/satellite transmitters on some individuals to develop foraging effort/dispersal, and use GIS/GPS to map and characterize breeding habitat features of seabirds in a continuation of a study to assess how annual environmental variability affects seabird diets, breeding success, growth rates, survival and recruitment, behavior, population trends, foraging success and seasonal dispersal.
99-010	01 Oct 98 - 01 Apr 2001	Taking/Import into U.S./entry into ASPA	Cape Shirreff, Livingston Island (ASPA #149)	Conduct studies on Antarctic fur seals to determine factors that influence the population dynamics of these animals, especially feeding ecology, reproductive success, growth and condition, demography, and abundance.
99-011	01 Feb 99 - 28 Feb 2004	Entry into ASPA	Cape Evans, Ross Island (ASPA #154), Cape Royds, Ross Island (ASPA #156); and Discovery Hut, Hut Point (ASPA #157)	Enter Antarctic Specially Protected Areas to conduct educational visits to the historic huts for cruise ship passengers.
99-012	05 Nov 98 - 30 Sep 2003	Entry into ASPA	Cape Evans, Ross Island (ASPA #154), Cape Royds, Ross Island (ASPA #156); and Discovery Hut, Hut Point (ASPA #157)	Enter Antarctic Specially Protected Areas to conduct educational visits to the historic huts for U.S. Antarctic Program participants.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
99-013	15 Dec 98 - 01 Feb 2000	Entry into ASPA	Cape Bird, Ross Island (ASPA #116), Cape Royds, Ross Island (ASPA #121), and Cape Crozier (ASPA #124)	Enter Antarctic Specially Protected Areas to establish geographical coordinates and elevations for reselected photoidentifiable points to meet national mapping accuracy standards for a 1:25,000-scale map of the three sites.
99-014	05 Jan 99 - 01 Feb 99	Entry into ASPA	Beaufort Island (ASPA #105), Cape Hallett (ASPA #106), "New College Valley" (ASPA #116), Cryptogram Ridge (ASPA #118), Forlidas Point & Davis Valley (ASPA #119), Cape Royds (ASPA #121), Arrival Heights (ASPA #122), Barwick Valley (ASPA #123), Cape Crozier (ASPA #124), Tramway Ridge (ASPA #130); Canada Glacier (ASPA #131), N.W. White Island (ASPA #137), and, Linneaus Terrace (ASPA #138)	Enter Antarctic Specially Protected Areas to film scientific projects in the field for educational purposes. Access to sites on an opportunistic basis and under constant supervision and direction.

<u>Permit #</u>	<u>Active Dates</u>	<u>Permit Activity</u>	<u>Location</u>	<u>Purpose</u>
99-015	01 Jan 99 - 01 Apr 2000	Entry into ASPA	Western Shore of Admiralty Bay, King George Island	Access to the site for purposes of moving personnel and supplies from ship to the research field camp/station and conduct maintenance and servicing of station facilities and equipment.
99-016	29 Dec 98 - 28 Feb 99	Introduction into Antarctica	Crary Science and Engineering Lab., McMurdo Station	Introduction of molecular biology DNA cloning kits, containing <i>E. coli</i> , for use in experiments conducted at Crary laboratory facilities. All <i>E. coli</i> cultures will be sterilized and destroyed at the end of the project.
99-017	07 Jan 99 - 15 Feb 2001	Entry into ASPA	“New College Valley”, Caughley Beach, Cape Bird (ASPAs #116)	Installation of an Automatic Weather Station (AWS) to conduct weather studies in the McMurdo Sound area to provide valuable data for weather forecasting in the Ross Island region.
99-019	07 Jan 99 - 15 Mar 2003	Entry into ASPA	Cape Evans, Ross Island (ASPAs #154), Cape Royds, Ross Island (ASPAs #156); Discovery Hut, Hut Point (ASPAs #157), and Borchgrevink’s/ Scott Northern Party Hut, Cape Adare	Enter Antarctic Specially Protected Areas to conduct educational visits to the historic huts for cruise ship passengers.
99-020	08 Feb 99 - 15 Mar 2003	Taking	Antarctic Peninsula and adjacent islands	Salvage seabird and mammal carcasses and bones for laboratory studies and educational purposes in museum collections

T = Taking; **Imp** = Import into the U.S.; **Intro** = Introduce into Antarctica; **ASPA** = Antarctic Specially Protected Area (formerly SPAs and SSSI’s)

XIII. Radioactive Materials

Section XIII of the Modifications of Activities Planned for 1998-99 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>
BO-004-O	³ H	³ H - Thymidine		
BO-037-O	³ H ¹⁴ C	³ H - Glutamic acid ³ H - Uridine ¹⁴ C - Glycine Ethyl Ester ¹⁴ C - Tyrosine	Palmer Station	Molecular Adaptations of Microtubule Production in Antarctic Fish
BO-044-O		CORRECTION IN SPELLING: ³ H - Thymidine		
BO-200-O	¹⁴ C	¹⁴ C - Sodium Bicarbonate	R/V LAURENCE M. GOULD: Weddell Sea	Determination of bacteria plankton response to UV radiation in the Weddell Sea and Palmer Station LTER grid.

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
BO-301-O	³ H	³ H - Leucine	McMurdo Station	Metabolic studies of various Antarctic organisms
	³ H	³ H - Glucose		
	³ H	³ H - Thymidine		
	³ H	³ H - Uridine		
	³³ P	³³ P - Alpha-ATP		
	³³ P	³³ P - Gamma-ATP		
	³⁵ S	³⁵ S - Alpha-ATP		
	³⁵ S	³⁵ S - easytag protine labelling		
	¹⁴ C	¹⁴ C - Salycilic acid		
	¹⁴ C	¹⁴ C - Glutamic acid		
	¹⁴ C	¹⁴ C - Alanine		
¹⁴ C	¹⁴ C - Adenosine			

Delete

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
BO-004-O	¹⁵ N	¹⁵ N ₂ , ¹⁵ N ₃ , ¹⁵ NH ₄	McMurdo Station	Metabolic studies of microscopic algae in permanent ice and snow

XIV. Research Rockets

Section XIV of the Modifications of Activities Planned for 1998-99 reports any deviations from the original plans regarding the use of research rockets in Antarctica. No significant changes are noted.

XV. Oceanography- Government

*Section XV of the Modifications of Activities Planned for 1998-99
presents final information regarding United States Antarctic Program
sponsored oceanographic expeditions during the 1998-99 season.*

Note: For actual tracks of the Research Vessels NATHANIEL B. PALMER and
LAURENCE M. GOULD please see Attachment C, Cruise Tracks.

R/V NATHANIEL B. PALMER

The R/ V NATHANIEL B. PALMER made nine cruises during the period of 30
March 1998 through 31 March 1999. Cruises are:

Cruise NBP98-2A

08 April - 26 April 1998: Maintenance period- Lyttelton, New Zealand

Cruise NBP98-3

01 May – 20 June 1998: Studies of sea-ice communities in the Ross Sea region of
Antarctica.

S-325 (Garrison) and S-286 (Jefferies)

Cruise NBP98-4

25 June - 20 July 1998: Transit to Punta Arenas, Chile to pick up Haz/Rad waste
for transport to Seattle, Washington

Cruise NBP98-5

25 July - 19 August 1998: Transit to Seattle, Washington

The R/V NATHANIEL off loaded Haz/Rad waste and, while in port, routine
maintenance projects were accomplished.

Cruise NBP98-6 and NBP98-6A

20 September – 29 October 1998: Pacific Ocean Transit to Honolulu, Hawaii.

ARVOC meeting was held aboard the vessel 01-02 October. n Honolulu. The vessel continued transit to Apia, Western Samoa and multibeam sea trials took place during the transit.

Cruise NBP98-7

02 November - 20 December 1998: The third installment of a multi-disciplinary project investigating the variability of the various aspects of the atmosphere, ocean, and benthic environments in the Ross Sea.

S-216 (Dunbar)

Cruise NBP99-1

26 December 1998 - February 1999: Studies of sea-ice communities in the Ross Sea region of Antarctica.

S-325 (Garrison) and S-286 (Jefferies)

Cruise NBP99-2

12 February - 30 March 1999: Study the timing of ice sheet grounding and retreat from the continental shelf in the Ross Sea region Bellingsham, Amundsen Seas and Lallenmand Fjord during the past glacial episode.

S-083 (Anderson)

Biology & Medicine

	I.D. No.	Institution
Garrison, David (+2)	S-325	University of California, Santa Cruz

Ocean & Climate

	I.D. No.	Institution
Jeffries, Martin (+6)	S-286	University of Alaska, Fairbanks
Dunbar, Robert (+14)	S-216	Rice University

Geology & Geophysics

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

R/V LAURENCE M. GOULD

The R/V LAURENCE M. GOULD made five science cruises and passenger transports to the Antarctic Peninsula during the period of 30 March 1998 through 31 March 1999.

Cruise LMG98-3 and LMG98-3A

26 March 1998 – 5 May 1998: Passenger transports to Palmer Station

Cruise LMG98-4 and LMG98-5

9 May 1998 – 26 July 1998: Passenger transports to Palmer Station. Vessel personnel deployed XBTs while transiting in support of S-260 (Peterson)

Cruise LMG98-6 and LMG98-7

28 July 1998 – 4 September 1998: Maintenance Dry Dock period, Talcahuano

Cruise LMG98-8 and LMG98-8A

10 September 1998 – 3 October 1998: Station Support and COPA opening

Cruise LMG98-9

12 October 1998 – 20 November 1998: Transport of S-002 (Mopper) and S-010 (Neale) field team members to Palmer Station

Cruise LMG98-10

24 November 1998 – 27 December 1998: Vessel sailed south along the Antarctic Peninsula, stopping at various islands and sites en route to Palmer Station to conduct field studies. GO-087-O (Dalziel), GO-097-O (Weins), GO135-O (Dorman), OO-260-O (Peterson), BO-040-O (Trivelpiece)

Cruise LMG99-1

6 January 1999 – 14 February 1999: Bellingshausen Sea BP-046-O (Karl)

Long Term Ecological Research on the Antarctic Marine Ecosystem

Cruise LMG99-2

22 February 1999 – 17 March 1999: Deception Island BO-050-O (K. Smith) and BO-085-O (Felbeck) Dr. Smith's project was a time-series study of the water column and benthic community. Dr. Felbeck's team surveyed and mapped submerged fumeroles and searched for invertebrate macrofauna.

Cruise LMG99-3

21 March 1999 – 24 April 1999: Weddell Sea, King George Island, Palmer Station
Transport two TO-513-O members to Palmer Station for maintenance and
calibration on the ultraviolet-monitoring instruments. BO-036-O (Sidell) and
BO-037-O (Detrich) conducted fishing operations for ongoing studies at Palmer
Station. BO-300-O (Anderson) conducted dredging, coring, and trawling
activities from the vessel as well as collection of water-column samples.

Note: See Appendix III for complete list of scientific personnel for each I.D.
No.

Ocean and Climate

Peterson, Ray	S-260	Scripps Inst. of Oceanography
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Biology & Medical Research

Mopper, Ken (+4)	S-002	Washington State University
Neale, Patrick (+2)	S-010	Smithsonian Environmental Res. Center
Trivelpiece, Wayne (+3)	S-040	Montana State University
Karl, David (+9)	S-046	University of Hawaii
Smith, Kenneth (+9)	BO-050-O	University of California, San Diego
Felback, Horst (+3)	BO-085-O	University of California, San Diego
Sidell, Bruce (+4)	BO-036-O	University of Maine
Detrich, William (+5)	BO-037-O	Northeastern University

Geology & Geophysics

Dalziel, Ian	S-087	University of Texas
Wiens, Douglas(+3)	S-097	Washington University
Dorman, LeRoy(+4)	S-135	University of California, San Diego
Taylor, Douglas	S-097	Washington University

R/V YUZHMOREGEOLOGIYA

The R/V *Yuzhmorgeologiya* was chartered for the fourth consecutive year by the National Oceanic and 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 late March 1999. A large- area survey was conducted on Leg I and again on Leg II; 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" (Water Zone I) and "Bransfield Strait water" (Water Zone IV). Water Zone I dominated the area northwest of Livingston and King George Islands, which included new AMLR stations. A prevailing southwest to northeast flow was observed across the AMLR study area, with an eddy-like feature northwest of Elephant Island.

This was the second full season of seabird research at Cape Shirreff. The breeding populations of chinstrap and gentoo penguins this season were determined to be 7581 chinstrap penguin pairs and 830 gentoo penguin pairs. This represents a slight change from the 1997/98 seas on when there were 7617 and 810 breeding pairs, respectively. Reproductive success of chinstrap penguins was higher and gentoo penguins lower in the 1998/99 season than in the previous season. Penniped studies at Cape Shirreff indicated that Antarctic fur seal pup production increased in 1998/99 over last year. Return rates for adult female fur seals and yearling pups appeared to indicate good over-winter survival. At Palmer Station, Adelie penguin breeding success in 1998/99 decreased, with 1.49 chicks creched per pair compared to 1.58 during the 1997/98 season. Of the 2082 broods censused in January 1999, 61.9% contained two chicks, which was almost no change from the 60.9% report in January 1998. Chick production totaled 5469 chicks this season, a 4.4% decrease relative to the 5722 chicks reported from these colonies in January and February 1998.

AMLR Scientific Personnel

Cruise Leader

Roger P. Hewitt

Southwest Fisheries Science Center

Leg I

Wesley A. Armstrong	Southwest Fisheries Science Center	Leg II
Christopher D. Jones	Southwest Fisheries Science Center	Leg III

Physical Oceanography

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

Phytoplankton

Osmund Holm-Hansen	Scripps Institution of Oceanography	Leg I
Vicente E. Chacon Chade	Instituto de Fomento Pesquero	Leg II
Guillermo Aravena Cuevas	Escuela la Ciencias del mar	Leg I
Erwin Guzman	Univeridad Austral de Chile	Leg I
Christopher D. Hewes	Scripps Institution of Oceanography	Legs I, II
Susana B. Giglio Munoz	Escuela de Ciencias del mar	Leg II
Hardy R. Wellman Ruiz	Universidad Austral de Chile	Leg II

Bioacoustic Survey

Roger P. Hewitt	Southwest Fisheries Science Center	Leg I
Peter Kappes		Legs II, III
Jacqueline Popp		Legs I, II, III

Krill and Zooplankton Sampling

Valerie Loeb	Moss Landing Marine Laboratories	Legs I, II
Wesley A. Armstrong	Southwest Fisheries Science Center	Leg I
Richard Capitan		Leg II

Kim Dietrich		Legs I, II
Michael Force		Legs I, II
Nancy Gong	Moss Landing Marine Laboratories	Legs I, II
Adam Jenkins	Wayward Sailor Maritime	Legs I, II
Darci Lombard	Moss Landing Marine Laboratories	Legs I, II

Bottom Trawl Survey

Christopher D. Jones	Southwest Fisheries Science Center	Leg III
Kim Dietrich		Leg III
Peter Kappes		Leg III
Karl-Hermann Kock	Sea Fisheries Science Center	Leg III
Darci Lombard	Moss Landing Marine Laboratoies	Leg III
Jacqueline Popp		Leg III
David Ramm	CCAMLR	Leg III
Sunhild Wilhelms	Bundesamt fuer Seeschiffahrt und Hydrographie	Leg III

Pinniped Studies

Matthew R. Rutishauser	University of California at Santa Cruz	Leg I
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Cape Shirreff Personnel

Michael E. Goebel	Southwest Fisheries Science Center	25 Nov 98 – 26 Feb 99
Richard Capitan		25 Nov 98 – 10 Feb 99
Terence Carten		25 Nov 98 – 26 Feb 99

Daniel P. Costa	University of California at Santa Cruz	13 Jan 99 – 26 Feb 99
Rennie S. Holt	Southwest Fisheries Science Center	13-29 Jan 99 10-26 Feb 99
Jeremy T. Sterling	University of California at Santa Cruz	25 Nov 98 – 29 Jan 99
Wayne Z. Trivelpiece	Southwest Fisheries Science Center	29 Jan 99 – 26 Feb 99
Matthew R. Rutishauser	University of California at Santa Cruz	29 Jan 99 – 26 Feb 99
Seal Island Personnel		
Rennie S. Holt	Southwest Fisheries Science Center	30 Jan 99 – 09 Feb 99
Wesley A. Armstrong	Southwest Fisheries Science Center	30 Jan 99 – 08 Feb 99
Adam Jenkins	Wayward Sailor Maritime	30 Jan 99 – 08 Feb 99
Kim Dietrich		30 Jan 99 – 08 Feb 99

Palmer Station Personnel

William R. Fraser	Montana State University	29 Dec 98 – 06 Apr 99
Donna L. Patterson	Montana State University	29 Dec 98 – 06 Apr 99
Peter Duley	Montana State University	29 Sep 98 – 15 Feb 99
Matt Irinaga	Montana State University	29 Sep 98 – 15 Feb 99

XVI. Visiting Expeditions

Section XVI of the Modifications of the United States Antarctic Activities Planned for 1998-99 provides information on expeditions visiting U.S. stations during the 1998-99 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>
19 Feb 99	8 hours	58	Kapitan Khlebnikov	Tourist Visit
20 Feb 99	6 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>
20 Nov 98	3 hours	9	Adventure Network International	Tourist Visit
29 Dec 98	3.25 hours	1 plus 1 Swedish skier extracted (skier arrived 21 Dec 98)	Adventure Network International	Tourist Visit
04 Jan 99	2.5 hours	8 plus 1 skier extracted (skier arrived 01 Jan 99)	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>
23 Jan 99	1 hour	5 French skiers extracted (no arrival date available)	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>
16 Dec 98	3.5 hours	2	B.A.S. – Twin Otter	Fuel Cache Establishment
31 Dec 98	6 hours	114	M/V Explorer	Tourist Visit
04 Jan 99	6 hours	10	S/Y Croix Saint Paul II	Tourist Visit
04 Jan 99	6 hours	7	S/Y Viens – Tu?	Tourist Visit
11 Jan 99	4.5 hours	132	M/V World Discoverer	Tourist Visit
14 Jan 99	3.5 hours	82	M/V Clipper Adventurer	Tourist Visit
15 Jan 99	4.5 hours	4	B.A.S. – Twin Otter	Radio Staging
18 Jan 99	4.5 hours	98	M/V Akademik Ioffe	Tourist Visit
19 Jan 99	2.5 hours	3	S/Y Voyou	Tourist Visit
20 Jan 99	3.5 hours	10	S/Y Sarah W. Vorwerk	Tourist Visit
22 Jan 99	4 hours	112	M/V Calenonian Star	Tourist Visit
25 Jan 99	4.5 hours	123	M/V Clipper Adventurer	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>
25 Jan 99	4.16 hours	6	H.M.S. Endurance	Treaty Inspection
25 Jan 99	4.5 hours	58	M/V Akademik Shuleykin	Tourist Visit
28 Jan 99	6 hours	45	I/B Oscar Viel	Chilean Navy/Research
29 Jan 99	19 hours	6	S/Y Golden Fleece	BBC Film Crew
05 Feb 99	4.5 hours	63	M/V Multanovskiy	Tourist Visit
06 Feb 99	3.5 hours	8 hours	S/Y Risque	Tourist Visit
11 Feb 99	3.5 hours	129	M/V Clipper Adventurer	Tourist Visit
18 Mar 99	-	N/A	Abant # 2770	Chilean Sightseeing Flight
21 Mar 99	3 hours	45	R.R.S. Bransfield	B.A.S. Visit

Appendix III

*Names and professional affiliation of personnel engaged in scientific
activities during the reporting period are listed below.*

