



R/V NATHANIEL B. PALMER Cruise History

Port Key: ALB=Albany, West Australia; 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; PTH= Port Hueneme, CA; 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.

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
NBP92-1	Weddell-1 Rotation Cruise: Resupply/crew rotation of US-RUSSIA drifting ice camp Weddell Antarctic Data Repository for NBP92-01	Doug Martinson	4/16/1992	PUQ	5/16/1992	PUQ
NBP92-2	Weddell-1 Recovery Cruise: Joint cruise with A/K Akedemik Fedorov to recover US-RUSSIA drifting ice camp Antarctic Data Repository for NBP92-02	Arnold Gordon	5/20/1992	PUQ	6/22/1992	PUQ
NBP92-4	Research on Antarctic Ecological Rates Antarctic Data Repository for NBP92-04	Huntley/RACER	7/11/1992	PUQ	8/17/1992	PUQ
NBP92-5	Engineering Ice Trials Antarctic Data Repository for NBP92-05	Voelker	8/23/1992	PUQ	9/13/1992	PUQ
NBP92-6	Tropic Coupling Between Mesopelagic and Sea-Ice Communities in the Weddell Sea Antarctic Data Repository for NBP92-06	Ray Smith S-032	9/18/1992	PUQ	10/16/1992	PUQ
NBP92-7	Antarctic Bottom Water Formation Antarctic Data Repository for NBP92-07	Ted Foster S-206	10/22/1992	PUQ	12/3/1992	PUQ
NBP92-8	Marie Byrd Margin: Early Seafloor Spreading History Antarctic Data Repository for NBP92-08	Carol Raymond S-096	12/13/1992	PUQ	1/29/1993	PUQ
NBP93-1	Marine Heat Flow Around West Antarctica Antarctic Data Repository for NBP93-01	Larry Lawver S-087	2/4/1993	PUQ	3/20/1993	PUQ
NBP93-2	Long-Term Ecological Research on the Antarctic Marine Ecosystem (LTER): An Ice-Dominated Environment http://www.icess.ucsb.edu Antarctic Data Repository for NBP93-02	Robin Ross S-028 Eileen Hofmann S-021 Dave Karl S-046	3/25/1993	PUQ	5/15/1993	PUQ
NBP93-3	Seabirds Feeding on Krill Antarctic Data Repository for NBP93-03	Richard Veit	5/19/1993	PUQ	6/30/1993	PUQ
NBP93-4	Maintenance Antarctic Data Repository for NBP93-04	N/A	7/2/1993 8/1/1993	PUQ TAL	7/6/1993 8/5/1993	TAL PUQ
NBP93-5	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	Martin Jeffries S-286	8/10/1993	PUQ	9/30/1993	PUQ
NBP93-6	Effects of UV Radiation on Phytoplankton Photosynthesis in the Antarctic Marginal Ice Zone Antarctic Data Repository for NBP93-06	Patrick Neale S-007 Kenneth Mopper S-002	10/10/1993	PUQ	11/11/1993	PUQ
NBP93-7	High Resolution Seismic Stratigraphy of the Ross Sea: Implications for Cenozoic Eustatic and Climatic Change Antarctic Data Repository for NBP93-07	Lou Bartek S-088	12/4/1993	PUQ	1/18/1994	MCM
NBP94-1	Geologic Record of Late Wisconsin/Holocene Ice Sheet Advance and Retreat from Ross Sea Antarctic Data Repository for NBP94-01	John Anderson S-083	1/21/1994	MCM	2/12/1994	MCM
NBP94-2	Oceanography of the Amundsen and Bellingshausen Seas Antarctic Data Repository for NBP94-02	Stan Jacobs S-211	2/14/1994	MCM	4/5/1994	PUQ
NBP94-3	Maintenance	N/A	4/24/1995	PUQ	4/28/1994	PUQ
NBP94-4	Antarctic Zone Flux Experiment (ANZFLUX) http://www.oc.nps.navy.mil/~bird/ANZFLUX.html Antarctic Data Repository for NBP94-04	POC: Arlene Guest Miles McPhee Steve Ackley Peter Guest Vicki Lytle Doug Martinson Jamie Morison Robin Muench Laurie Padman Tim Stanton	6/27/1994	PUQ	8/24/1994	PUQ

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
NBP94-5	Sea Ice Physics-Structural Characteristics, Development and Synthetic Aperture Radar Signature in the Pacific Sector of the Southern Ocean Antarctic Data Repository for NBP94-05	Martin Jeffries S-286	9/10/1994	PUQ	10/20/1994	AUK
Maint./ Multi-beam Trials	Preliminary Multibeam Seatrials, AUK to LYT	N/A	10/21/1994	AUK	10/29/1994	LYT
NBP94-6	Collaborative Research on Bloom Dynamics and Food Web Structure in the Ross Sea Antarctic Data Repository for NBP94-06	Walker Smith G.R. DiTullio Hugh Ducklow S-047 PI Unknown S-217 David Nelson S-267 Vern Asper S-269 Marcia Gowing Evelyn Lessard David Garrison S-325	11/3/1994	LYT	12/19/1994	LYT
NBP94-7	Integrated Biostratigraphy and High Resolution Stratigraphy of the Ross Sea Antarctic Data Repository for NBP94-07	Lou Bartek S-088	12/29/1994	LYT	2/4/1995	MCM
NBP95-1	Geologic Record of Late Wisconsinian Holocene Ice Sheet Advance and Retreat from Ross Sea Antarctic Data Repository for NBP95-01	John Anderson S-083	2/7/1995	MCM	3/13/1995	LYT
NBP95-2	Deep-Water Formation off the Eastern Wilkes Land Coast of Antarctica Antarctic Data Repository for NBP95-02	Ted Foster S-206	3/16/1995	LYT	4/27/1995	HOB
NBP95-3	The Role of Snow in the Antarctic Sea-Ice Development and Ocean-Atmosphere Energy Exchange Antarctic Data Repository for NBP95-03	Martin Jeffries S-286	5/2/1995	HOB	6/21/1995	LYT
NBP95-4	Seabeam Test #2 Antarctic Data Repository for NBP95-04	N/A	7/1/1995	LYT	7/8/1995	AUK
Maintenance		N/A	7/10/1995	AUK	7/27/1995	LYT
NBP95-5	The Role of Snow in the Antarctic Sea-Ice Development and Ocean-Atmosphere Energy Exchange Antarctic Data Repository for NBP95-05	Martin Jeffries S-286	7/29/1995	LYT	9/17/1995	PUQ
NBP95-6	Seasonal Ice Cover and its Impact on Epipelagic Community in the Northwestern Ross Sea: Long Time-Series Monitoring Antarctic Data Repository for NBP95-06	Ken Smith S-050	9/22/1995	PUQ	10/22/1995	PUQ
NBP95-7	Neotectonic Evolution of Antarctic Peninsula/Scotia Sea Region Antarctic Data Repository for NBP95-07	Larry Lawver S-087 Gary Klinkhammer S-060	10/27/1995	PUQ	12/8/1995	LYT
NBP95-8	Collaborative Research on Bloom Dynamics and Food Web Structure in the Ross Sea Antarctic Data Repository for NBP95-08	Dave Garrison S-325	12/11/1995	LYT	1/17/1996	MCM
NBP96-1	Glacial Marine Stratigraphy in the Eastern Ross Sea and Western Marie Antarctic Data Repository for NBP96-01	Lou Bartek Bruce Luyendyk S-088	1/21/1996	MCM	2/20/1996	MCM
NBP96-2	Late Cretaceous - Early Tertiary Interactions in the South Pacific Antarctic Data Repository for NBP96-02	Steve Cande S-071	2/22/1996	MCM	4/7/1996	PUQ
NBP96-3	World Ocean Circulation Experiment (WOCE) http://www-ocean.tamu.edu/WOCE/uswoce.html Antarctic Data Repository for NBP96-03	WOCE S-229	5/3/1996	CPT	7/4/1996	HOB
NBP96-3A	Transit Antarctic Data Repository for NBP96-03A	N/A	8/19/1996	HOB	8/25/1996	LYT
NBP96-4	JGOFS Site Survey http://www.who.edu/ Antarctic Data Repository for NBP96-04	Bob Anderson S-211	8/30/1996	LYT	9/24/1996	LYT
NBP96-4A	JGOFS Process I http://www.who.edu/ Antarctic Data Repository for NBP96-04A	Walker Smith S-233; S-255	10/2/1996	LYT	11/8/1996	Ice Edge
NBP96-5	JGOFS Mooring Deployment http://www.who.edu/ Antarctic Data Repository for NBP96-05	Jack Dymond S-227	11/11/1996	Ice Edge	11/30/1996	LYT
NBP96-6	ROAVERS (Research on Ocean-Atmosphere Variability and Ecosystem Response in the Ross Sea) Antarctic Data Repository for NBP96-06	Rob Dunbar S-216	12/11/1996	LYT	1/8/1997	MCM
NBP97-1	JGOFS Process II http://www.who.edu/ Antarctic Data Repository for NBP97-01	John Marra S-232	1/13/1997	MCM	2/11/1997	MCM
NBP97-2	Early Tertiary Evolution of the Pacific-Australian-Antarctic Plate Circuit Antarctic Data Repository for NBP97-02	Steve Cande S-071	2/15/1997	MCM	3/24/1997	LYT
NBP97-3	JGOFS Process III http://www.who.edu/ Antarctic Data Repository for NBP97-03	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 Antarctic Data Repository for NBP97-04A	N/A	5/20/1997	AUK	6/7/1997	TAL

