	RV LAURE	NCE M. GOULI	D Cruise H	listory		
Port Key:	COPA=Copacabana Field Camp, Antarctica; CS=Cape Sherriff, Antau FCH=Fourchon, LA; KGI=King George Island, Antarctica; LIV=Livin Antarctica; PAN=Panama; PMN=Peterman Island, Antarctica; PNT= ROT=Rothera Base, Antarctica; SEY=Seymour Island, Antarctica; TA Antarctica	ngston Island, Antarctica; Puerto Natales, Chile; PU	OHG=O'Higgins Q=Punta Arenas,	Base, Antarc Chile; SNO=	tica; PAL=Palı Snow Island, A	ner Station, ntarctica;
Contacting	Principal Investigators:					
	ncipal investigator and/or chief scientist is listed below. For e-mail addresse			ry, please refe	r to the HTML	version of the
-	for more in-depth contact information, mailing address, phone numbers, etc,	please refer to the online v	ersion of the			
	ng Summaries	her all also a de a ll als in de a	Contine Manual Calif	U., DOOKM	ADVC to set to	
by name/date.	archived information is available, the researcher's website may be accessed	by clicking the link in the	cruise Name field.	Use BOOKM	ARKS to get to	specific cruise
CRUISE #	CRUISE by NAME	Pls	Doparturo	PORT	Arrival	PORT
LMG 98-1t	Transit to Punta Arenas	N/A	Departure 12/25/1997	FCH	1/16/1998	PUR
LING 30-11	Antarctic Data Repository for LMG9801T		1212011331	1.011	1,10,1990	100
LMG 98-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem	Maria Vernet	1/22/1998	PUQ	2/20/1998	PUQ
2	An Ice-Dominated Environment. (LTER)	S-016	.,,		2/20/1000	
	http://www.icess.ucsb.edu	Langdon Quetin &				
		Robin Ross				
		S-028				
		Ray Smith				
		S-032				
	Antarctic Data Repository for LMG98-01	Dave Karl S-046				
LMG 98-2	Holocene Paleoenvironmental Change Along the Antarctic	Eugene Domack	2/25/1998	PUQ	3/21/1998	PUQ
LIVIG 90-2	Peninsula: a Test of the Polar/Bi-Polar Signal	Eugene Domack	2/25/1996	FUQ	5/21/1996	FUQ
	Antarctic Data Repository for LMG98-02	GO-072-O				
LMG 98-3	PAX Transfer to Palmer Station	N/A	3/26/1998	PUQ	4/9/1998	PUQ
	Antarctic Data Repository for LMG98-03					
LMG 98-3A	PAX Transfer to Palmer Station	N/A	4/14/1998	PUQ	5/5/1998	PUQ
	Antarctic Data Repository for LMG98-03A					
LMG 98-4	In Punta Arenas	N/A	N/A	N/A	N/A	N/A
LMG 98-5	In Punta Arenas	N/A	Jul-98	PUQ	N/A	N/A
LMG 98-6	Mtce. Dry Dock Period	N/A	7/28/1998	PUQ	8/2/1998	TAL
LMG 98-7 LMG 98-8	Transit to PUQ Palmer Station Support/turnover	N/A N/A	8/29/1998 9/10/1998	TAL PUQ	9/4/1998 9/14/1998	PUQ PAL
LIVIG 90-0		N/A	9/16/1998	PAL	9/20/1998	PUQ
LMG 98-8A	Palmer Station Turnover and open Copacabana Field Camp on King	N/A	9/27/1998	PUQ	10/1/1998	COPA
	George Island	, 	10/1/1998	COPA	10/3/1998	PAL
			10/3/1998	PAL	10/8/1998	PUQ
LMG 98-9	Photochemical and Optical Properties of Antarctic Waters in	Kenneth Mopper	10/12/1998	PUQ	10/15/1998	Weddell Sea
	response to changing UV-B fluxes.	BO-002-O	11/16/1998	PAL	11/20/1998	PUQ
	New approaches to measuring and understanding the effects of Ultraviolet Radiation on Phyotosynthesis by Antarctic Phytoplankton.	Patrick Neale				
		BO-010-0				
	Antarctic Data Repository for LMG98-09					
LMG 98-10	Collaborative Research: Scotia Arc GPS Project (SCARP)	lan Dalziel	11/24/1998	PUQ	12/27/1998	PUQ
		GO-087-O		100	,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100
	Antarctic Data Repository for LMG98-10					
LMG 99-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	William Fraser	1/2/1999	PUQ	1/6/1999	PAL
	An Ice-Dominated Environment. (LTER)	BP-013-N	1/6/1999	PAL	2/12/1999	PAL
	http://www.icess.ucsb.edu	Maria Vernet				
		BP-016-N				
		Doug Martinson				
		BP-021 Langdon Quetin &				
		Robin Ross				
		BP-028-N				
		Ray Smith			1	
		BP-032-N			1	
		Dave Karl				
	Antarctic Data Repository for LMG99-01	BP-046-O	2/14/1999	PAL	2/18/1999	PUQ
LMG 99-2	Influence of Seasonal Ice Cover on Pelagic and Benthic	Ken Smith	2/22/1999	PUQ	2/26/1999	PAL
	Communities: Long Time-Series Studies	BO-050-O	2/26/1999	PAL	2/27/1999	DEC
	Adaptations of Organisms at the Sulfide- and Methane-Containing	Horst Felbeck	3/12/1999	DEC	3/17/1999	PUQ
	Hydrothermal Areas of Deception Island	BO-085-O	0/12/1000	DLO	0/11/1000	100

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG 99-3	Evolution of an Oxygen-binding Hemoprotein in a Unique Environment: Myoglobin in the Hemoglobinless Antarctic Icefishes	Bill Detrich BO-037-O	3/21/1999 4/16/1999	PUQ PAL	3/24/1999 4/20/1999	PAL PUQ
	Structure, Function, and Expression of Cold-Adapted Tubulins and Microtubule-Dependent Motors from Antarctic Fishes	Bruce Sidell BO-036-O				
	Characterization of Indigenous and Introduced Toxic Phytoplankton in Antarctica NOAA Grant	Donald Anderson BO-300-O Martin Visbeck				
	Palmer Station support operations were performed as well and included a technical site visit by Biospherical Instruments.	NOAA Science Grant				
	Antarctic Data Repository for LMG99-03					
LMG 99-4	Continuation of LMG99-3	Bruce Sidell BO-036-O	4/27/1999 5/30/1999	PUQ PAL	4/30/1999 5/31/1999	PAL COPA
	Antarctic Data Repository for LMG99-04	Bill Detrich BO-037-O	5/31/1999	COPA	6/3/1999	PUQ
LMG 99-5	Continuation of LMG99-4	Bruce Sidell BO-036-O Bill Detrich	6/6/1999 6/29/1999	PUQ PAL	06/09.99 7/2/1999	PAL PUQ
	Antarctic Data Repository for LMG99-05	BO-037-O				
LMG 99-6	Palmer Station Support	N/A	7/9/1999 7/26/1999	PUQ PAL	7/13/1999 7/30/1999	PAL PUQ
LMG 99-7	Transit to Talcahuano, Chile for Maintenance Period	N/A	8/1/1999 9/4/1999	PUQ TAL	8/7/1999 9/10/1999	TAL PUQ
LMG 99-8	Shipboard Acoustic Doppler Current Profiling on R/V NATHANIEL B. PALMER and LAURENCE M. GOULD	Teri Chereskin OO-315-O	9/14/1999	PUQ	9/20/1999	PAL
	PAL Station Support/Turnover & ADCP Shakedown Cruise Antarctic Data Repository for LMG99-08	00-315-0	9/23/1999	PAL	9/28/1999	PUQ
LMG 99-8A	Open PeriodVessel Science Inspection	N/A	9/28/1999 10/9/1999	PUQ PUQ	N/A	N/A
LMG 99-8B	Palmer Station Turnover and Copacabana Field Camp Opening	N/A	10/9/1999 10/14/1999 10/17/1999	PUQ COPA PAL	10/13/1999 10/15/1999 10/21/1999	COPA PAL PUQ
LMG 99-9	Influence of Seasonal Ice Cover on Pelagic and Benthic Communities: Long Time Series Study Antarctic Data Repository for LMG99-09	Ken Smith BO-050-O	10/25/1999 10/29/1999	PUQ PAL	10/29/1999 11/15/1999	PAL PUQ
LMG 99-10	Impact and Fate of Bloom Material on the Sea Floor	Dave DeMaster	11/20/1999	PUQ	12/6/1999	PAL
		BO-303-O Craig Smith BO-303-O	12/8/1999	PAL	12/12/1999	PUQ
	Mooring Recovery (Karl) Antarctic Data Repository for LMG99-10	Dave Karl BP-046-O				
LMG 00-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem	Bill Fraser	12/17/1999	PUQ	12/21/1999	CS
	An Ice-Dominated Environment. (LTER) http://www.icess.ucsb.edu	BP-013-O Maria Vernet	12/21/1999 12/22/1999	CS PAL	12/22/1999 1/26/2000	PAL PAL
	http://www.icess.ucsb.edu	BP-016-O	1/28/2000	PAL	2/1/2000	PUQ
	Call at Cape Shirreff Field Camp	Doug Martinson BP-021-O				
		Langdon Quetin				
		Robin Ross BP-028-O				
		Ray Smith BP-032-O				
		Dave Karl				
LMG 00-2	Antarctic Data Repository for LMG00-01 Influence of Seasonal Ice Cover on Pelagic and Benthic	BP-046-O Ken Smith	2/5/2000	PUQ	2/9/2000	COPA
	Communities: Long Time Series Study.	BO-050-O	2/10/2000	COPA	2/11/2000	PAL
	Planktonic Invertebrate Larvae and Biogeography of the Antarctic	Rudolf Scheltema BO-281-O	2/12/2000 2/22/2000	PAL DEC	2/13/2000 2/23/2000	DEC PAL
	Shipboard Acoustic Doppler Current Profiling on R/V NATHANIEL	Teri Chereskin	212212000	DLU	2,20,2000	
	B. PALMER and LAURENCE M. GOULD Also delivered construction materials to Copa Field Camp	00-315-0				
	Antarctic Data Repository for LMG00-02		0/0/0000	DUC	0/0/0000	
LMG 00-3	Impact and Fate of Bloom Material on the Sea Floor	Dave DeMaster BO-303-O	3/2/2000 3/7/2000	PUQ PAL	3/6/2000 3/19/2000	PAL PAL
	Mooring Recovery (Karl)	Dave Karl	3/20/2000	PAL	3/24/2000	PUQ
LMG 00-3A	Antarctic Data Repository for LMG00-03 Acquisition and Operation of Broadband Seismograph Equipment at	BP-046-O Doug Wiens	3/28/2000	PUQ	4/2/2000	PAL
	Chilean Bases in the Antarctic Peninsula Region (Weins). NOAA-CORC Southern Ocean Modern Observations (Visbeck)	GO-097-O Martin Visbeck	4/3/2000	POQ PAL	4/21/2000	PUQ
	<b>S</b> ( )		4/3/2000	PAL	4/21/2000	

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG 00-4	Dunbar Mooring Retrieval Palmer Station Logistics	Rob Dunbar	4/25/2000	PUQ	4/29/2000	PAL
	Antarctic Data Repository for LMG00-04	GO-072-O	5/8/2000	PAL	5/12/2000	PUQ
LMG 00-5	Influence of Seasonal Ice Cover on Pelagic and Benthic	Ken Smith	5/16/2000	PUQ	5/21/2000	PAL
	Communities: Long Time-Series Studies	BO-050-O	5/22/2000	PAL	5/23/2000	DEC
	Planktonic Inverterbrate Larvae and Biogeography of the Antarctic	Rudolf Scheltema	6/8/2000	DEC	6/9/2000	PAL
