

# United States Antarctic Activities 2004-2005

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*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 2004-2005, supplements Planned Activities for July 2004 through June 2005 published elsewhere on this site.*



**National Science Foundation  
Arlington, Virginia 22230  
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## **Introduction**

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

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

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*Section I of the Modifications of Activities Planned for 2004-2005  
lists any changes to ship and aircraft usage planned for this time  
period.*

## **Ships**

The US Coast Guard Icebreaker *Polar Star* arrived McMurdo this season to support cutting and clearing of the channel due to extremely heavy ice conditions in the Ross Island area. The Resupply Vessel *American Tern* arrived McMurdo on February 03, and completed vessel operations on February 08. The *American Tern* sailed on February 09 for Port Lyttleton, NZ.

### **R/V Knorr**

The Research Vessel *Knorr* is a United States Navy-owned ship operated by the Woods Hole Oceanographic Institution (WHOI) for the ocean research community. Launched in 1968, delivered to WHOI in 1970 and completely overhauled in 1991, *Knorr* conducts worldwide oceanographic research in biology, chemistry, geology and geophysics, physical oceanography, and ocean engineering. It is equipped with sophisticated navigation and communication systems and can accommodate a wide variety of scientific projects. The *Knorr* is of United States Registry and an ABS inspected vessel with a gross registered tonnage of 2,518, length of 85 meters, draft of 5 meters and a beam of 14 meters. This vessel has 3,000 shaft horsepower driving two Lips diesel-electric azimuthing stern thrusters and a Lips retractable azimuthing bow thruster. The vessel is a multidisciplinary research platform with a crew of 22 and accommodations for 34 scientists. It is designed for year-round operations with the capability to handle equatorial to polar region science programs.

Ship's Master: Captain Arthur Colburn

## **Research Capabilities**

The R/V Knorr has 2,756 square feet of laboratory space and 945 square feet of science storage to handle a designed science load of 170 tons of scientific equipment. The vessel has (2) Northstar 941XD GPS with differential capability, (2) Trimble Tasman P(Y) P-Code GPS, Northstar WAAS GPS and Furuno GP-90D WAAS/dGPS. The vessel also has a Kongsberg SDP10 Dynamic positioning system. Scientific instrumentations such as a RDI 75kHz Vessel-Mounted Acoustic Doppler Current Profiler, Knudsen 320B/R echo sounder with digital data logging and EPC graphic recorder, IMET meteorological sensor system, Seabeam 2100 multibeam swath bathymetry system, Terascan satellite imaging system, INMARSAT, Iridium and HighSeasNet data and internet communication are some of the scientific instrumentation aboard for researchers. A Northern Line trawl winch, twin Markey Desh-5 winches, three cranes and a starboard hydroboom are available for deploying scientific equipment over the side. The main working decks provide 3,640 square feet of outside working space with the capacity to handle up to six, twenty-foot laboratory vans.

## **Scientific Program in the Antarctic Treaty Area**

### **Intended Tracks and Schedule**

The R/V Knorr will be operating in the Southern Ocean and mid latitudes of the Southern Pacific Ocean during the 2005 and 2006 operational period of the AAIW program. Ports of Call include Punta Arenas and Puerto Montt, Chile. The R/V Knorr will operate in the Northern Pacific in the interim between the 2005 and 2006 program. Additional information on the cruise plan, tracks and stations can be found online at: <http://www-pord.ucsd.edu/~lalley/aaiw/>

## **Aircraft**

During Winfly (August) the USAP used 4 C-17 missions to move people and cargo between Christchurch and McMurdo. The USAF C-141 completed 14 missions and the C-17 completed 21 missions between Christchurch and McMurdo during October and November. The USAF C-141 returned to McMurdo completing 11 missions during



January and February, and the USAF C-17 returned to McMurdo completing 11 missions during February. The Royal New Zealand Air Force completed 11 missions between Christchurch and McMurdo during November and December.

## II. Expedition Dates

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*Section II of the Modifications of Activities Planned for 2004-2005  
lists the actual dates of significant events occurring during this time  
period.*

### **Significant Dates of Expeditions**

<u>Date</u>	<u>Activity</u>
15 Apr 04	NBP04-03
16 Apr 04	LMG04-04
14 May 04	LMG04-05
17 May 04	NBP04-04
30 May 04	LMG04-06
12 Jun 04	LMG04-07
30 Jun 04	LMG04-08
22 Jul 04	NBP04-05
27 Jul 04	NBP04-06
19 Aug 04	LMG04-10
03 Aug 04	Palmer Station annual relief
20 Aug 04	Winfly Begins
30 Aug 04	NBP04-06AA
28 Sep 04	LMG04-11
04 Oct 04	NBP04-07
05 Oct 04	First C-17 mission to McMurdo Station during Ice Runway period McMurdo Station commenced summer operations (1 of 21)
07 Oct 04	Marble Point opens
09 Oct 04	First C-141 mission of the season to McMurdo Station (1 of 14)
12 Oct 04	NBP04-08
12 Oct 04	New Harbor opens
13 Oct 04	Cape Crozier Camp opens

<u>Date</u>	<u>Activity</u>
14 Oct 04	Black Island opens
14 Oct 04	Lake Fryxell Camp opens
16 Oct 04	Lake Hoare Camp opens
17 Oct 04	LMG04-12
17 Oct 04	F6 Camp opens
21 Oct 04	Four (4) 109 <sup>th</sup> AW LC-130's arrive McMurdo Station to start on-continent missions
21 Oct 04	Lake Bonney Camp opens
21 Oct 04	Odell Glacier Camp opens
21 Oct 04	Copacabana Field Station opens
23 Oct 04	South Pole Station begins summer operations
25 Oct 04	One additional LC-130 aircraft arrive McMurdo Station
27 Oct 04	Siple Dome Camp opens
28 Oct 04	Byrd Camp opens
6 Nov 04	LMG04-13A
10 Nov 04	Cape Shirreff Field Station opens
12 Nov 04	Petermann Island Field Camp opens
13 Nov 04	Cape Royds Camp opens
16 Nov 04	Lower Erebus Hut camp opens
16 Nov 04	C-130 flights to McMurdo Station, operated by the Royal New Zealand Air Force, commenced (1 of 11)
18 Nov 04	Pine Island Camp opens
19 Nov 04	Thwaites Glacier Camp opens
23 Nov 04	LMG04-14
11 Dec 04	Transfer flight operations from Sea Ice Runway to Williams field Skiway and Pegasus Blue Ice Runway
15 Dec 04	Beardmore Camp opens
17 Dec 04	NBP04-09
29 Dec 04	LMG05-01
11 Jan 05	First C-141 mission to McMurdo Station (1 of 12)
24 Jan 05	Beardmore Glacier camp closes
25 Jan 05	Refueling Tanker <i>USNS Paul Buck</i> arrives at McMurdo
27 Jan 05	NBP05-01
27 Jan 05	Cape Royds Camp closes

<u>Date</u>	<u>Activity</u>
27 Jan 05	Pine Island Camp closes
29 Jan 05	Lower Erebus Hut Camp closes
31 Jan 05	F6 Camp closes
31 Jan 05	Lake Fryxell Camp closes
02 Feb 05	Cape Crozier Camp closes
03 Feb 05	<i>M/V American Tern</i> arrives at McMurdo Station ice pier, cargo offload operation commence
03 Feb 05	Lake Bonney Camp closes
05 Feb 05	Lake Hoare Camp closes
06 Feb 05	Siple Dome Camp closes
07 Feb 05	Odell Glacier camp closes
07 Feb 05	New Harbor camp closes
08 Feb 05	Byrd camp closes
09 Feb 05	<i>M/V American Tern</i> Departs McMurdo Station ice pier, cargo operations completed
09 Feb 05	Thwaites Glacier Camp closes
10 Feb 05	Marble Point closes
11 Feb 05	LMG05-02
11 Feb 05	Black Island closes
15 Feb 05	Winter operations commence at South Pole Station
16 Feb 05	Petermann Island Field Camp closes
17 Feb 05	109th AW departs McMurdo Station
22 Feb 05	Winter operations commence at McMurdo Station
24 Feb 05	NBP05-02
11 Mar 05	Cape Shirreff Field Station closes
12 Mar 05	Copacabana Field Station closes
15 Mar 05	LMG05-03

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

## III. Stations

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*Section III of the Modifications of Activities Planned for 2004-2005 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  
WINFLY: 20 August 2004

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

Location: 90° 00'S Latitude  
Annual Relief: 23 October 2004

#### **Palmer Station**

Location: Anvers Island near Bonaparte Point  
64° 46'S Latitude  
64° 05'W Longitude  
Annual Relief: 03 August 2004

## **Austral Summer Camps**

### **Siple Dome Camp**

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

Open: 27 October 2004

Close: 06 February 2005

### **Byrd Camp**

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

Open: 28 October 2004

Close: 08 February 2005

### **Pine Island Camp**

Location: 77° 34.184'S Latitude  
95° 55.626'W Longitude

Open: 18 November 2004

Close: 27 January 2005

### **Thwaites Glacier Camp**

Location: 78° 30'S Latitude  
118° 30'W Longitude

Open: 19 November 2004

Close: 09 February 2005

### **Odell Glacier Camp**

Location: 76°43'S Latitude  
159°54'E Longitude  
Open: 21 October 2004  
Close: 07 February 2005

### **Lake Bonney Camp**

Location: 77°42'S Latitude  
162°27'E Longitude  
Open: 21 October 2004  
Close: 03 February 2005

### **Lake Hoare Camp**

Location: 76°38'S Latitude  
162°57'E Longitude  
Open: 16 October 2004  
Close: 05 February 2005

### **Lake Fryxell Camp**

Location: 77°36'S Latitude  
163°07'E Longitude  
Open: 14 October 2004  
Close: 31 January 2005

### **F6 Camp**

Location: 77°21'S Latitude  
163°09'E Longitude  
Open: 17 October 2004  
Close: 31 January 2005

### **New Harbor Camp**

Location: 77°34'S Latitude  
163°31'E Longitude  
Open: 12 October 2004  
Close: 07 February 2005

### **Marble Point Camp**

Location: 77°25'S Latitude  
163°41'S Longitude  
Open: 07 October 2004  
Close: 10 February 2005

### **Black Island Camp**

Location: 78°08'S Latitude  
166°09'E Longitude  
Open: 14 November 2004  
Close: 11 February 2005



### **Lower Erebus Hut Camp**

Location: 77°30'S Latitude  
167°10'E Longitude

Open: 16 November 2004

Close: 29 January 2005

### **Cape Crozier Camp**

Location: 77°30'S Latitude  
169°40'E Longitude

Open: 13 October 2004

Close: 02 February 2005

### **Cape Royds Camp**

Location: 77°33'S Latitude  
166°08'E Longitude

Open: 13 November 2004

Close: 27 January 2005

### **Copacabana, King George Island**

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

Open: 21 October 2004

Close: 12 March 2005

### **Cape Shirreff Field Station, Livingston Island**

Location: 62° 28'S Latitude  
60° 47'W Longitude  
Open: 10 November 2004  
Close: 11 March 2005

### **Petermann Island**

Location: 63° 57'S Latitude  
57° 29'W Longitude  
Open: 12 October 2004  
Close: 16 March 2005

## IV. Personnel

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*Section IV of the Modifications of Activities Planned for 2004-2005 lists actual dates senior management personnel were on-station in Antarctica during this time period.*

### Senior United States Representatives

DATES	NAME
03 Dec 04 – 11 Dec 04 and 11 Jan 05 – 20 Jan 05	Scott Borg
30 Jan 05 – 05 Feb 05	Erick Chiang

### NSF Representatives in Antarctica

\* Denotes Science Representative

DATES	NAME	LOCATION
05 Oct 04 – 17 Dec 04	David Bresnahan	McMurdo
17 Dec 04 – 16 Feb 05	Brian Stone	McMurdo
20 Oct 04 – 06 Nov 04	Bernard Lettau *	McMurdo
05 Nov 04 – 16 Dec 04	Jerry Marty	South Pole
10 Nov 04 – 03 Dec 04	Polly Penhale *	McMurdo
03 Dec 04 – 11 Jan 05	Thomas Wagner *	McMurdo
12 Dec 04 – 23 Jan 05	Vladimir Papitashvili *	South Pole
11 Jan 05 – 04 Feb 05	Julie Palais *	McMurdo

### Officers in Charge of Bases

Station managers for the 2004-2005 season were:

### **McMurdo Station**

Foster Scott	20 Aug 04 – 12 Feb 05
Terry Melton	20 Aug 04 – 18 Feb 05
William Coughran (winter-over)	18 Feb 05 – 20 Aug 05
Eric Hobday (winter over)	12 Feb 05 – TBD

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

Bettie Grant	23 Oct 04 – 15 Feb 05
Bill Henricksen (winter over)	15 Feb 05 - TBD

### **Palmer Station**

Joseph Pettit	03 Oct 04 – 17 Dec 04
Dr. William Silva	17 Dec 04 – 02 Jan 05
Robert Farrell	02 Jan 05 – 24 Mar 05
James Slaughter (winter over)	24 Mar – TBD

## **Numbers, Occupations and Specialization 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)

## V. Armaments

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*Section V of the Modifications of Activities Planned for 2004-2005  
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

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*No modifications of field research projects are presented here, but  
original plans and project descriptions are available in Appendix II  
of this document.*

## VII. Scientific Equipment

*Section VII 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>LMG</u> <sup>1</sup>	<u>NBP</u> <sup>2</sup>	<u>AGO</u> <sup>3</sup>
<b>Astrophysics Aeronomy</b>						
Antenna, VLF Loop	X					
Camera, All-Sky	X					
Chromatography, High Performance Liquid System (HPLC)	X					
Leak Detection and Vacuum Pump Equipment	X					
Photometer, Auroral	X					
Power Conditioner	X					
<b>Biology</b>						
Centrifuge, Refrigerator				X	X	
Chromatography, Gas, System					X	
Hi-Vacuum System		X				
Ice Maker	X	X				
Ice Maker (dry ice)	X					
Meter, Oxygen		X				
Pump, Vacuum		X				
Thermocycler, PCR					X	

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> <sup>1</sup>	<u>NBP</u> <sup>2</sup>	<u>AGO</u> <sup>3</sup>
<b>Meteorology</b>						
Pressure Indicators	X					
Recorder, Four-Channel	X					
<b>Oceanography/Limnology</b>						
Hood Laminar Flow, Portable				X		
Garage/Clean Laboratory Van				X		
<b>Other</b>						
Cryogen Vaporizer		X				



**DELETIONS**

	<u>McMurdo</u>	<u>SPole</u>	<u>Palmer</u>	<u>LMG</u> <sup>1</sup>	<u>NBP</u> <sup>2</sup>	<u>AGO</u> <sup>3</sup>
<b>Astrophysics Aeronomy</b>						
Transport, Liquid Nitrogen		X				
<b>Biology</b>						
Centrifuge, Refrigerated Speed Vac				X	X	
Dry Ice Maker				X		
Dry Shippers, Liquid Nitrogen		X				
Ice Maker (dry ice)					X	
Spectrophotofluorometer				X		
Thermocycler, PCR				X		

1 = R/V Laurence M. Gould

2 = R/V Nathaniel B. Palmer

3 = Automated Geophysical Observatory

## VIII. Transportation and Comms

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*Section VIII of Modifications of Activities Planned for 2004-2005  
details additions and deletions to the number and type of  
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**

Front-end loader, Bucket & Forklift	3
Trencher	1

##### **Add**

Forklift, Warehouse	1
Truck, Fire, Aircraft Rescue	2

#### Amundsen-Scott South Pole Station

##### **Add**

Personnel Carrier (Tracked)	1
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## **Description of Communications Facilities**

### **McMurdo Station**

No significant changes are noted.

### **South Pole Station**

No significant changes are noted.

### **Palmer Station**

No significant changes are noted.