Scientific Personnel

McMurdo Station Area

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
BO-004-O		
<u>State University of New York at Stony Brook</u>		
Douglas G. Capone	02 Jan 99	28 Jan 99
Edward J. Carpenter	02 Jan 99	28 Jan 99
BO-005-M		
<u>University of Illinois</u>		
Christina C. Cheng-Devries	09 Dec 98	15 Jan 99
Arthur L. De Vries	16 Oct 98	21 Nov 98
Luke J. Hunt	01 Sep 98	15 Dec 98
James A. Logue (United Kingdom)	01 Sep 98	15 Dec 98
Thomas J. Near	04 Dec 98	15 Jan 99
Joy Whitbred	04 Dec 98	15 Jan 99
BO-008-O		
<u>Madigan Army Medical Center</u>		
Samuel H. Case	22 Aug 98	31 Aug 98
Harrell L. Reed	22 Aug 98	31 Aug 98
Kathleen R. Reedy	22 Aug 98	03 Oct 98
Richard L. Seip	22 Aug 98	31 Aug 98
BO-009-O		
<u>University of Minnesota</u>		
Kyler J. Abernathy	13 Oct 98	27 Dec 98
Michael F. Cameron	13 Oct 98	17 Dec 98
Thomas S. Gelatt	13 Oct 98	27 Dec 98
Daniel H. Monson	16 Oct 98	06 Dec 98
Donald B. Siniff	08 Nov 98	26 Nov 98
Brent S. Stewart	20 Nov 98	27 Dec 98
Pamela K. Yochem	20 Nov 98	10 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
BO-012-O		
<u>Creighton University School of Medicine</u>		
Frederick D. Atwood	29 Oct 98	01 Dec 98
Laurel A. Bachle	03 Oct 98	27 Oct 98
Sierra R. Guynn	01 Sep 98	17 Dec 98
David H. Petzel	03 Oct 98	08 Nov 98
Derek D. Smith (United Kingdom)	25 Oct 98	15 Dec 98
Edward J. Wren	01 Sep 98	17 Dec 98
Glenn E. Zwanzig	03 Oct 98	04 Nov 98
GO-014-O		
<u>Southern Methodist University</u>		
Sarah K. Deering	14 Nov 98	30 Dec 98
John W. Goodge	14 Nov 98	30 Dec 98
Paul M. Myrow	14 Nov 98	30 Dec 98
Shaun Norman (United Kingdom)	09 Nov 98	30 Dec 98
BO-017-O		
<u>Texas A&M University</u>		
Randall W. Davis	13 Oct 98	10 Dec 98
Lee A. Fuiman	22 Oct 98	10 Dec 98
William H. Hagey	13 Oct 98	21 Nov 98
Markus Horning (Germany)	13 Oct 98	06 Dec 98
Shane B. Kanatous	01 Sep 98	16 Oct 98
Suzanne Kohin	01 Sep 98	30 Oct 98
Randolph C. Skrovan	13 Oct 98	10 Dec 98
Theresa M. Williams	13 Oct 98	10 Dec 98
BO-031-O		
<u>H.T. Harvey & Associates</u>		
Connie Adams	04 Dec 98	01 Feb 99
David G. Ainley	04 Dec 98	01 Feb 99
Grant Ballard (Virgin Islands, US)	04 Dec 98	01 Feb 99
Ian Gaffney	04 Dec 98	01 Feb 99
Sacha Heath	04 Dec 98	01 Feb 99
Christine A. Ribic	15 Dec 98	14 Jan 99
Sophie W. Webb	04 Dec 98	14 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
AB-033-O		
<u>California Institute of Technology</u>		
Andrea Boscalari (Italy)	02 Nov 98	30 Dec 98
Brendan P. Crill	01 Nov 98	16 Jan 99
Paolo De Bernadis (Italy)	01 Nov 98	16 Jan 99
Philip C. Farese	01 Nov 98	06 Dec 98
Armondo Iacoangeli (Italy)	01 Nov 98	12 Nov 98
Andrew E. Lange	09 Dec 98	17 Dec 98
Siliva Masi (Italy)	01 Nov 98	16 Jan 99
Peter V. Mason	01 Nov 98	05 Jan 99
Philip D. Mauskopf	14 Nov 98	05 Jan 99
Thomas E. Montroy	30 Oct 98	16 Jan 99
Calvin B. Netterfield	30 Oct 98	12 Jan 99
Enzo Pascale (Italy)	30 Oct 98	07 Jan 99
Francesco Piacentini (Italy)	01 Nov 98	22 Dec 98
Francesco Pongetti (Italy)	01 Nov 98	30 Dec 98
John E. Ruhl	30 Oct 98	22 Dec 98
S-035		
<u>Montana State University</u>		
Britta D. Hardesty	03 Jan 99	01 Feb 99
BM-042-B		
<u>Desert Research Institute</u>		
Derek R. Mueller (Canada)	14 Nov 98	05 Feb 99
BM-042-F		
<u>Portland State University</u>		
Patrick Bardel	03 Jan 99	01 Feb 99
Andrew G. Fountain	03 Jan 99	03 Feb 99
Paul J. Langevin (Canada)	01 Nov 98	03 Feb 99
Karen J. Lewis	19 Nov 98	03 Feb 99
BM-042-L		
<u>University of Alabama</u>		
Elizabeth Y. Graham	14 Nov 98	17 Dec 98
Carmen A. Nezat	14 Nov 98	05 Jan 99
Kathleen A. Welch	16 Oct 98	08 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
BM-042-M		
<u>University of Colorado</u>		
Arne Bomblies (Germany)	01 Nov 98	03 Feb 99
Michael N. Gooseff	29 Oct 98	01 Feb 99
Diane M. Mcknight	14 Jan 99	23 Jan 99
Wilifrid J. Sadler	04 Dec 98	29 Dec 98
Laura E. Scott	23 Dec 98	15 Jan 99
BM-042-P		
<u>Montana State University</u>		
Michele F. Secrest	13 Oct 98	12 Jan 99
Laura H. Spinney	13 Oct 98	30 Dec 98
BM-042-W		
<u>Colorado State University</u>		
Andrew N. Parsons (United Kingdom)	02 Jan 99	21 Jan 99
Dorota Porazinska	02 Jan 99	21 Jan 99
Diana H. Wall	02 Jan 99	19 Jan 99
BO-043-O		
<u>New York State Department of Health</u>		
Samuel S. Bowser	16 Oct 98	14 Dec 98
Douglas H. Coons	16 Oct 98	17 Dec 98
Gogi F. Gwardschaladse	16 Oct 98	17 Dec 98
Roy K. Kinoshita	16 Oct 98	17 Dec 98
Jan W. Pawlowski (Switzerland)	02 Nov 98	01 Dec 98
Robert W. Sanders	16 Oct 98	15 Dec 98
William L. Stockton	02 Nov 98	06 Dec 98
BO-044-O		
<u>Desert Research Institute</u>		
Ed Adams	29 Oct 98	06 Dec 98
Nina M. Baum	29 Oct 98	15 Dec 98
Elissa L. Elliott	29 Oct 98	21 Nov 98
Christian H. Fritsen	29 Oct 98	01 Dec 98
John C. Priscu	29 Oct 98	01 Dec 98
James A. Raymond	22 Oct 98	10 Dec 98
Johnny M. Sappington	22 Oct 98	15 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
GL-049-A		
<u>Ohio State University</u>		
Sandra Passchier (Netherlands)	22 Oct 98	10 Dec 98
GL-049-B		
<u>Ohio State University</u>		
Mauro Alberti (Italy)	29 Oct 98	14 Dec 98
Matthew G. Curren	16 Oct 98	06 Dec 98
Thomas R. Janecek	16 Oct 98	06 Dec 98
Sonia Sandroni	29 Oct 98	22 Dec 98
Peter N. Webb	16 Oct 98	10 Dec 98
GL-051-O		
<u>University of Nebraska-Lincoln</u>		
Steve Bohaty	16 Oct 98	10 Dec 98
Rusty Divine	16 Oct 98	06 Dec 98
Reed P. Scherer	16 Oct 98	06 Dec 98
Marco Taviani	22 Oct 98	10 Dec 98
GO-053-O		
<u>University of Washington</u>		
Raymond Fletcher	02 Jan 99	21 Jan 99
David A. Gilichinsky (Russia)	02 Jan 99	05 Feb 99
Bernard Hallet (Belgium)	02 Jan 99	21 Jan 99
Christopher P. McKay	02 Jan 99	14 Jan 99
Michael T. Mellon	12 Dec 98	14 Jan 99
Jaakko Putkonen (Finland)	12 Dec 98	01 Feb 99
Ronald S. Sletten	12 Dec 98	05 Feb 99
Victor A. Sorokovikov (Russia)	02 Jan 99	05 Feb 99
GL-055-O		
<u>University of Utah</u>		
Jason D. Brink	25 Oct 98	10 Dec 98
Erich Scholz	25 Oct 98	01 Dec 98
GL-057-O		
<u>Florida State University</u>		
Guiliana Villa	22 Oct 98	10 Dec 98
David K. Watkins	22 Oct 98	06 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
GL-058-O		
<u>Case Western Reserve University</u>		
Paul Benoit	04 Dec 98	23 Jan 99
Nancy L. Chabot	04 Dec 98	23 Jan 99
Diane E. Dimassa	04 Dec 98	28 Jan 99
Ralph P. Harvey	04 Dec 98	29 Dec 98
Barry H. Lopez	04 Dec 98	28 Jan 99
Scott A. Sandford	23 Dec 98	23 Jan 99
John W. Schutt	19 Nov 98	03 Feb 99
GO-059-O		
<u>University of Arizona</u>		
Suzanne L. Baldwin	28 Dec 98	01 Feb 99
Paul G. Fitzgerald (New Zealand)	28 Dec 98	01 Feb 99
Charles B. Hobbs (New Zealand)	28 Dec 98	01 Feb 99
Elizabeth M. Hobbs (New Zealand)	28 Dec 98	01 Feb 99
GO-062-O		
<u>Ohio State University</u>		
Peter Braddock (New Zealand)	09 Nov 98	05 Jan 99
John P. Encarnacion	25 Nov 98	05 Jan 99
Timothy S. Paulsen	13 Oct 98	05 Jan 99
Michael K. Watkeys (United Kingdom)	23 Nov 98	05 Jan 99
GO-063-O		
<u>University of New Hampshire</u>		
Steven A. Arcone	09 Nov 98	10 Dec 98
Karl A. Clarhall (Sweden)	08 Nov 98	17 Dec 98
Allan J. Delaney	01 Nov 98	10 Dec 98
Michael L. Prentice	08 Nov 98	10 Dec 98
Anna Sidenbladh (Sweden)	08 Nov 98	17 Dec 98
Jodie Strasser	01 Nov 98	20 Nov 98
GL-064-O		
<u>University of Nebraska</u>		
Richard M. Kettler	29 Oct 98	10 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
GL-070-O		
<u>Ohio State University</u>		
Peitro Armienti (Italy)	08 Nov 98	06 Dec 98
Michele Claps (Italy)	25 Oct 98	10 Dec 98
Lawrence A. Krissek	16 Oct 98	10 Dec 98
Ross D. Powell (New Zealand)	16 Oct 98	10 Dec 98
Franco Talarico	22 Oct 98	22 Dec 98
GL-075-O		
<u>University of California-Davis</u>		
Fulvia Aghib (Italy)	22 Oct 98	11 Dec 98
Fabio Florindo (Italy)	25 Oct 98	10 Dec 98
Hannes Grobe (Germany)	02 Nov 98	20 Nov 98
Daniel Juarez	22 Oct 98	01 Dec 98
Karen H. Pearce	18 Nov 98	22 Nov 98
Andrew P. Roberts (New Zealand)	25 Nov 98	10 Dec 98
Leonardo Sagnotti (Italy)	25 Oct 98	10 Dec 98
Elizabeth A. Trummel	29 Oct 98	10 Dec 98
James M. Viele	29 Oct 98	01 Dec 98
Kenneth L. Verosub	08 Nov 98	20 Nov 98
Gary S. Wilson (New Zealand)	25 Oct 98	10 Dec 98
GO-078-B		
<u>US Geological Survey</u>		
Gregory T. Aylward	22 Oct 98	03 Feb 99
Donald Byrd	30 Oct 98	28 Jan 99
David Frick	02 Jan 99	21 Jan 99
Jim Merriam	14 Jan 99	28 Jan 99
Jeffery C. Roberts	19 Nov 98	29 Dec 98
Donn Simpson	19 Nov 98	29 Dec 98
GO-078-A		
<u>Albuquerque Seismological Laboratory</u>		
Harold L. Huhs	22 Oct 98	26 Nov 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
GL-079-O		
<u>Ohio State University</u>		
Ghodratollah B. Baradaran-Rafat (Germany)	13 Oct 98	22 Oct 98
Eric T. Plankell	13 Oct 98	06 Dec 98
Terry J. Wilson	13 Oct 98	11 Dec 98
GL-080-O		
<u>Louisiana State University</u>		
Rosemary A. Askin (New Zealand)	22 Oct 98	10 Dec 98
Barbara A. Mcleod	22 Oct 98	10 Dec 98
GO-082-O		
<u>California Institute of Technology</u>		
Jose J. Landeros	19 Nov 98	18 Dec 98
Carol Raymond	19 Nov 98	22 Dec 98
" "	03 Feb 99	08 Feb 99
BO-086-O		
<u>Ohio State University</u>		
Paul A. Berkman	12 Nov 98	15 Jan 99
David W. Garton	12 Nov 98	15 Jan 99
GF-088-O		
Robert P. Meyer	14 Nov 98	09 Jan 99
Michael J. Roberts (New Zealand)	12 Nov 98	09 Jan 99
Christine Siddoway	14 Nov 98	09 Jan 99
Frederik M. Van Der Wateren (Netherlands)	14 Nov 98	09 Jan 99
Anne L. Whitehead	14 Nov 98	09 Jan 99
GO-090-O		
<u>Incorporated Research Institution for Seismology</u>		
William D. Smythe	23 Nov 98	15 Dec 98
GS-098-O		
<u>University of Texas-Austin</u>		
Ryan Biggs	19 Nov 98	01 Feb 99
Donald D. Blankenship	20 Nov 98	18 Dec 98
Massimo Chiappini (Italy)	25 Nov 98	22 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Laura M. Connor	02 Nov 98	22 Dec 98
Marcy B. Davis	19 Nov 98	03 Feb 99
Jeremy Edwards	02 Nov 98	01 Feb 99
John S. Gerboc	02 Nov 98	01 Feb 99
Kenneth H. Griffiths	30 Oct 98	05 Feb 99
John W. Holt	20 Nov 98	01 Feb 99
Effie Jarrett	12 Dec 98	03 Feb 99
Lena Krutikov	01 Nov 98	03 Feb 99
Victoria E. Langenheim	12 Dec 98	03 Feb 99
Rowena B. Lohman	18 Dec 98	03 Feb 99
Mark Maybee	20 Nov 98	18 Dec 98
Matthew E. Peters	02 Nov 98	22 Dec 98
Steven L. Terry	02 Nov 98	01 Feb 99
Martha H. Young	02 Nov 98	05 Feb 99
AO-105-O		
<u>University of Michigan</u>		
Alexei Maulini (Russia) (winter over)	20 Nov 98	
AO-106-O		
<u>Stanford University</u>		
William J. Trabucco	10 Jan 99	16 Jan 99
AO-107-O		
<u>Instituto De Fisica Dell'Atmosfera</u>		
Francesco Cairo (Italy)	22 Aug 98	31 Aug 98
AO-111-O		
<u>University of Maryland</u>		
Larry F. Lutz	10 Jan 99	19 Jan 99
Allan T. Weatherwax	10 Jan 99	19 Jan 99
AO-113-0		
<u>University of Colorado-Boulder</u>		
Patricia Franke	20 Jan 99	01 Feb 99
David C. Fritts	20 Jan 99	01 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
BM-118-O		
<u>Desert Research Institute</u>		
R. Richard Costello	02 Jan 99	03 Feb 99
Peter T. Doran (Canada)	02 Jan 99	01 Feb 99
Marianne S. Douglas (Canada)	02 Jan 99	03 Feb 99
GF-121-O		
<u>University of California, Santa Barbara</u>		
Andrea Donnellan	19 Nov 98	29 Dec 98
Bruce P. Luyendyk	30 Nov 98	22 Dec 98
Mark A. Smith	30 Nov 98	29 Dec 98
AO-131-O		
<u>University of Wyoming</u>		
Terry L. Deshler	08 Feb 99	17 Feb 99
Jason A. Gonzales	22 Aug 98	03 Oct 98
Donal L. Lukens	22 Aug 98	08 Nov 98
Bruno Nardi	22 Aug 98	03 Oct 98
Elizabeth N. Sinclair	22 Aug 98	02 Nov 98
AO-137-O		
<u>State University of New York</u>		
Robert L. De Zafra	22 Aug 98	13 Oct 98
Giovanni Muscari (Italy)	22 Aug 98	13 Oct 98
AO-140-O		
University of Wisconsin		
Lucio Piccirillo	24 Nov 98	28 Jan 99
AB-145-O		
<u>National Scientific Balloon Facility</u>		
Dwight M. Bawcom	15 Dec 98	12 Jan 99
Donald G. Bunt	04 Dec 98	12 Jan 99
Mark D. Cobble	23 Nov 98	30 Dec 98
Robert M. Crabill	12 Dec 98	14 Jan 99
Randall L. Henderson	23 Nov 98	30 Dec 98
Surendra C. Makam (India)	30 Nov 98	12 Jan 99
Charles M. Mayfield	04 Dec 98	30 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Steven E. Peterzen	30 Oct 98	19 Jan 99
Titus S. Sigler	20 Nov 98	12 Jan 99
Brian D. Stilwell	20 Nov 98	06 Dec 98
David W. Sullivan (Australia)	30 Nov 98	30 Dec 98
Robin P. Whiteside	04 Dec 98	30 Dec 98

TI-150-B

University of Nebraska-Lincoln

Louise Albershardt	19 Nov 98	07 Jan 99
Phillip Austin	08 Nov 98	12 Jan 99
Beth Bergeron	30 Oct 98	29 Dec 98
Dylan Bradley	30 Oct 98	29 Dec 98
Patrick R. Cassidy	09 Nov 98	03 Feb 99
Mathew A. Cerniway	30 Oct 98	03 Feb 99
Michelle C. Day	30 Oct 98	03 Feb 99
Todd Dupont	30 Oct 98	01 Feb 99
Rhonda M. Ecker	30 Oct 98	03 Feb 99
Nancy Ford	30 Oct 98	03 Feb 99
Terrance L. Gacke	08 Nov 98	08 Jan 99
John D. Giles	30 Oct 98	03 Feb 99
Brian Giroux	30 Oct 98	03 Feb 99
Walter H. Hancock	08 Nov 98	01 Feb 99
Carey Hoefler	30 Oct 98	03 Feb 99
Michael S. Jayred	30 Oct 98	04 Nov 98
Karl C. Kuivinen	30 Oct 98	27 Dec 98
Jay D. Kyne	15 Dec 98	07 Jan 99
Jed B. Lewis	30 Oct 98	03 Feb 99
Craig Massey	14 Jan 99	03 Feb 99
Byron R. Parizek	30 Oct 98	12 Jan 99
John F. Rhoades	01 Nov 98	03 Feb 99
David C. Sanderson	30 Oct 98	08 Jan 99
Patrick Dean Smith	15 Dec 98	08 Jan 99
Matthew Spencer	30 Oct 98	12 Jan 99
Mark A. Wumkes	08 Nov 98	08 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
II-152-O		
<u>Desert Research Institute</u>		
Gregg W. Lamorey	02 Nov 98	01 Feb 99
Kendrick C. Taylor	02 Nov 98	17 Dec 98
II-155-O		
<u>Cold Regions Research and Engineering Laboratory</u>		
Mary R. Albert	08 Nov 98	01 Dec 98
Edward F. Shultz	08 Nov 98	01 Dec 98
IO-156-O		
<u>University of Maine</u>		
George H. Denton	03 Jan 99	28 Jan 99
Adam R. Lewis	04 Dec 98	01 Feb 99
Andrew M. Lorrey	04 Dec 98	01 Feb 99
David R. Marchant	15 Dec 98	14 Jan 99
Eric J. Moore	15 Dec 98	07 Jan 99
David E. Sugden	03 Jan 99	28 Jan 99
IO-157-O		
<u>California Institute of Technology</u>		
Matthew P. Bachmann	14 Nov 98	05 Feb 99
Robin J. Bolsey	08 Nov 98	01 Feb 99
Ginny A. Catania (Canada)	14 Nov 98	05 Feb 99
Hermann Engelhardt (Germany)	08 Nov 98	05 Feb 99
Benjamin T. Farrow	14 Nov 98	05 Feb 99
Gregory P. Gerbi	14 Nov 98	03 Feb 99
Shulamit Gordon (United Kingdom)	14 Nov 98	05 Feb 99
Barclay W. Kamb	14 Nov 98	28 Jan 99
Beth A. Pratt	14 Nov 98	05 Feb 99
Hans F. Schwaiger	14 Nov 98	03 Feb 99
II-160-O		
<u>US Geological Survey</u>		
Joan J. Fitzpatrick	14 Nov 98	14 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
IO-163-O		
Maurice E. Conway (New Zealand)	30 Oct 98	17 Dec 98
Nadine A. Nereson	30 Oct 98	17 Dec 98
Charles F. Raymond	30 Oct 98	17 Dec 98
IO-164-O		
<u>University of California, San Diego</u>		
Eric W. Husmann	23 Dec 98	23 Jan 99
John L. Morack	23 Dec 98	14 Jan 99
Erin C. Pettit	23 Dec 98	21 Jan 99
IO-169-O		
<u>Ohio State University</u>		
Samuel Bosshard (New Zealand)	30 Oct 98	14 Feb 99
Vandy B. Spikes	30 Oct 98	15 Dec 98
Ian M. Whillans (Canada)	30 Oct 98	15 Dec 98
Michael J. Willis (United Kingdom)	30 Oct 98	01 Feb 99
Anton F. Woperies (New Zealand)	30 Oct 98	15 Dec 98
IO-173-O		
<u>National Aeronautics and Space Administration/Goddard Space Flight Center</u>		
Robert A. Bindschadler	07 Jan 99	05 Feb 99
Stephen F. Price	07 Jan 99	05 Feb 99
Patricia L. Vornberger	07 Jan 99	05 Feb 99
GO-180-O		
<u>Pennsylvania State University</u>		
Sridhar Anandakrishnan	30 Oct 98	01 Dec 98
Peter G. Burkett	30 Oct 98	17 Dec 98
Richard C. Henry	30 Oct 98	15 Dec 98
Bruce R. Long	30 Oct 98	15 Dec 98
Donald E. Voigt	30 Oct 98	15 Dec 98
" " "	20 Jan 99	08 Feb 99
GO-182-O		
<u>New Mexico Institute of Mining and Technology</u>		
Richard P. Esser	12 Nov 98	09 Jan 99
Philip R. Kyle	12 Nov 98	30 Dec 98
John Roberts (New Zealand)	12 Nov 98	09 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
OO-208-O		
<u>University of Alaska, Fairbanks</u>		
Robert G. Greenler	08 Nov 98	15 Dec 98
Jarmo A. Moilanen (Finland)	30 Nov 98	11 Feb 99
Marko Riikonen	18 Dec 98	11 Feb 99
OO-263-O		
<u>University of Alaska</u>		
Anthony P. Worby (Australia)	28 Jan 99	05 Feb 99
Henry Stone	02 Jan 99	28 Jan 99
IO-277-O		
<u>Albion College</u>		
Nelia W. Dunbar	30 Nov 98	23 Jan 99
William C. Mcintosh	30 Nov 98	23 Jan 99
Anthony M. Teeling (New Zealand)	30 Nov 98	23 Jan 99
Thomas I. Wilch	30 Nov 98	19 Jan 99
OO-283-M		
<u>University of Wisconsin</u>		
Sarah B. Das	05 Jan 99	01 Feb 99
Robert E. Holmes	05 Jan 99	03 Feb 99
GO-295-O		
<u>UNAVCO/UCAR</u>		
Bjorn L. Johns	22 Aug 98	01 Sep 98
" " "	29 Oct 98	15 Dec 98
Oivind Ruud (Norway)	25 Nov 98	11 Feb 99
BO-301-O		
Susanna T. Airaksinen (Finland)	28 Dec 98	01 Feb 99
Catherine E. Allen-Copley (United Kingdom)	03 Jan 99	03 Feb 99
Colin J. Brauner (Canada)	03 Jan 99	03 Feb 99
Claire M. Carpenter	28 Dec 98	03 Feb 99
Jose R. De La Torre	03 Jan 99	03 Feb 99
Harry W. Detrich, III	11 Jan 99	11 Feb 99
Theodore R. Dudley	28 Dec 98	03 Feb 99
Terence J. Evens	28 Dec 98	01 Feb 99
Daphne G. Fautin	03 Jan 99	03 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Rachel A. Foster	03 Jan 99	03 Feb 99
Jeffrey D. Gawronski	03 Jan 99	03 Feb 99
Lynda Goff	03 Jan 99	15 Jan 99
Lara J. Hansen	28 Dec 98	01 Feb 99
Anthony J. Hickey (New Zealand)	03 Jan 99	03 Feb 99
Bettina C. Hitzfeld (Germany)	03 Jan 99	03 Feb 99
Jennifer R. Hoffman	28 Dec 98	01 Feb 99
Gretchen E. Hofmann	15 Jan 99	01 Feb 99
Wade H. Jeffrey	03 Jan 99	01 Feb 99
Mark D. Johnson	28 Dec 98	01 Feb 99
Deneb Karentz	28 Dec 98	03 Feb 99
Jason P. Kase	28 Dec 98	05 Feb 99
Ruth E. Ley (United Kingdom)	03 Jan 99	03 Feb 99
Donal T. Manahan (Ireland)	03 Jan 99	28 Jan 99
Adam G. Marsh	28 Dec 98	05 Feb 99
Craig J. Marshall (New Zealand)	15 Jan 99	28 Jan 99
Robert Maxson	11 Jan 99	01 Feb 99
Davorin Medakovic (Croatia)	03 Jan 99	03 Feb 99
Michael Moore (Norway)	28 Dec 98	05 Feb 99
Alison E. Murray	28 Dec 98	05 Feb 99
Rachael A. Ream	28 Dec 98	03 Feb 99
Joshua J. Rosenthal	28 Dec 98	03 Feb 99
Sabine G. Schultes (Canada)	28 Dec 98	01 Feb 99
Brad A. Seibel	03 Jan 99	03 Feb 99
George N. Somero	28 Dec 98	15 Jan 99
Jonathon Stillman	28 Dec 98	05 Feb 99
Florence Thomas	03 Jan 99	03 Feb 99
Alexander Vershinin (Russia)	28 Dec 98	01 Feb 99
Giselle Walker (Australia)	03 Jan 99	03 Feb 99
Armando Zea (Canada)	03 Jan 99	08 Jan 99
Giuseppe Zuccarello (United Kingdom)	03 Jan 99	01 Feb 99

EO-302-O

University of North Carolina

James E. Byers	22 Oct 98	13 Nov 98
Kathleen E. Conlan (Canada)	03 Oct 98	22 Dec 98
John H. Grabowski	22 Oct 98	27 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Stacy L. Kim	22 Oct 98	17 Dec 98
Hunter S. Lenihan	22 Oct 98	14 Dec 98
Christian M. McDonald	01 Sep 98	15 Dec 98

Vostock Station

S-161

University of Miami

Nikolay Kondratyev (Russia)

27 Nov 98 28 Jan 99

Terra Nova Bay Station

S-005

University of Illinois

Eva Pisano

Alexandre Krassilev (Russia) (winter over)

03 Jan 99 11 Feb 99
19 Nov 98

South Pole Station Area

BO-004-O

State University of New York

Maria P. Heredia (Chile)

02 Jan 99 28 Jan 99

GO-052-M

US Geological Survey

Graeme H. Blick (New Zealand)

Robert P. Glover

Larry D. Hothem

Jerry L. Mullins

Nancy K. Russell

Janet W. Thomson (United Kingdom)

04 Dec 98 15 Jan 99
04 Dec 98 08 Feb 99
12 Dec 98 05 Feb 99
14 Jan 99 05 Feb 99
04 Dec 98 01 Feb 99
14 Jan 99 05 Feb 99

AO-101-O

Bell Laboratories

Lester Medford

10 Jan 99 28 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
AO-102-O		
<u>University of New Hampshire</u>		
Mark J. Engebretson	10 Jan 99	19 Jan 99
AO-108-O		
<u>Stanford University</u>		
Maria Salvati	01 Nov 98	21 Nov 98
AO-109-O		
<u>University of Delaware</u>		
James A. Hinton (United Kingdom)	14 Nov 98	15 Dec 98
Katie Rochester (United Kingdom)	14 Nov 98	19 Jan 99
Glenn M. Spiczak	10 Jan 99	12 Feb 99
AO-110-O		
<u>University of Washington</u>		
Kerry A. Deutsch	20 Jan 99	01 Feb 99
Gonzalo Hernandez (Costa Rica)	20 Jan 99	01 Feb 99
Roger W. Smith (United Kingdom)	20 Jan 99	01 Feb 99
AO-117-O		
<u>National Institute of Polar Research</u>		
Makoto Taguchi (Japan)	20 Nov 98	26 Nov 98
AO-120-O		
<u>University of Delaware</u>		
Leonard M. Shulman	10 Jan 99	19 Jan 99
AA-123-O		
<u>University of Kansas</u>		
Dave Besson	15 Dec 98	14 Jan 99
George Frichter	02 Jan 99	14 Jan 99
Ilia V. Kravchenko (Ukraine)	15 Dec 98	14 Jan 99
AO-126-O		
<u>National Aeronautics and Space Administration Langley Research Center</u>		
James R. Baker	03 Jan 99	28 Jan 99
Jonathan A. Rall	03 Jan 99	28 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
AO-127-O		
<u>University of Illinois-Urbana</u>		
George C. Papen	20 Nov 98	26 Nov 98
Gary R. Swenson	10 Jan 99	19 Jan 99
AA-130-O		
<u>University of Wisconsin</u>		
Eduardo C. Andres (Argentina)	13 Nov 97	23 Nov 98
Xinhua Bai (winter over)	29 Oct 98	
Steven W. Barwick	11 Jan 99	12 Feb 99
Ryan C. Bay	03 Jan 99	16 Jan 99
Adam Bouchta (Sweden)	30 Nov 98	05 Jan 99
Sue A. Bowman	03 Jan 99	03 Feb 99
Douglas Cowen	02 Jan 99	12 Jan 99
Tyce R. Deyoung	11 Jan 99	12 Feb 99
Patrik H. Ekstrom (Sweden)	09 Dec 98	07 Jan 99
Anna K. Gronlund (Sweden)	15 Dec 98	05 Jan 99
Gary C. Hill (Australia)	20 Nov 98	17 Dec 98
Bruce R. Koci	12 Dec 98	07 Jan 99
Matthais J. Leuthold (Germany)	30 Nov 98	12 Jan 99
Par T. Lindahl (Sweden)	09 Nov 98	10 Dec 98
Julio C. Martino (Sweden)	09 Nov 98	10 Dec 98
Predrag Miocinovic (Croatia)	14 Jan 99	12 Feb 99
Steffen Richter (Germany)	01 Dec 97	13 Nov 98
" "	15 Jan 99	12 Feb 99
Phillip Romenesko	18 Dec 98	19 Jan 99
Torsten Schmidt (Germany)	11 Jan 99	12 Feb 99
Robert K. Schwarz (Germany)	06 Feb 98	13 Nov 98
Nikolai A. Starinski (Ukraine) (winter over)	29 Oct 98	
Peter Steffen (Germany)	09 Nov 98	10 Dec 98
Ole Streicher (Germany)	11 Jan 99	12 Feb 99
Ralf-Peter Wischnewski (Germany)	11 Jan 99	12 Feb 99
Kurt W. Woschnagg (Sweden)	12 Nov 98	15 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
AC-132-A		
<u>University of Chicago</u>		
John Davis	09 Nov 98	10 Dec 98
" " (winter over)	15 Jan 99	
Robert Hirsch	15 Dec 98	27 Dec 98
Scott Knudsen	11 Jan 99	03 Feb 99
Nancy A. Larsen-Odalen	15 Dec 98	27 Dec 98
David R. Pernic	01 Dec 97	20 Nov 98
" " "	15 Jan 99	17 Feb 99
Robert J. Pernic	08 Nov 98	30 Dec 98
Joseph E. Rottman	08 Jan 99	08 Feb 99
Robert Spotz	08 Nov 98	17 Dec 98
Caesar J. Wirth (Switzerland)	15 Jan 99	01 Feb 99
AC-132-B		
<u>Harvard University</u>		
Thomas M. Bania	15 Jan 99	05 Feb 99
Alberto Bolatto (Uruguay)	15 Jan 99	05 Feb 99
Jeffrey G. Capara	14 Nov 98	26 Nov 98
Henry H. Hsieh	15 Jan 99	28 Jan 99
Maohai Huang (China)	18 Dec 98	03 Feb 99
James M. Jackson	15 Dec 98	05 Jan 99
Karl Jacobs (Germany)	14 Nov 98	01 Dec 98
Roopesh Ojha (India) (winter over)	02 Nov 98	
Antony A. Stark	23 Nov 98	17 Dec 98
Christopher Walker	14 Nov 98	26 Nov 98
Gregory A. Wright	23 Nov 98	29 Dec 98
Xiaolei Zhang (China)	13 Nov 97	20 Nov 98
AC-132-C		
<u>University of Chicago</u>		
Michael G. Burton (Australia)	11 Jan 99	28 Jan 99
Matthew A. Chamberlain (Australia)	11 Jan 99	28 Jan 99
Michael L. Edgar (Australia)	09 Nov 98	15 Dec 98
Peter Gillingham (Australia)	08 Jan 99	16 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Daniel R. Marlay (Australia)	11 Jan 99	01 Feb 99
John F. McMahon	09 Nov 98	06 Dec 98
Michael A. Phillips (New Zealand)	09 Nov 98	24 Nov 98
John W. Storey (Australia)	08 Jan 99	19 Jan 99
 AC-132-E		
<u>University of Chicago</u>		
Gardner M. Cushman	23 Dec 98	30 Dec 98
Albert M. Fowler	04 Dec 98	01 Feb 99
Doyal A. Harper	14 Jan 99	12 Feb 99
Charles D. Kaminski (winter over)	02 Nov 98	
Robert F. Loewenstein	08 Jan 99	05 Feb 99
Rodney Marks (Australia)	08 Jan 99	17 Feb 99
Mark M. Matsumura	23 Dec 98	30 Dec 98
Fred Mrozek	04 Dec 98	03 Feb 99
David A. Rapchun	23 Dec 98	30 Dec 98
Nigel A. Sharp	04 Dec 98	03 Feb 99
 AC-132-F		
<u>Carnegie-Mellon University</u>		
David Chuss	11 Jan 99	12 Feb 99
Gregory S. Griffin (winter over)	08 Nov 98	
Jill L. Hanna	09 Dec 98	30 Dec 98
Bill Holzapfel	09 Nov 98	26 Nov 98
Prasnant Malhotra	09 Dec 98	30 Dec 98
Dale Morgan	12 Dec 98	05 Jan 99
Matthew G. Newcomb	13 Nov 97	21 Nov 98
" " "	28 Jan 99	17 Feb 99
Giles A. Novak	12 Dec 98	05 Feb 99
Jeffrey B. Peterson	14 Jan 99	05 Feb 99
" " "	20 Nov 98	03 Dec 98
Tom Renbarger	09 Dec 98	05 Feb 99
Anita K. Romer (United Kingdom)	04 Dec 98	15 Dec 98
Marcus Runyan	09 Nov 98	26 Nov 98
Mark T. Thoma	15 Jan 99	01 Feb 99
Shane Zabel	18 Dec 98	05 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
AO-138-O		
<u>State University of New York, Stony Brook</u>		
Robert L. De Zafra	11 Jan 99	28 Jan 99
AO-148-O		
<u>University of Denver</u>		
Steve T. Kacenjjar	23 Dec 98	05 Jan 99
Renate Van Allen-Heuberger (Switzerland)	23 Dec 98	05 Jan 99
TA-150-A		
<u>University of Nebraska-Lincoln</u>		
Sven Olov M. Lidstrom (Sweden)	15 Dec 98	07 Jan 99
Stephen R. Platt	15 Dec 98	07 Jan 99
OO-208-O		
<u>University of Alaska, Fairbanks</u>		
Marko J. Pekkola (Finland)	18 Dec 98	19 Jan 99
Walter R. Tape	19 Nov 98	18 Dec 98
OO-257-O		
<u>National Oceanic and Atmospheric Administration</u>		
Elke H. Bergholz (Germany)	08 Jan 99	12 Feb 99
Andrew David Clarke	25 Oct 98	28 Jan 99
" " " (winter over)	03 Feb 99	
Patricia Lang	25 Nov 98	03 Dec 98
Joel T. Michalski (winter over)	25 Oct 98	
OO-257-A		
<u>National Oceanic and Atmospheric Administration</u>		
Nathan L. Hill	26 Oct 97	07 Nov 98
David J. Hofmann	10 Jan 99	28 Jan 99
Bryan Johnson	08 Jan 99	28 Jan 99
Eric S. Sandberg	01 Dec 97	03 Nov 98
OO-270-O		
<u>Georgia Institute of Technology</u>		
Martin Buhr	14 Nov 98	06 Dec 98
Jeff Crawford	19 Nov 98	15 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Fred L. Eisele	14 Nov 98	10 Dec 98
Edward J. Kosciuch	12 Dec 98	07 Jan 99
Roy L. Mauldin	14 Nov 98	15 Dec 98
John B. Nowak	04 Dec 98	07 Jan 99
David J. Tanner	09 Dec 98	07 Jan 99
He Xu	18 Dec 98	07 Jan 99
 EO-314-O		
<u>Magee Scientific Company</u>		
Anthony D. Hansen (winter over#)	17 Nov 97	26 Nov 98
" " "	28 Jan 99	11 Feb 99