Cruise #	CRUISES by NAME	Pis	Departure	PORT	Arrival	PORT
NBP97-4B	Transit (Talchuan-Punta Arenas, Chile+B130) Antarctic Data Repository for NBP97-04B	N/A	7/20/1997	TAL	7/25/1997	PUQ
NBP97-5	DOVETAIL I & II http://www.esr.org/dovetail/dovetail.html Antarctic Data Repository for NBP97-05	Arnold Gordon Robin Muench S-203	8/1/1997	PUQ	9/6/1997	PUQ
NBP97-6A	Palmer Station Shuttle Antarctic Data Repository for NBP97-06A	N/A	9/14/1997	PUQ	9/24/1997	PUQ
NBP97-6B	Palmer Station Shuttle Antarctic Data Repository for NBP97-06B	N/A	9/27/1997	PUQ	10/4/1997	PUQ
NBP97-7	Transit (PA-Lyttelton) Antarctic Data Repository for NBP97-07	N/A	10/9/1997	PUQ	10/28/1997	LYT
NBP97-8	JGOFS Process IV Antarctic Data Repository for NBP97-08	Walker Smith S-233; S-255	11/5/1997	LYT	12/14/1997	Ice edge
NBP97-9	ROAVERRS (Research on Ocean-Atmosphere Variability & Ecosystem Response in the Ross Sea) Antarctic Data Repository for NBP97-09	Rob Dunbar S-216	12/20/1997	MCM	1/10/1998	MCM
NBP98-1	Timing of Retreat of the West Antarctic Ice Sheet Antarctic Data Repository for NBP98-01	John Anderson S-083	1/16/1998	MCM	2/19/1998	MCM
NBP98-2	JGOFS Benthic/Mooring Recovery http://www.whoi.edu/ Antarctic Data Repository for NBP98-02	Bob Anderson S-211	2/25/1998	MCM	4/3/1998	LYT
NBP98-3	Sea Ice Motion, Deformation and Thickness Distribution in the Ross Sea combined with Ecological Studies of Sea-Ice Communities in the Ross Sea Antarctic Data Repository for NBP98-03	Martin Jeffries S-286 Dave Garrison S-325	5/1/1998	LYT	6/20/1998	LYT
NBP98-4	Transit to PUQ Antarctic Data Repository for NBP98-04	N/A	6/20/1998	LYT	7/20/1998	PUQ
NBP98-5	Transit to Seattle, WA Antarctic Data Repository for NBP98-05	N/A	7/25/1998	PUQ	8/19/1998	SEA
NBP98-6	Transit to Honolulu, HI Antarctic Data Repository for NBP98-06	N/A	9/19/1998	SEA	9/29/1998	HON
NBP98-6A	Seabeam Testing and Transit to Apia, W. Samoa Antarctic Data Repository for NBP98-06A	N/A	10/3/1998	HON	10/13/1998	SAMOA
NBP98-6B	Transit to LYT Antarctic Data Repository for NBP98-06B	N/A	10/13/1998	SAMOA	10/26/1998	LYT
NBP98-7	ROAVERRS (Research on Ocean-Atmosphere Variability and Ecosystem Response in the Ross Sea) Antarctic Data Repository for NBP98-07	Rob Dunbar OR-216-A	11/2/1998	LYT	12/20/1998	LYT
NBP99-1	Protistan Biodiversity in Antarctic Marine Ecosystems: Molecular Biological and Traditional Approaches Sea Ice Motion, Deformation and Thickness Distribution in the Ross Sea combined with Ecological Studies of Sea-Ice Communities in the Ross Sea Ecological Studies of Sea-Ice Communities in the Ross Sea, Antarctica Antarctic Data Repository for NBP99-01	David Caron BO-207-O Martin Jeffries OX-286-O Marcia Gowing BX-325-O	12/26/1998	LYT	2/7/1999	MCM
NBP99-2	Timing of Retreat of the West Antarctic Ice Sheet Antarctic Data Repository for NBP99-02	John Anderson GO-083-O	2/12/1999	MCM	3/25/1999	PUQ
NBP99-3	Palmer Deep, Andvord Bay and Lallemand Fjord Geology and Geophysics Studies Antarctic Data Repository for NBP99-03	Eugene Domack GO-072-O	3/28/1999	PUQ	4/5/1999 4/11/1999	PAL PUQ
NBP99-4	Heat and Chemical Exchange During the Early Stages of Back-Arc Rifting in a Polar Region: Hydrothermal Activity in Bransfield Strait, Antarctica Antarctic Data Repository for NBP99-04	Gary Klinkhammer GO-060-O	4/15/1999	PUQ	5/10/1999	PUQ

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
NBP99-5	A Broadband Seismic Experiment for Study of the Tectonics and Structure of the Antarctic Peninsula and Scotia Plate Study of the Structure and Tectonics in the Bransfield Strait Area Antarctic Data Repository for NBP99-05	Douglas Wiens GO-097-O LeRoy Dorman GO-135-O	5/13/1999 6/2/1999	PUQ COPA	6/2/1999 6/6/1999	Brief COPA Call PUQ
NBP99-6	Long-Term Ecological Research on the Antarctic Marine Ecosystem (LTER): An Ice-Dominated Environment Ice Cruise http://www.ices.ucsb.edu Antarctic Data Repository for NBP99-06	William Fraser BP-013-N Maria Vernet BP-016-N Doug Martinson BP-021 Langdon Quetin & Robin Ross BP-028-N Ray Smith BP-032-N Dave Karl BP-046-N	6/11/1999	PUQ	7/16/1999	PUQ
NBP99-7	Transit from Punta Arenas to TAL for Maintenance Period	N/A	7/21/1999	PUQ	7/26/1999	TAL
NBP99-8	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP99-08	Steve Cande GO-071	8/17/1999	TAL	9/8/1999	LYT
Open Period	Open Period through Dec. 22, 1999	N/A	9/8/1999	LYT	12/20/1999	LYT
NBP99-9	Antarctic Pack Ice Seals http://nmml.afsc.noaa.gov/apis/apis.htm Antarctic Data Repository for NBP99-09	John Bengston BE-198-A	12/20/1999	LYT	2/10/2000	MCM
NBP00-1	Study of the Circumpolar Deep Water and its Affects on the West Antarctic Ice Sheet and Pine Island Glacier Glacial History of the Amundsen Sea Shelf Antarctic Data Repository for NBP00-01	Stanley Jacobs OO-274-O Tom Kellogg GO-307-O	2/15/2000	MCM	3/31/2000	PUQ
NBP00-2	The Young Marginal Rift as a Key to Understanding the Rift-Drift Transition and Andean Orogenesis: OBS Refraction Profiling for Crustal Structure in the Bransfield Strait Antarctic Data Repository for NBP00-02	Jamie Austin GO-306-O	4/5/2000	PUQ	5/6/2000	PUQ
NBP00-3	Prehistory of the Larsen Ice Shelf: Evidence from the Marine Record Antarctic Data Repository for NBP00-03	Eugene Domack GO-096-O	5/10/2000	PUQ	6/1/2000	PUQ
NBP00-4	Benthic-Pelagic Coupling on the West Antarctic Shelf: The Impact and Fate of Bloom Material on the Seafloor Antarctic Data Repository for NBP00-04	Craig Smith BO-303-O David Demaster BO-313-O	6/5/2000	PUQ	6/24/2000	PUQ
NBP00-5	Palmer Station Hazardous Waste Pickup from Palmer Station, Antarctica Antarctic Data Repository for NBP00-05	N/A	7/3/2000 7/11/2000	PUQ PAL	7/7/2000 7/15/2000	PAL PUQ
NBP00-6A	Hazardous Waste Transport to Louisiana & "Science of Opportunity" cruise in support of BO-200-O Antarctic Data Repository for NBP00-06A	Wade Jeffrey BO-200-O	7/19/2000	PUQ	8/12/2000	FCH
Open Period	Seismic System and SeaBeam Sea Trials Preparation Vessel Modifications Begins NASB/ECO	N/A	9/3/2000	FCH	At	FCH
NBP00-6B	Acoustic Trials Conducted for USAP Research Vessel- Icebreaker Re-bid. ARVOC Meeting also held in New Orleans	N/A	9/3/2000 9/9/2000	FCH FCH	9/5/2000 9/10/2000	NOL FCH
Open Period	Seismic System and SeaBeam Sea Trials Preparation Vessel Modifications Continue NASB/ECO	N/A	9/25/2000	FCH	At	FCH
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 Antarctic Data Repository for NBP00-06D	N/A	10/5/2000	PAN	10/22/2000	PUQ
NBP00-7A	The Young Marginal Rift as a Key to Understanding the Rift-Drift Transition and Andean Orogenesis: OBS Refraction Profiling for Crustal Structure in the Bransfield Strait Antarctic Data Repository for NBP00-07A	Jamie Austin GO-306-O	10/27/2000	PUQ	11/18/2000	PUQ
NBP00-7B	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP00-07B	Steve Cande GO-071-O	11/19/2000 12/12/2000	PUQ LYT	12/11/2000 12/17/2000	LYT HOB
NBP00-8	Shelf and Bottom Water Formation Near East Antarctic Polynyas and Glaciers Circumpolar Deep Water and the West Antarctic Ice Sheet Antarctic Data Repository for NBP00-08	Richard Fairbanks OO-225-O Stan Jacobs OO-274-O	12/20/2000	HOB	1/25/2001	HOB
NBP01-1	Quaternary Glacial History and Paleoenvironments of the East Antarctic Margin POC Production and Export in the Indian Sector of the Southern Ocean: (mooring recovery) Antarctic Data Repository for NBP01-01	Amy Leventer GO-073-O Cynthia Pilskaln OO-278-O	1/30/2001	HOB	3/28/2001	CPT
NBP01-2	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP01-02	Joann Stock GO-071-O	4/1/2001	CPT	4/18/2001	PUQ
NBP01-3	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC): Circulation and Water Property Evolution SO GLOBEC: Water-column nutrient analysis SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area SO GLOBEC: Hydrographic modeling, both biological and physical	Robert Beardsley OG-231-O Kent Fanning OG-233-O John Hildebrand BG-239-O Eileen Hofmann OG-240-O	4/23/2001	PUQ	6/6/2001	PUQ

