

## R/V NATHANIEL B. PALMER Cruise History

Port Key:

AUK=Auckland, New Zealand; BRW=Barrow, AK; CPT=Capetown, South Africa; COPA=Copacabana Field Camp, Antarctica; CS=Cape Sherriff, Antarctica; DH=Dutch Harbor, Alaska; EUR=Eureka, CA; FCH=Fourchon, LA; ICE=Ice Edge-McMurdo Station, Antarctica; LA=Los Angeles, CA; LYT=Lyttelton, New Zealand; HOB=Hobart, Tasmania; HON=Honolulu, HI; MCM=McMurdo Station, Antarctica; MVD=Montevideo, Uruguay; NAP=Napier, New Zealand; NOL=New Orleans, LA; PAL=Palmer Station, Antarctica; OAK=Oakland, CA; PAN=Panama; PMC=Puerto Montt, Chile; PNT=Puerto Natales, Chile; PPT=Tahiti, French Polynesia; PUQ=Punta Arenas, Chile; ROT=Rothera Base, Antarctica; SAMOA=Apia, Western Samoa; SAN=San Diego, CA; SBA=Santa Barbara, CA; SEA=Seattle, WA; SYD=Sydney, Australia; TAL=Talcahuano, Chile; VAL=Valparaiso, Chile

## **Contacting Principal Investigators:**

Each cruise's principal investigator and/or chief scientist is listed below. For e-mail addresses, and for links to the Antarctic Data Repository, please refer to the HTML version of the cruise history. For more in-depth contact information, mailing address, phone numbers, etc, please refer to the online version of the Science Planning Summaries

Where active or archived information is available, the researcher's website may be accessed by clicking the link in the Cruise Name field. Use BOOKMARKS to get to specific cruises by name/date.

Weddell-1 Rotation Cruise: Resupply/crew rotation of US-RUSSIA drifting ice camp Weddell Antarctic Data Repository for NBP92-01		Departure	PORT	Arrival	PORT
· ·	Doug Martinson	4/16/1992	PUQ	5/16/1992	PUQ
Antarctic Data Repository for NBP92-01					
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Weddell-1 Recovery Cruise: Joint cruise with A/K Akedemik Fedorov to	Arnold Gordon	5/20/1992	PUQ	6/22/1992	PUQ
recover US-RUSSIA drifting ice camp					
Antarctic Data Repository for NBP92-02					
	Huntley/RACER	7/11/1992	PUQ	8/17/1992	PUQ
Research on Antarctic Ecological Rates	nuntiey/RACER	7/11/1992	PUQ	0/17/1992	PUQ
Antarctic Data Repository for NBP92-04	1	0/00/4000	5116	0/40/4000	5110
Engineering Ice Trials	Voelker	8/23/1992	PUQ	9/13/1992	PUQ
	Ray Smith	9/18/1992	PUQ	10/16/1992	PUQ
Weddell Sea	S-032				
Antarctic Data Repository for NBP92-06					
Antarctic Bottom Water Formation	Ted Foster	10/22/1992	PUQ	12/3/1992	PUQ
Antarctic Data Repoitory for NBP92-07	S-206				
		12/13/1992	PUQ	1/29/1993	PUQ
	_	12, 13, 1332	I		
		2/4/1003	PLI∩	3/20/1003	PUQ
	•	2/4/1333	1 00	3/20/1993	1 00
		0/05/4000	DUC	E/4 E/4000	DUO
		3/25/1993	PUQ	5/15/1993	PUQ
http://www.icess.ucsb.edu					
	Dave Karl				
Antarctic Data Repository for NBP93-02	S-046				
Seabirds Feeding on Krill	Richard Veit	5/19/1993	PUQ	6/30/1993	PUQ
Antarctic Data Repository for NBP93-03					
	N/A	7/2/1993	PUQ	7/6/1993	TAL
	1471				PUQ
	Martin Jeffries				PUQ
		0/10/1000	100	3/00/1000	100
Aperture Nadar digitature in the Facility decide of the doublem decan	3-280				
Antarctic Data Repository for NRP93-05					
	Patrick Noalo	10/10/1003	DIIO	11/11/1003	PUQ
· · ·		10/10/1993	FUQ	11/11/1993	FUQ
Marginal Ice Zone					
A CONTRACTOR OF THE CONTRACTOR					
		12/4/1993	PUQ	1/18/1994	MCM
· · · · · · · · · · · · · · · · · · ·	S-088				
Antarctic Data Repository for NBP93-07					
Geologic Record of Late Wisconsin/Holocene Ice Sheet Advance and	John Anderson	1/21/1994	MCM	2/12/1994	MCM
Retreat from Ross Sea	S-083				
Antarctic Data Repository for NBP94-01					
Oceanography of the Amundsen and Bellingshausen Seas	Stan Jacobs	2/14/1994	MCM	4/5/1994	PUQ
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Antarctic Data Repository for NBP94-02	INI/A	1/21/100E	ואוטו		
Maintenance	N/A	4/24/1995	PUQ		PUQ
Maintenance Antarctic Zone Flux Experiment (ANZFLUX)	POC: Arlene Guest	4/24/1995 6/27/1994	PUQ	8/24/1994	PUQ
Maintenance	POC: Arlene Guest Miles McPhee				
Maintenance Antarctic Zone Flux Experiment (ANZFLUX)	POC: Arlene Guest Miles McPhee Steve Ackley				
Maintenance Antarctic Zone Flux Experiment (ANZFLUX)	POC: Arlene Guest Miles McPhee				
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Maintenance Antarctic Zone Flux Experiment (ANZFLUX)	POC: Arlene Guest Miles McPhee Steve Ackley Peter Guest				
Maintenance Antarctic Zone Flux Experiment (ANZFLUX)	POC: Arlene Guest Miles McPhee Steve Ackley Peter Guest Vicki Lytle Doug Martinson				
Maintenance Antarctic Zone Flux Experiment (ANZFLUX)	POC: Arlene Guest Miles McPhee Steve Ackley Peter Guest Vicki Lytle Doug Martinson Jamie Morison				
Maintenance Antarctic Zone Flux Experiment (ANZFLUX)	POC: Arlene Guest Miles McPhee Steve Ackley Peter Guest Vicki Lytle Doug Martinson				
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Record of Late Wisconsin/Holocene Ice Sheet Advance and	Tropic Coupling Between Mesopelagic and Sea-Ice Communities in the Weddell Sea Antarctic Data Repository for NBP92-06  Antarctic Data Repository for NBP92-07  Antarctic Data Repository for NBP92-07  Marie Byrd Margin: Early Seafloor Spreading History S-206  Marie Byrd Margin: Early Seafloor Spreading History Carol Raymond S-096  Marine Heat Flow Around West Antarctica Larry Lawver S-087  Long-Term Ecological Research on the Antarctic Marine Ecosystem (LTER): An Ice-Dominated Environment http://www.icess.ucsb.edu  Eileen Hofmann S-021  Dave Karl S-046  Seabirds Feeding on Krill Antarctic Data Repository for NBP93-02  Sea Ice Physics-Structural Characteristics, Development and Synthetic Aperture Radar Signature in the Pacific Sector of the Southern Ocean  Antarctic Data Repository for NBP93-05  Effects of UV Radiation on Phytoplankton Photosynthesis in the Antarctic Martin Jeffries S-007  Kenneth Mopper S-002  High Resolution 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The Role of Snow in the Antarctic Sea-Ice Atmosphere Energy Exchange Antarctic Data Repository for NBP95-03  NBP95-4  Seabeam Test #2  Antarctic Data Repository for NBP95-04  Maintenance  NBP95-5  The Role of Snow in the Antarctic Sea-Ice I Atmosphere Energy Exchange Antarctic Data Repository for NBP95-05  NBP95-6  NBP95-6  Seasonal Ice Cover and its Impact on Epip Northwestern Ross Sea: Long Time-Series Antarctic Data Repository for NBP95-06  NBP95-7  NBP95-7  NBP95-8  Collaborative Research on Bloom Dynamic the Ross Sea Antarctic Data Repository for NBP95-07  NBP95-8  Collaborative Research on Bloom Dynamic the Ross Sea Antarctic Data Repository for NBP95-08  NBP96-1  Glacial Marine Stratigraphy in the Eastern I Antarctic Data Repository for NBP96-01  NBP96-2  Late Cretaceous - Early Tertiary Interactior Antarctic Data Repository for NBP96-02  NBP96-3  World Ocean Circulation Experiment (WOC http://www-ocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03  NBP96-3A  Transit Antarctic Data Repository for NBP96-03A  NBP96-4  NBP96-4  JGOFS Site Survey http://www.whoi.edu/ Antarctic Data Repository for NBP96-04  NBP96-5  JGOFS Process I http://www.whoi.edu/ Antarctic Data Repository for NBP96-04  NBP96-6  ROAVERS (Research on Ocean-Atmosphe Response in the Ross Sea) Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II http://www.whoi.edu/ Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II http://www.whoi.edu/ Antarctic Data Repository for NBP96-06  NBP97-2  Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP97-01  NBP97-2  Late Creaceous III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02  JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-01  NBP97-3  JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-01	ses Land Coast of Antarctica	Ted Foster S-206	3/16/1995	LYT	4/27/1995	НОВ
NBP95-4 Seabeam Test #2 Antarctic Data Repository for NBP95-04  Maintenance  The Role of Snow in the Antarctic Sea-Ice I Atmosphere Energy Exchange Antarctic Data Repository for NBP95-05  NBP95-6 Seasonal Ice Cover and its Impact on Epip Northwestern Ross Sea: Long Time-Series Antarctic Data Repository for NBP95-06  NBP95-7 NBP95-7 NBP95-7 NBP95-8 Collaborative Research on Bloom Dynamic the Ross Sea Antarctic Data Repository for NBP95-08  NBP96-1 Glacial Marine Stratigraphy in the Eastern I Antarctic Data Repository for NBP96-01  NBP96-2 Late Cretaceous - Early Tertiary Interaction Antarctic Data Repository for NBP96-02  NBP96-3 NBP96-3 NBP96-3 NBP96-3 NBP96-4 NBP96-4 JGOFS Site Survey http://www.vocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03  NBP96-4 JGOFS Site Survey http://www.whoi.edu/Antarctic Data Repository for NBP96-04  NBP96-5 JGOFS Process I http://www.whoi.edu/Antarctic Data Repository for NBP96-05  NBP96-6 ROAVERS (Research on Ocean-Atmosphe Response in the Ross Sea) Antarctic Data Repository for NBP96-06  NBP97-1 JGOFS Process II http://www.whoi.edu/Antarctic Data Repository for NBP96-06  NBP97-2 Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP96-06  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP96-06  NBP97-2 NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02	Development and Ocean-	Martin Jeffries S-286	5/2/1995	НОВ	6/21/1995	LYT
The Role of Snow in the Antarctic Sea-Ice I Atmosphere Energy Exchange Antarctic Data Repository for NBP95-05  NBP95-6 Seasonal Ice Cover and its Impact on Epip Northwestern Ross Sea: Long Time-Series Antarctic Data Repository for NBP95-06  NBP95-7 Neotectonic Evolution of Antarctic Peninsul Antarctic Data Repository for NBP95-07  NBP95-8 Collaborative Research on Bloom Dynamic the Ross Sea Antarctic Data Repository for NBP95-08  NBP96-1 Glacial Marine Stratigraphy in the Eastern I Antarctic Data Repository for NBP96-01  NBP96-2 Late Cretaceous - Early Tertiary Interaction Antarctic Data Repository for NBP96-02  NBP96-3 World Ocean Circulation Experiment (WOC http://www-ocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03  NBP96-3A Transit Antarctic Data Repository for NBP96-03A  NBP96-4 JGOFS Site Survey http://www.whoi.edu/Antarctic Data Repository for NBP96-04  NBP96-4 JGOFS Mooring Deployment http://www.whoi.edu/Antarctic Data Repository for NBP96-04A  NBP96-5 JGOFS Mooring Deployment http://www.whoi.edu/Antarctic Data Repository for NBP96-05  NBP96-6 ROAVERS (Research on Ocean-Atmosphe Response in the Ross Sea) Antarctic Data Repository for NBP96-06  NBP97-1 JGOFS Process II http://www.whoi.edu/Antarctic Data Repository for NBP96-06  NBP97-1 JGOFS Process II http://www.whoi.edu/Antarctic Data Repository for NBP97-01  NBP97-2 Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02		N/A	7/1/1995	LYT	7/8/1995	AUK
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Seasonal Ice Cover and its Impact on Epip Northwestern Ross Sea: Long Time-Series Antarctic Data Repository for NBP95-06 NBP95-7 NBP95-7 NBP95-8 Collaborative Research on Bloom Dynamic the Ross Sea Antarctic Data Repository for NBP95-08 NBP96-1 Glacial Marine Stratigraphy in the Eastern Interaction Antarctic Data Repository for NBP96-01 NBP96-2 Late Cretaceous - Early Tertiary Interaction Antarctic Data Repository for NBP96-02 NBP96-3 World Ocean Circulation Experiment (WOC http://www-ocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03 NBP96-3A Transit Antarctic Data Repository for NBP96-03A NBP96-4 JGOFS Site Survey http://www.whoi.edu/Antarctic Data Repository for NBP96-04 NBP96-4A JGOFS Process Inttp://www.whoi.edu/Antarctic Data Repository for NBP96-05 NBP96-6 ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea) Antarctic Data Repository for NBP96-06 NBP97-1 JGOFS Process II http://www.whoi.edu/Antarctic Data Repository for NBP96-06 NBP97-2 Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP97-01 Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP97-02 NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02 NBP97-3 JGOFS Process III http://www.whoi.edu/Antarctic Data Repository for NBP97-02 NBP97-3 JGOFS Process III	Development and Ocean-	Martin Jeffries S-286	7/29/1995	LYT	9/17/1995	PUQ
Antarctic Data Repository for NBP95-07  NBP95-8  Collaborative Research on Bloom Dynamic the Ross Sea Antarctic Data Repository for NBP95-08  NBP96-1  Glacial Marine Stratigraphy in the Eastern of Antarctic Data Repository for NBP96-01  Late Cretaceous - Early Tertiary Interaction Antarctic Data Repository for NBP96-02  NBP96-3  World Ocean Circulation Experiment (WOC http://www-ocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03  NBP96-3A  Transit Antarctic Data Repository for NBP96-03A  NBP96-4  JGOFS Site Survey http://www.whoi.edu/ Antarctic Data Repository for NBP96-04  NBP96-4  JGOFS Process I http://www.whoi.edu/ Antarctic Data Repository for NBP96-04A  NBP96-5  JGOFS Mooring Deployment http://www.whoi.edu/ Antarctic Data Repository for NBP96-05  ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea) Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II http://www.whoi.edu/ Antarctic Data Repository for NBP97-01  Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02		Ken Smith S-050	9/22/1995	PUQ	10/22/1995	PUQ
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Antarctic Data Repository for NBP96-01 NBP96-2 Late Cretaceous - Early Tertiary Interaction Antarctic Data Repository for NBP96-02 NBP96-3 World Ocean Circulation Experiment (WOC http://www-ocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03 NBP96-3A Transit Antarctic Data Repository for NBP96-03A NBP96-4 JGOFS Site Survey http://www.whoi.edu/ Antarctic Data Repository for NBP96-04 NBP96-4A JGOFS Process I http://www.whoi.edu/ Antarctic Data Repository for NBP96-04A NBP96-5 JGOFS Mooring Deployment http://www.whoi.edu/ Antarctic Data Repository for NBP96-05 NBP96-6 ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea) Antarctic Data Repository for NBP96-06 NBP97-1 JGOFS Process II http://www.whoi.edu/ Antarctic Data Repository for NBP97-01 NBP97-2 Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP97-02 NBP97-3 JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02 NBP97-3 JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02	s and Food Web Structure in	Dave Garrison S-325	12/11/1995	LYT	1/17/1996	МСМ
NBP96-2 Late Cretaceous - Early Tertiary Interaction Antarctic Data Repository for NBP96-02 NBP96-3 World Ocean Circulation Experiment (WOC http://www-ocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03 NBP96-3A Transit Antarctic Data Repository for NBP96-03A NBP96-4 JGOFS Site Survey http://www.whoi.edu/ Antarctic Data Repository for NBP96-04 NBP96-4A JGOFS Process I http://www.whoi.edu/ Antarctic Data Repository for NBP96-04A NBP96-5 JGOFS Mooring Deployment http://www.whoi.edu/ Antarctic Data Repository for NBP96-05 NBP96-6 ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea) Antarctic Data Repository for NBP96-06 NBP97-1 JGOFS Process II http://www.whoi.edu/ Antarctic Data Repository for NBP97-01 NBP97-2 Early Tertiary Evolution of the Pacific-Austr Antarctic Data Repository for NBP97-02 NBP97-3 JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02	Ross Sea and Western Marie	Lou Bartek Bruce Luyendyk S-088	1/21/1996	МСМ	2/20/1996	MCM
NBP96-3 World Ocean Circulation Experiment (WOC http://www-ocean.tamu.edu/WOCE/uswoce Antarctic Data Repository for NBP96-03 NBP96-3A Transit Antarctic Data Repository for NBP96-03A NBP96-4 JGOFS Site Survey http://www.whoi.edu/ Antarctic Data Repository for NBP96-04 NBP96-4A JGOFS Process I http://www.whoi.edu/ Antarctic Data Repository for NBP96-04A NBP96-5 JGOFS Mooring Deployment http://www.whoi.edu/ Antarctic Data Repository for NBP96-05 NBP96-6 ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea) Antarctic Data Repository for NBP96-06 NBP97-1 JGOFS Process II http://www.whoi.edu/ Antarctic Data Repository for NBP97-01 NBP97-2 Early Tertiary Evolution of the Pacific-Austrantic Data Repository for NBP97-02 NBP97-3 JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02 NBP97-3 JGOFS Process III http://www.whoi.edu/ Antarctic Data Repository for NBP97-02	s in the South Pacific	Steve Cande S-071	2/22/1996	МСМ	4/7/1996	PUQ
NBP96-3A  Transit  Antarctic Data Repository for NBP96-03A  NBP96-4  JGOFS Site Survey  http://www.whoi.edu/  Antarctic Data Repository for NBP96-04  NBP96-4A  JGOFS Process I  http://www.whoi.edu/  Antarctic Data Repository for NBP96-04A  NBP96-5  JGOFS Mooring Deployment  http://www.whoi.edu/  Antarctic Data Repository for NBP96-05  NBP96-6  ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea)  Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II  http://www.whoi.edu/ Antarctic Data Repository for NBP97-01  NBP97-2  Early Tertiary Evolution of the Pacific-Austr  Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III  http://www.whoi.edu/ Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III  http://www.whoi.edu/ Antarctic Data Repository for NBP97-03	•	WOCE S-229	5/3/1996	CPT	7/4/1996	НОВ
NBP96-4  JGOFS Site Survey  http://www.whoi.edu/ Antarctic Data Repository for NBP96-04  NBP96-4A  JGOFS Process I  http://www.whoi.edu/ Antarctic Data Repository for NBP96-04A  NBP96-5  JGOFS Mooring Deployment  http://www.whoi.edu/ Antarctic Data Repository for NBP96-05  NBP96-6  ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea) Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II  http://www.whoi.edu/ Antarctic Data Repository for NBP97-01  NBP97-2  Early Tertiary Evolution of the Pacific-Austr  Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III  http://www.whoi.edu/ Antarctic Data Repository for NBP97-03		N/A	8/19/1996	НОВ	8/25/1996	LYT
NBP96-4A  JGOFS Process I  http://www.whoi.edu/ Antarctic Data Repository for NBP96-04A  NBP96-5  JGOFS Mooring Deployment  http://www.whoi.edu/ Antarctic Data Repository for NBP96-05  NBP96-6  ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea) Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II  http://www.whoi.edu/ Antarctic Data Repository for NBP97-01  NBP97-2  Early Tertiary Evolution of the Pacific-Austr  Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III  http://www.whoi.edu/ Antarctic Data Repository for NBP97-03		Bob Anderson S-211	8/30/1996	LYT	9/24/1996	LYT
NBP96-5  JGOFS Mooring Deployment <a href="http://www.whoi.edu/">http://www.whoi.edu/</a> Antarctic Data Repository for NBP96-05  NBP96-6  ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea)  Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II <a href="http://www.whoi.edu/">http://www.whoi.edu/</a> Antarctic Data Repository for NBP97-01  NBP97-2  Early Tertiary Evolution of the Pacific-Austre Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III <a href="http://www.whoi.edu/">http://www.whoi.edu/</a> Antarctic Data Repository for NBP97-03		Walker Smith S-233; S-255	10/2/1996	LYT	11/8/1996	Ice Edge
ROAVERS (Research on Ocean-Atmospher Response in the Ross Sea)  Antarctic Data Repository for NBP96-06  NBP97-1  JGOFS Process II  http://www.whoi.edu/ Antarctic Data Repository for NBP97-01  RBP97-2  Early Tertiary Evolution of the Pacific-Austr  Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III  http://www.whoi.edu/ Antarctic Data Repository for NBP97-03		Jack Dymond S-227	11/11/1996	Ice Edge	11/30/1996	LYT
NBP97-1  JGOFS Process II <a href="http://www.whoi.edu/">http://www.whoi.edu/</a> Antarctic Data Repository for NBP97-01  NBP97-2  Early Tertiary Evolution of the Pacific-Austr  Antarctic Data Repository for NBP97-02  NBP97-3  JGOFS Process III <a href="http://www.whoi.edu/">http://www.whoi.edu/</a> Antarctic Data Repository for NBP97-03	ere Variability and Ecosystem	Rob Dunbar S-216	12/11/1996	LYT	1/8/1997	МСМ
NBP97-2 Early Tertiary Evolution of the Pacific-Austr  Antarctic Data Repository for NBP97-02  NBP97-3 JGOFS Process III  http://www.whoi.edu/ Antarctic Data Repository for NBP97-03		John Marra S-232	1/13/1997	МСМ	2/11/1997	МСМ
NBP97-3 JGOFS Process III  http://www.whoi.edu/ Antarctic Data Repository for NBP97-03	alian-Antarctic Plate Circuit	Steve Cande S-071	2/15/1997	МСМ	3/24/1997	LYT
		Hugh Ducklow S-244	4/4/1997	LYT	5/11/1997	LYT
NBP97-4 Multibeam Sea Test Antarctic Data Repository for NBP97-04		N/A	5/15/1997	LYT	5/20/1997	AUK
NBP97-4A Transit		N/A	5/20/1997	AUK	6/7/1997	TAL

ruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
3P97-4B	Transit (Talchuano-Punta Arenas, Chile+B130)	N/A		TAL	7/25/1997	PUQ
	Antarctic Data Repository for NBP97-04B					
3P97-5	DOVETAIL I & II	Arnold Gordon	8/1/1997	PUQ	9/6/1997	PUQ
	http://www.esr.org/dovetail/dovetail.html	Robin Muench				
	Antarctic Data Repository for NBP97-05	S-203				
BP97-6A	Palmer Station Shuttle	N/A	9/14/1997	PUQ	9/24/1997	PUQ
	Antarctic Data Repository for NBP97-06A					
IBP97-6B	Palmer Station Shuttle	N/A	9/27/1997	PUQ	10/4/1997	PUQ
D. 07 0D	Antarctic Data Repository for NBP97-06B		0,21,1001	. 00	10/1/1007	100
IBP97-7	Transit (PA-Lyttelton)	N/A	10/9/1997	PUQ	10/28/1997	LYT
DI 37 7	Antarctic Data Repository for NBP97-07		10/3/1337	100	10/20/1007	
BP97-8	JGOFS Process IV	Walker Smith	11/5/1997	LYT	12/14/1997	Ice edge
DI 37 0	Antarctic Data Repository for NBP97-08	S-233; S-255	11/3/1337		12/14/1337	loc cage
BP97-9	ROAVERRS (Research on Ocean-Atmosphere Variability & Ecosystem	Rob Dunbar	12/20/1997	MCM	1/10/1998	MCM
DF 97-9	Response in the Ross Sea)	S-216	12/20/1997	IVICIVI	1/10/1990	IVICIVI
	Antarctic Data Repository for NBP97-09	3-210				
BP98-1	Timing of Retreat of the West Antarctic Ice Sheet	John Anderson	1/16/1998	MCM	2/19/1998	MCM
DL 20-1	Antarctic Data Repository for NBP98-01	S-083	1/10/1990	IVICIVI	2/13/1330	IVICIVI
BP98-2		Bob Anderson	2/25/1998	MCM	4/3/1998	LYT
DP90-2	JGOFS Benthic/Mooring Recovery		2/25/1996	IVICIVI	4/3/1996	LII
	http://www.whoi.edu/	S-211				
	Antarctic Data Repository for NBP98-02		= /4 /4 000		0/00/4000	
BP98-3	Sea Ice Motion, Deformation and Thickness Distribution in the Ross Sea	Martin Jeffries	5/1/1998	LYT	6/20/1998	LYT
	combined with Ecological Studies of Sea-Ice Communities in the Ross Sea					
		Dave Garrison				
	Antarctic Data Repository for NBP98-03	S-325				
BP98-4	Transit to PUQ	N/A	6/20/1998	LYT	7/20/1998	PUQ
	Antarctic Data Repository for NBP98-04					
BP98-5	Transit to Seattle, WA	N/A	7/25/1998	PUQ	8/19/1998	SEA
	Antarctic Data Repository for NBP98-05					
BP98-6	Transit to Honolulu, HI	N/A	9/19/1998	SEA	9/29/1998	HON
	Antarctic Data Repository for NBP98-06					
BP98-6A		N/A	10/3/1998	HON	10/13/1998	SAMOA
	Antarctic Data Repository for NBP98-06A					
BP98-6B	Transit to LYT	N/A	10/13/1998	SAMOA	10/26/1998	LYT
	Antarctic Data Repository for NBP98-06B					
IBP98-7	ROAVERRS (Research on Ocean-Atmosphere Variability and Ecosystem	Rob Dunbar	11/2/1998	LYT	12/20/1998	LYT
	Response in the Ross Sea)	OR-216-A				
	Antarctic Data Repository for NBP98-07					
IBP99-1	Protistan Biodiversity in Antarctic Marine Ecosystems: Molecular Biological	David Caron	12/26/1998	LYT	2/7/1999	MCM
	and Traditional Approaches	BO-207-O				
	Sea Ice Motion, Deformation and Thickness Distribution in the Ross Sea	Martin Jeffries				
	combined with Ecological Studies of Sea-Ice Communities in the Ross Sea	OX-286-O				
	Ecological Studies of Sea-Ice Communities in the Ross Sea, Antarctica	Marcia Gowing				
		BX-325-O				
	Antarctic Data Repository for NBP99-01					
BP99-2	Timing of Retreat of the West Antarctic Ice Sheet	John Anderson	2/12/1999	MCM	3/25/1999	PUQ
	Antarctic Data Repository for NBP99-02	GO-083-O				
BP99-3	Palmer Deep, Andvord Bay and Lallemand Fjord Geology and Geophysics	Eugene Domack	3/28/1999	PUQ	4/5/1999	PAL
	Studies	GO-072-O	1.25, .000		4/11/1999	PUQ
			-		,	
BP99-4	Antarctic Data Repository for NBP99-03  Heat and Chemical Exchange During the Early Stages of Back-Arc Rifting	Gary Klinkhammer	4/15/1999	PUQ	5/10/1999	PUQ