		GO-281-O	6/10/2000	PAL	6/15/2000	PUQ
	Shipboard Acoustic Doppler Current Profiling on R/V NATHANIEL	Teri Chereskin				
	B. PALMER AND LAURENCE M. GOULD	00-315-0				
	The Influence of Hydrothermal Discharge on Coastal Ocean	Anne Sturz				
	Dissolved Iron Concentrations at Deception Island	00-319-0				
	Antarctic Data Repository for LMG00-05					
LMG 00-6A	Palmer Station Logistics Support	N/A	6/19/2000	PUQ	6/23/2000	PAL
	Antarctic Data Repository for LMG00-06A		6/26/2000	PAL	6/30/2000	PUQ
LMG 00-6B	Palmer Station Support & Haz Waste Pickup	N/A	7/3/2000	PUQ	7/7/2000	PAL
	Antarctic Data Repository for LMG00-06B		7/11/2000	PAL	7/15/2000	PUQ
LMG 00-6C	Palmer Station Support	N/A	7/18/2000	PUQ	7/22/2000	PAL
	Antarctic Data Repository for LMG00-06C		7/25/2000	PAL	7/29/2000	DEC
LMG 00-6D	Palmer Station Support	N/A	8/1/2000	PUQ	8/5/2000	PAL
	Antarctic Data Repository for LMG00-06C		8/8/2000	PAL	8/12/2000	PUQ
LMG 00-7	Talcahuano Dry Dock	N/A	8/15/2000	PUQ	8/21/2000	TAL
2			9/4/2000	TAL	9/10/2000	PUQ
LMG 00-8	Shuttle #1 -Palmer Station Turnover	N/A	9/15/2000	PUQ	9/21/2000	PAL
	Antarctic Data Repository for LMG00-08		9/24/2000	PAL	9/29/2000	PUQ
LMG 00-8a	Shuttle #2-Palmer Turnover	Gregg Dietzman	10/1/2000	PUQ	10/7/2000	PAL
Line oo ou	Natural Product Drugs from Cold-Water Marine Organisms	BO-282-O	10/9/2000	PAL	10/13/2000	PUQ
	Antarctic Data Repository for LMG00-08A	50-202-0	10/0/2000		10, 10, 2000	100
LMG 00-9	Bentho-Pelagic Coupling on the West Antarctic Peninsula Shelf:	C. Smith	10/17/2000	PUQ	10/21/2000	COPA
LING 00-9	The Impact and Fate of Bloom Material on the Shelf Floor	BO-303-O	10/17/2000	COPA	10/21/2000	PAL
			10/23/2000	PAL	11/4/2000	PAL
		Dave DeMaster BO-313-O				
			11/4/2000	PAL	11/8/2000	PUQ
	Penguin-Krill-Ice Interactions: The Impact of Environmental	Wayne Trivelpiece				
	Variability on Penguin Demography (COPA Field Camp)	BO-040-O				
	Antarctic Data Repository for LMG00-09					
LMG00-10	Influence of Seasonal Ice Cover on Pelagic and Benthic	Ken Smith	11/12/2000	PUQ	11/16/2000	CS
	Communities: Long Time Series Study. Construction materials	BO-050-O	11/17/2000	CS	11/18/2000	PAL
	delivered to Copacabana Field Camp		11/19/2000	PAL	12/04/00	PUQ
	Antarctic Data Repository for LMG00-10					
LMG00-11	Global Climate Change and the Evolutionary Ecology of Antarctic	Richard Aronson	12/8/2000	PUQ	12/12/2000	SEY
	Mollusks in the Late Holocene	GO-065-O	12/17/2000	SEY	12/19/2000	PAL
	Antarctic Data Repository for LMG00-11		12/20/2000	PAL	12/24/2000	PUQ
LMG 01-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Bill Fraser	1/4/2001	PUQ	1/8/2001	PAL
	An Ice-Dominated Environment. (LTER)	BP-013-O	1/9/2001	PAL	1/24/2001	PAL
	http://www.icess.ucsb.edu	Maria Vernet	1/25/2001	PAL	1/31/2001	PUQ
		BP-016-O				
		Doug Martinson				
		BP-021-O				
		Langdon Quetin				
		Robin Ross				
		BP-028-O				
		Ray Smith				
		BP-032-O				
	Antonitis Data Damasitar (fre 114004.04	Dave Karl				
	Antarctic Data Repository for LMG01-01	BP-046-O	0/0/00001	BUIC	0/7/0001	541
LMG 01-1A	State Dept./EPA Antarctic Treaty Inspection of non-U.S. stations	N/A	2/2/2001	PUQ	2/7/2001	PAL
	Antarctic Data Repository for LMG01-01A		2/8/2001	PAL	2/16/2001	PUQ
LMG 01-2	Bentho-Pelagic Coupling on the West Antarctic Peninsula Shelf:	Craig Smith	2/20/2001	PUQ	2/24/2001	PAL
	The Impact and Fate of Bloom Material on the Shelf Floor	BO-303-O	2/25/2001	PAL	3/9/2001	PAL
		Dave DeMaster	3/10/2001	PAL	3/14/2001	PUQ
	Antarctic Data Repository for LMG01-02	BO-303-O				
LMG 01-3	Southern Ocean Global Ocean Ecosystems Dynamics (SO	Robert Beardsley	3/18/2001	PUQ	3/22/2001	KGI
	GLOBEC): Circulation and Water Property Evolution	OG-231-0	3/23/2001	KGI	3/24/2001	PAL
	SO GLOBEC: Mesoscale Circulation, Tides, and Mixing	Laurence Padman	3/25/2001	PAL	4/8/2001	PAL
		OG-238-O	4/9/2001	PAL	4/13/2001	PUQ
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	John Hildebrand				
	West Antarctic Project Area	BG-239-O				
	http://www.ccpo.odu.edu/Research/globec_menu.html	20-200-0				
	AMS Radiocarbon Chronolgy of Glacier Fluctuations in the South	Bronda Holl				
		Brenda Hall				
	Shetland Islands During the Last Glacial/Interglacial Hemicycle:	IO-196-L				
	Implications for the Role of Antarctica in Global Climate Change					
	(Hall Field Camp Put-in on Liv. Island) Antarctic Data Repository for LMG01-03					

ODUIOE #				DODE		DODE
CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG 01-4	SO GLOBEC: Seabird Ecology Using Observations and Diet	Bill Fraser	4/20/2001	PUQ	4/25/2001	KGI
	Samples	BG-234-O	4/25/2001	KGI	4/26/2001	LIV
	SO GLOBEC: Krill Distribution, Physiology, and Predations;	Kendra Daly	4/26/2001	LIV	4/27/2001	PAL
	Copepod Prey Abundance	BG-236-O	4/28/2001	PAL	5/31/2001	PAL
	SO GLOBEC: Krill Age and Dietary History	Rodger Harvey	5/31/2001	PAL	6/1/2001	LIV
	SO GLOBEC: Krill Physiology and Eich Ecology	BG-237-O	6/1/2001	LIV	6/5/2001	PUQ
	SO GLOBEC: Krill Physiology and Fish Ecology	Jose Torres BG-245-O				
	SO GLOBEC: Water-Column Phytoplankton Primary Productivity	Maria Vernet BG-246-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 Livingston Island Field Camp Pickup of Brenda Hall	Brenda Hall				
	Antarctic Data Repository for LMG01-04	IO-196-L				
LMG 01-5	Proteins of Oxygen-Binding & Energy Metabolism in Muscles of	Bruce Sidell	6/11/2001	PUQ	6/16/2001	PAL
	Antarctic Fishes: Evolutionary Adjustments to Life at Cold Temperatures	BG-036-O	6/18/2001 7/11/2001	PAL	6/21/2001 7/15/2001	PAL
1	Structure, Function, and Expression of Tubulins, Globins, and	Bill Detrich	1,11/2001		1110/2001	100
		BG-037-O				
LMG 01-6	SO GLOBEC: Foraging Ecology of Crabeater Seals	Dan Costa	7/21/2001	PUQ	7/25/2001	PAL
2.0001-0	CONTRACTOR CONTRACTOR CONTRACTOR	BG-232-O	7/26/2001	PAL	8/26/2001	PAL
	SO GLOBEC: Seabird Ecology Using Observations and Diet	Bill Fraser	8/27/2001	PAL	8/31/2001	PUQ
	Samples	BG-234-0	0/21/2001		0,01,2001	
	SO GLOBEC: Winter Distribution and Activities of Sea-ice Microbial					
	Communities in the Western Antarctic Peninsula	BG-235-0				
	SO GLOBEC: Krill Age and Dietary History	Rodger Harvey				
		BG-237-0				
	SO GLOBEC: Optical Environment of the Western Antarctic	Doug Martinson				
	Peninsula	OG-241-0				
	SO GLOBEC: Winter Ecology of Larval Krill: Quantifying Their	Robin Ross				
	Interaction with the Pack Ice Habitat	BG-244-0				
	http://www.ccpo.odu.edu/Research/globec_menu.html					
LMG 01-7	Antarctic Data Repository for LMG01-06 Maintenance Period and ADCP Sea Trials	N/A	0/1/2004	At PUQ	9/14/2001	At PUQ
			9/1/2001			
LMG 01-8	Palmer Station Support	N/A	9/20/2001	PUQ	9/25/2001	PAL
LMG01-08A	Antarctic Data Repository for LMG01-08 Penguin-Krill-Ice Interactions: The Impact of Environmental		10/7/2004	PAL	10/11/2004	PUQ
	Variability on Penguin Demography (COPA)	Wayne Trivelpiece BO-040-O	10/7/2001 10/11/2001	PUQ COPA	10/11/2001 10/13/2001	COPA PAL
	vanability of the organit bettiography (OOFA)	00-040-0		UUFA		
			10/16/2001	PΔI		
1			10/16/2001 10/16/2001	PAL Racer Rock	10/16/2001	Racer Rock
	Antarctic Data Repository for LMG01-08A		10/16/2001	Racer Rock	10/16/2001 10/17/2001	Racer Rock COPA
LMG01-08B	Antarctic Data Repository for LMG01-08A Palmer Station Support #2	N/A			10/16/2001	Racer Rock
LMG01-08B	Antarctic Data Repository for LMG01-08A Palmer Station Support #2 Antarctic Data Repository for LMG01-08B	N/A	10/16/2001 10/17/2001	Racer Rock COPA	10/16/2001 10/17/2001 10/21/2001	Racer Rock COPA PUQ
LMG01-08B Maintenance	Palmer Station Support #2	N/A N/A	10/16/2001 10/17/2001 10/27/2001	Racer Rock COPA PUQ	10/16/2001 10/17/2001 10/21/2001 11/5/2001	Racer Rock COPA PUQ PAL
	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u>		10/16/2001 10/17/2001 10/27/2001 11/8/2001	Racer Rock COPA PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001	Racer Rock COPA PUQ PAL PUQ
Maintenance	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile	N/A	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001	Racer Rock COPA PUQ PAL At PUQ	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001	Racer Rock COPA PUQ PAL PUQ
Maintenance	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography	N/A Richard Veit	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001	Racer Rock COPA PUQ PAL At PUQ PUQ	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001	Racer Rock COPA PUQ PAL PUQ At PUQ
Maintenance	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos	N/A Richard Veit BO-023-O	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001	Racer Rock COPA PUQ PAL At PUQ PUQ	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001	Racer Rock COPA PUQ PAL PUQ At PUQ