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
	SO GLOBEC: Seabird distribution and abundance SO GLOBEC: Water-column phytoplankton primary productivity SO GLOBEC: Zooplankton distribution, abundance in the water column and sea-ice/water column boundary http://www.ccpo.odu.edu/Research/globec_menu.html Antarctic Data Repository for NBP01-03	Chris Ribic BG-243-O Maria Vernet BG-246-O Peter Wiebe BG-247-O				
NBP01-4	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC): Circulation and Water Property Evolution SO GLOBEC: Water-column nutrient analysis SO GLOBEC: Winter distribution and activities of sea-ice microbial communities in the western Antarctic peninsula SO GLOBEC: Krill distribution, physiology, and predations; Copepod prey abundance SO GLOBEC: Mesoscale Circulation, Tides, and Mixing SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area SO GLOBEC: Hydrographic modeling, both biological and physical SO GLOBEC: Small scale mixing and krill behavior study using microstructure profiling/krill swarm model SO GLOBEC: Seabird distribution and abundance SO GLOBEC: Water-column phytoplankton primary productivity SO GLOBEC: Zooplankton distribution, abundance in the water column and sea-ice/water column boundary SO GLOBEC: Krill distributions, physiology and predation; Copepod Prey Abundance http://www.ccpo.odu.edu/Research/globec_menu.html Antarctic Data Repository for NBP01-04	Robert Beardsley OG-231-O Kent Fanning OG-233-O Chris Fritsen BG-235-O Kendra Daly BG-236-O Laurence Padman OG-238-O John Hildebrand BG-239-O Eileen Hofmann OG-240-O Tom Powell OG-242-O Chris Ribic BG-243-O Maria Vernet BG-246-O Peter Wiebe BG-247-O Meng Zhou BG-248-O	7/21/2001	PUQ	8/31/2001	PUQ
NBP01-5	Long-Term Ecological Research on the Antarctic Marine Ecosystem (LTER): An Ice-Dominated Environment http://www.icess.ucsb.edu Antarctic Data Repository for NBP01-05	William Fraser BP-013-N Maria Vernet BP-016-N Doug Martinson BP-021-N Langdon Quetin & Robin Ross BP-028-N Ray Smith BP-032-N Dave Karl BP-046-N	9/7/2001	PUQ	10/26/2001	PUQ
Open Period		N/A	10/27/2001	PUQ	11/8/2001	PUQ
NBP01-6	Acquisition and Operation of Broadband Seismograph Equipment at Chilean Bases in the Antarctic Peninsula Region http://levee.wustl.edu/seismology/SEPA/ CORC-Arches Open Cape Sherriff Field Camp Antarctic Data Repository for NBP01-06	Doug Wiens GO-097-O Martin Visbeck OO-124-O	11/9/2001 11/13/2001 11/15/2001	PUQ PAL CS	11/13/2001 11/15/2001 11/30/2001	PAL CS PUQ
NBP01-7	Global Climate Change and the Evolutionary Ecology of Antarctic Mollusks in the Late Eocene Development of a Luminescence Dating Capability for Antarctic Glaciomarine Sediments: Tests of Signal Zeroing at the Antarctic Peninsula Antarctic Data Repository for NBP01-07	Richard Aronson GO-065-O Glenn Berger GO-092-O	12/5/2001	PUQ	1/13/2002	PUQ
NBP02-1	Late Pleistocene to Holocene Glacial History of West Antarctica Antarctic Data Repository for NBP02-01	John Anderson GO-083-O	1/18/2002	PUQ	3/4/2002	PUQ
NBP02-1A	Open Period	NA	3/5/2002	PUQ	3/9/2002	PUQ
NBP02-1B	Seismic Streamer Sea Trials Antarctic Data Repository for NBP02-01B	NA	3/10/2002	PUQ	3/16/2002	PUQ
NBP02-1C	Open Period	NA	3/17/2002	PUQ	4/8/2002	PUQ
NBP02-2	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC): Circulation and Water Property Evolution SO GLOBEC: Water-column nutrient analysis SO GLOBEC: Krill distribution, physiology, and predations; Copepod prey abundance SO GLOBEC: Mesoscale Circulation, Tides, and Mixing SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area SO GLOBEC: Hydrographic modeling, both biological and physical SO GLOBEC: Seabird distribution and abundance	Robert Beardsley OG-231-O Kent Fanning OG-233-O Kendra Daly BG-236-O Laurence Padman OG-238-O John Hildebrand BG-239-O Eileen Hofmann OG-240-O Chris Ribic BG-243-O	4/9/2002	PUQ	5/21/2002	PUQ