Antarctic Data Repository for NBP99-04

Cruise # NBP99-5	CRUISES by NAME	Pls Douglas Wiens	Departure 5/13/1999	PORT	Arrival	PORT
NDT44-5	A Broadband Seismic Experiment for Study of the Tectonics and Structure of the Antarctic Peninsula and Scotia Plate	Douglas Wiens GO-097-O	5/13/1999	PUQ	6/2/1999	Brief COPA Call
	Study of the Structure and Tectonics in the Bransfield Strait Area	LeRoy Dorman	6/2/1999	COPA	6/6/1999	PUQ
	Antarctic Data Repository for NBP99-05	GO-135-O				
BP99-6	Long-Term Ecological Research on the Antarctic Marine Ecosystem	William Fraser	6/11/1999	PUQ	7/16/1999	PUQ
	(LTER): An Ice-Dominated Environment Ice Cruise	BP-013-N				
	http://www.icess.ucsb.edu	Maria Vernet				
		BP-016-N Doug Martinson				
		BP-021				
		Langdon Quetin &				
		Robin Ross				
		BP-028-N				
		Ray Smith				
		BP-032-N				
	Antonotic Data Danagitam for NDD00 00	Dave Karl				
NBP99-7	Antarctic Data Repository for NBP99-06  Transit from Punta Arenas to TAL for Maintenance Period	BP-046-N N/A	7/21/1999	PUQ	7/26/1999	TAL
NBP99-8	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande	8/17/1999	TAL	9/8/1999	LYT
101 00 0	Eate Grotaceous and Genezolo Negoristraduons of the Godinwest Fability	GO-071	0/1//1000		0/0/1000	
	Antarctic Data Repository for NBP99-08					
Open Period	Open Period through Dec. 22, 1999	N/A	9/8/1999	LYT	12/20/1999	LYT
NBP99-9	Antarctic Pack Ice Seals	John Bengston	12/20/1999	LYT	2/10/2000	MCM
	http://nmml.afsc.noaa.gov/apis/apis.htm	BE-198-A				
IDDOO 4	Antarctic Data Repository for NBP99-09	Otomboo In I	0/45/0000	NACNA	0/04/0000	DUO
NBP00-1	Study of the Circumpolar Deep Water and its Affects on the West Antarctic Ice Sheet and Pine Island Glacier	Stanley Jacobs OO-274-O	2/15/2000	MCM	3/31/2000	PUQ
	Glacial History of the Amundsen Sea Shelf	Tom Kellogg				
	Antarctic Data Repository for NBP00-01	GO-307-O				
NBP00-2	The Young Marginal Rift as a Key to Understanding the Rift-Drift Transition		4/5/2000	PUQ	5/6/2000	PUQ
	and Andean Orogenesis: OBS Refraction Profiling for Crustal Structure in	GO-306-O				
	the Bransfield Strait					
UDDOO O	Antarctic Data Repository for NBP00-02	Funera Damasi	F/40/0055	DUIC	0/4/0000	DUIG
NBP00-3	Prehistory of the Larsen Ice Shelf: Evidence from the Marine Record	Eugene Domack	5/10/2000	PUQ	6/1/2000	PUQ
	Antarctic Data Repository for NBP00-03	GO-096-O				
NBP00-4	Bentho-Pelagic Coupling on the West Antarctic Shelf: The Impact and Fate	Craig Smith	6/5/2000	PUQ	6/24/2000	PUQ
NDI 00-4	of Bloom Material on the Seafloor	BO-303-O	0/3/2000	100	0/24/2000	100
		David Demaster				
	Antarctic Data Repository for NBP00-04	BO-313-O				
NBP00-5	Palmer Station Hazardous Waste Pickup from Palmer Station, Antarctica	N/A	7/3/2000	PUQ	7/7/2000	PAL
			7/11/2000	PAL	7/15/2000	PUQ
NDD00.CA	Antarctic Data Repository for NBP00-05	Maria Informa	7/40/0000	DUO	0/40/0000	FOLL
NBP00-6A	Hazardous Waste Transport to Louisiana & "Science of Opportunity" cruise in support of BO-200-O	Wade Jeffrey BO-200-O	7/19/2000	PUQ	8/12/2000	FCH
	Antarctic Data Repository for NBP00-06A	BO-200-O				
Open Period	Seismic System and SeaBeam Sea Trials Preparation NASB/ECO	N/A	9/3/2000	FCH	At	FCH
	Vessel Modifications Begins		0,0,00			
NBP00-6B	Acoustic Trials Conducted for USAP Research Vessel- Icebreaker Re-bid.	N/A	9/3/2000	FCH	9/5/2000	NOL
	ARVOC Meeting also held in New Orleans		9/9/2000	FCH	9/10/2000	FCH
Open Period	Seismic System and SeaBeam Sea Trials Preparation NASB/ECO	N/A	9/25/2000	FCH	At	FCH
NDD00 00	Vessel Modifications Continue	N/A	0/05/0000	FOLI	40/4/0000	DANI
NBP00-6C	Seismic System and SeaBeam Sea Trials Antarctic Data Repository for NBP00-06C	N/A	9/25/2000	FCH	10/4/2000	PAN
NBP00-6D	Transit to Punta Arenas, Chile	N/A	10/5/2000	PAN	10/22/2000	PUQ
55 55	Antarctic Data Repository for NBP00-06D		. 3/3/2000	[ <b>.</b>	. 5,22,2000	
NBP00-7A	The Young Marginal Rift as a Key to Understanding the Rift-Drift Transition	Jamie Austin	10/27/2000	PUQ	11/18/2000	PUQ
	and Andean Orogenesis: OBS Refraction Profiling for Crustal Structure in	GO-306-O				
	the Bransfield Strait					
VIDBOG 75	Antarctic Data Repository for NBP00-07A	00000	44404000	DUIC	10/11/25	11.75
NBP00-7B	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande GO-071-O	11/19/2000		12/11/2000	LYT
	Antarctic Data Repository for NBP00-07B	1-U	12/12/2000	LYI	12/17/2000	HOB
NBP00-8	Shelf and Bottom Water Formation Near East Antarctic Polynyas and	Richard Fairbanks	12/20/2000	НОВ	1/25/2001	HOB
55 5	Glaciers	OO-225-O	, _ 3, _ 3, _ 3			
	Circumpolar Deep Water and the West Antarctic Ice Sheet	Stan Jacobs				
	Antarctic Data Repository for NBP00-08	00-274-0				
NBP01-1	Quarternary Glacial History and Paleoenvironments of the East Antarctic	Amy Leventer	1/30/2001	НОВ	3/28/2001	CPT
	Margin	GO-073-O				
	POC Production and Export in the Indian Sector of the Southern Ocean:	Cynthia Pilskaln OO-278-O				
	(mooring recovery) Antarctic Data Repository for NBP01-01	JU-210-U				
NBP01-2	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Joann Stock	4/1/2001	CPT	4/18/2001	PUQ
- · <b>-</b>	2.5 2.5 2.5 2.5 2.5 1.	GO-071-O				
	Antarctic Data Repository for NBP01-02	<u> </u>				
NBP01-3	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC):	Robert Beardsley	4/23/2001	PUQ	6/6/2001	PUQ
	Circulation and Water Property Evolution	OG-231-O				
	SO GLOBEC: Water-column nutrient analysis	Kent Fanning				
	OO OLODEO, Margaria Milata A	OG-233-O				
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West	John Hildebrand BG-239-O				
	Antarctic Project Area					
	SO GLOBEC: Hydrographic modeling, both biological and physical	Eileen Hofmann				

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
	SO GLOBEC: Seabird distribution and abundance	Chris Ribic				
	SO GLOBEC: Water-column phytoplankton primary productivity	BG-243-O Maria Vernet				
		BG-246-O				
	SO GLOBEC: Zooplankton distribution, abundance in the water column	Peter Wiebe				
	and sea-ice/water column boundary http://www.ccpo.odu.edu/Research/globec_menu.html	BG-247-O				
	Antarctic Data Repository for NBP01-03					
BP01-4	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC):	Robert Beardsley OG-231-O	7/21/2001	PUQ	8/31/2001	PUQ
	Circulation and Water Property Evolution SO GLOBEC: Water-column nutrient analysis	Kent Fanning				
	GO GEOBEO. Water commitment analysis	OG-233-O				
	SO GLOBEC: Winter distribution and activities of sea-ice microbial	Chris Fritsen				
	communities in the western Antarctic peninsula	BG-235-O				
	SO GLOBEC: Krill distribution, physiology, and predations; Copepod prey abundance	Kendra Daly BG-236-O				
	SO GLOBEC: Mesoscale Circulation, Tides, and Mixing	Laurence Padman				
		OG-238-O				
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area	John Hildebrand BG-239-O				
	SO GLOBEC: Hydrographic modeling, both biological and physical	Eileen Hofmann				
		OG-240-O				
	SO GLOBEC: Small scale mixing and krill behavior study using	Tom Powell				
	microstructure profiling/krill swarm model	OG-242-O				
	SO GLOBEC: Seabird distribution and abundance	Chris Ribic BG-243-O				
	SO GLOBEC: Water-column phytoplankton primary productivity	Maria Vernet				
	2 22222. Tato. Cola phytopianicon printary productivity	BG-246-O				
	SO GLOBEC: Zooplankton distribution, abundance in the water column	Peter Wiebe				
	and sea-ice/water column boundary	BG-247-O				
	SO GLOBEC: Krill distributions, physiology and predation; Copepod Prey Abundance	Meng Zhou BG-248-O				
	http://www.ccpo.odu.edu/Research/globec_menu.html	DO-240-0				
	Antarctic Data Repository for NBP01-04					
BP01-5	Long-Term Ecological Research on the Antarctic Marine Ecosystem	William Fraser	9/7/2001	PUQ	10/26/2001	PUQ
	(LTER): An Ice-Dominated Environment	BP-013-N				
	http://www.icess.ucsb.edu	Maria Vernet BP-016-N				
		Doug Martinson				
		BP-021-N				
		Langdon Quetin &				
		Robin Ross				
		BP-028-N Ray Smith				
		BP-032-N				
		Dave Karl				
Section 1	Antarctic Data Repository for NBP01-05	BP-046-N	40/07/0004	A C DUI O	44/0/0004	A DUO
pen Period BP01-6	Acquisition and Operation of Broadband Seismograph Equipment at	N/A Doug Wiens	10/27/2001 11/9/2001	PUQ	11/8/2001 11/13/2001	At PUQ PAL
2. 0. 0	Chilean Bases in the Antarctic Peninsula Region	GO-097-O	11/13/2001	· ·	11/15/2001	CS
			11/15/2001	CS	11/30/2001	PUQ
	http://levee.wustl.edu/seismology/SEPA/					
	CORC-Arches	Martin Visbeck				
	Open Cape Sherriff Field Camp	00-124-0				
	Antarctic Data Repository for NBP01-06			<u> </u>		
BP01-7	Global Climate Change and the Evolutionary Ecology of Antarctic Mollusks		12/5/2001	PUQ	1/13/2002	PUQ
	in the Late Eocene  Development of a Lyminescence Dating Capability for Antarctic	GO-065-O				
	Development of a Luminescence Dating Capability for Antarctic Glaciomarine Sediments: Tests of Signal Zeroing at the Antarctic Peninsula	Glenn Berger GO-092-O				
	2.2.2					
	Antarctic Data Repository for NBP01-07					
BP02-1	Late Pleistocene to Holocene Glacial History of West Antarctica	John Anderson	1/18/2002	PUQ	3/4/2002	PUQ
BP02-1A	Antarctic Data Repository for NBP02-01  Open Period	GO-083-O NA	3/5/2002	At PUQ	3/9/2002	At PUQ
BP02-1A BP02-1B	Open Period Seismic Streamer Sea Trials	NA NA	3/5/2002	PUQ PUQ	3/9/2002	PUQ
	Antarctic Data Repository for NBP02-01B		5/ 15/2502	<u> </u>		
BP02-1C	Open Period	NA		At PUQ	4/8/2002	At PUQ
3P02-2	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC):	Robert Beardsley	4/9/2002	PUQ	5/21/2002	PUQ
	Circulation and Water Property Evolution SO GLOBEC: Water-column nutrient analysis	OG-231-O Kent Fanning				
	SS SESSES. Water column nutrient analysis	OG-233-O				
	SO GLOBEC: Krill distribution, physiology, and predations; Copepod prey	Kendra Daly				
	abundance	BG-236-O				
	SO GLOBEC: Mesoscale Circulation, Tides, and Mixing	Laurence Padman				
	o o o o o o o o o o o o o o o o o o o	OG-238-O				
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West	John Hildebrand				
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area					
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West	John Hildebrand BG-239-O				
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area	John Hildebrand BG-239-O Eileen Hofmann				