Palmer Station Area

BO-003-O		
<u>Arizona State University</u>		
Thomas A Day	05 Jan 99	15 Feb 99
Jenny Lin	30 Sep 98	14 Mar 99
Chris Ruhland	30 Sep 98	14 Mar 99
Fusheng Xiong	30 Sep 98	14 Mar 99
 BO-013-O		
Peter Duley	30 Sep 98	15 Feb 99
William Fraser	05 Jan 98	06 Apr 98
Matt Irinaga	30 Sep 98	15 Feb 99
Donna Patterson	10 Dec 97	06 Apr 98
 BP-016-O		
<u>Scripps Institute of Oceanography</u>		
Eric Pohlman	30 Sep 98	15 Feb 99
Robert E Kozlowski	05 Jan 99	15 Feb 99
Wendy Kozlowski	30 Sep 98	15 Feb 99
Jennifer White	30 Sep 98	14 Mar 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
S-026		
<u>University of California, San Diego</u>		
Gerald Kooyman	05 May 98	13 Jun 98
Robert Van Dam	05 May 98	13 Jun 98
BP-028-O		
<u>University of California, Santa Barbara</u>		
Heidi Dierssen	05 Jan 99	15 Feb 99
Kimberly M Grimm	17 Oct 98	17 Nov 98
Jared C Kneebone	05 Jan 99	15 Feb 99
Daniel Martin	17 Oct 98	24 Dec 98
Langdon B Quetin	17 Oct 98	24 Dec 98
BP-032-O		
<u>University of California, Santa Barbara</u>		
Karen Patterson	30 Sep 98	15 Feb 99
BO-037-O		
<u>Northeastern University</u>		
H. William Detrich	24 Mar 99	
Steven Hann	24 Mar 99	
OO-264-O		
<u>National Oceanic and Atmospheric Administration</u>		
Paul Bond	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	08 Feb 99
Joshua Downer	30 Dec 98	08 Feb 99
Timothy Haskell	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Nicholas Wilson	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99

R/V Nathaniel B. Palmer

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
BX-039-O		
<u>University of California, Santa Cruz</u>		
Marcia Gowing	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Cynthia Venn	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
James King	30 Dec 98	11 Feb 99
BO-044-O		
<u>Montana State University</u>		
Chris Fritsen	30 Dec 98	11 Feb 99
S-071		
Kevin Bradley	07 Jul 98	13 Jul 98
Brian Collins	07 Jul 98	13 Jul 98
Andrew Goodwillie	07 Jul 98	13 Jul 98
GO-072-A		
<u>Hamilton College</u>		
Gunnela Gustavsson	30 Mar 99	
Stefanie A Brachfeld	30 Mar 99	
Katherine H Clarke	30 Mar 99	
Eugene W Domack	30 Mar 99	
Patricia L Manley	30 Mar 99	
Alissa C Maxwell	30 Mar 99	
Patrick D Reynolds	30 Mar 99	
Fiona Taylor	30 Mar 99	
David A Tewksbury	03 Mar 99	
Tara E Wood	30 Mar 99	
GO-083-O		
<u>Rice University</u>		
John Anderson	11 Feb 99	21 Mar 99
Broxston Bird	11 Feb 99	21 Mar 99
Hannah F Campbell	11 Feb 99	21 Mar 99
Kimberly Giesting	11 Feb 99	21 Mar 99
Ashley Lowe	11 Feb 99	21 Mar 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Tamar Misner	11 Feb 99	21 Mar 99
Pamela Perry	11 Feb 99	21 Mar 99
Julia Smith-Wellner	11 Feb 99	21 Mar 99
Diane Winter	11 Feb 99	21 Mar 99
BO-207-O		
<u>Woods Hole Oceanographic Institute</u>		
David Caron	30 Dec 98	08 Feb 99
Mark Dennett	30 Dec 98	08 Feb 99
Rebecca Gast	30 Dec 98	08 Feb 99
Vanja Klepac	30 Dec 98	08 Feb 99
Robert Sanders	30 Dec 98	08 Feb 99
OR-216-A		
<u>Stanford University</u>		
Paul Chang	06 Nov 98	16 Dec 98
Alice Cook	06 Nov 98	16 Dec 98
Robert Dunn	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	
Nancy Grumet	06 Nov 98	16 Dec 98
Eric Johnson	06 Nov 98	16 Dec 98
Michael Lutz	06 Nov 98	16 Dec 98
David A Mucciarone	30 Mar 99	
David Munro	06 Nov 98	16 Dec 98
William Stone	06 Nov 98	16 Dec 98
Kevin Theissen	06 Nov 98	16 Dec 98
OR-216-B		
<u>Stanford University</u>		
James P Barry	06 Nov 98	16 Dec 98
Carolyn Bretz	06 Nov 98	16 Dec 98
Jacqueline Grebmeir	06 Nov 98	16 Dec 98
Christopher Lovera	06 Nov 98	16 Dec 98
Gay Sheffield	06 Nov 98	16 Dec 98
James Smith	06 Nov 98	16 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
OR-216-C		
<u>Stanford University</u>		
Kevin Arrigo	06 Nov 98	16 Dec 98
Matthew Erickson	06 Nov 98	16 Dec 98
Kyle M Howell	06 Nov 98	01 Dec 98
Josephine Humphries	06 Nov 98	16 Dec 98
Michael Lizotte	06 Nov 98	16 Dec 98
Erik Quiroz	06 Nov 98	16 Dec 98
Jennifer Radke	06 Nov 98	16 Dec 98
Dale Robinson	06 Nov 98	16 Dec 98
Lora Stevens	06 Nov 98	16 Dec 98
Jason Whitehead (Australia)	06 Nov 98	16 Dec 98
Denise Worthen	06 Nov 98	16 Dec 98
OR-216F		
<u>Colgate University</u>		
Amy Laventer	30 Mar 99	
OR-216-Q		
<u>Stanford University</u>		
Michael Van Woert	06 Nov 98	16 Dec 98
BR-272-O		
<u>University of Charleston, SC</u>		
Mark Geesey	06 Nov 98	16 Dec 98
Jennifer Maucher	06 Nov 98	16 Dec 98
Giacomo Ditullio	06 Nov 98	16 Dec 98
OX-286-O		
<u>Geophysical Institute, University of Alaska, Fairbanks</u>		
Souhei Nihashi (Japan)	30 Dec 98	11 Feb 99
Tina Tin	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	08 Feb 99
Ricardo Jana	05 May 98	13 Jun 98
Martin Jeffries	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Nikolai Kozlenko	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	08 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Camille Li (Canada)	30 Dec 98	11 Feb 99
Shusan Li	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Ted Maksym	05 May 98	13 Jun 98
Kim Morris	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Daniel D. Naber	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Jean-Louis Tison (Belgium)	05 May 98	13 Jun 98
"" "" "" (Belgium)	30 Dec 98	08 Feb 99
Xiaobing Zhou	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	08 Feb 99

BX-325-O

University of California, Santa Cruz

Charlotte Boeson (Denmark)	30 Dec 98	08 Feb 99
Susan Coale	30 Dec 98	11 Feb 99
Niels Daugbjerg (Denmark)	30 Dec 98	08 Feb 99
Bodil Gammelgaard (Denmark)	30 Dec 98	08 Feb 99
Angela Gibson	30 Dec 98	08 Feb 99
Johanna Ikavalko (Finland)	05 May 98	13 Jun 98
Harvey Marchant (Australia)	30 Dec 98	11 Feb 99
Diann Neenan	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Yuri Okolodkov	05 May 98	13 Jun 98
Wolfgang Petz (Austria)	30 Dec 98	11 Feb 99
Janne-Markus Rintala	05 May 98	13 Jun 98

R/V Laurence M. Gould

BO-002-A

Steven R Beaupree	17 Oct 98	17 Nov 98
Brendon D Hofsetz	17 Oct 98	17 Nov 98
Kenneth Mopper	17 Oct 98	17 Nov 98
Yi Zhu	17 Oct 98	17 Nov 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
BO-002-B		
<u>Washington State University</u>		
David J Kieber	17 Oct 98	17 Nov 98
Todd M Medovich	17 Oct 98	17 Nov 98
Gary W Miller	17 Oct 98	17 Nov 98
BO-002-O		
<u>Washington State University</u>		
Beniman P Colman	17 Oct 98	17 Nov 98
BO-010-O		
<u>Smithsonian Environmental Research Center</u>		
Richard F Davis	17 Oct 98	17 Nov 98
Jennifer J Fritz	17 Oct 98	17 Nov 98
John G Macintyre (Canada)	17 Oct 98	17 Nov 98
Patrick J Neale	17 Oct 98	17 Nov 98
Jill A Peolquin	17 Oct 98	17 Nov 98
BP-013-O		
<u>Montana State University</u>		
Ronald D Batie Jr.	05 Jan 99	15 Feb 99
BP-016-O		
<u>Scripps Institute of Oceanography</u>		
Karie Sines	16 Jan 98	06 Apr 98
Karen Z Weinbaum	05 Jan 99	14 Mar 99
Marnie Zirbel	25 Jan 98	06 Apr 98
BP-028-O		
<u>University of California, Santa Barbara</u>		
Cordelia Arndt	25 Feb 99	14 Mar 99
Monika Bright	25 Feb 99	14 Mar 99
Melinda Dupessis	25 Feb 99	14 Mar 99
Horst Fedbeck	25 Feb 99	14 Mar 99
Kiberly M Grimm	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
Janice Jones	09 Nov 97	06 Apr 98
Robin M. Ross-Quetin	05 Jan 99	15 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Caroline Shaw	10 Dec 97	06 Apr 98
"" "" ""	05 Jan 99	14 Mar 99
Justin B Smith	05 Jan 99	14 Mar 99
Stephanie L White	05 Jan 99	15 Feb 99
 BP-032-O		
<u>University of California, Santa Barbara</u>		
Karen Patterson	25 Feb 99	14 Mar 99
Dierdre Toole	25 Jan 98	06 Apr 98
 BO-036-O		
<u>University of Maine</u>		
Theresa Gove	24 Mar 99	
Bruce D Sidell	24 Mar 99	
 BO-037-O		
<u>Northeastern University</u>		
Donald Yergeau	14 Mar 99	
 BO-040-O		
<u>Montana State University</u>		
Andre Breton	30 Sep 98	05 Oct 98
John Carlson	30 Sep 98	05 Oct 98
Lana (Laina) Shill	30 Sep 98	05 Oct 98
 BP-046-O		
<u>University of Hawaii</u>		
Christopher J Carillo	05 Jan 99	15 Feb 99
Terrance A Houlihan	05 Jan 99	15 Feb 99
Markus Karner	05 Jan 99	15 Feb 99
Luis M Tupas	05 Jan 99	15 Feb 99
 GO-052-O		
<u>U.S. Geological Survey</u>		
Richard DeSanchez	05 Jan 99	15 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
BO-050-O		
<u>University of California, San Diego</u>		
Robert Baldwin	25 Feb 99	14 Mar 99
Kanese Duncan	25 Feb 99	14 Mar 99
Erin Fisher	25 Feb 99	14 Mar 99
Donovan German	25 Feb 99	14 Mar 99
Robert Glatts	25 Feb 99	14 Mar 99
Andrew L King	05 Jan 99	14 Mar 99
James Schmitt	25 Feb 99	14 Mar 99
Kenneth Smith	25 Feb 99	14 Mar 99
Alfred H Uhlman	25 Feb 99	14 Mar 99
Robert C Wilson	25 Feb 99	14 Mar 99
GO-087-O		
<u>University of Texas</u>		
David Phillips	27 Nov 98	24 Dec 98
Frederick Taylor	27 Nov 98	24 Dec 98
GO-097-O		
<u>Washington University</u>		
Rodrigo Adaros (Chile)	27 Nov 98	24 Dec 98
Stacey Robertson	27 Nov 98	24 Dec 98
Raul Rodrigues (Chile)	27 Nov 98	24 Dec 98
Douglas Wiens	27 Nov 98	24 Dec 98
AO-106-O		
<u>Stanford University</u>		
Troy Wood	24 Mar 99	
S-124		
Claudia Giulivi	24 Mar 99	
Eugene Gorman	24 Mar 99	
Gerd Krahnemann (Germany)	24 Mar 99	
Robin Robertson	24 Mar 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
GO-135-O		
<u>Scripps Institute of Oceanography</u>		
LeRoy Dorman	27 Nov 98	24 Dec 98
Nancy Kanjorski	27 Nov 98	24 Dec 98
Michael Tryon (Tiyon)	27 Nov 98	24 Dec 98
Sharon Escher	27 Nov 98	24 Dec 98
Allan Sauter	27 Nov 98	24 Dec 98
BO-200-O		
<u>University of West Florida</u>		
Steven M Short	17 Oct 98	17 Nov 98
OO-204-O		
<u>Scripps Institute of Oceanography</u>		
Britton Stephens	30 Sep 98	05 Oct 98
OO-260-O		
<u>Scripps Institute of Oceanography</u>		
Ray Peterson	12 May 98	21 May 98
"" "" ""	27 Nov 98	24 Dec 98
BO-300-O		
<u>Woods Hole Oceanographic Institute</u>		
Donald Anderson	24 Mar 99	
David M Kulis	24 Mar 99	
Pamela Arnofsky	24 Mar 99	
Gregory Doucette	24 Mar 99	

National Science Foundation Staff

McMurdo Station Area

Gwendolyn M. Adams	11 Jan 99	01 Feb 99
Scott G. Borg	16 Oct 98	22 Nov 98
David M. Bresnahan	22 Aug 98	31 Aug 98
"" "" ""	15 Dec 98	22 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Bart M. Bridwell	20 Nov 98	26 Nov 98
Frank W. Brier	01 Nov 98	26 Nov 98
Arthur J. Brown	20 Nov 98	20 Nov 98
"" "" ""	14 Jan 99	14 Jan 99
William A. Bryant	20 Nov 98	26 Nov 98
Maryellen Cameron	28 Jan 99	08 Feb 99
Erick Chiang	18 Nov 98	14 Dec 98
"" "" ""	18 Dec 98	27 Dec 98
Karl A. Erb	22 Jan 99	28 Jan 99
Kim Y. Givens	28 Dec 98	18 Feb 99
Mary E. Hanson	02 Jan 99	01 Feb 99
Joyce A. Jatko	10 Jan 99	03 Feb 99
Nadene G. Kennedy	15 Jan 99	22 Feb 99
Susanne M. Lafratta	08 Jan 99	23 Jan 99
Bernhard Lettau	08 Nov 98	03 Dec 98
Harry Mahar	29 Oct 98	10 Dec 98
Brian J. Mannion	05 Feb 99	08 Feb 99
Roberta Marinelli	08 Jan 99	28 Jan 99
Terry L. Melton (winter over)	16 Oct 98	
Julie M. Palais	18 Nov 98	03 Dec 98
John S. Sherve (winter over#)	09 Dec 97	22 Oct 98
Jeff Slostad	15 Jan 99	28 Jan 99
Simon N. Stephenson	17 Dec 98	03 Oct 98
Elizabeth J. Teles	02 Jan 99	03 Feb 99

South Pole Station Area

Jerry W. Marty	09 Dec 98	17 Feb 99
John H. Rand	11 Jan 99	28 Jan 99

Nathaniel B. Palmer

Judy F. Coakley	30 Mar 99	
Altie H. Metcalf	30 Mar 99	

Laurence M. Gould

Dates in Antarctica
Arrived Departed

Alexander Sutherland	25 Feb 99	14 Mar 99
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Media Visitors

V-005

TV New Zealand Film Crew

Jeannie Ackley (New Zealand)	05 May 98	13 Jun 98
" " "	16 Oct 98	20 Nov 98
Michael A. Single (New Zealand)	05 May 98	13 Jun 98
" " "	16 Oct 98	20 Nov 98

V-006

CBS News Film Crew

Jerold E. Bowen	07 Jan 99	23 Jan 99
Brian Nolan	07 Jan 99	23 Jan 99
Bruce P. Heins	07 Jan 99	23 Jan 99
John M. Weiser	07 Jan 99	23 Jan 99

V-007

Knight-Ridder Magazine

John C. Williams	15 Jan 99	01 Feb 99
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V-008

The Washington Post

Curtis B. Suplee	11 Jan 99	23 Jan 99
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V-009

Robert S. Boyd	15 Jan 99	01 Feb 99
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V-010

New Scientist

Gabrielle A. Walker (United Kingdom)	14 Jan 99	01 Feb 99
" " " (United Kingdom)	30 Mar 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
VP-011		
<u>Freeland Writer</u>		
David S. Helvarg	05 Jan 99	15 Feb 99
VP-012		
<u>Freeland Writer</u>		
Colin S. Woodard	17 Oct 98	17 Nov 98
VP-020		
Gary B. Braash	30-Mar-99	
Mary Roach	30-Mar-99	

Official Visitors

V-001		
<u>National Science Board</u>		
Eva L. Menger-(Hammond)	30 Nov 98	05 Dec 98
Claudia Mitchell-Kernan	30 Nov 98	05 Dec 98
V-002		
<u>Congressional Staff Visit</u>		
Suzanne L. Day	18 Nov 98	22 Nov 98
Stephen D. Eule	18 Nov 98	22 Nov 98
Philip G. Kiko	18 Nov 98	22 Nov 98
Mark E. Powden	18 Nov 98	22 Nov 98
William A. Stiles, Jr	18 Nov 98	22 Nov 98
V-003		
Robert A. Eisenstein	22 Jan 99	28 Jan 99
Terry D. Garcia	22 Jan 99	28 Jan 99
Martha A. Krebs	22 Jan 99	28 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
V-004		
<u>National Guard / Oceanographer</u>		
Barry M. Donovan	01 Feb 99	03 Feb 99
John Fenimore	01 Feb 99	01 Feb 99
Joseph W. Swaykos	01 Feb 99	03 Feb 99
V-013		
<u>VXE-6</u>		
Dave Bogan	22 Dec 98	29 Dec 98
Jim Herdt	22 Dec 98	27 Dec 98
V-017		
<u>STAFFDEL #2</u>		
John T. Blazey, III	28 Jan 99	01 Feb 99
Timothy P. Clancy	28 Jan 99	01 Feb 99
Richard E. Efford	28 Jan 99	01 Feb 99
Timothy L. Peterson	28 Jan 98	01 Feb 99

