

United States Antarctic Activities 1999-2000

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 1999-2000, supplements Planned Activities for July 1999 through June 2000 published elsewhere on this site.



**National Science Foundation
Arlington, Virginia 22230
June 30, 2000**

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 units of the Department of Defense.

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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I. Ships and Aircraft

*Section I of the Modifications of Activities Planned for 1999-00
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 during the first half of the deployment season, and then brought a fifth LC-130 aircraft after the holidays to fly intra-continental flight operations.

The Royal New Zealand Air Force provided airlift support between Christchurch, New Zealand and McMurdo Station, Antarctica from November to December, and during late January through early February.

II. Expedition Dates

*Section II of the Modifications of Activities Planned for 1999-00
lists the actual dates of significant events occurring
during this time period.*

Significant Dates of Expeditions

<u>Date</u>	<u>Activity</u>
21 Mar 99	LMG99-3 Multi-disciplinary study of Antarctic fishes and phytoplankton. (Sidell, Detrich, Visibeck, D. Anderson)
28 Mar 99	NBP99-3 Studies of sediment dispersal patterns (Domack)
15 Apr 99	NBP99-4 Study of hydrothermal activity in the Bransfield Strait (Klinkhammer)
27 Apr 99	LMG99-4&5 Continuation of LMG99-3 (Sidell, Detrich)
14 May 99	NBP99-5 Seismometer deployments in the South Shetland Island Archipelago (Dorman, Wiens)
11 Jun 99	NBP99-6 Long-term study of Antarctic marine ecosystem (LTER)
09 Jul 99	LMG99-6 Palmer Station support
19 Jul 99	NBP99-7 Maintenance period in Talcahuano, Chile
01 Aug 99	LMG99-7 Transit to Talcahuano, Chile for maintenance
17 Aug 99	NBP99-8 Magnetic anomaly mapping (Cande)
20 Aug 99	First flight to McMurdo for Winfly operations
08 Sep 99	NBP Vessel lay-up in Christchurch, New Zealand
14 Sep 99	LMG99-8 Palmer Station support, ADCP shakedown (Chereskin)
18 Sep 99	Palmer Station annual relief, summer operations commence
28 Sep 99	LMG99-8A UNOLS vessel science inspection
30 Sep 99	First C-141 mission to McMurdo during Ice Runway period (1 of 21); McMurdo Station commences summer operations
01 Oct 99	First C-5 mission to McMurdo of the season (1 of 2)
04 Oct 99	Marble Point opens

<u>Date</u>	<u>Activity</u>
09 Oct 99	LMG99-8B Palmer Station turnover and Copacabana opening
13 Oct 99	Copacabana Field Camp opens
15 Oct 99	First C-17 mission to McMurdo – Test Flight, Cargo Only (1 of 2)
16 Oct 99	South Pole Medevac mission
25 Oct 99	South Pole begins summer operations
25 Oct 99	LMG99-9 Ongoing study of water column and benthic community around Deception Island (K. Smith)
28 Oct 99	Cape Shirreff Field Station Opens
02 Nov 99	Siple Dome opens
13 Nov 99	Byrd Surface Camp opens
20 Nov 99	LMG99-10 Study of bloom material along th West Antarctic shelf, Microbiology and carbon fluz study near Victor Hugo Island (Karl, C. Smith, DeMaster)
23 Nov 99	Midpoint Camp opens
11 Dec 99	Transfer flight operations from sea ice runway to Williams field skiway.
17 Dec 99	LMG00-1 LTER studies of sea-ice dynamics effect on biology (Fraser, Vernet, Martinson, Quetin, Smith, Karl)
20 Dec 99	NBP99-9 Study of pack ice seals in southern ocean & Ross Sea (Bengtson, Torres, Ackley, Quetin, Castellini, Stewart, Yochem, and Siniff)
27 Dec 99	Midpoint Camp closes
28 Dec 99	<i>USCGC Polar Star</i> commences break-in of ice channel to McMurdo Station
02 Jan 00	109 th AW brings fifth LC-130 aircraft to McMurdo
17 Jan 00	<i>M/V Richard G. Matthisen</i> (tanker) moored at McMurdo ice pier and commences station refueling operations
22 Jan 00	Refueling operations completed; <i>Matthisen</i> departs McMurdo
23-24 Jan 00	<i>USCGC Polar Star</i> refuels Marble Point
25 Jan 00	Byrd Surface Camp closes
01 Feb 00	First C-141 mission to McMurdo for redeployment (1 of 10)
05 Feb 00	Ongoing time-series study of the water column and benthic community around Deception Island (K. Smith)
06 Feb 00	<i>Polar Star</i> commences southbound escort of <i>M/V Green Wave</i>

<u>Date</u>	<u>Activity</u>
10 Feb 00	<i>Green Wave</i> arrives McMurdo ice pier; cargo offload operations commence
11 Feb 00	Marble Point closes
17 Feb 00	<i>Green Wave</i> departs McMurdo ice pier; cargo operations completed. <i>Polar Star</i> completes McMurdo operations and commences transit to Oates Coast in support of Antarctic Ice Pack Seal Program (APIS)
18 Feb 00	South Pole Station commences winter-over operations
25 Feb 00	109th AW departs McMurdo
25 Feb 00	Final C-141 turnaround mission at McMurdo
25 Feb 00	McMurdo Station commences winter-over operations
08 Mar 00	Copacabana Field Camp closes
09 Mar 00	Cape Shirreff Field Station closes

Note: LMG = R/V *Laurence M. Gould*
NBP = R/V *Nathaniel B. Palmer*

III. Stations

Section III of the Modifications of Activities Planned for 1999-2000 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: 20 August 1999

Amundsen-Scott South Pole Station

Location: 90° 00'S Latitude
Annual Relief: 25 October 1999

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: 02 November 1999

Close: 31 January 2000

Byrd Camp

Location: 80° 05'S Latitude
119° 32'W Longitude

Open: 13 November 1999

Close: 25 January 2000

Mid-C Camp

Location: 75° 32'S Latitude
145° 49'W Longitude

Open: 23 November 1999

Close: 27 December 1999

Pieter J. Lenie Field Station ("Copacabana"), King George Island

Location: 62° 10'S Latitude
58° 28'W Longitude

Open: 13 October 1999

Close: 08 March 2000

Cape Shirreff Field Station, Livingston Island

Location: 62° 28'S Latitude
 60° 47'W Longitude

Open: 29 October 1999

Close: 09 March 2000

IV. Personnel

Section IV of the Modifications of Activities Planned for 1999-2000 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
20 Aug 99 – 27 Aug 99	David M. Bresnahan	McMurdo
30 Sept 99 – 05 Dec 99	Alexander L. Sutherland	McMurdo
25 Oct 99 – 24 Nov 99	Julie M. Palais *	McMurdo
25 Nov 99 – 21 Dec 99	Scott G. Borg *	McMurdo
14 Dec 99 – 18 Feb 2000	Dwight D. Fisher	McMurdo
05 Jan 2000 – 26 Jan 2000	Bernhard Lettau *	McMurdo
11 Nov 99 – 16 Dec 99	Jerry W. Marty	South Pole

DATES	NAME	LOCATION
04 Dec 99 – 10 Jan 2000	Richard Hirsh *	South Pole
07 Jan 2000 – 17 Feb 2000	Jerry W. Marty	South Pole
11 Jan 2000 – 29 Jan 2000	Eugene Loh *	South Pole
06 Jan 2000 – 16 Feb 2000	Polly A. Penhale	Palmer

Officers 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 1999-2000 season were:

McMurdo Station

COL Richard M. Saburro, USAF	30 Sept 99 – 25 Feb 2000
Terry L. Melton (winter over, 1998-99)	23 Oct 98 – 30 Oct 99
William A. Coughran (winter-over, 1999-2000)	31 Oct 99 -

Amundsen-Scott South Pole Station

Edward Blain, Station Manager	25 Oct 99 – 17 Feb 2000
Scott Hulse (winter-over, 1999-2000)	18 Feb 2000 -

Palmer Station

Robert Farrell, Station Manager	16 Sep 99- 24 Feb 2000
Christopher Cuning (winter-over, 1998-99)	24 Mar 99 –15 Sept 99
Robert Farrell (winter-over, 1999-2000)	15 April 2000 -

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 1999-2000 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 lists additions and deletions to the principal scientific equipment available at McMurdo, South Pole, and Palmer stations and onboard USAP research vessels.

ADDITIONS

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG¹</u>	<u>NBP²</u>	<u>AGO³</u>
Astrophysics Aeronomy						
Antenna, VLF Loop						X
Camera, All-Sky						X
Leak Detection and Vacuum Pump Equipment	X		X			
LIDAR						X
Magnetometer, Three Component Air Core Induction		X				X
Magnetometer, Three Axis Fluxgate						X
Oscilloscope						X
Power Supply Controller (PSC)						X
Pump, Turbomolecular			X			
Receiving System, VLF		X				X
Riometers, 30 & 50 MHz						X
Transport, Liquid Helium (program-owned)		X				
Uninterrupted Power Supply (UPS)				X	X	
Biology						
Chromatography, High Performance Liquid System (HPLC)					X	

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³
Dewar, Liquid Nitrogen Storage		X				
Ice Maker	X				X	
Incubator, Percival	X					
Pump, Vacuum		X				
Receiver, VHF Radio		X				
Spectroradiometer		X				
Spectrophotometer, Diode Array			X			
Thermometer, Digital		X				
Computers						
<u>MacIntosh:</u>						
Computer, Desktop, Pentium	X					
Computer, G3			X		X	
Computer, G4	X					
<u>PC:</u>						
Computer, Desktop Pentium		X				
Computer, Portable, 486						X
Computer, Portable, 586			X	X	X	X
<u>Workstation:</u>						
SGI 02				X		
Sun SPARC 5	X					
Sun Ultra 10	X					
Miscellaneous						
CDRom, -R		X				
CD Writer		X		X	X	
Digitizer - Scanner			X			
JAZ Drive	X					
Plotter, Ink Jet, Color	X					

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG¹</u>	<u>NBP²</u>	<u>AGO³</u>
Storage Computers (CAGOSTO)						X
Zip Drive						X
Geology/Geophysics						
Global Positioning System	X	X	X	X	X	X
Jack Hammer			X			
Petrographic Scope	X					
Glaciology						
Ice Auger, Kovacs					X	
Meteorology						
Helium ISO Module	X	X				
Lhe Vapor Recovery System		X				
Temperature Thermometers						X
Pressure Indicators						X
Pygeometers				X	X	
Pyranometer				X		
Weather Station		X				
Wind Anemometers						X
Wind Indicators						X
Wind System and Recorder with Transmitter		X				
Oceanography/Limnology						
Winch, Portable Hand						X
Seismology						
IRIS System						X

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³
Other						
Cryogen Vaporizer		X				
Data link, Satellite						X
Frequency Counter		X		X		
Handheld Global Positioning System				X	X	
Nitrogen Generator		X				
Projector, Video		X				
Scanner				X		

1 = R/V LAURENCE M. GOULD

2 = R/V NATHANIEL B. PALMER

3 = AUTOMATED GEOPHYSICAL OBSERVATORY

DELETIONS

	<u>McMurdo</u>	<u>Spole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³
Astrophysics Aeronomy						
Nitrogen Liquifier	X	X				
Biology						
Camera, Still, Underwater						X
Counter, Liquid Scintillation						X
Counter, Particle			X			
Cryostat	X					
Melter, Ice Hole					X	
Video System, Underwater					X	

	<u>McMurdo</u>	<u>Spole</u>	<u>Palmer</u>	<u>LMG¹</u>	<u>NBP²</u>	<u>AGO³</u>
Computers						
<u>Mini:</u>						
DEC Microvax	X	X				
DEC PDP-II	X	X				
DEC PDP-II-73		X				
<u>PC:</u>						
Computer, Desktop, XT	X	X				
Computer, Desktop, 286	X	X		X		
Computer, Desktop, 386				X	X	
Computer, Portable, 286	X					
Computer, Portable, 386					X	
Computer, Server, 486	X					
<u>Workstation:</u>						
SGI Iris	X					
SPARC IPX	X					
Sun U450	X					
Sun Ultra2	X					
Miscellaneous						
CDRom – Reader	X					
Computer Interface	X					
Plotter, Ink Jet, Monochrome	X			X	X	
Geology/Geophysics						
Chronology Clock				X	X	
X-ray Instrument, Diffraction	X					
Geomagnetism						
Magnetometer, Portable					X	

	<u>McMurdo</u>	<u>Spole</u>	<u>Palmer</u>	<u>LMG</u> ¹	<u>NBP</u> ²	<u>AGO</u> ³
Time Standard				X	X	
Oceanography/Limnology						
Gradiometer, Magnetic					X	
The Vapor Recovery System		X				
Magnetometers	X				X	
Seismic Systems, Single and Multi-Channel					X	
Seismology						
Receiver, GPS				X	X	
Other						
Global Positioning System	X	X	X	X	X	
Transceivers, Satellite, ATS-3				X		
Video Camcorder						X

1 = R/V LAURENCE M. GOULD

2 = R/V NATHANIEL B. PALMER

3 = AUTOMATED GEOPHYSICAL OBSERVATORY

VIII. Transportation and Comms

Section VIII of Modifications of Activities Planned for 1999-2000 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

Van	1
Truck, Pickup	1

Add

Trucks, Pickup	51
Vans	10
Tractor Crawler	1

Amundsen-Scott South Pole Station

Add

Telehandler	1
Excavator	1

Palmer Station

Add

Telescopic material handler	1
Vehicle, all terrain, 4-wheel	1

Delete

Crane	1
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Description of Communications Facilities

McMurdo Station

VHF dispatch consoles and a design for VHF architecture modernization was not accomplished.