	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
	SO GLOBEC: Water-column phytoplankton primary productivity	Maria Vernet				
	SO GLOBEC: Zooplankton distribution, abundance in the water column	BG-246-O Peter Wiebe				
	and sea-ice/water column boundary	BG-247-O				
	http://www.ccpo.odu.edu/Research/globec_menu.html					
UDD0000	Antarctic Data Repository for NBP02-02	1	= 10 = 10 =	DUG		1
NBP02-3	Dry Dock and Maintenance Period	NA	5/25/2002 7/15/2002	PUQ TAL	5/30/2002 7/19/2002	TAL PMC
	Antarctic Data Repository for NBP02-03		7/13/2002	PMC	7/19/2002	PUQ
NBP02-4	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC):	Robert Beardsley	7/31/2002	PUQ	9/18/2002	PUQ
	Circulation and Water Property Evolution	OG-231-O				
	SO GLOBEC: Water-column nutrient analysis	Kent Fanning				
	SO GLOBEC: Winter distribution and activities of sea-ice microbial	OG-233-O Chris Fritsen				
	communities in the western Antarctic peninsula	BG-235-O				
	SO GLOBEC: Krill distribution, physiology, and predations; Copepod prey	Kendra Daly				
	abundance	BG-236-O				
	SO GLOBEC: Mesoscale Circulation, Tides, and Mixing	Laurence Padman OG-238-O				
	SO GLOBEC: Hydrographic modeling, both biological and physical	Eileen Hofmann				
	go en	OG-240-O				
	SO GLOBEC: Seabird distribution and abundance	Chris Ribic				
		BG-243-O				
	SO GLOBEC: Krill Physiology and Fish Ecology	Jose Torres BG-245-O				
	SO GLOBEC: Water-column phytoplankton primary productivity	Maria Vernet				
	provide the provid	BG-246-O				
	SO GLOBEC: Zooplankton distribution, abundance in the water column	Peter Wiebe				
	and sea-ice/water column boundary	BG-247-O				
	SO GLOBEC: Krill distributions, physiology and predation; Copepod Prey Abundance	Meng Zhou BG-248-O				
	http://www.ccpo.odu.edu/Research/globec_menu.html					
	Antarctic Data Repository for NBP02-04					
NBP02-5	Latitudinal Effects of UVR on bacterioplankton: BRIDE of TABASCO	Wade Jeffrey		PUQ	9/29/2002	VAL
	Antarctic Data Repository for NBP02-05	BO-200-O	9/29/2002	VAL	10/19/2002	SAN
NBP02-5a	Maintenance Period	NA	10/19/2002	At SAN	10/28/2002	At SAN
NBP02-6	Seismic System Testing	NA	10/29/2002		11/3/2002	At Sea-LA
	Antarctic Data Repository for NBP02-06					
NBP02-6a	Simrad multibeam and dynamic position test/Coring Antarctic Data Repository for NBP02-06A	NA		At Sea-LA At Sea-SBA	11/6/2002 11/8/2002	At Sea-SBA PTH
NBP02-7	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande	11/0/2002		12/6/2002	LYT
		Joann Stock				
		GO-071-O				
NBP02-8	Antarctic Data Repository for NBP02-07  Open Period	NA	12/6/2002	At LYT	12/11/2002	At LYT
NBP02-9	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Joann Stock	12/12/2002		1/1/2003	MCM
		Steve Cande				
	Antarctic Data Repository for NBP02-09	GO-071-O				
NBP03-1	Collaborative Research: Antarctic Cretaceous-Cenozoic Climate,	Lou Bartek	1/5/2003	MCM/Ice Edge	1/30/2003	MCM
	·	Bruco Luvondula			1/30/2003	
	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the	Bruce Luyendyk GO-152-O			1/30/2003	
	·	Bruce Luyendyk GO-152-O			1/30/2003	
NBP03-1a	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the	GO-152-O Phil Bart	2/2/2003	MCM/Ice Edge		MCM/Ice Edge
NBP03-1a	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene	GO-152-O	2/2/2003	MCM/Ice Edge		MCM/Ice Edge
	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A	Phil Bart GO-154-O		J	2/20/2003	
	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and	Phil Bart GO-154-O Walker Smith	2/2/2003	MCM/Ice Edge MCM/Ice Edge		
	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A	Phil Bart GO-154-O		J	2/20/2003	
	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)	Phil Bart GO-154-O Walker Smith Vern Asper		J	2/20/2003	
NBP03-1b	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B	Phil Bart GO-154-O Walker Smith Vern Asper BO-047-O	2/20/2003	MCM/Ice Edge	2/20/2003 2/22/2003	MCM/Ice Edge
NBP03-1b NBP03-2	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon		J	2/20/2003 2/22/2003	
NBP03-1a  NBP03-1b  NBP03-2 ANSLOPE I	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)	Phil Bart GO-154-O Walker Smith Vern Asper BO-047-O	2/20/2003	MCM/Ice Edge	2/20/2003 2/22/2003	MCM/Ice Edge
NBP03-1b NBP03-2	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon	2/20/2003	MCM/Ice Edge	2/20/2003 2/22/2003	MCM/Ice Edge
NBP03-1b  NBP03-2 ANSLOPE I	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA	2/20/2003 2/25/2003 4/13/2003	MCM/Ice Edge  MCM/Ice Edge	2/20/2003 2/22/2003 4/9/2003	MCM/Ice Edge
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA Steve Cande	2/20/2003 2/25/2003 4/13/2003 5/23/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003	MCM/Ice Edge  LYT  At LYT  HON
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4 Northbound	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock	2/20/2003 2/25/2003 4/13/2003 5/23/2003	MCM/Ice Edge  MCM/Ice Edge	2/20/2003 2/22/2003 4/9/2003	MCM/Ice Edge
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4 Northbound transit to AK	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O	2/20/2003 2/25/2003 4/13/2003 5/23/2003 6/24/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003 7/2/2003	MCM/Ice Edge  LYT  At LYT  HON DH
NBP03-1b  NBP03-2  ANSLOPE I  NBP03-3  NBP03-4  Northbound transit to AK  NBP03-4A	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific  Antarctic Data Repository for NBP03-04	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock	2/20/2003 2/25/2003 4/13/2003 5/23/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003	MCM/Ice Edge  LYT  At LYT  HON
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4 Northbound transit to AK NBP03-4A Arctic Cruise	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific  Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction  http://nsidc.org/arcss/projects/sbi.html  Antarctic Data Repository for NBP03-04A	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O Jim Swift O-287-N	2/20/2003 2/25/2003 2/25/2003 4/13/2003 5/23/2003 6/24/2003 7/5/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON  DH	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003 7/2/2003 8/18/2003	MCM/Ice Edge  LYT  At LYT  HON DH  BRW
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4 Northbound transit to AK NBP03-4A Arctic Cruise	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction  http://nsidc.org/arcss/projects/sbi.html  Antarctic Data Repository for NBP03-04A  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific-	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O Jim Swift O-287-N  Steve Cande	2/20/2003 2/25/2003 2/25/2003 4/13/2003 5/23/2003 6/24/2003 7/5/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON  DH  BRW	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003 7/2/2003 8/18/2003	MCM/Ice Edge  LYT  At LYT  HON DH  BRW
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4 Northbound transit to AK NBP03-4A Arctic Cruise	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific  Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction  http://nsidc.org/arcss/projects/sbi.html  Antarctic Data Repository for NBP03-04A	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O  Jim Swift O-287-N  Steve Cande Joann Stock	2/20/2003 2/25/2003 2/25/2003 4/13/2003 5/23/2003 6/24/2003 7/5/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON  DH	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003 7/2/2003 8/18/2003	MCM/Ice Edge  LYT  At LYT  HON DH  BRW
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4 Northbound transit to AK NBP03-4A Arctic Cruise	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variabiity in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific  Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction  http://nsidc.org/arcss/projects/sbi.html  Antarctic Data Repository for NBP03-04A  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific-Began on 8/30/2003	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O  Jim Swift O-287-N  Steve Cande Joann Stock GO-071-O	2/20/2003 2/25/2003 2/25/2003 4/13/2003 5/23/2003 6/24/2003 7/5/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON  DH  BRW	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003 7/2/2003 8/18/2003	MCM/Ice Edge  LYT  At LYT  HON DH  BRW
NBP03-1b  NBP03-2 ANSLOPE I  NBP03-3 NBP03-4 Northbound transit to AK NBP03-4A Arctic Cruise	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction  http://nsidc.org/arcss/projects/sbi.html  Antarctic Data Repository for NBP03-04A  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific-	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O  Jim Swift O-287-N  Steve Cande Joann Stock	2/20/2003 2/25/2003 2/25/2003 4/13/2003 5/23/2003 6/24/2003 7/5/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON  DH  BRW	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003 7/2/2003 8/18/2003	MCM/Ice Edge  LYT  At LYT  HON DH  BRW
NBP03-1b  NBP03-2  ANSLOPE I  NBP03-3  NBP03-4  Northbound transit to AK  NBP03-4A  Arctic Cruise	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf  Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene  Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS)  Mooring Recovery Support- USCG cutter not available as originally planned  Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE)  http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml  Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction  http://nsidc.org/arcss/projects/sbi.html  Antarctic Data Repository for NBP03-04A  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific-Began on 8/30/2003  Production Observation Through Another Translatitudinal Oceanic	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O Jim Swift O-287-N  Steve Cande Joann Stock GO-071-O Wade Jeffrey BO-200-N Steve Cande	2/20/2003 2/25/2003 2/25/2003 4/13/2003 5/23/2003 6/24/2003 7/5/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON  DH  BRW	2/20/2003 2/22/2003 4/9/2003 5/13/2003 6/11/2003 7/2/2003 8/18/2003	MCM/Ice Edge  LYT  At LYT  HON DH  BRW
NBP03-1b NBP03-2	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS) Mooring Recovery Support- USCG cutter not available as originally planned Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE) http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction http://nsidc.org/arcss/projects/sbi.html Antarctic Data Repository for NBP03-04A  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific-Began on 8/30/2003  Production Observation Through Another Translatitudinal Oceanic Antarctic Cruise Repository for NBP03-04B	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O Jim Swift O-287-N  Steve Cande Joann Stock GO-071-O Wade Jeffrey BO-200-N  Steve Cande Joann Stock	2/20/2003 2/25/2003 2/25/2003 5/23/2003 6/24/2003 7/5/2003 8/22/2003 8/30/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON DH  BRW DH	2/20/2003  2/22/2003  4/9/2003  5/13/2003  6/11/2003  7/2/2003  8/18/2003  8/26/2003  9/8/2003	MCM/Ice Edge  LYT  At LYT  HON DH  BRW  DH HON
NBP03-1b  NBP03-2  ANSLOPE I  NBP03-3  NBP03-4  Northbound transit to AK  NBP03-4A  Arctic Cruise  NBP03-4B	Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf Antarctic Data Repository for NBP03-01  CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene Antarctic Data Repository for NBP03-01A  Interannual Variability in the Antarctic-Ross See: Nutrient fields and seasonal productivity II (IVARS) Mooring Recovery Support- USCG cutter not available as originally planned Antarctic Data Repository for NBP03-01B  Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE) http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml Antarctic Data Repository for NBP03-02  Maintenance Period  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP03-04  Western Arctic Shelf-Basin Interaction http://nsidc.org/arcss/projects/sbi.html Antarctic Data Repository for NBP03-04A  Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific-Began on 8/30/2003  Production Observation Through Another Translatitudinal Oceanic Antarctic Cruise Repository for NBP03-04B	Phil Bart GO-154-O  Walker Smith Vern Asper BO-047-O  Arnold Gordon OO-215-O  NA  Steve Cande Joann Stock GO-071-O Jim Swift O-287-N  Steve Cande Joann Stock GO-071-O Wade Jeffrey BO-200-N Steve Cande	2/20/2003 2/25/2003 2/25/2003 5/23/2003 6/24/2003 7/5/2003 8/22/2003 8/30/2003	MCM/Ice Edge  MCM/Ice Edge  At LYT LYT HON DH  BRW DH	2/20/2003  2/22/2003  4/9/2003  5/13/2003  6/11/2003  7/2/2003  8/18/2003  8/26/2003  9/8/2003	At LYT HON DH BRW DH HON

Last Update:	5/21/2020				
	Pls	Departure	PORT	Arrival	PORT
	Steve Cande Joann Stock GO-071-O	10/9/2003	NAP	10/14/2003	LYT