Special Participants

McMurdo Station Area

V-015		
<u>Plant Property Audit</u>		
Edward L. Blansitt	04 Dec 98	10 Dec 98
Gerard Glaser	30 Nov 98	06 Dec 98
John Hummel	04 Dec 98	11 Dec 98
Albert A. Muhlbauer	04 Dec 98	10 Dec 98
Michael K. Fullen	04 Dec 98	10 Dec 98
V-016		
<u>Job Walk</u>		
John P. Aucella	20 Nov 98	26 Nov 98
Patrick A. Bannister	20 Nov 98	26 Nov 98
Ray C. Bonney	20 Nov 98	26 Nov 98
David E. Caldwell	20 Nov 98	26 Nov 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Raymond G. Colby	20 Nov 98	26 Nov 98
John S. Cowings	20 Nov 98	26 Nov 98
George S. Cudd	20 Nov 98	26 Nov 98
Anthony C. Danks	20 Nov 98	26 Nov 98
Kevin W. Duffy	20 Nov 98	26 Nov 98
Darryl Farrow	20 Nov 98	26 Nov 98
Clifford A. Fick	20 Nov 98	26 Nov 98
Timothy J. Hannigan	20 Nov 98	26 Nov 98
Joseph A. Hanny	20 Nov 98	26 Nov 98
Larry D. Harris	20 Nov 98	26 Nov 98
Frank E. Hopkins	20 Nov 98	26 Nov 98
John D. Kelly	20 Nov 98	26 Nov 98
William I. Lightfoot	20 Nov 98	26 Nov 98
Douglas J. Mc Vicar	20 Nov 98	26 Nov 98
Wazir Mohammed (Canada)	20 Nov 98	26 Nov 98
Alfred V. Neffgen	20 Nov 98	26 Nov 98
Robert D. Odenheimer	20 Nov 98	26 Nov 98
Mary A. Peoples	20 Nov 98	26 Nov 98
Neal E. Terry	20 Nov 98	26 Nov 98
Robert H. Thomas	20 Nov 98	26 Nov 98
Thomas W. Yelvington	20 Nov 98	26 Nov 98
V-019		
Jan E. Haugland (Norway)	10 Dec 98	17 Dec 98
WO-001-O		
<u>Boy Scout</u>		
Benjamin J. Hasse	29 Oct 98	07 Jan 99
WO-002-O		
Francois Vuilleumier (Switzerland)	12 May 98	21 May 98
WO-003-O		
James H. Barker	01 Sep 98	21 Nov 98
WO-004-O		
Meredith Hooper	27 Nov 98	15 Feb 99
Lucia De Leiris	27 Nov 98	14 Mar 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
WO-006-O		
Gabriel Warren	10 Jan 99	
WO-031-O		
Sandra L. Markle	12 Dec 98	28 Jan 99
Harriet G. Heriot		10 Feb 99
Graeme Howden (New Zealand)	04 Dec 98	07 Jan 99
Robert La Roche Heriot		10 Feb 99
Phil Leat (United Kingdom)		09 Jan 99
David Mawhinney	22 Dec 98	29 Dec 98
Richard T. Miller	05 Feb 99	08 Feb 99
Nieves Nunez		23 Jan 99
David A. Paige	15 Jan 99	28 Jan 99
Terry Register	02 Dec 98	17 Dec 98
Dave Roche (New Zealand)	04 Dec 98	18 Dec 98
Bryan C. Storey (United Kingdom)		09 Jan 99
John R. Thompson (New Zealand)	04 Dec 98	14 Dec 98
Rama Verma (India)	13 Jan 99	01 Feb 99
T-308		
<u>NASA/WFF Allied Signal</u>		
Gregg W. Frostrom	08 Jan 99	28 Jan 99
Jaime Gallo	16 Feb 98	06 Dec 98
" " " (winter over)	08 Feb 99	
David J. Hess	31 Aug 98	03 Feb 99
" " " (winter over)	19 Feb 99	
David L. Honea	31 Aug 98	12 Jan 99
" " " (winter over)	28 Jan 99	
Edward C. Seman	25 Aug 97	22 Aug 98
T-315		
<u>NASA</u>		
Kurt D. Rush	09 Nov 98	26 Nov 98
T-375		
<u>NASA/GSFC</u>		
Andre S. Fortin	09 Nov 98	26 Nov 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
T-376		
<u>Naval Facil Eng Comm. Pac Div</u>		
John C. Chan	08 Nov 98	20 Nov 98
T-379		
<u>Office of Aircraft Services, Dept of Interior</u>		
Ron Hanks	10 Jan 99	01 Feb 99
Mark A. Reese	08 Nov 98	06 Dec 98
Allen P. Rice	03 Oct 98	13 Oct 98
T-380		
<u>Army Vet Corp.</u>		
Robert Hess	08 Jan 99	14 Jan 99
T-385		
Pam Beard	14 Jan 99	21 Feb 99
Norman J. Cushing	15 Dec 98	21 Feb 99
Jeffrey L. Dorman	15 Jan 99	17 Feb 99
Christopher T. Joffe	29 Oct 98	12 Nov 98
Blake Lorenz	13 Oct 98	04 Nov 98
Edward Payne	22 Oct 98	12 Nov 98
Ronald G. Streich	13 Oct 98	07 Nov 98
Ronald G. Streich	08 Jan 99	28 Jan 99
T-386		
<u>Jackson & Tull</u>		
Stephen F. Currier	28 Jan 99	03 Feb 99
Kenneth R. Griffin	28 Jan 99	03 Feb 99
Phillip Liebrecht	28 Jan 99	03 Feb 99
Donald W. Shinnars	28 Jan 99	03 Feb 99
William Watson	28 Jan 99	03 Feb 99
T-387		
George E. Cannon	28 Jan 99	05 Feb 99
Patrina Eiffort Taylor	28 Jan 99	05 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
T-390		
<u>Petroleum Helicopters, Inc.</u>		
William J. Burnette	22 Aug 98	08 Feb 99
Ethan J. Conner	01 Sep 98	08 Feb 99
Christopher T. Dean	03 Oct 98	08 Feb 99
Richard L. Dipboye	03 Oct 98	08 Feb 99
K. Dale Fowler	03 Oct 98	08 Feb 99
Doris D. Good	03 Oct 98	08 Feb 99
Jerry A. Gray	22 Aug 98	31 Aug 98
Jack D. Hawkins	03 Oct 98	09 Nov 98
" " "	27 Nov 98	08 Feb 99
Ronald D. Hott	23 Dec 98	08 Feb 99
Michael C. Hurst	09 Dec 98	14 Dec 98
Barry W. James	28 Dec 98	08 Feb 99
Gregg A. Leibert	03 Oct 98	08 Feb 99
John E. Losure	03 Oct 98	17 Dec 98
David D. Medley	22 Aug 98	08 Feb 99
John S. Pentecost	03 Oct 98	08 Feb 99
Ben Schrick	09 Dec 98	14 Dec 98
Allen S. Warren	03 Oct 98	17 Dec 98
A-500		
<u>Kenn Borek Air</u>		
Kenneth P. Janzen (Canada)	18 Dec 98	
Christopher Jones (Canada)	01 Dec 98	
Brian W. Knutsen (Canada)	25 Nov 98	25 Nov 98
Sean A. Loutitt (Canada)	01 Dec 98	
Lionel Rosset	15 Dec 98	
Sherri A. Spencer	25 Nov 98	25 Nov 98
A-501		
Andrew Stephens	14 Nov 98	05 Dec 98
A-503		
<u>Seaspace Corp.</u>		
Eric C. Rauscher	09 Dec 98	15 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
A-509		
<u>ETS-Engineering & Technical Services, Inc.</u>		
Duane A. Pfund	02 Nov 98	07 Nov 98
A-512		
Lori J. Prior (New Zealand)	02 Nov 98	07 Nov 98
A-513		
Germar H. Bernhard	20 Jan 99	01 Feb 99
James S. Robertson	10 Jan 99	01 Feb 99
A-514		
Alan S. Alderson	29 Oct 98	01 Dec 98
Eric W. Arbo	22 Oct 98	20 Nov 98
Glen Barrett	29 Oct 98	01 Dec 98
Johnnie Bray	22 Oct 98	01 Dec 98
David J. Edmunson	29 Oct 98	01 Dec 98
Tom Ehnstrom	29 Oct 98	01 Dec 98
Jeffrey R. Gordon	22 Oct 98	13 Nov 98
Daniel T. Gylten	29 Oct 98	01 Dec 98
Donn D. Laflamme	20 Nov 98	10 Dec 98
Darrell Mccullough	29 Oct 98	01 Dec 98
Ryan J. Savage	29 Oct 98	01 Dec 98
James M. Todd	29 Oct 98	01 Dec 98
Brett A. Wiest	29 Oct 98	01 Dec 98
A-515		
John M. Conroy	20 Nov 98	10 Dec 98
A-518		
Kathryn L. Porter	25 Oct 98	07 Nov 98
A-520		
<u>Asbestos Removal</u>		
Frank C. Russo	20 Nov 98	10 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
A-521		
<u>Beckman Instruments</u>		
Richard Ross (Australia)	22 Oct 98	27 Oct 98
A-524		
<u>Installation of fuel liners</u>		
Gunnar N. Ulander	01 Nov 98	13 Nov 98
A-530		
<u>Catholic Diocese of Christchurch</u>		
John Coleman (New Zealand)	08 Jan 99	03 Feb 99
Daniel Doyle (New Zealand)	02 Nov 98	03 Dec 98
Bede M. Haughey (New Zealand)	13 Oct 98	04 Nov 98
Barry Scannell (New Zealand)	30 Nov 98	05 Jan 99
A-533		
Thomas Cornwall	13 Oct 98	27 Oct 98
William F. Kohutanycz	13 Oct 98	27 Oct 98
Paul Merlino	13 Oct 98	27 Oct 98
A-534		
John J. Gallagher	19 Jan 98	20 Jan 99
Eric Gundlach	20 Jan 99	05 Feb 99
A-535		
Roger A. Cain (New Zealand)	13 Oct 98	22 Oct 98
A-536		
<u>Engineerex International</u>		
Arthur H. Atkinson	08 Nov 98	21 Nov 98
A-539		
Fred M. Straughn	01 Nov 98	28 Jan 99
A-542		
<u>Spacemark</u>		
Diane M. Barber (winter over)	16 Oct 98	
Allen C. Berggren (winter over)	16 Oct 98	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Christopher Boyle	16 Oct 98	21 Feb 99
Sanford Buckner	29 Oct 98	21 Feb 99
Edward Burnette	26 Oct 97	05 Sep 98
Jordon L. Dickens	16 Oct 98	
Harry A. Dyson	11 Oct 97	24 Oct 98
Madison W. Hall	09 Nov 98	11 Feb 99
Daniel L. Hance	03 Oct 98	12 Feb 99
Christopher J. Herring	11 Oct 97	16 Oct 98
Scott Hoeft	09 Nov 98	18 Feb 99
Dean D. Jarosh	16 Oct 98	22 Feb 99
Brian F. Kaehler	31 Aug 98	22 Feb 99
Wendy M. Kober	14 Oct 97	13 Nov 98
Peggy M. Lind (winter over)	16 Oct 98	
Wayne L. Macdaid (winter over)	31 Aug 98	
Chris A. Moxon (winter over)	13 Oct 98	
Todd Plochocki	01 Sep 98	16 Oct 98
Jerome Pratt	09 Feb 98	20 Nov 98
Ronnie Quick	29 Oct 98	19 Feb 99
Joseph E. Sanks	22 Oct 98	08 Feb 99
Scott Schenck	22 Oct 98	22 Feb 99
Denny P. Shelby	22 Oct 98	19 Feb 99
Robert E. Simpson, Jr	22 Oct 98	11 Feb 99
David R. Smith (winter over)	22 Oct 98	
Frank H. Thompson	22 Oct 98	21 Feb 99
Gregory H. Towns	28 Oct 97	22 Oct 98
Clark R. Wallis	23 Dec 98	22 Feb 99
A-545		
Art Jung	15 Jan 99	11 Feb 99
John M. Maier	15 Jan 99	11 Feb 99
A-546		
Philip R. Brown (New Zealand)	09 Nov 98	11 Dec 98
Gary T. Mowat (New Zealand)	09 Nov 98	24 Nov 98
Ronald M. Rodgers (New Zealand)	23 Nov 98	15 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
A-548		
<u>Centennial Internal Medicine</u>		
Gerald Katz	25 Oct 98	21 Nov 98
" " " "	08 Jan 99	23 Jan 99
A-549		
<u>Nicoletti-Flater and Associates</u>		
Kym Baum	07 Jan 99	19 Jan 99
Shannon Connery	07 Jan 99	14 Jan 99
Ann-Charlotte Flater	07 Jan 99	14 Jan 99
John A. Nicoletti	07 Jan 99	14 Jan 99
Kim Shipman	07 Jan 99	19 Jan 99
A-551		
Dr. Anderson - Dentist		
Roger Anderson	20 Jan 99	28 Jan 99
G-700		
<u>Spacemark Supply Services</u>		
Steven Anderson (New Zealand)	02 Nov 98	13 Nov 98
David Boudreau	15 Jan 99	19 Jan 99
Rodney E. Doan	15 Jan 99	19 Jan 99
Michael Eddy (New Zealand)	15 Dec 98	22 Feb 99
Graeme J. Fluerty (New Zealand)	16 Oct 98	17 Dec 98
Clark O. Godfrey	16 Oct 98	17 Dec 98
" " " "	05 Jan 99	22 Feb 99
Ralph B. Holder	22 Oct 98	30 Oct 98
" " " "	18 Dec 98	29 Dec 98
Christopher H. Kratz (New Zealand)	16 Oct 98	19 Feb 99
Andres Perez	16 Oct 98	19 Feb 99
SPAWAR		
Thomas E. Adams	22 Oct 98	18 Feb 99
Joel S. Antes	01 Sep 98	17 Feb 99
Dustin J. Barrett	14 Oct 97	02 Feb 98
"" "" "" (winter over#)	09 Feb 98	13 Oct 98
"" "" "" (winter over)	04 Dec 98	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
John G. Biesiada (Canada)	13 Oct 98	18 Feb 99
Dale E. Bricken	13 Oct 98	20 Nov 98
Arthur M. Cayette	03 Oct 98	17 Dec 98
Dirk W. Christiansen (winter over#)	05 Jan 98	16 Oct 98
" " " " " (winter over)	15 Dec 98	
James L. Cook	13 Oct 98	07 Nov 98
Carol S. Craig	13 Oct 98	22 Feb 99
John M. Dethloff	25 Nov 98	11 Feb 99
John M. Dill	15 Jan 99	01 Feb 99
Paul S. Drago	09 Dec 98	29 Dec 98
Peter F. Dumont	03 Oct 98	22 Feb 99
Kenton W. Edele	16 Oct 98	27 Dec 98
David E. Ferguson	03 Oct 98	15 Jan 99
Charles T. Godfrey	01 Sep 98	22 Feb 99
Donald T. Grey	01 Sep 98	17 Feb 99
Michael S. Griesman	22 Aug 98	07 Jan 99
Gregory . Harrison	03 Oct 98	22 Feb 99
Eric M. Holbrook	13 Oct 98	28 Jan 99
" " " " " (winter over)	05 Feb 99	
George F. Howard III	03 Oct 98	19 Feb 99
Brad . Kachurka	20 Nov 98	17 Feb 99
David M. Kerrigan	22 Aug 98	03 Oct 98
Paul D. Kettrick	02 Jan 99	21 Feb 99
William D. Keyser	13 Oct 98	21 Feb 99
Christopher M. Knox	15 Jan 99	22 Feb 99
Joseph R. Kramer	16 Oct 98	19 Feb 99
David A. Kroth	22 Oct 98	06 Dec 98
Larry J. Lainey	22 Oct 98	17 Feb 99
Daniel E. Lehman	13 Oct 98	18 Feb 99
James H. Lloyd	15 Jan 99	21 Jan 99
Sandra N. Lorenzana	01 Sep 98	17 Feb 99
Michael E. Maclean	03 Oct 98	22 Feb 99
Dennis E. Malone	13 Oct 98	13 Nov 98
Peter E. Martellini	13 Oct 98	22 Feb 99
Keith A. Mc Kinney	14 Nov 98	18 Feb 99
Willy A. Mcmichael	30 Oct 98	18 Feb 99
William S. Nobles	13 Oct 98	18 Feb 99
Michael J. Peebles	01 Nov 98	09 Nov 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Garrett L. Pendleton (winter over#)	22 Jan 98	13 Oct 98
"" "" ""	09 Nov 98	28 Jan 99
"" "" "" (winter over)	05 Feb 99	
Deena R. Peterson	13 Oct 98	22 Feb 99
Monte D. Ramirez	13 Oct 98	17 Feb 99
Richard J. Rhodes	13 Oct 98	15 Nov 98
Robert E. Ruehl	22 Aug 98	22 Feb 99
Michael B. Rugg	13 Oct 98	17 Feb 99
Jonathan D. Shields	22 Aug 98	21 Nov 98
Jonathan D. Shields	02 Jan 99	18 Feb 99
Misty J. Smith	31 Aug 98	21 Feb 99
Raymond H. Smith	01 Nov 98	26 Nov 98
Randall J. Spink	22 Aug 98	13 Oct 98
"" "" ""	23 Dec 98	17 Feb 99
Paul Szymanski	22 Oct 98	07 Nov 98
Kenneth M. Tarr	04 Dec 98	18 Feb 99
Arnie V. Thompson	31 Aug 98	17 Dec 98
Mathew A. Thompson	10 Feb 98	31 Oct 98
"" "" ""	09 Dec 98	03 Feb 99
"" "" "" (winter over)	08 Feb 99	
Susan F. Thompson	31 Aug 98	17 Dec 98
Michael A. Tippo	28 Dec 98	18 Feb 99
Mary F. Tutza	13 Oct 98	22 Feb 99
Jerome Van Dyke	13 Oct 98	18 Feb 99
Perry D. Vath	13 Oct 98	18 Feb 99
Thomas E. Woodall	22 Aug 98	01 Dec 98
" " " " "	14 Jan 99	21 Feb 99
Jeffrey F. Yarris	03 Oct 98	22 Feb 99
Darren G. Ylinen (winter over#)	09 Feb 98	13 Oct 98
Z101A		
Richard . Chabot	29 Oct 98	07 Nov 98
Joel . Hicks	29 Oct 98	07 Nov 98
James H. Johnson	29 Oct 98	07 Nov 98
Z101B		
Ray M. Erickson	04 Dec 98	15 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Z102		
Donald L. Gilbert	22 Oct 98	07 Nov 98
Timothy R. Kimbrell	22 Oct 98	07 Nov 98
Michael T. Londergan	22 Oct 98	07 Nov 98
Todd C. Moss	22 Oct 98	07 Nov 98
Z201		
David J. Hoffmann	09 Nov 98	26 Nov 98
James C. Veatch	09 Nov 98	26 Nov 98
Z301		
Frederick C. Cruz	30 Oct 98	23 Nov 98
Fred E. Flickinger	30 Oct 98	23 Nov 98
James T. Roberson	30 Oct 98	23 Nov 98
Robert L. Vehorn	30 Oct 98	23 Nov 98
Z401		
<u>Cal-Lab</u>		
John D. Bales	09 Nov 98	23 Nov 98
Steven L. Kolden	09 Nov 98	23 Nov 98
Steven L. Kolden	20 Jan 99	28 Jan 99
Z501A		
Charles J. Barbeau	01 Nov 98	07 Nov 98
Edward L. Bradley	15 Dec 98	22 Dec 98
Edward L. Bradley	01 Nov 98	07 Nov 98
Douglas A. Fernow	01 Nov 98	07 Nov 98
Howard M. Ryder	01 Nov 98	07 Nov 98
Z501B		
John E. Lawrence	15 Dec 98	22 Dec 98
Daniel C. Macintosh	15 Dec 98	22 Dec 98
Mitchell T. Rainwater	15 Dec 98	22 Dec 98
Ralph R. Uzzle	15 Dec 98	22 Dec 98

Dates in Antarctica
Arrived Departed

South Pole Area

A-540		
Thomas J. Schlafly	03 Feb 99	05 Feb 99
T-382		
<u>PACDIV</u>		
William N. Henriksen	09 Nov 98	11 Feb 99
T-384		
<u>CRREL</u>		
Dennis J. Lambert	20 Jan 99	08 Feb 99
Michael R. Walsh	20 Jan 99	08 Feb 99
Christopher R. Williams	20 Jan 99	01 Feb 99

Palmer Station Area

A-529		
<u>Consoer Townsend Envirodine Engineers</u>		
Stephen L. Bynum	05 Jan 99	15 Feb 99
Bryan J. Friedel	05 Jan 99	15 Feb 99
Michael Nelson	05 Jan 99	15 Feb 99
Donald R. Paquette	05 Jan 99	15 Feb 99
T-539		
Mark Furnish	17 Apr 98	30 Apr 98

Nathaniel B. Plamer

A-510		
<u>Arizona State University</u>		
David Hutchinson	30 Mar 99	
Andrew Dennis (New Zealand)	05 May 98	13 Jun 98

Laurence M. Gould

Dates in Antarctica
Arrived Departed

A-511

Naval Architect

James St John

12 May 98 21 May 98

A-513

BSI Company

James Robertson

27 Mar 98 06 Apr 98

A-514

Donn D. LaFlamme

17 Apr 98 30 Apr 98

A-526

Suzanne O'Hara

" " "

07 Jul 98 13 Jul 98
05 Feb 99 21 Mar 99

A-535

Roger Cain (New Zealand)

16 Sep 98 23 Sep 98

A-546

Marcus Stocks (United Kingdom)

29 Mar 98 06 Apr 98

T-526

Jose Ardaí

"" "" ""

05 Feb 99 21 Mar 99
30 Mar 99

Antarctic Support Associates

McMurdo Station Area

Robin R. Abbott

13 Oct 98 17 Feb 99

John P. Ackley

04 Oct 98 02 Feb 99

" " " (winter over)