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u>	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001 12/28/2001	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ
Maintenance	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem:	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 1/2/2002	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001 12/28/2001 1/6/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 1/2/2002 1/7/2002	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem:	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 1/2/2002	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001 12/28/2001 1/6/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9	Palmer Station Support #2 <u>Antarctic Data Repository for LMG01-08B</u> Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos <u>Antarctic Data Repository for LMG01-09</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER) <u>http://www.icess.ucsb.edu</u>	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9 LMG02-1	Palmer Station Support #2 Antarctic Data Repository for LMG01-08B Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos Antarctic Data Repository for LMG01-09 Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER) http://www.icess.ucsb.edu Antarctic Data Repository for LMG02-01	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl BP-046-O	10/16/2001 10/17/2001 11/8/2001 11/8/2001 12/2/2001 12/2/2001 12/23/2001 1/2/2002 1/7/2002 1/28/2002	Racer Rock COPA PUQ PAL At PUQ PAL PAL PAL PAL PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002 2/1/2002	Racer Rock COPA PUQ AL PUQ At PUQ PUQ PUQ PAL PAL PUQ
Maintenance LMG01-9 LMG02-1	Palmer Station Support #2 Antarctic Data Repository for LMG01-08B Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos Antarctic Data Repository for LMG01-09 Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER) http://www.icess.ucsb.edu Antarctic Data Repository for LMG02-01 Southern Ocean Global Ocean Ecosystems Dynamics (SO	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl BP-046-O Bob Beardsley	10/16/2001 10/17/2001 10/27/2001 11/8/2001 11/13/2001 12/2/2001 12/23/2001 12/23/2001	Racer Rock COPA PUQ PAL At PUQ PUQ PAL PUQ PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 11/12/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002	Racer Rock COPA PUQ PAL PUQ At PUQ PUQ PUQ PAL PAL
Maintenance LMG01-9 LMG02-1 LMG02-1A GLOBEC	Palmer Station Support #2         Antarctic Data Repository for LMG01-08B         Maintenance Period in Punta Arenas, Chile         Dynamics of Predator-Prey Behavior in the Antarctic Ocean         Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos         Antarctic Data Repository for LMG01-09         Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)         http://www.icess.ucsb.edu         Antarctic Data Repository for LMG02-01         Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC) : Circulation and Water Property Evolution	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl BP-046-O Bob Beardsley OG-231-O	10/16/2001 10/17/2001 11/8/2001 11/8/2001 12/2/2001 12/2/2001 12/23/2001 1/2/2002 1/7/2002 1/28/2002	Racer Rock COPA PUQ PAL At PUQ PAL PAL PAL PAL PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002 2/1/2002	Racer Rock COPA PUQ AL PUQ At PUQ PUQ PUQ PAL PAL PUQ
Maintenance LMG01-9 LMG02-1 LMG02-1A GLOBEC Mooring	Palmer Station Support #2         Antarctic Data Repository for LMG01-08B         Maintenance Period in Punta Arenas, Chile         Dynamics of Predator-Prey Behavior in the Antarctic Ocean         Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos         Antarctic Data Repository for LMG01-09         Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)         http://www.icess.ucsb.edu         Antarctic Data Repository for LMG02-01         Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC) : Circulation and Water Property Evolution         SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl BP-046-O Bob Beardsley OG-231-O John Hildebrand	10/16/2001 10/17/2001 11/8/2001 11/8/2001 12/2/2001 12/2/2001 12/23/2001 1/2/2002 1/7/2002 1/28/2002	Racer Rock COPA PUQ PAL At PUQ PAL PAL PAL PAL PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002 2/1/2002	Racer Rock COPA PUQ AL PUQ At PUQ PUQ PUQ PAL PAL PUQ
Maintenance LMG01-9 LMG02-1 LMG02-1A GLOBEC Mooring Recovery &	Palmer Station Support #2 Antarctic Data Repository for LMG01-08B Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos Antarctic Data Repository for LMG01-09 Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER) http://www.icess.ucsb.edu Antarctic Data Repository for LMG02-01 Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC) : Circulation and Water Property Evolution SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl BP-046-O Bob Beardsley OG-231-O	10/16/2001 10/17/2001 11/8/2001 11/8/2001 12/2/2001 12/2/2001 12/23/2001 1/2/2002 1/7/2002 1/28/2002	Racer Rock COPA PUQ PAL At PUQ PAL PAL PAL PAL PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002 2/1/2002	Racer Rock COPA PUQ AL PUQ At PUQ PUQ PUQ PAL PAL PUQ
Maintenance LMG01-9 LMG02-1 LMG02-1A GLOBEC Mooring Recovery &	Palmer Station Support #2         Antarctic Data Repository for LMG01-08B         Maintenance Period in Punta Arenas, Chile         Dynamics of Predator-Prey Behavior in the Antarctic Ocean         Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos         Antarctic Data Repository for LMG01-09         Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)         http://www.icess.ucsb.edu         Antarctic Data Repository for LMG02-01         Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC) : Circulation and Water Property Evolution SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area         http://www.ccpo.odu.edu/Research/globec_menu.html	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl BP-046-O Bob Beardsley OG-231-O John Hildebrand BG-239-O	10/16/2001 10/17/2001 11/8/2001 11/8/2001 12/2/2001 12/2/2001 12/23/2001 1/2/2002 1/7/2002 1/28/2002	Racer Rock COPA PUQ PAL At PUQ PAL PAL PAL PAL PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002 2/1/2002	Racer Rock COPA PUQ AL PUQ At PUQ PUQ PUQ PAL PAL PUQ
Maintenance LMG01-9 LMG02-1 LMG02-1A GLOBEC Mooring Recovery &	Palmer Station Support #2 Antarctic Data Repository for LMG01-08B Maintenance Period in Punta Arenas, Chile Dynamics of Predator-Prey Behavior in the Antarctic Ocean Dispersal of Planktonic Invertebrate Larvae and the Biogeography of the Antarctic Benthos Antarctic Data Repository for LMG01-09 Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER) http://www.icess.ucsb.edu Antarctic Data Repository for LMG02-01 Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC) : Circulation and Water Property Evolution SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area	N/A Richard Veit BO-023-O Rudy Scheltema BO-281-O Bill Fraser BP-013-O Maria Vernet BP-016-O Doug Martinson BP-021-O Langdon Quetin Robin Ross BP-028-O Ray Smith BP-032-O Dave Karl BP-046-O Bob Beardsley OG-231-O John Hildebrand	10/16/2001 10/17/2001 11/8/2001 11/8/2001 12/2/2001 12/2/2001 12/23/2001 1/2/2002 1/7/2002 1/28/2002	Racer Rock COPA PUQ PAL At PUQ PAL PAL PAL PAL PAL	10/16/2001 10/17/2001 10/21/2001 11/5/2001 12/1/2001 12/1/2001 12/28/2001 1/6/2002 1/27/2002 2/1/2002	Racer Rock COPA PUQ AL PUQ At PUQ PUQ PUQ PAL PAL PUQ

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG02-1B	Mooring recovery	Rob Dunbar	3/7/2002	PUQ	3/18/2002	PUQ
	Palmer Shuttle	Gene Domack				
	Antarctic Data Repository for LMG02-01B	GO-072-O				
LMG02-2	Palmer Station Shuttle	NA	3/22/2002	PUQ	3/26/2002	PAL
	Antarctic Data Repository for LMG02-02		3/29/2002	PAL	4/2/2002	PUQ
LMG02-3	SO GLOBEC: Foraging Ecology of Crabeater Seals	Dan Costa	4/7/2002	PUQ	4/12/2002	PAL
		BG-232-0	4/13/2002	PAL	5/14/2002	PAL
	SO GLOBEC: Seabird Ecology Using Observations and Diet	Bill Fraser	5/16/2002	PAL	5/20/2002	PUQ
	Samples	BG-234-0				
	SO GLOBEC: Krill Distribution, Physiology, and Predations;	Kendra Daly				
	Copepod Prey Abundance	BG-236-O				
	SO GLOBEC: Krill Age and Dietary History	Rodger Harvey				
		BG-237-0				
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	John Hildebrand				
	West Antarctic Project Area	BG-239-O				
	SO GLOBEC: Krill Physiology and Fish Ecology	Jose Torres				
		BG-245-0				
	SO GLOBEC: Krill Distributions, Physiology and Predation;	Meng Zhou				
	Copepod Prey Abundance	BG-248-0				
	http://www.ccpo.odu.edu/Research/globec_menu.html					