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
NBP03-4D	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande	10/9/2003	NAP	10/14/2003	LYT
		Joann Stock				
		GO-071-O				
	Production Observation Through Another Translatitudinal Oceanic	Wade Jeffrey				
	Expedition (POTATOE)	BO-200-N				
	Antarctic Cruise Depository for NBP03-04D					
Open Period		NA	10/15/2003		10/21/2003	At LYT
NBP03-5	Interactive Effects of UV Radiation and Vertical Mixing on Phytoplankton	Pat Neale	10/27/2003	LYT	11/19/2003	LYT
	and Bacterioplankton in the Ross Sea	B-203-N				
	http://www.serc.si.edu/uvb/Ross_sea_index.htm					
	Aborted D/T Major Engine Failures on 3 Nov.					
	Antarctic Data Repository for NBP03-05					
	Vessel off hire for Main Engine repairs	NA	11/23/2003	At LYT	12/12/2003	At LYT
NBP03-5A	Interannual Variability in the Antarctic-Ross Sea (IVARS): Nutrients and	Walker Smith	12/18/2003	LYT	1/1/2004	MCM/Ice Edge
	Seasonal Production	B-047-N				
	http://www.vims.edu/research/units/legacy/ivars/index.php					
	Antarctic Data Repository for NBP03-05A					
NBP03-6	Collaborative Research: Antarctic Cretaceous-Cenozoic Climate,	Lou Bartek	1/5/2004	MCM/Ice Edge	1/17/2004	MCM/Ice Edge
	Glaciation, and Tectonics: Site surveys for drilling from the edge of the	<b>Bruce Luyendyk</b>				
I	Ross Ice Shelf	G-152-N				
	Antarctic Data Repository for NBP03-06					
NBP04-1	Neotectonic Structure of Terror Rift, Western Ross Sea	Terry Wilson	1/19/2004	MCM/Ice Edge	2/18/2004	MCM/Ice Edge
		Larry Lawver				
	Antarctic Data Repository for NBP04-01	G-099-N				
NBP04-2	Collaborative Research: Cross-slope exchanges at the Antarctic Slope	Arnold Gordon	2/23/2004	MCM/Ice Edge	4/9/2004	LYT
	Front (ANSLOPE)	O-215-N				
	http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml					
	Antarctic Data Repository for NBP04-02					
NBP04-3	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande	4/15/2004	LYT	5/9/2004	PUQ
		Joann Stock				
NDDOAA	Antarctic Data Repository for NBP04-03	G-071-N	F/47/0004	DUIO	7/47/0004	0.5.7
NBP04-4	International Collaborative Expedition to Collect and Study Fish	Bill Detrich	5/17/2004	PUQ	7/17/2004	CPT
	Indigenous to Sub-Antarctic Habitats (ICEFISH)	B-039-N				
NDD04.5	Antarctic Data Repository for NBP04-04	NI/A	7/00/0004	ODT	7/00/0004	CDT
NBP04-5	Sea Trials: Dynamic Positioning System/SIMRAD Sea-floor beacons	N/A	7/22/2004	CPT	7/26/2004	CPT
NDD04.6	Antarctic Data Repository for NBP04-05	Otava Oanala	7/07/0004	ODT	0/00/0004	LVT
NBP04-6	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande	7/27/2004	CPT	8/29/2004	LYT
	Anteretic Data Repository for NRD04 00	Joann Stock				
NBP04-6AA	Antarctic Data Repository for NBP04-06  Transit to Augkland, NZ Daylock	G-071-N N/A	9/20/2004	LYT	0/2/2004	AUK
NDPU4-6AA	Transit to Auckland, NZ Drydock  Antarctic Data Repository for NBP04-06AA	IN/A	8/30/2004	Líl	9/2/2004	AUK
NBP04-7	DP System and ADCP Sea Trials	N/A	10/4/2004	AUK	10/9/2004	LYT
INDFU4-1	Antarctic Data Repository for NBP04-07	IWA	10/4/2004	AUN	10/9/2004	L T
	Aniarchic Data Repusitory for INDF04-07					

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
NBP04-8	Collaborative Research: Cross-slope exchanges at the Antarctic Slope	Arnold Gordon	10/12/2004		11/6/2004	Timaru, NZ
	Front (ANSLOPE)	O-215-N	11/7/2004	Timaru, NZ	12/7/2004	LYT
	http://www.ldeo.columbia.edu/res/div/ocp/projects/anslope.shtml					
	Antarctic Data Repository for NBP04-08					
IBP04-9	Impact of solar radiation and nutrients on biogeochemical cycling of DMSP	Ronald Kiene	12/18/2004	LYT	1/25/2005	MCM
	and DMS in the Ross Sea	B-002-N				
	http://www.southalabama.edu/marinesciences/fac_kiene.html	David Light an				
	http://www.esf.edu/chemistry/kieber/kieber.htm	David Kieber				
	A C C D C D C C NDDO4 00	B-266-N				
IDDOS 04	Antarctic Data Repository for NBP04-09		4/00/0005	14014	0/45/0005	1.70
IBP05-01	ANSLOPE mooring recovery	Arnold Gordon	1/28/2005	MCM	2/15/2005	LYT
		O-215-N				
	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande				
		Joann Stock				
		G-071-N				
	Interannual Variability in the Antarctic-Ross Sea (IVARS): Nutrients and	Walker Smith				
	Seasonal Production	B-047-N				
	http://www.vims.edu/research/units/legacy/ivars/index.php					
	Antarctic Data Repository for NBP05-01		2/1=/222		2/2/222	
BP05-01A	Maintenance Period	N/A	2/17/2005	At LYT	3/3/2005	At LYT
IBP05-01B	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande	3/3/2005	LYT	3/23/2005	PUQ
ransit to Chile		Joann Stock				
IDD0	Antarctic Data Repository for NBP05-01B	G-071-N		DU G	1/6 5 /5 5 5	Build
IBP05-02	Shallow Drilling on the Antarctic Continential Margin (SHALDRIL)	John Anderson	3/31/2005	PUQ	4/23/2005	PUQ
	http://shaldril.rice.edu/index.html	G-083-N				
	Antarctic Data Repository for NBP05-02					
IBP05-03	Open Period - Punta Arenas, Chile	N/A	5/1/2005	At PUQ	6/19/2005	At PUQ
ue to late sche	eduling changes there was no cruise NBP05-04.					
IBP05-05	Collaborative Research: Controls on Sediment Yields from Tidewter	Bernard Hallet	6/23/2005	PUQ	7/8/2005	PUQ
	Glaciers from Patagonia to Antarctica	G-411-N	7/8/2005	PUQ	7/14/2005	PUQ
	Antarctic Data Repository for NBP05-05					
IBP05-06	Maud Rise Non-linear Equation of State Study (MaudNESS)	Miles McPhee	7/20/2005	PUQ	9/18/2005	PUQ
		O-325-N				
	http://www.oc.nps.navy.mil/~stanton/thermo/Maudness/MaudnessMainHom	4				
IBP05-07	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Steve Cande	9/23/2005	PUQ	10/21/2005	LYT
		Joann Stock				
	Antarctic Data Repository for NBP05-07	G-071-N				
IBP05-08	Interactive Effects of UV Radiation and Vertical Mixing on Phytoplankton	Patrick Neale	10/26/2005	LYT	12/12/2005	LYT
	and Bacterioplankton in the Ross Sea	B-023-N				
	Antarctic Data Repository for NBP05-08					
NBP06-01	Interaction of iron, light and CO2 on phytoplankton community dynamics in	Giacomo DiTullio	12/17/2005	LYT	1/30/2006	MCM
	the Ross Sea	B-272-N				
	Antarctic Data Repository for NBP06-01					
NBP06-01A	Interannual variability in the Antarctic - Ross Sea (IVARS): Nutrients and	Walker Smith	1/31/2006	MCM	2/2/2006	MCM
		B-047-N				
	Antarctic Data Repository for NBP06-01A					
NBP06-02		Steve Cande	2/3/2006	MCM	3/23/2006	PUQ
	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Joann Stock				
	Antarctic Data Repository for NBP06-02	G-071-N				
IBP06-02A	Shallow drilling along the Antarctic continental margin (SHALDRIL): A	John Anderson	2/28/2006	PUQ	4/5/2006	PUQ
	demonstration drilling cruise to the James Ross Basin	B-023-N				
	Antarctic Data Repository for NBP06-02A					
IBP06-03	Paleohistory of the Larsen Ice Shelf System	Eugene Domack	4/11/2006	PUQ	5/6/2006	PUQ
20 00	Antarctic Data Repository for NBP06-03	G-096-L			3. 3. 2333	
IBP06-03A	Open Period	N/A	5/11/2006	PUQ	6/1/2006	PUQ
IBP06-04	Open Period due to PRIMO postponement	N/A	6/6/2006	PUQ	6/26/2006	PUQ
lote: there was	·		3/3/2000		3,23,2000	<u> </u>
IBP06-06	Plankton community structure and iron distribution in the southern Drake	Greg Mitchell	7/3/2006	PUQ	8/15/2006	PUQ
121 00 00	Passage and Scotia Sea	B-228-N	175/2000	l. 53	5, 15,2000	I. 53
	Antarctic Data Repository for NBP06-06					
IBP06-07	Open Period	N/A	8/18/2006	PUQ	8/27/2006	PUQ
IBP06-07A	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific	Joann Stock	8/28/2006	PUQ	9/22/2006	LYT
	Late Statebooks and Genozoic Neconstructions of the Southwest Facility	Steve Cande	3,23,2000		5, 22, 2000	I
IDI 00-07A	T	G-071-N				
101 00-07A	Antarctic Data Repository for NRD06.07A	10-01 1-18				LVC
	Antarctic Data Repository for NBP06-07A	NI/A	0/04/0000	I VT	10/0/000	
IBP06-07B	Open Period	N/A	9/24/2006	LYT	10/9/2006	LYT
IBP06-07B IBP06-07C	Open Period MCS Sea Trials	N/A	10/10/2006	LYT	10/24/2006	LYT
IBP06-07B IBP06-07C IBP06-08	Open Period MCS Sea Trials Interaction of iron, light and CO2 on phytoplankton community dynamics in	N/A Giacomo DiTullio				
NBP06-07B NBP06-07C NBP06-08	Open Period MCS Sea Trials Interaction of iron, light and CO2 on phytoplankton community dynamics in the Ross Sea.	N/A	10/10/2006	LYT	10/24/2006	LYT
IBP06-07B IBP06-07C IBP06-08	Open Period MCS Sea Trials Interaction of iron, light and CO2 on phytoplankton community dynamics in the Ross Sea. Antarctic Data Repository for NBP06-08	N/A Giacomo DiTullio B-272-N	10/10/2006 11/1/2006	LYT LYT	10/24/2006 12/15/2006	LYT LYT
BP06-07B BP06-07C BP06-08	Open Period MCS Sea Trials Interaction of iron, light and CO2 on phytoplankton community dynamics in the Ross Sea.  Antarctic Data Repository for NBP06-08 The connection between mid-Cenozoic seafloor spreading and the western	N/A Giacomo DiTullio B-272-N Steve Cande	10/10/2006	LYT LYT	10/24/2006	LYT
BP06-07B BP06-07C BP06-08	Open Period MCS Sea Trials Interaction of iron, light and CO2 on phytoplankton community dynamics in the Ross Sea. Antarctic Data Repository for NBP06-08	N/A Giacomo DiTullio B-272-N Steve Cande G-413-N	10/10/2006 11/1/2006	LYT LYT	10/24/2006 12/15/2006	LYT LYT
IBP06-07B IBP06-07C IBP06-08	Open Period MCS Sea Trials Interaction of iron, light and CO2 on phytoplankton community dynamics in the Ross Sea.  Antarctic Data Repository for NBP06-08 The connection between mid-Cenozoic seafloor spreading and the western	N/A Giacomo DiTullio B-272-N Steve Cande	10/10/2006 11/1/2006	LYT LYT	10/24/2006 12/15/2006	LYT LYT