21 Feb 99

Paula L. Adkins

13 Oct 98 11 Feb 99

Jeffrey S. Akens

09 Nov 98 05 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Michelle R. Akins	05 Feb 98	13 Oct 98
Jesse J. Alcorta	04 Oct 98	01 Nov 98
" " "	04 Nov 98	27 Dec 98
" " "	02 Jan 99	28 Jan 99
" " "	03 Feb 99	17 Feb 99
Danny M. Aldous (winter over#)	01 Feb 98	03 Oct 98
Barbara J. Allen	31 Aug 98	18 Feb 99
Kirsten A. Amann	13 Oct 98	19 Feb 99
William R. Ames (winter over)	02 Nov 98	
Nicholas J. Ammon (winter over#)	06 Feb 98	03 Oct 98
Edward P. Anderson	22 Oct 98	21 Feb 99
James D. Anderson	09 Nov 98	01 Feb 99
Mandy L. Anderson	19 Nov 98	11 Feb 99
" " " (winter over)	17 Feb 99	
Shawn P. Anderson	16 Oct 98	12 Jan 99
Tobi T. Anderson (winter over)	22 Aug 98	
Jason C. Anthony	13 Oct 98	08 Feb 99
Andrew B. Archer	09 Nov 98	15 Dec 98
Frank J. Arduini	22 Jan 99	05 Feb 99
Kelly R. Arnold (winter over)	03 Oct 98	
Lorraine C. Ashida	13 Oct 98	17 Feb 99
Mette Axelsen (winter over)	03 Oct 98	
Michael A. Baclawski	22 Oct 98	17 Feb 99
Thomas W. Balding	03 Oct 98	18 Feb 99
Mariette Baldwin	31 Aug 98	21 Feb 99
Christopher Baltazar	16 Oct 98	18 Feb 99
Cathy D. Banoczi (winter over#)	05 Oct 97	13 Oct 98
John R. Banoczi (winter over#)	05 Oct 97	13 Oct 98
David F. Barber (winter over)	21 Feb 99	
Ann L. Barnett	13 Oct 98	11 Feb 99
Toby G. Bartel	01 Sep 98	18 Feb 99
Juan T. Basurto	22 Aug 98	21 Feb 99
Johann F. Bates	31 Aug 98	22 Oct 98
Bo S. Baumgartner (winter over#)	25 Jan 98	03 Oct 98
" " " (winter over)	12 Feb 99	
Caroline A. Beane	15 Dec 98	18 Feb 99
Roger R. Beaty (winter over#)	01 Feb 98	03 Oct 98
Wendy R. Beeler (winter over#)	15 Feb 99	13 Oct 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Mark A. Begnaud	01 Sep 98	18 Feb 99
Laura C. Belval	13 Oct 98	11 Dec 98
" " "	05 Jan 99	21 Feb 99
Jon E. Benedict	13 Oct 98	11 Feb 99
Philip A. Bennett	03 Oct 98	12 Feb 99
David L. Benson	20 Jan 99	03 Feb 99
Terri L. Berkey (winter over)	03 Oct 98	
Steven J. Bertola (winter over#)	24 Aug 97	16 Oct 98
Steven D. Biehn	13 Oct 98	21 Feb 99
Terry A. Billings (winter over#)	31 Oct 97	04 Oct 98
Rick J. Bishop	31 Aug 98	17 Feb 99
Russell A. Bixby (winter over)	22 Aug 98	
Bruce Blackburn	16 Oct 98	18 Feb 99
Charles J. Blackmer	16 Oct 98	19 Feb 99
Angeliana Y. Blackmon	28 Jan 99	12 Feb 99
Leslie A. Blank	19 Nov 98	05 Feb 99
Donald M. Blue	01 Sep 98	17 Feb 99
Kathy Blumm	16 Oct 98	19 Feb 99
Justin W. Bohn	13 Oct 98	18 Feb 99
David H. Bolton	13 Oct 98	18 Feb 99
Paul D. Bomers	31 Aug 98	21 Feb 99
Nicole A. Bonham	02 Nov 98	03 Feb 99
Lenny A. Bonneau	31 Aug 98	03 Oct 98
" " "	16 Oct 98	19 Feb 99
Rhoda F. Bonneau	31 Aug 98	03 Oct 98
" " "	02 Nov 98	19 Feb 99
Benjamin Bonnelo	13 Oct 98	19 Feb 99
Esther R. Boone (winter over#)	16 Feb 98	16 Oct 98
" " " (winter over)	08 Feb 99	
John E. Booth (winter over#)	25 Aug 97	13 Oct 98
" " " (winter over)	17 Feb 99	
Cathy J. Borowsky	01 Sep 98	18 Feb 99
Henry Bourne	16 Oct 98	10 Dec 98
Lester P. Bracey	13 Oct 98	17 Feb 99
Stephanie L. Brackin	03 Oct 98	11 Feb 99
Denise M. Braun	13 Oct 98	21 Feb 99
Harry M. Braun	31 Aug 98	05 Feb 99
Kenneth W. Bray (winter over#)	20 Oct 97	13 Oct 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Daniel L. Brewster	22 Aug 98	18 Feb 99
Sunny G. Brock	01 Sep 98	11 Feb 99
Donald W. Brogan, Jr. (winter over#)	25 Jan 98	13 Oct 98
" " " (winter over)	28 Jan 99	
Brian Brooks (winter over#)	02 Feb 98	03 Oct 98
" " (winter over)	17 Feb 99	
Jeanie M. Brooks	16 Oct 98	18 Feb 99
Roy W. Brossman	22 Aug 98	18 Feb 99
Clyde L. Brown (winter over)	17 Feb 99	
Garland L. Brown	31 Aug 98	21 Feb 99
Julia E. Brown	13 Oct 98	21 Feb 99
Linda A. Brown	16 Oct 98	17 Feb 99
Steven W. Brown (winter over#)	01 Feb 98	03 Oct 98
Stephen M. Brownell (winter over#)	16 Oct 97	03 Oct 98
Steven C. Bruce (winter over#)	05 Oct 97	03 Oct 98
" " " (winter over)	05 Feb 99	
Max D. Brumley	13 Oct 98	17 Feb 99
" " " (winter over)	21 Feb 99	
Daniel R. Bryan (winter over#)	25 Aug 97	18 Dec 98
" " "	08 Dec 98	08 Feb 99
Dina L. Buck	13 Oct 98	08 Feb 99
Randy J. Burbach	13 Oct 98	17 Feb 99
Carl M. Burdick	16 Oct 98	19 Feb 99
Dorothy E. Burke	13 Oct 98	17 Feb 99
Kathleen Burke	04 Oct 98	21 Feb 99
Derrold C. Burnett	11 Jan 99	19 Feb 99
Christopher S. Burns	19 Nov 98	21 Feb 99
Timothy R. Burns	03 Oct 98	11 Feb 99
Jay S. Burnside	22 Aug 98	18 Feb 99
Amber R. Burton	03 Oct 98	08 Feb 99
Brian K. Butler	16 Oct 98	21 Feb 99
Richard C. Callan	22 Oct 98	14 Dec 98
" " "	15 Dec 98	08 Feb 99
Mark J. Campbell (winter over#)	05 Jan 98	13 Oct 98
" " " (winter over)	28 Jan 99	
Stacy L. Cannon	02 Nov 98	08 Feb 99
Ronald X. Caputo	13 Oct 98	14 Jan 99
Cynthia L. Carney	04 Oct 98	19 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Kristyn R. Carney	13 Oct 98	18 Feb 99
Lionel L. Carpenter (winter over#)	16 Feb 98	03 Oct 98
" " " (winter over)	12 Feb 99	
Cami G. Carr	01 Sep 98	19 Feb 99
Steven E. Carr	01 Sep 98	19 Feb 99
Renaldo A. Carrington	04 Oct 98	18 Feb 99
Valerie Carroll	28 Jan 99	11 Feb 99
Charles S. Carson (winter over#)	07 Feb 98	03 Oct 98
" " " (winter over)	12 Feb 99	
Jonathan J. Carter	13 Oct 98	07 Nov 98
John C. Casady (winter over)	17 Feb 99	
Barbara A. Casement	13 Oct 98	19 Feb 99
Thomas L. Cashler	13 Oct 98	18 Feb 99
Richard A. Caveness	01 Sep 98	18 Feb 99
Durant H. Cephers (winter over)	22 Aug 98	
James L. Chambers	02 Jan 99	18 Feb 99
Frederick J. Chambers, Jr. (winter over#)	01 Feb 98	13 Oct 98
" " " (winter over)	12 Feb 99	
Bob Champoux	31 Aug 98	21 Feb 99
Nola K. Chandler	22 Oct 98	05 Feb 99
Nick D. Chapel	16 Oct 98	08 Feb 99
Vicki L. Chavka	02 Nov 98	08 Feb 99
Alexander L. Chin	16 Oct 98	08 Feb 99
Kirstine M. Christensen	03 Oct 98	11 Feb 99
Barbara A. Clampet	13 Oct 98	19 Feb 99
John J. Clampet	13 Oct 98	21 Feb 99
Johnnie E. Clark	22 Oct 98	17 Dec 98
Lawrence L. Cleavelin	14 Nov 98	10 Dec 98
Jerome J. Cloutier (winter over)	21 Feb 99	
Susan Codega	13 Oct 98	19 Feb 99
Timothy P. Coffey	22 Oct 98	28 Jan 99
Theresa L. Coffin (winter over#)	01 Oct 97	13 Oct 98
" " " (winter over)	28 Jan 99	
Marilyn P. Cohenour	31 Aug 98	18 Feb 99
Douglas J. Cohn (winter over#)	31 Jan 98	03 Oct 98
Lucille M. Cole	13 Oct 98	08 Feb 99
Alexander H. Colhoun	16 Oct 98	08 Feb 99
Karla D. College	16 Oct 98	12 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Cynthia C. Collins (winter over#)	22 Jan 98	16 Oct 98
Bryan J. Collom (winter over#)	06 Feb 98	03 Oct 98
Brian J. Connell	03 Oct 98	11 Feb 99
Keith A. Conrey	22 Oct 98	06 Dec 98
Orinda N. Conway	31 Aug 98	21 Feb 99
Randall W. Conway	31 Aug 98	21 Feb 99
Richard L. Cooper	13 Oct 98	17 Dec 98
Steven W. Cooper	13 Oct 98	18 Feb 99
Ellen R. Copeland	04 Oct 98	05 Feb 99
John H. Corbin	16 Oct 98	17 Feb 99
Kathleen Corcoran	31 Aug 98	17 Feb 99
Rex M. Cortner (winter over#)	16 Feb 98	03 Oct 98
Dennis L. Costello (winter over#)	01 Feb 98	16 Oct 98
" " " (winter over)	28 Jan 99	
Rex E. Cotten	31 Aug 98	18 Feb 99
Hugh B. Cowan (winter over)	20 Jan 99	
Annie K. Coward (winter over)	13 Oct 98	
Donald Cox	13 Oct 98	18 Feb 99
Vincent R. Cox (winter over#)	17 Oct 97	16 Oct 98
" " "	01 Nov 98	05 Feb 99
Jamie P. Coyne	13 Oct 98	05 Feb 99
Leigh D. Crabtree	04 Dec 98	03 Feb 99
Atlas Craig	22 Oct 98	18 Feb 99
Jeffrey J. Craig	13 Oct 98	08 Feb 99
Emma A. Crawford	16 Oct 98	28 Jan 99
Gerald L. Crist	31 Aug 98	08 Feb 99
Robert R. Croke	04 Dec 98	03 Feb 99
Mariah J. Crossland	16 Oct 98	01 Feb 99
David J. Crawl (winter over#)	11 Feb 98	31 Aug 98
Ingrid M. Crawl (winter over#)	11 Feb 98	31 Aug 98
Sonny Culbreath (winter over#)	25 Aug 97	13 Oct 98
" " (winter over)	12 Feb 99	
Christopher J. Cuning	03 Oct 98	12 Feb 99
Dodds L. Cupit, Jr.	31 Aug 98	19 Feb 99
Anja Curiskis	16 Oct 98	17 Feb 99
Alfred M. Curtis	03 Oct 98	21 Feb 99
Jean B. Curtis	03 Oct 98	21 Feb 99
Jesus Cutchon	28 Jan 99	12 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Amy E. Dahl (winter over#)	25 Aug 97	03 Oct 98
" " "	16 Oct 98	15 Jan 99
Tracy S. Dahl (winter over#)	27 Aug 97	03 Oct 98
" " "	16 Oct 98	15 Jan 99
Anne Dal Vera	03 Oct 98	16 Oct 98
" "	29 Oct 98	19 Feb 99
William F. Daly	22 Oct 98	19 Feb 99
George W. Danforth	13 Oct 98	22 Feb 99
Paul C. Daniels (winter over)	21 Feb 99	
Seth B. Dauphin	31 Aug 98	11 Feb 99
Donald J. Davis (winter over#)	04 Feb 98	22 Oct 98
Kenneth L. Davis	09 Nov 98	18 Feb 99
Angela V. Dawson	16 Oct 98	17 Feb 99
Charles J. Day	03 Oct 98	05 Jan 99
Patrick W. De Cory	13 Oct 98	22 Feb 99
Shelly J. De Nike	13 Oct 98	09 Jan 99
David R. Denny	13 Oct 98	18 Feb 99
Jeffrey E. Derry	13 Oct 98	05 Feb 99
Theodore J. Dettmar	31 Aug 98	05 Feb 99
Paul B. Dietsche	13 Oct 98	23 Jan 99
" " " (winter over)	03 Feb 99	
Sharon L. Digiacomo	20 Nov 98	08 Feb 99
William F. Dingfelder	19 Nov 98	08 Feb 99
Thomas H. Dishneau (winter over#)	16 Feb 98	03 Oct 98
" " " (winter over)	17 Feb 99	
James L. Dobbs	31 Aug 98	19 Feb 99
Joshua L. Dobyms	02 Nov 98	08 Feb 99
Joseph K. Doggett	16 Oct 98	27 Oct 98
Jose R. Dominguez (winter over#)	16 Feb 98	01 Nov 98
" " " (winter over)	17 Feb 99	
Keith C. Dreher (winter over#)	25 Aug 97	16 Oct 98
Sean H. Duke (winter over#)	22 Dec 97	03 Oct 98
Stephen P. Dunbar	31 Aug 98	18 Feb 99
Craig M. Dunne (winter over#)	01 Oct 97	13 Oct 98
" " " (winter over)	05 Feb 99	
Ross E. Dupuis (winter over#)	31 Aug 98	17 Feb 99
Jeanne Duran	29 Oct 98	16 Jan 99
Thomas K. Edwards (winter over#)	21 Aug 97	13 Oct 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Harry A. Egeland (winter over#)	21 Aug 97	03 Oct 98
Roy S. Egeland	22 Aug 98	22 Feb 99
Mark J. Eisinger	13 Oct 98	18 Feb 99
James P. Ekins	13 Oct 98	08 Feb 99
Paula J. Elliott	01 Sep 98	11 Feb 99
Willive I. Elliott	01 Sep 98	18 Feb 99
Lonnie R. Ely (winter over#)	08 Oct 97	13 Oct 98
" " " (winter over)	05 Feb 99	
Joni G. English	03 Oct 98	17 Feb 99
Kevin C. Ensley (winter over#)	13 Oct 98	23 Jan 99
" " " (winter over)	01 Feb 99	
Christopher L. Erb (winter over#)	08 Oct 97	13 Oct 98
Betty L. Erickson	31 Aug 98	08 Feb 99
Arthur A. Escamilla	28 Jan 99	12 Feb 99
Zenobia E. Evans (winter over#)	06 Oct 97	03 Oct 98
Elizabeth M. Evenson	16 Oct 98	11 Feb 99
Thomas D. Evenson	04 Oct 98	08 Feb 99
Kimberly M. Fabre	16 Oct 98	05 Feb 99
Sherri Fabre	04 Oct 98	19 Feb 99
Brandi Fairchild	13 Oct 98	08 Feb 99
James H. Fairchild	22 Oct 98	21 Feb 99
Nancy A. Farrell	04 Oct 98	18 Feb 99
Lisa R. Ferber	02 Nov 98	07 Jan 99
Jennifer Ferrill	13 Oct 98	18 Feb 99
Jill A. Ferris	13 Oct 98	03 Feb 99
Donald W. Ferris, Jr.	08 Jan 99	03 Feb 99
Virginia S. Figlar	22 Oct 98	11 Feb 99
Douglas A. Fink (winter over)	13 Oct 98	
Garth Finley	04 Oct 98	08 Feb 99
Timothy O. Fitzgibbon	13 Oct 98	19 Feb 99
Megan Flanagan	13 Oct 98	21 Feb 99
Robert L. Fleming	16 Oct 98	18 Feb 99
Jay A. Foraker (winter over)	17 Feb 99	
Stephen H. Forguson (winter over#)	25 Aug 97	22 Aug 98
" " "	04 Oct 98	08 Feb 99
Timothy S. Foster (winter over)	13 Oct 98	
Remy D. Fourre	19 Nov 98	14 Dec 98
Thomas A. Fouts	04 Oct 98	18 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Jennifer L. Fox	31 Aug 98	08 Feb 99
Jimmie Fox	20 Nov 98	01 Feb 99
Spencer J. Fox (winter over)	01 Feb 99	
Joel Foy	12 Dec 98	21 Feb 99
Todd R. Franson	13 Oct 98	18 Feb 99
Cynthia L. Frazee	16 Oct 98	19 Feb 99
Gregory R. Frederick	13 Oct 98	19 Feb 99
Dianna G. Freeman	04 Oct 98	27 Dec 98
J B Freeman	22 Oct 98	18 Feb 99
Belinda Freet	16 Oct 98	19 Feb 99
Benjamin Froemming	20 Nov 98	21 Feb 99
Mimi N. Fujino	13 Oct 98	18 Feb 99
Carl D. Furra J R	22 Oct 98	21 Feb 99
Raymond J. Gabriel, II	03 Oct 98	21 Feb 99
Jason R. Gabriel	13 Oct 98	18 Feb 99
Melba Gabriel	03 Oct 98	21 Feb 99
Ronald E. Gabriel	22 Aug 98	18 Feb 99
Patrick D. Gainey	31 Aug 98	21 Feb 99
Jerry M. Galang	28 Jan 99	12 Feb 99
Gerard J. Gales (winter over#)	01 Oct 97	03 Oct 98
John Gallagher	25 Oct 98	20 Jan 99
Michael B. Galvin	03 Oct 98	22 Feb 99
Christine M. Gamble	22 Oct 98	01 Feb 99
" " " (winter over)	08 Feb 99	
Jose R. Garcia	13 Oct 98	28 Jan 99
" " " (winter over)	17 Feb 99	
Reed N. Gard	16 Oct 98	21 Feb 99
Dale L. Gardner	13 Oct 98	21 Feb 99
Angela L. Garner (winter over)	01 Sep 98	
Jennifer L. Garner	16 Oct 98	17 Feb 99
Samuel W. Geary, Jr.	13 Oct 98	09 Jan 99
" " " (winter over)	20 Jan 99	
Todd C. Geary	16 Oct 98	22 Feb 99
Evelyn L. Genkinger	04 Oct 98	21 Feb 99
Douglas A. Gerdes	13 Oct 98	22 Feb 99
Maria L. Gesicki	13 Oct 98	14 Jan 99
" " " (winter over)	22 Jan 99	
Carl E. Giacchi	13 Oct 98	22 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Ashley D. Giles	16 Oct 98	19 Feb 99
Patrick Gilliam	14 Nov 98	10 Dec 98
Robert W. Gilmore	13 Oct 98	21 Feb 99
William Y. Gilmore	02 Nov 98	08 Feb 99
Melvin H. Glover III (winter over)	01 Sep 98	
Adam J. Gmyrek	16 Oct 98	28 Jan 99
Harold G. Gober (winter over#)	25 Jan 97	13 Oct 98
" " " (winter over)	05 Jan 99	
Judy A. Goldsberry	04 Oct 98	11 Feb 99
Jeanne C. Goodman	16 Oct 98	18 Feb 99
Glenn H. Gordon	16 Oct 98	11 Feb 99
Vincent J. Gordon	01 Sep 98	18 Feb 99
Elizabeth A. Gorrilla	16 Oct 98	18 Feb 99
Carol V. Gould	16 Oct 98	08 Jan 99
Cassandra J. Graber	22 Oct 98	17 Feb 99
Carroll J. Grand Pre	04 Oct 98	11 Feb 99
Harold W. Grandchamp	13 Oct 98	19 Feb 99
Paul R. Grandchamp (winter over#)	27 Aug 97	16 Oct 98
" " " (winter over)	28 Jan 99	
Brooke M. Grant	31 Aug 98	21 Feb 99
David P. Green	16 Oct 98	12 Feb 99
Richard J. Grillo (winter over)	13 Oct 98	
Robert Guidi	14 Nov 98	03 Feb 99
Sarah S. Gundlach	16 Oct 98	11 Feb 99
Jonathan P. Gurney	03 Oct 98	19 Feb 99
Linda L. Gurney	13 Oct 98	19 Feb 99
Bill E. Haals	22 Aug 98	08 Feb 99
Alicia C. Hadfield	09 Dec 98	19 Feb 99
John P. Hahn, Jr. (winter over#)	25 Aug 97	03 Oct 98
" " " (winter over)	05 Feb 99	
Kelly D. Hance	31 Aug 98	21 Feb 99
David M. Haney	13 Oct 98	18 Feb 99
Nancy E. Hannah (winter over#)	25 Aug 97	03 Oct 98
" " " (winter over)	17 Feb 99	
Ronald E. Hannah	13 Oct 98	21 Feb 99
Melissa Hannon	13 Oct 98	08 Feb 99
Ria Harboe (winter over#)	30 Jan 98	25 Oct 98
Grant E. Hark	01 Nov 98	18 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
David Harris	01 Sep 98	18 Feb 99
Sarah C. Harvey	09 Nov 98	12 Feb 99
Brad A. Hasley	01 Nov 98	19 Feb 99
John H. Hatcher, III	02 Jan 99	05 Feb 99
James W. Hathaway	03 Oct 98	03 Feb 99
John Havlik	08 Nov 98	18 Feb 99
John Hawkins	16 Oct 98	08 Feb 99
Ronald D. Hays	13 Oct 98	29 Dec 98
" " " (winter over)	28 Jan 99	
Philip C. Hayward	22 Oct 98	22 Feb 99
Emily Heikkala (winter over#)	09 Feb 98	13 Oct 98
Joseph J. Heil, III	13 Oct 98	21 Feb 99
Ronald J. Hendricks (winter over#)	12 Feb 98	03 Oct 98
" " " (winter over)	28 Jan 99	
Stephen M. Hendricks	13 Oct 98	09 Jan 99
" " " (winter over)	20 Jan 99	
Justin O. Henkel	16 Oct 98	08 Feb 99
Troy R. Henkels (winter over#)	06 Oct 97	13 Oct 98
Teresa H. Herbert	22 Oct 98	06 Dec 98
William F. Herren	22 Oct 98	18 Feb 99
Carl J. Hess	13 Oct 98	19 Feb 99
Lee Anne Hess	23 Dec 98	08 Jan 99
Terri S. Hess	01 Nov 98	19 Feb 99
John H. Hewins (winter over#)	26 Oct 97	03 Oct 98
Susan L. Heyob	13 Oct 98	21 Feb 99
James W. Hibbs (winter over#)	25 Jan 98	03 Oct 98
Richard P. Hicks (winter over#)	25 Aug 97	16 Oct 98
John W. Hickson	31 Aug 98	18 Feb 99
Jonathan J. Hinton (winter over)	05 Feb 99	
Mark C. Hitchcock	13 Oct 98	05 Feb 99
" " " (winter over)	17 Feb 99	
Garrett H. Hixon	04 Oct 98	21 Feb 99
Mary M. Hodgins	13 Oct 98	19 Feb 99
Steven J. Hoehne	13 Oct 98	08 Feb 99
" " " (winter over)	17 Feb 99	
Dennis J. Hoffman (winter over)	31 Aug 98	
Deborah Hofford	16 Oct 98	21 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Alan P. Hogan (winter over#)	25 Aug 97	03 Oct 98
" " "	22 Oct 98	17 Feb 99
Mary K. Hogan (winter over)	21 Feb 99	
Peter G. Hokenstad	13 Oct 98	08 Feb 99
Jeremy H. Holleman	04 Oct 98	13 Oct 98
" " "	01 Nov 98	17 Feb 99
Tasha M. Hollerbach	13 Oct 98	19 Feb 99
Eric J. Holm	13 Oct 98	18 Feb 99
Michael T. Holt	02 Nov 98	05 Feb 99
Patrick B. Holton	13 Oct 98	17 Feb 99
Elaine S. Hood	22 Oct 98	18 Feb 99
Gerald M. Horning (winter over)	02 Nov 98	
Tommy G. Horton	13 Oct 98	03 Feb 99
Wayne T. Howard	03 Oct 98	14 Jan 99
Franklin K. Howell	10 Jan 99	08 Feb 99
John E. Hurdelbrink (winter over#)	16 Feb 98	13 Oct 98
Derek Hurley	04 Oct 98	08 Feb 99
Matthew L. Hurley (winter over#)	02 Oct 97	03 Oct 98
Christine M. Hush	03 Oct 98	21 Feb 99
Michael F. Hush	22 Aug 98	21 Feb 99
Rebecca L. Hutchins	13 Oct 98	19 Feb 99
Janet M. Iler (winter over#)	12 Feb 98	03 Oct 98
" " "	22 Oct 98	19 Feb 99
Andrea L. Isgro	22 Oct 98	05 Feb 99
Dennis E. Jackson	16 Oct 98	22 Feb 99
Richard Jackson	09 Dec 98	19 Feb 99
Jan C. Jasperson	16 Oct 98	01 Feb 99
" " " (winter over)	05 Feb 99	
Jonathan D. Jastram	16 Oct 98	22 Feb 99
Yale B. Jeffery	02 Nov 98	28 Jan 99
" " " (winter over)	05 Feb 99	
Rachel E. Jenkins	03 Oct 98	19 Feb 99
Eivind B. Jensen	01 Nov 98	11 Feb 99
John Johannasen	01 Sep 98	01 Dec 98
Bradley H. Johnson	16 Oct 98	18 Feb 99
Darin N. Johnson	16 Oct 98	18 Feb 99
James G. Johnson	22 Aug 98	06 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Keros S. Johnson	02 Nov 98	11 Feb 99
" " " (winter over)	19 Feb 99	
Terry L. Johnson	30 Oct 98	06 Dec 98
Paul R. Jolicoeur	03 Oct 98	21 Feb 99
Alana C. Jones (winter over#)	01 Feb 98	13 Oct 98
James T. Jones (winter over)	12 Feb 99	
Scott B. Jones	31 Aug 98	19 Feb 99
Sharman K. Jones	16 Oct 98	23 Jan 99
Brenda Joyce	03 Oct 98	11 Feb 99
Karen L. Joyce	13 Oct 98	19 Feb 99
Ernest H. Joynt, III	13 Oct 98	08 Feb 99
James M. Judd	01 Sep 98	18 Feb 99
Nancy E. Juergens	09 Nov 98	12 Feb 99
Robert A. Jungk	09 Nov 98	03 Dec 98
Gregg P. Kaczmarczyk (winter over#)	06 Oct 97	03 Oct 98
" " "(winter over)	17 Feb 99	
David C. Kane (winter over)	02 Nov 98	
Steven C. Kanewske	22 Oct 98	19 Feb 99
David B. Karnes	13 Oct 98	18 Feb 99
Susan D. Kaspari	13 Oct 98	08 Feb 99
Erika Kassop	31 Aug 98	21 Feb 99
Melissa A. Katz	13 Oct 98	18 Feb 99
Glen Kay	09 Nov 98	15 Jan 99
Jeffrey A. Kay	16 Oct 98	19 Feb 99
Jeanne M. Kelley (winter over#)	05 Oct 97	16 Oct 98
Joel M. Kelley (winter over#)	05 Oct 97	22 Aug 98
Dennis J. Kenley, Jr.	01 Sep 98	06 Dec 98
Cheryl A. Kepler (winter over#)	13 Feb 98	13 Oct 98
Chandra L. Kester	01 Sep 98	11 Feb 99
Romayne M. Ketcha	13 Oct 98	08 Feb 99
Kevin Key (winter over)	17 Feb 99	
Kathleen M. Keys	03 Oct 98	21 Feb 99
Richard D. Kidwell	13 Oct 98	23 Jan 99
Kevin Killilea	16 Oct 98	08 Feb 99
Lloyd C. Kimball	16 Oct 98	08 Feb 99
Darrell J. Kimmes	04 Oct 98	21 Feb 99
Randy R. Kimmes	13 Oct 98	21 Jan 99
" " " (winter over)	01 Feb 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Mary D. Kincaid	01 Nov 98	03 Feb 99
Thomas P. King	03 Oct 98	08 Feb 99
Matthew Kippenhan	13 Oct 98	08 Feb 99
Kathryn M. Kish	09 Dec 98	08 Jan 99
Alison Klein (winter over#)	14 Feb 98	13 Oct 98
" " (winter over)	05 Feb 99	
Don Knauer	01 Sep 98	20 Nov 98
Ronald G. Koger	22 Aug 98	31 Aug 98
" " "	20 Nov 98	27 Dec 98
Ingrid Kohlstadt	13 Oct 98	12 Jan 99
William F. Koleto, Jr.	01 Nov 98	23 Nov 98
" " "	13 Oct 98	21 Feb 99
Steven T. Kottmeier	03 Oct 98	01 Dec 98
Michael R. Krall	31 Aug 98	11 Feb 99
Sarah S. Krall	13 Oct 98	11 Feb 99
Greg W. Krauss	01 Sep 98	17 Feb 99
Christopher Kugelman	01 Sep 98	18 Feb 99
Marin C. Kuizenga	04 Oct 98	17 Feb 99
Joseph T. Kujawski	30 Oct 98	11 Feb 99
Daniel R. Kunze	31 Aug 98	18 Feb 99
Curtis D. La Bombard	03 Oct 98	08 Feb 99
Robin L. La Plant	04 Oct 98	12 Feb 99
John C. Lamb	13 Oct 98	23 Jan 99
George E. Lampman (winter over)	17 Feb 99	
Carroll B. Land (winter over)	05 Feb 99	
Victoria G. Landgraf	16 Oct 98	28 Jan 99
" " " (winter over)	17 Feb 99	
David J. Landstrom	22 Oct 98	05 Feb 99
Robert F. Lanterman (winter over)	01 Sep 98	
Christy T. Lappegaard	01 Sep 98	12 Feb 99
Jerome A. Lappegaard	13 Oct 98	11 Feb 99
Kenneth E. Laskowski (winter over)	13 Oct 98	
Robert J. Laus	01 Nov 98	08 Feb 99
William J. Layman, Jr (winter over)	22 Aug 98	
Peter LeGrand	16 Oct 98	15 Nov 98
Jacqueline L. Learned	01 Sep 98	08 Jan 99
" " " (winter over)	28 Jan 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Thomas W. Learned	13 Oct 98	07 Jan 99
" " " (winter over)	03 Feb 99	
Susan Lee	03 Oct 98	21 Feb 99
Thomas E. Lefevre (winter over#)	02 Oct 97	03 Oct 98
Gregory S. Lehman	31 Aug 98	18 Feb 99
Marie E. Lehnerer	16 Oct 98	19 Feb 99
Jason Lemaster (winter over#)	09 Feb 98	22 Aug 98
Mark J. Lemke (winter over)	17 Feb 99	
Carmen M. Lemon (winter over)	13 Oct 98	
Mary C. Leonard	16 Oct 98	18 Feb 99
Randy T. Leuthard (winter over#)	16 Feb 98	22 Oct 98
" " (winter over)	21 Feb 99	
Christine M. Levesque	16 Oct 98	21 Feb 99
Lawrence E. Levin (winter over)	01 Sep 98	
Robert S. Levinson	13 Oct 98	17 Feb 99
Cynthia C. Lewis	16 Oct 98	18 Feb 99
Sharon M. Lewis	13 Oct 98	18 Feb 99
Robert A. Liben	22 Oct 98	18 Feb 99
Christopher D. Liljenstolpe (winter over#)	17 Jan 98	22 Oct 98
Matthew R. Lindell	01 Sep 98	17 Feb 99
James M. Lis	03 Oct 98	18 Feb 99
Debra P. Lisik (winter over#)	06 Oct 97	13 Oct 98
" " " (winter over)	05 Feb 99	
George Lisik (winter over#)	06 Oct 97	13 Oct 98
" " (winter over)	05 Feb 99	
Terry J. Litman	19 Nov 98	19 Feb 99
Dennis E. Lofstrom (winter over#)	12 Feb 98	22 Oct 98
Paula Lofstrom (winter over#)	12 Feb 98	22 Oct 98
Michiel E. Lofton	16 Oct 98	03 Feb 99
Kirk A. Loucks	13 Oct 98	14 Dec 98
Jessica I. Lovato	03 Oct 98	14 Dec 98
" " "	02 Jan 99	18 Feb 99
Robin L. Lovato	13 Oct 98	17 Feb 99
Ann C. Lowery (winter over)	13 Oct 98	
Kathryn C. Loyd	02 Nov 98	17 Feb 99
Ryan E. Luedtke	03 Oct 98	21 Feb 99
Peter M. Lund	31 Aug 98	15 Jan 99
" " " (winter over)	28 Jan 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Anita L. Luster	01 Nov 98	08 Feb 99
Loren T. Luyendyk	04 Oct 98	03 Feb 99
Bevin A. Lynch (winter over)	05 Feb 99	
Sally A. Lyon	13 Oct 98	01 Feb 99
Amy L. Madden (winter over#)	25 Jan 98	03 Oct 98
Thomas R. Magness	13 Oct 98	18 Feb 99
Gregory J. Majerus, Jr.	13 Oct 98	17 Feb 99
Michelle R. Majerus	13 Oct 98	19 Feb 99
Nicole R. Majerus (winter over#)	27 Aug 97	03 Oct 98
Larry C. Male	28 Jan 99	11 Feb 99
Mary M. Malloy	01 Sep 98	19 Feb 99
Brendan P. Malone	13 Oct 98	08 Feb 99
Benjamin S. Mann (winter over#)	27 Aug 97	16 Oct 98
" " " (winter over)	05 Feb 99	
Jacy L. Manzke	03 Oct 98	12 Feb 99
Peter A. Marchetti	04 Oct 98	03 Feb 99
Thomas W. Marhold	03 Oct 98	22 Feb 99
David W. Marion (winter over#)	16 Feb 98	03 Oct 98
Patricia A. Maroda	13 Oct 98	08 Feb 99
Christopher M. Martin	12 Nov 98	19 Feb 99
Craig J. Martin	15 Jan 99	05 Feb 99
Marvin E. Martin (winter over)	01 Sep 98	
Christopher D. Masters	22 Oct 98	27 Oct 98
" " "	02 Nov 98	20 Dec 98
" " "	30 Dec 98	12 Feb 99
Jeffrey J. Matney (winter over)	31 Aug 98	
Molly E. Mayo	03 Oct 98	19 Feb 99
James B. McAdam (winter over#)	31 Oct 97	22 Oct 98
" " " (winter over)	17 Feb 99	
James H. McCabe	31 Aug 98	11 Feb 99
Nathan A. McCabe	16 Oct 98	12 Feb 99
Patricia C. McCairen (winter over#)	28 Jan 98	03 Oct 98
William J. McCormick	03 Oct 98	11 Feb 99
Joshua A. McCoy (winter over#)	17 Jan 98	13 Oct 98
Karen M. McCoy	13 Oct 98	18 Feb 99
John P. McCullough (winter over)	01 Sep 98	
Frederick D. McDougall (winter over)	21 Feb 99	
Jesse L. McGill	22 Oct 98	12 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Linda G. McGill	04 Oct 98	12 Feb 99
Denton D. McGlothlin	01 Sep 98	19 Feb 99
Patricia S. McGlothlin	16 Oct 98	19 Feb 99
Scott E. McGlothlin	13 Oct 98	11 Feb 99
Chris A. McIntosh	12 Dec 98	08 Feb 99
Jon J. McIntyre (winter over#)	09 Feb 98	13 Oct 98
Alonza B. McKeel	04 Oct 98	01 Feb 99
Randall L. McKenney	01 Sep 98	21 Feb 99
Chris McMaster (winter over#)	25 Aug 97	22 Oct 98
Susan R. McMaster (winter over#)	22 Jan 98	13 Oct 98
Joanne E. McMullen (winter over)	05 Feb 99	
Geordan C. McQuiston	04 Oct 98	08 Feb 99
Shannon B. McRee	03 Oct 98	11 Feb 99
" " " (winter over)	18 Feb 99	
Anna M. Meade	13 Oct 98	17 Dec 98
" " " (winter over)	23 Dec 98	
Jerome C. Meader	22 Aug 98	19 Feb 99
Matthew G. Mechem	13 Oct 98	05 Feb 99
" " " (winter over)	21 Feb 99	
Jason A. Medley	01 Sep 98	03 Feb 99
Terri R. Mehaffey	04 Oct 98	17 Feb 99
Mark B. Melcon	13 Oct 98	21 Feb 99
John R. Meyers	23 Nov 98	03 Dec 98
Barry O. Michaelis (winter over#)	22 Dec 97	03 Oct 98
" " " (winter over)	17 Feb 99	
James G. Mickelson	31 Aug 98	12 Feb 99
Anthony Middlebrooks	22 Oct 98	17 Feb 99
Steven L. Mikel (winter over)	31 Aug 98	
Mathew Milani	01 Sep 98	19 Feb 99
R. T. Milford	16 Oct 98	18 Feb 99
Brandon Q. Miller	16 Oct 98	18 Feb 99
Brian H. Miller	31 Aug 98	08 Feb 99
Daniel R. Miller (winter over#)	16 Feb 98	13 Oct 98
Gary A. Miller	16 Oct 98	19 Feb 99
Stephanie E. Mills (winter over#)	02 Oct 97	22 Oct 98
" " " (winter over)	17 Feb 99	
David J. Minor (winter over)	01 Sep 98	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Larry H. Mjolsness (winter over#)	09 Feb 98	03 Oct 98
" " "(winter over)	12 Feb 99	
Jennifer C. Moe	13 Oct 98	15 Jan 99
" " "(winter over)	01 Feb 99	
Stephanie A. Mohr	01 Sep 98	18 Feb 99
Melvin J. Moore (winter over#)	27 Aug 97	03 Oct 98
" " "	28 Jan 99	17 Feb 99
Sally H. Moore (winter over#)	27 Aug 97	03 Oct 98
Alexander H. Morris	01 Sep 98	19 Feb 99
Jean R. Morrow	05 Feb 99	17 Feb 99
David A. Moschner	03 Oct 98	08 Feb 99
Jennifer D. Moxon (winter over)	04 Oct 98	
Marian E. Moyher	13 Oct 98	12 Feb 99
Elizabeth A. Muck	16 Oct 98	03 Feb 99
" " "(winter over)	17 Feb 99	
Laura A. Mueller	04 Dec 98	19 Feb 99
Robert D. Mueller	01 Sep 98	18 Feb 99
Diana C. Munch	16 Oct 98	01 Feb 99
" " "(winter over)	11 Feb 99	
Jean-Philippe Murad	13 Oct 98	17 Feb 99
Jay K. Murphy (winter over#)	25 Aug 97	03 Oct 98
" " "(winter over)	18 Feb 99	
Laura S. Murphy	22 Oct 98	08 Feb 99
Shonda D. Murray	13 Oct 98	22 Feb 99
Elizabeth A. Musser	31 Aug 98	19 Feb 99
Jason E. Nava	29 Oct 98	28 Jan 99
Kenneth M. Navarro	16 Oct 98	08 Jan 99
Suzanne E. Navarro (winter over)	13 Oct 98	
Dawn M. Needham	01 Sep 98	18 Dec 98
" " "	05 Jan 99	18 Feb 99
David A. Neeley	13 Oct 98	21 Feb 99
Mark S. Neeley	03 Oct 98	15 Dec 98
Barbara J. Nelson	16 Oct 98	01 Feb 99
William J. Nesbit	16 Oct 98	17 Feb 99
Gerald T. Ness (winter over#)	01 Feb 98	12 Aug 98
" " "(winter over#)	31 Aug 98	16 Oct 98
" " "(winter over)	01 Feb 99	
Kelly A. Nevins	13 Oct 98	10 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Darryl R. Nichols (winter over#)	27 Aug 97	13 Oct 98
" " " (winter over)	17 Feb 99	
Kristy A. Nicolaus, II	22 Oct 98	05 Feb 99
Living A. Nightingale	31 Aug 98	21 Feb 99
Steven E. Niles	22 Oct 98	17 Feb 99
Gerald M. Nix	16 Oct 98	21 Feb 99
David M. Nold	31 Aug 98	05 Jan 99
" " " (winter over)	08 Feb 99	
Sean T. Nordquist	13 Oct 98	09 Jan 99
" " " (winter over)	20 Jan 99	
Randall H. Noring	13 Oct 98	03 Feb 99
Carl F. Norris	22 Aug 98	29 Oct 98
" " " (winter over)	17 Feb 99	
Deborah R. Norris	30 Nov 98	10 Dec 98
Gilbert D. Nunez	13 Oct 98	03 Feb 99
Sarah L. Ohlson	16 Oct 98	28 Jan 99
Albert W. O'Kelly	22 Aug 98	21 Jan 99
" " " (winter over)	08 Feb 99	
Jo Marie O'Kelly	13 Oct 98	21 Jan 99
" " " (winter over)	03 Feb 99	
Francine K. Oliver	16 Oct 98	17 Feb 99
Alice R. Orlich	16 Oct 98	18 Feb 99
Denver J. Osborne	16 Oct 98	19 Feb 99
Karen I. O'Shea	22 Oct 98	21 Jan 99
" " "	28 Jan 99	19 Feb 99
Gloria S. Oswald	22 Oct 98	19 Feb 99
Mary J. Overdorf	22 Oct 98	19 Feb 99
Richard L. Owens Jr. (winter over)	13 Oct 98	
Robert H. Palko (winter over#)	16 Feb 98	13 Oct 98
" " " (winter over)	17 Feb 99	
Eric R. Paradis	13 Oct 98	18 Feb 99
Philip T. Parfet	01 Sep 98	03 Feb 99
Rebecca J. Parfet	03 Oct 98	11 Jan 99
Elizabeth E. Parker	04 Oct 98	21 Feb 99
Christi R. Parrott	01 Sep 98	11 Feb 99
Marilyn J. Pauley	01 Sep 98	07 Nov 98
" " "	08 Nov 98	11 Dec 98
" " "	12 Dec 98	17 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Karen E. Pavich	16 Oct 98	18 Feb 99
Jonathan M. Penfield (winter over#)	22 Dec 97	13 Oct 98
Jim P. Penkusky	16 Oct 98	21 Feb 99
Troy D. Penrod	20 Nov 98	19 Feb 99
Richard Perales	08 Nov 98	05 Feb 99
Kimberly A. Perlstein	13 Oct 98	03 Feb 99
Mitchell Perry	30 Oct 98	19 Feb 99
Stephen H. Perry	30 Oct 98	12 Feb 99
Kristin L. Peterson	16 Oct 98	18 Dec 98
" " "	23 Dec 98	10 Feb 99
Jeffrey K. Peterzen	01 Sep 98	19 Feb 99
Joseph R. Pettit (winter over)	13 Oct 98	
Nancy M. Pfeiffer	03 Oct 98	05 Feb 99
Wayne Pflieger	13 Oct 98	27 Dec 98
Rocklynn J. Phillips	13 Oct 98	17 Feb 99
Richard L. Pierce	01 Sep 98	14 Jan 99
" " " (winter over)	28 Jan 99	
Richard P. Pietrek (winter over)	22 Aug 98	
Lee Ann Pipkin	04 Oct 98	18 Feb 99
Efrain Porras	13 Oct 98	18 Feb 99
David L. Porter	31 Aug 98	24 Oct 98
Laura H. Porter	16 Oct 98	08 Feb 99
Lesia D. Prestridge	13 Oct 98	18 Feb 99
Yvonne Price	22 Oct 98	21 Jan 99
" " (winter over)	01 Feb 99	
Barbara G. Propst	16 Oct 98	08 Feb 99
" " " (winter over)	18 Feb 99	
Joan S. Pulse	13 Oct 98	08 Feb 99
Edward A. Quinn	13 Oct 98	22 Feb 99
Thomas F. Quinn, III	16 Oct 98	21 Feb 99
Robert P. Radke	13 Oct 98	19 Feb 99
Ronald K. Rainbow	30 Oct 98	18 Feb 99
James Raml	03 Oct 98	08 Feb 99
Dale I. Randolph	16 Oct 98	11 Feb 99
Jay D. Ranson	01 Sep 98	11 Feb 99
G. L. Rarick	22 Oct 98	19 Feb 99
Gregory Raver	31 Aug 98	18 Feb 99
Jason G. Raver	13 Oct 98	21 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Wendy R. Raver	13 Oct 98	18 Feb 99
Christopher P. Reddin	04 Dec 98	11 Feb 99
Martin J. Reed (winter over#)	25 Aug 97	02 Nov 98
Joseph T. Reichert	22 Oct 98	08 Jan 99
Sarah J. Reid	22 Oct 98	22 Feb 99
Albert Renner	13 Oct 98	18 Feb 99
Carlie F. Reum	13 Oct 98	18 Feb 99
Raul D. Reyes (winter over)	04 Oct 98	
Kevin C. Reynolds	31 Aug 98	19 Feb 99
Christopher M. Rhone	03 Jan 99	03 Feb 99
Linda L. Rhone	22 Oct 98	19 Feb 99
David H. Ricke Jr	16 Oct 98	21 Feb 99
Eric Riley	20 Jan 98	03 Nov 98
Judy K. Ritter	31 Aug 98	21 Feb 99
Dylan S. Roan (winter over)	16 Oct 98	
Robert G. Robbins	22 Aug 98	03 Feb 99
William A. Robertson	31 Aug 98	15 Jan 99
" " " (winter over)	28 Jan 99	
William G. Robertson	02 Nov 98	03 Feb 99
Rhonda K. Rodriguez	16 Oct 98	17 Feb 99
Gregory D. Roes	04 Oct 98	17 Feb 99
Ethan J. Rogers	16 Oct 98	18 Feb 99
Paul N. Rogers (winter over#)	25 Aug 97	03 Oct 98
" " " (winter over)	05 Feb 99	
Rachel F. Rogers	03 Oct 98	18 Feb 99
Dale P. Role	16 Oct 98	22 Feb 99
Roland F. Romero (winter over#)	09 Feb 98	16 Oct 98
Susan M. Root	22 Oct 98	17 Feb 99
David Rosenthal (winter over#)	25 Jan 98	13 Oct 98
Clay A. Rubano	16 Oct 98	17 Feb 99
Mary A. Rubarsky	13 Oct 98	18 Feb 99
Tia M. Rudolph	13 Oct 98	19 Feb 99
Betty Jo Rutledge (winter over)	12 Feb 99	
Kerry S. Rutz	13 Oct 98	19 Feb 99
Michael A. Rutz	22 Oct 98	18 Feb 99
George L. Ryan (winter over#)	11 Oct 97	22 Oct 98
" " "	11 Jan 99	19 Feb 99
Jackie T. Samuel, Sr.	28 Jan 99	12 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Teresa K. Samuels	04 Oct 98	03 Feb 99
Roy E. Santos (winter over#)	27 Aug 97	03 Oct 98
Michael T. Satorie	13 Oct 98	08 Feb 99
Carol A. Savage (winter over#)	14 Feb 98	03 Oct 98
Berndt P. Savig (winter over#)	25 Jan 98	16 Oct 98
Bruce Scanniello	22 Oct 98	19 Feb 99
Jeffrey C. Scanniello	22 Aug 98	21 Feb 99
Christopher M. Scavone (winter over)	12 Feb 99	
Jake W. Schas (winter over)	15 Jan 99	
Monika J. Schernthanner (winter over)	17 Feb 99	
Terry L. Schild	13 Oct 98	18 Feb 99
Galen R. Schlich	04 Oct 98	08 Feb 99
Keith-Douglas Schmidt (winter over#)	17 Jan 98	20 Nov 98
" " " (winter over)	05 Feb 99	
Alan Schoenwald	31 Aug 98	18 Feb 99
Patrick M. Schuman	04 Oct 98	17 Feb 99
Roberta A. Score	22 Aug 98	03 Feb 99
Kristin L. Scott	22 Oct 98	21 Feb 99
Craig A. Sears	31 Aug 98	21 Jan 99
" " " (winter over)	03 Feb 99	
Richard L. Segler (winter over)	05 Feb 99	
Corky J. Self (winter over)	12 Feb 99	
David L. Selzler (winter over)	30 Oct 98	
Nancy L. Sandler	22 Oct 98	05 Feb 99
Cory Shaddox (winter over#)	25 Jan 98	03 Oct 98
Timothy M. Shea (winter over)	31 Aug 98	
Jack Sheets	04 Oct 98	18 Feb 99
Elizabeth D. Sheid (winter over#)	14 Feb 98	22 Aug 98
" " " (winter over)	17 Feb 99	
Robert W. Sheid (winter over#)	14 Feb 98	16 Oct 98
" " " (winter over)	17 Feb 99	
Michael G. Shelton	16 Oct 98	09 Jan 99
Laura J. Sherve (winter over#)	05 Jan 98	22 Oct 98
Dawn E. Shields (winter over#)	23 Feb 98	03 Oct 98
John W. Shigo	22 Aug 98	21 Feb 99
Bryan W. Sholten	19 Nov 98	12 Jan 99
Rebecca J. Shoop	03 Oct 98	21 Feb 99
Beverly D. Shuster	22 Oct 98	19 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Deborah Shuster	12 Nov 98	06 Dec 98
Thomas E. Sibson (winter over)	22 Oct 98	
Annette G. Sickler (winter over)	04 Oct 98	
Rosemary Siebanthaler	13 Oct 98	12 Feb 99
Neysa J. Siedlecki (winter over#)	27 Aug 97	13 Oct 98
" " " (winter over)	05 Feb 99	
Christopher M. Simmons (winter over#)	08 Oct 97	16 Oct 98
John D. Simonson	31 Aug 98	17 Feb 99
" " " (winter over)	21 Feb 99	
Rebecca A. Simonson (winter over#)	23 Jan 98	13 Oct 98
Stephen M. Simpson	01 Sep 98	29 Oct 98
" " " (winter over)	03 Feb 99	
Stephen M. Skicki	13 Oct 98	19 Feb 99
Leif Skulbostad	13 Oct 98	10 Dec 98
Michael L. Slack	04 Oct 98	17 Feb 99
William D. Slattery	03 Oct 98	21 Feb 99
David M. Smith (winter over#)	27 Aug 97	24 Oct 98
" " " (winter over)	05 Feb 99	
Glen A. Smith	09 Dec 98	17 Feb 99
Jonathan J. Smith	31 Aug 98	01 Dec 98
Jonathan W. Smith	31 Aug 98	16 Jan 99
" " " (winter over)	28 Jan 99	
Leonard R. Smith	03 Oct 98	13 Oct 98
Dorian Smithey	16 Oct 98	05 Feb 99
Michael A. Sobel	16 Oct 98	18 Feb 99
Dawn M. Solberg	04 Oct 98	12 Feb 99
Kathleen H. Soutter	13 Oct 98	18 Feb 99
Sharon R. Spain	13 Oct 98	08 Feb 99
Judith C. Spanberger	13 Oct 98	08 Feb 99
Kurt W. Speers	22 Oct 98	05 Feb 99
Joshua J. Spillane (winter over#)	01 Oct 97	22 Aug 98
Donald M. Squier (winter over#)	09 Feb 98	03 Oct 98
" " "	22 Oct 98	17 Feb 99
Colby T. Staley	22 Oct 98	25 Oct 98
Christopher J. Starnes	13 Oct 98	21 Feb 99
Thomas J. Staudt	22 Oct 98	19 Feb 99
Anna L. Stegemoeller	30 Oct 98	28 Jan 99
Thomas Steinert (winter over#)	16 Feb 98	04 Oct 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Joseph G. Stephens	04 Dec 98	19 Feb 99
Kenneth R. Stephens (winter over)	04 Oct 98	
James A. Stephenson	16 Oct 98	15 Jan 99
" " " (winter over)	03 Feb 99	
Joseph E. Stermer (winter over#)	23 Feb 98	16 Oct 98
" " " (winter over)	18 Feb 99	
David J. Stevens (winter over#)	27 Aug 97	03 Oct 98
" " " (winter over)	17 Feb 99	
Patrick D. Stevens (winter over#)	22 Dec 97	03 Oct 98
" " " (winter over)	10 Jan 99	
Shane E. Stevens	31 Aug 98	05 Feb 99
Caprice Stevenson (winter over#)	04 Feb 98	13 Oct 98
David E. Stillie	04 Oct 98	18 Feb 99
Richard G. Stimson (winter over)	13 Oct 98	
Edward R. Stockard (winter over#)	07 Jan 98	13 Oct 98
James A. Stoll	01 Sep 98	19 Feb 99
Alan J. Stone (winter over#)	31 Jan 97	31 Aug 98
" " "	02 Nov 98	18 Feb 98
Joshua A. Stone	13 Oct 98	19 Feb 99
Hope Stout	01 Sep 98	03 Feb 99
Roren L. Stowell (winter over)	01 Sep 98	
Holly K. Stumpf (winter over#)	16 Feb 98	03 Oct 98
Douglas F. Stuth (winter over)	21 Feb 99	
Jeanne C. Suchodolski	03 Oct 98	19 Feb 99
Sean T. Sullivan	16 Oct 98	17 Feb 99
Duane Sundin (winter over#)	09 Feb 98	16 Oct 98
" " (winter over)	17 Feb 99	
Kyle C. Sundrup	13 Oct 98	18 Feb 99
Elizabeth-Anne Sutter	13 Oct 98	28 Jan 99
Frank L. Sutton	16 Oct 98	28 Jan 99
Marco A. Svoboda	22 Oct 98	21 Feb 99
Thomas J. Swartz, Jr. (winter over#)	05 Dec 97	03 Oct 98
Debbra Sweda	04 Oct 98	17 Feb 99
Eileen C. Tams (winter over)	28 Jan 99	
Stacie M. Tanner	13 Oct 98	11 Feb 99
Scott C. Taube	13 Oct 98	05 Feb 99
Michael G. Tayloe	22 Aug 98	17 Feb 99
Rosemary R. Taylor	01 Sep 98	19 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
William Taylor (winter over#)	09 Feb 98	03 Oct 98
Gary W. Teetsell (winter over)	11 Feb 99	
Sandra K. Terry	13 Oct 98	06 Dec 98
" " "	09 Dec 98	05 Feb 99
Christopher M. Teske (winter over#)	06 Oct 97	13 Oct 98
James E. Thate	09 Nov 98	11 Feb 99
Adam L. Thompson	13 Oct 98	18 Feb 99
Douglas A. Thompson	13 Oct 98	11 Feb 99
John B. Thompson, IX	04 Oct 98	18 Feb 99
William A. Thompson (winter over)	01 Sep 98	
Paul E. Thur	04 Oct 98	15 Jan 99
" " " (winter over)	03 Feb 99	
Paul A. Tomasi	16 Oct 98	01 Dec 98
Andrew J. Trautman	16 Oct 98	21 Feb 99
Elizabeth Traver	22 Oct 98	21 Jan 99
" " (winter over)	03 Feb 99	
Anthony L. Trikilas	04 Dec 98	10 Dec 98
" " "	15 Dec 98	27 Dec 98
Daniel D. Trimarco	08 Nov 98	01 Dec 98
Richardo S. Trujillo	13 Oct 98	18 Feb 99
Jonnette P. Tuft (winter over)	13 Oct 98	
David J. Turley	22 Aug 98	11 Feb 99
William J. Turnbull	22 Aug 98	17 Dec 98
" " "	28 Dec 98	21 Feb 99
Julia M. Uberuaga	04 Oct 98	18 Feb 99
Cherie J. Ude (winter over#)	25 Jan 98	16 Oct 98
" " " (winter over)	17 Feb 99	
Richard A. Vaitonis (winter over#)	06 Oct 97	13 Oct 98
James V. Van Matre	16 Oct 98	05 Feb 99
Kurt Vangelder	19 Nov 98	17 Feb 99
Kim V. Vargo	16 Oct 98	03 Feb 99
Michael L. Varney	04 Oct 98	18 Feb 99
Timothy W. Vaughan	13 Oct 98	28 Jan 99
Brandon Vernon	31 Aug 98	19 Feb 99
Thomas E. Vernon	31 Aug 98	19 Feb 99
Anne C. Vick	04 Oct 98	08 Feb 99
Mark Vincent (New Zealand)	05 Feb 99	08 Feb 99
Tom Vinson	01 Nov 98	18 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Eric D. Volkert	19 Nov 98	28 Jan 99
" " " (winter over)	17 Feb 99	
Kristin A. Wadle	08 Jan 99	03 Feb 99
Bonnie S. Walker (winter over#)	01 Feb 98	04 Oct 98
" " "	04 Dec 98	19 Feb 99
Zachariah L. Walker	13 Oct 98	11 Feb 99
Christopher J. Walton (winter over#)	12 Feb 98	13 Oct 98
" " " (winter over)	05 Feb 99	
Betty Lou M. Wass	13 Oct 98	12 Feb 99
James A. Wass	13 Oct 98	12 Feb 99
Jeanine F. Watkins (winter over)	03 Oct 98	
Terri L. Watson	30 Oct 98	01 Feb 99
Dave A. Weber (winter over#)	12 Feb 98	16 Oct 98
Randy W. Weinmeister (winter over)	12 Feb 99	
Michael J. Wekenborg (winter over#)	04 Feb 98	13 Oct 98
David L. Werner	31 Aug 98	17 Feb 99
Shelly K. Weston	22 Oct 98	05 Feb 99
Courtney E. Whalen-Benedict	13 Oct 98	08 Feb 99
Brian P. Wheeler	22 Aug 98	22 Feb 99
Susan L. Wheeler	04 Oct 98	18 Feb 99
John B. White Jr. (winter over)	01 Sep 98	
Andrew D. White	16 Oct 98	19 Feb 99
Steven C. White	16 Oct 98	19 Feb 99
David L. Whitmore	01 Nov 98	22 Feb 99
Mimi K. Whitney (winter over)	01 Nov 98	
Kenneth Wilbert	13 Oct 98	05 Feb 99
Everett A. Wilkerson	13 Oct 98	11 Feb 99
Adrienne D. Willeford (winter over)	13 Oct 98	
Christopher T. Williams (winter over#)	09 Feb 98	08 Feb 99
David Williams	19 Nov 98	21 Feb 99
Lisa B. Williams	16 Oct 98	19 Feb 99
William C. Williams (winter over#)	09 Feb 98	03 Oct 98
" " " (winter over)	17 Feb 99	
Shannon M. Wilson	22 Oct 98	08 Feb 99
Christopher T. Wilt (winter over#)	17 Jan 98	22 Oct 98
" " " (winter over)	05 Feb 99	
Robyn Wind	16 Oct 98	17 Feb 99
Bruce Windorski (winter over)	17 Feb 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Stephen D. Wing (winter over)	13 Oct 98	
Gary C. Winslow	22 Oct 98	17 Feb 99
Stanley P. Wisneski, III	16 Oct 98	11 Dec 98
Kimberly R. Wolfe	03 Oct 98	17 Feb 99
Norman O. Wolfe	22 Oct 98	20 Nov 98
Wendy L. Wolfe	16 Oct 98	19 Feb 99
Alan B. Wood (winter over#)	16 Feb 98	13 Oct 98
Debra Woods	13 Oct 98	19 Feb 99
Melinda G. Woods	03 Oct 98	18 Feb 99
Terrence L. Woods	13 Oct 98	19 Feb 99
Karen K. Woolley	31 Aug 98	18 Feb 99
Gary M. Wright	02 Nov 98	08 Feb 99
Joe Yarkin	04 Oct 98	18 Feb 99
Kathy A. Young	31 Aug 98	03 Feb 99
William A. Young	16 Oct 98	18 Feb 99
Marilyn J. Younger (winter over#)	02 Feb 98	04 Oct 98
" " " (winter over)	05 Feb 99	
Mark Zajkowski	13 Oct 98	19 Feb 99
David A. Zastrow	01 Nov 98	11 Feb 99
Tanya L. Zastrow	09 Dec 98	05 Feb 99
Steven R. Zebroski	22 Oct 98	11 Feb 99
Jeffrey K. Zellerhoff	31 Aug 98	12 Feb 99
Stephen J. Zellerhoff	16 Oct 98	11 Feb 99
" " " (winter over)	18 Feb 99	
Libor Zicha (winter over)	13 Oct 98	
David P. Zimmerman	16 Oct 98	19 Feb 99
Robert B. Zook	31 Aug 98	26 Nov 98