The implementation for HF Email was halted due to diminishing requirements.

South Pole Station

An IRIDIUM telephone system, integrated into the station's telephone system was cancelled.

Palmer Station

The HF radio replacement has been delayed until the coming winter season.

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 1999-2000
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 planned 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 1999-2000 season using the 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- 929

November 1999

47 PAX; 16 STAFF; 61 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		07 NOV 1999
Southeast Falklands		08 NOV 1999
At sea		09 NOV 1999
At sea		10 NOV 1999
South Georgia		11-13 NOV 1999
at sea		14 NOV 1999
South Orkneys		15-16 NOV 1999
Arctowski Station	8	17 NOV 1999
Portal Point, Charlotte Bay	49	18 NOV 1999
Cuverville Island	48	18 NOV 1999
Almirante Brown Station	20	18 NOV 1999

Port Lockroy, Wiencke Island	48	19 NOV 1999
at sea		20-21 NOV 1999
Ushuaia, ARGENTINA		22 NOV 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX- 930

November/December 1999

85 PAX; 13 STAFF; 62 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		22 NOV 1999
at sea		23-24 NOV 1999
Brown Bluff, Tabarin Peninsula	97	25 NOV 1999
Paulet Island	90	25 NOV 1999
Half Moon Island	96	26 NOV 1999
Whaler's Bay, Deception Island	97	26 NOV 1999
Pendulum Cove, Deception Island	62	26 NOV 1999
Cuverville Island	92	27 NOV 1999
Port Lockroy, Wiencke Island	109	27 NOV 1999
Pleneau Island	57	28 NOV 1999
Almirante Brown Station	97	29 NOV 1999
Danco Island	90	29 NOV 1999
at sea		30 NOV - 01 DEC 1999
Ushuaia, ARGENTINA		02 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX- 931

December 1999
71 PAX; 14 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		02 DEC 1999
at sea		03-04 DEC 1999
Aitcho Islands	84	04 DEC 1999
Portal Point, Charlotte Bay	84	05 DEC 1999
Danco Island	83	05 DEC 1999
Paradise Bay	78*	05 DEC 1999
Petermann Island	73	06 DEC 1999
Pendulum Cove, Deception Island	68	07 DEC 1999
Telefon Bay, Deception Island	80	07 DEC 1999
Whalers Bay, Deception Island	83	07 DEC 1999
Devil Island	86	08 DEC 1999
Crystal Hill, Trinity Peninsula	94	08 DEC 1999
Penguin Island	78	09 DEC 1999
Arctowski Station	84	09 DEC 1999
Drake Passage (at sea)		10-11 DEC 1999
Ushuaia, ARGENTINA		12 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX- 932

December 1999
34 PAX; 12 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		12 DEC 1999
at sea		13-14 DEC 1999
Aitcho Island	45	14 DEC 1999
Cuerverville Island	41	15 DEC 1999
Neko Harbor, Andvord Bay	44	15 DEC 1999
Paradise Bay	38*	15 DEC 1999

Port Lockroy, Wiencke Island	36	15 DEC 1999
Petermann Island	39	16 DEC 1999
Palmer Station	64	16 DEC 1999
Baily Head, Deception Island	38	17 DEC 1999
Whalers Bay, Deception Island	40	17 DEC 1999
Pendulum Cove, Deception Island	34	17 DEC 1999
Devil Island	46	18 DEC 1999
Cape Lookout, Elephant Island	42	19 DEC 1999
Cape Valentine, Elephant Island	45*	19 DEC 1999
Point Wild, Elephant Island	40*	19 DEC 1999
at sea		20-21 DEC 1999
New Island, Falklands	44	21 DEC 1999
Carcass Island, Falklands	50	22 DEC 1999
Port Stanley, FALKLAND ISLANDS		23 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX- 933

December 1999/January 2000
86 PAX; 13 STAFF; 62 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		23 DEC 1999
Carcass/New Island		24 DEC 1999
at sea		25-26 DEC 1999
Aitcho Island	97	27 DEC 1999
Hannah Point, Livingston Island	97	28 DEC 1999
Pendulum Cove, Deception Island	83	28 DEC 1999
Whalers Bay, Deception Island	96	28 DEC 1999
Damoy Point, Wiencke Island	93	29 DEC 1999
Port Lockroy, Goudier Island	100	29 DEC 1999
Almirante Brown Station	91	29 DEC 1999
Cuverville Island	97	30 DEC 1999
Enterprise Islands	88*	30 DEC 1999

Devil Island	97	31 DEC 1999
McFarlane Strait	93	01 JAN 2000
Drake Passage (at sea)		02-03 JAN 2000
Ushuaia, ARGENTINA		04 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX- 001

January 2000

79 PAX; 12 STAFF; 62 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		04 JAN 2000
Drake Passage (at sea)		05-06 JAN 2000
Great Wall Station, King George Island	90	06 JAN 2000
Devil Island	90	07 JAN 2000
Crystal Hill, Trinity Peninsula	90	07 JAN 2000
Pendulum Cove, Deception Island	84	08 JAN 2000
Whalers Bay, Deception Island	90	08 JAN 2000
Half Moon Island	90	08 JAN 2000
Enterprise Islands	90*	09 JAN 2000
Danco Island	90	09 JAN 2000
Paradise Bay	82	09 JAN 2000
Damoy Point, Wiencke Island	90	10 JAN 2000
Goudier Island	92	10 JAN 2000
Petermann Island	91	10 JAN 2000
Useful Island	93	11 JAN 2000
at sea		12-13 JAN 2000
Ushuaia, ARGENTINA		14 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX- 002

January/February 2000
101 PAX; 12 STAFF; 63 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		14 JAN 2000
at sea		15-16 JAN 2000
Copacabana Station	6	16 JAN 2000
Devil Island	108	17 JAN 2000
View Point, Duse Bay, Trinity Peninsula	106	17 JAN 2000
Hannah Point, Livingston Island	108	18 JAN 2000
Whalers Bay, Deception Island	103	18 JAN 2000
Pendulum Cove, Deception Island	85	18 JAN 2000
Enterprise Islands	111*	19 JAN 2000
Damoy Point, Wiencke Island	111	19 JAN 2000
Goudier Island	111	19 JAN 2000
Jougla Point, Port Lockroy	1	19 JAN 2000
Petermann Island	108	20 JAN 2000
Palmer Station	121	20 JAN 2000
Torgersen Island	101	20 JAN 2000
Cuerverville Island	110	21 JAN 2000
Ronge Island	84	21 JAN 2000
Orne Island	1	21 JAN 2000
At sea		22-23 JAN 2000
Ushuaia, ARGENTINA		24 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-003

January/February 2000
100 PAX; 12 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		24 JAN 2000
At sea		25-26 JAN 2000

Cuverville Island	113	27 JAN 2000
Lagarrigue Cove, Orne Harbor	113	27 JAN 2000
Petermann Island	110	27 JAN 2000
Hannah Point, Livingston Island	111	28 JAN 2000
Devil Island	113	29 JAN 2000
Point Wild, Elephant Island	105*	30 JAN 2000
South Orkneys		31 JAN 2000
at sea		01 FEB 2000
South Georgia		02-04 FEB 2000
At sea		05-06 FEB 2000
Southeast Falklands		07 FEB 2000
Port Stanley, FALKLAND ISLANDS		08 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX-004

February 2000

84 PAX; 14 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		08 FEB 2000
Carcass/New Island		09 FEB 2000
At sea		10-11 FEB 2000
Brown Bluff, Tabarin Peninsula	95	12 FEB 2000
Devil Island	94	12 FEB 2000
Rum Cove, James Ross Island	94	13 FEB 2000
Crystal Hill, Trinity Peninsula	90	13 FEB 2000
Hannah Point, Livingston Island	95	14 FEB 2000
Whalers Bay, Deception Island	95	14 FEB 2000
Pendulum Cove, Deception Island	88	14 FEB 2000
Cuverville Island	94	15 FEB 2000
Petermann Island	94	15 FEB 2000
Barcroft Islands	74*	16 FEB 2000
Damoy Point, Wiencke Island	92	17 FEB 2000

Goudier Island	96	17 FEB 2000
Palmer Station, Anvers Island	99	17 FEB 2000
Useful Island	100	18 FEB 2000
at sea		19-20 FEB 2000
Ushuaia, ARGENTINA		21 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise EX 005

February /March 2000

75 PAX; 13 STAFF; 62 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		21 FEB 2000
at sea		22-23 FEB 2000
Baily Head, Deception Island	88	23 FEB 2000
Neko Harbor, Andvord Bay	87*	24 FEB 2000
Cuverville Island	87	24 FEB 2000
Spigot Peak, Orne Island	87	24 FEB 2000
Petermann Island	87	25 FEB 2000
Damoy Point, Wiencke Island	87	25 FEB 2000
Goudier Island	88	25 FEB 2000
Pendulum Cove, Deception Island	76	26 FEB 2000
Half Moon Island	87	26 FEB 2000
South Orkneys		27-28 FEB 2000
at sea		29 FEB 2000
South Georgia		01-03 MAR 2000
At sea		04-05 MAR 2000
Southeast Falklands		06 MAR 2000
Port Stanley, FALKLAND ISLANDS		07 MAR 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Society Expeditions

Society Expeditions of Seattle, Washington, conducted a total of seven cruises to the Antarctic Peninsula during the 1999-2000 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 92111

November/December 1999
126 PAX; 10 STAFF; 78 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Punta Arenas, CHILE		21 NOV 1999
at sea		22-24 NOV 1999
Aitcho Island	125	24 NOV 1999
Penguin Island	130	25 NOV 1999
Comandante Ferraz Station	139	25 NOV 1999
Hannah Point, Livingston Island	135	26 NOV 1999
Baily Head, Deception Island	103	26 NOV 1999
Pendulum Cove, Deception Island	55	26 NOV 1999
Whalers Bay, Deception Island	68	26 NOV 1999
Almirante Brown Station, Paradise Bay	134	27 NOV 1999
Cuverville Island	123	27 NOV 1999
Port Lockroy, Wiencke Island	132	28 NOV 1999
Pleneau Island	73	28 NOV 1999
Half Moon Island	115	29 NOV 1999
At sea		30 NOV – 01 DEC 1999
Ushuaia, ARGENTINA		02 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD90212
December 1999
113 PAX; 9 STAFF; 77 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		02 DEC 1999
At sea		03-04 DEC 1999
Cuerverville Island	117	05 DEC 1999
Almirante Brown Station, Paradise Bay	120	05 DEC 1999
Port Lockroy, Wiencke Island	137	05 DEC 1999
Neko Harbor, Andvord Bay	113	06 DEC 1999
Baily Head, Deception Island	118	07 DEC 1999
Pendulum Cove, Deception Island	93	07 DEC 1999
Hannah Point, Livingston Island	123	07 DEC 1999
Paulet Island	129	08 DEC 1999
Devil Island	101	08 DEC 1999
Arctowski Station	117	09 DEC 1999
Penguin Island	123	09 DEC 1999
Point Wild, Elephant Island	106*	10 DEC 1999
Orcadas Base, Laurie Island	130	11 DEC 1999
At sea		12 DEC 1999
South Georgia		13-15 DEC 1999
At sea		16-17 DEC 1999
Sea Lion and Bleak Islands		18 DEC 1999
Port Stanley, FALKLAND ISLANDS		19 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD 91912
December 1999/January 2000
96 PAX; 10 STAFF; 81 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		19 DEC 1999
Bleaker Island	112	20 DEC 1999
Sea Lion Island	99	20 DEC 1999
At sea		21-22 DEC 1999
Elsehul Bay, South Georgia	109*	23 DEC 1999
Salisbury Plain, South Georgia	108	23 DEC 1999
Albatross Island, South Georgia	87	23 DEC 1999
Grytviken Station, South Georgia	113	24 DEC 1999
Godthul Bay, South Georgia	96	24 DEC 1999
Gold Harbor, South Georgia	96	25 DEC 1999
Cooper Bay, South Georgia	106	25 DEC 1999
At sea		26 DEC 1999
Orcadas Station, Laurie Island, S. Orkneys	105	27 DEC 1999
Point Wild, Elephant Island	103*	28 DEC 1999
Paulet Island	100	29 DEC 1999
Pendulum Cove, Deception Island	64	30 DEC 1999
Baily Head, Deception Island	85	30 DEC 1999
Enterprise Island	102*	30 DEC 1999
Palmer Station, Anvers Island	118	31 DEC 1999
Torgersen Island	105	31 DEC 1999
Petermann Island	89	31 DEC 1999
Port Lockroy, Wiencke Island	109	01 JAN 2000
Neko Harbor, Andvord Bay	109	01 JAN 2000
Yankee Harbor, Greenwich Island	104	02 JAN 2000
Aitcho Island	102	02 JAN 2000
At sea		03-04 JAN 2000
Ushuaia, ARGENTINA		05 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD 00501