	Antarctic Data Repository for LMG02-03		FIREIRA	DUC	F/0.1/00000	<b>-</b> • ·
LMG02-4	Dry Dock and Maintenance Period	NA	5/25/2002	PUQ	5/31/2002	TAL
	Palmer Station Shuttle		6/25/2002	TAL	6/30/2002	PUQ
LMG 02-4A		NA	7/5/2002	PUQ	7/10/2002	PAL
	Hazardous waste onload and Fueling Palmer Station Antarctic Data Repository for LMG02-04A		7/19/2002	PAL	7/23/2002	PUQ
	Antarctic Data Repository for LMG02-04A Open Period	NA	7/24/2002		7/20/2002	
LMG02-4B	Open Period SO GLOBEC: Foraging Ecology of Crabeater Seals			At PUQ	7/29/2002	At PUQ
LMG02-5	SU GLODEU. Foraging Ecology of Gradeater Seals	Dan Costa BG-232-O	7/29/2002 8/3/2002	PUQ PAL	8/3/2002 9/12/2002	PAL PAL
	CO CLOREC: Sashird Faslary Using Observations and Dist					
	SO GLOBEC: Seabird Ecology Using Observations and Diet Samples	Bill Fraser	9/13/2002	PAL	9/18/2002	PUQ
	SO GLOBEC: Winter Distribution and Activities of Sea-ice Microbial	BG-234-O Chris Fritsen				
	Communities in the Western Antarctic Peninsula	BG-235-O				
	SO GLOBEC: Optical Environment of the Western Antarctic	Doug Martinson				
	Peninsula	OG-241-O				
	SO GLOBEC: Winter Ecology of Larval Krill: Quantifying Their	Robin Ross				
	Interaction with the Pack Ice Habitat	BG-244-O				
	http://www.ccpo.odu.edu/Research/globec_menu.html	BG-244-0				
	Antarctic Data Repository for LMG02-05					
LMG02-6	Palmer Station Opening Shuttle #1	NA	9/23/2002	PUQ	9/28/2002	PAL
	Antarctic Data Repository for LMG02-06		10/3/2002	PAL	10/7/2002	PUQ
LMG02-7	Palmer Station Opening Shuttle #2		10/11/2002	PUQ	10/14/2002	COPA
	Foraging Behavior and Demography of Pygoscelis Penguins (COPA	Wayne Trivelpiece	10/15/2002	COPA	10/16/2002	PAL
	Field Camp)	BO-040-O	10/19/2002	PAL	10/24/2002	PUQ
	Antarctic Data Repository for LMG02-07	20 040 0	10/10/2002	1712	10/2 1/2002	1 OQ
LMG02-7A	Open Period	NA	10/25/2002	At PUQ	11/2/2002	At PUQ
LMG02-8	Cape Shirreff Field Camp Put-in/Opening	NOAA Collaboration	11/3/2002	PUQ	11/7/2002	CS
	Automated Weather Station servicing at Racer Rocks and	Chuck Stearns	11/7/2002	CS	11/9/2002	PAL
	Hugo Island	00-283-0	11/11/2002	PAL	11/13/2002	COPA
	COPA Field Camp pickup	Wayne Trivelpiece	11/13/2002	COPA	11/17/2002	PUQ
	Antarctic Data Repository for LMG02-08	BO-040-O				
LMG02-9	The Scotia Arc GPS Project: Focus on the Antarctic Peninsula and	Fred Taylor	11/23/2002	PUQ	12/1/2002	PAL
	South Shetland Islands	GO-080-O	12/1/2002	PAL	12/18/2002	PAL
	AMS Radiocarbon Chronolgy of Glacier Fluctuations in the South	Brenda Hall	12/20/2002	PAL	12/23/2002	PUQ
	Shetland Islands During the Last Glacial/Interglacial Hemicycle:	IO-196-L				
	Implications for the Role of Antarctica in Global Climate Change					
	(Hall Field Camp Put-in on Liv. Island)					
	Antarctic Data Repository for LMG02-09					
LMG03-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem	Bill Fraser	12/31/2002	PUQ	1/4/2003	PAL
	An Ice-Dominated Environment (LTER)	BP-013-O	1/5/2003	PAL	2/2/2003	PAL
	http://www.icess.ucsb.edu	Maria Vernet	2/4/2003	PAL	2/8/2003	PUQ
		BP-016-O				
		Doug Martinson				
		-	1			
		BP-021-O				
		BP-021-O Langdon Quetin Robin Ross				
		Langdon Quetin				
		Langdon Quetin Robin Ross				
		Langdon Quetin Robin Ross BP-028-O				
		Langdon Quetin Robin Ross BP-028-O Ray Smith				

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG03-2	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	John Hildebrand	2/13/2003	PUQ	2/17/2003	PAL
	West Antarctic Project Area	BP-239-O	2/17/2003	PAL	3/2/2003	PAL
	SO GLOBEC: Circulation and Water Property Evolution	Bob Beardsley	3/3/2003	PAL	3/7/2003	PUQ
	http://www.ccpo.odu.edu/Research/globec menu.html	OG-231-O				
	Antarctic Data Repository for LMG03-02					
LMG03-3	Development of a luminescence dating capability for antarctic	Glenn Berger	3/12/2003	PUQ	3/16/2003	PAL
	glaciomarine sediments: Tests of signal zeroing at the Antarctic	GO-092-O	3/17/2003	PAL	3/25/2003	PAL
	peninsula		3/25/2003	PAL	3/29/2003	PUQ
	http://www.dees.dri.edu/Projects/berger_antarctica.htm Antarctic Data Repository for LMG03-03					
LMG03-4	Structure, function and expression of tbuulins, globins, and	Bill Detrich	4/5/2003	PUQ	4/9/2003	PAL
LIVIG03-4	microtubule-dependent motors from cold-adapted Antarctic fishes	B-037-L	4/11/2003	PAL	4/25/2003	PAL
		D-037-L	4/11/2000	17.2	4/20/2000	171
	Cold body temperature as an evolutionary shaping force in the	Bruce Sidell				
	physiology of Antarctic fishes	B-036-L	4/25/2003	PAL	5/2/2003	PAL
	CTD operations and mooring recovery science of opportunity	Martin Visbeck	5/3/2003	PAL	5/7/2003	PUQ
	Antarctic Data Repository for LMG03-04					
LMG03-4A	Structure, function and expression of tbuulins, globins, and	Bill Detrich	5/10/2003	PUQ	5/14/2003	PAL
	microtubule-dependent motors from cold-adapted Antarctic fishes	B-037-L	5/16/2003	PAL	5/20/2003	PAL
			5/20/2003	PAL	5/23/2003	PAL
	Cold body temperature as an evolutionary shaping force in the	Bruce Sidell	5/23/2003	PAL	5/24/2003	VRN
	physiology of Antarctic fishes	B-036-L	5/24/2003	VRN	5/26/2003	PAL
	Antarctic Data Repository for LMG03-04A		6/1/2003	PAL	6/5/2003	PUQ
LMG03-5	Palmer Station Shuttle	NA	6/16/2003	PUQ	6/20/2003	PAL
Maintananaa	Maintenance Deried at Dunte Arange, Chile		6/24/2003	PAL	6/28/2003	PUQ
Maintenance LMG03-5A	Maintenance Period at Punta Arenas, Chile Palmer Station Shuttle	NA	6/29/2003 8/16/2003	At PUQ PUQ	8/15/2003 8/18/2003	At PUQ PAL
LIVIGU3-5A	Advanced Microwave Scanning Radiometer (AMSR) Sea Ice	Konrad Steffen	8/21/2003	POQ	9/3/2003	PAL
	Validation during the Traverse to Antarctica	O-309-L	0/21/2003	I AL	3/3/2003	100
	http://www.ghcc.msfc.nasa.gov/AMSR/	0-000-2				
	Antarctic Data Repository for LMG03-05A					
Open Period	Open Period for Maintenance	NA	9/7/2003	At PUQ	9/20/2003	At PUQ
LMG03-6	Palmer Station Shuttle	NA	9/22/2003	PUQ	9/26/2003	PAL
			10/1/2003	PAL	10/5/2003	PUQ
LMG03-7	Palmer Station Shuttle	NA	10/10/2003	PUQ	10/14/2003	COPA
			10/14/2003	COPA	10/16/2003	PAL
			10/18/2003	PAL	10/23/2003	PUQ
LMG03-7A	Open Period	NA	10/23/2003	At PUQ	11/6/2003	At PUQ
LMG03-8	Dynamic Similarity or Size Proportionality?: Adaptations of a Polar	Jeannette Yen	11/7/2003	PUQ	11/11/2003	CS
	Copepod	B-285-L	11/11/2003	CS	11/12/2003	PAL
	Long-Term Data Collection at Select Antarctic Peninsula Visitor	Ronald Naveen	11/13/2003	PAL	11/14/2003	PMN
	Sites	B-086-E	11/14/2003 11/14/2003	PMN	11/14/2003 11/19/2003	PAL PUQ
LMG03-9	Antarctic Data Repository for LMG03-08 Global Climate Change and the Evolutionary Ecology of Antarctic	Daniel Blake	11/23/2003	PAL PUQ	11/30/2003	POQ
LIVIG03-9	Mollusks in the Late Eccene	G-065-L	12/2/2003	PAL	12/29/2003	PUQ
	Evolution and Biogeography of Late Cretaceous Vertebrates from	Judd Case	12/2/2003	I AL	12/23/2005	100
	the James Ross Basin, Antarctic Peninsula	G-061-E				
	Dynamics of Predator-Prey Behavior in the Antarctic Ocean	Richard Veit				
		B-023-L				
	Antarctic Data Repository for LMG03-09					
LMG04-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Bill Fraser	1/1/2004	PUQ	1/5/2004	PAL
	An Ice-Dominated Environment (LTER)	BP-013-O	1/7/2004	PAL	1/23/2004	Avian Island
	http://www.icess.ucsb.edu	Maria Vernet	1/23/2004	Avian Island	1/24/2004	ROT
	_	BP-016-O	1/25/2004	ROT	1/27/2004	Avian Island
		Doug Martinson	1/27/2004	Avian Island	2/1/2004	PAL
		BP-021-O	2/2/2004	PAL	2/7/2004	PUQ
		Langdon Quetin				
		Languon Queim				
		Robin Ross				
		Robin Ross BP-028-O				
		Robin Ross BP-028-O Ray Smith				
		Robin Ross BP-028-O Ray Smith BP-032-O				
		Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow				
	Antarctic Data Repository for LMG04-01	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O	2/40/0004		0/16/0004	
LMG04-2	Plankton Community Structure and Iron Distibution in	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures	2/12/2004	PUQ	2/16/2004	PAL
LMG04-2	Plankton Community Structure and Iron Distibution in the Southern Drake Passage	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures B-225-L	2/17/2004	PAL	2/18/2004	PMN
LMG04-2	Plankton Community Structure and Iron Distibution in	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures B-225-L B. Greg Mitchell	2/17/2004 2/18/2004	PAL PMN	2/18/2004 3/18/2004	PMN PAL
LMG04-2	Plankton Community Structure and Iron Distibution in the Southern Drake Passage	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures B-225-L B. Greg Mitchell B-228-L	2/17/2004	PAL	2/18/2004	PMN
LMG04-2	Plankton Community Structure and Iron Distibution in the Southern Drake Passage <u>http://www.es.umb.edu/faculty/mzh/files/sfz/sfz.htm</u>	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures B-225-L B. Greg Mitchell B-228-L Meng Zhou	2/17/2004 2/18/2004	PAL PMN	2/18/2004 3/18/2004	PMN PAL