South Pole Station Area

Lawrence M. Ahlin, Jr	25 Oct 98	09 Jan 99
Donna Aldrich (winter over)	09 Nov 98	
Robert H. Allard (winter over)	02 Nov 98	
Dennis W. Aukerman (winter over)	15 Jan 99	
Sally B. Ayotte	25 Oct 98	17 Feb 99
Patrick Bailey	02 Nov 98	17 Feb 99
Tommy G. Barker (winter over#)	26 Oct 97	07 Nov 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Lisa M. Beal (winter over)	25 Oct 98	
Sheridan O. Becker	08 Nov 98	23 Jan 99
Wendy R. Beeler (winter over)	05 Feb 99	
Edward T. Blain	20 Jan 99	03 Feb 99
John F. Booth (winter over#)	26 Oct 97	13 Nov 98
Michael J. Boyce	01 Nov 98	12 Feb 99
Yubecca L. Bragg	02 Nov 98	20 Jan 99
" " " (winter over)	12 Jan 99	
Nancy G. Brandt	29 Oct 98	17 Feb 99
Carol A. Braun	13 Oct 98	17 Feb 99
Timothy P. Briggs (winter over)	16 Oct 98	
Richard L. Brown	20 Nov 98	05 Feb 99
Ann Burfeind	29 Oct 98	23 Jan 99
Laura V. Campbell (winter over#)	26 Oct 97	13 Nov 98
Robert D. Carlson (winter over#)	14 Oct 97	03 Nov 98
Thomas L. Carlson (winter over)	25 Oct 98	
Maureen Cassidy	02 Nov 98	23 Jan 99
Land Cole	02 Nov 98	28 Jan 99
Laura Cole	25 Oct 98	28 Jan 99
Neil R. Conant, Jr.	29 Oct 98	17 Feb 99
Jon A. Conrad (winter over#)	26 Oct 97	20 Nov 98
William A. Coughran	13 Oct 98	17 Feb 99
Warren J. Crane	25 Oct 98	17 Feb 99
Christopher F. Craver	02 Nov 98	17 Feb 99
Carol D. Crossland (winter over#)	22 Jan 98	07 Nov 98
Richard K. Denholm	25 Oct 98	17 Feb 99
Christopher P. Denker	25 Oct 98	30 Dec 98
Carolyn A. Doe	16 Oct 98	28 Jan 99
David R. Doyle	20 Nov 98	15 Dec 98
Robert M. Dunn	22 Oct 98	17 Feb 99
Brian R. Ellspermann	16 Oct 98	17 Feb 99
James W. Evans (winter over)	16 Oct 98	
Elisabeth D. Fano (winter over#)	26 Oct 97	03 Nov 98
Walter D. Fischel	01 Nov 98	08 Feb 99
" " " (winter over)	12 Feb 99	
David E. Fischer	25 Oct 98	17 Feb 99
Diane J. Flynn	02 Nov 98	17 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Larry D. Fordyce	02 Nov 98	14 Jan 99
" " " (winter over)	01 Feb 99	
David R. Franco (winter over#)	26 Oct 97	03 Nov 98
Dorianne J. Galarnyk	25 Oct 98	05 Jan 99
John Gallagher	25 Oct 98	17 Feb 99
Loree M. Galpin (winter over)	25 Oct 98	
Chris L. Getz (winter over)	20 Jan 99	
Dar E. Gibson (winter over)	25 Oct 98	
Michael L. Gomez	16 Oct 98	08 Feb 99
Bettie K. Grant	25 Oct 98	17 Feb 99
Edward J. Herzinger	16 Oct 98	30 Dec 98
Richard F. Higgins (winter over)	01 Nov 98	
Jonathan J. Hinton	02 Nov 98	28 Jan 99
Noreen E. Hogan	16 Oct 98	06 Dec 98
" " "	28 Dec 98	28 Jan 99
Roger K. Hooker (winter over)	02 Nov 98	
Steve F. Hopkins	16 Oct 98	17 Feb 99
Ralph Horak	09 Nov 98	19 Feb 99
Donald Ingalls	01 Nov 98	12 Feb 99
Bret A. James	29 Oct 98	17 Feb 99
Katharine Jensen (winter over#)	26 Oct 97	03 Nov 98
Rodney A. Jensen (winter over#)	06 Oct 97	03 Nov 98
William A. Johnson (winter over)	02 Nov 98	
Amanda Keller	02 Nov 98	12 Feb 99
Lisa Keller	02 Nov 98	12 Feb 99
Paul A. Kindl (winter over)	01 Nov 98	
Lester Kolb	01 Nov 98	17 Feb 99
Sandra K. Kolb	01 Nov 98	17 Feb 99
Noel V. Koppisch (winter over#)	14 Feb 98	03 Oct 98
Stephen Kornacki	01 Nov 98	12 Feb 99
Leroy Lancaster	02 Nov 98	21 Feb 99
Rob Leeth	29 Oct 98	17 Feb 99
Mark T. Lehman	01 Nov 98	11 Feb 99
Mary E. Lenox (winter over#)	26 Oct 97	03 Nov 98
Martin E. Lewis	25 Oct 98	17 Feb 99
Richard C. Lichtenhan	29 Oct 98	18 Feb 99
Kenneth J. Lobe (winter over)	25 Oct 98	
Liza C. Lobe (winter over)	25 Oct 98	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Angela M. Lodes	02 Nov 98	12 Feb 99
Andrew D. Logan (winter over#)	26 Oct 97	09 Nov 98
Diana J. Logan (winter over#)	26 Oct 97	09 Nov 98
Paul F. Lux (winter over#)	26 Oct 97	07 Nov 98
Michel F. Masterman (winter over)	25 Oct 98	
Jason D. McDonald	13 Oct 98	17 Feb 99
John P. McMullan	01 Nov 98	18 Feb 99
Joanne E. McMullen (winter over#)	28 Oct 97	13 Oct 98
George T. Miller, Jr (winter over)	25 Oct 98	
Kristine D. Moore	02 Nov 98	17 Feb 99
Jason S. Neely	25 Oct 98	17 Feb 99
Stephanie R. Negrey	02 Nov 98	17 Feb 99
Jerri L. Nielson (winter over)	19 Nov 98	
Barbara R. O' Brien	01 Nov 98	14 Jan 99
Kevin J. O' Connor	23 Nov 98	28 Jan 99
Matthew J. Oberlies	15 Jan 99	28 Jan 99
Jess L. Olson	29 Oct 98	05 Feb 99
James Pederson	08 Nov 98	23 Jan 99
John W. Penney (winter over)	13 Oct 98	
Robert Pennington	02 Nov 98	19 Feb 99
Traci L. Perdue	16 Oct 98	09 Jan 99
Mark Aaron Perry	29 Oct 98	28 Jan 99
Lynn J. Peters	25 Oct 98	17 Feb 99
Scott N. Phillips	01 Nov 98	18 Feb 99
Henry H. Pierce	02 Nov 98	17 Feb 99
Thomas E. Piwowarski	02 Nov 98	12 Feb 99
Rafael Pizano	16 Oct 98	03 Feb 99
Patrick J. Plaia	01 Nov 98	17 Feb 99
Michele L. Reba	22 Oct 98	17 Feb 99
Suzanne E. Reddy	29 Oct 98	17 Feb 99
Mosaddeque Reza	25 Oct 98	07 Nov 98
" " (winter over)	23 Nov 98	
John A. Richard	13 Oct 98	17 Feb 99
Janina M. Robinson	01 Nov 98	17 Feb 99
Christopher G. Rock	14 Nov 98	17 Feb 99
Nan K. Rogers	01 Nov 98	17 Feb 99
Roger D. Rowatt	01 Nov 98	17 Feb 99
Rolland J. Rue	13 Oct 98	12 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Jeffrey P. Ryan (winter over#)	01 Dec 97	03 Nov 98
Gino Sanfelice	14 Nov 98	01 Feb 99
Heidi E. Schernthanner (winter over)	02 Nov 98	
Liesl A. Schernthanner	31 Aug 98	05 Feb 99
John D. Scheuerman	20 Jan 99	05 Feb 99
Robert Schneider	01 Sep 98	19 Feb 99
Michael E. Schrodtt	29 Oct 98	11 Feb 99
Tracy J. Sheely	01 Nov 98	18 Feb 99
Brian L. Shunamon	25 Oct 98	12 Jan 99
" " " (winter over)	15 Jan 99	
Daniel T. Shuteroff	02 Nov 98	17 Feb 99
William J. Silva (winter over#)	26 Oct 97	26 Nov 98
James F. Slaughter (winter over)	02 Nov 98	
David W. Smith	13 Oct 98	12 Feb 99
Scott F. Smith	01 Sep 98	17 Feb 99
Kurt Sobanja	25 Oct 98	11 Feb 99
Charles G. Speidel (winter over)	29 Oct 98	
Joseph Speidel	02 Nov 98	12 Feb 99
Kirk E. Spelman (winter over)	29 Oct 98	
William A. Stramer	09 Nov 98	12 Feb 99
Paul J. Sullivan	01 Nov 98	17 Feb 99
Marci R. Tackett	01 Nov 98	17 Feb 99
Jeff Taylor	02 Nov 98	01 Dec 98
Ross W. Thorsen	29 Oct 98	17 Feb 99
Jeff W. Toman	29 Oct 98	14 Dec 98
Curtis A. Trimble	25 Oct 98	08 Feb 99
" " " (winter over)	12 Feb 99	
Elizabeth Tuttle	25 Oct 98	17 Feb 99
Carlton R. Walker	04 Oct 98	19 Jan 99
Karen Walker	25 Oct 98	18 Feb 99
Floyd W. Washington	22 Oct 98	12 Jan 99
" " " (winter over)	03 Feb 99	
Elizabeth J. Watson (winter over)	22 Oct 98	
Anita J. Werner	29 Oct 98	17 Feb 99
Naomi Whitty	01 Nov 98	12 Feb 99
Joshua J. Wing	01 Nov 98	18 Feb 99
Joseph Wojcik	02 Nov 98	17 Feb 99
Thomas P. Woodward	02 Nov 98	28 Jan 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
John H. Wright	09 Dec 98	19 Feb 99
Michael J. Yee	02 Nov 98	03 Feb 99
Paul Young	01 Nov 98	05 Feb 99
Robert E. Zimmerman	16 Oct 98	21 Feb 99
David G. Zybowski (winter over#)	26 Oct 97	09 Nov 98