January 2000
129 PAX; 11 STAFF; 79 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 JAN 2000
at sea		06-07 JAN 2000
Aitcho Island	132	07 JAN 2000
Hannah Point, Livingston Island	131	08 JAN 2000
Baily Head, Deception Island	115	08 JAN 2000
Whalers Bay, Deception Island	131	08 JAN 2000
Pendulum Cove, Deception Island	78	08 JAN 2000
Cuerverville Island	130	09 JAN 2000
Almirante Brown Station, Paradise Bay	141	09 JAN 2000
Port Lockroy, Wiencke Island	113	09 JAN 2000
Palmer Station, Anvers Island	144	10 JAN 2000
Petermann Island	112	11 JAN 2000
Neko Harbor, Andvord Bay	138	12 JAN 2000
Melchoir Islands	136*	12 JAN 2000
At sea		13-14 JAN 2000
Ushuaia, ARGENTINA		15 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD 01501

January/February 2000
123 PAX; 12 STAFF; 79 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		15 JAN 2000
at sea		16 JAN 2000
West Point/Carcass Islands		17 JAN 2000
Port Stanley, Falkland Islands		18 JAN 2000
At sea		19-20 JAN 2000

South Georgia		21-23 JAN 2000
At sea		24 JAN 2000
Orcadas Base, Laurie Island	129	25 JAN 2000
at sea		26 JAN 2000
Paulet Island	129	27 JAN 2000
Brown Bluff, Tabarin Peninsula	128	27 JAN 2000
Hannah Point, Livingston Island	123	28 JAN 2000
Whalers Bay, Deception Island	97	28 JAN 2000
Pendulum Cove, Deception Island	36	28 JAN 2000
Cuverville Island	126	29 JAN 2000
Almirante Brown Station, Paradise Bay	147	29 JAN 2000
Port Lockroy, Wiencke Island	118	29 JAN 2000
Vernadskiy Station, Argentine Island	125	30 JAN 2000
At sea		31 JAN – 01 FEB 2000
Ushuaia, ARGENTINA		02 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD 00202

February 2000

124 PAX; 12 STAFF; 78 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		02 FEB 2000
At sea		03 FEB 2000
West Point and Carcass Islands		04 FEB 2000
Port Stanley		05 FEB 2000
At sea		06-07 FEB 2000
South Georgia		08-10 FEB 2000
At sea		11 FEB 2000
Orcadas Base, Laurie Island, S. Orkneys	140	12 FEB 2000
Point Wild, Elephant Island	136*	13 FEB 2000
Snow Hill Island	129	14 FEB 2000
Hannah Point, Livingston Island	137	15 FEB 2000

Baily Head, Deception Island	136	15 FEB 2000
Pendulum Cove, Deception Island	91	15 FEB 2000
Palmer Station, Anvers Island	123	16 FEB 2000
Petermann Island	110	16 FEB 2000
Almirante Brown Station, Paradise Bay	126	17 FEB 2000
Neko Harbor, Andvord Bay	115	17 FEB 2000
At sea		18-19 FEB 2000
Ushuaia, ARGENTINA		20 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise WD-02002

February/March 2000

117 PAX; 12 STAFF; 79 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 FEB 2000
At sea		21 FEB 2000
West Point and Carcass Islands		22 FEB 2000
Port Stanley, Falkland Islands		23 FEB 2000
At sea		24-25 FEB 2000
South Georgia		26-27 FEB 2000
At sea		28 FEB 2000
Orcadas Base, Laurie Island, S. Orkneys	128	29 FEB 2000
Cape Lookout, Elephant Island	111*	01 MAR 2000
Whalers Bay, Deception Island	100	02 MAR 2000
Pendulum Cove, Deception Island	93	02 MAR 2000
Almirante Brown Station, Paradise Bay	129	03 MAR 2000
Port Lockroy, Wiencke Island	128	03 MAR 2000
Detaille Island	126*	04 MAR 2000
Prospect Point, Graham Land	104*	04 MAR 2000

Vernadskiy Station, Argentine Island	129	05 MAR 2000
At sea		06-08 MAR 2000
Punta Arenas, CHILE		09 MAR 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Quark Expeditions

Quark Expeditions of Darien, Connecticut, conducted a total of 19 cruises to the Antarctic during 1999-2000 season using three chartered vessels. The PROFESSOR MULTANOVSKIY conducted 9 cruises, the VAVILOV conducted 8, and the KAPITAN KHLEBNIKOV conducted two. Given below for each cruise is the port of origin, sites visited (with dates) and the return port.

PROFESSOR MULTANOVSKIY

Cruise MLT 061299
November 1999
39 PAX; 7 STAFF; 24 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		18 NOV 1999
At sea		19 NOV 1999
Falkland Islands		20-21 NOV 1999
At sea		22-23 NOV 1999
South Georgia		24-27 NOV 1999
At sea		28-29 NOV 1999
Paulet Island	46	30 NOV 1999
Brown Bluff, Tabarin Peninsula	44	30 NOV 1999
Half Moon Island	46	01 DEC 1999
Whalers Bay, Deception Island	45	01 DEC 1999

Pendulum Cove, Deception Island	43	01 DEC 1999
Cuerverville Island	45	02 DEC 1999
Almirante Brown Station, Paradise Bay	43	02 DEC 1999
Port Lockroy, Wiencke Island	43	02 DEC 1999
At sea		03-05 DEC 1999
Ushuaia, ARGENTINA		06 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 061299
December 1999
42 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX ¹</u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		06 DEC 1999
at sea		07-08 DEC 1999
Brown Bluff, Tabarin Peninsula	48	09 DEC 1999
Paulet Island	48	09 DEC 1999
Half Moon Island	42	10 DEC 1999
Whalers Bay, Deception Island	45	10 DEC 1999
Pendulum Cove, Deception Island	42	10 DEC 1999
Cuerverville Island	44	11 DEC 1999
Danco Island	27	11 DEC 1999
Waterboat Point	47	11 DEC 1999
Skontorp Cove, Paradise Bay	44	12 DEC 1999
Goudier Island	43	12 DEC 1999
Patagonia Bay, Anvers Island	41*	13 DEC 1999
At sea		14-15 DEC 1999
Ushuaia, ARGENTINA		16 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 161299
December 1999
32 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		16 DEC 1999
At sea		17-18 DEC 1999
Aitcho Island	37	18 DEC 1999
Penguin Island	40	19 DEC 1999
Arctowski Station	40	19 DEC 1999
Bellingshausen Station, King George Island	3	19 DEC 1999
Brown Bluff, Tabarin Peninsula	36	20 DEC 1999
Paulet Island	44	20 DEC 1999
Half Moon Island	35	21 DEC 1999
Whalers Bay, Deception Island	37	21 DEC 1999
Pendulum Cove, Deception Island	31	21 DEC 1999
Skontorp Cove, Paradise Bay	37*	22 DEC 1999
Goudier Island	36	22 DEC 1999
Jougla Point, Port Lockroy	16	22 DEC 1999
Vernadskiy Station, Argentine Island	34	23 DEC 1999
Drake Passage (at sea)		24-25 DEC 1999
Ushuaia, ARGENTINA		26 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 261299
December 1999/January 2000
44 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port		Dates
Ushuaia, ARGENTINA		26 DEC 1999
Drake Passage (at sea)		27-28 DEC 1999
Comandante Ferraz Station	49	29 DEC 1999

Esperanza Station	50	29 DEC 1999
Paulet Island	48	29 DEC 1999
Half Moon Island	48	30 DEC 1999
Whalers Bay, Deception Island	49	30 DEC 1999
Pendulum Cove, Deception Island	44	30 DEC 1999
Cuerverville Island	49	31 DEC 1999
Gonzalez Videla Station	48	31 DEC 1999
Neko Harbor, Andvord Bay	26	31 DEC 1999
Neko Harbor, Andvord Bay	32	01 JAN 2000
Skontorp Cove, Paradise Bay	45*	01 JAN 2000
Goudier Island	50	01 JAN 2000
Pleneau Island	48	02 JAN 2000
Petermann Island	40	03 JAN 2000
Damoy Point, Wiencke Island	49	04 JAN 2000
Drake Passage (at sea)		05-06 JAN 2000
Ushuaia, ARGENTINA		07 JAN 2000
Drake Passage (at sea)		05-06 JAN 2000
Ushuaia, ARGENTINA		07 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 070100

January 2000

48 PAX; 5 CREW; 25 STAFF

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		07 JAN 2000
At sea		08 JAN 2000
Saunders & New Islands		09 JAN 2000
At sea		10-11 JAN 2000
Hannah Point, Livingston Island	53	12 JAN 2000
Wilhelmina Bay	52*	13 JAN 2000
Cuerverville Island	53	13 JAN 2000
Gonzalez Videla Station	53	13 JAN 2000

Palmer Station, Anvers Island	53	14 JAN 2000
Torgersen Island	53	14 JAN 2000
Goudier Island	48	14 JAN 2000
Jougla Point, Port Lockroy	48	14 JAN 2000
Neko Harbor, Andvord Bay	53	15 JAN 2000
Melchoir Island	51*	15 JAN 2000
At sea		16-17 JAN 2000
Ushuaia, ARGENTINA		18 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 180100
January/February 2000
48 PAX; 7 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		18 JAN 2000
at sea		19 JAN 2000
New Island/Carcass Island		20 JAN 2000
Port Stanley, Falkland Islands		21 JAN 2000
South Georgia		24-27 JAN 2000
at sea		28-29 JAN 2000
Cape Lookout, Elephant Island	55	30 JAN 2000
Hannah Point, Livingston Island	55	31 JAN 2000
Pendulum Cove, Deception Island	55	31 JAN 2000
Cuverville Island	55	01 FEB 2000
Neko Harbor, Andvord Bay	55	01 FEB 2000
Paradise Bay	55*	01 FEB 2000
Goudier Island	52	01 FEB 2000
Petermann Island	55	02 FEB 2000