## **Description of Airfields**

### **McMurdo Station**

#### ***Crash Equipment / Fire Equipment***

#### ***Add***

Two Crash Rescue, Mattrack-equipped, Aircraft Rescue and Fire Fighting (ARFF) trucks, 500 pounds dry chemical, 300 gallons aerosol foam (each).

## IX. Assistance Facilities

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*Section IX of the Modifications of Activities Planned for 2004-2005  
details changes in the facilities available for rendering assistance in  
Antarctica including medical, transport services and emergency shelters.*

### **McMurdo Station**

No changes to 04-05 plans reported for McMurdo Station.

### **South Pole Station**

No changes to 04-05 plans reported for South Pole Station.

### **Palmer Station**

No changes to 04-05 plans reported for Palmer Station.

## X. Tourism

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

### Abercrombie & Kent International, Inc.

Atholl Shipping Corporation and Abercrombie & Kent International, Inc. of Oak Brook, Illinois, conducted a total of ten cruises to the Antarctic Peninsula during the 2004-2005 season using the *M/S Explorer II*. Given below, for each cruise, is the port of origin, and sites visited (with dates)

#### M/S EXPLORER

##### **Cruise EXP16NOV2004**

November 2004

94 PAX; 145 STAFF; 162 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Montevideo, URUGUAY		16 NOV 2004
At sea		17-20 NOV 2004
Point Wild, Elephant Island		21 NOV 2004
Esperanza Station, Hope Bay	99	22 NOV 2004
James Ross Island	89*	23 NOV 2004
Vortex Island	106	23 NOV 2004
Paulet Island	114	24 NOV 2004
Brown Bluff, Tabarin Peninsula	87	24 NOV 2004

Hannah Point, Livingston Island	84	25 NOV 2004
Whalers Bay, Deception Island	108	25 NOV 2004
At sea		26-27 NOV 2004
Ushuaia, ARGENTINA		28 NOV 2004

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

\* = zodiac cruising only

***Cruise EXP28NOV 2004***

November/December 2004

207 PAX; 13 STAFF; 159 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 NOV 2004
At sea		29-30 NOV 2004
Jougla Point	219	01 DEC 2004
Goudier Island	200	01 DEC 2004
Almirante Brown Station	208	01 DEC 2004
Paradise Bay	195*	01 DEC 2004
Half Moon Island	215	02 DEC 2004
Point Wild, Elephant Island	200*	02 DEC 2004
Vortex Island	208*	03 DEC 2004
At sea		04-06 DEC 2004
South Georgia		07-08 DEC 2004
At Sea		09-10 DEC 2004
Port Stanley, Falkland Islands		11 DEC 2004
At Sea		12 DEC 2004
Ushuaia, ARGENTINA		13 DEC 2004

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

\* = zodiac cruising only

**Cruise EXP13DEC2004**

December 2004

146 PAX; 14 STAFF; 157 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		13 DEC 2004
At sea		14-15 DEC 2004
Weddell Sea		16 DEC 2004
Devil Island	163	17 DEC 2004
Brown Bluff, Tabarin Peninsula	154	17 DEC 2004
Half Moon Island	148	18 DEC 2004
Whalers Bay, Deception Island	142	18 DEC 2004
Goudier Island	140	19 DEC 2004
Almirante Brown Station	161	20 DEC 2004
Paradise Bay	161*	20 DEC 2004
Cuerville Island	159	20 DEC 2004
At sea		21-22 DEC 2004
Ushuaia, ARGENTINA		23 DEC 2004

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

\* = zodiac cruising only

**Cruise EXP23DEC2004**

December/January 2005

131 PAX; 14 STAFF; 157 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		23 DEC 2004
At sea		24-25 DEC 2004
Vortex Island	139*	26 DEC 2004
Devil Island	137	27 DEC 2004
Enterprise Island	155*	28 DEC 2004
Neko Harbor, Andvord Bay	135	28 DEC 2004
Paradise Bay	67	29 DEC 2004
Damoy Point, Wiencke Island	132	29 DEC 2004
Goudier Island	123	29 DEC 2004

Cuerville Island	30 DEC 2004
At sea	31 DEC – 01 JAN 2005
Port Stanley, Falkland Island	02 JAN 2005
West Point/New Island, Falkland Islands	03 JAN 2005
At sea	04 JAN 2005
Ushuaia, ARGENTINA	05 JAN 2005

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

\* = zodiac cruising only

***Cruise EXP05Jan2005***

January 2005

206 PAX; 14 STAFF; 159 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 JAN 2005
At sea		06-07 JAN 2005
Presidente Frei Station, King George Island	221	08 JAN 2005
Brown Bluff, Tabarin Peninsula	215*	08 JAN 2005
Hope Bay	198	09 JAN 2005
Half Moon Island	197	09 JAN 2005
Whalers Bay, Deception Island	208	10 JAN 2005
Neko Harbor, Andvord Bay	212	10 JAN 2005
Almirante Brown Station,	212	10 JAN 2005
Paradise Bay	182*	11 JAN 2005
Goudier Island	182	11 JAN 2005
Bruce Island	145*	11 JAN 2005
Cuerville Island	206	12 JAN 2005
Jougla Point	195	12 JAN 2005
At sea		13-14 JAN 2005
Ushuaia, ARGENTINA		15 JAN 2005

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

\* = zodiac cruising only



**Cruise EXP15JAN2005**

January 2005

165 PAX; 14 STAFF; 160 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		15 JAN 2005
At sea		16-18 JAN 2005
Point Wild, Elephant Island	190*	19 JAN 2005
Brown Bluff, Tabarin Peninsula	189	20 JAN 2005
Hope Bay	195	20 JAN 2005
Yankee Harbor, Greenwich Island	178	21 JAN 2005
Neko Harbor, Andvord Bay	188	22 JAN 2005
Neumayer Channel	339*	22 JAN 2005
Whalers Bay, Deception Island	179	23 JAN 2005
Half Moon Island	147	23 JAN 2005
At sea		24-25 JAN 2005
Ushuaia, ARGENTINA		26 JAN 2005

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

\* = zodiac cruising only

**Cruise EXP26JAN2005**

January 2005

187 PAX; 16 STAFF; 156 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		26 JAN 2005
At sea		27 JAN 2005
Port Stanley, Falkland Islands		28 JAN 2005
At sea		29-30 JAN 2005
Brown Bluff, Tabarin Peninsula	218	31 JAN 2005
Esperanza Station	207	31 JAN 2005
Half Moon Island	198	01 FEB 2005
Yankee Harbor, Greenwich Island	172	01 FEB 2005
Neko Harbor, Andvord Bay	216	02 FEB 2005
Cuerverville Island	166	02 FEB 2005

Whalers Bay, Deception Island	194	03 FEB 2005
At sea		04-05 FEB 2005
Ushuaia, ARGENTINA		06 FEB 2005

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

\* = zodiac cruising only

**Cruise EXP06FEB2005**

February 2005

192 PAX; 14 STAFF; 160 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		06 FEB 2005
At sea		07-08 FEB 2005
Paradise Bay	218*	09 FEB 2005
Neko Harbor, Andvord Bay	231	09 FEB 2005
Goudier Island	227	10 FEB 2005
Borgen Bay	164*	10 FEB 2005
Telefon Bay, Deception Island	184	11 FEB 2005
Devil Island	103*	12 FEB 2005
Crystal Hill, Biscoe Islands	206	12 FEB 2005
Brown Bluff, Tabarin Peninsula	224	13 FEB 2005
At sea		14-15 FEB 2005
Ushuaia, ARGENTINA		16 FEB 2005

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

\* = zodiac cruising only

**Cruise EXP16FEB2005**

February/March 2005

196 PAX; 15 STAFF; 166 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		16 FEB 2005
At sea		17-18 FEB 2005
Paradise Bay	224*	19 FEB 2005

Goudier Island	262	19 FEB 2005
Cuerville Island	248	20 FEB 2005
Neko Harbor, Andvord Bay	240	20 FEB 2005
Pendulum Cove, Deception Island	135	21 FEB 2005
Half Moon Island	240	21 FEB 2005
At sea		22-24 FEB 2005
South Georgia		25-27 FEB 2005
At sea		28 FEB –01 MAR 2005
Port Stanley, Falkland Islands		02 MAR 2005
At sea		03 MAR 2005
Ushuaia, ARGENTINA		04 MAR 2005

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

\* = zodiac cruising only

**Cruise EXP06MAR2005**

March 2005

261 PAX; 14 STAFF; 159 CREW

<b><u>Ports</u></b>	<b><u># PAX <sup>1</sup></u></b>	<b><u>Dates</u></b>
Ushuaia, ARGENTINA		06 MAR 2005
At sea		07-08 MAR 2005
Almirante Brown Station	281	09 MAR 2005
Half Moon Island	253	10 MAR 2005
Jubany Station	217	11 MAR 2005
Point Wild, Elephant Island	200*	12 MAR 2005
At sea		13 MAR 2005
Falkland Island		14-15 MAR 2005
At sea		16-17 MAR 2005
Montevideo, Uruguay		18 MAR 2005
Buenos Aires, Argentina		19 MAR 2005
At sea		20-22 MAR 2005
Rio de Janeiro, BRAZIL		23 MAR 2005

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

\* = zodiac cruising only

## Quark Expeditions

Quark Expeditions of Darien, Connecticut, conducted 47 cruises to the Antarctic during 2004-2005 season using three chartered vessels. The *Professor Molchanov* conducted 11 cruises. The *Professor Multanovskiy* conducted 11 cruises, the *Lyubov Orlova* conducted 12, the *Akademik Shokalskiy* conducted 8 cruises, and the *Kapitan Khlebnikov* conducted five cruises. Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

### PROFESSOR MOLCHANOV

#### **Cruise MOL11NOV2004**

November 2004

45 PAX; 5 STAFF; 23 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Puerto Madryn, ARGENTINA		11 NOV 2004
At sea		12-13 NOV 2004
Falkland Islands		14-15 NOV 2004
At sea		16 NOV 2004
South Georgia		17-20 NOV 2004
At sea		21 NOV 2004
South Orkneys		22 NOV 2004
Cape Lookout, Elephant Island	49	23 NOV 2004
Brown Bluff, Tabarin Peninsula	53	24 NOV 2004
Devil Island	51	24 NOV 2004
Paulet Island	48	25 NOV 2004
Hannah Point, Livingston Island	49	26 NOV 2004
Aitcho Islands	55	26 NOV 2004
Whalers Bay, Deception Island	50	26 NOV 2004
At sea		27-28 NOV 2004
Ushuaia, ARGENTINA		29 NOV 2004

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

\* = zodiac cruising only

**Cruise MOL29NOV2004**

November/December 2004  
46 PAX; 5 STAFF; 23 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		29 NOV 2004
At seas		30 NOV – 01 DEC 2004
Paulet Island	53	02 DEC 2004
Brown Bluff, Tabarin Peninsula	52	02 DEC 2004
Hannah Point, Livingston Island	50	03 DEC 2004
Whalers Bay, Deception Island	53	03 DEC 2004
Orne Islands	51	04 DEC 2004
Goudier Island	53	04 DEC 2004
Jougla Point	41	04 DEC 2004
Skontorp Cove, Paradise bay	54*	05 DEC 2004
Almirante Brown Station	43	05 DEC 2004
Neko Harbor, Andvord Bay	56	05 DEC 2004
Lemaire Channel	74*	05 DEC 2004
Danco Island	50	06 DEC 2004
Melchior Islands	74*	06 DEC 2004
At sea		07-08 DEC 2004
Ushuaia, ARGENTINA		09 DEC 2004

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

\* = zodiac cruising only

**Cruise MOL09DEC2004**

December 2004  
30 PAX; 6 STAFF; 23 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		09 DEC 2004
At sea		10-11 DEC 2004
Cuerverville Island	38	12 DEC 2004
Danco Island	40	12 DEC 2004
Dallmann Bay	56*	12 DEC 2004

Almirante Brown Station	35	13 DEC 2004
Neko Harbor, Andvord Bay	38	13 DEC 2004
Paradise Bay	40*	13 DEC 2004
Whalers Bay, Deception Island	37	14 DEC 2004
Hannah Point, Livingston Island	38	14 DEC 2004
South Bay, Livingston Island	36	15 DEC 2004
At sea		16-17 DEC 2004
Ushuaia, ARGENTINA		18 DEC 2004

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

\* = zodiac cruising only

***Cruise MOL19DEC2004***

December 2004

38 PAX; 6 STAFF; 23 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		18 DEC 2004
At sea		19 DEC 2004
Half Moon Island	49	20 DEC 2004
Hannah Point, Livingston Island	46	21 DEC 2004
Whalers Bay, Deception Island	46	21 DEC 2004
Pendulum Cove, Deception Island	67*	21 DEC 2004
Cuerverville Island	89	22 DEC 2004
Skontorp Cove, Paradise Bay	46*	22 DEC 2004
Almirante Brown Station	46	22 DEC 2004
Goudier Island	45	23 DEC 2004
Lemaire Channel	67	23 DEC 2004
Neko Harbor, Andvord Bay	45	24 DEC 2004
Danco Island	45	24 DEC 2004
At sea		25-26 DEC 2004
Ushuaia, ARGENTINA		27 DEC 2004

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

\* = zodiac cruising only

**Cruise MOL27DEC2004**

December/January 2005  
45 PAX; 5 STAFF; 23 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		27 DEC 2004
At sea		28 DEC 2004
Aitcho Island	50	29 DEC 2004
Paulet Island	50	30 DEC 2004
Brown Bluff, Tabarin Peninsula	48	30 DEC 2004
Whalers Bay, Deception Island	50	31 DEC 2004
Goudier Island	50	01 JAN 2005
Pleneau Island	51*	01 JAN 2005
Danco Island	46	02 JAN 2005
At sea		03-04 JAN 2005
Ushuaia, ARGENTINA		05 JAN 2005

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

\* = zodiac cruising only

**Cruise MOL05JAN2005**

January 2005  
5046 PAX; 85 STAFF; 20 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 JAN 2005
At sea		06 JAN 2005
Falkland Islands		07-08 JAN 2005
At sea		09-10 JAN 2005
South Georgia		11-14 JAN 2005
At sea		15-16 JAN 2005
Point Wild, Elephant Island	54*	17 JAN 2005
Whalers Bay, Deception Island	49	18 JAN 2005
Hannah Point, Livingston Island	52	18 JAN 2005
Jougla Point	47	19 JAN 2005
Goudier Island	48	19 JAN 2005

Lemaire Channel	73*	19 JAN 2005
Neko Harbor, Andvord Bay	52	20 JAN 2005
Melchior Island	51*	20 JAN 2005
At Sea		21-22 JAN 2005
Ushuaia, ARGENTINA		23 JAN 2005

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

\* = zodiac cruising only

**Cruise MOL23JAN2005**

January/February 2005

46 PAX; 8 STAFF; 20 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		23 JAN 2005
At sea		24-25 JAN 2005
Aitcho Islands	49	26 JAN 2005
Half Moon Island	49	26 JAN 2005
Telefon Bay, Deception Island	45	27 JAN 2005
Whalers Bay, Deception Island	48	27 JAN 2005
Neko Harbor, Andvord Bay	48	28 JAN 2005
Paradise Bay	98	28 JAN 2005
Cape Renard, Flanders Bay	48*	29 JAN 2005
Cuerville Island	49	29 JAN 2005
Jougla Point	41	30 JAN 2005
Goudier Island	41	30 JAN 2005
Melchior Islands	43*	30 JAN 2005
At sea		31 JAN – 01 FEB 2005
Ushuaia, ARGENTINA		02 FEB 2005