Palmer Station Area

Louise Albershardt (winter over#)	17 Apr 98	21 Mar 99
William Arens	16 Sep 97	30 Apr 98
Ronald Baltz (winter over#)	29 Mar 98	05 Oct 98
David Benson	29 Mar 98	23 Sep 98
Dawn Biddison	30 Sep 98	
Matthew D. Bishop (winter over)	25 Feb 99	
Sheldon Blackman	29 Sep 97	30 Apr 98
"" "" ""	30 Sep 98	
Kevin Bliss (winter over#)	09 Apr 97	30 Apr 98
Harry Braun	29 Sep 98	30 Apr 98
Alexandra Brown	16 Sep 98	
Todd Crawford	25 Feb 99	
Carol Crossland (winter over)	24 Mar 99	
Joy Culbertson	16 Sep 97	06 Apr 98
Chris Cuning (winter over)	24 Mar 99	
Dodds Cupit	17 Apr 98	21 May 98
Julia Danford (winter over#)	17 Apr 98	05 Oct 98
Ken Davis	29 Mar 98	06 Apr 98
David Devere	16 Sep 98	21 Mar 99
Joseph K. Doggett	05 Jan 99	
Sara Duke	16 Sep 98	21 Mar 99
Richard L. Dwyer (winter over)	24 Mar 99	
Robert Echelbarger	27 Nov 98	
Robert Edwards	16 Sep 98	15 Feb 99
Robert Farrell	16 Sep 97	30 Apr 98
"" "" ""	16 Sep 98	21 Mar 99
Christine Foley (winter over#)	17 Apr 98	23 Sep 98
Lora Folger	16 Sep 98	
Joel Foy (winter over#)	17 Apr 98	05 Oct 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Michael Gallagher (winter over#)	17 Apr 98	23 Sep 98
Tom Galles	16 Sep 97	06 Apr 98
Chris Getz (winter over#)	17 Apr 98	05 Oct 98
Lucille Graham	16 Sep 97	30 Apr 98
Glenn E. Grant (winter over#)	29 Mar 98	17 Nov 98
John Haywood	11 Nov 97	06 Apr 98
Ross Hein	16 Sep 98	14 Mar 99
Chris A. Hill	30 Sep 98	17 Nov 98
David G. Jennings (winter over)	24 Mar 99	
Alana C. Jones (winter over)	24 Mar 99	
Richard Kidwell (winter over)	25 Feb 99	
Will Kirkpatrick (winter over#)	17 Apr 98	23 Sep 98
Dean Klein (winter over#)	29 Mar 98	05 Oct 98
"" "" "" (winter over)	25 Feb 99	
Ingrid Kohlstadt (winter over#)	17 Apr 98	23 Sep 98
Paul Kyllonen (winter over#)	17 Apr 98	05 Oct 98
Robert LaBarre (winter over)	16 Sep 98	
Dawn LaPrete	16 Sep 98	
James Litch	29 Sep 97	06 Apr 98
Corando Lozano	17 Apr 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
Walter MacLaughlin (winter over)	25 Feb 99	
Jacy L. Manzke (winter over)	24 Mar 99	
Gerald McCarty	16 Sep 97	06 Apr 98
David McDonald (winter over#)	29 Mar 98	05 Oct 98
Jason Medley (winter over)	25 Mar 99	
Steven Mikel	29 Mar 98	06 Apr 98
Dave Moore	16 Sep 97	30 Apr 98
Kenneth Navarro	25 Feb 99	
Steven Navarro	16 Sep 97	06 Apr 98
Erica Nelson (winter over#)	17 Apr 98	05 Oct 98
William Nesbit	29 Mar 98	30 Apr 98
William Nicholson	16 Sep 98	
Carl Norris	29 Mar 98	30 Apr 98
Mark Novitsky	17 Apr 98	05 Oct 98
Ronald Nugent	16 Jun 97	06 Apr 98
"" "" ""	16 Sep 98	
Jeff Otten (winter over)	30 Sep 98	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Richard Perales (winter over#)	12 May 98	23 Sep 98
Eric Pohlman	16 Sep 97	06 Apr 98
John Powell	29 Sep 97	06 Apr 98
"" "" ""	30 Sep 98	14 Mar 99
Laura Praderio	29 Mar 98	30 Apr 98
Aubrey C. Riley	05 Jan 97	17 Nov 98
Mark Rosen	16 Sep 97	30 Apr 98
Jeffery Rubio	16 Sep 98	
Monika Schernthanner (winter over#)	29 Mar 98	05 Oct 98
Mark Sears	29 Mar 98	30 Apr 98
Bryan Sholten	16 Sep 98	05 Oct 98
Andrew Sutton	16 Sep 98	21 Mar 99
Nancy Swearengin (winter over)	25 Feb 99	
John Talbert (winter over#)	30 Dec 98	21 Mar 99
Robert T. Taylor (winter over)	24 Mar 99	
Anne Udry	16 Sep 97	30 Apr 98
"" "" ""	16 Sep 98	21 Mar 99
Kevin Van Treeck (winter over#)	17 Apr 98	23 Sep 98
Daniel Weisblatt	27 Nov 98	
Diane Wetterlin (winter over#)	28 Feb 98	05 Oct 98
"" "" "" (winter over)	30 Mar 99	
Shannon Womble (winter over)	25 Feb 99	
Gary M. Wright (winter over)	24 Mar 99	
Ralph Young	16 Sep 98	

R/V Nathaniel B. Palmer

Jay Alan	05 May 98	13 Jun 98
Marta Parra Alarcon (Chile) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	
Enrique Alvezdo (Phillipines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Rogelio Ambrocio (Phillipines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	
Ruel Ambrocio (Phillipines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
Bienvendio Arron (Phillipines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
Herb Baker	05 May 98	13 Jun 98
Tom Baker (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	21 Mar 99
Janet Barnes	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	11 Feb 99
Timothy D. Bjokne	05 Feb 99	11 Feb 99
Joe Borkowski (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Kimberly Bracchi	07 Jul 98	13 Jul 98
Christie Campbell	05 May 98	13 Jun 98
Ronnie Carpio (Phillipines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	
Damon Chousel (Edison Chouest Offshore)	30 Mar 99	
Lee Crowe (Edison Chouest Offshore)	05 May 98	13 Jun 98
Fredor De La Cruz (Phillipines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
Jesse Doren	06 Nov 98	16 Dec 98
"" "" ""	05 Feb 99	21 Mar 99
"" "" ""	30 Mar 99	
Luke Emery	05 May 98	13 Jun 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Megan Fitzgerald (New Zealand) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Jennifer Fox	07 Jul 98	13 Jul 98
"" "" ""	09 Feb 99	21 Mar 99
"" "" ""	30 Mar 99	
Lauro Garde (Philippines) (Edison Chouest Offshore)	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Kathleen A. Gavahan	05 Feb 99	21 Mar 99
"" "" ""	30 Mar 99	
David Gilliland	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	11 Feb 99
David P. Green	13 Feb 99	21 Mar 99
Nora E. Silva Guzman	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	
Ian M. Howat	30 Mar 99	
Paul Huckins	06 Nov 98	16 Dec 98
Richard Iszard-Crowley	05 May 98	13 Jun 98
Paul Jarkiewicz (Edison Chouest Offshore)	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	
Ernest Joynt	13 Oct 98	21 Mar 99
"" "" ""	30 Mar 99	
Robert Kane	30 Mar 99	
Paul Kelley	06 Nov 98	16 Dec 98
Robert Kluckhohn	06 Nov 98	16 Dec 98
John Kutil (Edison Chouest Offshore)	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Scott Kutil (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Michael Lewis	06 Nov 98	16 Dec 98
"" "" ""	05 Feb 99	21 Mar 99
Peter Martin	07 Jul 98	13 Jul 98
"" "" ""	05 Feb 99	21 Mar 99
Chris Masters	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	12 Feb 99
Don Michaelson	28 Jan 99	21 Mar 99
David Monroe (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
Dave Morehouse	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	30 Dec 98	11 Feb 99
David Monroe (Edison Chouest Offshore)	06 Nov 98	16 Dec 98
"" "" ""	11 Feb 99	21 Mar 99
"" "" ""	30 Mar 99	
Karl Newyear	06 Nov 98	16 Dec 98
Rogelio Pagdanganan (Philippines) (Edison Chouest Offshore)	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Corey Peterson	05 May 98	13 Jun 98
Johnny Pierce (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	21 Mar 99
Vladimir Repin (Russia) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	11 Feb 99	21 Mar 99
"" "" ""	30 Mar 99	
Rolly Rogando (Philippines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Lorenzo Sandoval (Philippines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Dawn Scarboro	30 Mar 99	
Tobias Schunck	30 Dec 98	
Donald Shepherd	30 Mar 99	
Nestor Silveiro (Philippines) (Edison Chouest Offshore)	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
Glen Smith	30 Mar 99	
Ernest M. Stelly (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Ric Tamayo (Philippines) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Morris Tavlin	07 Jul 98	13 Jul 98
Ion Trif (Romania) (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
Sam Villanueva (Philippines) (Edison Chouest Offshore)	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Michael Watson (Edison Chouest Offshore)	05 May 98	13 Jun 98
"" "" ""	07 Jul 98	13 Jul 98
"" "" ""	30 Dec 98	21 Mar 99
"" "" ""	30 Mar 99	
Frank Welte (Edison Chouest Offshore)	06 Nov 98	16 Dec 98
"" "" ""	30 Mar 99	
Fredrick Wempe, Jr	30 Mar 99	
Ann-Maree White	06 Nov 98	16 Dec 98
Richard Wisner (Edison Chouest Offshore)	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
Theresa Wisner (Edison Chouest Offshore)	30 Dec 98	21 Mar 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Bryan Zipperer (Edison Chouest Offshore)	07 Jul 98	13 Jul 98
"" "" ""	06 Nov 98	16 Dec 98
"" "" ""	30 Dec 98	21 Mar 99
Robert B. Zook	30 Mar 99	

R/V Laurence M. Gould

Steve Ager	16 Sep 98	23 Sep 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Feb 99	21 Mar 99
"" "" ""	30 Mar 99	
Herb Baker	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	30 Dec 98	11 Feb 99
"" "" ""	24 Mar 99	
Larry A. Barker (Edison Chouest Offshore)	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	12 Feb 99
Timothy Bjokne	25 Feb 99	14 Mar 99
Sheldon Blackman	16 Sep 98	23 Sep 98
Kevin Bliss	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Feb 99	21 Mar 99
"" "" ""	30 Mar 99	
Brian Borden	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
Morris Bouzigard, Jr.(Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Kimberly Bracchi	27 Nov 98	24 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Valerie Carroll	16 Sep 98	23 Sep 98
Keith Conrey	30 Sep 98	05 Oct 98
John Conroy	17 Apr 98	30 Apr 98
James Cunningham	17 Apr 98	30 Apr 98
Anthony D'Aoust	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Donde A. Dasoy (Philippines) (Edison Chouest Offshore)	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Delio Dela Cruz (Philippines) (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
Alice Doyle	30 Dec 98	11 Feb 99
David Doyle	17 Apr 98	30 Apr 98
"" "" ""	05 Jan 99	15 Feb 99
Parrison Duet (Edison Chouest Offshore)	05 Jan 99	15 Feb 99
John Evans	30 Sep 98	05 Oct 98
"" "" ""	27 Nov 98	24 Dec 98
Jimmie Fox	17 Apr 98	30 Apr 98
Kathleen A. Gavahan	17 Oct 98	17 Nov 98
Michael Hancock	17 Apr 98	30 Apr 98
Alan Hickey	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	30 Sep 98	05 Oct 98
Wayne Howard	25 Feb 99	14 Mar 99
Edgar Ibisate (Philippines) (Edison Chouest Offshore)	24 Mar 99	
Richard Iszard-Crowley	05 Jan 99	15 Feb 99
Carl Kelly (Edison Chouest Offshore)	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
Henry Kennedy	12 May 98	21 May 98
Gregory Kent-Smith (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Guy Leblanc (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Michael Lewis	30 Mar 99	
Arsenio Majomot (Philipines) (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Chris Masters	29 Mar 98	06 Apr 98
Christian M. McDonald	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Joseph Meneses (Philipines) (Edison Chouest Offshore)	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
Stephen Miller (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Michael Murphy (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Fernando Naraga (Philipines) (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
James Needle (Edison Chouest Offshore)	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	12 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
Gary Osborn	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
Harold H. Owen	25 Feb 99	14 Mar 99
Dionito Padasas (Philipines) (Edison Chouest Offshore)	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
John-Mark Pelayo (Philipines) (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
Mark Pomeroy	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	05 Jan 99	15 Feb 99

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Efren Prado (Philippines) (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Suzanne Reddy	16 Sep 98	23 Sep 98
Jeffrey Rogers (Edison Chouest Offshore)	24 Mar 99	
Patricio Rojas (Chile) (Edison Chouest Offshore)	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Manuel Roxas (Philippines) (Edison Chouest Offshore)	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
Rafael D. Sabino (Philippines) (Edison Chouest Offshore)	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Trent Sanamo (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
Warren Sanamo, Jr. (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	27 Nov 98	24 Dec 98

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Roberta Score	24 Mar 99	
Randy Sliester	12 May 98	21 May 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	30 Mar 99	
John Martin Souza (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	
Razel Tamayo (Philippines) (Edison Chouest Offshore)	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
Morris Tavlin	27 Nov 98	24 Dec 98
Daniel Trimarco	17 Apr 98	30 Apr 98
Robert II Verret (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	25 Feb 99	14 Mar 99
"" "" ""	24 Mar 99	

	Dates in Antarctica	
	<u>Arrived</u>	<u>Departed</u>
Paul Waters (Edison Chouest Offshore)	29 Mar 98	06 Apr 98
"" "" ""	17 Apr 98	30 Apr 98
"" "" ""	12 May 98	21 May 98
"" "" ""	16 Sep 98	23 Sep 98
"" "" ""	30 Sep 98	05 Oct 98
"" "" ""	17 Oct 98	17 Nov 98
"" "" ""	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
William C. Weber	17 Oct 98	17 Nov 98
"" "" ""	25 Feb 99	14 Mar 99
Christopher Weddle	27 Nov 98	24 Dec 98
"" "" ""	05 Jan 99	15 Feb 99
"" "" ""	24 Mar 99	

Attachment B, Kill/Cap Forms

*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 1998 to JUNE 1999)

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	
Adelie penguin (<i>Pygoscelis adeliae</i>)	M/F	A						150
	U	C						3,200

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 1998 to JUNE 1999)

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						1,217
	M/F	A						69
Gentoo penguin (<i>Pygoscelis papua</i>)	M/F	C						200
	M/F	A						29
Brown Skua (<i>Catharacta lönnbergi</i>)	M/F	C/A						31

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 1998 to JUNE 1999)

BY Wayne Z. Trivelpiece Southwest Fisheries Science Center, NMFS
Name Institution

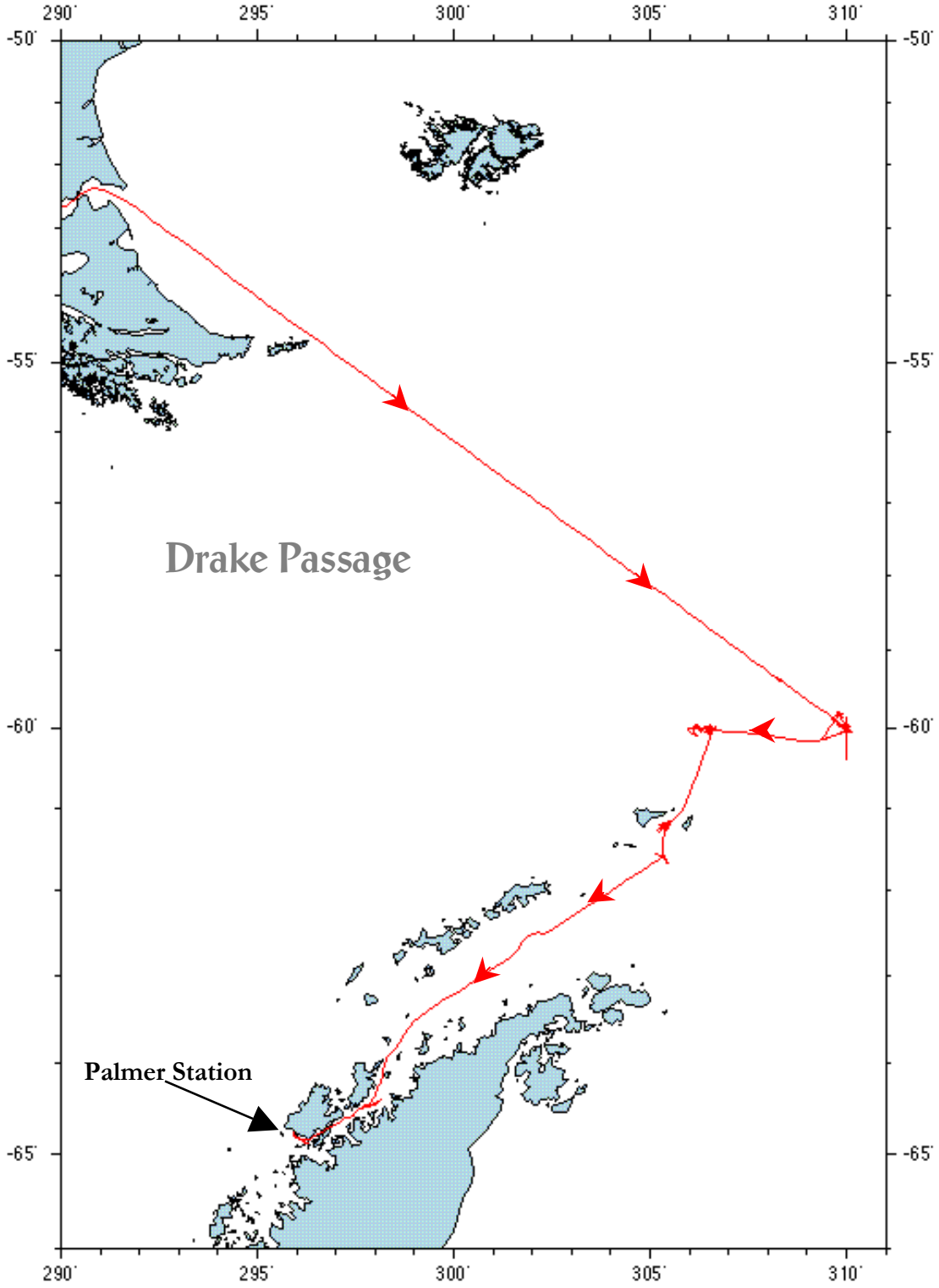
LOCALITY King George Island, Antarctica LAT. 62°10'S LONG. 60°46'W

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	
Adelie Penguin	M	A						214
	F	A						203
	U	J						1000
Gentoo Penguin	M	A						65
	F	A						73
	U	J						1000
Chinstrap Penguin	M	A						65
	F	A						65
	U	J						203
Brown Skua	M	A						1
	F	A						2
	U	J						63
South Polar Skua	M	A						5
	F	A						5
	U	J						68
Kelp Gull	M	A						0
	F	A						0
	U	J						8
Shealthbill	M	A						0
	F	A						0
	U	J						2
Giant Petrel	M	A						0
	F	A						0
	U	J						46
Cape Petrel	U	J						68

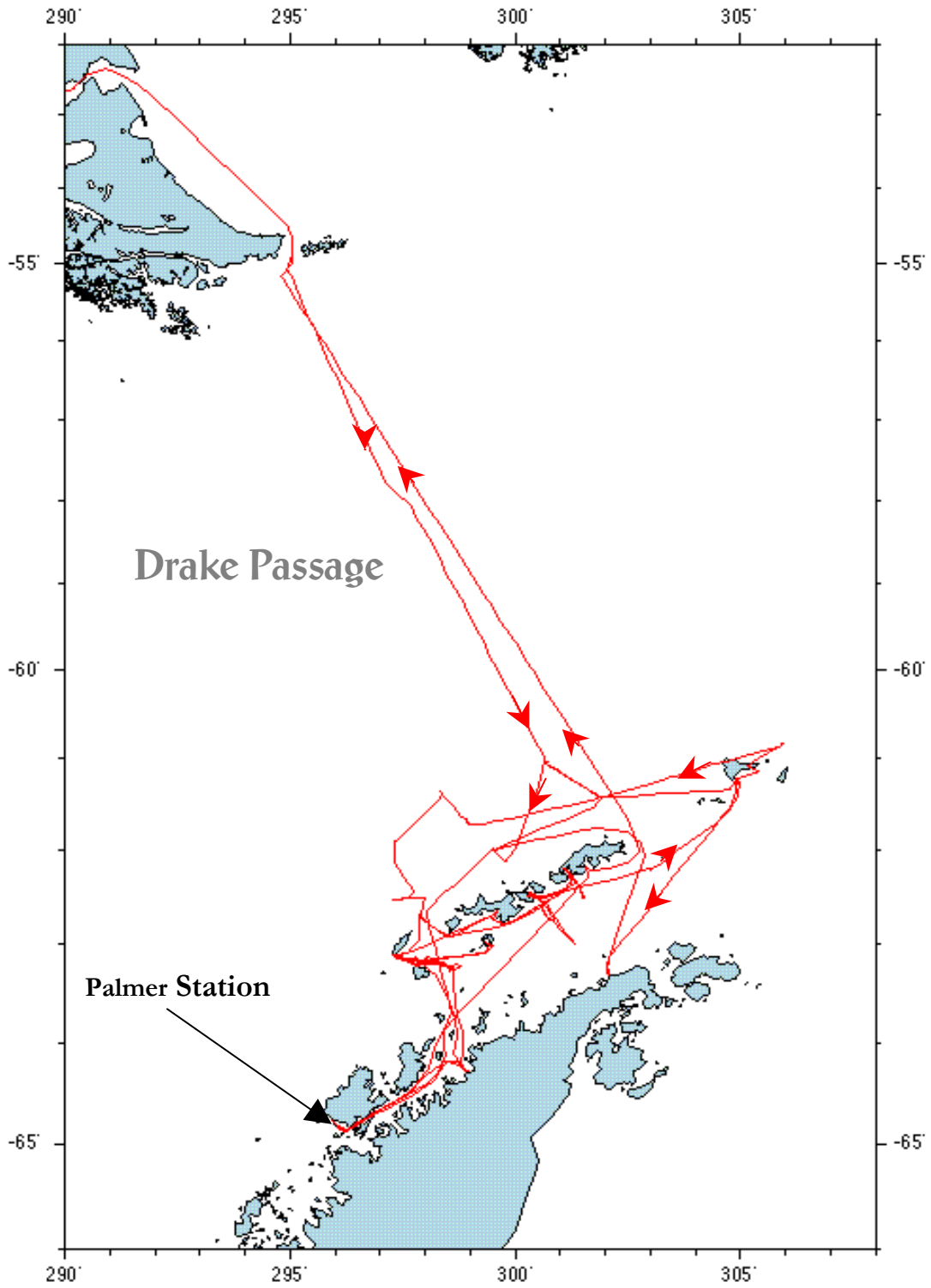
Attachment C, Vessel Tracks

Attachment C contains the tracks of Research Vessel cruises during the 1998-99 season. Information for both the Laurence M Gould (LMG) and the Nathaniel B. Palmer (NBP) are presented under the appropriate cruise numbers.