Vernadskiy Station, Argentine Island	53	02 FEB 2000
At sea		03-04 FEB 2000
Ushuaia, ARGENTINA		05 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 050200
February 2000
49 PAX; 6 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 FEB 2000
Drake Passage (at sea)		06-07 FEB 2000
Aitcho Island	59	07 FEB 2000
Yankee Harbor, Greenwich Island	57	08 FEB 2000
Half Moon Island	56	08 FEB 2000
Hannah Point, Livingston Island	56	09 FEB 2000
Whalers Bay, Deception Island	45	09 FEB 2000
Pendulum Cove, Deception Island	49	09 FEB 2000
Cuerverville Island	55	10 FEB 2000
Neko Harbor, Andvord Bay	55	10 FEB 2000
Pleneau Island	44*	11 FEB 2000
Petermann Island	55	11 FEB 2000
Port Lockroy, Wiencke Island	51	12 FEB 2000
Jougla Point, Port Lockroy	51	12 FEB 2000
Dallman Bay	56*	12 FEB 2000
Drake Passage (at sea)		13-14 FEB 2000
Ushuaia, ARGENTINA		15 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 150200
February 2000
44 PAX; 6 STAFF; 29 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		15 FEB 2000
Drake Passage (at sea)		16-17 FEB 2000
Aitcho Island	49	17 FEB 2000
Hannah Point, Livingston Island	51	18 FEB 2000
Whalers Bay, Deception Island	38	18 FEB 2000
Pendulum Cove, Deception Island	37	18 FEB 2000
Cuverville Island	42	19 FEB 2000
Neko Harbor, Andvord Bay	49	19 FEB 2000
Paradise Bay	37*	19 FEB 2000
Pleneau Island	44*	20 FEB 2000
Cape Renard, Flanders Bay	28	20 FEB 2000
Paradise Bay	31*	20 FEB 2000
Almirante Brown Station, Paradise Bay	50	21 FEB 2000
Port Lockroy, Wiencke Island	52	21 FEB 2000
Jougla Point, Port Lockroy	46	21 FEB 2000
Damoy Point, Wiencke Island	49	21 FEB 2000
Danco Island	49	22 FEB 2000
Dallman Bay	46*	22 FEB 2000
Drake Passage (at sea)		23-24 FEB 2000
Ushuaia, ARGENTINA		25 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MLT 250200
February 2000
42 PAX; 7 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		25 FEB 2000
at sea		26-27 FEB 2000
Vernadskiy Station, Argentine Island	51	28 FEB 2000
Petermann Island	49	28 FEB 2000
Pleneau Island	40*	28 FEB 2000
Goudier Island	46	29 FEB 2000
Jougla Point, Port Lockroy	33	29 FEB 2000
Skontorp Cove, Paradise Bay	46	29 FEB 2000
Errera Channel	31*	29 FEB 2000
Whalers Bay, Deception Island	48	01 MAR 2000
Half Moon Island	47	01 MAR 2000
At sea		02 MAR 2000
Cape Lookout, Elephant Island	47*	03 MAR 2000
at sea		04-05 MAR 2000
South Georgia		06-09 MAR 2000
At sea		10-11 MAR 2000
Port Stanley, FALKLAND ISLANDS		12 MAR 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

M/V KAPITAN KHLEBNIKOV

Cruise KLB #151299

December 1999/January 2000
90 PAX; 14 STAFF; 65 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Lyttleton, NEW ZEALAND		15 DEC 1999
at sea		16 DEC 1999
Enderby Island	112	17 DEC 1999
Campbell Island	102	18 DEC 1999
At sea		19-21 DEC 1999
Cape Adare	95#	22 DEC 1999
Coulman Island	97#	23 DEC 1999
Cape Washington	95*	24 DEC 1999
Terra Nova Bay	98#	24 DEC 1999
Taylor Valley	97#	25 DEC 1999
Cape Royds, Ross Island	98#	26 DEC 1999
Cape Evans, Ross Island	98#	26 DEC 1999
Ross Ice Shelf	60#	27 DEC 1999
Franklin Island	77	27 DEC 1999
Cape Hallett	91	28 DEC 1999
Cape Hallett	97#	29 DEC 1999
At sea		30-31 DEC 1999
Sturge Island	80*	01 JAN 2000
At sea		02-04 JAN 2000
Buckles Bay, Macquarie Island	100	05 JAN 2000
Sandy Bay, Macquarie Island	91	05 JAN 2000
At sea		06-08 JAN 2000
Hobart, AUSTRALIA		09 JAN 2000

¹ = Includes passengers, staff and crew landed; * = zodiac
cruising only; # = helo landing; ✱ = helo flight-seeing;
♦ = scuba diving; % = snorkeling

Cruise KLB 090100
January/February 2000
108 PAX; 13 STAFF; 65 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Hobart, AUSTRALIA		09 JAN 2000
at sea		10-11 JAN 2000
Buckles Bay, Macquarie Islands	105	12 JAN 2000
Sandy Bay, Macquarie Islands	109	12 JAN 2000
Lusitania Bay	47*	12 JAN 2000
At sea		13-15 JAN 2000
Cape Adare	101	16 JAN 2000
Campbell Glacier	114♣	17 JAN 2000
Terra Nova Bay	112#	18 JAN 2000
Taylor Valley	115#	19 JAN 2000
McMurdo Station, Ross Island	119#	20 JAN 2000
Scott Base, Ross Island	117#	20 JAN 2000
Cape Evans, Ross Island	93	20 JAN 2000
Cape Royds, Ross Island	96#	20 JAN 2000
Drygalski Ice Tongue	113#	21 JAN 2000
Cape Hallett	107	22 JAN 2000
At sea		23-27 JAN 2000
Campbell Island	115	28 JAN 2000
Enderby Island	114	29 JAN 2000
At sea		30-31 JAN 2000
Hobart, AUSTRALIA		01 FEB 2000

¹ = Includes passengers, staff and crew landed; * = zodiac
cruising only; # = helo landing; ♣ = helo flight-seeing;
♦ = scuba diving; % = snorkeling

PROFESSOR SERGEY VAVILOV

Cruise VAV #091299

December 1999

63 PAX; 11 STAFF; 47 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		09 DEC 1999
At sea		10-11 DEC 1999
Aitcho Island	79	12 DEC 1999
Hannah Point, Livingston Island	76	12 DEC 1999
Whalers Bay, Deception Island	68	12 DEC 1999
Cuerverville Island	74	13 DEC 1999
Neko Harbor, Andvord Bay	80	13 DEC 1999
Paradise Bay	77*	14 DEC 1999
Port Lockroy, Wiencke Island	76	14 DEC 1999
Pleneau Island	76*	15 DEC 1999
At sea		16-17 DEC 1999
Ushuaia, ARGENTINA		18 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise VAV #181299

December 1999

65 PAX; 11 STAFF; 49 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		18 DEC 1999
At sea		19-20 DEC 1999
Arctowski Station	75	20 DEC 1999
Paulet Island	81	21 DEC 1999
Brown Bluff, Tabarin Peninsula	85	21 DEC 1999
Baily Head, Deception Island	81	22 DEC 1999
Whalers Bay, Deception Island	57	22 DEC 1999

Cuverville Island	69	23 DEC 1999
Neko Harbor, Andvord Bay	81	23 DEC 1999
Paradise Bay	79*	24 DEC 1999
Goudier Island	80	24 DEC 1999
Jougla Point, Port Lockroy	67	24 DEC 1999
Cape Renard, Flanders Bay	67*	25 DEC 1999
At sea		26-27 DEC 1999
Ushuaia, ARGENTINA		28 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise VAV #281299

December 1999/January 2000

64 PAX; 11 STAFF; 47 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 DEC 1999
At sea		29-30 DEC 1999
Melchoir Islands	70*	30 DEC 1999
Danco Island	76	31 DEC 1999
Neko Harbor, Andvord Bay	77	31 DEC 1999
Neko Harbor, Andvord Bay	49	01 JAN 2000
Cuverville Island	78	01 JAN 2000
Jougla Point, Port Lockroy	71	01 JAN 2000
Goudier Island, Port Lockroy	80	01 JAN 2000
Petermann Island	75	02 JAN 2000
Pleneau Island	2	02 JAN 2000
At sea		03 JAN 2000
Biscoe Point, Anvers Island	64	04 JAN 2000
Cape Renard, Flanders Bay	70*	04 JAN 2000
Paradise Bay	70*	04 JAN 2000
Whalers Bay, Deception Island	80	05 JAN 2000
Hannah Point, Livingston Island	79	05 JAN 2000
Half Moon Island	73	06 JAN 2000

Yankee Harbor, Greenwich Island	73	06 JAN 2000
Aitcho Island	73	06 JAN 2000
At sea		07-08 JAN 2000
Ushuaia, ARGENTINA		09 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise VAV #090100

January 2000

75 PAX; 12 STAFF; 47 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		09 JAN 2000
At sea		10-11 JAN 2000
Petermann Island	84	12 JAN 2000
Pleneau Island	87*	12 JAN 2000
Jougla Point, Port Lockroy	60	12 JAN 2000
Goudier Island, Port Lockroy	86	12 JAN 2000
Neko Harbor, Andvord Bay	90	13 JAN 2000
Paradise Bay	80*	13 JAN 2000
Whalers Bay, Deception Island	85	14 JAN 2000
Pendulum Cove, Deception Island	49	14 JAN 2000
Hannah Point, Livingston Island	10	14 JAN 2000
Half Moon Island	88	14 JAN 2000
Brown Bluff, Tabarin Peninsula	86	15 JAN 2000
Paulet Island	93	15 JAN 2000
Single Cove, Coronation Island	91	16 JAN 2000
At sea		17 JAN 2000
South Georgia		18-21 JAN 2000
At sea		22-23 JAN 2000
Port Stanley, Falkland Islands		24 JAN 2000

Carcass & Westpoint Islands	25 JAN 2000
At sea	26 JAN 2000
Ushuaia, ARGENTINA	27 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise VAV #270100

January/February 2000

76 PAX; 13 STAFF; 46 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		27 JAN 2000
At sea		28-31 JAN 2000
Melchoir Islands	90*	01 FEB 2000
Pleneau Island	91*	02 FEB 2000
Petermann Island	89	02 FEB 2000
Danco Island	82	03 FEB 2000
Paradise Bay	73*	03 FEB 2000
Almirante Brown Station	91	03 FEB 2000
Hannah Point, Livingston Island	90	04 FEB 2000
Half Moon Island	88	04 FEB 2000
Bellingshausen Station, King George Island	11	04 FEB 2000
Port Stanley, Falkland Islands		04 FEB 2000
Steeple Jason		05 FEB 2000
At sea		06 FEB 2000
Ushuaia, ARGENTINA		07 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise VAV #070200
February 2000
75 PAX; 10 STAFF; 47 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		07 FEB 2000
At sea		08-09 FEB 2000
Aitcho Island	87	09 FEB 2000
Robert Point, Robert Island, S. Shetlands	78	09 FEB 2000
Baily Head, Deception Island	83	10 FEB 2000
Hannah Point, Livingston Island	90	10 FEB 2000
Whalers Bay, Deception Island	85	10 FEB 2000
Pendulum Cove, Deception Island	48	10 FEB 2000
Cuverville Island	87	11 FEB 2000
Jouglá Point, Port Lockroy	61	11 FEB 2000
Goudier Island, Port Lockroy	85	11 FEB 2000
Pleneau Island	84*	12 FEB 2000
Vernadskiy Station	73	12 FEB 2000
Almirante Brown Station	87	13 FEB 2000
Suarez Glacier	89*	13 FEB 2000
Neko Harbor, Andvord Bay	53	13 FEB 2000
Andvord Bay,	65*	13 FEB 2000
Half Moon Island	83	14 FEB 2000
Yankee Harbor, Greenwich Island	85	14 FEB 2000
Bellingshausen Station, King George Island	10	14 FEB 2000
At sea		15-16 FEB 2000
Ushuaia, ARGENTINA		17 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise VAV #170200
February 2000
73 PAX; 13 STAFF; 46 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 FEB 2000
At sea		18-19 FEB 2000
Melchoir Islands	74*	19 FEB 2000
Cuverville Island	86	20 FEB 2000
Neko Harbor, Andvord Bay	88	20 FEB 2000
Petermann Island	77	21 FEB 2000
Pleneau Island	85*	21 FEB 2000
Goudier Island, Port Lockroy	87	22 FEB 2000
Jougla Point, Port Lockroy	83	22 FEB 2000
Almirante Brown Station	85	22 FEB 2000
Suarez Glacier	76*	22 FEB 2000
Baily Head, Deception Island	77	23 FEB 2000
Whalers Bay, Deception Island	85	23 FEB 2000
Pendulum Cove, Deception Island	64	23 FEB 2000
Hannah Point, Livingston Island	88	24 FEB 2000
Half Moon Island	85	24 FEB 2000
Aitcho Island	79	24 FEB 2000
At sea		25-26 FEB 2000
Ushuaia, ARGENTINA		27 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise VAV #270200
February/March 2000
74 PAX; 13 STAFF; 46 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		27 FEB 2000
At sea		28-29 FEB 2000

West Point, Falkland Islands	89	29 FEB 2000
Carcass Island, Falkland Islands	92	29 FEB 2000
Port Stanley, Falkland Islands	120	01 MAR 2000
At sea		02-03 MAR 2000
Elsehul Bay, South Georgia	90*	04 MAR 2000
Salisbury Plain, South Georgia	98	04 MAR 2000
Albatross Island, South Georgia	85	04 MAR 2000
Hercules Bay, South Georgia	73	05 MAR 2000
Fortuna Bay, South Georgia	93	05 MAR 2000
Grytviken, South Georgia	93	05 MAR 2000
St. Andrews Bay, South Georgia	100	06 MAR 2000
Royal Bay, South Georgia	87	06 MAR 2000
Cooper Bay, South Georgia	92	07 MAR 2000
Larsen Harbor, South Georgia	85*	07 MAR 2000
At sea		08 MAR 2000
Shingle Cove, Coronation Island	81	09 MAR 2000
At sea		10 MAR 2000
Hannah Point, Livingston Island	90	11 MAR 2000
Whalers Bay, Deception Island	88	11 MAR 2000
Pendulum Cove, Deception Island	71	11 MAR 2000
Cuerverville Island	87	12 MAR 2000
Almirante Brown Station	88	12 MAR 2000
Suarez Glacier	83*	12 MAR 2000
Pleneau Island	82*	13 MAR 2000
Melchoir Islands	93*	13 MAR 2000
At sea		14-15 MAR 2000
Ushuaia, ARGENTINA		16 MAR 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Orient Lines, Inc.