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

\* = zodiac cruising only



**Cruise MOL02FEB2005**

February 2005

42 PAX; 3 STAFF; 25 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		02 FEB 2005
At sea		03-04 FEB 2005
Paulet Island	45	05 FEB 2005
Brown Bluff, Tabarin Peninsula	45	05 FEB 2005
Half Moon Island	45	06 FEB 2005
Whalers Bay, Deception Island	45	06 FEB 2005
Paradise Bay	48*	07 FEB 2005
Almirante Brown Station	49	07 FEB 2005
Neko Harbor, Andvord Bay	45	07 FEB 2005
Lautaro Island	48*	07 FEB 2005
Lemaire Channel	70*	08 FEB 2005
Jougl Point	56	08 FEB 2005
Goudier Island	46	08 FEB 2005
Petermann Island	46	08 FEB 2005
Enterprise Island	47*	09 FEB 2005
Wilhelmina Bay	70*	09 FEB 2005
Melchior Islands	47*	09 FEB 2005
At sea		10-11 FEB 2005
Ushuaia, ARGENTINA		12 FEB 2005

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

\* = zodiac cruising only

**Cruise MOL12FEB 2005**

February 2005

46 PAX; 6 STAFF; 23 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		12 FEB 2005
At Sea		13-15 FEB 2005
Saddler Point, Wilhelmina Bay	51	16 FEB 2005

Wilhelmina Bay	75*	16 FEB 2005
Cuerville Island	50	16 FEB 2005
Plata Passage	53*	16 FEB 2005
Skontorp Cove	47*	17 FEB 2005
Almirante Brown Station	53	17 FEB 2005
Neko Harbor, Andvord Bay	52	17 FEB 2005
Neumayer Channel	150*	17 FEB 2005
Jougla Point	10	18 FEB 2005
Lemaire Channel	150*	18 FEB 2005
Petermann Island	52	18 FEB 2005
Pleneau Island	50*	18 FEB 2005
Goudier Island	50	19 FEB 2005
Melchior Islands	74*	19 FEB 2005
Orne Islands	43*	19 FEB 2005
At sea		20-21 FEB 2005
Ushuaia, ARGENTINA		22 FEB 2005

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

\* = zodiac cruising only

***Cruise MOL22FEB2005***

February/March 2005

36 PAX; 5 STAFF; 23 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		22 FEB 2005
At sea		23-24 FEB 2005
Snow Hill Island	42	25 FEB 2005
Devil Island	41	25 FEB 2005
Hannah Point, Livingston Island	42	26 FEB 2005
Baily Head, Deception Island	42	26 FEB 2005
Whalers Bay, Deception Island	39	26 FEB 2005
Neko Harbor, Andvord Bay	42	27 FEB 2005
Skontorp Cove	42*	27 FEB 2005
Goudier Island	42	27 FEB 2005
Neumayer Channel	64*	27 FEB 2005

Lemaire Channel	128*	28 FEB 2005
Pleneau Island	41*	28 FEB 2005
Melchior Islands	64*	28 FEB 2005
At sea		01-02 MAR 2005
Ushuaia, ARGENTINA		03 MAR 2005

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

\* = zodiac cruising only

**Cruise MOL03MAR2005**

March 2005

50 PAX; 5 STAFF; 23 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		03 MAR 2005
At sea		04-05 MAR 2005
Skontorp Cove	57*	06 MAR 2005
Almirante Brown Station	57	06 MAR 2005
Lemaire Channel	78*	06 MAR 2005
Goudier Island	57	07 MAR 2005
Jougla Point	44	07 MAR 2005
Neumayer Channel	78*	07 MAR 2005
Neko Harbor, Andvord Bay	62	07 MAR 2005
Orne Islands	57	07 MAR 2005
Whalers Bay, Deception Island	57	08 MAR 2005
Half Moon Island	57	08 MAR 2005
Point Wild, Elephant Island	48	09 MAR 2005
Shingle Cove, Iceberg Bay	57	10 MAR 2005
At sea		11-13 MAR 2005
South Georgia		14-15 MAR 2005
At Sea		16-17 MAR 2005

Falkland Islands	18-19 MAR 2005
At sea	20 MAR 2005
Ushuaia, ARGENTINA	21 MAR 2005

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

\* = zodiac cruising only

## KHLEBNIKOV

### **Cruise KLB06NOV2004**

November 2004

66 PAX; 10 STAFF; 67 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		06 NOV 2004
At sea		07-08 NOV 2004
Snow Hill Island (ice landing)	87	09 NOV 2004
Snow Hill Island Emperor Rookery	76#	09 NOV 2004
Arctowski Station, King George Island	71	10 NOV 2004
Ferraz Station	60	10 NOV 2004
Half Moon Island	65	11 NOV 2004
Whalers Bay, Deception Island	61	11 NOV 2004
Neko Harbor, Andvord Bay	74	12 NOV 2004
Paradise Bay	62*	12 NOV 2004
Goudier Island	57	13 NOV 2004
Cuerville Island	52*	14 NOV 2004
Wilhelmina Bay	143*	14 NOV 2004
At sea		15-16 NOV 2004
Ushuaia, ARGENTINA		17 NOV 2005

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

\* = zodiac cruising only; # = helo landing

**Cruise KLB20NOV2004**  
November/December 2004  
104 PAX; 12 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 NOV 2004
At sea		18 NOV 2004
Port Stanley, Falkland Islands		19-20 NOV 2004
At sea		21-22 NOV 2004
South Georgia		23-24 NOV 2004
South Sandwich Islands		25-26 NOV 2004
At sea		27-29 NOV 2004
Atka Bay Rookery	113#	30 NOV 2004
Neumayer Station	124#	01 DEC 2004
Riser Larsen Ice Shelf	117#	02 DEC 2004
Drescher Inlet	120#	03 DEC 2004
Halley Rookery	141	04 DEC 2004
Halley Station	124#	05 DEC 2004
Stancomb Wills Rookery	109#	06 DEC 2004
Weddell Sea		07-10 DEC 2004
Snow Hill Island	117#	11 DEC 2004
Cockburn Island	119	12 DEC 2004
Paulet Island	125	13 DEC 2004
Brown Bluff, Tabarin Peninsula	99	13 DEC 2004
Baily Head, Deception Island	109	14 DEC 2004
Yankee Harbor, Greenwich Island	110#	14 DEC 2004
At sea		15-16 DEC 2004
Ushuaia, ARGENTINA		17 DEC 2004

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

\* = zodiac cruising only; # = helo landing

**Cruise KLB17DEC2004**  
December 2004 –January 2005  
102 PAX; 12 STAFF; 67 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 DEC 2004
At sea		18 DEC 2004
Hannah Point, Livingston Island	115	19 DEC 2004
Ronge Island	108	20 DEC 2004
Neko Harbor, Andvord Bay	111	20 DEC 2004
Petermann Island	90	21 DEC 2004
At sea		22 DEC 2004
Jenny Island	103	23 DEC 2004
Rothera Station	124	23 DEC 2004
At sea		24-28 DEC 2004
Shephard Island	116#	29 DEC 2004
Siple Island	115#	29 DEC 2004
At sea		30 DEC 2004
Bartlett Bay	111#	31 DEC 2004
Ross Ice Shelf (helo overflight)	99	01 JAN 2005
Cape Royds, Ross Island	114#	02 JAN 2005
Cape Evans, Ross Island	111#	03 JAN 2005
Taylor Valley/Canada Glacier	119	03 JAN 2005
At sea		04 JAN 2005
Iceberg B-15A	104#	05 JAN 2005
Cape Adare	119	06 JAN 2005
At sea		07-10 JAN 2005
Campbell Island		11 JAN 2005
Enderby Island		12 JAN 2005
At sea		13 JAN 2005
Lyttleton, NEW ZEALAND		14 JAN 2005

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

\* = zodiac cruising only; # = helo landing

**Cruise KLB15JAN2005**  
January/February 2005  
98 PAX; 15 STAFF; 66 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Lyttleton, NEW ZEALAND		15 JAN 2005
At sea		16 JAN 2005
Port Ross		17 JAN 2005
Campbell Island		18 JAN 2005
At sea		19-20 JAN 2005
Cape Adare	117	21 JAN 2005
At sea		22 JAN 2005
Taylor Valley/Canada Glacier	108#	23 JAN 2005
Cape Royds, Ross Island	108#	23 JAN 2005
Cape Evans, Ross Island	104#	24 JAN 2005
McMurdo Station, Ross Island	116#	25 JAN 2005
Scott Base, Ross Island	114#	25 JAN 2005
Inexpressible Island	101	26 JAN 2005
Iceberg B-15A	108#	26 JAN 2005
Terra Nova Bay Station	109	27 FEB 2005
Ironside Glacier (helo over flight)	106	27 JAN 2005
Oates Land (helo over flight)	112	28 JAN 2005
At sea		29 JAN 2005
Leningradskaya Station	103#	30 JAN 2005
Balleny Islands	91	31 JAN 2005
At sea		01-02 FEB 2005
Macquarie Island		03-04 FEB 2005
At sea		05-06 FEB 2005
Hobart, TASMANIA		07 FEB 2005

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

\* = zodiac cruising only; # = helo landing

**Cruise KLB15JAN2005**

January/February 2005  
98 PAX; 15 STAFF; 66 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Hobart, TASMANIA		07 FEB 2005
At sea		08-09 FEB 2005
Macquarie Island		10-11 FEB 2005
At sea		12-13 FEB 2005
Cape Adare	100	14 FEB 2005
Terra Nova Bay Station	102	15 FEB 2005
McMurdo Station, Ross Island	100#	16 FEB 2005
Scott Base, Ross Island	99#	16 FEB 2005
Cape Royds, Ross Island	99#	17 FEB 2005
Cape Evans, Ross Island	100	17 FEB 2005
At sea		18-19 FEB 2005
Iceberg B-15A	98#	20 FEB 2005
At sea		21-25 FEB 2005
Campbell Island		26 FEB 2005
Enderby Island		27 FEB 2005
At sea		28 FEB – 01 MAR 2005
Hobart, TASMANIA		01 MAR 2005

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

\* = zodiac cruising only; # = helo landing

**PROFESSOR MULTANOVSKIY**

**Cruise MULT07NOV2004**

November 2004  
36 PAX; 9 STAFF; 23 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Puerto Madryn, ARGENTINA		07 NOV 2004
At sea		08 NOV 2004



Falkland Islands		09-10 NOV 2004
Port Stanley, Falkland Island		11 NOV 2004
At Sea		12 NOV 2004
South Georgia		13-16 NOV 2004
At sea		17 NOV 2004
Laurie Island	43	18 NOV 2004
At sea		29 NOV 2004
Half Moon Island	43	20 NOV 2004
Whalers Bay, Deception Island	46	20 NOV 2004
Cuerville Island	41	21 NOV 2004
Paradise Bay	42*	21 NOV 2004
Goudier Island	33	21 NOV 2004
Petermann Island	40	22 NOV 2004
At sea		23-24 NOV 2004
Ushuaia, ARGENTINA		25 NOV 2004

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

\* = zodiac cruising only

***Cruise MULT27NOV2004***

November/December 2004

49 PAX; 4 STAFF; 27 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Port Stanley, FALKLAND ISLANDS		27 NOV 2004
At sea		28-29 NOV 2004
South Georgia		30 NOV – 03 DEC 2004
At sea		04 DEC 2004
Orcadas Station	55	05 DEC 2004
Point Wild, Elephant Island	55	06 DEC 2004
Half Moon Island	52	07 DEC 2004
Whalers Bay, Deception Island	54	07 DEC 2004
Pendulum Cove, Deception Island	42	07 DEC 2004
Cuerville Island	50	08 DEC 2004
Paradise Bay	55*	08 DEC 2004
Almirante Brown Station	55	09 DEC 2004

Goudier Island	54	08 DEC 2004
Neko Harbor, Andvord Bay	55	09 DEC 2004
At sea		10-11 DEC 2004
Ushuaia, ARGENTINA		12 DEC 2004

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

\* = zodiac cruising only

***Cruise MULT12DEC 2004***

December 2004

16 PAX; 5 STAFF; 24 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		12 DEC 2004
At sea		13 DEC 2004
Bellingshausen Station	28	14 DEC 2004
Half Moon Island	21	15 DEC 2004
Trinity Island	24	15 DEC 2004
Cuerville Island	17	16 DEC 2004
Neko Harbor, Andvord Bay	20	16 DEC 2004
Goudier Island	21	17 DEC 2004
Petermann Island	23	17 DEC 2004
Portal Point, Charlotte Bay	14	18 DEC 2004
Melchior Islands	24*	18 DEC 2004
At sea		19-20 DEC 2004
Ushuaia, ARGENTINA		21 DEC 2004

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

\* = zodiac cruising only

**Cruise MULT21DEC2004**

December 2004

43 PAX; 5 STAFF; 27 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		21 DEC 2004
At sea		22 DEC 2004
Aitcho Islands	51	23 DEC 2004
Snow Hill Island	41	24 DEC 2004
Paulet Island	45	24 DEC 2004
Whalers Bay, Deception Island	47	25 DEC 2004
Pendulum Cove, Deception Island	46	25 DEC 2004
Hannah Point, Livingston Island	52	25 DEC 2004
Neko Harbor, Andvord Bay	47	26 DEC 2004
Skontorp Cove, Paradise Bay	46*	26 DEC 2004
Goudier Island	50	26 DEC 2004
Cuerville Island	47	27 DEC 2004
Melchior Islands	39*	27 DEC 2004
At sea		28-29 DEC 2004
Ushuaia, ARGENTINA		30 DEC 2004

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

\* = zodiac cruising only

**Cruise MULT30DEC2004**

December 2004/January 2005

49 PAX; 5 STAFF; 27 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		30 DEC 2004
At sea		31 DEC 2004
Aitcho Island	55	01 JAN 2005
Paulet Island	56	02 JAN 2005
Brown Bluff, Tabarin Peninsula	55	02 JAN 2005
Gourdin Island	56	02 JAN 2005

Hannah Point, Livingston Island	54	03 JAN 2005
Whalers Bay, Deception Island	53	03 JAN 2005
Pendulum Cove, Deception Island	32	03 JAN 2005
Cuerville Island	52	04 JAN 2005
Danco Island	53	04 JAN 2005
Skontorp Dove, Paradise Bay	54*	05 JAN 2005
Almirante Brown Station	50	05 JAN 2005
Neko Harbor, Andvord Bay	51	05 JAN 2005
Petermann Island	51	06 JAN 2005
Goudier Island	55	06 JAN 2005
At sea		07-08 JAN 2005
Ushuaia, ARGENTINA		09 JAN 2005

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

\* = zodiac cruising only

**Cruise MULT09JAN2005**

January 2005

48 PAX; 6 STAFF; 26 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Ushuaia, ARGENTINA		09 JAN 2005
At sea		10 JAN 2005
Falkland Islands		11-12 JAN 2005
At sea		13-14 JAN 2005
South Georgia		15-18 JAN 2005
At sea		19-20 JAN 2005
Cape Lookout, Elephant Island	50	21 JAN 2005
Hannah Point, Livingston Island	51	22 JAN 2005
Whalers Bay, Deception Island	39	22 JAN 2005
Neko Harbor, Andvord Bay	50	23 JAN 2005
Paradise Bay	51*	23 JAN 2005
Almirante Brown Station	1	23 JAN 2005
Goudier Island	52	23 JAN 2005
Ronge Island	49	24 JAN 2005

Melchior Islands	37*	24 JAN 2005
At sea		25-26 JAN 2005
Ushuaia, ARGENTINA		27 JAN 2005

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

\* = zodiac cruising only

***Cruise MULT27JAN2005***

January/February 2005

41 PAX; 5 STAFF; 27 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		27 JAN 2005
At sea		28 JAN 2005
Penguin Island	45	29 JAN 2005
Hope Bay	46	30 JAN 2005
Gourdin Island	48	30 JAN 2005
Paulet Island	47	31 JAN 2005
Ronge Island	40	01 FEB 2005
Damoy Point, Wiencke Island	34	01 FEB 2005
Goudier Island	46	01 FEB 2005
Palmer Station, Anvers Island	50	02 FEB 2005
Torgersen Island	37	02 FEB 2005
Telefon Bay, Deception Island	45	03 FEB 2005
Pendulum Cove, Deception Island	28	03 FEB 2005
Whalers Bay, Deception Island	31	03 FEB 2005
Half Moon Island	46	03 FEB 2005
At sea		04-05 FEB 2005
Ushuaia, ARGENTINA		06 FEB 2005