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	SO GLOBEC: Water-column phytoplankton primary productivity SO GLOBEC: Zooplankton distribution, abundance in the water column and sea-ice/water column boundary http://www.ccpo.odu.edu/Research/globec_menu.html Antarctic Data Repository for NBP02-02	Maria Vernet BG-246-O Peter Wiebe BG-247-O				
NBP02-3	Dry Dock and Maintenance Period Antarctic Data Repository for NBP02-03	NA	5/25/2002 7/15/2002 7/20/2002	PUQ TAL PMC	5/30/2002 7/19/2002 7/24/2002	TAL PMC PUQ
NBP02-4	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC): Circulation and Water Property Evolution SO GLOBEC: Water-column nutrient analysis SO GLOBEC: Winter distribution and activities of sea-ice microbial communities in the western Antarctic peninsula SO GLOBEC: Krill distribution, physiology, and predations; Copepod prey abundance SO GLOBEC: Mesoscale Circulation, Tides, and Mixing SO GLOBEC: Hydrographic modeling, both biological and physical SO GLOBEC: Seabird distribution and abundance SO GLOBEC: Krill Physiology and Fish Ecology SO GLOBEC: Water-column phytoplankton primary productivity SO GLOBEC: Zooplankton distribution, abundance in the water column and sea-ice/water column boundary SO GLOBEC: Krill distributions, physiology and predation; Copepod Prey Abundance http://www.ccpo.odu.edu/Research/globec_menu.html Antarctic Data Repository for NBP02-04	Robert Beardsley OG-231-O Kent Fanning OG-233-O Chris Fritsen BG-235-O Kendra Daly BG-236-O Laurence Padman OG-238-O Eileen Hofmann OG-240-O Chris Ribic BG-243-O Jose Torres BG-245-O Maria Vernet BG-246-O Peter Wiebe BG-247-O Meng Zhou BG-248-O	7/31/2002	PUQ	9/18/2002	PUQ
NBP02-5	Latitudinal Effects of UVR on bacterioplankton: BRIDE of TABASCO Antarctic Data Repository for NBP02-05	Wade Jeffrey BO-200-O	9/23/2002 9/29/2002	PUQ VAL	9/29/2002 10/19/2002	VAL SAN
NBP02-5a	Maintenance Period	NA	10/19/2002	SAN	10/28/2002	SAN
NBP02-6	Seismic System Testing Antarctic Data Repository for NBP02-06	NA	10/29/2002	SAN	11/3/2002	Sea-LA
NBP02-6a	Simrad multibeam and dynamic position test/Coring Antarctic Data Repository for NBP02-06A	NA	11/3/2002 11/6/2002	Sea-LA Sea-SBA	11/6/2002 11/8/2002	Sea-SBA PTH
NBP02-7	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP02-07	Steve Cande Joann Stock GO-071-O	11/10/2002	PTH	12/6/2002	LYT
NBP02-8	Open Period	NA	12/6/2002	LYT	12/11/2002	LYT
NBP02-9	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP02-09	Joann Stock Steve Cande GO-071-O	12/12/2002	LYT	1/1/2003	MCM
NBP03-1	Collaborative Research: Antarctic Cretaceous-Cenozoic Climate, Glaciation, and Tectonics: Site Surveys for drilling from the edge of the Ross Ice Shelf Antarctic Data Repository for NBP03-01	Lou Bartek Bruce Luyendyk GO-152-O	1/5/2003	MCM/Ice Edge	1/30/2003	MCM
NBP03-1a	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	2/2/2003	MCM/Ice Edge	2/20/2003	MCM/Ice Edge
NBP03-1b	Interannual Variability in the Antarctic-Ross Sea: Nutrient fields and seasonal productivity II (IVARS) Mooring Recovery Support- USCG cutter not available as originally planned Antarctic Data Repository for NBP03-01B	Walker Smith Vern Asper BO-047-O	2/20/2003	MCM/Ice Edge	2/22/2003	MCM/Ice Edge
NBP03-2 ANSLOPE I	Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE) http://www.ideo.columbia.edu/res/div/ocp/projects/anslope.shtml Antarctic Data Repository for NBP03-02	Arnold Gordon OO-215-O	2/25/2003	MCM/Ice Edge	4/9/2003	LYT
NBP03-3	Maintenance Period	NA	4/13/2003	At LYT	5/13/2003	At LYT
NBP03-4 Northbound transit to AK	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP03-04	Steve Cande Joann Stock GO-071-O	5/23/2003 6/24/2003	LYT HON	6/11/2003 7/2/2003	HON DH
NBP03-4A Arctic Cruise	Western Arctic Shelf-Basin Interaction http://nsidc.org/arcss/projects/sbi.html Antarctic Data Repository for NBP03-04A	Jim Swift O-287-N	7/5/2003	DH	8/18/2003	BRW
NBP03-4B	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	Steve Cande Joann Stock GO-071-O Wade Jeffrey BO-200-N	8/22/2003 8/30/2003	BRW DH	8/26/2003 9/8/2003	DH HON
NBP03-4C	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Production Observation Through Another Translatitudinal Oceanic Antarctic Data Repository for NBP03-04C	Steve Cande Joann Stock GO-071-O Wade Jeffrey BO-200-N	9/14/2003	HON	10/8/2003	NAP

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
NBP03-4D	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Production Observation Through Another Translatitudinal Oceanic Expedition (POTATOE) Antarctic Cruise Depository for NBP03-04D	Steve Cande Joann Stock GO-071-O Wade Jeffrey BO-200-N	10/9/2003	NAP	10/14/2003	LYT
Open Period		NA	10/15/2003	LYT	10/21/2003	LYT
NBP03-5	Interactive Effects of UV Radiation and Vertical Mixing on Phytoplankton and Bacterioplankton in the Ross Sea 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	Pat Neale B-203-N	10/27/2003	LYT	11/19/2003	LYT
	Vessel off hire for Main Engine repairs	NA	11/23/2003	LYT	12/12/2003	LYT
NBP03-5A	Interannual Variability in the Antarctic-Ross Sea (IVARS): Nutrients and Seasonal Production http://www.vims.edu/research/units/legacy/ivars/index.php Antarctic Data Repository for NBP03-05A	Walker Smith B-047-N	12/18/2003	LYT	1/1/2004	MCM/Ice Edge
NBP03-6	Collaborative Research: Antarctic Cretaceous-Cenozoic Climate, Glaciation, and Tectonics: Site surveys for drilling from the edge of the Ross Ice Shelf Antarctic Data Repository for NBP03-06	Lou Bartek Bruce Luyendyk G-152-N	1/5/2004	MCM/Ice Edge	1/17/2004	MCM/Ice Edge
NBP04-1	Neotectonic Structure of Terror Rift, Western Ross Sea Antarctic Data Repository for NBP04-01	Terry Wilson Larry Lawver G-099-N	1/19/2004	MCM/Ice Edge	2/18/2004	MCM/Ice Edge
NBP04-2	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 NBP04-02	Arnold Gordon O-215-N	2/23/2004	MCM/Ice Edge	4/9/2004	LYT
NBP04-3	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP04-03	Steve Cande Joann Stock G-071-N	4/15/2004	LYT	5/9/2004	PUQ
NBP04-4	International Collaborative Expedition to Collect and Study Fish Indigenous to Sub-Antarctic Habitats (ICEFISH) Antarctic Data Repository for NBP04-04	Bill Detrich B-039-N	5/17/2004	PUQ	7/17/2004	CPT
NBP04-5	Sea Trials: Dynamic Positioning System/SIMRAD Sea-floor beacons Antarctic Data Repository for NBP04-05	N/A	7/22/2004	CPT	7/26/2004	CPT
NBP04-6	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP04-06	Steve Cande Joann Stock G-071-N	7/27/2004	CPT	8/29/2004	LYT
NBP04-6AA	Transit to Auckland, NZ Drydock Antarctic Data Repository for NBP04-06AA	N/A	8/30/2004	LYT	9/2/2004	AUK
NBP04-7	DP System and ADCP Sea Trials Antarctic Data Repository for NBP04-07	N/A	10/4/2004	AUK	10/9/2004	LYT