	Plankton Community Structure and Iron Distibution in the Southern Drake Passage <u>http://www.es.umb.edu/faculty/mzh/files/sfz/sfz.htm</u> <u>Antarctic Data Repository for LMG04-02</u>	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures B-225-L B. Greg Mitchell B-228-L Meng Zhou B-248-L	2/17/2004 2/18/2004 3/20/2004	Pal Pmn Pal	2/18/2004 3/18/2004 3/24/2004	PMN Pal Puq
LMG04-2 LMG04-3	Plankton Community Structure and Iron Distibution in the Southern Drake Passage <u>http://www.es.umb.edu/faculty/mzh/files/sfz/sfz.htm</u> <u>Antarctic Data Repository for LMG04-02</u> SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures B-225-L B. Greg Mitchell B-228-L Meng Zhou B-248-L John Hildebrand	2/17/2004 2/18/2004 3/20/2004 3/28/2004	PAL PMN PAL PUQ	2/18/2004 3/18/2004 3/24/2004 4/2/2004	PMN PAL PUQ KGI
	Plankton Community Structure and Iron Distibution in the Southern Drake Passage <u>http://www.es.umb.edu/faculty/mzh/files/sfz/sfz.htm</u> <u>Antarctic Data Repository for LMG04-02</u>	Robin Ross BP-028-O Ray Smith BP-032-O Hugh Ducklow BP-045-O Chris Measures B-225-L B. Greg Mitchell B-228-L Meng Zhou B-248-L	2/17/2004 2/18/2004 3/20/2004	Pal Pmn Pal	2/18/2004 3/18/2004 3/24/2004	PMN Pal Puq

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG04-4	Collaborative research: Paleohistory of the Larsen Ice Shelf: Phase	Eugene Domack	4/16/2004	PUQ	5/9/2004	PAL
Emoort		G-096-L	5/19/2004	PAL	5/20/2004	ROT
	 Consortium on the Ocean's Role in Climate (CORC)	Martin Visbeck	5/21/2004	ROT	5/22/2004	VRN
	AbRupt climate CHange Studies (ARCHES)	0-124-L	5/23/2004	VRN	5/27/2004	PUQ
	Antarctic Data Repository for LMG04-04					
LMG04-5	Palmer Station Shuttle	N/A	5/14/2004	PUQ	5/18/2004	PAL
			5/19/2004	PAL	5/20/2004	ROT
			5/21/2004	ROT	5/22/2004	VRN
	Antarctic Data Repository for LMG04-05		5/22/2004	VRN	5/27/2004	PUQ
LMG04-6	Palmer Station Shuttle	N/A	5/30/2004	PUQ	6/3/2004	PAL
	Antarctic Data Repository for LMG04-06		6/5/2004	PAL	6/9/2004	PUQ
LMG04-7	Palmer Station Shuttle	N/A	6/12/2004	PUQ	6/16/2004	PAL
			6/23/2004	PAL	6/27/2004	PUQ
LMG04-8	Northbound hazardous waste run	N/A	6/30/2004	PUQ	7/17/2004	PAN
	Antarctic Data Repository for LMG04-08		7/22/2004	PAN	7/27/2004	FCH
LMG04-9	Maintenance Period/Dry Dock at Port Fourchon, LA	N/A		At FCH		
LMG04-10	Southbound Transit to PUQ	N/A	8/19/2004	FCH	8/26/2004	PAN
	Talcahuano Dry Dock-Sonar window leak repair		8/31/2004	PAN	9/13/2004	TAL
			9/17/2004	TAL	9/23/2004	PUQ
LMG04-11	Palmer Station Opening	Steven Emerson	9/28/2004	PUQ	10/3/2004	PAL
	Tracers of biological productivity and gas exchange	0-271-L	10/8/2004	PAL	10/13/2004	PUQ
	Antarctic Data Repository for LMG04-11					
LMG04-12	Foraging Behavior and Demography of Pygoscelis Penguins (COPA	Trivelpiece	10/17/2004	PUQ	10/21/2004	COPA
	Field Camp)	В-040-Е	10/21/2004	COPA	10/23/2004	PAL
	COPA Field Camp Opening		10/25/2004	PAL	10/30/2004	PUQ
	Antarctic Data Repository for LMG04-12		. 5/20/2004			100
LMG04-13A	Long-Term Data Collection at Select Antarctic Peninsula Visitor	Ronald Naveen	11/6/2004	PUQ	11/10/2004	CS
2	Sites	B-086-E	11/10/2004	CS	11/11/2004	PAL
	Cape Shirreff Field Camp Put-in/Opening		11/12/2004	PAL	11/12/2004	PMN
	COPA stop on northbound transit		11/12/2004	PMN	11/14/2004	COPA/
						Jubany/Frei
			11/14/2004	COPA/	11/18/2004	PUQ
	Antarctic Data Repository for LMG04-13A			Jubany/Frei		
LMG04-14	Relevance of planktonic larval despersal to endemism and	Kenneth Halanych	11/23/2004	PUQ	12/16/2004	PAL
LIVIG04-14	biogeography of antarctic benthic invertebrates	B-281-L	12/17/2004	PAL	12/10/2004	PUQ
	Salpa thompsoni in the Sourther Ocean: Bioenergetics, population	Pat Kremer	12/11/2004	FAL	12/22/2004	FUQ
	dynamics and biogeochemical impact	B-307-L				
	Antarctic Data Repository for LMG04-14	D-307-L				
LMG05-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Dill Engen	12/29/2004	PUQ	1/2/2005	PAL
LING05-01	An Ice-Dominated Environment (LTER)			POQ	2/1/2005	
		BP-013-O	1/4/2005			PAL
	http://www.icess.ucsb.edu	Maria Vernet	2/2/2005	PAL	2/6/2005	PUQ
		BP-016-O				
		Doug Martinson				
		BP-021-O				
		Langdon Quetin				
		Robin Ross				
		BP-028-O				
		Ray Smith				
		BP-032-O				
		Hugh Ducklow				
	Antarctic Data Repository for LMG05-01	BP-045-O				
LMG05-02	Paleohistory of the Larsen Ice Shelf: Phase III	Eugene Domack	2/11/2005	PUQ	3/12/2005	PUQ
		a aaa i				
		G-096-L				ar
LMG05-03	Palmer Station Shuttle and Turnover	G-096-L N/A	3/15/2005	PUQ	3/19/2005	PAL
LMG05-03			3/24/2005	PAL	3/24/2005	PMN
	Palmer Station Shuttle and Turnover	N/A	3/24/2005 3/25/2005	PAL PMN	3/24/2005 3/28/2005	PMN PUQ
LMG05-03 LMG05-04	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic	N/A John Hildebrand	3/24/2005 3/25/2005 4/2/2005	PAL PMN PUQ	3/24/2005 3/28/2005 4/7/2005	PMN PUQ PAL
LMG05-04	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area	N/A John Hildebrand B-239-L	3/24/2005 3/25/2005 4/2/2005 4/11/2005	PAL PMN PUQ PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005	PMN PUQ PAL PUQ
	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the	N/A John Hildebrand B-239-L Bruce Sidell	3/24/2005 3/25/2005 4/2/2005 4/11/2005 4/20/2005	PAL PMN PUQ PAL PUQ	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005	PMN PUQ PAL PUQ PAL
LMG05-04	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area	N/A John Hildebrand B-239-L	3/24/2005 3/25/2005 4/2/2005 4/11/2005 4/20/2005 4/26/2005	PAL PMN PUQ PAL PUQ PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 4/28/2005	PMN PUQ PAL PUQ PAL PAL
LMG05-04	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the	N/A John Hildebrand B-239-L Bruce Sidell	3/24/2005 3/25/2005 4/2/2005 4/11/2005 4/20/2005 4/26/2005 5/2/2005	PAL PMN PUQ PAL PUQ PAL PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 4/28/2005 5/3/2005	PMN PUQ PAL PUQ PAL PAL PAL
LMG05-04	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the	N/A John Hildebrand B-239-L Bruce Sidell	3/24/2005 3/25/2005 4/2/2005 4/11/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005	PAL PMN PUQ PAL PUQ PAL PAL PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 4/28/2005 5/3/2005 5/6/2005	PMN PUQ PUQ PAL PAL PAL PAL PAL
LMG05-04 LMG05-05	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes	N/A John Hildebrand B-239-L Bruce Sidell B-036-L	3/24/2005 3/25/2005 4/2/2005 4/11/2005 4/20/2005 5/2/2005 5/2/2005 5/4/2005 5/8/2005	PAL PMN PUQ PAL PUQ PAL PAL PAL PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 5/3/2005 5/6/2005 5/12/2005	PMN PUQ PAL PAL PAL PAL PAL PAL PUQ
LMG05-04	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell	3/24/2005 3/25/2005 4/2/2005 4/11/2005 4/20/2005 5/2/2005 5/2/2005 5/8/2005 5/18/2005	PAL PMN PUQ PAL PUQ PAL PAL PAL PAL PAL PUQ	3/24/2005 3/28/2005 4/12/2005 4/25/2005 4/28/2005 5/3/2005 5/6/2005 5/12/2005 5/22/2005	PMN PUQ PAL PAL PAL PAL PAL PAL PUQ PAL
LMG05-04 LMG05-05	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes	N/A John Hildebrand B-239-L Bruce Sidell B-036-L	3/24/2005 3/25/2005 4/2/2005 4/11/2005 4/20/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/22/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PUQ PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 5/3/2005 5/6/2005 5/12/2005 5/22/2005 5/22/2005	PMN PUQ PAL PAL PAL PAL PAL PUQ PAL PAL PAL
LMG05-04 LMG05-05	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/22/2005 5/22/2005 5/27/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 5/3/2005 5/6/2005 5/12/2005 5/22/2005 5/25/2005 5/28/2005	PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL
LMG05-04 LMG05-05	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/18/2005 5/22/2005 5/22/2005 5/27/2005 5/31/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/17/2005 4/15/2005 4/25/2005 5/3/2005 5/12/2005 5/22/2005 5/22/2005 5/22/2005 5/28/2005 6/1/2005	PMN PUQ PAL PAL PAL PAL PAL PUQ PAL PAL PAL PAL PAL
LMG05-04 LMG05-05	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell B-036-L	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/22/2005 5/22/2005 5/27/2005 5/31/2005 6/5/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 5/3/2005 5/3/2005 5/22/2005 5/22/2005 5/22/2005 5/28/2005 6/1/2005 6/9/2005	PMN PUQ PAL PAL PAL PAL PAL PUQ PAL PAL PAL PAL PAL PAL PAL PUQ
LMG05-04 LMG05-05	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Tracers of Biological Productivity and Gas Exchange	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell B-036-L Steven Emerson	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/22/2005 5/22/2005 5/27/2005 5/31/2005 6/5/2005 6/13/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/17/2005 4/15/2005 4/25/2005 5/3/2005 5/12/2005 5/22/2005 5/22/2005 5/28/2005 6/1/2005 6/9/2005 6/18/2005	PMN PUQ PAL PAL PAL PAL PUQ PAL PAL PAL PAL PAL PUQ PAL