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

\* = zodiac cruising only; ^ = camping

**Cruise MULT06FEB2005**

February 2005

40 PAX; 9 STAFF; 27 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		06 FEB 2005
At sea		07 FEB 2005
Yankee Harbor	26	08 FEB 2005
Yankee Harbor (kayaking)	12	08 FEB 2005
Yankee Harbor (scuba diving)	9	08 FEB 2005
Half Moon Island	27	09 FEB 2005
Half Moon Island (kayaking)	7	09 FEB 2005
Half Moon Island (scuba diving)	3	09 FEB 2005
Pendulum Cove, Deception Island	41	09 FEB 2005
Whalers Bay, Deception Island	37	09 FEB 2005
Whalers Bay, Deception Island (scuba diving)	10	09 FEB 2005
Neko Harbor, Andvord Bay	44	10 FEB 2005
Neko Harbor, Andvord Bay (scuba diving)	5	10 FEB 2005
Danco Island	34	10 FEB 2005
Paradise Bay	34	10 FEB 2005
Paradise Bay (scuba diving)	10	10 FEB 2005
Almirante Brown Station (camping)	9	11 FEB 2005
At sea		12 FEB 2005
Bellingshausen Station, King George Island	39	13 FEB 2005
Bellingshausen Station, KGI (scuba diving)	8	13 FEB 2005
At sea		14-15 FEB 2005
Ushuaia, ARGENTINA		16 FEB 2005

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

\* = zodiac cruising only

**Cruise MULT16FEB 2005**

February 2005

31 PAX; 8 STAFF; 27 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		16 FEB 2005
At sea		17 FEB 2005
Aitcho Islands	34	18 FEB 2005
Paulet Island	26	19 FEB 2005
Paulet Island (kayaking)	12	19 FEB 2005
Brown Bluff, Tabarin Peninsula	31	19 FEB 2005
Whalers Bay, Deception Island	38	20 FEB 2005
Hannah Point, Livingston Island	39	20 FEB 2005
Skontorp Cove, Paradise Bay	26	21 FEB 2005
Skontorp Cove, Paradise Bay (kayaking)	12	21 FEB 2005
Almirante Brown Station	29	21 FEB 2005
Cuerville Island	30	21 FEB 2005
Danco Island	11	21 FEB 2005
Danco Island (kayaking)	11	21 FEB 2005
Danco Island (camping)	13	22 FEB 2005
Petermann Island	40	22 FEB 2005
Petermann Island (kayaking)	12	22 FEB 2005
Goudier Island	38	22 FEB 2005
Goudier Island (kayaking)	8	23 FEB 2005
Neko Harbor, Andvord Bay	21	23 FEB 2005
Neko Harbor, Andvord Bay (kayaking)	12	23 FEB 2005
Melchior Islands	23*	23 FEB 2005
Melchior Islands (kayaking)	12	23 FEB 2005
Melchior Islands (scuba diving)	3	23 FEB 2005
At sea		24-25 FEB 2005
Ushuaia, ARGENTINA		26 FEB 2005

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

\* = zodiac cruising only

**Cruise MULT26FEB 2005**

February/March 2005

37 PAX; 8 STAFF; 27 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		26 FEB 2005
At sea		27-28 FEB 2005
Gourdin Island	46	01 MAR 2005
Gourdin Island (scuba diving)	9	01 MAR 2005
Gourdin Island (kayaking)	9	01 MAR 2005
Brown Bluff, Tabarin Peninsula	46	01 MAR 2005
Brown Bluff, Tabarin Peninsula (scuba diving)	9	01 MAR 2005
Brown Bluff, Tabarin Peninsula (kayaking)	7	01 MAR 2005
Whalers Bay, Deception Island	45	02 MAR 2005
Mikkelsen Harbor	45	02 MAR 2005
Mikkelsen Harbor (scuba diving)	9	02 MAR 2005
Enterprise Island	25*	03 MAR 2005
Enterprise Island (kayaking)	10	03 MAR 2005
Enterprise Island (scuba diving)	10	03 MAR 2005
Neko Harbor, Andvord Bay	48	03 MAR 2005
Neko Harbor, Andvord Bay (scuba diving)	10	03 MAR 2005
Neko Harbor, Andvord Bay (kayaking)	7	03 MAR 2005
Skontorp Cove, Paradise Bay	27*	03 MAR 2005
Almirante Brown Station (camping)	17	03 MAR 2005
Almirante Brown Station (camping)	13	04 MAR 2005
Damoy Point, Wiencke Island	44	04 MAR 2005
Dorian Bay (kayaking)	10	04 MAR 2005
Goudier Island	47	04 MAR 2005
Casablanca Island (scuba diving)	3	04 MAR 2005
Jougla Point	47	04 MAR 2005
Jougla Point (kayaking)	11	05 MAR 2005
Cuerville Island	43	05 MAR 2005
Cuerville Island (kayaking)	10	05 MAR 2005
Melchior Islands	36*	05 MAR 2005
Melchior Islands (scuba diving)	5	05 MAR 2005



Melchior Islands (kayaking)	8	05 MAR 2005
At sea		06-07 MAR 2005
Ushuaia, ARGENTINA		08 MAR 2005

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

\* = zodiac cruising only

***Cruise MULT26FEB 2005 –Sub-chartered by Oceanwide Expeditions  
of The Netherlands***

March 2005

53 PAX; 4 STAFF; 23 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		11 MAR 2005
At sea		12 MAR 2005
Aitcho Islands	58	13 MAR 2005
Gourdin Island	52	14 MAR 2005
Brown Bluff, Tabarin Peninsula	57	14 MAR 2005
Esperanza Station	59	14 MAR 2005
Paulet Island	57	15 MAR 2005
Devil Island	58	15 MAR 2005
At sea		16 MAR 2005
Orcadas Station	59	17 MAR 2005
At sea		18 MAR 2005
South Georgia		19-21 MAR 2005
At sea		22 MAR – 08 APR 2005
Ascension Island		09 APR 2005

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

\* = zodiac cruising only

## LUBOV ORLOVA

### **Cruise ORL10NO2004**

November 2004

111 PAX; 9 STAFF; 64 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		10 NOV 2004
At sea		11-12 NOV 2004
Half Moon Island	122	13 NOV 2004
Whalers Bay, Deception Island	118	13 NOV 2004
Neko Harbor, Andvord Bay	117	14 NOV 2004
Danco Island	120	15 NOV 2004
Cuerville Island	118*	15 NOV 2004
Cierva Cove	114*	16 NOV 2004
Presidente Frei Station	124	17 NOV 2004
Bellingshausen Station	124	17 NOV 2004
At sea		18-19 NOV 2004
Ushuaia, ARGENTINA		20 NOV 2004

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

\* = zodiac cruising only

### **Cruise ORL20NOV2004**

November 2004

86 PAX; 11 STAFF; 64 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 NOV 2004
At sea		21-22 NOV 2004
Half Moon Island	95	23 NOV 2004
Whalers Bay, Deception Island	101	23 NOV 2004
At sea		24 NOV 2004
Brown Bluff, Tabarin Peninsula	96	25 NOV 2004
Esperanza Station	95	25 NOV 2004
Paulet Island (ship cruise only)		26 NOV 2004

Cape Valentine, Elephant Is. (ship cruise only)	27 NOV 2004
Point Wild, Elephant Is. (ship cruise only)	27 NOV 2004
At sea	28 NOV 2004
Ushuaia, ARGENTINA	29 NOV 2004

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

\* = zodiac cruising only

**Cruise ORL29NOV2004**

November/December 2004

55 PAX; 9 STAFF; 61 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		29 NOV 2004
At sea		30 NOV – 01 DEC 2004
Mikkelsen Harbor	109	02 DEC 2004
Petermann Island	109	03 DEC 2004
Pleneau Island	101*	03 DEC 2004
Gonzalez Videla Station	108	04 DEC 2004
Neko Harbor, Andvord Bay	103	04 DEC 2004
Whalers Bay, Deception Island	105	05 DEC 2004
Aitcho Islands	106	05 DEC 2004
At sea		06 DEC 2004
Ushuaia, ARGENTINA		07 DEC 2004

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

\* = zodiac cruising only

**Cruise ORL08DEC2004**

December 2004

64 PAX; 10 STAFF; 64 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		08 DEC 2004
At sea		09-10 DEC 2004
Pleneau Island	71*	11 DEC 2004

Cape Renard, Flanders Bay	64*	11 DEC 2004
Hidden Bay	64	11 DEC 2004
Neko Harbor, Andvord Bay	75	12 DEC 2004
Cuerville Island	71*	12 DEC 2004
Whalers Bay, Deception Island	71	13 DEC 2004
Half Moon Island	71	13 DEC 2004
Brown Bluff, Tabarin Peninsula	72	14 DEC 2004
Esperanza Station	82	14 DEC 2005
At sea		15-16 DEC 2004
Ushuaia, ARGENTINA		17 DEC 2004

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

\* = zodiac cruising only

***Cruise ORL17DEC2004***

December 2004

83 PAX; 10 STAFF; 62 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 DEC 2004
At sea		18-19 DEC 2004
Paulet Island	95	20 DEC 2004
Brown Bluff, Tabarin Peninsula	89	20 DEC 2004
Esperanza Station	89	21 DEC 2004
Rosamel Island vicinity	85*	21 DEC 2004
At sea		22 DEC 2004
Neko Harbor, Andvord Bay	96	23 DEC 2004
Goudier Island	94	23 DEC 2004
Jougla Point	94	23 DEC 2004
Danco Island	84	24 DEC 2004
Admiralty Bay, King George Island	80	24 DEC 2004

Skontorp Cove, Paradise Bay	82*	24 DEC 2004
At sea		25-26 DEC 2004
Ushuaia, ARGENTINA		27 DEC 2004

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

\* = zodiac cruising only

***Cruise ORL27DEC2004***

December/January 2005

115 PAX; 10 STAFF; 62 CREW

<b><u>Ports</u></b>	<b><u># PAX <sup>1</sup></u></b>	<b><u>Dates</u></b>
Ushuaia, ARGENTINA		27 DEC 2004
At sea		28 DEC 2004
Aitcho Islands	126	29 DEC 2004
At sea		30 DEC 2004
Danco Island	124	31 DEC 2004
Cuerverville Island	121	31 DEC 2004
South Bay, Livingston Island	112	31 DEC 2004
Almirante Brown Station	123	01 JAN 2005
Skontorp Cove, Paradise Bay	123*	01 JAN 2005
Goudier Island	114	01 JAN 2005
Jougla Point	104	01 JAN 2005
Neko Harbor, Andvord Bay	102	02 JAN 2005
Melchior Islands	114*	02 JAN 2005
At sea		03-04 JAN 2005
Ushuaia, ARGENTINA		05 JAN 2005

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

\* = zodiac cruising only

**Cruise ORL05JAN2005**

January 2005  
109 PAX; 11 STAFF; 63 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 JAN 2005
At sea		06 JAN 2005
Falkland Islands		07-08 JAN 2005
At sea		09 JAN 2005
South Georgia		10-14 JAN 2005
At sea		15 JAN 2005
Shingle Cove, Iceberg Bay	120	16 JAN 2005
Cape Lookout, Elephant Is. (ship cruising only)		17 JAN 2005
Half Moon Island	115	18 JAN 2005
Whalers Bay, Deception Island	114	18 JAN 2005
Neko Harbor, Andvord Bay	120	19 JAN 2005
Almirante Brown Station	120	19 JAN 2005
Skontorp Cove, Paradise Bay	120*	19 JAN 2005
Neumayer Station (ship cruising only)		20 JAN 2005
Goudier Island	113	20 JAN 2005
Jougla Point	113	20 JAN 2005
Lemaire Channel (ship cruising only)		20 JAN 2005
At sea		21-22 JAN 2005
Ushuaia, ARGENTINA		23 JAN 2005

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

\* = zodiac cruising only

**Cruise ORL23JAN2005**

January / February 2005  
106 PAX; 10 STAFF; 64 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		23 JAN 2005
At sea		24-25 JAN 2005

Aitcho Islands	110	26 JAN 2005
Brown Bluff, Tabarin Peninsula	108	26 JAN 2005
Esperanza Station	114	26 FEB 2005
Half Moon Island	112	27 JAN 2005
Whalers Bay, Deception Island	116	27 JAN 2005
Cuerville Island	104	28 JAN 2005
Neko Harbor, Andvord Bay	113	28 JAN 2005
Paradise Bay	114*	29 JAN 2005
Goudier Island	123	29 JAN 2005
Jougla Point	123	29 JAN 2005
Lemaire Channel (ship cruise only)		30 JAN 2005
At sea		31 JAN – 01 FEB 2005
Ushuaia, ARGENTINA		02 FEB 2005

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

\* = zodiac cruising only

**Cruise ORL02FEB2005**

February 2005

102 PAX; 12 STAFF; 64 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		02 FEB 2005
At sea		03-04 FEB 2005
Hannah Point, Livingston Island	115	05 FEB 2005
Baily Head, Deception Island	85*	05 FEB 2005
Whalers Bay, Deception Island	98	05 FEB 2005
Cuerville Island	110	06 FEB 2005
Paradise Bay	110*	06 FEB 2005
Lemaire Channel	110*	07 FEB 2005
Goudier Island	212	07 FEB 2005
Jougla Point	121	07 FEB 2005

Neko Harbor, Andvord Bay	112	08 FEB 2005
At sea		09-10 FEB 2005
Ushuaia, ARGENTINA		11 FEB 2005

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

\* = zodiac cruising only

**Cruise ORL11FEB2005**

February 2005

103 PAX; 11 STAFF; 65 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		11 FEB 2005
At sea		12-14 FEB 2005
Telefon Bay, Deception Island	112	15 FEB 2005
Lemaire Channel (ship cruising only)		16 FEB 2005
Petermann Island	111	16 FEB 2005
Lemaire Channel (ship cruising only)		16 FEB 2005
Goudier Island	111	16 FEB 2005
Jougla Point	111	16 FEB 2005
Neko Harbor, Andvord Bay	118	17 FEB 2005
Paradise Bay	105*	17 FEB 2005
At sea		18-19 FEB 2005
Ushuaia, ARGENTINA		20 FEB 2005

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

\* = zodiac cruising only

**Cruise ORL20FEB2005**

February/March 2005

104 PAX; 12 STAFF; 62 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 FEB 2005
At sea		21-22 FEB 2005



Brown Bluff, Tabarin Peninsula	113	23 FEB 2005
Paulet Island	115	23 FEB 2005
Yankee Harbor, Greenwich Island	91	24 FEB 2005
Half Moon Island	113	24 FEB 2005
Whalers Bay, Deception Island	115	24 FEB 2005
Pendulum Cove, Deception Island	80	24 FEB 2005
Cuerverville Island	114	25 FEB 2005
Neko Harbor, Andvord Bay	119	25 FEB 2005
Skontorp Cove	114*	25 FEB 2005
Almirante Brown Station	93	26 FEB 2005
Lemaire Channel (ship cruising only)		26 FEB 2005
Goudier Island	113	26 FEB 2005
Jougla Point	111	26 FEB 2005
Neumayer Channel (ship cruising only)		26 FEB 2005
Melchior Islands	112*	26 FEB 2005
At sea		27-28 FEB 2005
Ushuaia, ARGENTINA		01 MAR 2005