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
NBP07-02	The Amundsen Continental Shelf and the Antarctic Ice Sheet	Stan Jacobs		MCM	3/25/2007	PUQ
		O-274-N			5, 25, 255	
		Bruce Huber				
	Antonatic Data Democitary for NDD07 00					
NDD07.00	Antarctic Data Repository for NBP07-02	O-399-N	0/04/0007	DLIC	E / A / O O O O Z	DUIO
NBP07-03	Collaborative Research: Controls on Sediment Yields from Tidewter	John Anderson	3/31/2007	PUQ	5/4/2007	PUQ
	Glaciers from Patagonia to Antarctica	G-435-N				
	Antarctic Data Repository for NBP07-03	Bernard Hallet				
		G-411-N				
NBP07-04	Open Period	N/A	5/10/2007	PUQ	6/20/2007	PUQ
NBP07-05	Transit from Punta Arenas to TAL for Maintenance Period	N/A	6/21/2007	PUQ	6/25/2007	TAL
NBP07-06	Drydock and Maintenance Period	N/A	6/25/2007	TAL	7/28/2007	TAL
	, ,			TAL		PUQ
NBP07-07	Transit from Talcahuano to Punta Arenas	N/A	7/28/2007		8/2/2007	
NBP07-08	Open Period	N/A	8/2/2007	PUQ	8/27/2007	PUQ
NBP07-09	Sea Ice Mass Balance in the Antarctic (SIMBA)	Steve Ackley	9/1/2007	PUQ	9/6/2007	PAL
		O-270-N	9/8/2007	PAL	9/12/2007	PUQ
	Antarctic Data Repository for NBP07-09		9/20/2007	PUQ	10/31/2007	PUQ
NBP07-10	Collaborative Research: Dynamics and transport of the Antarctic	Teri Chereskin	11/13/2007	PUQ	12/7/2007	PUQ
	Circumpolar Current in Drake Passage	O-313-N				
	Antarctic Data Repository for NBP07-10					
NBP07-11	Transit		12/12/2007	PUQ	1/4/2008	LYT
		D 0		LYT		
NBP08-01	Collaborative Research: Do crustacean zooplankton play a pivotal role in	Dave Caron	1/9/2008	LYI	1/27/2008	MCM
	structuring heterotrophic plankton communities.	B-245-N			ĺ	1
	Cape Adare Long-term Mooring (CALM)	Bruce Huber				
	Antarctic Data Repository for NBP08-01	O-399-N				
NBP08-02	Collaborative Research: Do crustacean zooplankton play a pivotal role in	Dave Caron	1/30/2008	MCM	2/21/2008	MCM
	structuring heterotrophic plankton communities.	B-245-N				
	Ross-Sea outer continental shelf morphology and near-surface	Phil Bart				1
	, ,,				ĺ	1
	stratigraphy: Quaternary ice-sheet grounding-zone migrations and the LGM	M-104-N			ĺ	1
	dilemma					
	Antarctic Data Repository for NBP08-02					
NBP08-03	Ross-Sea outer continental shelf morphology and near-surface	Phil Bart	2/22/2008	MCM	3/15/2008	LYT
	stratigraphy: Quaternary ice-sheet grounding-zone migrations and the LGM	G-154-N				
	dilemma					
	Antarctic Data Repository for NBP08-03					
NBP08-04		Jaann Ctaals	3/20/2008	LYT	4/14/2008	PUQ
NDF00-04	Collection of marine geophysical data on transits of the Nathaniel B.	Joann Stock	3/20/2006	LTI	4/14/2006	FUQ
	Palmer	G-071-N				
	Antarctic Data Repository for NBP08-04					
NBP08-05	Central Scotia Sea floor and the Drake Passage deep ocean curent	Ian Dalziel	4/18/2008	PUQ	5/25/2008	PUQ
	gateway	G-087-N				
	,	Laura Robinson				
	Glacial radiocarbon constraints from Drake Passage deep-sea corals	G-290-N				
	Antarctic Data Repository for NBP08-05	G-230-N				
NIDDOO OC		17 O10	E/04/0000	DUO	0/00/0000	DUO
NBP08-06	Free drifting icebergs: Influence of floating islands on pelagic ecosystems	Ken Smith	5/31/2008	PUQ	6/30/2008	PUQ
	in the Weddell Sea	B-050-N				
	Antarctic Data Repository for NBP08-06					
NBP08-07	Open Period	N/A	7/3/2008	PUQ	7/7/2008	PUQ
NBP08-08		David DeMaster	7/10/2008	PUQ	8/4/2008	PUQ
	Collaborative Research: Benthic faunal feeding dynamics on the Antaractic	B-237-N				
	Shelof and the effects of global climate change on bentho-pelagic coupling.	Craig Smith				
		_				
NIDDO0 OO	Antarctic Data Repository for NBP08-08	B-212-N	0/0/2000	PUQ	0/5/2000	PUQ
NBP08-09	Open Period	N/A	8/8/2008	PUQ	9/5/2008	PUQ
	USCG/ABS Inspections 8/15/2008					
NBP08-10	Open Period	N/A	9/8/2008	PUQ	9/23/2008	PUQ
NBP08-11	Open Period	N/A	9/24/2008	PUQ	11/16/2008	PUQ
NBP08-12	Collaborative Research: Dynamics and transport of the Antarctic	Teri Chereskin				
<b></b>	Circumpolar Current in Drake Passage		11/20/2008	PUQ	12/13/2008	PUQ
	Antarctic Data Repository for NBP08-12		. 1/20/2000	33	12, 10,2000	I. 33
NBP08-13		N/A	12/14/2008	DLIO	12/22/2000	PUQ
	Open Period; LARISSA Helo Inspection; NSF Job Walk				12/23/2008	
NBP09-01	Collaborative International Research: Amundsen Sea Influence on West	Stan Jacobs	1/5/2009	PUQ	2/26/2009	PUQ
	Antarctic Ice Sheet Stability and Sea Level Rise	O-274-N			ĺ	1
	Shedding dynamic light on iron limitation: The interplay of iron limitation	<b>Kevin Arrigo</b>			ĺ	1
	and dynamic irradiance conditions in governing the phytoplankton	O-216-N				1
	distribution in the Ross Sea	Xiaojun Yuan				1
	Collaborative Research: Sampling the ocean - sea ice interaction in the	O-261-N			ĺ	1
	Pacific center of the Antarctic Dipole	201-14			ĺ	1
	Antarctic Data Repository for NBP09-01					1
NDD00 00		Von Cwitt	2/0/2022	DLIC	4/4 4/0000	DUC
NBP09-02	Free drifting icebergs: Influence of floating islands on pelagic ecosystems	Ken Smith	3/6/2009	PUQ	4/14/2009	PUQ
	in the Weddell Sea	B-050-N			ĺ	1
	Antarctic Data Repository for NBP09-02					
NBP09-02A	Stand-by preparation	N/A	4/15/2009	PUQ	4/27/2009	PUQ
NBP09-02B	Transit to Puerto Montt	N/A	4/28/2009	PUQ	5/2/2009	PMC
NBP09-03	Open Period Puerto Montt	N/A	5/3/2009	PMC	9/12/2009	PMC
	as no NBP09-04					
NBP09-05		N/A	9/12/2009	PMC	9/14/2009	TAL
	,	N/A	10/8/2009	TAL	10/12/2009	PMC
	Equipment Test Cruice		- 111/A/ /IIIIU			
	Equipment Test Cruise	N/A				
NBP0905A			10/13/2009	PMC	10/17/2009	PUQ
NBP0905A NBP09-06	Open Period as no NBP09-07	N/A		PMC		

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
NBP09-08	Collaborative Research: Dynamics and transport of the Antarctic	Teri Chereskin	11/19/2009		12/3/2009	PAL
	Circumpolar Current in Drake Passage	O-313-N		PAL	12/5/2009	ROT
	Antarctic Data Repository for NBP09-08			ROT	12/19/2009	PUQ
NBP10-01	LARsen Ice Shelf System, Antarctica (LARISSA)	Eugene Domack		PUQ	3/1/2010	PUQ
10 01	Collaborative Research in IPY: Abrupt Environmental Change in the Larsen		17-472010	1 00	0/1/2010	100
	Conaborative (Coocaron in it 1.7 totapt Environmental Change in the Earsen	Maria Vernet				
		C-246-N				
		Ted Scambos				
	Antarctic Data Repository for NBP10-01	C-514-N				
NBP10-02	Altarctic Data Repository for NBF 10-01	Joseph Torres	3/16/2010	PUQ	5/1/2010	PUQ
NDF 10-02	Collaborative research: Possible climate-induced change in the distribution	-	3/10/2010	FUQ	5/1/2010	FUQ
	of Pleuragramma antarcticum on the Western Antarctic Peninsula shelf.	D-230-N				
	WAP-flux: New Tools to Study the Fate of Phytoplankton Production in the	Kenneth Buessler				
	West Antarctic Peninsula	O-288-N				
		U-200-IN				
	Reconciling the marine and terrestrial records of glaciation of the South	Alexander Simms				
	Shetland Islands	G-116-E				
NDD40 00	Antarctic Data Repository for NBP10-02		F/7/2040	DUO	0/44/2040	DUO
NBP10-03	Collaborative Research: the ecological role of a poorly studied Antarctic	Douglas Nowcek	5/7/2010	PUQ	6/11/2010	PUQ
	krill predator: the humpback whale, Megaptera novaeangliae	B-249-N				
	Antonotic Data Demositary for NDD40 00					
NDD40 000	Antarctic Data Repository for NBP10-03	INI/A	6/40/0040	DUO	0/00/0040	DNIT
NBP10-03B	Open Period, Puerto Natales, Chile	N/A		PUQ	6/20/2010	PNT
NIDD40 04	Callaborative December December 2 - 1 to 2 - 2 - 2 - 1 to 2 - 2 - 2 - 1 to 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Tori Charactiin		PNT	9/16/2010	PUQ
NBP10-04	Collaborative Research: Dynamics and transport of the Antarctic	Teri Chereskin	10/23/2010	PUQ	11/15/2010	PUQ
	Circumpolar Current in Drake Passage	O-313-N				
	Antarctic Data Repository for NBP10-04					
NBP10-05	Collaborative Research: ASPIRE (Amundsen Sea Polynya International	Patricia Yager	11/26/2010	PUQ	1/17/2011	MCM
	Research Expedition)	B-388-N				
	Antarctic Data Repository for NBP10-05					
NBP11-01	Collaborative Research: Modified Circumpolar Deep Water intrusions as an		1/19/2011	MCM	2/15/2011	MCM
	iron source to the summer Ross Sea ecosystem	O-216-N				
		Adam Kustka				
	Antarctic Data Repository for NBP11-01	O-216-N				
NBP11-02	Climate variability and predictability (CLIVAR)	Jim Swift	2/19/2011	MCM	4/23/2011	PUQ
	Antarctic Data Repository for NBP11-02	O-287-N				
NBP11-03	Collaborative Research: Historic Perspectives on Climate and	Laura Robinson	5/9/2011	PUQ	6/11/2011	PUQ
	Biogeography from Deep-Sea Corals in the Drake Passage	G-290-N				
	Antarctic Data Repository for NBP11-03					
NBP11-04	Open Period	N/A	6/11/2011	PUQ	6/22/2011	PUQ
	Palmer Station Medevac		6/22/2011	PUQ	6/23/2011	PNT
			9/3/2011	PNT	9/4/2011	PUQ
				PUQ	9/8/2011	PAL
			9/8/2011	PAL	9/11/2011	PUQ
NBP11-05	Using molecular data to test connectivity and the circumpolar paradigm for	Nerida Wilson	9/17/2011	PUQ	11/4/2011	PUQ
	Antarctic marine invertebrates.	B-465-N				
	Antarctic Data Repository for NBP11-05					
NBP11-06	Open Period	N/A	11/10/2011	PUQ	11/13/2011	PUQ
NBP11-07	Collaborative Research: Dynamics and Transport of the Antarctic	Teresa Chereskin	11/18/2011	PUQ	12/11/2011	PUQ
	Circumpolar Current in Drake Passage	O-313-N				
	Antarctic Data Repository for NBP11-07					
NBP12-01	Impact of mesoscale processes on iron supply and phytoplankton dynamics	Dennis McGillicuddy	12/24/2011	PUQ	2/8/2012	MCM
	in the Ross Sea	B-318-N				
	Antarctic Data Repository for NBP12-01					
NBP12-02	Transit to Punta Arenas, Chile	N/A	2/11/2012	MCM	2/27/2012	PUQ
NBP12-03	LARsen Ice Shelf System, Antarctica (LARISSA)	Maria Vernet	3/1/2012	PUQ	4/19/2012	PUQ
	Collaborative Research in IPY: Abrupt Environmental Change in the Larsen	C-246-N				
	Ice Shelf System, a Multidisciplinary Approach - Marine and Quaternary	Bruce Huber				
		O-399-N				
		Eugene Domack				
	Antarctic Data Repository for NBP12-03	C-515-N				
NBP12-04	Transit to dry dock maitenance period.	N/A	5/8/2012	PUQ	5/14/2012	TAL
NBP12-05	Drydock and Maintenance Period	N/A	5/15/2012	TAL	5/31/2012	TAL
NBP12-06	Transit to Punta Arenas, Chile	N/A	6/1/2012	TAL	6/8/2012	PUQ
	Open Period	N/A	6/9/2012	PUQ	7/31/2012	PUQ
NBP12-07	NOAA/AMLR	George Watters	8/1/2012	PUQ	8/17/2012	PUQ
1401 12 01	TOO WANTER	B-006-N	5, 1,2012	. 54	0,17,2012	<b>1</b> ' ~~
		P-000-14				
		<u> </u>				4
NBP12-08	Seismic Sea Trials	N/A	8/31/2012	PUQ	9/5/2012	PUQ