LMG05-04 LMG05-05	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Tracers of Biological Productivity and Gas Exchange Palmer Station hazardous waste pickup	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell B-036-L	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/22/2005 5/22/2005 5/27/2005 5/31/2005 6/5/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 5/3/2005 5/3/2005 5/22/2005 5/22/2005 5/22/2005 5/28/2005 6/1/2005 6/9/2005	PMN PUQ PAL PAL PAL PAL PAL PUQ PAL PAL PAL PAL PAL PAL PUQ
LMG05-04 LMG05-05 LMG05-06	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Tracers of Biological Productivity and Gas Exchange Palmer Station hazardous waste pickup Antarctic Data Repository for LMG05-07	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell B-036-L Steven Emerson O-271-L	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/22/2005 5/27/2005 5/27/2005 6/5/2005 6/13/2005 6/24/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/17/2005 4/15/2005 4/25/2005 5/3/2005 5/6/2005 5/22/2005 5/25/2005 5/28/2005 6/12/2005 6/9/2005 6/18/2005 6/28/2005	PMN PUQ PAL PAL PAL PAL PAL PUQ PAL PAL PAL PAL PAL PAL PUQ PAL PUQ
LMG05-04 LMG05-05 LMG05-06 LMG05-07	Palmer Station Shuttle and Turnover         Mysticete Whale Acoustic Census in the GLOBEC West Antarctic         Project Area         Cold body Temperature as an Evolutionary Shaping Force in the         Physiology of Antarctic Fishes         Cold body Temperature as an Evolutionary Shaping Force in the         Physiology of Antarctic Fishes         Tracers of Biological Productivity and Gas Exchange         Palmer Station hazardous waste pickup         Antarctic Data Repository for LMG05-07         Northbound hazardous waste runto Port Hueneme, CA	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell B-036-L Steven Emerson O-271-L N/A	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/22/2005 5/27/2005 5/27/2005 5/27/2005 6/5/2005 6/13/2005 6/24/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/7/2005 4/15/2005 4/25/2005 5/3/2005 5/6/2005 5/22/2005 5/22/2005 5/22/2005 5/28/2005 6/1/2005 6/18/2005 6/18/2005 6/28/2005	PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL
LMG05-04 LMG05-05 LMG05-06	Palmer Station Shuttle and Turnover Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes Tracers of Biological Productivity and Gas Exchange Palmer Station hazardous waste pickup Antarctic Data Repository for LMG05-07	N/A John Hildebrand B-239-L Bruce Sidell B-036-L Bruce Sidell B-036-L Steven Emerson O-271-L	3/24/2005 3/25/2005 4/2/2005 4/20/2005 4/26/2005 5/2/2005 5/4/2005 5/8/2005 5/18/2005 5/22/2005 5/27/2005 5/27/2005 6/5/2005 6/13/2005 6/24/2005	PAL PMN PUQ PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL	3/24/2005 3/28/2005 4/17/2005 4/15/2005 4/25/2005 5/3/2005 5/6/2005 5/22/2005 5/25/2005 5/28/2005 6/12/2005 6/9/2005 6/18/2005 6/28/2005	PMN PUQ PAL PAL PAL PAL PAL PUQ PAL PAL PAL PAL PAL PAL PUQ PAL PUQ

LM005-10         Platter Station opening.         NA         Platter Station opening.         PLA         B020200 [         B020 [         B020 [         B020 [         B020 [         B020 [         <	CRUISE #	CRUISE by NAME	Pls MG05 10 was not used	Departure	PORT	Arrival	PORT
Index         Product         PA         P0242005         PPU         109/2005           LMG05-14         LMG Dydok         NA         109/2006         FUL         109/2005           LMG05-12         COPA Opening         NA         109/2005         FUL         109/2005           LMG05-14         Long-Term Data Collection at Select Androtic Peninsula Visitor         Rotat Androtic Peninsula Visitor         Rotat Androtic Peninsula Visitor         F0/2016         CCPA         111/122005         FUL         111/122005           LMG05-14         Long-Term Data Collection at Select Androtic Peninsula Visitor         Rotat Anarctic Nation pelagic distribution         F0/2016         F0/201         111/122005         FUL         111/122005           LMG05-14         Long-Term Education Environment (LTER)         Fore atriting indexed Exe         F1/17/2005         FUL         111/122005         FUL         111/122005           LMG05-14         Long-Term Education and Anarctic Mathie Ecosynthe         Bill Fraser         11/17/2005         FUL	MG05-11			9/16/2005	PLIO	9/20/2005	PAL
LMG05-11A         LMG         T01/2005         PUD         T01/2005           LMG05-12         COPA Opening         N/A         10/222006         FUL         10/22006           LMG05-12         COPA Opening         N/A         10/222006         FUD         10/22006           LMG05-13         Ango Term Data Collection as Select Antactor Deminula Visitor         Siles.         Fondal Neven         11/122005         FNN	.10005-11		N/A				PUQ
LMG05-12         COPA Opening         NA         101922005         FUL         10282005           LMG05-12         COPA Opening         NA         10282005         COPA         1192205           LMG05-14         Dop Term Data Collection at Select Antarctic Pennaula Visitor         Bood-E         111172005         PVL         111722005           LMG05-14         Dop Term Data Collection at Select Antarctic Pennaula Visitor         Bood-E         111172005         PVL         111722005           LMG05-144         Floe drilling isolongy: Influence of fouring islands on pelagite exstytemes in the Weddell Sea         Kan Smith         111252005         PVL         11222005           LMG06-14         Floe drilling islands on pelagite exstytemes in the Weddell Sea         Sa04         111252005         PVL         11222005           LMG06-17         An promit Ecologital Reservch on the Antarctic Marine Ecosystem         Bit Finaser         11722005         PAL         12222005           LMG06-10         ang Term Ecologital Reservch on the Antarctic Marine Ecosystem         Bit Finaser         1172006         PAL         2222005           LMG06-12         Salpa thompsonin the Southern Ocean: Elonengetics, population         Bit Finaser         27142000         PAL         27192006           LMG06-02         Salpa thompsonin the Southern Ocean: Elonengetics, pop	MG05-11A	LMG Drvdock	N/A				TAL
Interaction							PUQ
Index cruise number: IMG05-13 was not used         PAL         11/32005         PAL         11/32005           LMG05-14         Long-Term Data Collection at Select Antarctic Peninsula Visitor Experison Sinter Max. 14, 15, 16.         B-086-E         11/1/32005         PLO         11/1/32005           LMG05-14         Eros Shirnef Teid Camp Put-in/Opening.         11/7/32005         PLO         11/1/32005         PLO         11/1/32005           LMG05-14         Fros Ghilming Londregue Init 16.         11/7/32005         PAL         12/32005         PAL         12/32005           LMG05-14         Long-Term Ecological Research on the Antarctic Marine Ecosystem         Bill Fraser         11/72006         PLQ         11/32006           LMG06-01         Long-Term Ecological Research on the Antarctic Marine Ecosystem         Bill Fraser         11/72006         PAL         2/4/2005           LMG06-01         Long-Term Ecological Research on the Antarctic Marine Ecosystem         Bill Fraser         11/72006         PAL         2/4/2005           LMG06-02         Salpa thompsoni in the Southern Ocean- Bioenergetics, population         Bill Fraser         11/72006         PLQ         2/19/2006           Maria Vernet         Bill Fraser         11/72/2005         PAL         2/19/2006         PLL         2/19/2006           LMG06-02         An	MG05-12	COPA Opening	N/A	10/22/2005	PUQ	10/26/2005	COPA
Note: cruise number L/K065-13 was not used         PUC         PUC           LMG05-14         Comp-Term Data Collection at Select Antractic Peninsula Visitor         Ronal Alwanon         11/1/2005         PUC         11/1/2005           LMG05-14         Front Data Collection at Select Antractic Peninsula Visitor         B-086-E         11/1/2005         PUC         11/1/2005           LMG05-14A         Front Data Collection at Select Antractic Peninsula Visitor         Ren Smith         11/2/2005         PUC         11/1/2005           LMG05-14A         Front Data Collection at Select Antractic Marine Ecosystem         Hill Peser         11/1/2006         PAL         11/2/2005           LMG06-01         Long-Term Ecological Research on the Antarctic Marine Ecosystem         B/18-1/P         11/1/2006         PAL         2/2/2006           LMG06-02         Long-Term Ecological Research on the Antarctic Marine Ecosystem         B/18-1/P         11/1/2006         PAL         2/9/2006           LMG06-02         LMG06-02         Long-Term Ecological Research on the Antarctic Marine Ecosystem         B/18-1/P         11/1/2006         PAL         2/9/2006           LMG06-02         LMG06-02         Virano         B/37-L         2/9/2006         PAL         3/1/2006           LMG06-02         Saloa thompsonin Inthe Southern Ocean: Bioenergetics, population					COPA	10/29/2005	PAL