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NBP04-8	Collaborative Research: Cross-slope exchanges at the Antarctic Slope Front (ANSLOPE) http://www.ideo.columbia.edu/res/div/ocp/projects/anslope.shtml Antarctic Data Repository for NBP04-08	Arnold Gordon O-215-N	10/12/2004 11/7/2004	LYT Timaru, NZ	11/6/2004 12/7/2004	Timaru, NZ LYT
NBP04-9	Impact of solar radiation and nutrients on biogeochemical cycling of DMSP and DMS in the Ross Sea http://www.southalabama.edu/marinesciences/fac_kiene.html http://www.esf.edu/chemistry/kieber/kieber.htm Antarctic Data Repository for NBP04-09	Ronald Kiene B-002-N David Kieber B-266-N	12/18/2004	LYT	1/25/2005	MCM
NBP05-01	ANSLOPE mooring recovery Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Interannual Variability in the Antarctic-Ross Sea (IVARS): Nutrients and Seasonal Production http://www.vims.edu/research/units/legacy/ivars/index.php Antarctic Data Repository for NBP05-01	Arnold Gordon O-215-N Steve Cande Joann Stock G-071-N Walker Smith B-047-N	1/28/2005	MCM	2/15/2005	LYT
NBP05-01A	Maintenance Period	N/A	2/17/2005	LYT	3/3/2005	LYT
NBP05-01B Transit to Chile	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP05-01B	Steve Cande Joann Stock G-071-N	3/3/2005	LYT	3/23/2005	PUQ
NBP05-02	Shallow Drilling on the Antarctic Continental Margin (SHALDRIL) http://shaldril.rice.edu/index.html Antarctic Data Repository for NBP05-02	John Anderson G-083-N	3/31/2005	PUQ	4/23/2005	PUQ
NBP05-03	Open Period - Punta Arenas, Chile	N/A	5/1/2005	PUQ	6/19/2005	PUQ
Due to late scheduling changes there was no cruise NBP05-04.						
NBP05-05	Collaborative Research: Controls on Sediment Yields from Tidewater Glaciers from Patagonia to Antarctica Antarctic Data Repository for NBP05-05	Bernard Hallet G-411-N	6/23/2005 7/8/2005	PUQ PUQ	7/8/2005 7/14/2005	PUQ PUQ
NBP05-06	Maud Rise Non-linear Equation of State Study (MaudNESS) http://www.oc.nps.navy.mil/~stanton/thermo/Maudness/MaudnessMainHome	Miles McPhee O-325-N	7/20/2005	PUQ	9/18/2005	PUQ
NBP05-07	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP05-07	Steve Cande Joann Stock G-071-N	9/23/2005	PUQ	10/21/2005	LYT
NBP05-08	Interactive Effects of UV Radiation and Vertical Mixing on Phytoplankton and Bacterioplankton in the Ross Sea Antarctic Data Repository for NBP05-08	Patrick Neale B-023-N	10/26/2005	LYT	12/12/2005	LYT
NBP06-01	Interaction of iron, light and CO2 on phytoplankton community dynamics in the Ross Sea Antarctic Data Repository for NBP06-01	Giacomo DiTullio B-272-N	12/17/2005	LYT	1/30/2006	MCM
NBP06-01A	Interannual variability in the Antarctic - Ross Sea (IVARS): Nutrients and Antarctic Data Repository for NBP06-01A	Walker Smith B-047-N	1/31/2006	MCM	2/2/2006	MCM
NBP06-02	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP06-02	Steve Cande Joann Stock G-071-N	2/3/2006	MCM	3/23/2006	PUQ
NBP06-02A	Shallow drilling along the Antarctic continental margin (SHALDRIL): A demonstration drilling cruise to the James Ross Basin Antarctic Data Repository for NBP06-02A	John Anderson B-023-N	2/28/2006	PUQ	4/5/2006	PUQ
NBP06-03	Paleohistory of the Larsen Ice Shelf System Antarctic Data Repository for NBP06-03	Eugene Domack G-096-L	4/11/2006	PUQ	5/6/2006	PUQ
NBP06-03A	Open Period	N/A	5/11/2006	PUQ	6/1/2006	PUQ
NBP06-04	Open Period due to PRIMO postponement	N/A	6/6/2006	PUQ	6/26/2006	PUQ
Note: there was no NBP06-05						
NBP06-06	Plankton community structure and iron distribution in the southern Drake Passage and Scotia Sea Antarctic Data Repository for NBP06-06	Greg Mitchell B-228-N	7/3/2006	PUQ	8/15/2006	PUQ
NBP06-07	Open Period	N/A	8/18/2006	PUQ	8/27/2006	PUQ
NBP06-07A	Late Cretaceous and Cenozoic Reconstructions of the Southwest Pacific Antarctic Data Repository for NBP06-07A	Joann Stock Steve Cande G-071-N	8/28/2006	PUQ	9/22/2006	LYT
NBP06-07B	Open Period	N/A	9/24/2006	LYT	10/9/2006	LYT
NBP06-07C	MCS Sea Trials	N/A	10/10/2006	LYT	10/24/2006	LYT
NBP06-08	Interaction of iron, light and CO2 on phytoplankton community dynamics in the Ross Sea. Antarctic Data Repository for NBP06-08	Giacomo DiTullio B-272-N	11/1/2006	LYT	12/15/2006	LYT
NBP07-01	The connection between mid-Cenozoic seafloor spreading and the western Ross Sea Embayment Antarctic Data Repository for NBP07-01	Steve Cande G-413-N Paterno Castillo G-430-N	12/22/2006	LYT	1/29/2007	MCM

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NBP07-02	The Amundsen Continental Shelf and the Antarctic Ice Sheet Antarctic Data Repository for NBP07-02	Stan Jacobs O-274-N Bruce Huber O-399-N	2/3/2007	MCM	3/25/2007	PUQ
NBP07-03	Collaborative Research: Controls on Sediment Yields from Tidewater Glaciers from Patagonia to Antarctica Antarctic Data Repository for NBP07-03	John Anderson G-435-N Bernard Hallet G-411-N	3/31/2007	PUQ	5/4/2007	PUQ
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
NBP07-07	Transit from Talcahuano to Punta Arenas	N/A	7/28/2007	TAL	8/2/2007	PUQ
NBP07-08	Open Period	N/A	8/2/2007	PUQ	8/27/2007	PUQ
NBP07-09	Sea Ice Mass Balance in the Antarctic (SIMBA) Antarctic Data Repository for NBP07-09	Steve Ackley O-270-N	9/1/2007 9/8/2007 9/20/2007	PUQ PAL PUQ	9/6/2007 9/12/2007 10/31/2007	PAL PUQ PUQ
NBP07-10	Collaborative Research: Dynamics and transport of the Antarctic Circumpolar Current in Drake Passage Antarctic Data Repository for NBP07-10	Teri Chereskin O-313-N	11/13/2007	PUQ	12/7/2007	PUQ
NBP07-11	Transit		12/12/2007	PUQ	1/4/2008	LYT
NBP08-01	Collaborative Research: Do crustacean zooplankton play a pivotal role in structuring heterotrophic plankton communities. Cape Adare Long-term Mooring (CALM) Antarctic Data Repository for NBP08-01	Dave Caron B-245-N Bruce Huber O-399-N	1/9/2008	LYT	1/27/2008	MCM
NBP08-02	Collaborative Research: Do crustacean zooplankton play a pivotal role in structuring heterotrophic plankton communities. Ross-Sea outer continental shelf morphology and near-surface stratigraphy: Quaternary ice-sheet grounding-zone migrations and the LGM dilemma Antarctic Data Repository for NBP08-02	Dave Caron B-245-N Phil Bart G-154-N	1/30/2008	MCM	2/21/2008	MCM
NBP08-03	Ross-Sea outer continental shelf morphology and near-surface stratigraphy: Quaternary ice-sheet grounding-zone migrations and the LGM dilemma Antarctic Data Repository for NBP08-03	Phil Bart G-154-N	2/22/2008	MCM	3/15/2008	LYT
NBP08-04	Collection of marine geophysical data on transits of the Nathaniel B. Palmer Antarctic Data Repository for NBP08-04	Joann Stock G-071-N	3/20/2008	LYT	4/14/2008	PUQ
NBP08-05	Central Scotia Sea floor and the Drake Passage deep ocean current gateway Glacial radiocarbon constraints from Drake Passage deep-sea corals Antarctic Data Repository for NBP08-05	Ian Dalziel G-087-N Laura Robinson G-290-N	4/18/2008	PUQ	5/25/2008	PUQ
NBP08-06	Free drifting icebergs: Influence of floating islands on pelagic ecosystems in the Weddell Sea Antarctic Data Repository for NBP08-06	Ken Smith B-050-N	5/31/2008	PUQ	6/30/2008	PUQ
NBP08-07	Open Period	N/A	7/3/2008	PUQ	7/7/2008	PUQ
NBP08-08	Collaborative Research: Benthic faunal feeding dynamics on the Antarctic Shelf and the effects of global climate change on benthic-pelagic coupling. Antarctic Data Repository for NBP08-08	David DeMaster B-237-N Craig Smith B-212-N	7/10/2008	PUQ	8/4/2008	PUQ
NBP08-09	Open Period USCG/ABS Inspections 8/15/2008	N/A	8/8/2008	PUQ	9/5/2008	PUQ
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 Circumpolar Current in Drake Passage Antarctic Data Repository for NBP08-12	Teri Chereskin	11/20/2008	PUQ	12/13/2008	PUQ
NBP08-13	Open Period; LARISSA Helo Inspection; NSF Job Walk	N/A	12/14/2008	PUQ	12/23/2008	PUQ
NBP09-01	Collaborative International Research: Amundsen Sea Influence on West Antarctic Ice Sheet Stability and Sea Level Rise Shedding dynamic light on iron limitation: The interplay of iron limitation and dynamic irradiance conditions in governing the phytoplankton distribution in the Ross Sea Collaborative Research: Sampling the ocean - sea ice interaction in the Pacific center of the Antarctic Dipole Antarctic Data Repository for NBP09-01	Stan Jacobs O-274-N Kevin Arrigo O-216-N Xiaojun Yuan O-261-N	1/5/2009	PUQ	2/26/2009	PUQ
NBP09-02	Free drifting icebergs: Influence of floating islands on pelagic ecosystems in the Weddell Sea Antarctic Data Repository for NBP09-02	Ken Smith B-050-N	3/6/2009	PUQ	4/14/2009	PUQ
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
Note: there was no NBP09-04						
NBP09-05	Drydock and Maintenance Period (three weeks)	N/A	9/12/2009	PMC	9/14/2009	TAL
NBP0905A	Equipment Test Cruise	N/A	10/8/2009 10/13/2009	TAL PMC	10/12/2009 10/17/2009	PMC PUQ
NBP09-06	Open Period	N/A	10/17/2009	PUQ	11/13/2009	PUQ
Note: there was no NBP09-07						