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

\* = zodiac cruising only

**Cruise ORL01MAR2005**

March 2005

88 PAX; 12 STAFF; 64 CREW

<b><u>Ports</u></b>	<b><u># PAX <sup>1</sup></u></b>	<b><u>Dates</u></b>
Ushuaia, ARGENTINA		01 MAR 2005
At sea		02 MAR 2005
Aitcho Islands	100	03 MAR 2005
Baily Head, Deception Island	89*	04 MAR 2005
Telefon Bay, Deception Island	98	04 MAR 2005
Pendulum Cove, Deception Island	94	04 MAR 2005
Sally Rocks, South Bay, Livingston Island	92	04 MAR 2005
Hannah Point, Livingston Island	95	04 MAR 2005
Lemaire Channel	99*	05 MAR 2005
Goudier Island	105	05 MAR 2005

Jougla Point	101	05 MAR 2005
Cuerville Island	80	06 MAR 2005
Neko Harbor, Andvord Bay	116	06 MAR 2005
Enterprise Island	97*	06 MAR 2005
Half Moon Island	84	07 MAR 2005
At sea		08-09 MAR 2005
Ushuaia, ARGENTINA		10 MAR 2005

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

\* = zodiac cruising only

## **AKADEMIK SHOKALSKIY**

### ***Cruise SHO02DEC2004 –Sub-chartered by Aurora Expeditions of Australia***

December 2004

42 PAX; 4 STAFF; 29 CREW

<b><u>Ports</u></b>	<b><u># PAX <sup>1</sup></u></b>	<b><u>Dates</u></b>
Ushuaia, ARGENTINA		02 DEC 2004
At sea		03 DEC 2004
Falkland Islands		04-05 DEC 2004
At sea		06-07 DEC 2004
South Georgia		08-11 DEC 2004
At sea		12 DEC 2004
South Orkneys		13-14 DEC 2004
Brown Bluff, Tabarin Peninsula	54	15 DEC 2004
Esperanza Station	54	15 DEC 2004
Hydrurga Rocks	50	16 DEC 2004
Goudier Island	46	16 DEC 2004
Jougla Point	24	16 DEC 2004

Intercurrence Island	49	17 DEC 2004
At sea		18-19 DEC 2004
Ushuaia, ARGENTINA		20 DEC 2004

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

\* = zodiac cruising only

**Cruise SHO20DEC2004**

December 2004

43 PAX; 3 STAFF; 29 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 DEC 2004
At sea		21-23 DEC 2004
Yankee Harbor, Greenwich Island	49	24 DEC 2004
Whalers Bay, Deception Island	52	24 DEC 2004
Neko Harbor, Andvord Bay	49	25 DEC 2004
Cuerville Island	52	25 DEC 2004
Skontorp Cove, Paradise Bay	43*	25 DEC 2004
Damoy Point, Wiencke Island (camping)	15	26 DEC 2004
Goudier Island	49	27 DEC 2004
Jougla Point	49	27 DEC 2004
At sea		28-29 DEC 2004
Ushuaia, ARGENTINA		30 DEC 2004

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

\* = zodiac cruising only

**Cruise SHO30DEC2004**

December 2004/January 2005

42 PAX; 3 STAFF; 29 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		30 DEC 2004
At sea		31 DEC 2004

Aitcho Islands	46	01 JAN 2005
Brown Bluff, Tabarin Peninsula	50	02 JAN 2005
Paulet Island	48	02 JAN 2005
Whalers Bay, Deception Island	50	03 JAN 2005
Hannah Point, Livingston Island	45	03 JAN 2005
Graham Passage	44*	04 JAN 2005
Neko Harbor, Andvord Bay	49	04 JAN 2005
Cuerville Island	41*	05 JAN 2005
Damoy Point, Wiencke Island	48	05 JAN 2005
Damoy Point, Wiencke Island (camping)	12	05 JAN 2005
Jougla Point	46	06 JAN 2005
Goudier Island	46	06 JAN 2005
Melchior Islands	41*	06 JAN 2005
At sea		07-08 JAN 2005
Ushuaia, ARGENTINA		09 JAN 2005

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

\* = zodiac cruising only

***Cruise SHO09JAN2005***

January 2005

48 PAX; 4 STAFF; 28 CREW

<b><u>Ports</u></b>	<b><u># PAX <sup>1</sup></u></b>	<b><u>Dates</u></b>
Ushuaia, ARGENTINA		09 JAN 2005
At sea		10 JAN 2005
Falkland Islands		11-12 JAN 2005
At sea		13-14 JAN 2005
South Georgia		15-18 JAN 2005
At sea		19-20 JAN 2005
Shingle Cove, Iceberg Bay	55	20 JAN 2005
At sea		21 JAN 2005
Yankee Harbor, Greenwich Island	54	22 JAN 2005
Half Moon Island	52	22 JAN 2005
Whalers Bay, Deception Island	54	22 JAN 2005
Goudier Island	52	23 JAN 2005

Jougla Point	52	23 JAN 2005
Lemaire Channel (ship cruising)		23 JAN 2005
Paradise Bay (camping)	11	23 JAN 2005
Paradise Bay	55*	24 JAN 2005
Neko Harbor, Andvord Bay	56	24 JAN 2005
At sea		25-26 JAN 2005
Ushuaia, ARGENTINA		27 JAN 2005

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

\* = zodiac cruising only

***Cruise SHO27JAN2005***

January/February 2005

35 PAX; 6 STAFF; 28 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		27 JAN 2005
At sea		28 JAN 2005
Melchior Islands	43*	29 JAN 2005
Cuerverville Island	43	30 JAN 2005
Lemaire Channel (ship cruising)		30 JAN 2005
Goudier Island	43	30 JAN 2005
Damoy Point, Wiencke Island (camping)	13	31 JAN 2005
Neko Harbor, Andvord Bay	40	31 JAN 2005
Skontorp Cove	38*	31 JAN 2005
Whalers Bay, Deception Island	39	01 FEB 2005
Half Moon Island	40	01 FEB 2005
Brown Bluff, Tabarin Peninsula	42	02 FEB 2005
Paulet Island	40	02 FEB 2005
Yankee Harbor, Greenwich Island	36	03 FEB 2005
Aitcho Islands	41	03 FEB 2005
At sea		04-05 FEB 2005
Ushuaia, ARGENTINA		06 FEB 2005

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

\* = zodiac cruising only

**Cruise SHO06FEB2005**

February 2005

33 PAX; 6 STAFF; 29 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		06 FEB 2005
At sea		07 FEB 2005
Aitcho Islands	41*	08 FEB 2005
Paulet Island	40	09 FEB 2005
Paulet Island (kayaking)	12	09 FEB 2005
Brown Bluff, Tabarin Peninsula (ship cruising)		09 FEB 2005
Brown Bluff, Tabarin Peninsula (kayaking)	12	09 FEB 2005
Hannah Point, Livingston Island	39	10 FEB 2005
Whalers Bay, Deception Island	39	10 FEB 2005
Danco Island	27*	11 FEB 2005
Danco Island (kayaking)	12	11 FEB 2005
Skontorp Cove	26*	11 FEB 2005
Skontorp Cove (kayaking)	12	11 FEB 2005
Argentine Islands	39	12 FEB 2005
Petermann Island	39	12 FEB 2005
Petermann Island (kayaking)	12	12 FEB 2005
Damoy Point, Wiencke Island (camping)	12	13 FEB 2005
Goudier Island	41	13 FEB 2005
Goudier Island (kayaking)	12	13 FEB 2005
Jougla Point	41	13 FEB 2005
At sea		14-15 FEB 2005
Ushuaia, ARGENTINA		16 FEB 2005

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

\* = zodiac cruising only

**Cruise SHO16FEB2005**

February 2005

27 PAX; 5 STAFF; 30 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		16 FEB 2005
At sea		17-18 FEB 2005
Paulet Island	35*	19 FEB 2005
Paulet Island (kayaking)	12	19 FEB 2005
Half Moon Island	34	20 FEB 2005
Whalers Bay, Deception Island	33	20 FEB 2005
Cuerville Island	33	21 FEB 2005
Paradise Bay (kayaking)	10	21 FEB 2005
Paradise Bay	35	21 FEB 2005
Neko Harbor, Andvord Bay	35	21 FEB 2005
Neko Harbor, Andvord Bay	12	21 FEB 2005
Almirante Brown Station (camping)	11	22 FEB 2005
Goudier Island	34	22 FEB 2005
Jougla Point	34	22 FEB 2005
Pleneau Island	28*	22 FEB 2005
Pleneau Island (kayaking)	8	22 FEB 2005
Argentine Islands	32	22 FEB 2005
Petermann Island	34	23 FEB 2005
Petermann Island (kayaking)	10	23 FEB 2005
Penola Strait	33*	23 FEB 2005
At sea		24-25 FEB 2005
Ushuaia, ARGENTINA		26 FEB 2005

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

\* = zodiac cruising only

**Cruise SHO26FEB2005**

February 2005

33 PAX; 5 STAFF; 31 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		26 FEB 2005
At sea		27-28 FEB 2005
Brown Bluff, Tabarin Peninsula	41*	01 MAR 2005
Paulet Island	42	01 MAR 2005
Half Moon Island	38	02 MAR 2005
Whalers Bay, Deception Island	40	02 MAR 2005
Telefon Bay, Deception Island	15	02 MAR 2005
Enterprise Island	37*	03 MAR 2005
Wilhelmina Bay (ship cruising)		03 MAR 2005
Cuerville Island	40	03 MAR 2005
Neko Harbor, Andvord Bay	29	03 MAR 2005
Paradise Bay	39	04 MAR 2005
Jougla Point	31	04 MAR 2005
Goudier Island	31	04 MAR 2005
Neumayer Channel	36*	04 MAR 2005
Damoy Point, Wiencke Island (camping)	11	04 MAR 2005
Lemaire Channel (ship cruising)		05 MAR 2005
Pleneau Island	45*	05 MAR 2005
At sea		06-07 MAR 2005
Ushuaia, ARGENTINA		08 MAR 2005

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

\* = zodiac cruising only



## Orient Lines, Inc.

Orient Lines, Inc. of Fort Lauderdale, Florida, conducted 6 cruises to the Antarctic during the 2004-2005 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 MPO26DEC2004**

December 2004/January 2005

513 PAX; 14 STAFF; 364 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Valparaiso, CHILE		26 DEC 2004
At sea		27 DEC 2004
Puerto Montt, Chile		28 DEC 2004
At sea		29-30 DEC 2004
Punta Arenas, Chile		31 DEC 2004
At sea		01-02 JAN 2005
Jougla Point	541	03 JAN 2005
Pendulum Cove, Deception Island	344	04 JAN 2005
Half Moon Island	511	05 JAN 2005
At sea		06-07 JAN 2004
Ushuaia, ARGENTINA		08 JAN 2005

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

\* = zodiac cruising only

**Cruise MPO08JAN2005**

January 2005

543 PAX; 13 STAFF; 364 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		08 JAN 2005
At sea		09 JAN 2005
Deception Station (ship cruising only)		10 JAN 2005
Cuerville Island	533*	10 JAN 2005
Lemaire Channel (ship cruising only)		11 JAN 2005
Waterboat Point, Graham Land	581	11 JAN 2005
Jougla Point	543	12 JAN 2005
Half Moon Island	536	13 JAN 2005
At sea		14-15 JAN 2005
Ushuaia, ARGENTINA		16 JAN 2005

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

\* = zodiac cruising only

**Cruise MPO16JAN2005**

January 2005

430 PAX; 15 STAFF; 365 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		16 JAN 2005
At sea		17-18 JAN 2005
South Georgia		19-21 JAN 2005
At sea		22-23 JAN 2005
Hope Bay	461	24 JAN 2005
Esperanza Station	435	24 JAN 2005

Point Wild, Elephant Island (ship cruising only)	25 JAN 2005
At sea	26-27 JAN 2005
Ushuaia, ARGENTINA	28 JAN 2005

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

\* = zodiac cruising only

**Cruise MPO28JAN2005**

January/February 2005

551 PAX; 15 STAFF; 368 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 JAN 2005
At sea		29 JAN 2005
Deception Station (ship cruising only)		30 JAN 2005
Cuerville Island	539*	30 JAN 2005
Jougla Point	600	31 JAN 2005
Waterboat Point, Graham Land	592	01 FEB 2005
Half Moon Island	573	02 FEB 2005
At sea		03-04 FEB 2005
Ushuaia, ARGENTINA		05 FEB 2005

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

\* = zodiac cruising only

**Cruise MPO05FEB2005**

February 2005

555 PAX; 16 STAFF; 367 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		05 FEB 2005
At sea		06 FEB 2005
Deception Station (ship cruising only)		07 FEB 2005
Cuerville Island	517*	07 FEB 2005
Jougla Point	575	08 FEB 2005

Waterboat Point, Graham Land	552	09 FEB 2005
Half Moon Island	524	10 FEB 2005
At sea		11-12 FEB 2005
Ushuaia, ARGENTINA		13 FEB 2005

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

\* = zodiac cruising only

**Cruise MPO13FEB2005**

February 2005

537 PAX; 15 STAFF; 372 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		13 FEB 2005
At sea		14 FEB 2005
Half Moon Island	184	15 FEB 2005
Waterboat Point	580	16 FEB 2005
Jougla Point	532	17 FEB 2005
Cape Lookout, Elephant Is. (ship cruising only)		18 FEB 2005
At sea		19 FEB 2005
Falkland Islands		20-21 FEB 2005
At sea		22-24 FEB 2005
Buenos Aires, ARGENTINA		25 FEB 2005

<sup>1</sup> = 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 2004-2005 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 CAD01DEC2004**

December 2004

94 PAX; 8 STAFF; 63 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		01 DEC 2004
At sea		02 DEC 2004
Aitcho Islands	101	03 DEC 2004
Neko Harbor, Andvord Bay	101	04 DEC 2004
Cuerverville Island	88	04 DEC 2004
Paradise Bay	98*	04 DEC 2004
Goudier Island (ice landing)	163	05 DEC 2004
Lemaire Channel (ship cruising only)		05 DEC 2004
Baily Head, Deception Island	58	06 DEC 2004
Whalers Bay, Deception Island	88	06 DEC 2004
Pendulum Cove, Deception Island	70	06 DEC 2004
Hannah Point, Livingston Island	57	06 DEC 2004
Gourdin Island	52*	07 DEC 2004
Devil Island	71	07 DEC 2004
Vega Island (ship cruising only)		07 DEC 2004
Paulet Island	93	08 DEC 2004
Esperanza Station	107	08 DEC 2004
Cape Lookout, Elephant Island	48	09 DEC 2004

Point Wild, Elephant Island	41*	09 DEC 2004
At sea		10-11 DEC 2004
Ushuaia, ARGENTINA		12 DEC 2004

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

\* = zodiac cruising only

***Cruise CAD12DEC2004***

December 2004

90 PAX; 11 STAFF; 68 CREW

<b><u>Ports</u></b>	<b><u># PAX <sup>1</sup></u></b>	<b><u>Dates</u></b>
Ushuaia, ARGENTINA		12 DEC 2004
At sea		13-15 DEC 2004
Point Wild, Elephant Is. (ship cruising only)		16 DEC 2004
Frei Station	100	17 DEC 2004
Aitcho Islands	97	17 DEC 2004
Cuerville Island	92	18 DEC 2004
Neko Harbor, Andvord Bay	103	18 DEC 2004
Paradise Bay	90*	18 DEC 2004
Goudier Island	92	19 DEC 2004
Jougla Point	88	19 DEC 2004
Baily Head, Deception Island	60	20 DEC 2004
Whalers Bay, Deception Island	80	20 DEC 2004
Pendulum Cove, Deception Island	74	20 DEC 2004
Hannah Point, Livingston Island	50	20 DEC 2004
At sea		21-22 DEC 2004
Ushuaia, ARGENTINA		23 DEC 2004