LMG06-13         Long-Term Data Collection at Select Antarctic Peninsula Visitor         Boald Naveen Soles         11/1/2005         PCS         11/1/2005           Cape Shirreff Field Camp Put-in/Opening. LTERS for Val No. 14 15, 16.         Field Camp Put-in/Opening.         11/1/2005         PAL         11/1/2005           LMG05-14A         Free drifting Leadergs: Influence of freating liands on pelagic assistmen in the Weeldel Gae         11/1/2006         PAL         11/1/2006           LMG06-01         Long-Term Ecological Research on the Antarctic Marine Ecosystem. Influe Xieweni Expension         Bill Fraser         11/1/2006         PAL         12/2/2006           LMG06-01         Long-Term Ecological Research on the Antarctic Marine Ecosystem. Influe Xieweni Expension         Bill Fraser         11/1/2006         PAL         2/1/2/006           LMG06-02         Long-Term Ecological Research on the Antarctic Marine Ecosystem. Influe Xieweni Expension         Bill Fraser         11/1/2/2006         PAL         2/1/2/2006           LMG06-03         Langdon Guetin In Boga Leader Sign Mongsonia In the Southern Ocean. Bionergradisc, population dynamics and biogeochemical Impact         Bill Fraser         11/1/2/2006         PAL         2/19/2006           LMG06-03         PAL         2/19/2006         PAL         2/19/2006         PAL         2/19/2006           LMG06-04         PAL         2/19/2006 <td< td=""><td></td><td></td><td></td><td>10/30/2005</td><td>PAL</td><td>11/3/2005</td><td>PUQ</td></td<>				10/30/2005	PAL	11/3/2005	PUQ
Sites. Cape Shireff Field Camp Put-in/Opening. LTER Site Value 14, 15, 16.         D-086-E         11/11/2005 11/17/2005         OS         11/11/2005 11/17/2005           LMG05-14A         Free diffing iceberg: Influence of floating islands on pelagic ecosystems in the Weddel Sea         Ken Smith 11/2/2005         PAL         11/2/2005         PUL         11/2/2005           LMG06-11         Ang Tem Ecosygical Research on the Antarctic Marine Ecosystem Influencement (LTER)         Bif Feser         1/11/2005         PUL         1/22/2006           LMG06-01         Ang Tem Ecosygical Research on the Antarctic Marine Ecosystem Influencement (LTER)         Bif Feser         1/11/2005         PAL         2/4/2006           LMG06-02         Ang Tem Ecosygical Research on the Antarctic Marine Ecosystem Influencement (LTER)         Bif Feser         1/12/2005         PAL         2/4/2006           LMG06-02         Ang Tem Ecosygical Research on the Antarctic Marine Ecosystem Influencement (LTER)         Bif Search PP         1/12/2006         PAL         2/12/2006           LMG06-02         Saipa thompsoni in the Southem Ocean: Bioenergetics, population dynamics and biogochemical import antarctic Data Repository for LMG06-02         Lurence Madin         2/14/2006         PAL         2/12/2006           LMG06-03         Proice Passage         NA         4/8/2006         PAL         3/11/2006           LMG06-04         Pater Sat	1005 44			44/7/0005	DUO	4.4.4.0.00.05	
Cage Shirref Field Camp Put-InOpening. LTERS Nav Nat, Vo. 14, 51, 6         111/122005         PMM         111/122005           LM005-144         Free drifting isobergs: Influence of Inating islands on pelagic ecosystems in the Weidel Sea         660 Smith 9.090.         11/122005         PAL         11/122005           LM005-144         Free drifting isobergs: Influence of Inating islands on pelagic ecosystems in the Weidel Sea         660 Smith 9.090.         11/122005         PAL         11/22006           LM006-01         Long-Term Ecological Research on the Antarctic Marrine Ecosystem Introllwork isses useb sel         11/12005         PAL         2/22/2005         PAL         2/22/2005           LM036-01         Long-Term Ecological Research on the Antarctic Marrine Ecosystem Introllwork isses useb sel         11/12005         PAL         2/22/2005         PAL         2/22/2005           LM036-02         Salps flormpsoni in the Southern Ocean: Bioanergetics, population Inotact         Laurence Madin         2/14/2006         PAL         2/19/2006           LM0306-03         Processee dwing spatial and temporal variability of surface pCO2 in The Drake Passage         NA         4/122006         PAL         3/11/2006           LM0306-03         Processee dwing spatial and temporal variability of surface pCO2 in The Drake Passage         NA         4/122006         PAL         4/122006           LM0306-04         Palmer	.MG05-14						CS PMN
LTER Site View Nov. 14, 15, 16.         T1/17/2006         PAL         11/2/2006           LINGO-14A         Free drifting isolengy: Influence of floating islands on pellagic ecosystems in the Woddell Sea         PAL         11/2/2006         PAL         11/2/2006           LINGO-14A         Free drifting isolengy: Influence of floating islands on pellagic ecosystems in the Woddell Sea         PAL         12/2/2006         PAL         12/2/2006           LINGO-11         Long-Term Ecological Research on the Antarctic Marine Ecosystem         Bill Präser         17/2/2006         PAL         2/4/2006           http://www.lcess.ucsb.adu         1/157         B-4/14.         1/15/2006         PAL         2/4/2006           http://www.lcess.ucsb.adu         1/157         B-4/14.         1/15/2006         PAL         2/4/2006           LINGOB-12         Salpa thompsoni in the Southern Ocean: Bioenargetics, population         Lawrence Madin         2/14/2006         PAL         2/14/2006           LINGOB-12         Salpa thompsoni in the Southern Ocean: Bioenargetics, population         B-307.4         2/14/2006         PAL         3/11/2006           LINGOB-03         PAL         2/14/2006         PAL         3/11/2006         PAL         3/11/2006           LINGOB-04         Advarctic Data Resonary for LINGOB-02         N/A         4/12/2006			D-000-L				PAL
LMG05-14A         Free driting teabargs: Influence of floating Islands on pelugic ecosystems in the Weddell Sea         Res Smith B-050.L         11/25/2005 PAL         12/23/2005 PAL         24/2005 PAL         24/2006 PAL							PUQ
LMG06-01         A.ong-Term Ecological Research on the Antarclic Marine Ecoaystem.         BII Fraser         1/1/2006         PAL         1/2/2/2005           LMG06-01         A.ong-Term Ecological Research on the Antarclic Marine Ecoaystem.         Bit Statu         1/1/2006         PAL         1/2/2/2005           Maria Vernet         2/5/2006         PAL         1/2/2/2006         PAL         1/2/2/2006           Bit Gene Deminated Environment (LTER)         Bit Gene Degne Martinson         B-262-L         Langdon Quelin         PAL         1/2/2006           B-028-LP         B-028-LP         B-028-LP         PAL         1/2/2006         PAL         1/1/2006           Marine Rosin         B-028-LP         Res Smith         B-028-LP         PAL         1/1/2006         PAL         1/1/2006           Aurancia and bogecohemical impact         B-028-LP         2/14/2006         PAL         1/1/2006         PAL         1/1/2006           LMG06-02         Salpa thompsoni in the Southern Ocean: Bioenergetics, population         Salrancia Martines Madin         2/14/2006         PAL         1/1/2006         PAL         1/1/2006 <td>MG05-14A</td> <td></td> <td>Ken Smith</td> <td></td> <td></td> <td></td> <td>PAL</td>	MG05-14A		Ken Smith				PAL
LMG06-01         Comp-Term Ecological Research on the Antarctic Marine Ecosystem:         Intervent (LTER)         Intervent (			B-050-L	11/29/2005	PAL	12/23/2005	PAL