Orient Lines, Inc. of Fort Lauderdale, Florida, conducted 5 cruises to the Antarctic during the 1999-2000 season using the M/V MARCO POLO. Given below for each cruise is the port of origin, sites visited (with dates) and the return port.

MARCO POLO

Cruise MPO-991223

December 1999/January 2000
581 PAX; 16 STAFF; 359 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Buenos Aires, ARGENTINA		24 DEC 1999
At sea		25-29 DEC 1999
Pendulum Cove, Deception Island	583	30 DEC 1999
Port Lockroy, Wiencke Island	579	31 DEC 1999
Gonzales Videla Station	546	01 JAN 2000
Ardley Island	451*	02 JAN 2000
At sea		03 JAN 2000
Ushuaia, ARGENTINA		04 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MPO-010500

January 2000
454 PAX; 16 STAFF; 358 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 JAN 2000
at sea		06 JAN 2000
Pendulum Cove, Deception Island	310	07 JAN 2000
Port Lockroy, Wiencke Island	497	08 JAN 2000

Port Lockroy, Wiencke Island	70	09 JAN 2000
Gonzales Videla Station	489	09 JAN 2000
Half Moon Island	445	10 JAN 2000
at sea		11-12 JAN 2000
Ushuaia, ARGENTINA		13 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MPO-011300

January 2000

496 PAX; 16 STAFF; 354 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		13 JAN 2000
at sea		14 JAN 2000
Pendulum Cove, Deception Island	495	15 JAN 2000
Port Lockroy, Wiencke Island	498	16 JAN 2000
Gonzales Videla Station	547	17 JAN 2000
Half Moon Island	510	18 JAN 2000
at sea		19 JAN 2000
Ushuaia, ARGENTINA		20 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MPO-012100

January 2000

568 PAX; 16 STAFF; 352 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		21 JAN 2000
at sea		22 JAN 2000
Half Moon Island	548	23 JAN 2000

Port Lockroy, Wiencke Island	296	24 JAN 2000
Port Lockroy, Wiencke Island	118	25 JAN 2000
Gonzales Videla Station	119	25 JAN 2000
Neko Harbor, Andvord Bay	333	25 JAN 2000
Pendulum Cove, Deception Island	471	26 JAN 2000
At sea		27 JAN 2000
Ushuaia, ARGENTINA		28 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise MPO-012900

January/February 2000

484 PAX; 16 STAFF; 352 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		29 JAN 2000
at sea		30 JAN 2000
Half Moon Island	533	31 JAN 2000
Port Lockroy, Wiencke Island	478	01 FEB 2000
Gonzales Videla Station	487	01 FEB 2000
Hovgaard Island	384*	02 FEB 2000
At sea		03-10 FEB 2000
McMurdo Station, Ross Island	489	11 FEB 2000
Cape Evans, Ross Island	558	12 FEB 2000
Cape Bird, Ross Island	420*	13 FEB 2000
Terra Nova Bay Station	478	14 FEB 2000
Cruise Cape Hallett/Cape Adare		15-16 FEB 2000
At sea		17-19 FEB 2000
Lyttleton, NEW ZEALAND		20 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Clipper Cruise Lines

Clipper Cruise Lines, of St. Louis, Missouri, conducted seven cruises to the Antarctic during the 1999-2000 season using the M/V CLIPPER ADVENTURER. Given below for each cruise is the port of origin, sites visited (with dates) and the return port.

CLIPPER ADVENTURER

Cruise CA 93047

November 1999

91 PAX; 13 STAFF; 69 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		12 NOV 1999
Carcass Island, Falkland Islands	96	13 NOV 1999
West Point Island, Falkland Islands	96	13 NOV 1999
North Harbor, New Island, Falkland Islands	92	14 NOV 1999
At sea		15-16 NOV 1999
Salisbury Plain, South Georgia	104	17 NOV 1999
Prion Island, South Georgia	90	17 NOV 1999
Hercules Bay, South Georgia	91	18 NOV 1999
Grytviken, South Georgia	116	18 NOV 1999
St. Andrews Bay, South Georgia	95	19 NOV 1999
Cooper Bay, South Georgia	90	19 NOV 1999
At sea		20-22 NOV 1999
Whalers Bay, Deception Island	96	23 NOV 1999
Pendulum Cove, Deception Island	43	23 NOV 1999
Petermann Island	81	24 NOV 1999
Port Lockroy, Wiencke Island	162	24 NOV 1999
Cuerverville Island	91	25 NOV 1999
Paulet Island	92	26 NOV 1999

Esperanza, Hope Bay	103	26 NOV 1999
at sea		27-28 NOV 1999
Ushuaia, ARGENTINA		29 NOV 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA 93048

November/December 1999

75 PAX; 11 STAFF; 69 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		29 NOV 1999
at sea		30 NOV – 01 DEC 1999
Whalers Bay, Deception Island	84	02 DEC 1999
Pendulum Cove, Deception Island	68	02 DEC 1999
Hannah Point, Livingston Island	84	02 DEC 1999
Port Lockroy, Wiencke Island	122	03 DEC 1999
Cuerverville Island	79	04 DEC 1999
Paulet Island	81	05 DEC 1999
Devil Island	81	05 DEC 1999
Crystal Hill, Trinity Peninsula	77	05 DEC 1999
Brown Bluff, Tabarin Peninsula	81	06 DEC 1999
Esperanza Station, Hope Bay	83	06 DEC 1999
at sea		07-08 DEC 1999
Ushuaia, ARGENTINA		09 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA 93049

December 1999
100 PAX; 12 STAFF; 71 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		09 DEC 1999
at sea		10-11 DEC 1999
Penguin Island	101	11 DEC 1999
Arctowski Station, King George Island	98	12 DEC 1999
Aitcho Island	103	12 DEC 1999
Neko Harbor, Andvord Bay	105	13 DEC 1999
Goudier Island/Jougla Point, Port Lockroy	128	13 DEC 1999
At sea		14 DEC 1999
Paulet Island	102	15 DEC 1999
At sea		16-18 DEC 1999
West Point Island, Falkland Islands	104	19 DEC 1999
Carcass Island, Falkland Islands	106	19 DEC 1999
Port Stanley, FALKLAND ISLANDS		20 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA 99004

December 1999/January 2000
88 PAX; 14 STAFF; 75 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		20 DEC 1999
Falklands		21 DEC 1999
at sea		22-27 DEC 1999
Cape Dundas, Laurie Island, South Orkneys	104	28 DEC 1999
Cape Lookout, Elephant Island	103	29 DEC 1999
Baily Head, Deception Island	99	30 DEC 1999
Pendulum Cove, Deception Island	81	30 DEC 1999
Hannah Point, Livingston Island	104	30 DEC 1999

Devil Island	106	31 DEC 1999
Paulet Island	104	01 JAN 2000
Leith Cove, South Georgia	102	02 JAN 2000
at sea		04-05 JAN 2000
Ushuaia, ARGENTINA		06 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA 03002

January 2000

103 PAX; 14 STAFF; 68 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		17 JAN 2000
Carcass Island, Falkland Islands	108	18 JAN 2000
West Point Island, Falkland Islands	105	18 JAN 2000
at sea		19 JAN 2000
Cape Lookout, Elephant Island	103	20 JAN 2000
Paulet Island	107	21 JAN 2000
Hope Bay	108	21 JAN 2000
Cuverville Island	104	22 JAN 2000
Neko Harbor, Andvord Bay	105	22 JAN 2000
Jougla Point, Port Lockroy	108	23 JAN 2000
Goudier Island, Port Lockroy	108	23 JAN 2000
Petermann Island	104	23 JAN 2000
Almirante Brown Station	102	24 JAN 2000
Suarez Glacier	102	24 JAN 2000
Melchoir Island	95*	24 JAN 2000
Hannah Point, Livingston Island	74	25 JAN 2000
Whalers Bay, Deception Island	100	25 JAN 2000

Pendulum Cove, Deception Island	77	25 JAN 2000
At sea		26-27 JAN 2000
Port Stanley, FALKLAND ISLANDS		28 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA 03003

January/February 2000

101 PAX; 14 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 JAN 2000
at sea		29-31 JAN 2000
Petermann Island	110	01 FEB 2000
Palmer Station, Anvers Island	112	02 FEB 2000
Torgersen Island	112	02 FEB 2000
Neko Harbor, Andvord Bay	106	02 FEB 2000
Almirante Brown Station	100	03 FEB 2000
Whalers Bay, Deception Island	107	04 FEB 2000
Pendulum Cove, Deception Island	81	04 FEB 2000
Aitcho Island	113	04 FEB 2000
Arctowski Station, King George Island	118	05 FEB 2000
Penguin Island	105	05 FEB 2000
at sea		06-07 FEB 2000
Ushuaia, ARGENTINA		08 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA 03004
February 2000
88 PAX; 15 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		08 FEB 2000
at sea		09-10 FEB 2000
Fish Island	96*	11 FEB 2000
Petermann Island	94	12 FEB 2000
Dorian Bay, Wiencke Island	105	12 FEB 2000
Jougla Point, Port Lockroy	96	13 FEB 2000
Goudier Island, Port Lockroy	96	13 FEB 2000
Almirante Brown Station	101	13 FEB 2000
Neko Harbor, Andvord Bay	101	13 FEB 2000
Melchoir Island	95*	14 FEB 2000
Cuerverville Island	94	14 FEB 2000
Whalers Bay, Deception Island	96	15 FEB 2000
Pendulum Cove, Deception Island	82	15 FEB 2000
Aitcho Island	98	15 FEB 2000
Arctowski Station, King George Island	104	16 FEB 2000
at sea		17-18 FEB 2000
Ushuaia, ARGENTINA		19 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CA 03005
January/February 2000
104 PAX; 14 STAFF; 69 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		19 FEB 2000
at sea		20-21 FEB 2000
Penguin Island	114	21 FEB 2000
Whalers Bay, Deception Island	110	22 FEB 2000

Telefon Bay, Deception Island	90	22 FEB 2000
Half Moon Island	112	22 FEB 2000
Cuverville Island	111	23 FEB 2000
Neko Harbor, Andvord Bay	113	23 FEB 2000
Dorian Bay, Wiencke Island	101	23 FEB 2000
Jougla Point, Port Lockroy	110	24 FEB 2000
Goudier Island, Port Lockroy	110	24 FEB 2000
Petermann Island	111	24 FEB 2000
Paradise Bay	112	25 FEB 2000
Aitcho Island	113	26 FEB 2000
Pendulum Cove, Deception Island	96	26 FEB 2000
Hannah Point, Livingston Island	110	26 FEB 2000
at sea		27-28 FEB 2000
Ushuaia, ARGENTINA		29 FEB 2000

Holland America Line

Holland American Line of Seattle, Washington, conducted an around the world voyage of the M/S ROTTERDAM VI that included cruising the islands in the Antarctic Peninsula during the 1999-2000 season. No passenger landings were conducted. Below is a rough itinerary of the vessel's cruise.

M/V ROTTERDAM VI

Cruise – World Cruise-#54

January/April 2000

936 PAX; 3 STAFF; 656 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ft. Lauderdale, FLORIDA		06 JAN 2000
At sea		05-27 JAN 2000
Cruising Bransfield Strait, Neumayer Channel, Lemaire Channel, Paradise Bay, and Gerlache Strait		28 JAN 2000

Cruising Bransfield Strait, Antarctic Sound and Hope Bay	29 JAN 2000
Bransfield Strait, Elephant Island	30 JAN – 10 APR 2000
Los Angeles, CALIFORNIA	11 APR 2000

Mountain Travel*Sobek

Mountain Travel*Sobek of El Cerrito, California, conducted seven cruises to the Antarctic during the 1999-2000 season using the AKADEMIK SHULEYKIN.