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

\* = zodiac cruising only

**Cruise CAD23DEC2004**  
December/January 2005  
109 PAX; 10 STAFF; 69 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		23 DEC 2004
At sea		24 DEC 2004
Falkland Islands		24-25 DEC 2004
At sea		26-28 DEC 2004
Point Wild, Elephant Island	116*	29 DEC 2004
Cape Lookout, Elephant Island	73	29 DEC 2004
Devil Island	57*	30 DEC 2004
Paulet Island	113	30 DEC 2004
Telefon Bay, Deception Island	99	31 DEC 2004
Pendulum Cove, Deception Island	83	31 DEC 2004
Whalers Bay, Deception Island	81	31 DEC 2004
Hannah Point, Livingston Island	57	31 DEC 2004
Neko Harbor, Andvord Bay	114	01 JAN 2005
Cuerville Island	94	01 JAN 2005
Damoy Point, Wiencke Island	27	02 JAN 2005
Goudier Island	75	02 JAN 2005
Waterboat Point, Graham Land	67	02 JAN 2005
Paradise Bay	110*	02 JAN 2005
Pleneau Island	101	03 JAN 2005
Petermann Island	89	03 JAN 2005
Lemaire Channel (ship cruising only)		03 JAN 2005
Half Moon Island	100	04 JAN 2005
Aitcho Islands	91	04 JAN 2005
At sea		05-06 JAN 2005
Ushuaia, ARGENTINA		07 JAN 2005

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

\* = zodiac cruising only

**Cruise CAD07JAN2005** – Sub-chartered by Zegrahm Expeditions of  
Seattle, Washington  
January 2005  
114 PAX; 12 STAFF; 69 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		07 JAN 2005
At sea		08 JAN 2005
Falkland Islands		09-10 JAN 2005
At sea		11 JAN 2005
South Georgia		12-14 JAN 2005
At sea		15 JAN 2005
Matthew Island	64	16 JAN 2005
Amphibolite Point	101*	16 JAN 2005
Point Wild, Elephant Island	138	17 JAN 2005
Paulet Island	144	18 JAN 2005
Devil Island	102	18 JAN 2005
Baily Head, Deception Island	55	19 JAN 2005
Whalers Bay, Deception Island	61	19 JAN 2005
Pendulum Cove, Deception Island	79	19 JAN 2005
Neko Harbor, Andvord Bay	102	20 JAN 2005
Paradise Bay	124*	20 JAN 2005
Torgersen Island	79	21 JAN 2005
Palmer Station, Anvers Island	127	21 JAN 2005
Dorian Bay	67	21 JAN 2005
At sea		22-23 JAN 2005
Ushuaia, ARGENTINA		24 JAN 2005

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

\* = zodiac cruising only



**Cruise CAD24JAN2005**

January/February 2005  
109 PAX; 10 STAFF; 70 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		24 JAN 2005
At sea		25 JAN 2005
Falkland Islands		26 JAN 2005
At sea		27 JAN 2005
Point Wild, Elephant Island	65*	28 JAN 2005
Paulet Island	120	29 JAN 2005
Brown Bluff, Tabarin Peninsula	116	29 JAN 2005
Cuerverville Island	119	30 JAN 2005
Neko Harbor, Andvord Bay	101	30 JAN 2005
Skontorp Cove	64*	30 JAN 2005
Goudier Island	122	31 JAN 2005
Jougla Point	88	31 JAN 2005
Lemaire Channel (ship cruising only)		31 JAN 2005
Enterprise Island	120*	31 JAN 2005
Baily Head, Deception Island	54	01 FEB 2005
Whalers Bay, Deception Island	119	01 FEB 2005
Hannah Point, Livingston Island	113	01 FEB 2005
Aitcho Islands	84	01 FEB 2005
At sea		02-03 FEB 2005
Ushuaia, ARGENTINA		04 FEB 2005

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

\* = zodiac cruising only

**Cruise CAD04FEB2005**

February 2005

106 PAX; 11 STAFF; 69 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		04 FEB 2005
At sea		05 FEB 2005
Falkland Islands		06 FEB 2005
At sea		07 FEB 2005
Aitcho Islands	117	08 FEB 2005
Neko Harbor, Andvord Bay	120	09 FEB 2005
Almirante Brown Station	105	09 FEB 2005
Skontorp Cove	113*	09 FEB 2005
Cuerverville Island	68	09 FEB 2005
Palmer Station, Anvers Island	126*	10 FEB 2005
Lemaire Channel (ship cruising only)		10 FEB 2005
Goudier Island	105	10 FEB 2005
Jougla Point	95	10 FEB 2005
Pendulum Cove, Deception Island	97	11 FEB 2005
Whalers Bay, Deception Is. (ship cruising only)		11 FEB 2005
Paulet Island (ship cruising only)		12 FEB 2005
Gourdin Island	79	12 FEB 2005
At sea		13-14 FEB 2005
Ushuaia, ARGENTINA		15 FEB 2005

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

\* = zodiac cruising only

**Cruise CAD15FEB2005**

February 2005

110 PAX; 10 STAFF; 68 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		15 FEB 2005
At sea		16 FEB 2005

Falkland Islands		17 FEB 2005
At sea		18 FEB 2005
Point Wild, Elephant Is. (ship cruising only)		19 FEB 2005
Paulet Island	110	20 FEB 2005
Devil Island	109	20 FEB 2005
Paradise Bay	118*	21 FEB 2005
Neko Harbor, Andvord Bay	112	21 FEB 2005
Lemaire Channel (ship cruising only)		22 FEB 2005
Petermann Island	104	22 FEB 2005
Argentine Islands	104	22 FEB 2005
Whalers Bay, Deception Island	107	23 FEB 2005
Pendulum Cove, Deception Island	93	23 FEB 2005
Hannah Point, Livingston Island	124	23 FEB 2005
At sea		24-25 FEB 2005
Ushuaia, ARGENTINA		26 FEB 2005

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

\* = zodiac cruising only

## Lindblad Expeditions

Lindblad Expeditions of New York City, New York, conducted seven cruises to the Antarctic during the 2004-2005 season, using the *M/V Endeavor*. Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

### M/V ENDEAVOR

#### **Cruise END29N2004**

November/December 2004

105 PAX; 15 STAFF; 68 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Punta Arenas, CHILE		29 NOV 2004
At sea		30 NOV 2004

Port Stanley, Falkland Islands		01 DEC 2004
At sea		02-03 DEC 2004
South Georgia		04-07 DEC 2004
At sea		08-10 DEC 2004
Paulet Island	112	11 DEC 2004
Paulet Island (scuba diving)	1	11 DEC 2004
Whalers Bay, Deception Island	112	12 DEC 2004
Whalers Bay, Deception Island (scuba diving)	1	12 DEC 2004
Bailey Head, Deception Island	82	12 DEC 2004
Jougla Point (ice walk)	109	13 DEC 2004
Cuerville Island	48	13 NOV 2004
Cuerville Island	1	13 DEC 2004
Neko Harbor, Andvord Bay	59	14 DEC 2004
Neko Harbor, Andvord Bay (kayaking)	84	14 DEC 2004
At sea		15-16 DEC 2004
Ushuaia, ARGENTINA		17 DEC 2004

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

\* = zodiac cruising only

***Cruise END17DEC2004***

December 2004

108 PAX; 10 STAFF; 68 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		17 DEC 2004
At sea		18-19 DEC 2004
Cuerville Island	114	20 DEC 2004
Cuerville Island (scuba diving)	1	20 DEC 2004
Jougla Point (ice landing)	113	20 DEC 2004
Almirante Brown Station	113	21 DEC 2004
Almirante Brown Station (kayaking)	90	21 DEC 2004
Almirante Brown Station (scuba diving)	1	21 DEC 2004
Neko Harbor, Andvord Bay	99	22 DEC 2004
Enterprise Island (kayaking)	51	22 DEC 2004
Enterprise Island (scuba diving)	1	22 DEC 2004

Whalers Bay, Deception Island	113	23 DEC 2004
Whalers Bay, Deception Island (scuba diving)	1	23 DEC 2004
Hannah Point, Livingston Island	98	23 DEC 2004
Brown Bluff, Tabarin Peninsula	108	24 DEC 2004
Paulet Island	95	24 DEC 2004
Paulet Island (scuba diving)	1	24 DEC 2004
Madder Cliffs, Joinville Island	69	25 DEC 2004
Madder Cliffs, Joinville Island (kayaking)	59	25 DEC 2004
Madder Cliffs, Joinville Island (scuba diving)	1	25 DEC 2004
Gourdin Island	109	25 DEC 2004
At sea		26-27 DEC 2004
Ushuaia, ARGENTINA		28 DEC 2004

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

\* = zodiac cruising only

***Cruise END28DEC2004***

December 2004/January 2005

117 PAX; 12 STAFF; 68 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Ushuaia, ARGENTINA		28 DEC 2004
At sea		29-30 DEC 2004
Brown Bluff, Tabarin Peninsula	127	31 DEC 2004
Devil Island	120	31 DEC 2004
Devil Island (scuba diving)	1	31 DEC 2004
Snow Hill Island	122	01 JAN 2005
Whalers Bay, Deception Island	115	02 JAN 2005
Pendulum Cove, Deception Island	79	02 JAN 2005
Hannah Point, Livingston Island	112	02 JAN 2005
Almirante Brown Station (kayaking)	100	03 JAN 2005
Almirante Brown Station	117	03 JAN 2005
Neko Harbor, Andvord Bay	104	03 JAN 2005
Damoy Point, Wiencke Island	43	04 JAN 2005
Goudier Island	117	04 JAN 2005
Pleneau Island	78	04 JAN 2005

Palmer Station, Anvers Island	152	05 JAN 2005
Torgersen Island	93	05 JAN 2005
At sea		06-07 JAN 2005
Ushuaia, ARGENTINA		08 JAN 2005

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

\* = zodiac cruising only

**Cruise END08JAN2005**

January 2005

107 PAX; 12 STAFF; 68 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		08 JAN 2005
At sea		09 JAN 2005
Aitcho Islands	118	10 JAN 2005
Brown Bluff, Tabarin Peninsula	115	11 JAN 2005
Devil Island	121	11 JAN 2005
Kinnis Cove (Suspiros Bay), Joinville Island	114	12 JAN 2005
Baily Head, Deception Island	121	13 JAN 2005
Whalers Bay, Deception Island	134	13 JAN 2005
Telefon Bay, Deception Island	112	13 JAN 2005
Neko Harbor, Andvord Bay	635	14 JAN 2005
Cuerville Island	123	14 JAN 2005
Petermann Island	3	15 JAN 2005
Damoy Point, Wiencke Island	104	15 JAN 2005
Goudier Island	113	16 JAN 2005
Jougla Point	96	16 JAN 2005
At sea		17-18 JAN 2005
Ushuaia, ARGENTINA		19 JAN 2005

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

\* = zodiac cruising only; %= scuba

**Cruise END19JAN2005**

January 2005

104 PAX; 14 STAFF; 67 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		19 JAN 2005
At sea		20 JAN 2005
Aitcho Islands	118	21 JAN 2005
Paulet Island	112	22 JAN 2005
Brown Bluff, Tabarin Peninsula	118	22 JAN 2005
Devil Island	89	23 JAN 2005
Whalers Bay, Deception Island	110	24 JAN 2005
Whalers Bay, Deception Island (scuba diving)	3	24 JAN 2005
Telefon Bay, Deception Island	97	24 JAN 2005
Petermann Island	4	25 JAN 2005
Damoy Point, Wiencke Island	86	25 JAN 2005
Almirante Brown Station	49	25 JAN 2005
Palmer Station, Anvers Island	107	26 JAN 2005
Torgersen Island	92	26 JAN 2005
Palmer Station, Anvers Island	15	27 JAN 2005
Goudier Island	99	27 JAN 2005
Jougla Point	78	27 JAN 2005
Cuerville Island	102	27 JAN 2005
At sea		28-29 JAN 2005
Ushuaia, ARGENTINA		30 JAN 2005

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

\* = zodiac cruising only

**Cruise END30JAN2005**

January/February 2005

111 PAX; 11 STAFF; 68 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		30 JAN 2005
At sea		31 JAN 2005

Aitcho Islands	120	01 FEB 2005
Paulet Island	116	02 FEB 2005
Snow Hill Island	117	02 FEB 2005
Devil Island	109	03 FEB 2005
Brown Bluff, Tabarin Peninsula	117	03 FEB 2005
Whalers Bay, Deception Island	116	04 FEB 2005
Telefon Bay, Deception Island	84	04 FEB 2005
Neko Harbor, Andvord Bay	41	05 FEB 2005
Almirante Brown Station	23	05 FEB 2005
Waterboat Point, Graham Land	3	05 FEB 2005
Petermann Island	103	06 FEB 2005
Damoy Point, Wiencke Island	91	06 FEB 2005
At sea		07-09 FEB 2005
Ushuaia, ARGENTINA		10 FEB 2005

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

\* = zodiac cruising only

**Cruise END10FEB2005**

February 2005

111 PAX; 10 STAFF; 68 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		10 FEB 2005
At sea		11-12 FEB 2005
Cuerverville Island	113	13 FEB 2005
Neko Harbor, Andvord Bay	112	13 FEB 2005
Petermann Island	110	14 FEB 2005
Jougla Point	90	14 FEB 2005
Mikkelsen Harbor	90	15 FEB 2005
Telefon Bay, Deception Island	109	16 FEB 2005
Whalers Bay, Deception Island	99	16 FEB 2005
Paulet Island	98	17 FEB 2005
Bald Head, Trinity Peninsula	92	17 FEB 2005
Cape Valentine, Elephant Is. (ship cruising)		18 FEB 2005
Point Wild, Elephant Island (ship cruising)		18 FEB 2005



Shingle Cove, Coronation Island	112	19 FEB 2005
At sea		20 FEB 2005
South Georgia		21-25 FEB 2005
At sea		26-27 FEB 2005
Port Stanley, Falkland Islands		28 FEB 2005
Falkland Island		01 MAR 2005
At sea		02 MAR 2005
Ushuaia, ARGENTINA		03 MAR 2005

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

\* = zodiac cruising only

## Discovery World Cruises

Discovery World Cruises, of Fort Lauderdale, Florida, conducted three cruises to the Antarctic during the 2004-2005 season, using the *M/V Discovery*. Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

### M/V DISCOVERY

#### **Cruise DIS29DEC2005**

December 2004/January 2005

495 PAX; 15 STAFF; 303 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Buenos Aires, ARGENTINA		29 DEC 2004
At sea		30 DEC 2004 – 01 JAN 2005
Falkland Islands		02 JAN 2005
Port Stanley, Falkland Islands		03 JAN 2005
At sea		04-05 JAN 2005
Hope Bay	443*	06 JAN 2005
Gonzalez Videla Station	527	07 JAN 2005
Half Moon Island	517	08 JAN 2005

Deception Island (ship cruising)	813	08 JAN 2005
At sea		09 JAN 2005
Ushuaia, ARGENTINA		10 JAN 2005

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

\* = zodiac cruising only

**Cruise DIS10JAN2005**

January 2005

460 PAX; 15 STAFF; 303 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		10 JAN 2005
At sea		11-12 JAN 2005
Deception Island (ship cruising)	778	13 JAN 2005
English Strait	426*	13 JAN 2005
Hope Bay	93*	14 JAN 2005
Waterboat Point, Graham Land	501	15 JAN 2005
Half Moon Island	491	16 JAN 2005
At sea		17 JAN 2005
Ushuaia, ARGENTINA		18 JAN 2005

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

\* = zodiac cruising only

**Cruise DIS18JAN2005**

January/February 2005

541 PAX; 15 STAFF; 303 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		18 JAN 2005
At sea		19 JAN 2005
Deception Island (ship cruising)	859	20 JAN 2005
At sea		21 JAN 2005
Gonzalez Videla Station	573	22 JAN 2005

Admiralty Bay, King George Island	497	23 JAN 2005
At sea		21-31 JAN 2005
Valparaiso, CHILE		01 FEB 2005

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

\* = zodiac cruising only

## Travel Dynamics International

Travel Dynamics International of New York, New York, conducted five cruises to the Antarctic during the 2004-2005 season, using the *M/V Orion*. Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