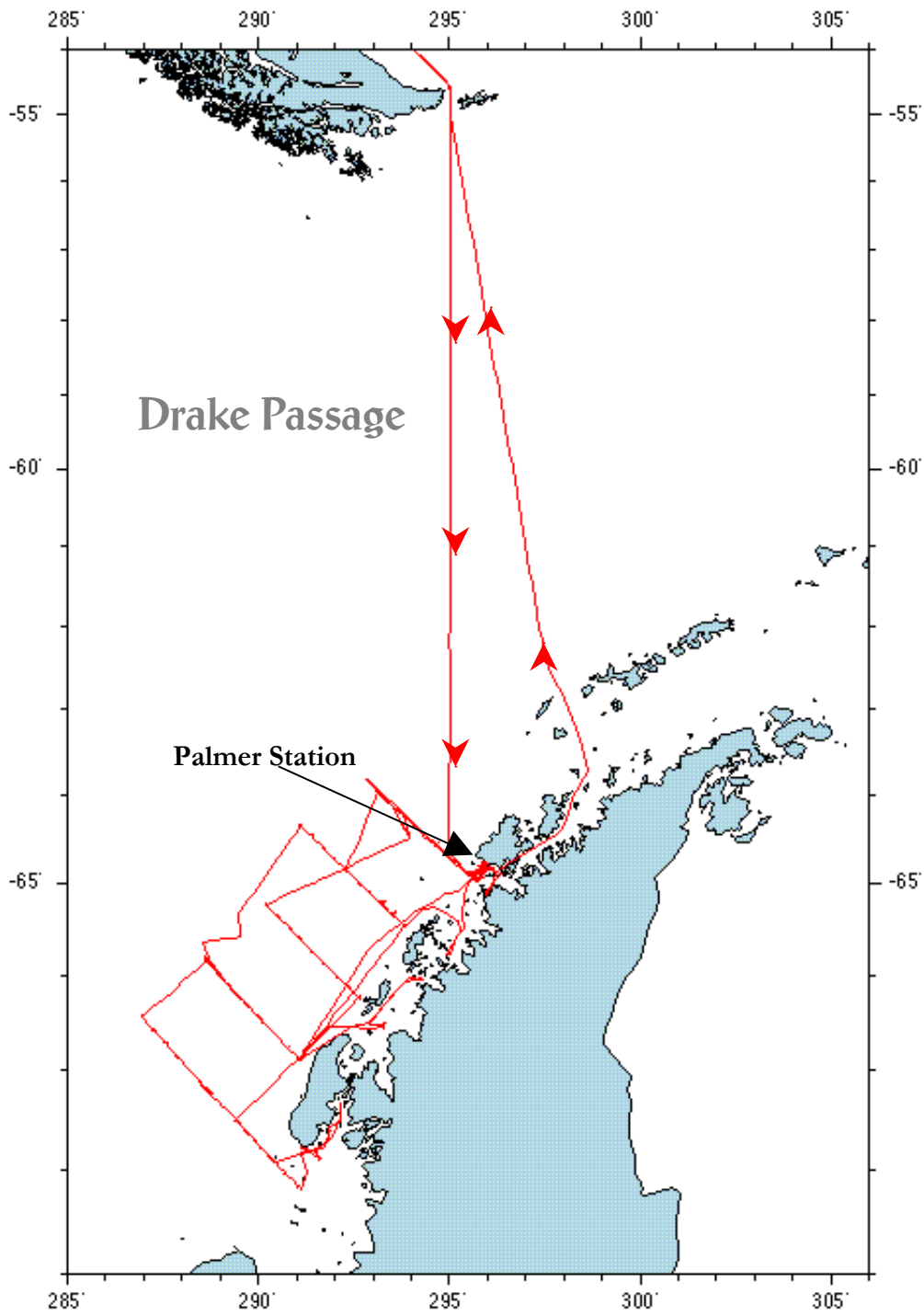
Laurence M. Gould
Cruise Number LMG9809



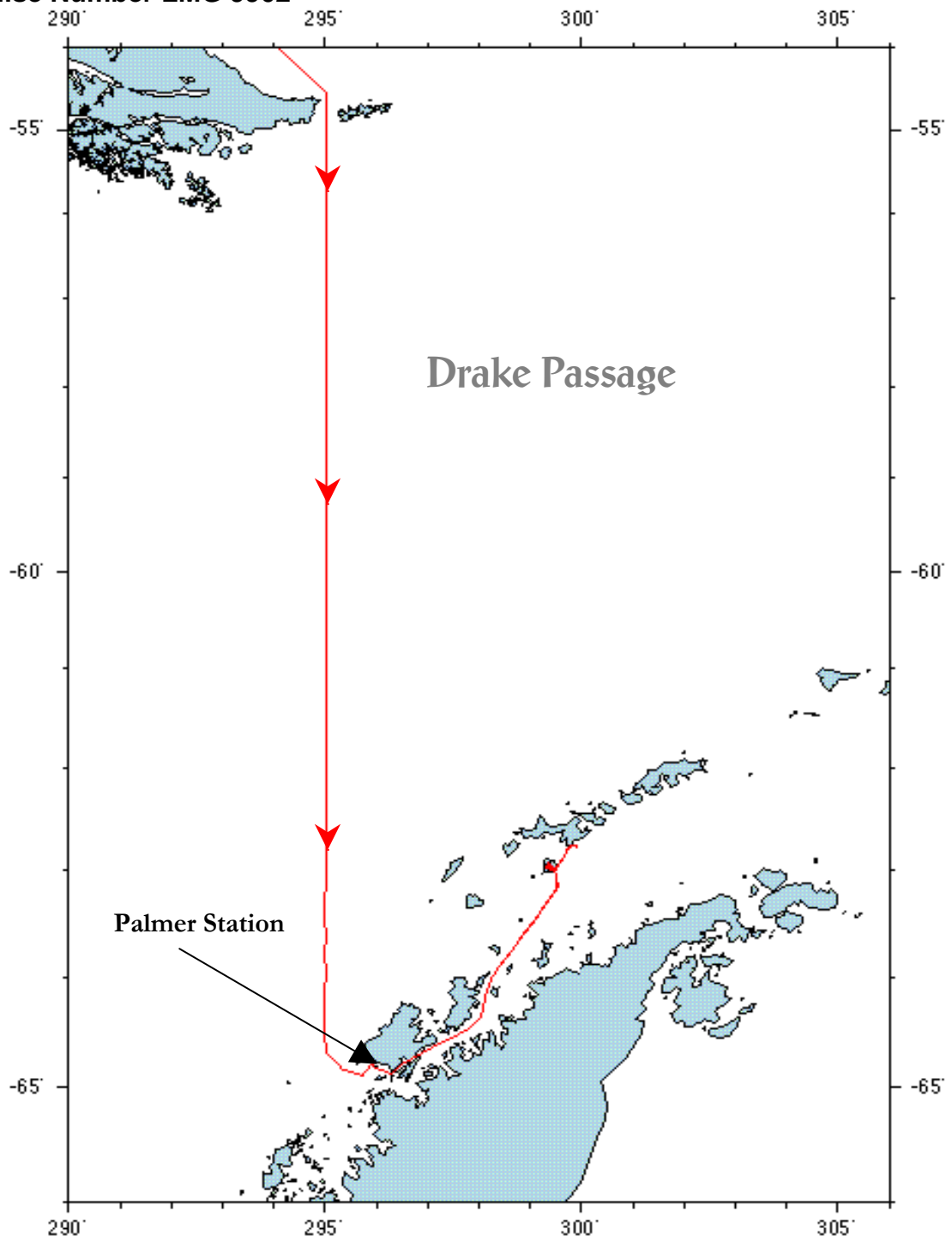
Laurence M. Gould
Cruise Number LMG9810



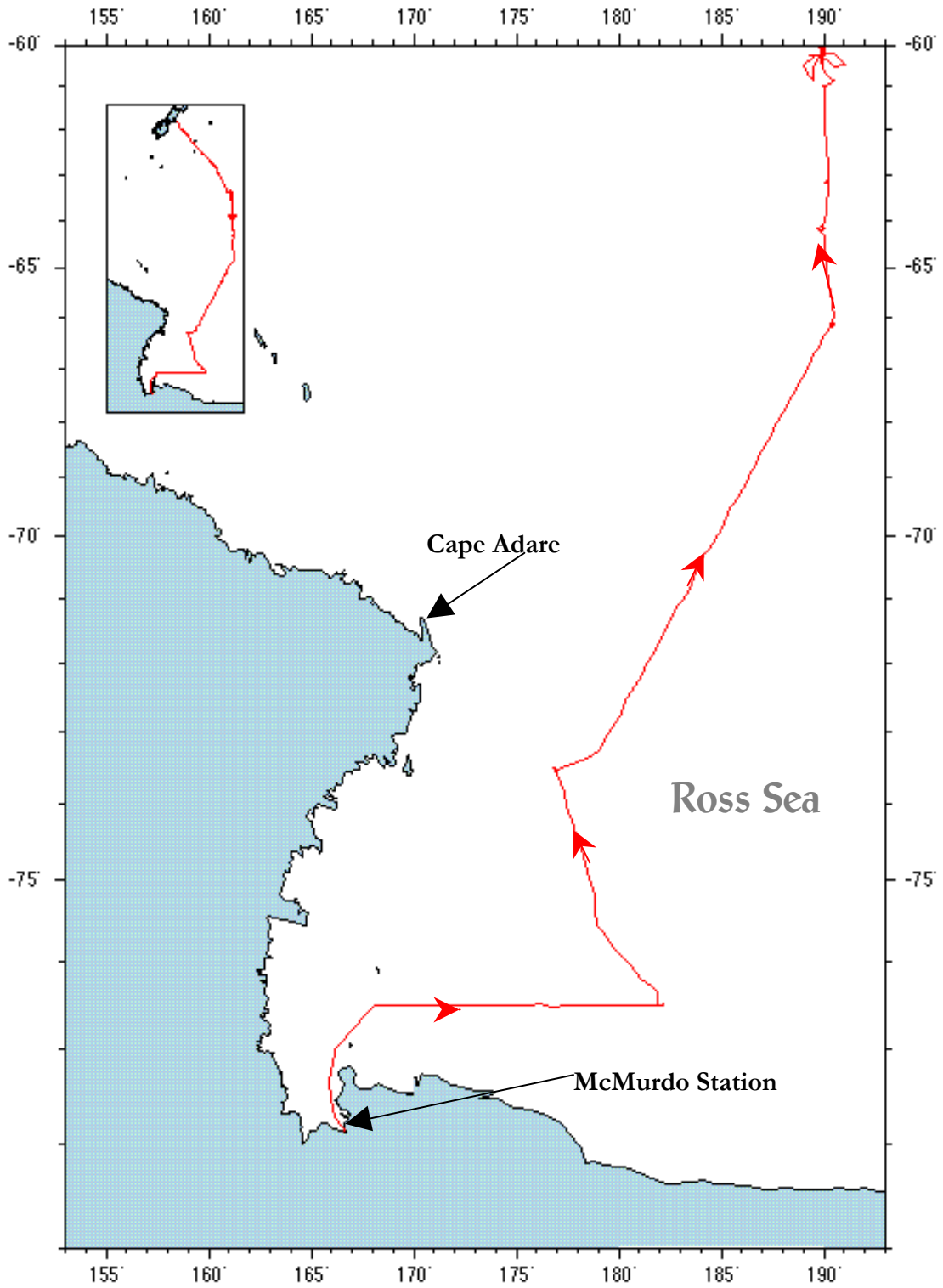
Laurence M. Gould
Cruise Number LMG9901



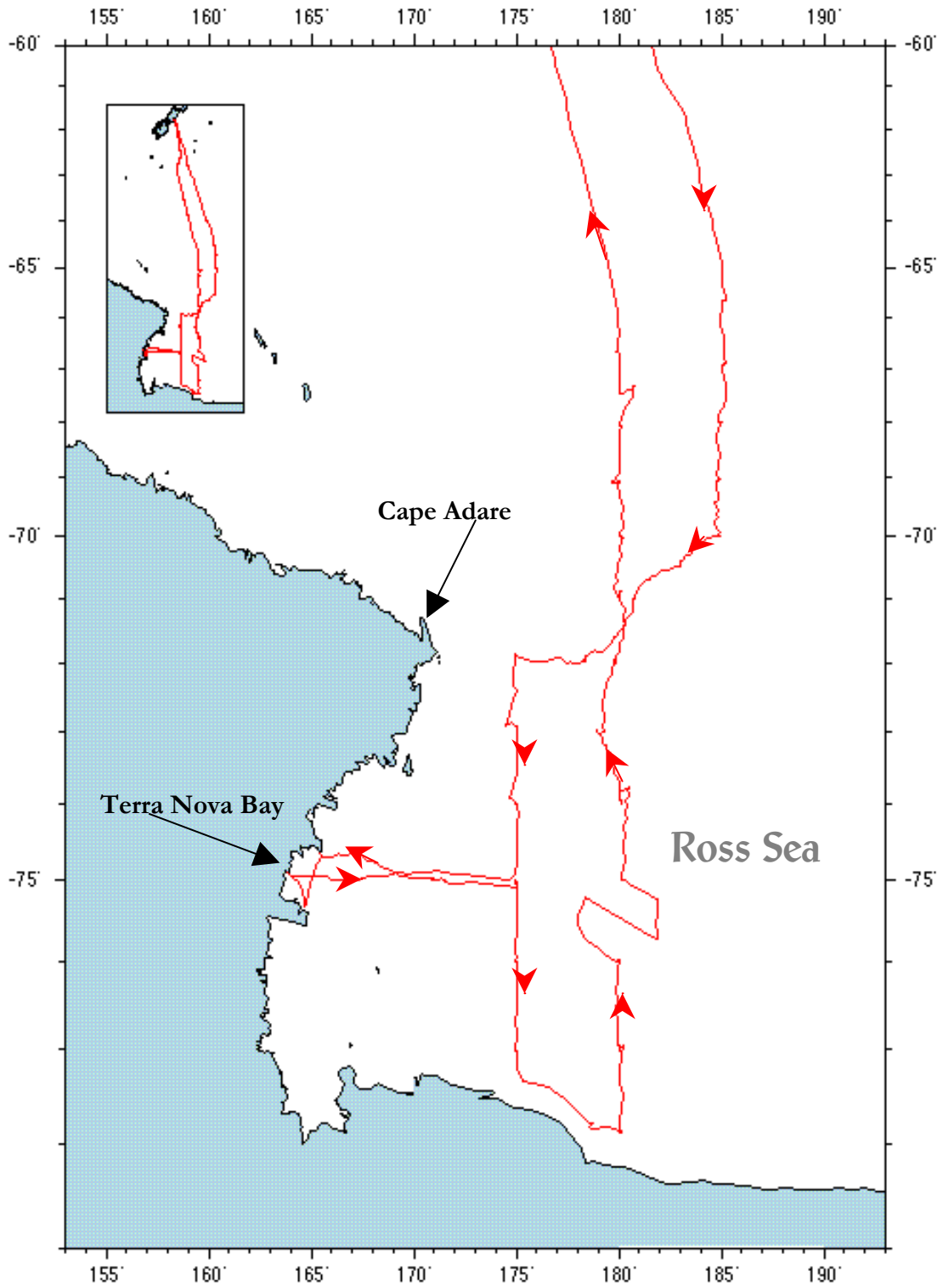
Laurence M. Gould
Cruise Number LMG 9902



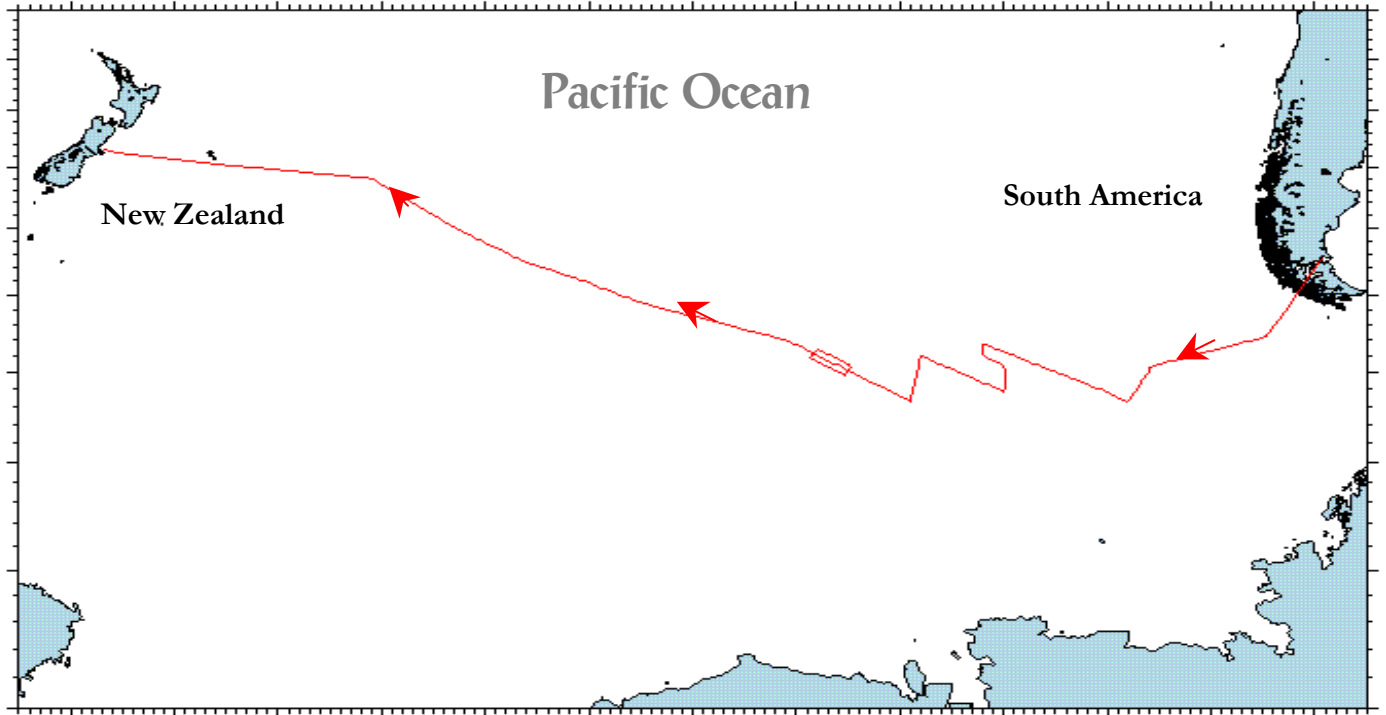
Nathaniel B. Palmer
Cruise Number NBP-9802



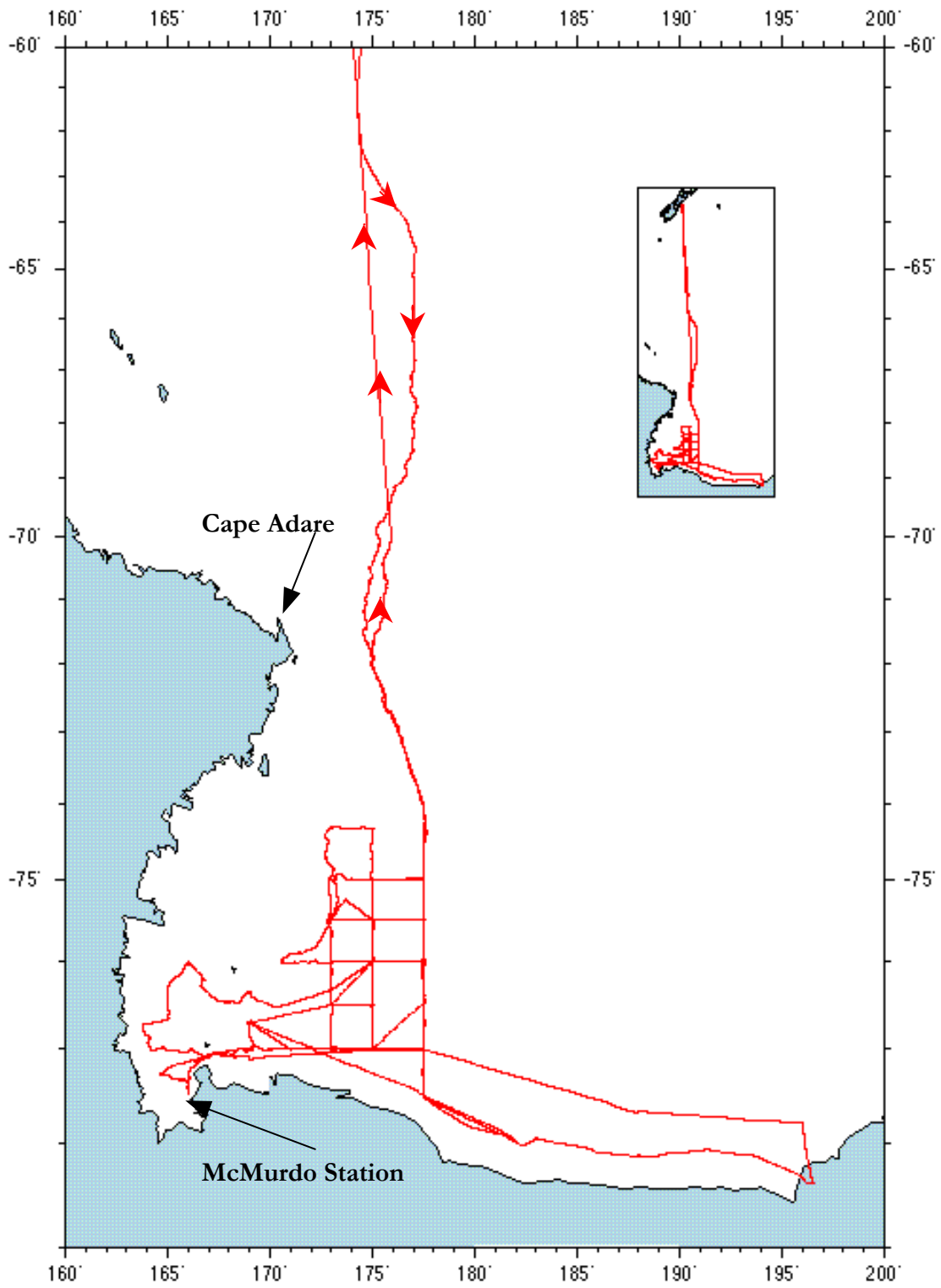
Nathaniel B. Palmer
Cruise Number NBP-9803



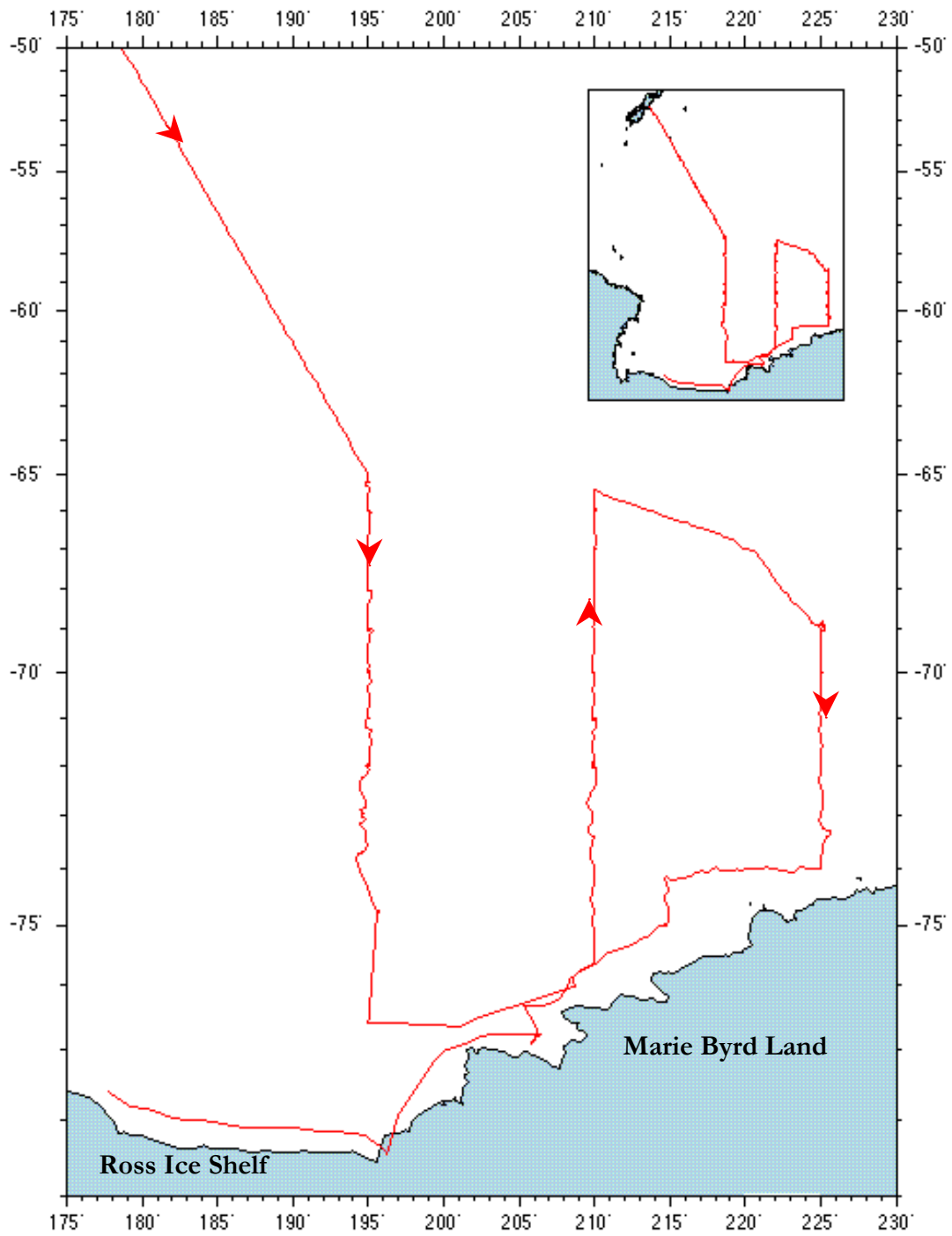
Nathaniel B. Palmer
Cruise Number NBP-9804



Nathaniel B. Palmer
Cruise Number NBP-9807



Nathaniel B. Palmer
Cruise Number NBP-9901



Nathaniel B. Palmer
Cruise Number NBP-9902