Cruise # NBP12-09 NBP12-10	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
IBP12-10	Open Period	N/A		PUQ	12/31/2012	PUQ
	Genetic connectivity and Biogeographic Patterns of Antarctic Benthic	Ken Halanych	1/6/2013	PUQ	2/9/2013	MCM
	Invertebrates	B-281-N				
	Antarctic Data Repository for NBP12-10					
IBP13-02	Pre and Post molt biology of emperor penguins	Gerald Kooyman	2/13/2013	MCM	4/5/2013	PUQ
		B-464-N				
	Collaborative Research: Tracing the fate of Algal Carbon Export in the	Dennis Hansell				
	Ross Sea (TRACERS)	O-309-N				
	Collaborative Research: Sampling the ocean- Sea ice interaction in the	Xiaojun Yuan				
	Pacific Center of the Antarctic Dipole	O-261-N				
NBP13-03	Antarctic Data Repository for NBP13-02	Cross Davids	4/0/2042	DLIC	F/0/2042	DLIO
NBP13-03	Using molecular data to test connectivity and the circumpolar paradigm for Antarctic marine invertebrates	Greg Rouse B-465-N	4/9/2013	PUQ	5/9/2013	PUQ
NBP13-04	Antarctic Data Repository for NBP13-03  Seasonal Trophic Roles of Euphausia superba (STRES) in the Wilhelmina	Nerida Wilson Edwin Durbin	5/13/2013	PUQ	6/12/2013	PUQ
NDF 13-04	Bay region	B-014-N	5/13/2013	ruu	0/12/2013	FUQ
	Antarctic Data Repository for NBP13-04	D-014-N				
IBP13-05A	Transit to Valparaiso, Chile		6/16/2013	PUQ	6/22/2013	VAL
IBP13-05	Study the low oxygen water column in the Eastern tropical South Pacific.	Allan Devol	6/24/2013	VAL	7/27/2013	VAL
.2. 10 00	Study microbial nitrogen transormations unique to this region.	O-213-N	0,2 1,2010	v, (=	1,21,2010	' ' -
	Antarctic Data Repository for NBP13-05					
IBP13-06	at Valparaiso, Chile		7/27/2013	VAL	8/7/2013	VAL
o 07 or 08						
IBP13-09	NOAA/ AMLR (Antarctic Marine Living Resources) supports the	George Watters	8/10/2013	PUQ	9/10/2013	PUQ
	development of U.S. policy regarding the conservation and management of	B-006-N				
	the marine living resources in the Southern Ocean.					
	Antarctic Data Repository for NBP13-09					<u></u>
NBP13-10A	Measure hydrography, tracer, and turbulence levels along the Phoenix	James Ledwell	10/23/2013	PUQ	11/13/2013	PUQ
	Ridge and Shackleton Fracture Zone in Drake Passage	O-124-N			1	
					1	
IBP13-10	Through combination of field and laboratory based studies to identify the	Kevin Arrigo	11/18/2013	PUQ	1/23/2014	НОВ
	,	B-244-N	,	. • •	.,,	
	in the Southern Ocean and to identify the specific adaptive responses to					
	these environmental factors. (Arrigo 11/18-12/5/13)					
	Assess the status, viability and ecological impacts of populations of	Richard Aronson				
	potentially invading, predatory king crabs in the Bellingshausen Sea. Data	B-002-N				
	will provide baseline for large-scale, long-term monitoring programs to					
	track benthic assemblages in Antarctica over the coming decades of					
	climate change. (Aronson 12/6-1/23/14)					
	Antarctic Data Repository for NBP13-10					
NBP14-02	Reconnaissance survey of the region of the Totten Glacier to: evaluate the	Amy Leventer	1/29/2014	HOB	3/16/2014	HOB
	recent behavior of the glacial system based on seafloor morpholgy, sub	C-527-N				
	bottom profiling, high resolutoin seismic imaging and marine sediment core					
	evaluation and to elucidate the longer term role of the Totten Glacier as it					
	reponded to late Quaternary changes in climate and sea leve. And to					
	assess the Totten Glacier tongue and deep basins that surround it.					
	Antarctic Data Repository for NBP14-02					
IBP14-03	Climate variability and predictability (CLIVAR)	Jim Swift	3/20/2014	НОВ	5/5/2014	PPT
	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03	Jim Swift O-287-N	3/20/2014	НОВ	5/5/2014	PPT
IBP14-04 Transit t	Climate variability and predictability (CLIVAR) <u>Antarctic Data Repository for NBP14-03</u> from PPT to Talcahuano, Chile NBP14-05 dry dock	O-287-N				<u> </u>
IBP14-04 Transit t	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of	O-287-N Andreas Thurnherr		HOB PUQ	5/5/2014 8/15/2014	PPT
IBP14-04 Transit t	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges	O-287-N				<u> </u>
BP14-04 Transit I	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06	O-287-N  Andreas Thurnherr O-408-N	6/26/2014	PUQ	8/15/2014	PUQ
IBP14-04 Transit I IBP14-06	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges	O-287-N  Andreas Thurnherr O-408-N  George Watters				<u> </u>
NBP14-04 Transit i NBP14-06 NBP14-07	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N	6/26/2014 8/19/2014	PUQ PUQ	8/15/2014 9/18/2014	PUQ PUQ
IBP14-04 Transit I NBP14-06 NBP14-07	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel	6/26/2014 8/19/2014	PUQ	8/15/2014	PUQ
BP14-04 Transit I IBP14-06 IBP14-07	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N	6/26/2014 8/19/2014	PUQ PUQ	8/15/2014 9/18/2014	PUQ PUQ
BP14-04 Transit I IBP14-06 IBP14-07	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel	6/26/2014 8/19/2014	PUQ PUQ	8/15/2014 9/18/2014	PUQ PUQ
NBP14-04 Transit INBP14-06 NBP14-07 NBP14-08	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel	6/26/2014 8/19/2014	PUQ PUQ	8/15/2014 9/18/2014	PUQ PUQ
IBP14-04 Transit I NBP14-06 NBP14-07 NBP14-08	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N	6/26/2014 8/19/2014 9/22/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014	PUQ PUQ PUQ
BP14-04 Transit I NBP14-06 NBP14-07 NBP14-08	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo	6/26/2014 8/19/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014	PUQ PUQ
IBP14-04 Transit I NBP14-06 NBP14-07 NBP14-08	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N	6/26/2014 8/19/2014 9/22/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014	PUQ PUQ PUQ
BP14-04 Transit I IBP14-06 IBP14-07 IBP14-08	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo	6/26/2014 8/19/2014 9/22/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014	PUQ PUQ PUQ
BP14-04 Transit IBP14-06  IBP14-07  IBP14-08  BP14-09A NSF SIBP14-09	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N	6/26/2014 8/19/2014 9/22/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014	PUQ PUQ PUQ
BP14-04 Transit IBP14-06  IBP14-07  IBP14-08  BP14-09A NSF SIBP14-09	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin	6/26/2014 8/19/2014 9/22/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014	PUQ PUQ PUQ
BP14-04 Transit I BP14-06 BP14-07 BP14-08 BP14-09A NSF S BP14-09	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014	PUQ PUQ PUQ PUQ
IBP14-04 Transit I NBP14-06 NBP14-07 NBP14-08 IBP14-09A NSF S NBP14-09	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin	6/26/2014 8/19/2014 9/22/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014	PUQ PUQ PUQ
NBP14-03 NBP14-04 Transit ( NBP14-06 NBP14-07 NBP14-08 NBP14-09A NSF S NBP14-090 NBP14-09	Climate variability and predictability (CLIVAR)  Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges  Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014	PUQ PUQ PUQ PUQ
IBP14-04 Transit INBP14-06  NBP14-07  NBP14-08  IBP14-09A NSF S  NBP14-09	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors. Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014	PUQ PUQ PUQ PUQ
IBP14-04 Transit I NBP14-06 NBP14-07 NBP14-08 IBP14-09A NSF S NBP14-09	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors. Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014  James Girton	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014	PUQ PUQ PUQ PUQ
BP14-04 Transit IBP14-06  IBP14-07  IBP14-08  BP14-09A NSF S  IBP14-09	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo Station.	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014	PUQ PUQ PUQ PUQ
IBP14-04 Transit IBP14-06  IBP14-07  IBP14-08  IBP14-09A NSF SIBP14-09  IBP14-10  IBP14-10	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors. Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014  James Girton O-398-N	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014 1/5/2015	PUQ PUQ PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014 1/20/2015	PUQ PUQ PUQ PUQ MCM
BP14-04 Transit IBP14-06  IBP14-07  IBP14-08  BP14-09A NSF S  IBP14-09  IBP14-10	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors. Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo Station. Antarctic Data Repository for NBP15-01	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014  James Girton O-398-N  John Anderson	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014	PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014	PUQ PUQ PUQ PUQ
BP14-04 Transit IBP14-06  IBP14-07  IBP14-08  BP14-09A NSF S  IBP14-09	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo Station.  Antarctic Data Repository for NBP15-01  To investigate the detailed history of the Central and Joides troughs,	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014  James Girton O-398-N	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014 1/5/2015	PUQ PUQ PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014 1/20/2015	PUQ PUQ PUQ PUQ MCM
BP14-04 Transit IBP14-06  IBP14-07  IBP14-08  BP14-09A NSF S  IBP14-09  IBP14-10	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors. Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo Station. Antarctic Data Repository for NBP15-01	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014  James Girton O-398-N  John Anderson	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014 1/5/2015	PUQ PUQ PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014 1/20/2015	PUQ PUQ PUQ PUQ MCM
BP14-04 Transit IBP14-06  BP14-07  BP14-08  BP14-09A NSF SBP14-09  BP14-10  BP15-01	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors. Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo Station. Antarctic Data Repository for NBP15-01  To investigate the detailed history of the Central and Joides troughs, Western Ross Sea, in order to provide context to modern ice streams.	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014  James Girton O-398-N  John Anderson G-088	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014 1/5/2015	PUQ PUQ PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014 1/20/2015	PUQ PUQ PUQ PUQ MCM
BP14-04 Transit IBP14-06  BP14-07  BP14-08  BP14-09A NSF SBP14-09  BP14-10  BP15-01	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03  from PPT to Talcahuano, Chile NBP14-05 dry dock  To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06  Antarctic Marine Living Resources  To understand tectonic evolution of the Central Scotia Sea and the bearing on the onset and development of the Antarctic Circumpolar current  Antarctic Data Repository for NBP14-08  Site Visit  To identify environmental factors that control the distribution of p.antarctica in the Southern Ocean and to identify adaptive responses to these environmental factors.  Antarctic Data Repository for NBP14-09  To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10  Haz Run/  To deploy APEX floats in an ice-free region of the seasonal ice zone in the Amundsen Sea sector during transit from Punta Arenas to McMurdo Station.  Antarctic Data Repository for NBP15-01  To investigate the detailed history of the Central and Joides troughs,	O-287-N  Andreas Thurnherr O-408-N  George Watters B-006-N  Ian Dalziel G-087-N  Kevin Arrigo B-244-N  Edward Durbin B-014  James Girton O-398-N  John Anderson	6/26/2014 8/19/2014 9/22/2014 10/26/2014 11/30/2014 1/5/2015	PUQ PUQ PUQ PUQ PUQ	8/15/2014 9/18/2014 10/22/2014 11/26/2014 12/30/2014 1/20/2015	PUQ PUQ PUQ PUQ MCM

Antarctic Data Repository for NBP15-02

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
NBP15-03	To investigate if cross-shelf trough exists in front of significant ice streams along a section of the East Antarctic continental margin and if those troughs could provide pathways for warm ocean water intrusion to the underside of ice shelves and thus enable or increase melting.  Antarctic Data Repository for NBP15-03	Frank-Oliver Nitsche G-059	3/26/2015	НОВ	4/30/2015	НОВ
NBP15-04	Transit Antarctic Data Repository for NBP15-04		5/6/2015	НОВ	5/29/2015	TAL
NBP15-05A	Drydock					
NBP15-05	Transit					
NBP15-06 NBP15-07	Open  NOAA/ AMLR (Antarctic Marine Living Resources) supports the development of U.S. policy regarding the conservation and management of the marine living resources in the Southern Ocean.  Antarctic Data Repository for NBP15-07	Reiss, Christian B-006	8/3/2015	PUQ	8/30/2015	PUQ
NBP15-08	To improve our understanding of the dynamix over the conrrugated flanks of slow-spreading mid-ocean ridges.  Antarctic Data Repository for NBP15-08	St. Laurent, Louis O-408	9/5/2015	PUQ	10/21/2015	PUQ
NBP15-09	OPEN					
NBP15-10	To recover and redploy NSF Ocean Observatories Initiative (OOI) 42°S, 42°W Array, with four moorings and up to four gliders. The platforms will carry multidisciplinary instrumentation and provide the capability for real time communication of data and control of sampling.  Antarctic Data Repository for NBP15-10	Kelly, Michael O-410	11/7/2015	PUQ	12/2/2015	PUQ
NBP15-11	To recover and redploy NSF Ocean Observatories Initiative (OOI) 42°S, 42°W Array, with four moorings and up to four gliders. The platforms will carry multidisciplinary instrumentation and provide the capability for real time communication of data and control of sampling.  Antarctic Data Repository for NBP15-11	Kelly, Michael O-410	12/9/2015	PUQ	1/3/2016	PUQ
NBP16-01	Assess the role of aerobic and anaerobic sediment organic matter utilization and nutrient regeneration, and to develop initial data and estimates of the role of sedimentary iron remobilization as a source of this nutrient for the productivity within the LTER	Christensen, John G-430	1/8/2016	PUQ	2/8/2016	PUQ
	The objective of the proposed research is to focus on extending the magnetostratigraphic record in the late Cretaceous and early Tertiary sediments of the James Ross Basin, Antarctica. In the 2016 field season the team has proposed to collect rock samples, via rock drills, that will refine the position of several geomagnetic reversals. The area around Hamilton Point, James Ross Island is the focus for sampling and camp deployment					
NBP16-02	Antarctic Data Repository for NBP16-01  To explore for, discover, and collect vertebrate fossils (primarily those of	Lamanna, Matthew	2/15/2016	PUQ	3/20/2016	PUQ
	fishes, marine reptiles, non-avian dinosaurs, birds, and mammals) in deposits of Late Cretaceous through Paleogene age on islands in and near the James Ross Island Group.	G-182				
	The objective of the proposed research is to focus on extending the magnetostratigraphic record in the late Cretaceous and early Tertiary sediments of the James Ross Basin, Antarctica. In the 2016 field season the team has proposed to collect rock samples, via rock drills, that will refine the position of several geomagnetic reversals. The area around Hamilton Point, James Ross Island is the focus for sampling and camp deployment  Antarctic Data Repository for NBP16-02	Kirschvink, Joseph G-291				
NBP16-03	To determine whether subpolar WAP fjords are regionally significant hotspots of productivity and biodiversity; (2) Elucidate and model the physical, biological and chemical processes that interact in these fjords to enhance productivity and biodiversity; (3) Evaluate through dynamic modeling the sensitivity of physical, chemical and biological processes driving WAP fjord productivity/diversity to changes in meltwater and sediment input	Smith, Craig B-212	3/29/2016	PUQ	4/30/2016	PUQ
NBP16-04	Antarctic Data Repository for NBP16-03  OPEN		5/7/2016	PUQ	6/25/2016	PUQ
NBP16-05	OPEN		6/29/2016	PUQ	7/27/2016	PUQ
NBP16-06	NOAA/ AMLR (Antarctic Marine Living Resources) supports the development of U.S. policy regarding the conservation and management of the marine living resources in the Southern Ocean.	Watters, George B-006-N	8/4/2016	PUQ	8/31/2016	PUQ
NBP16-08	Antarctic Data Repository for NBP16-06  To determine the biogeochemical conditions, in terms of macronutrient, micronutrient and ligand concentrations, for active iron-binding ligand production in field incubations of natural biological assemblages of the Southern Ocean.  Antarctic Data Repository for NBP16-08	Jenkins, Bethany B-230-N	9/7/2016	PUQ	10/14/2016	PUQ
NBP16-09	To recover and redploy NSF Ocean Observatories Initiative (OOI) 55°S, 90°W Array, with four moorings and up to four gliders. The platforms will carry multidisciplinary instrumentation and provide the capability for real time communication of data and control of sampling. Argentine Basin Antarctic Data Repository for NBP16-09	Ulses, Greg O-410	10/20/2016	PUQ	11/15/2016	PUQ