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NBP09-08	Collaborative Research: Dynamics and transport of the Antarctic Circumpolar Current in Drake Passage Antarctic Data Repository for NBP09-08	Teri Chereskin O-313-N	11/19/2009 12/3/2009 12/5/2009	PUQ PAL ROT	12/3/2009 12/5/2009 12/19/2009	PAL ROT PUQ
NBP10-01	LARsen Ice Shelf System, Antarctica (LARISSA) Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Antarctic Data Repository for NBP10-01	Eugene Domack C-515-N Maria Vernet C-246-N Ted Scambos C-514-N	1/4/2010	PUQ	3/1/2010	PUQ
NBP10-02	Collaborative research: Possible climate-induced change in the distribution of Pleuragramma antarcticum on the Western Antarctic Peninsula shelf. WAP-flux: New Tools to Study the Fate of Phytoplankton Production in the West Antarctic Peninsula Reconciling the marine and terrestrial records of glaciation of the South Shetland Islands Antarctic Data Repository for NBP10-02	Joseph Torres B-258-N Kenneth Buessler O-288-N Alexander Simms G-116-E	3/16/2010	PUQ	5/1/2010	PUQ
NBP10-03	Collaborative Research: the ecological role of a poorly studied Antarctic krill predator: the humpback whale, Megaptera novaeangliae Antarctic Data Repository for NBP10-03	Douglas Nowcek B-249-N	5/7/2010	PUQ	6/11/2010	PUQ
NBP10-03B	Open Period, Puerto Natales, Chile	N/A	6/19/2010 9/15/2010	PUQ PNT	6/20/2010 9/16/2010	PNT PUQ
NBP10-04	Collaborative Research: Dynamics and transport of the Antarctic Circumpolar Current in Drake Passage Antarctic Data Repository for NBP10-04	Teri Chereskin O-313-N	10/23/2010	PUQ	11/15/2010	PUQ
NBP10-05	Collaborative Research: ASPIRE (Amundsen Sea Polynya International Research Expedition) Antarctic Data Repository for NBP10-05	Patricia Yager B-388-N	11/26/2010	PUQ	1/17/2011	MCM
NBP11-01	Collaborative Research: Modified Circumpolar Deep Water intrusions as an iron source to the summer Ross Sea ecosystem Antarctic Data Repository for NBP11-01	Josh Kohut O-216-N Adam Kustka O-216-N	1/19/2011	MCM	2/15/2011	MCM
NBP11-02	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP11-02	Jim Swift O-287-N	2/19/2011	MCM	4/23/2011	PUQ
NBP11-03	Collaborative Research: Historic Perspectives on Climate and Biogeography from Deep-Sea Corals in the Drake Passage Antarctic Data Repository for NBP11-03	Laura Robinson G-290-N	5/9/2011	PUQ	6/11/2011	PUQ
NBP11-04	Open Period Palmer Station Medevac	N/A	6/11/2011 6/22/2011 9/3/2011 9/5/2011 9/8/2011	PUQ PUQ PNT PUQ PAL	6/22/2011 6/23/2011 9/4/2011 9/8/2011 9/11/2011	PUQ PNT PUQ PAL PUQ
NBP11-05	Using molecular data to test connectivity and the circumpolar paradigm for Antarctic marine invertebrates. Antarctic Data Repository for NBP11-05	Nerida Wilson B-465-N	9/17/2011	PUQ	11/4/2011	PUQ
NBP11-06	Open Period	N/A	11/10/2011	PUQ	11/13/2011	PUQ
NBP11-07	Collaborative Research: Dynamics and Transport of the Antarctic Circumpolar Current in Drake Passage Antarctic Data Repository for NBP11-07	Teresa Chereskin O-313-N	11/18/2011	PUQ	12/11/2011	PUQ
NBP12-01	Impact of mesoscale processes on iron supply and phytoplankton dynamics in the Ross Sea Antarctic Data Repository for NBP12-01	Dennis McGillicuddy B-318-N	12/24/2011	PUQ	2/8/2012	MCM
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) Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach - Marine and Quaternary Antarctic Data Repository for NBP12-03	Maria Vernet C-246-N Bruce Huber O-399-N Eugene Domack C-515-N	3/1/2012	PUQ	4/19/2012	PUQ
NBP12-04	Transit to dry dock maintenance 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 B-006-N	8/1/2012	PUQ	8/17/2012	PUQ
NBP12-08	Seismic Sea Trials	N/A	8/31/2012	PUQ	9/5/2012	PUQ

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NBP12-09	Open Period	N/A	9/5/2012	PUQ	12/31/2012	PUQ
NBP12-10	Genetic connectivity and Biogeographic Patterns of Antarctic Benthic Invertebrates Antarctic Data Repository for NBP12-10	Ken Halanych B-281-N	1/6/2013	PUQ	2/9/2013	MCM
NBP13-02	Pre and Post molt biology of emperor penguins Collaborative Research: Tracing the fate of Algal Carbon Export in the Ross Sea (TRACERS) Collaborative Research: Sampling the ocean- Sea ice interaction in the Pacific Center of the Antarctic Dipole Antarctic Data Repository for NBP13-02	Gerald Kooyman B-464-N Dennis Hansell O-309-N Xiaojun Yuan O-261-N	2/13/2013	MCM	4/5/2013	PUQ
NBP13-03	Using molecular data to test connectivity and the circumpolar paradigm for Antarctic marine invertebrates Antarctic Data Repository for NBP13-03	Greg Rouse B-465-N Nerida Wilson	4/9/2013	PUQ	5/9/2013	PUQ
NBP13-04	Seasonal Trophic Roles of Euphausia superba (STRES) in the Wilhelmina Bay region Antarctic Data Repository for NBP13-04	Edwin Durbin B-014-N	5/13/2013	PUQ	6/12/2013	PUQ
NBP13-05A	Transit to Valparaiso, Chile		6/16/2013	PUQ	6/22/2013	VAL
NBP13-05	Study the low oxygen water column in the Eastern tropical South Pacific. Study microbial nitrogen transformations unique to this region. Antarctic Data Repository for NBP13-05	Allan Devol O-213-N	6/24/2013	VAL	7/27/2013	VAL
NBP13-06	at Valparaiso, Chile		7/27/2013	VAL	8/7/2013	VAL
No NBP13-07 or 08						
NBP13-09	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 NBP13-09	George Watters B-006-N	8/10/2013	PUQ	9/10/2013	PUQ
NBP13-10A	Measure hydrography, tracer, and turbulence levels along the Phoenix Ridge and Shackleton Fracture Zone in Drake Passage	James Ledwell O-124-N	10/23/2013	PUQ	11/13/2013	PUQ
NBP13-10	Through combination of field and laboratory based studies to identify the environmental factors that control the distribution of Phaeocystis antarctica 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 potentially invading, predatory king crabs in the Bellingshausen Sea. Data 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	Kevin Arrigo B-244-N Richard Aronson B-002-N	11/18/2013	PUQ	1/23/2014	HOB
NBP14-02	Reconnaissance survey of the region of the Totten Glacier to: evaluate the recent behavior of the glacial system based on seafloor morphology, sub bottom profiling, high resolution seismic imaging and marine sediment core evaluation and to elucidate the longer term role of the Totten Glacier as it responded to late Quaternary changes in climate and sea level. And to assess the Totten Glacier tongue and deep basins that surround it. Antarctic Data Repository for NBP14-02	Amy Leventer C-527-N	1/29/2014	HOB	3/16/2014	HOB
NBP14-03	Climate variability and predictability (CLIVAR) Antarctic Data Repository for NBP14-03	Jim Swift O-287-N	3/20/2014	HOB	5/5/2014	PPT
NBP14-04 Transit from PPT to Talcahuano, Chile NBP14-05 dry dock						
NBP14-06	To improve understanding of the dynamics over the corrugated flanks of slow-spreading mid-ocean ridges Antarctic Data Repository for NBP14-06	Andreas Thurnherr O-408-N	6/26/2014	PUQ	8/15/2014	PUQ
NBP14-07	Antarctic Marine Living Resources	George Watters B-006-N	8/19/2014	PUQ	9/18/2014	PUQ
NBP14-08	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	Ian Dalziel G-087-N	9/22/2014	PUQ	10/22/2014	PUQ
NBP14-09A NSF Site Visit						
NBP14-09	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	Kevin Arrigo B-244-N	10/26/2014	PUQ	11/26/2014	PUQ
NBP14-10	To investigate Euphausia superba in-situ feeding and swimming behavior Antarctic Data Repository for NBP14-10	Edward Durbin B-014	11/30/2014	PUQ	12/30/2014	PUQ
NBP15-01	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	James Girton O-398-N	1/5/2015	PUQ	1/20/2015	MCM
NBP15-02	To investigate the detailed history of the Central and Joides troughs, Western Ross Sea, in order to provide context to modern ice streams. To determine the timing and duration of the outer and middle shelf grounding events in Whales Deep Basin. Antarctic Data Repository for NBP15-02	John Anderson G-088 Philip Bart G-154	1/23/2015	MCM	3/16/2015	HOB HOB