Cruise SHU-#9916

December 1999
35 PAX; 10 STAFF; 28 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		12 DEC 1999
At sea		13-14 DEC 1999
Arctowski Station, King George Island	2	15 DEC 1999
Penguin Island	44	15 DEC 1999
Astrolabe Island	44*	15 DEC 1999
Cuerverville Island	44	16 DEC 1999
Neko Harbor, Andvord Bay	47	16 DEC 1999
Almirante Brown, Paradise Bay	43	17 DEC 1999
Port Lockroy, Wiencke Island	45	18 DEC 1999
Enterprise Island	42	18 DEC 1999
Baily Head, Deception Island	44	19 DEC 1999
Whalers Bay, Deception Island	45	19 DEC 1999
At sea		20-21 DEC 1999
Ushuaia, ARGENTINA		22 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise SHU-#9917
December 1999/January 2000
23 + 18 PAX; 8 STAFF; 28 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		22 DEC 1999
At sea		23-24 DEC 1999
Heroína Island, Danger Island	31	25 DEC 1999
Paulet Island	31	25 DEC 1999
Arctowski Station, King George Island	30	26 DEC 1999
Cuerverville Island	29	27 DEC 1999
Neko Harbor, Andvord Bay	29	27 DEC 1999
Port Lockroy, Wiencke Island	29	28 DEC 1999
Petermann Island	29	28 DEC 1999
Pleneau Island	28*	28 DEC 1999
Almirante Brown, Paradise Bay	29	29 DEC 1999
Gonzalez Videla Station, Paradise Bay	29	29 DEC 1999
Whalers Bay, Deception Island	28	30 DEC 1999
Embark 18 additional PAX, Deception Is.		31 DEC 1999
Whalers Bay, Deception Island	46	31 DEC 1999
Aitcho Island	45	01 JAN 2000
Paulet Island	44	02 JAN 2000
Gourdin Island	45	02 JAN 2000
Portal Point, Charlotte Bay	47	03 JAN 2000
Cuerverville Island	42	03 JAN 2000
Petermann Island	42	04 JAN 2000
Port Lockroy, Wiencke Island	48	04 JAN 2000
Mikkelsen Harbor, Trinity Island	47	05 JAN 2000
Baily Head, Deception Island	47	05 JAN 2000
At sea		06-07 JAN 2000
Ushuaia, ARGENTINA		08 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise SHU-#001a

January 2000
44 PAX; 8 STAFF; 28 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		08 JAN 2000
At sea		09-10 JAN 2000
Paulet Island	54	11 JAN 2000
Brown Bluff, Tabarin Peninsula	54	11 JAN 2000
Arctowski Station, King George Island	54	12 JAN 2000
Portal Point, Charlotte Bay	55	13 JAN 2000
Neko Harbor, Andvord Bay	55	13 JAN 2000
Yalour Island	53	14 JAN 2000
Almirante Brown Station, Paradise Bay	53	14 JAN 2000
Baily Head, Deception Island	54	15 JAN 2000
Whalers Bay, Deception Island	56	15 JAN 2000
At sea		16-17 JAN 2000
Ushuaia, ARGENTINA		18 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise SHU-#0001b

January 2000
46 PAX; 4 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		18 JAN 2000
At sea		19-20 JAN 2000
Heroina Island, Danger Island	54	21 JAN 2000
Paulet Island	51	21 JAN 2000
Half Moon Island	50	22 JAN 2000
Cuverville Island	52	23 JAN 2000
Port Lockroy, Wiencke Island	54	23 JAN 2000
Petermann Island	52	24 JAN 2000

Vernadsky Station, Argentine Island	51	24 JAN 2000
Neko Harbor, Andvord Bay	53	24 JAN 2000
Whalers Bay, Deception Island	47	25 JAN 2000
Hannah Point, Livingston Island	52	25 JAN 2000
At sea		26-27 JAN 2000
Ushuaia, ARGENTINA		28 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise SHU-#0001c

January/February 2000

40 PAX; 8 STAFF; 25 CREW

<u>Ports</u>	<u># PAX ¹ Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 JAN 2000
At sea		29-30 JAN 2000
Hannah Point, Livingston Island	48	30 JAN 2000
Mikkelsen Harbor, Trinity Island	47	31 JAN 2000
Prospect Point, Graham Land	42*	01 FEB 2000
Yalour Island	45	02 FEB 2000
Pleneau Island	43	02 FEB 2000
Gonzalez Videla Station, Paradise Bay	47	03 FEB 2000
Port Lockroy, Wiencke Island	51	04 FEB 2000
Palmer Station	54	04 FEB 2000
Enterprise Island	46	05 FEB 2000
Portal Point, Charlotte Bay	36	05 FEB 2000
Pendulum Cove, Deception Island	36	06 FEB 2000
Whalers Bay, Deception Island	46	06 FEB 2000
Astrolabe Island	45*	06 FEB 2000
Paulet Island	45	07 FEB 2000
Brown Bluff, Tabarin Peninsula	48	07 FEB 2000

Half Moon Island	38	08 FEB 2000
Yankee Harbor, Greenwich Islands	40	08 FEB 2000
At sea		09-10 FEB 2000
Ushuaia, ARGENTINA		11 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise SHU-#0002

February 2000

34 PAX; 11 STAFF; 26 CREW

<u>Ports</u>	<u># PAX</u> ¹	<u>Dates</u>
Ushuaia, ARGENTINA		11 FEB 2000
At sea		12-13 FEB 2000
Aitcho Island	45	13 FEB 2000
Comandante Ferraz Station, King George Is.	45	14 FEB 2000
Portal Point, Charlotte Bay	39*	15 FEB 2000
Cuerverville Island	40	15 FEB 2000
Port Lockroy, Wiencke Island	45	16 FEB 2000
Vernadsky Station, Argentine Island	39^	16 FEB 2000
Yalour Island	36	17 FEB 2000
Petermann Island	36	18 FEB 2000
Yalour Island	38	18 FEB 2000
Ronge Island	44	19 FEB 2000
Port Lockroy, Wiencke Island	34	20 FEB 2000
Port Lockroy, Wiencke Island	37	21 FEB 2000
Paradise Bay	42	21 FEB 2000
Neko Harbor, Andvord Bay	42	22 FEB 2000
At sea		23-24 FEB 2000
Ushuaia, ARGENTINA		25 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only; ^ = camping

Cruise SHU-#0003
February/March 2000
42 PAX; 9 STAFF; 26 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		25 FEB 2000
At sea		26-27 FEB 2000
Port Lockroy, Wiencke Island	48	28 FEB 2000
Vernadsky Station, Argentine Island	48	28 FEB 2000
Neko Harbor, Andvord Bay	48	29 FEB 2000
Ronge Island	21	29 FEB 2000
Brown Bluff, Tabarin Peninsula	48	01 MAR 2000
At sea		02-03 MAR 2000
Paulet Island	46	04 MAR 2000
King Haakon Bay, South Georgia	48	04 MAR 2000
Gold Harbor, South Georgia	47	05 MAR 2000
St. Andrews Bay, South Georgia	60	05 MAR 2000
Grytviken Station, South Georgia	48	06 MAR 2000
Fortuna Bay, South Georgia	47	06 MAR 2000
Stromness Bay, South Georgia	20	06 MAR 2000
Albatross Island, South Georgia	48	07 MAR 2000
Elsehul Bay, South Georgia	45*	07 MAR 2000
At sea		08-09 MAR 2000
Port Stanley, Falkland Islands	48	10 MAR 2000
New Island, Falkland Islands	44	11 MAR 2000
West Point Island, Falkland Islands	47	12 MAR 2000
Carcass Island, Falkland Island	47	12 MAR 2000
At sea		13 MAR 2000
Ushuaia, ARGENTINA		14 MAR 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Special Expeditions, Inc.

Special Expeditions, Inc. of New York City, New York, conducted six cruises to the Antarctic during the 1999-2000 season, using the M/V CALEDONIAN STAR. Given below for each cruise is the port of origin, sites visited (with dates) and the return port.

M/V CALEDONIAN STAR

Cruise CS #4925

December 1999

82 PAX; 9 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Punta Arenas, CHILE		10 DEC 1999
At sea		11-12 DEC 1999
Aitcho Island	99	13 DEC 1999
Fort Point, Greenwich Island, S. Shetlands	61	13 DEC 1999
Yankee Harbor, Greenwich Is., S. Shetlands	78	14 DEC 1999
Paulet Island	90	14 DEC 1999
Crystal Hill, Trinity Peninsula	85	15 DEC 1999
Brown Bluff, Tabarin Peninsula	57	15 DEC 1999
Cuverville Island	89	16 DEC 1999
Petermann Island	43	17 DEC 1999
Port Lockroy, Wiencke Island	101	17 DEC 1999
Hydrurga Rocks	82	17 DEC 1999
Whalers Bay, Deception Island	91	18 DEC 1999
Telefon Bay, Deception Island	84	18 DEC 1999
Pendulum Cove, Deception Island	61	18 DEC 1999
Hannah Point, Livingston Island	84	18 DEC 1999
At sea		19-20 DEC 1999
Ushuaia, ARGENTINA		21 DEC 1999

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS #4000
December 1999/January 2000
77 PAX; 9 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		21 DEC 1999
At sea		22 DEC 1999
Falkland Islands		23-25 DEC 1999
At sea		26 DEC 1999
Point Wild, Elephant Island	82*	27 DEC 1999
Cape Valentine, Elephant Island	46*	27 DEC 1999
Paulet Island	89	28 DEC 1999
Rum Cove, James Ross Island	89	29 DEC 1999
Crystal Hill, Trinity Peninsula	90	29 DEC 1999
Hydrurga Rocks	80	30 DEC 1999
Port Lockroy, Wiencke Island	93	31 DEC 1999
Pleneau Island	82	31 DEC 1999
Damoy Point, Wiencke Island	80	01 JAN 2000
Danco Island	69	01 JAN 2000
Cuerverville Island	84	01 JAN 2000
Whalers Bay, Deception Island	86	02 JAN 2000
Telefon Bay, Deception Island	80	02 JAN 2000
Yankee Harbor, South Greenwich Island	80	02 JAN 2000
Fort Point, South Greenwich Island	70	02 JAN 2000
At sea		03-05 JAN 2000
Punta Arenas, CHILE		06 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS #4001

January 2000
107 PAX; 10 STAFF; 67 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Punta Arenas, CHILE		06 JAN 2000
At sea		07-08 JAN 2000
Aitcho Islands	115	09 JAN 2000
Paulet Island	97	10 JAN 2000
Bald Head, Trinity Peninsula	114	11 JAN 2000
Devil Island	104	11 JAN 2000
Palmer Station, Anvers Island	137	12 JAN 2000
Torgersen Island	101	12 JAN 2000
Almirante Brown Station	105	13 JAN 2000
Goudier Island, Port Lockroy, Wiencke Is.	102	13 JAN 2000
Jougla Point, Port Lockroy, Wiencke Island	87	13 JAN 2000
Hannah Point, Livingston Island	93	14 JAN 2000
Telefon Bay, Deception Island	93	14 JAN 2000
Point Wild, Elephant Island	103*	15 JAN 2000
Falkland Islands		16-18 JAN 2000
At sea		19-20 JAN 2000
Ushuaia, ARGENTINA		21 JAN 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS #4002

January/February 2000
85 PAX; 12 STAFF; 65 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Port		Dates
Ushuaia, ARGENTINA		21 JAN 2000
At sea		22 JAN 2000

Falkland Islands		23-25 JAN 2000
At sea		26-27 JAN 2000
Devil Island	99	28 JAN 2000
Bald Head, Trinity Peninsula	100	28 JAN 2000
Snow Hill Island	94	29 JAN 2000
Paulet Island	99	29 JAN 2000
Hannah Point, Livingston Island	92	30 JAN 2000
Whalers Bay, Deception Island	95	30 JAN 2000
Pendulum Cove, Deception Island	44	30 JAN 2000
Enterprise Islands	90*	31 JAN 2000
Goudier Island, Port Lockroy, Wiencke Island	90	31 JAN 2000
Jougla Point, Port Lockroy, Wiencke Island	68	31 JAN 2000
Skontorp Cove, Paradise Bay	78*	31 JAN 2000
Yalour Islands	84*	01 FEB 2000
At sea		02-04 FEB 2000
Punta Arenas, CHILE		05 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS #4003

February 2000

100 PAX; 11 STAFF; 65 CREW

<u>Ports</u>	<u># PAX</u> ¹ <u>Landed</u>	<u>Dates</u>
Punta Arenas, CHILE		05 FEB 2000
At sea		06-07 FEB 2000
Hannah Point, Livingston Island	110	08 FEB 2000
Whalers Bay, Deception Island	113	08 FEB 2000
Jougla Point, Port Lockroy, Wiencke Island	77	09 FEB 2000
Goudier Island, Port Lockroy, Wiencke Island	98	09 FEB 2000
Palmer Station, Anvers Island	120	09 FEB 2000
Torgersen Island	94	09 FEB 2000
Prospect Point, Graham Land	107*	10 FEB 2000
Yalour Islands	101*	11 FEB 2000