### M/V ORION

#### **Cruise ORI02DEC2004**

December 2004

95 PAX; 7 STAFF; 62 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		02 DEC 2004
At sea		03 DEC 2004
Penguin Island	90	04 DEC 2004
Aitcho Islands	81	05 DEC 2004
Half Moon Island	96	05 DEC 2004
Almirante Brown Station	92	06 DEC 2004
Jougla Point	85	06 DEC 2004
Neko Harbor, Andvord Bay	82	07 DEC 2004
Cuerverville Island	81	07 DEC 2004

Whalers Bay, Deception Island	90	08 DEC 2004
At sea		09 DEC 2004
Ushuaia, ARGENTINA		10 DEC 2004

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

\* = zodiac cruising only

***Cruise ORI10DEC2004***

December 2004

80 PAX; 7 STAFF; 60 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		10 DEC 2004
At sea		11 DEC 2004
Penguin Island	88	12 DEC 2004
Aitcho Islands	85	13 DEC 2004
Half Moon Island	84	13 DEC 2004
Paradise Bay	76*	14 DEC 2004
Goudier Island	81	15 DEC 2004
Jougla Point	81	15 DEC 2004
Cuerville Island	74	16 DEC 2004
Whalers Bay, Deception Island	81	17 DEC 2004
Hannah Point, Livingston Island	97	17 DEC 2004
At sea		18-19 DEC 2004
Ushuaia, ARGENTINA		20 DEC 2004

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

\* = zodiac cruising only

**Cruise ORI20DEC2004**

December 2004

97 PAX; 7 STAFF; 61 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		20 DEC 2004
At sea		21-22 DEC 2004
Yankee Harbor, Greenwich Island	96	23 DEC 2004
Whalers Bay, Deception Island	97	23 DEC 2004
Goudier Island	107	24 DEC 2004
Jougla Point	107	24 DEC 2004
Cuerville Island	97	25 DEC 2004
Almirante Brown Station	91	25 DEC 2004
Paradise Bay	101*	25 DEC 2004
Paulet Island	101	26 DEC 2004
Hannah Point, Livingston Island	81	27 DEC 2004
At sea		28-29 DEC 2004
Ushuaia, ARGENTINA		30 DEC 2004

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

\* = zodiac cruising only

**Cruise ORI30DEC2004**

December 2004/January 2005

106 PAX; 7 STAFF; 61 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		30 DEC 2004
At sea		31 DEC 2004
Cape Lookout, Elephant Island	104	01 JAN 2005
Penguin Island	115	02 JAN 2005
Brown Bluff, Tabarin Peninsula	115	03 JAN 2005
Paulet Island	110	03 JAN 2005
Whalers Bay, Deception Island	94	04 JAN 2005
Pleneau Island	101*	05 JAN 2005

Goudier Island	110	05 JAN 2005
Jougla Point	109	05 JAN 2005
Presidente Frei Station, King George Island	116	06 JAN 2005
Bellingshausen Station, King George Island	116	06 JAN 2005
At sea		07-08 JAN 2005
Ushuaia, ARGENTINA		09 JAN 2005

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

\* = zodiac cruising only

***Cruise ORI09JAN2005***

January 2005

99 PAX; 8 STAFF; 61 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		09 JAN 2005
At sea		10 JAN 2005
Penguin Island	99	11 JAN 2005
Paulet Island	104	12 JAN 2005
Brown Bluff, Tabarin Peninsula	112	12 JAN 2005
Cuerville Island	110	13 JAN 2005
Goudier Island	106	13 JAN 2005
Jougla Point	106	13 JAN 2005
Almirante Brown Station	103	14 JAN 2005
Melchior Islands	101*	14 JAN 2005
Palmer Station, Anvers Island	120	15 JAN 2005
Torgersen Island	105	15 JAN 2005
Whalers Bay, Deception Island	110	16 JAN 2005
Hannah Point, Livingston Island	104	16 JAN 2005
At sea		17-18 JAN 2005
Ushuaia, ARGENTINA		19 JAN 2005

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

\* = zodiac cruising only

**Cruise ORI19JAN2005**

January 2005

78 PAX; 8 STAFF; 60 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		19 JAN 2005
At sea		20 JAN 2005
Port Stanley, Falkland Islands		21 JAN 2005
Falkland Islands		22 JAN 2005
At sea		23-24 JAN 2005
Paulet Island	87	25 JAN 2005
Brown Bluff, Tabarin Peninsula	97	25 JAN 2005
Cuerville Island	80	26 JAN 2005
Almirante Brown Station	86	26 JAN 2005
Goudier Island	89	27 JAN 2005
Jougla Point	89	27 JAN 2005
Whalers Bay, Deception Island	85	28 JAN 2005
Hannah Point, Livingston Island	83	28 JAN 2005
At sea		29-30 JAN 2005
Ushuaia, ARGENTINA		31 JAN 2005

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

\* = zodiac cruising only

**Cruise ORI31JAN2005**

January/February 2005

97 PAX; 8 STAFF; 60 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		31 JAN 2005
At sea		01-02 FEB 2005
Half Moon Island	102	03 FEB 2005
Neko Harbor, Andvord Bay	102	04 FEB 2005
Palmer Station, Anvers Island	117	04 FEB 2005
Torgersen Island	102	04 FEB 2005
Goudier Island	107	05 FEB 2005

Jougla Point	103	05 FEB 2005
Cuerville Island	81	05 FEB 2005
Almirante Brown Station	102	06 FEB 2005
Paradise Bay	94*	06 FEB 2005
Whalers Bay, Deception Island	99	07 FEB 2005
Hannah Point, Livingston Island	102	07 FEB 2005
At sea		08-09 FEB 2005
Ushuaia, ARGENTINA		10 FEB 2005

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

\* = zodiac cruising only

## Elegant Cruises and Tours

Elegant Cruises and Tours of Port Washington, New York, conducted five cruises to the Antarctic during the 2004-2005 season, using the *M/S Andrea*. Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

### M/S ANDREA

#### **Cruise AND06DEC2004**

December 2004

4064 PAX; 68 STAFF; 45 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u>	<u>Dates</u>
Ushuaia, ARGENTINA		06 DEC 2004
At sea		07 DEC 2004
Half Moon Island	46	08 DEC 2004
Devil Island	46	09 DEC 2004
Pendulum Cove, Deception Island	45	10 DEC 2004
Telefon Bay, Deception Island	44	10 DEC 2004
Whalers Bay, Deception Island	60	10 DEC 2004
Cuerville Island	47	11 DEC 2004
Spigot Peak, Orne Island	50*	11 DEC 2004



Lagarrigue Cove (Selvick Cove)	47	11 DEC 2004
Enterprise island	46*	12 DEC 2004
Cierva Cove	36*	12 DEC 2004
Mikkelsen Harbor	59	12 DEC 2004
At sea		13-14 DEC 2004
Ushuaia, ARGENTINA		15 DEC 2004

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

\* = zodiac cruising only

***Cruise AND01JAN2005***

January 2005

58 PAX; 8 STAFF; 48 CREW

<u>Ports</u>	<u># PAX <sup>1</sup> Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		01 JAN 2005
At sea		02 JAN 2005
Penguin Island	67	03 JAN 2005
Gourdin Island	64	04 JAN 2005
Whalers Bay, Deception Island	65	05 JAN 2005
Pendulum Cove	64	05 JAN 2005
Trinity Island	56	05 JAN 2005
Cuerville Island	66	06 JAN 2005
Paradise Bay	74	06 JAN 2005
Jougla Point	62	07 JAN 2005
Goudier Island	66	07 JAN 2005
Hannah Point, Livingston Island	54	08 JAN 2005
At sea		09 JAN 2005
Ushuaia, ARGENTINA		10 JAN 2005

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

\* = zodiac cruising only

**Cruise AND10JAN2005**

January 2005  
59 PAX; 8 STAFF; 48 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		10 JAN 2005
At sea		11 JAN 2005
Half Moon Island	69	12 JAN 2005
Paulet Island	65	13 JAN 2005
Brown Bluff, Tabarin Peninsula	69	13 JAN 2005
Mikkelsen Harbor	66	14 JAN 2005
Tetrad Islands	67	14 JAN 2005
Curtiss Bay	65	15 JAN 2005
Cuerverville Island	75	15 JAN 2005
Goudier Island	74	16 JAN 2005
Almirante Brown Station	71	16 JAN 2005
Useful Island	66	16 JAN 2005
At sea		17-18 JAN 2005
Ushuaia, ARGENTINA		19 JAN 2005

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

\* = zodiac cruising only

**Cruise AND19JAN2005**

January 2005  
62 PAX; 6 STAFF; 46 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		19 JAN 2005
At sea		20 JAN 2005
Half Moon Island	71	21 JAN 2005
Brown Bluff, Tabarin Peninsula	68	22 JAN 2005
Madder Cliffs, Joinville Island	72	22 JAN 2005
Mikkelsen Harbor	69	23 JAN 2005
Tetrad Islands	69	23 JAN 2005
Curtiss Bay	39*	24 JAN 2005

Useful Island	70	24 JAN 2005
Damoy Point, Wiencke Island	65	24 JAN 2005
Goudier Island	73	24 JAN 2005
Almirante Brown Station	47	25 JAN 2005
Skontorp Cove, Paradise Bay	69*	25 JAN 2005
Cuerville Island	70	25 JAN 2005
At sea		26-27 JAN 2005
Ushuaia, ARGENTINA		28 JAN 2005

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

\* = zodiac cruising only

***Cruise AND28JAN2005***

January/February 2005  
73 PAX; 7 STAFF; 46 CREW

<b><u>Ports</u></b>	<b><u># PAX <sup>1</sup></u></b>	<b><u>Dates</u></b>
Ushuaia, ARGENTINA		28 JAN 2005
At sea		29 JAN 2005
Arctowski Station	82	30 JAN 2005
Madder Cliffs, Joinville Island	42	31 JAN 2005
Brown Bluff, Tabarin Peninsula	79	31 JAN 2005
Enterprise Island	80*	01 FEB 2005
Cuerville Island	78	01 FEB 2005
Neko Harbor, Andvord Bay	66	02 FEB 2005
Damoy Point, Wiencke Island	64	02 FEB 2005
Goudier Island	82	02 FEB 2005
Useful Island	82	02 FEB 2005
Hannah Point, Livingston Island	6	03 FEB 2005
Whalers Bay, Deception Island	79	03 FEB 2005
Pendulum Cove, Deception Island	2	03 FEB 2005
At sea		04-05 FEB 2005
Ushuaia, ARGENTINA		06 FEB 2005

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

\* = zodiac cruising only

**Cruise AND06FEB2005**

February 2005  
78 PAX; 7 STAFF; 47 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		06 FEB 2005
At sea		07 FEB 2005
Telefon Bay, Deception Island	85	08 FEB 2005
Pendulum Cove, Deception Island	81	08 FEB 2005
Useful Island	83	09 FEB 2005
Damoy Point, Wiencke Island	87	09 FEB 2005
Goudier Island	90	09 FEB 2005
Spigot Peak, Orne Island	85	10 FEB 2005
Cuerville Island	82	10 FEB 2005
Cierva Cove,	78	10 FEB 2005
At sea		11-12 FEB 2005
South Georgia		13-17 FEB 2005
At sea		18-19 FEB 2005
Falkland Island		20-21 FEB 2005
At sea		22 FEB 2005
Ushuaia, ARGENTINA		23 FEB 2005

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

\* = zodiac cruising only

**Cruise AND23FEB2005**

February/March 2005  
78 PAX; 7 STAFF; 48 CREW

<u>Ports</u>	<u># PAX <sup>1</sup></u> <u>Landed</u>	<u>Dates</u>
Ushuaia, ARGENTINA		23 FEB 2005
At sea		24 FEB 2005
Whalers Bay, Deception Island	85	25 FEB 2005
Paradise Bay	86	26 FEB 2005
Useful Island	84	26 FEB 2005
Damoy Point, Wiencke Island	77	27 FEB 2005

Goudier Island	91	27 FEB 2005
Cuerville Island	85	27 FEB 2005
Half Moon Island	83	28 FEB 2005
Maxwell Bay, King George Island	84	28 FEB 2005
Point Wild, Elephant Island	73*	01 MAR 2005
At sea		02-03 MAR 2005
South Georgia		04-05 MAR 2005
At sea		06-07 MAR 2005
Falkland Islands		08-09 MAR 2005
At sea		10 MAR 2005
Ushuaia, ARGENTINA		11 MAR 2005

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

\* = zodiac cruising only

## ResidenSea

ResidenSea of Miami, Florida, conducted one cruises to the Antarctic during the 2004-2005 season, using the *M/S Andrea*. Given below, for each cruise, is the port of origin, sites visited (with dates) and the return port.

### M/S THE WORLD

#### **Cruise #1335**

December 2004/January 2005

310 PAX; 9 STAFF; 246 CREW

<u>Ports</u>	<u># PAX</u> <sup>1</sup>	<u>Dates</u>
Ushuaia, ARGENTINA		30 DEC 2004
At sea		31 DEC 2004
Point Wild, Elephant Island	300*	01 JAN 2005
At sea		02 JAN 2005
Whalers Bay, Deception Island	108	03 JAN 2005
Cuerville Island	375	04 JAN 2005

Almirante Brown Station	382	05 JAN 2005
Goudier Island	307	06 JAN 2005
Jougla Point	77	06 JAN 2005
Palmer Station, Anvers Island	135	07 JAN 2005
Yalour Islands	264*	07 JAN 2005
At sea		08-09 JAN 2005
Ushuaia, ARGENTINA		10 JAN 2005

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

\* = zodiac cruising only

## Other

### SHIP BORNE

Holland America Line of Seattle, Washington, operated the *M/S Amsterdam* for two cruises during the 2004-2005 season to the Antarctic Peninsula

#### **Cruise AMS15DEC2004**

December 15, 2004 – January 5, 2005 (Embarked Rio de Janeiro, Brazil and Disembarked Valparaiso, Chile)

No passenger landings were made in the Antarctic Treaty Area

1,323 PAX; 4 STAFF; 591 CREW

#### **Cruise AMS05JAN2005**

January 05-25, 2005 (Embarked Valparaiso, Chile and Disembarked Rio de Janeiro, Brazil)

No passenger landings were made in the Antarctic Treaty Area

1,295 PAX; 3 STAFF; 591 CREW

Princess Cruises of Santa Clarita, California, operated the *M/V Royal Princess* on a cruise around South America, during which it crossed into the Treaty Area approximately 72 hours for scenic cruising during December 17, 2004 to January 10, 2005. The vessel carried 1,032 passengers, 4 staff, and 549 crew. No landings were made.

Crystal Cruises, Inc. of Los Angeles, California, operated the *M/V Crystal Symphony* on a cruise around South America, during which it crossed into the Treaty Area approximately 72 hours for scenic cruising during January 21 to February 08, 2005. The vessel carried 705 passengers, 3 staff, and 551 crew. No landings were made.

Oceania Cruises, Inc. Of Miami, Florida, operated the *M/S Insignia* on a cruise around South America, during which it crossed into the Treaty Area approximately 72 hours for scenic cruising during December 17, 2004 to January 03, 2005. The vessel carried 669 passengers, 1 staff member, and 394 crew. No landings were made.

Antarctic Logistics and Expeditions (ALE) of Salt Lake City, Utah, conducted a number of excursions for clients from the base camp in the Patriot Hills to Vinson Massif, Dawson-Lambton Emperor Penguin colony, Dronning Maud Land, and the South Pole. They accommodated 190 clients, and had 79 staff and 21 aircrew members.

## **XI. Refuges**

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*Section XI of the Modifications of Activities Planned for 2004-2005 notes changes to existing refuges and survival caches in the McMurdo area as well as deactivated camps and stations elsewhere on the continent.*

*The following changes to these facilities occurred during the 2004-2005 season.*

### **Siple Dome Camp**

**Position:** 81°39'S, 149°04'E

Camp winterized for the season. One Jamesway remains standing. Equipment and cargo staged for retrograde.