Cruise #	CRUISES by NAME	PIs	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	HOB	4/30/2015	HOB
NBP15-04	Transit Antarctic Data Repository for NBP15-04		5/6/2015	HOB	5/29/2015	TAL
NBP15-05A	Drydock					
NBP15-05	Transit					
NBP15-06	Open Period					
NBP15-07	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 Period					
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. 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 NBP16-01	Christensen, John G-430	1/8/2016	PUQ	2/8/2016	PUQ
NBP16-02	To explore for, discover, and collect vertebrate fossils (primarily those of 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. 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	Lamanna, Matthew G-182 Kirschvink, Joseph G-291	2/15/2016	PUQ	3/20/2016	PUQ
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 Antarctic Data Repository for NBP16-03	Smith, Craig B-212	3/29/2016	PUQ	4/30/2016	PUQ
NBP16-04	Open Period		5/7/2016	PUQ	6/25/2016	PUQ
NBP16-05	Open Period		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. Antarctic Data Repository for NBP16-06	Watters, George B-006-N	8/4/2016	PUQ	8/31/2016	PUQ
NBP16-08	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	Uises, Greg O-410	10/20/2016	PUQ	11/15/2016	PUQ

Cruise #	CRUISES by NAME	PIs	Departure	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. Antarctic Data Repository for NBP16-10	Uises, Greg O-410	11/20/2016	PUQ	12/16/2016	PUQ
NBP17-01	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 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	Girton, James O-398 Rynearson, Tatiana B-469 Sarmiento, Jorge O-271	12/24/2016	PUQ	1/20/2017	MCM
NBP17-02	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	MCM	3/5/2017	LYT
NBP 17-03a	Transit		3/11/2017	LYT	3/13/2017	AUK
NBP 17-03b	DryDock		3/14/2017	AUK	3/31/2017	AUK
NBP 17-03c	Transit		4/1/2017	AUK	4/3/2017	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. Antarctic Data Repository for NBP17-04	Stephen Ackley C-531 Christopher Zappa O-403 Peter Sedwick O-316	4/10/2017	LYT	6/14/2017	LYT
NBP 17-05	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	Alison Macdonald 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	PUQ	12/9/2017	PUQ
NBP18-01	To determine whether iron and vitaminB-12 dynamics are primarily responsible for 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 improve 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 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

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
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	HOB	5/14/2018	PUQ
NBP18-03	NSF SHIP INSPECTION		5/16/2018	PUQ	5/18/2018	PUQ
NBP18-04	OPEN PERIOD		5/19/2018	PUQ	6/24/2018	PUQ
NBP18-05	OPEN PERIOD		6/25/2018	PUQ	7/25/2018	PUQ
NBP18-06	OPEN PERIOD		7/26/2018	PUQ	8/19/2018	PUQ
NBP18-07	OPEN PERIOD		8/20/2018	PUQ	10/9/2018	PUQ
NBP18-08	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 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	Antonius Koppers G-116	10/13/2018 10/20/2018 12/06/2018	PUQ MVD MVD	10/19/2018 12/05/2018 12/12/2018	MVD MVD PUQ
NBP19-01	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 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	Andrew Thompson O-124 Robert Dunbar O-131	12/21/2018	PUQ	1/23/2019	PUQ
NBP19-02	To show whether the Thwaites-Pine Island glacier system has been less 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. Measuring ocean circulation and thinning beneath the floating part of the 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 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. Antarctic Data Repository for NBP19-02	Brent Goehring C-443 Joanne Johnson C-443 Erin Pettit C-445 Karen Heywood C-445 Julia Wellner C-447 Robert Larter C-447	1/29/2019	PUQ	3/25/2019	PUQ
NBP19-03	OPEN PERIOD		3/26/2019	PUQ	4/29/2019	PUQ
NBP19-04	OPEN PERIOD		4/30/2019	PUQ	5/14/2019	PUQ
NBP19-04B	LOGISTICS RUN		5/15/2019	PUQ	5/23/2019	PUQ
NBP19-05A	Transit		7/6/2019	PUQ	7/13/2019	PUQ
NBP19-05B	Drydock		7/13/2019	PUQ	7/19/2019	PUQ
NBP19-05C	Transit		7/19/2019	PUQ	7/25/2019	PUQ
NBP19-06	OPEN PERIOD		7/26/2019	PUQ	8/5/2019	PUQ
NBP19-07	OPEN PERIOD		8/6/2019	PUQ	9/4/2019	PUQ
NBP19-08	OPEN PERIOD		9/5/2019	PUQ	9/30/2019	PUQ
NBP19-09	OPEN PERIOD		10/1/2019	PUQ	10/27/2019	PUQ
NBP19-10	This project will integrate a modeling and field program that will target the processes responsible for transporting and concentrating phytoplankton and krill biomass to known penguin foraging locations. This study will focus on the thermal sensitivity of enzymes and the cycling of compatible solutes and exopolymers used for halo- and cryo-protection, and how they influence primary production and the biogeochemical cycling of carbon and nitrogen. This project will advance understanding of mixotroph diversity and their ecological impact within the Southern Ocean microbial food web. Antarctic Data Repository for NBP19-10	Josh Kohut B-005 Jodi Young B-234 Robert Sanders B-303	11/2/2019	PUQ	12/15/2019	PUQ
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

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Antarctic Data Repository for NBP20-02</p>	<p>Andrew Thompson O-124</p> <p>Karen Heywood C-445</p> <p>Adrian Jenkins X-590</p> <p>Jorge Sarmiento O-271</p>				
NBP20-03	LOGISTICS RUN		4/10/2020	PUQ	5/4/2020	PTH
NBP20-04	TRANSIT		5/10/2020	PTH	5/14/2020	EUR
NBP20-05	OPEN PERIOD		5/15/2020	EUR	5/21/2020	EUR
NBP20-06	OPEN PERIOD		5/22/2020	EUR	9/16/2020	EUR
NBP20-07	TRANSIT		9/19/2020	EUR	9/20/2020	SFO
NBP20-08	TRANSIT		9/23/2020	SFO	9/25/2020	PTH
NBP20-09	TRANSIT		10/8/2020	PTH	11/2/2020	PUQ
NBP20-10	<p>This project will use molecular genomic tools to probe the DNA of Antarctic marine invertebrates and explore alternative hypotheses about factors that may have shaped current patterns of animal biodiversity in the Southern Ocean. Research will inform predictions about how species distributions may change as Antarctic ice sheets continue to deteriorate and provide critical information on how organisms adjust their ranges in response to environmental change.</p> <p>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.</p> <p>The goal of this project is to revolutionize the study of aplacophoran biodiversity and systematics using a combination of traditional and cutting-edge approaches while training the next generation of invertebrate systematists on diverse taxa and techniques.</p> <p>Antarctic Data Repository from NBP20-10</p>	<p>Kenneth Halanych B-305</p> <p>Jorge Sarmiento O-271</p> <p>Kevin Kocut B-237</p>	11/9/2020	PUQ	12/15/2020	PUQ
NBP21-01	<p>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.</p> <p>The objectives of this work are 1) to quantify and understand interactions between krill, krill predators (e.g., penguins and seals), and the Antarctic krill fishery; 2) to estimate krill flux through and standing biomass in areas where krill, predators, and the fishery overlap in space and time; and 3) to identify sustainable harvest strategies for the krill fishery.</p> <p>NOAA- AMLR Cape Shirreff Support To continue the 30-year-long LTER time series (1992-93 to 2019-20) at the time series station E near Palmer Station, acoustic surveys and coordinated research on seabirds and marine mammals in the extended Palmer Station region.</p> <p>Antarctic Data Repository for NBP21-01</p>	<p>Jorge Sarmiento O-271</p> <p>Lynne Talley O-271</p> <p>George Watters B-006</p> <p>Douglas Krause X-591</p> <p>Oscar Schofield C-019</p> <p>Carlos Moffat C-021</p>	12/20/2020	PUQ	1/8/2021	PUQ
NBP21-02	OPEN PERIOD		1/21/2021	PUQ	2/18/2021	PUQ
NBP21-03	OPEN PERIOD		2/19/2021	PUQ	3/18/2021	PUQ
NBP21-04	OPEN PERIOD		3/19/2021	PUQ	4/2/2021	PUQ
NBP21-05	OPEN PERIOD		4/3/2021	PUQ	4/27/2021	PUQ