Skontorp Cove, Paradise Bay	104	11 FEB 2000
Bald Head, Trinity Peninsula	112	12 FEB 2000
Snow Hill Island	107	13 FEB 2000
Brown Bluff, Tabarin Peninsula	66	13 FEB 2000
At sea		14-15 FEB 2000
Ushuaia, ARGENTINA		16 FEB 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Cruise CS #6

February/March 2000

72 PAX; 12 STAFF; 65 CREW

<u>Ports</u>	<u># PAX ¹</u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		16 FEB 2000
At sea		17-18 FEB 2000
Jouglu Point, Port Lockroy, Wiencke Island	74	19 FEB 2000
Goudier Island, Port Lockroy, Wiencke Is.	80	19 FEB 2000
Palmer Station, Anvers Island	87	19 FEB 2000
Torgersen Island	72	19 FEB 2000
Petermann Island	74	20 FEB 2000
Cuerverville Island	84	20 FEB 2000
Telefon Bay, Deception Island	64	21 FEB 2000
Baily Head, Deception Island	57	21 FEB 2000
Pitt Point (Victory Glacier)	85	22 FEB 2000
Penguin Point, Seymour Island	78	23 FEB 2000
Paulet Island	76	23 FEB 2000
Cape Valentine, Elephant Island	2*	24 FEB 2000
Point Wild, Elephant Island	83*	24 FEB 2000
Gibbon Bay, Coronation Island	84*	25 FEB 2000
At sea		25 FEB 2000
South Orkneys		26 FEB 2000
At sea		27 FEB 2000
South Georgia		28 FEB – 02 MAR 2000

At sea	03-04 MAR 2000
Falkland Islands	05-06 MAR 2000
At sea	07 MAR 2000
Punta Arenas, CHILE	08 MAR 2000

¹ = Includes passengers, staff and crew landed

* = zodiac cruising only

Other

In addition, several other organizations conducted or supported tourism activities in the Antarctic during the 1999-2000 season. Although some of these organizations are not U.S. based, some American citizens were 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 29 cruises to the Antarctic Peninsula using the AKADEMIK IOFFE, the ORLOVA and the AKADEMIK SHUELYKIN.

LANDBASED

Adventure Network International (ANI), a Canadian company with an office in Beaconsfield, England, conducted several 11-17-day excursions to the interior of the Antarctic continent. Travel from Punta Arenas, Chile, to Adventure Network's Patriot Hills base camp (80°20'S, 81°20'W) was via a South African chartered C-130 cargo/passenger aircraft. These various inland excursions occurred during November 1999 - mid-January 2000 using two chartered Twin Otters and their own Cessna C-A185F aircraft.

XI. Refuges

Section XI of the Modifications of Activities Planned for 1999-2000 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 1999-2000 season.

XII. Permits, Species Killed, Captured

The following chart provides information on Antarctic Conservation Act (P.L. 95-541) Permits issued during 1 July 1999 to 30 June 2000.

Permit #	Active Dates	Permit Activity	Location	Purpose
2000-001	21 Sep 99 – 31 Jan 2005	Take/Entry into ASPA /Import into U.S.	Antarctic Peninsula, Victoria Land, Ross Sea and McMurdo Station vicinity	Conduct surveys and excavations (no more than 1x1 m test pits) of sediments from modern and abandoned penguin colonies to determine patterns in population fluctuations in relation to climate change in the past.
2000-004	21 Sep 99 – 28 Feb 2002	Taking/Import into U.S.	McMurdo Sound area	Temporarily attach depth and physiological recorders to Emperor penguin chicks and adults to study thermo-regulation and underwater diving behavior. In addition, muscles will be biopsied to ex-amine myoglobin mRNA content in relation to myoglobin concentration in both adults and developing chicks.
2000-005	08 Oct 99 – 01 Apr 2001	Taking/Import into U.S.	Ross and Amundsen seas	Capture and release seals to collect blood and biopsy samples, in order to assess a suite of bio-indicators of health. This data will be used along with other data to provide the most detailed model of the link between ice seals and the environment.

Permit #	Active Dates	Permit Activity	Location	Purpose
2000-07	01 Dec 99 – 28 Feb 2002	Take/ Entry into ASPA	Beaufort Island (ASPAs #105)/ Cape Royds (ASPAs #121)/ Cape Crozier (ASPAs #124)	Capture, tag, weigh and collect blood and stomach samples from Adelie penguins to determine why the penguins at the smaller Royds rookery are growing faster than those at the larger Crozier site.
2000-008	01 Oct 99 – 28 Feb 2005	Entry into ASPA	Canada Glacier (ASAP #131)	Access ASPA to provide maintenance on the continuously recording stream gage and collect water quality samples as part of a Long Term Ecological Research program. The extensive microbial mats and mosses growing in the Canada stream are unique compared to other areas in the Dry Valleys. The stream gage on the Canada stream provides one of the longest records of discharge in the Taylor Valley.
2000-010	04 Oct 99 – 31 Jan 2002	Introduction into Antarctica	Amundsen-Scott South Pole Station	Introduction of commercially packaged freeze-dried yeast to be exposed to the extreme climate at South Pole during the winter. The yeast will then be used as part of an educational outreach program where students will look for changes in the yeast's metabolic activity.
2000-011	08 Oct 99 – 30 Aug 2004	Taking/Import into U.S.	Circumpolar pack ice	As a component of a multi-disciplinary Antarctic Pack Ice Seal study, seals will be captured, tagged, marked, instrumented and biological samples (biopsies, blood, urine, teeth, etc.) collected. Samples will be returned to the U.S. for further analysis.
2000-012	21 Sep 99 – 31 Aug 2004	Entry into ASPA	Antarctic Peninsula/ Western Shore Admiralty Bay (ASPAs #128)	Continue site surveys and census of fauna and flora at various heavily visited sites to collect data for the Antarctic Site Inventory Project.

Permit #	Active Dates	Permit Activity	Location	Purpose
2000-013 and 2001-008	01 Nov 99 – 28 Feb 2000 01 Aug 00 – 01 Mar 2001	Entry into ASPA	Cape Crozier (ASPA #124)	Enter edges of ASPA for purposes of filming Adelie and Emperor penguins during nesting, egg tending and egg hatching. Under-water filming of penguins, leopard seals, Orcas and Minke whales.
2000-014	01 Oct 99 – 30 Apr 2001	Taking/Import into U.S.	Antarctic Peninsula, East Antarctica and Ross Sea region	Collect blood samples from penguins for analysis of the phylogenetic relationships and population genetics of 2 major genera of penguins. In addition, blood samples from seabirds and penguins near Davis Station will be collected to investigate the diseases reported in these populations.
2000-015	01 Jan 00 – 31 Jan 2004	Taking/Import into U.S.	Antarctic Peninsula regions	Conduct satellite-monitored radio tagging (Telonics transmitter ST-15) studies of humpback, blue and fin whales to track movements, migration routes and location of individuals. In addition, collect biopsy samples for sex determination and genetic analysis.
2000-016	01 Dec 99 – 30 Dec 2004	Entry into ASPA	Tramway Ridge (ASPA #130)	Enter site to measure temperature of the soil as a means of monitoring the volcanic activity of Mount Erebus. In addition, collect soil samples to measure the quantity of CO ² and measure its flux into the atmosphere which provides information on the degassing behavior of the magmatic system.
2000-017	10 Nov 99 – 31 Dec 99	Introduction into Antarctica	McMurdo Station	Perform positive control experiments when measuring denitrification rates at Lake Bonney using bacterial cultures originally isolated from the lake.
2000-018	10 Nov 99 – 31 Jan 2000	Entry into ASPA	Barwick Valley (ASPA #123)	Enter site to map lacustrine deposits and collect samples of evaporates and algae for radio-carbon and uranium-thorium dating.

Permit #	Active Dates	Permit Activity	Location	Purpose
2000-019	20 Dec 99 – 20 Feb 2001	Introduction into Antarctica	McMurdo Station	Bacterial cultures of <i>E. coli</i> are a component of several molecular biology DNA cloning kits used for research in the Cray Lab.
2000-020	15 Dec 99 – 20 Apr. 2000	Taking/Import into U.S.	Ross Sea region	Capture Emperor penguins to collect stomach contents and attach recorders/transmitters. Data collected will be used in an ecosystem analysis of the Ross Sea.
2000-021	10 Nov 99 – 15 Jan 2004	Taking/Import into U.S.	Circumpolar pack ice and sites ashore	Tag and collect biological samples from seals as part of a project to study the feeding ecology, reproduction, and population dynamics of Antarctic seals and examine their role in the marine ecosystem.
2000-23	21 Jan 00 – 01 Mar 2000	Taking	Palmer Station vicinity	Salvage dead specimens for the educational outreach collection of the Palmer Long Term Ecological Research project.
2000-024	22 Jan 00 – 01 Mar 2000	Taking/Entry into ASPA	Lake Fryxell (ASPA #131)	Collect cyano-bacterial assemblages from the lake ice cover to examine the physiological responses and community structures that are selected by the ice-cover environment.
2001-001	01 Apr 00 – 31 Mar 2005	Entry into ASPA	Litchfield Island (ASPA # 113)	Enter site to inspect and resupply the survival cache that is required for boating safety.
2001-002	01 Apr 00 – 31 Mar 2005	Taking	McMurdo Station and associated airfields	Taking associated with removing penguins, seals and skuas from McMurdo Station and associated airfields to ensure safety of operations and protection of the animals.
2001-003	01 Apr 00 – 31 Mar 2005	Entry into ASPA	Northwest White Island (ASPA #137)	Entry into ASPA for access to and maintenance of Black Island INMARSAT transmitting and receiving equipment.

Permit #	Active Dates	Permit Activity	Location	Purpose
2001-004	01 Apr 00 – 31 Mar 2005	Entry into ASPA	Western Shore of Admiralty Bay (ASPA #128)	Entry into ASPA for movement of personnel and supplies to and from the U.S. research station, Copacabana.
2001-005	01 Apr 00 – 31 Mar 2005	Taking	Palmer Station	Taking associated with removing penguins, seals and other birds from the Palmer Station pier to ensure safety of operations and protection of the animals.
2001-006	15 May 00 – 30 Jun 2000	Taking/Entry into ASPA/ Import into U.S.	Shores of Port Foster (ASPA #140)	Collect sand and snow samples for analyses for aerosol sources of iron.
2001-007	15 May 00 – 30 Jun 2000	Introduce into Antarctica	Antarctic Peninsula	Use of unicellular algal species in rearing Antarctic zooplankton in a study of the larvae of benthic organisms, and their larval life history in understanding the demography of bottom organisms.
2001-010	28 Jun 00 – 1 Apr 2001	Entry into ASPA	Byers Peninsula (ASPA #126)	Entry into ASPA to reconnoiter possible landing sites and camp sites along the southern shore for a future research camp.

ASPA = Antarctic Specially Protected Area (formerly SPA's and SSSI's)

XIII. Radioactive Materials

Section XIII of the Modifications of Activities Planned for 1999-2000 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>
BP-016-O	¹⁴ C	¹⁴ C – Sodium bicarbonate	NATHANIEL B. PALMER	LTERR on the Antarctic Marine Ecosystem: An Ice Dominated Environment - Phytoplankton Ecology Component
BM-042-P	³ H	³ H – Thymidine	McMurdo Station/Dry Valleys	McMurdo Dry Valleys: A Cold Desert Ecosystem
BP-046-O	³ H	³ H – Thymidine	R/V LAURENCE M. GOULD; R/V NATHANIEL B. PALMER	LTERR: Microbiology and carbon flux
OO-124-O	⁶³ Ni	⁶³ Ni – Nickel	R/V LAURENCE M. GOULD	Measurements of the circumpolar deep water formation.
AB-144-O	²⁴¹ Am ¹⁰⁹ Cd ⁵⁷ Co	²⁴¹ Am – Americium ¹⁰⁹ Cd – Cadmium ⁵⁷ Co - Cobalt	McMurdo	Experimentation to observe terrestrial x-rays associated with the aurora australis.
BO-197-O	³² P	³² P – Uridine Adenosine	McMurdo	Investigation of emperor penguin diving physiology.