### **Byrd Surface Camp**

**Position:** 80°01'S, 119°32'E

Camp winterized for the season. One Jamesway and one Generator Shack remain standing. Food, fuel, survival equipment are on site.

### **Odell Glacier Camp**

**Position:** 76° 40.866'S, 159° 54.807'E

Camp winterized for the season. One hut remains standing. Camp equipment is stored in the hut or on the cargo lines.



## XII. Permits, Species Killed, Captured

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*Information on Antarctic Conservation Act (P.L. 95-541) Permits issued during **1 July 2004 to 30 June 2005** is not available at this time. Check this website for future updates.*

## XIII. Radioactive Materials

*Section XIII of the Modifications of Activities Planned for 2004-2005 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>
B-006-M	$^3\text{H}$	$^3\text{H}$ - UTP $^3\text{H}$ - Thymidine	McMurdo Station	Energetics of protein metabolism during development of Antarctic echinoderms
B-047-M	$^{14}\text{C}$	$^{14}\text{C}$ – Sodium Bicarbonate	R/V Nathaniel B. Palmer	Interannual Variability in the Antarctic Ross Sea: Nutrient Fields and Seasonal Productivity II
B-300-M	$^{14}\text{C}$	$^{14}\text{C}$ - Alanine	McMurdo Station	Biogeochemistry of dissolved organic material in Pony Lake, Ross Island
B-422-M	$^{14}\text{C}$ $^3\text{H}$	$^{14}\text{C}$ – Toluene $^3\text{H}$ – Leucine	McMurdo Station/Dry Valleys	The Role of Natural Legacy on Ecosystem Function and Structure in a Polar Desert

## Delete

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
B-006-M	<sup>32</sup> P	<sup>14</sup> C - ATP <sup>32</sup> P - ATP	McMurdo Station	Energetics of protein metabolism during development of Antarctic echinoderms
B-310-M	<sup>3</sup> H	<sup>3</sup> H - Thymidine	McMurdo Station/ Taylor Valley	What limits denitrification and bacterial growth in Lake Bonney, Taylor Valley, Antarctica

## XIV. Research Rockets

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*Section XIV of the Modifications of Activities Planned for  
2004-2005 reports any deviations from the original plans regarding  
the use of research rockets in Antarctica.*

*No significant changes are noted.*

## **XV. Oceanography- Government**

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*Section XV of the Modifications of Activities Planned for 2004-2005 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 2004-2005 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 six science cruises during the period of 30 March 2004 through 31 March 2005. Cruises are:

#### **Cruise NBP04-03**

15 Apr – 11 May 2004 Transit Lyttelton, NZ to Punta Arenas, Chile

*Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific*

G-071-N (Stock)

#### **Cruise NBP04-04**

17 May – 17 Jul 2004 Punta Arenas, Chile to Cape Town South Africa

*International Collaborative Expedition to Collect and Study Fish Indigenous to Sub-Antarctic Habitats (ICEFISH)*

B-039-N (Detrich)

**Cruise NBP04-05**

22 Jul – 26 Jul 2004

*Sea Trials: Dynamic Positioning Systems/ SIMRAD*

**Cruise NBP04-06**

31 Jul – 02 Sep 2004 Cape Town, South Africa to Lyttelton, New Zealand

*Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific*

G-071-N (Stock)

**Cruise NBP04-06A**

03 Sep – 23 Sep 2004

*Transit to Auckland, NZ Drydock*

**Cruise NBP04-07**

24 Sep – 29 Oct 2004

*DP System and ADCP Sea Trials*

**Cruise NBP04-08**

6 Oct – 10 Dec 2004

*Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)*

O-215-N (Gordon)

*Mysticete whale acoustic census in the GLOBEC west Antarctic project area*

B-280-N (Thiele)

**Cruise NBP04-09 Lyttelton, New Zealand to McMurdo Station**

15 Dec, 2004 – 23 Jan, 2005

*Impact of solar radiation and nutrients on biogeochemical cycling of DMSP and DMS in the  
Ross Sea*

B-266-N (Kieber)

*Comparative and quantitative studies of protistan molecular ecology and physiology in coastal  
Antarctic waters*

B-207-N (Gast)

*Ultraviolet radiation induced changes in the patterns of production and biochemical composition of  
Antarctic marine phytoplankton*

B-206-N (Goes)

*Interactive effects of UV and vertical mixing on phytoplankton and bacterioplankton in the Ross  
Sea*

B-203-N (Neale)

*Interactive effects of UV and vertical mixing on phytoplankton and bacterial productivity of Ross  
Sea Phaeocystis Bloom*

B-200-N (Jeffrey)

*Impact of solar radiation and nutrients on biogeochemical cycling of DMSP and DMS in the  
Ross Sea*

B-002-N (Kiene)

**Cruise NBP05-01 depart McMurdo, arrive Lyttelton, New Zealand**

*Transit*

**Cruise NBP05-01B depart/arrive Lyttelton, New Zealand**

3 Mar – 25 Mar 2005

*Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific*

G-071-N (Stock)

## **Biology & Medicine**

<b>Principal Investigator</b>	<b>Event</b>	<b>Institution</b>
Dr. Ronald P. Kiene	B-002-N	University of South Alabama
Dr. William Detrich	B-039-N	Northeastern University
Dr. Wade Jeffrey	B-200-N	University of West Florida
Dr. Patrick Neale	B-203-N	Smithsonian Institute
Dr. Joaquim Goes	B-203-N	Bigelow Marine Laboratory
Dr. Rebecca Gast	B-207-N	Woods Hole Oceanographic Institution
Dr. David Kieber	B-266-N	State University of New York, Syracuse
Dr. Deborah Thiele	B-280-N	Deakin University

## **Oceans and Climate**

<b>Principal Investigator</b>	<b>Event</b>	<b>Institution</b>
Dr. Arnold Gordon	O-215-N	Columbia University, LDEO

## **Geology & Geophysics**

<b>Principal Investigator</b>	<b>Event</b>	<b>Institution</b>
Dr. Joann Stock	G-071-0	California Institute of Technology



## ***R/V Laurence M. Gould***

The R/V *Laurence M. Gould* made seven science cruises and three passenger transports to the Antarctic Peninsula during the period of 31 March 2004 through 31 March 2005.

### **Cruise LMG04-04**

16 Apr – 27 May, 2004

*Collaborative research: Paleohistory of the Larsen Ice Shelf Phase II*

G-096-L (Domack)

*Consortium on the Ocean's Role in Climate (CORC) AbRUpt climate ChangE Studies (ARCHES)*

G-124-L (Visbeck)

### **Cruise LMG04-05**

14 May – 27, May 2004

*Palmer Station Shuttle*

### **Cruise LMG04-08**

*Northbound Hazardous Waste Run to Fourchon, LA*

30 Jun – 27 Jul 2004

### **Cruise LMG04-09**

28 Jul – 18 Aug 2004

*Maintenance Period/Drydock Port Fourchon, LA*

**Cruise LMG04-10**

19 Aug – 23 Sep 2004

*Southbound Transit to Talcahuano and Punta Arenas, Chile*

**Cruise LMG04-11**

28 Sep – 12 Oct, 2004

Palmer Station Opening

*Tracers of biological productivity and gas exchange*

O-271-L (Emerson)

**Cruise LMG04-12**

17 Oct – 30 Oct 2004

*Foraging Behavior and Demography of Pygoscelis Penguins*

(COPA Field Camp)

B-040-E (Trivelpiece)

**Cruise LMG04-13A**

6 Nov – 18 Nov, 2004

*Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites*

(Cape Shirreff Field Camp Put-in/Opening)

B-086-E (Naveen)

**Cruise LMG04-14**

23 Nov – 22 Dec, 2004

*Relevance of planktonic larval dispersal to endemism and biogeography of antarctic benthic invertebrates*

B-281-L (Halanych)

*Salpa thompsoni in the Southern Ocean: Bioenergetics, population dynamics and biogeochemical impact*

B-307-L (Kremer)

**Cruise LMG05-01**

29 Dec, 2004 – 6 Feb, 2005

*Palmer Long Term Ecological Research (LTER) Project: Climate migration, ecological response and teleconnections in an ice-dominated environment*

B-028-L (Ross-Quetin) B-045-L (Ducklow)

*Distribution and ecology of ammonia oxidizing bacteria in the Palmer LTER study area*

B-114-L (Hollibaugh)

**Cruise LMG05-02**

11 Feb, 2005 – 11 March 2005

*Collaborative research: Paleohistory of the Larsen Ice Shelf Phase II*

G-096-L (Domack)

**Cruise LMG05-03**

15 Mar, 2005 – 29 Mar, 2005

*Palmer Station Turnover*

## **Biology & Medicine**

<b>Principal Investigator</b>	<b>I.D. No.</b>	<b>Institution</b>
Dr. Robin Ross-Quetin	B-028-L	University of California, Santa Barbara
Dr. Wayne Trivelpiece	B-040-L	Antarctic Ecosystem Research Center (AMLR)
Dr. Hugh Ducklow	B-045-L	Virginia Institute of Marine Sciences
Dr. Ron Naveen	B-086-E	Oceanites, Inc.
Dr. James Hollibaugh	B-114-L	University of Georgia
Dr. Kenneth Halanych	B-281-L	Auburn University
Dr. Patricia Kremer	B-307-L	University of Connecticut

## **Geology and Geophysics**

<b>Principal Investigator</b>	<b>I.D. No.</b>	<b>Institution</b>
Dr. Eugene Domack	G-096-L	Hamilton College
Dr. Martin Visbeck	G-124-L	Leibniz Institute of Marine Sciences

## **Ocean & Climate**

<b>Principal Investigator</b>	<b>I.D. No.</b>	<b>Institution</b>
Dr. Steven Emerson	O-271-L	University of Washington

## XVI. Visiting Expeditions

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*Section XVI of the Modifications of the United States Antarctic Activities Planned for 2004-2005 provides information on expeditions visiting U.S. stations during the 2004-2005 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>
27 Dec 2004	17 days	32	AN-3 Recovery Group IL-76 aircraft # RA-76445 AN-3T aircraft #9801	Recover AN-3T Aircraft left at South Pole in 2001
25 Jan 2005	4 hours	115	Kapitan Khlebnikov	Tourist visit
01Feb 2005	4 days	6	Chinese Treaty Compliance Inspection Delegation (V-019-M)	Treaty Compliance Inspection
06 Feb 2005	4 hours	97	Kapitan Khlebnikov	Tourist visit

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

<b><u>Date of Visit</u></b>	<b><u>Duration Of Visit</u></b>	<b><u>Number of Visitors</u></b>	<b><u>Group Name or # of Vessel or Aircraft</u></b>	<b><u>Purpose of Visit</u></b>
4 Dec 2003	1.5 hours	2	AL&E Twin Otter C-FASG	Skier drop-off
7 Dec 2004	2.5 hours	9	AL&E Twin Otter C-GKBO	Tourist visit
7 Dec 2004	1.5 hours	3	AL&E Twin Otter C-FDHB:	Tourist visit: Skier drop-off
9 Dec 2004	49 hours	2	Kite Ski to Patriot Hills	Skier departure
12 Dec 2004	2 hours	10	AL&E Twin Otter C-FDHB	Tourist visit
13 Dec 2004	16 hours	4	AL&E: Ski Last Degree	Tourist visit: ski expedition arrival
13 Dec 2004	1.25 hours	2	AL&E Twin Otter C-GKBO	Skier pick-up
17 Dec 2004	3 hours	11	AL&E Twin Otter C-GKBO	Tourist visit
22 Dec 2004	22 hours	7	AL&E: Ski Last Degree	Tourist visit: Ski expedition arrival
22 Dec 2004	84 hours	4	AL&E: Invesco Perpetual Challenge Expedition	Tourist visit: Ski expedition arrival
23 Dec 2004	1.5 hours	3	AL&E Twin Otter C-GKBO	Skier pick-up
24 Dec 2004	48 hours	5	AL&E: Kites on Ice Expedition	Tourist visit: Ski expedition arrival
29 Dec 2004	76 hours	5	AL&E: Northwinds	Tourist visit: Ski

<b><u>Date of Visit</u></b>	<b><u>Duration Of Visit</u></b>	<b><u>Number of Visitors</u></b>	<b><u>Group Name or # of Vessel or Aircraft</u></b>	<b><u>Purpose of Visit</u></b>
			Expedition	expedition arrival
31 Dec 2004	47 hours	3	AL&E: Polish Expedition	Tourist visit: Ski Expedition arrival
1 Jan 2005	1 hour	2	AL&E Twin Otter C-GKBO	Skier pick-up
2 Jan 2005	3 hours	3	AL&E Twin Otter C-GKBO	Skier pick-up
16 Jan 2005	6 hours	1	AL&E: Ski Last Degree	Medical patient retrieved by SP due to medical condition
16 Jan 2005	5 hours	3	AL&E Twin Otter C-FDHB	Skier pick-up
16 Jan 2005	2.5 hours	5	AL&E: Ski Last Degree	Tourist Visit: Ski expedition arrival
18 Jan 2005	2 hours	2	AL&E Helicopter N369SB	Tourist Visit

## **Palmer Station**

<b>Date of Visit</b>	<b>Duration of Visit</b>	<b>Number of Visitors</b>	<b>Group Name or # of Vessel or Aircraft</b>	<b>Purpose of Visit</b>
14 Dec 04	3.5 hours	102	<i>M/S Polar Star</i>	Tourist
28 Dec 04	4.0 hours	10	<i>S/Y Sarah Vorwerk</i>	Yacht
5 Jan 05	4.5 hours	131	<i>M/S Endeavour</i>	Tourist
13 Jan 05	4.0 hours	1294	<i>SS Amsterdam</i>	Offshore Lecture

<b>Date of Visit</b>	<b>Duration of Visit</b>	<b>Number of Visitors</b>	<b>Group Name or # of Vessel or Aircraft</b>	<b>Purpose of Visit</b>
14 Jan 05	5.0 hours	145	<i>M/S Bremen</i>	Tourist
15 Jan 05	4.5 hours	111	<i>M/S Orion</i>	Tourist
18 Jan 05	4.0 hours	13	<i>S/Y Vaiberé</i>	Yacht
19 Jan 05	4.0 hours	5	<i>S/Y Zazie</i>	Yacht
21 Jan 05	3.5 hours	129	<i>M/S Clipper Adventurer</i>	Tourist
21 Jan 05	4.0 hours	72	<i>M/S Ushuaia</i>	Tourist
24 Jan 05	4.0 hours	10	<i>S/Y Sarah Vorwerk</i>	Yacht
22 Jan 05	1.0 hours	8	<i>S/Y Spirit of Sydney</i>	Yacht
26 Jan 05	4.0 hours	131	<i>M/S Endeavour</i>	Tourist
28 Jan 05	4.0 hours	88	<i>M/S Akademik Ioffe</i>	Tourist
29 Jan 05	6.0 hours	714	<i>SS Crystal Symphony</i>	Offshore Lecture
2 Feb 05	2.0 hours	51	<i>M/S Professor Multanovskiy</i>	Tourist
4 Feb 05	3.5 hours	108	<i>M/S Orion</i>	Tourist
10 Feb 05	5.0 hours	109	<i>M/S Clipper Adventurer</i>	Tourist
11 Feb 05	2.0 hours	21	<i>M/Y Lone Ranger</i>	Yacht
12 Feb 05	1.5 hours	5	<i>R/V Puerto Deseado</i>	Argentine Navy



<b>Date of Visit</b>	<b>Duration of Visit</b>	<b>Number of Visitors</b>	<b>Group Name or # of Vessel or Aircraft</b>	<b>Purpose of Visit</b>
17 Feb 05	4.0 hours	12	<i>S/Y Vaiberé</i>	Yacht
18 Feb 05	3.0 hours	10	<i>S/Y Sarah Vorwerk</i>	Yacht
21 Feb 05	2.5 hours	7	<i>ARA Suboficial Castillo</i>	Argentine Navy