Cruise #	CRUISES by NAME	Pls		PORT	Arrival	PORT
NBP16-10	To recover and redploy NSF Ocean Observatories Initiative (OOI) 42°S, 42°W Array,, with four moorings and up to four gliders. The platforms will carry multidisciplinary instrumentation and provide the capability for real time communication of data and control of sampling. Southern Ocean	Ulses, Greg O-410	11/20/2016	PUQ	12/16/2016	PUQ
NBP17-01	Antarctic Data Repository for NBP16-10  Investigate the pathways of Circumpolar Deep Water (CDW) transport from the open ocean to the Antarctic continental shelf in the Amundsen Sea region. Subsurface profiling floats (EM-APEX) equipped to operate under sea ice will measure shear, turbulence, temperature, and salinity to 2000m	Girton, James O-398	12/24/2016	PUQ	1/20/2017	MCM
	depth for 2 year missions while following the CDW layer.  To characterize the physiological and genetic diversity of Southern Ocean diatoms along a transect from Punta Arenas, Chile to McMurdo Station.  The SOCCOM (Southern Ocean Carbon and Climate Observations and Modelling) project is implementing sustained observations of the carbon cycle, together with mesoscale eddying models linked to the observations.  180 to 200 autonomous profiling floats with biogeochemical sensors (oxygen, nitrate, pH and optical sensors in addition to temperature/salinity) and sea-ice avoidance software are being deployed throughout the Southern Ocean over a period of six years  Antarctic Data Repository for NBP17-01	Rynearson, Tatiana B-469 Sarmiento, Jorge O-271				
IBP17-02	To test the relationships between dissolved nitrate, organic matter, and diatom-bound nitrogen isotopes as well as silicic acid and diatom silicon isotopes and to verify culture observations.  To collect sediment cores from the Southwest Pacific sector of the Southern Ocean in order to measure radiocarbon ages in contemporary benthic and planktonic foraminifera.  Antarctic Data Repository for NBP17-02	Robinson, Rebecca G-152 Anderson, Robert G-051	1/23/2017	МСМ	3/5/2017	LYT
NBP17-04	To fully capture the space/time evolution of air-ice-ocean interactions initiated during autumn and tracked into winter-spring in the Ross Sea.  An observational program to simultaneously identify the mechanisms responsible for water mass modification within the Terra Nova Bay polynya and document all aspects of dense shelf water formation within an Antarctic polynya system.  Assessing the roles of the late fall convective processes and sea ice formation in the seasonal dynamics of dissolved iron, an essential micronutrient for phytoplankton.	Stephen Ackley C-531 Christopher Zappa O-403 Peter Sedwick O-316	4/10/2017	LYT	6/14/2017	LYT
NBP 17-05	Antarctic Data Repository for NBP17-04  Transit			LYT		SYD
NBP17-06	The GO-SHIP(P6) principal scientific objectives are: (1) understanding and documenting the large-scale ocean water property distributions, their changes, and drivers of those changes, and (2) addressing questions of how a future ocean that will increase in dissolved inorganic carbon, become more acidic and more stratified, and experience changes in circulation and ventilation processes due to global warming and altered water cycle,  Antarctic Data Repository for NBP17-06	O-287	7/3/2017	SYD	8/17/2017	PPT
NBP17-07	The GO-SHIP (P6) principal scientific objectives are: (1) understanding and documenting the large-scale ocean water property distributions, their changes, and drivers of those changes, and (2) addressing questions of how a future ocean that will increase in dissolved inorganic carbon, become more acidic and more stratified, and experience changes in circulation and ventilation processes due to global warming and altered water cycle,  Antarctic Data Repository for NBP17-07	James Swift O-287	8/20/2017	PPT	9/30/2017	VAL
NBP17-09	The Ocean Observatories Initiative (OOI) has constructed a networked infrastructure of science-driven sensor systems to measure physical, chemical, geological and biological variables in ocean and seafloor. The United States Antarctic Program (USAP) will support the deployment of two Coastal &Global Scale Nodes (CGSN) at Global Site 42°S, 42 °W (Argentine Basin) and Global Site 55°S, 90°W (Southern Ocean).The CGSN moorings and gliders are replaced annually. The 2017 cruise will only entail work at Global Site 55 South (55S, 90W).  Antarctic Data Repository for NBP17-09	Paul Matthias O-410	11/23/2017		12/9/2017	PUQ
NBP18-01	To determine whether iron and vitaminB-12 dynamics are primarly responsiblefor causing the shift in phytoplankton community composition in Terra Nova Bay.  Use independent tracers of freshwater introduction from the ice sheets to the surrounding ocean to imporve the ability to track how fast and where continental ice is melting.  A quantitative assessment of simultaneous spatial distributions of phytoplankton, zooplankton, and Antarctic silverfish in Terra Nova Bay and the surrounding self waters.  Antarctic Data Repository for NBP18-01	Giacomo DiTullio B-007 Robert Dunbar O-131 Grace Saba B-050	12/16/2017 1/23/2018	PUQ MCM	1/20/2018 3/3/2018	MCM HOB
NBP18-02	The GO-SHIP (S4P) principal scientific objectives are: (1) understanding and documenting the large-scale ocean water property distributions, their changes, and drivers of those changes, and (2) addressing questions of how a future ocean that will increase in dissolved inorganic carbon, become more acidic and more stratified, and experience changes in circulation and ventilation processes due to global warming and altered water cycle.  Antarctic Data Repository for NBP18-02	Alison Macdonald O-287	3/9/2018	НОВ	5/14/2018	PUQ

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
NBP18-03	NSF SHIP INSPECTION		5/16/2018	PUQ	5/18/2018	PUQ
IBP18-04	OPEN PERIOD		5/19/2018	PUQ	6/24/2018	PUQ
IBP18-05	OPEN PERIOD		6/25/2018	PUQ	7/25/2018	PUQ
BP18-06	OPEN PERIOD		7/26/2018	PUQ	8/19/2018	PUQ
BP18-07	OPEN PERIOD		8/20/2018	PUQ	10/9/2018	PUQ
IBP18-08	This project will carry out a seagoing cruise to the Rio Grande Rise to survey and collect rock samples from 40 seamounts, rift zone valleys and steep escarpments. These new data will allow a thorough investigation of the formation of the Rio Grande Rise and its relationship to the Walvis Ridge where rock samples have already been collected. The new data will also provide a unique opportunity to address a wide range of questions relating to plate tectonics, including how the Rio Grande Rise is related to the deep dense mantle	Antonius Koppers G-116	10/13/2018 10/20/2018 12/06/2018	MVD	10/19/2018 12/05/2018 12/12/2018	MVD MVD PUQ
3P19-01	zone of the African large low shear wave velocity province (LLSVP) which is thought to be a place where mantle plumes are generated.  Antarctic Data Repository for NBP18-08  To provide high spatially- and temporally-resolved hydrographic sections	Andrew Thompson	12/21/2018	PUQ	1/23/2019	PUQ
	across the continental shelf and slope at the southern extent of the west Antarctic Peninsula, and further to the west into the Bellingshausen Sea and Belgica Trough, in order to examine the initiation of the Antarctic Slope Front (ASF).					
	This project will utilize independent tracers of freshwater introduction from the ice sheets to the surrounding ocean to improve our ability to track how fast and where continental ice is melting.  Antarctic Data Repository for NBP19-01	Robert Dunbar O-131				
BP19-02	To show whether the Thwaites-Pine Island glacier system has been less	Brent Goehring	1/29/2019	PUQ	3/25/2019	PUQ
	extensive during the Holocene than it is at present. Our goals are to determine whether previous grounding-line retreat/advance cycles, as established by geologic evidence, occurred in the late Holocene. If so, we will establish under what climate and sea-level boundary conditions they took place. Determining the conditions under which Thwaites and Pine Island Glacier grounding lines have retreated and re-advanced in the past is critically relevant to determining whether or not present-day grounding-line retreat is irreversible.	C-443  Joanne Johnson				
	Measuring ocean circulation and thinning beneath the floating part of the	C-443 Erin Pettit				
	glacier using state of the art technology such as AUVs and automated land-ice stations, ARSAN will investigate how the ocean and atmosphere are affecting the glacier	C-445  Karen Heywood C-445				
	The objectives will be achieved through high-resolution geophysical surveys of the seafloor and analysis of sediment cores from the inner shelf seaward of the Thwaites Glacier grounding line.	Julia Wellner C-447				
	Automatic Data Danasitanu fan NDD40 00	Robert Larter C-447				
BP19-03	Antarctic Data Repository for NBP19-02  OPEN PERIOD		3/26/2019	PU∩	4/29/2019	PUQ
BP19-04	OPEN PERIOD  OPEN PERIOD		4/30/2019		5/14/2019	PUQ
			5/15/2019			
BP19-04B	LOGISTICS RUN				5/23/2019	PUQ
BP19-05A	Transit		7/6/2019		7/13/2019	PUQ
3P19-05B	Drydock		7/13/2019		7/19/2019	PUQ
3P19-05C	Transit		7/19/2019	PUQ	7/25/2019	PUQ
BP19-06	OPEN PERIOD		7/26/2019	PUQ	8/5/2019	PUQ
BP19-07	OPEN PERIOD		8/6/2019	DLIO	9/4/2019	PUQ
BP19-08 BP19-09	OPEN PERIOD  OPEN PERIOD		9/5/2019		9/30/2019	PUQ PUQ
BP19-10	This project will integrate a modeling and field program that will target the	Josh Kohut	11/2/2019		12/15/2019	PUQ
	and how they influence primary production and the biogeochemical cycling of carbon and nitrogen.  This project will advance understanding of mixotroph diversity and their	B-005  Jodi Young B-234  Robert Sanders				
	ecological impact within the Southern Ocean microbial food web.	B-303	ī			

Cruise #	CRUISES by NAME	Pls	Departure	PORT	Arrival	PORT
NBP20-01	OPEN PERIOD		12/18/2019	PUQ	1/20/2020	PUQ
NBP20-02	This project will use an integrated suite of marine and sub-ice shelf research activities aimed at: *establishing boundary conditions seaward of the Thwaites Glacier grounding line*obtaining records of the external drivers of change, improving knowledge of processes leading to the collapse of Thwaites Glacier determining the history of past changes in grounding line migration and conditions at the glacier base	Julia Wellner C-447	1/25/2020	PUQ	3/28/2020	PUQ
	The objective of this project is to provide high spatially- and temporally-resolved hydrographic sections across the continental shelf and slope at the southern extent of the west Antarctic Peninsula, and further to the west into the Bellingshausen Sea and Belgica Trough, in order to examine the initiation of the Antarctic Slope Front ASF	Andrew Thompson O-124				
	This project aims to collect observations to determine the factors affecting two critical systems: the Thwaites Ice Shelf and the Dotson Ice Shelf. To do this, they will: (1) Install sensors on the ice shelves for two years to provide observations of ocean, glacier, and atmospheric conditions; (2) Measure ocean properties on the continental shelf near the ice-shelf fronts, and in sub-ice-shelf cavities to detail ocean transports and heat fluxes; and (3) Constrain current ice-shelf and sub-ice-shelf cavity geometry, ice flow, and firn properties to better understand the impact of ocean and atmosphere on the ice-sheet change.					
	To use our long term in situ measurements of ocean heat delivery to understand the major drivers of ice loss in some of the most rapidly retreating parts of the Antarctic ice sheet. The outcome from this research will inform projections for future ice sheet stability and global sea level projections. Our aims are to understand how ocean heat influences changes to Antarctic ice, and to reduce uncertainty in scientific predictions for a future world and to provide Government with scientific assessment of how these issues will affect the everyday lives of people in decades to come.	Adrian Jenkins X-590				
	The objective of this project is to provide high spatially- and temporally-resolved hydrographic sections across the continental shelf and slope at the southern extent of the west Antarctic Peninsula, and further to the west into the Bellingshausen Sea and Belgica Trough, in order to examine the initiation of the Antarctic Slope Front ASF					
	This project seeks to increase our understanding of the crucial role of the Southern Ocean in taking up anthropogenic carbon and heat from the atmosphere, and resupplying nutrients from the abyss to the surface.	Jorge Sarmiento O-271				
NBP20-03	LOGISTICS RUN		4/10/2020	PUQ	5/4/2020	OAK
NBP20-04	TRANSIT		5/10/2020	OAK	5/14/2020	EUR