Cruise #	CRUISES by NAME	Pis	Departure	PORT	Arrival	PORT
NBP21-06	OPEN PERIOD		4/28/2021	PUQ	5/24/2021	PUQ
NBP-21-07	OPEN PERIOD		5/25/2021	PUQ	6/25/2021	PUQ
NBP21-08	OPEN PERIOD		6/26/2021	PUQ	8/25/2021	PUQ
NBP21-09	OPEN PERIOD		8/26/2021	PUQ	9/18/2021	PUQ
NBP21-10	OPEN PERIOD		9/19/2021	PUQ	9/30/2021	PUQ
NBP21-11	OPEN PERIOD		10/1/2021	PUQ	10/3/2021	PUQ
NBP21-12	OPEN PERIOD		10/4/2021	PUQ	10/25/2021	PUQ
NBP21-13	<p>LTER-Long-Term Ecological Research</p> <p>To document/understand the phenology and variability in sea ice dynamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.</p> <p>To fulfill NOAA's mandate of providing scientific advice that supports United States interests related to resource management by the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR).</p> <p>The objectives of this work are 1) to quantify and understand interactions between krill, krill predators (e.g., penguins and seals), and the Antarctic krill fishery; 2) to estimate krill flux through and standing biomass in areas where krill, predators, and the fishery overlap in space and time; and 3) to identify sustainable harvest strategies for the krill fishery.</p> <p>Antarctic Data Repository for NBP21-13</p>	<p>Oscar Schofield C-019</p> <p>Deborah Steinberg C-020</p> <p>Carlos Moffat C-021</p> <p>Ari Friedlaender C-024</p> <p>Megan Cimino C-013</p> <p>Benjamin Van Mooy C-045</p> <p>Douglas Krause X-591</p> <p>George Watters B-006</p>	11/15/2021	PUQ	12/22/2021	PUQ
NBP22-01	OPEN PERIOD		12/23/2021	PUQ	1/1/2022	PUQ
NBP22-02	<p>This project will use an integrated suite of marine and sub-ice shelf research activities aimed at: <input type="checkbox"/>establishing boundary conditions seaward of the Thwaites Glacier grounding line <input type="checkbox"/>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.</p> <p>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.</p> <p>This project aims to characterize the glacial meltwater-driven iron, carbon, and microbial contributions that support primary productivity and atmospheric CO2 drawdown in the Amundsen Sea. To do this, they will: (1) complete shipboard Trace Metal Clean (TMC) CTD surveys along the north to south transit between the Antarctic Circumpolar Current and the ice shelf; (2) deploy an underway towfish for surface water sampling and deploy two Seagliders with the Heywood team to augment shipboard TMC surveys.</p> <p>Antarctic Data Repository for NBP22-02</p>	<p>Julia Wellner C-447</p> <p>Karen Heywood C-445</p> <p>Patricia Yager B-465</p>	1/6/2022	PUQ	3/8/2022	PUQ
NBP22-03a	Transit		3/14/2022	PUQ	3/21/2022	TAL
NBP22-03b	Drydock		3/21/2022	TAL	4/25/2022	TAL
NBP22-03c	Transit		4/25/2022	TAL	5/1/2022	PUQ
NBP22-04	OPEN PERIOD		5/1/2022	PUQ	5/15/2022	PUQ
NBP22-05	<p>This project will deploy to the Western Antarctic Peninsula (WAP) area to sample multiple stations, including one in the Gerlache Strait on the way to Palmer Station, one in the Palmer Deep, and several to the south, as far as Marguerite Bay. The team will conduct experiments to examine bacterial grazing, bacterial production, primary production and microbial diversity (prokaryotic and eukaryotic). The team will collect water samples from the surface and the deep chlorophyll maximum early in the morning every two to three days.</p> <p>This project will deploy to outfit multiple crabeater seals with satellite tags in the pack ice. Individual seals will be sampled at each of two areas – one in the northern Bransfield Strait area and one in the southern area west of Alexander Island. The team will use a combination of Unoccupied Aerial System surveys and satellite imagery to census the population of seals across a latitudinal gradient along the western Antarctic Peninsula</p> <p>This project will deploy to conduct krill growth and respiration experiments. Krill were collected using net sampling in the northern and southern areas of the Western Antarctic Peninsula (WAP). Additional samples were collected for metabolic analyses.</p>	<p>Robert Sanders B-303</p> <p>Luis Huckstadt B-038-N</p> <p>Kimberly Bernard B-459-N</p>	5/20/2022	PUQ	6/26/2022	PUQ

Cruise #	CRUISES by NAME	PIs	Departure	PORT	Arrival	PORT
	Antarctic Data Repository for NBP22-05					
NBP22-06	OPEN PERIOD		6/30/2022	PUQ	7/25/2022	PUQ
NBP22-07	OPEN PERIOD		7/26/2022	PUQ	8/25/2022	PUQ
NBP22-08	OPEN PERIOD		8/26/2022	PUQ	9/30/2022	PUQ
NBP22-09	OPEN PERIOD		10/1/2022	PUQ	10/31/2022	PUQ
NBP22-10	OPEN PERIOD		11/1/2022	PUQ	11/1/2022	PUQ
NBP22-11	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. NBP22-11 did not support LTER this past year, O-271 Sarmiento was the only PI on this transit from PA to CHC.	Jorge Sarmiento O-271 Oscar Schofield C-019	11/8/2022 11/17/2022	PUQ PAL	11/14/2022 12/9/2022	PAL LYT
NBP23-01	This research investigates the how, why, and when the Ross Ice Shelf (RIS) unpinned from Ross Bank to assess ice sheet and ice shelf behavior during a recent unpinning event. The Ross Bank study will provide some of the needed ground truth proof for any physical or numerical model prediction of cause and effect relationships associated with ice-shelf unpinning Protected species observers to monitor seismic surveys for Bart and Coffin. Antarctic Data Repository from NBP23-01	Philip Bart G-431 Laura Bluth T-988	12/26/2022	LYT	1/15/2023	MCM
NBP23-02	This research investigates the how, why, and when the Ross Ice Shelf (RIS) unpinned from Ross Bank to assess ice sheet and ice shelf behavior during a recent unpinning event. The Ross Bank study will provide some of the needed ground truth proof for any physical or numerical model prediction of cause and effect relationships associated with ice-shelf unpinning. This project will address fundamental information gaps about the foraging ecology and habitat use of Emperor penguins during critical periods of their life history using a combination of technological and analytical tools. To better understand food web dynamics and structure of a Southern Ocean trophic hotspot, and to resolve a penguin population growth paradox, where expansion of colonies coincides with chicks fledging underweight. This study will improve the understanding of top-down and bottom-up processes in the Ross Sea Polynya marginal ice zone, providing important information for management of the Ross Sea Region Marine Protected Area. Antarctic Data Repository from NBP23-02	Philip Bart G-431 Birgitte McDonald B-245 David Ainley B-031	1/18/2023	MCM	2/28/2023	LYT
NBP23-03	Understand environmental factors that have shaped patterns of present-day diversity in Antarctic benthic marine invertebrates. This research will assess whether the presence of transantarctic waterways helps explain observed similarities between the Ross and Weddell Seas benthic marine invertebrate fauna. This project will resurrect aplousobranch biodiversity and systematics research in the United States through training of a new generation of scientists and answer fundamental questions about the biodiversity and evolution of these understudied animals. This study uses modern -omics approaches to evaluate the biodiversity, evolution, and ecology of Antarctic marine nematodes and their host-associated microbiomes from a variety of habitats collected at different depths. The results are producing an important baseline dataset of Antarctic meiofaunal diversity. Cumaceans will be used as a model system to explore their biology and to evaluate invertebrate animal adaptations to the changing Antarctic. Several methods will be used to evaluate diversity in different regions of the Antarctic. This program is designed to understand the intricate relationship between microbial communities and organic matter delivered to ocean floor ecosystem of Eastern Antarctica. Results will provide a detailed understanding of how sediment organic matter is degraded.	Kenneth Halanych B-305 Kevin Kocot B-237 Holly Bik B-252 Sarah Gerken B-010 Deric Learman B-014	3/26/2023	LYT	5/5/2023	ALB
NBP23-04	Transit		5/23/2023 6/23/2023	ALB PAL	6/22/2023 6/27/2023	PAL PUQ
NBP23-05/06	OPEN PERIOD		6/28/2023	PUQ	6/29/2023	PUQ
NBP23-07	OPEN PERIOD		6/30/2023	PUQ	7/30/2023	PUQ
NBP23-08	OPEN PERIOD		7/31/2023	PUQ	8/30/2023	PUQ
NBP23-09	OPEN PERIOD		8/31/2023	PUQ	9/30/2023	PUQ
NBP23-10	OPEN PERIOD		10/1/2023	PUQ	10/30/2023	PUQ
NBP23-11	OPEN PERIOD		10/31/2023	PUQ	11/17/2023	PUQ