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
OO-274-O	⁶³ Ni	⁶³ Ni – Nickel	R/V NATHANIEL B. PALMER	Measurements of the circumpolar deep water formation.
BO-310-O	³ H	Tritium	McMurdo Station	Determination of Dry Valley Lake Organisms

Delete

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
BP-046-O	¹⁴ C	¹⁴ C – Sodium Bicarbonate	R/V LAURENCE M. GOULD; R/V NATHANIEL B. PALMER	LTER: Microbiology and carbon flux
BO-301-O	³² P	³² P - Nucleic Acids	McMurdo Station	Metabolic studies of various Antarctic organisms
BO-310-O	³ H	³ H – Thymidine	McMurdo Station	Determination of Dry Valley Lake Organisms

XIV. Research Rockets

*Section XIV of the Modifications of Activities Planned for
1999-2000 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 1999-2000 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 1999-2000 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 cruises during the period of 30 March 1999 through 31 March 2000. Cruises are:

Cruise NBP99-3

28 March – 11 April 1999: *Studies of sediment dispersal patterns across the Palmer Deep region of Antarctica.*

GO-072-O (Domack)

Cruise NBP99-4

15 April – 10 May 1999: *Study of Hydrothermal Activity in the Bransfield Strait region of Antarctica*

GO-060-O (Klinkhammer)

Cruise NBP99-5

14 May – 06 June 1999: *Support of ongoing land- and ocean-based seismometer deployments in the South Shetland Island Archipelago region of Antarctica.*

GO-135-O (Dorman) GO-097-O (Wiens)

Cruise NBP99-6

11 June – 16 July 1999: *Long-Term Study of the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)*

BP-013-O (Fraser) BP-016-O (Vernet) BP-021-O (Martinson) BP-028-O (Quetin) BP-032-O (Smith) BP-046-O (Karl)

Cruise NBP99-7

19 July – 17 August: *Maintenance Period in Talcahuano, Chile. Installation of Terascan and U.S. Coast Guard Inspection were major projects for this dry dock of the R/V NATHANIEL B. PALMER.*

Cruise NBP99-8

17 August – 8 September 1999: *Mapping Magnetic Anomalies across the southern Pacific Ocean.*

GO-071-O (Cande)

Vessel Lay-Up Period

8 September – 20 December 1999: *Lay-up period in Christchurch, New Zealand. A charter-required propulsion systems test and a UNOLS Inspection occurred during this time along with several maintenance and repair projects.*

Cruise NBP99-9

20 December 1999 – 10 February 2000: *Study of Pack Ice Seals in the Southern Ocean/Ross Sea regions of Antarctica.*

BE-198-A (Bengtson) BE-198-B (Torres) BE-198-C (Ackley) BE-198-D (Quetin) BE-199-O (Castellini) BE-229-O (Stewart) BE-230-O (Yochem) BE-309-O (Siniff)

Biology & Medicine

Principal Investigator	I.D. No.	Institution
Fraser, Bill (+4)	BP-013-O	Montana State University
Vernet, Maria (+4)	BP-016-O	Scripps Institute of Oceanography
Martinson, Doug (+1)	BP-021-O	Lamont-Doherty Earth Observatory

Quetin, Langdon (+7) and Robin Ross	BP-028-O	University of California, Santa Barbara
Smith, Ray (+3)	BP-032-O	ICISS, University of California, Santa Barbara
Karl, Dave (+7)	BP-046-O	University of Hawaii, Honolulu
Bengtson, John (+6)	BE-198-A	National Marine Mammal Lab
Torres, Joseph (+4)	BE-198-B	University of Southern Florida
Jacobs, Stan (+4)	BE-198-C	Lamont-Doherty Earth Observatory
Quetin, Langdon (+4) and Robin Ross	BE-198-D	University of California, Santa Barbara
Castellini, Michael (+2)	BE-199-O	University of Alaska, Fairbanks
Stewart, Brent (+1)	BE-229-O	Hubbs-Sea World Research Institute
Yochem, Pamela (+1)	BE-230-O	Hubbs-Sea World Research Institute
Siniff, Donald, (+4)	BE-309-O	University of Minnesota

Geology & Geophysics

Principal Investigator	I.D. No.	Institution
Klinkhammer, Gary(+23)	GO-060-O	Oregon State University
Cande, Steve (+3)	GO-071-O	Scripps Institute of Oceanography
Domack, Eugene (+6)	GO-072-O	Hamilton College
Wiens, Doug (+2)	GO-097-O	Washington University, Missouri
Dorman, LeRoy (+4)	GO-135-O	Scripps Institute of Oceanography

R/V LAURENCE M. GOULD

The R/V LAURENCE M. GOULD made 13 science cruises and passenger transports to the Antarctic Peninsula during the period of 30 March 1999 through 31 March 2000.

Cruise LMG99-3

21 March 1999 – 20 April 1999: *Multi-disciplinary study of Antarctic fishes, phytoplankton.*

BO-036-O (Sidell) BO-037-O (Detrich) OO-124-O (Visbeck) BO-300-O
(D. Anderson)

Cruise LMG99-4 and LMG99-5

27 April 1999 – 02 July 1999: *Continuation of LMG99-3.*

BO-036-O (Sidell) BO-037-O (Detrich)

Cruise LMG99-6

09 July 1999 – 30 July 1999: *Palmer Station Support Cruise.*

Cruise LMG99-7

01 August 1999 – 10 September 1999: *Transit to Talcahuano, Chile--Maintenance Period—Return transit to Punta Arenas, Chile. Acoustic Doppler Current Profiler (ADCP) installed during this time.*

Cruise LMG99-8

14 September 1999 – 28 September 1999: *Palmer Station Support and ADCP shakedown cruise.*

OO-315-O (Chereskin)

Cruise LMG99-8A

28 September 1999 – 09 October 1999: *Open Period—UNOLS Vessel Science Inspection.*

Cruise LMG99-8B

09 October 1999 – 21 October 1999: *Palmer Station Turnover and Copacabana Field Camp Opening.*

Cruise LMG99-9

25 October 1999 – 15 November 1999: *Ongoing time-series study of the water column and benthic community in and around the Deception Island caldera region of Antarctica. Open Cape Shirreff Field Camp.*

BO-050-O (K. Smith)

Cruise LMG99-10

20 November 1999 – 12 December 1999: *Study of the disposition and fate of bloom material along the West Antarctic Shelf (BO-303-O, BO-313-O). In addition, mooring recovery operations were conducted near Palmer Station and Victor Hugo Island as part of an ongoing microbiology and carbon flux study (BO-046-O).*

BP-046-O (Karl) BO-303-O (C. Smith) BO-313-O (DeMaster)

Cruise LMG00-1

17 December 1999 – 01 February 2000: *Ongoing LTER study of the effects of sea-ice dynamics on biology. This summer cruise also included a brief call at the Cape Shirreff Field Camp.*

BP-013-O (Fraser) BP-016-O (Vernet) BP-021-O (Martinson) BP-028-O (Quetin) BP-032-O (Smith) BP-046-O (Karl)

Cruise LMG00-2

05 February 2000 – 26 February 2000: *Ongoing time-series study of the water column and benthic community in and around the Deception Island caldera region of Antarctica. Copacabana Field Camp Construction materials were delivered during this cruise as well.*

BO-050-O (K. Smith)

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

Ocean and Climate

Visbeck, Martin (+4)	OO-124-O	Lamont-Doherty Earth Observatory
Chereskin, Teri (+2)	OO-315-O	University of Hawaii

Biology & Medical Research

Sidell, Bruce (+4)	BO-036-O	University of Maine
Detrich, William (+5)	BO-037-O	Northeastern University
Karl, David (+6)	BP-046-O	University of Hawaii
Smith, Ken (+16)	BO-050-O	Scripps Institute of Oceanography
Anderson, Donald (+2)	BO-300-O	Woods Hole Oceanographic Institution
Smith, Craig (+6)	BO-303-O	University of Hawaii

R/V YUZHMOREGEOLOGIYA

Information on cruises conducted by the R/V YUZHMOREGEOLOGIYA on behalf of NOAA's Antarctic Marine Living Resources field program is not available at this time. The "AMLR 1999/200 Field Season Report" will be available later in the fall. Contact the following address for a copy of the printed report:

Southwest Fisheries Service Center
National Marine Fisheries Service
National Oceanic & Atmospheric Administration
P.O. Box 271
La Jolla, CA 92038

XVI. Visiting Expeditions

Section XVI of the Modifications of the United States Antarctic Activities Planned for 1999-2000 provides information on expeditions visiting U.S. stations during the 1999-2000 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>
20 Jan. 2000	4 hrs.	134	M/V KAPITAN KHLEBNIKOV	Tourist visit
12 Feb. 2000	6 hrs.	489	M/V MARCO POLO	Tourist visit
15 Feb. 2000	3 hrs.	60	M/V AKADEMIK SHOKALSKIY	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>
23 Nov. 1999	4 hours	French Skier	Adventure Network International - Cessna GSA	French Skier Drop-off.

<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 Nov. 1999	6 days	1 Pilot	Adventure Network International - Cessna GSA	Cessna Pilot remains on station after breakdown of plane
30 Nov. 1999	6 hours	8 Tourists and 2 Crew	Adventure Network International - Twin Otter	Tourist Visit
14 Dec. 1999	5 days	3 Crew, 5 Tourists, 2 Staff	Adventure Network International – DC-3 200 AN	Tourist visit
16 Dec. 1999	1 hour	2 Skiers	Operation Chill-Out	Tourist visit – Through Skiers
21 Dec. 1999	9 days	2 Skiers	Operation Chill-Out	Tourist visit – Skiers re- turned after fuel contam- inated food
30 Dec. 1999	1 hour	2 Crew	Adventure Network International – Twin Otter	Pick-up of Operation Chill-Out skiers
31 Dec. 1999	13 hours	2 Crew, 10 Tourists	Adventure Network International – Twin Otter	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>
31 Dec. 1999	4 days	4 Skiers	Singaporean Expedition	Tourist Visit
31 Dec. 1999	5 days	8 Skiers	“Last Degree” Skiers	Tourist Visit
4 Jan. 2000	1 ½ hours	2 Crew, 1 Staff	Adventure Network International- Twin Otter	Pick up Singaporeans
4 Jan. 2000	Less than one day	9 Tourists	International Expedition Skiers	Tourist Visit
4 Jan. 2000	1 hour	2 Crew	Adventure Network International – Twin Otter	Pick up International Expedition Skiers
5 Jan. 2000	6 hours	2 Crew, 1 Staff (Cessna Pilot)	Adventure Network International – Twin Otter	“Last Degree” Skiers are picked up, Cessna pilot is dropped off with replacement prop to repair broken plane
6 Jan. 2000	24 hours	1 Crew (Cessna Pilot)	Adventure Network International- Cessna	Cessna pilot departs station after repair of plane

<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>
6 Jan. 2000	2 ½ days	7 Visitors	Argentineans from Belgrano II Station - snowmobiles	Government Expedition
8 Jan. 2000	20 hours	14 Tourists	Russian organized "International Millennium Expedition" – Four Snow Buggies	Tourist visit
12 Jan. 2000	2 hours	2 Crew, 5 Tourists, 2 Staff	Adventure Network International – Twin Otter	Tourist visit
16 Jan. 2000	48 hours	3 Crew, 9 Tourists, 2 Staff	Adventure Network International – DC-3 200 AN	Tourist visit including two Astronauts

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>
9 Dec 99	6.5 hrs.	24	RRS JAMES CLARK ROSS	Passenger transfer to Rothera Base via Twin Otter Aircraft
13 Dec 99	3 hrs.	53	M/V EXPLORER	Tourist visit
28 Dec	8 hrs.	9	S/Y SARAH	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>
31 Dec 99	4.5 hrs.	114	M/V WORLD DISCOVERER	Tourist visit
01 Jan 2000	4 hrs.	11	S/Y CROIX SAINT PAUL II	Tourist visit
10 Jan 2000	4.5 hrs.	147	M/V WORLD DISCOVERER	Tourist visit
14 Jan 2000	3.25	63	M/V MULTANOVSKIY	Tourist visit
20 Jan 2000	3 hrs.	118	M/V EXPLORER	Tourist visit
31 Jan 2000	4 hrs.	9	S/Y SARAH	Tourist visit
31 Jan 2000	5 hrs	35	ATF67 LAUTARO	Inter-program visit
2 Feb 2000	3.5	119	M/V CLIPPER ADVENTURER	Tourist visit
4 Feb 2000	5 hrs.	11	S/Y CROIX SAINT PAUL II	Tourist visit
4 Feb 2000	4 hrs.	123	M/V CALEDONIAN STAR	Tourist visit
7 Feb 2000	5 hrs.	5	S/Y ALDERMAN	Tourist visit
13 Feb 2000	14 hrs.	7	ARS SUBOFICIAL CASTILLO	Bi-monthly patrol visit
14 Feb 2000	4 hrs.	138	M/V WORLD DISCOVERER	Tourist visit
15 Feb 2000	3.5 hrs.	90	M/V CALEDONIAN STAR	Tourist visit
17 Feb 2000	4 hrs.	99	M/V EXPLORER	Tourist visit
19 Feb 2000	3.3	90	M/V CALEDONIAN STAR	Tourist visit