LMG06-01         Long-Term Ecological Research on the Antarclic Marine Ecosystem.         Bit Fraser         11/12006         PUQ         11/22006           Antice-Dominated Environment (LTER)         B-013-L/P         Minia Vernet         2/5/2006         PAL         2/9/2006           B-016-L/P         Doug Martinson         B-022-L         Langdon Quetin         Robitson         2/9/2006         PAL         2/9/2006           LMG06-02         Salpa thompson in the Southern Ocean: Bioenergetics, population         B-032-L/P         PUQ         2/14/2006         PUQ         2/19/2006           LMG06-03         Rap attompson in the Southern Ocean: Bioenergetics, population         B-037-L         3/21/2006         PUQ         3/11/2006           Antarcle Data Repository for LMG06-02         3/11/2006         PUQ         3/11/2006         PUQ         3/11/2006           LMG06-03         Paimer Station Shuttie         NIA         4/15/2006         PAL         4/12/2006           LMG06-04         Paimer Station Turover         NIA         4/15/2006         PUQ         4/12/2006           LMG06-03         Repository for LMG06-02         NIA         4/15/2006         PUQ         4/2/2006           LMG06-03         Repository for LMG06-02         NIA         4/15/2006         PUQ         4/2/2006<							CS
An loc-Dominated Environment (LTER)         6-013-L/P         117/2006         PAL         2/4/2006           http://www.icess.usab.edu         B-016-L/P         2/5/2006         PAL         2/9/2006           B-016-L/P         Doug Martinson         B-021-L/P         Doug Martinson         B-021-L/P           Langdon Cuctin         Robin Ross         B-022-L/P         Ray Smith         B-023-L/P           Ray Smith         B-032-L/P         Ray Smith         B-032-L/P         PUQ         2/19/2006           graamics and biogeochemical impact         B-07-L         2/14/2006         PUQ         3/11/2006           graamics and biogeochemical impact         B-07-L         3/11/2006         PUQ         3/11/2006           Antarctic Data Repository for LM006-02         In Taro Takahashi         3/21/2006         PUQ         3/11/2006           LMG06-03         Prokerse passage         NNA         4/15/2006         PUQ         3/12/2006           LMG06-04         Pather Station Shutte         NIA         4/15/2006         PUQ         3/12/2006           LMG06-03         Prokerse passage         S/3/2006         PUQ         3/12/2006         PUQ         3/12/2006           LMG06-04         Pather Station Shutte         NNA         4/15/2006							PUQ
http://www.icaess.ucsb.adu         Maria Vormet B-05-LP         2/5/2006         PAL         2/9/2006           B-021-L Langdon Quetin Robin Ross B-023-LP         Antarcic Data Repository for LMC06-02         PUQ         2/19/2006           LMG06-02         Salpa thompsoni in the Southern Ocean: Bioenergetics, population dynamics and biogeochemical impact         2/14/2006         PUQ         2/19/2006           Antarcic Data Repository for LMC06-02         3/11/2006         PAL         3/11/2006         PAL         3/11/2006           LMG06-03         Poincesses driving spatial and temporal variability of surface pC/2 in the Drake Passage         N/A         4/15/2006         PUQ         4/12/2006           LMG06-03         Palmer Station Shuttle         N/A         4/15/2006         PUQ         4/12/2006           LMG06-03         Palmer Station Shuttle         N/A         4/15/2006         PUQ         4/12/2006           LMG06-03         Palmer Station Shuttle         N/A         4/15/2006         PUQ         4/2/2006           LMG06-03         Palmer Station Shuttle         N/A         4/15/2006         PUQ         5/2/2006           LMG06-03         Palmer Station Shuttle         N/A         4/15/2006         PUQ         5/2/2/2006           LMG06-00         palmer Station Shuttle         N/A							PAL
B-016-LP         B-016-LP         B-021-L         D-021-L							PAL PUQ
Bits         Doug Marinson Bo21-L Langdon Quetin Robin Ross         Bits         Link         L		http://www.icess.ucsb.edu		2/5/2006	PAL	2/9/2006	PUQ
B-221-L Constraint         B-221-L Robin Ross         B-221-L B-2028-LP         Image of the time of the time of the time of							
Langdo Quetin Robin Ross B-023-L/P         Image: Support of the southern operation			-				
B-023-LP Ry Smith B-032-LP Hugh Ducktow         Image: Salpa thompsoni in the Southern Ocean: Bioenergetics, population dynamics and biogeochemical impact         B-032-LP Hugh Ducktow         Image: Salpa thompsoni in the Southern Ocean: Bioenergetics, population dynamics and biogeochemical impact         2/14/2006         PUQ         2/19/2006         PUQ         2/19/2006           Antarctic Data Repository for LMG06-02         Antarctic Data Repository for LMG06-02         Taro Takahsahi         3/21/2006         PUQ         3/12/2006         PUQ         3/12/2006           LMG06-03         Parker Station Shuttle Antarctic Data Repository for LMG06-03A         N/A         4/8/2006         PUQ         4/12/2006           LMG06-04         Palmer Station Shuttle Antarctic Data Repository for LMG06-03A         N/A         4/8/2006         PUQ         4/12/2006           LMG06-06         Palmer Station Innover Antarctic Data Repository for LMG06-05         N/A         4/8/2006         PUQ         4/22/2006           LMG06-08         Palmer Station Shuttle         N/A         6/8/2006         PAL         6/8/2006           LMG06-08         Palmer Station Shuttle         N/A         6/8/2006         PAL         6/8/2006           LMG06-09         Palmer Station Shuttle         N/A         6/8/2006         PAL         6/8/2006           LMG06-00         Open Period							
Ray Smith Bo33: UP High Ducklow Antarcic Data Repository for LMG06-02         Ray Smith Bo33: UP High Ducklow Bo45_UP         Ray Smith Bo33: UP Bo33:			Robin Ross				
B-032-LP Hugh Duckow B-045-LP         Public Duckow B-045-LP         Public Duckow B-045-LP         Public Duckow B-045-LP           LMG06-02         Salpa thompsoni in the Southern Ocean: Bioenergetics, population dynamics and biogeochemical impact         2/14/2006         PUL         3/11/2006           Antarctic Data Repository for LMG06-02         3/11/2006         PUL         3/11/2006         PUL         3/11/2006           LMG06-03         Processed driving spatial and temporal variability of surface pC02 in Antarctic Data Repository for LMG06-02         Taro Takahashi         3/21/2006         PUQ         3/3/2006           LMG06-04         Palmer Station Shuttle         N/A         4/4/52/006         PUQ         4/12/2006           LMG06-05         Palmer Station Immover         N/A         4/15/2006         PUQ         4/3/2/2006           LMG06-06         Palmer Station Immover         N/A         4/15/2006         PUQ         4/3/2/2006           LMG06-07         Palmer Station Immover         N/A         4/15/2006         PUQ         6/2/2/2006           LMG06-08         Palmer Station Shuttle         N/A         6/19/2006         PAL         6/2/2/2006           LMG06-09         Palmer Station Shuttle         N/A         6/2/2/2006         PAL         6/2/2/2006           LMG06-00         Palmer			B-028-L/P				
Hugh Ducklow Bod5LP         Hugh Ducklow Bod5LP         Image: Constraints and biogeochemical impact dynamics and biogeochemical impact         Constraints and biogeochemical impact dynamics and biogeochemical impact         Constraints and biogeochemical impact         Co			-				
LMG06-02         B-045-L/P             LMG06-02         Sigh thompsoin the Southern pact Antarctic Data Repository for LMG06-02         Laurence Madin B-307.L         2/14/2006         PAL         3/11/2006           LMG06-03         Processes driving spatial and temporal variability of surface pCO2 in the Drake Passage         Taro Takahashi         3/11/2006         PAL         3/16/2006           LMG06-30         Processes driving spatial and temporal variability of surface pCO2 in the Drake Passage         NA         4/8/2006         PUQ         4/12/2006           LMG06-30A         Palmer Station Shuttle Antarctic Data Repository for LMG06-03A         NA         4/8/2006         PUQ         4/12/2006           LMG06-05         Relevance of planktonic larval despersal to endemism and begography of antarctic benthic invertebrates         Kenneth Halanych 6/12/2006         FVLQ         6/12/2006           LMG06-07         Open Period         N/A         6/12/2006         PAL         6/12/2006           LMG06-08         Palmer Station Shuttle         N/A         6/12/2006         PAL         6/12/2006           LMG06-07         Open Period         N/A         8/12/2006         PAL         6/12/2006           LMG06-07         Open Period         N/A         8/12/2006         PAL         6/25/2/2006							
LMG06-02         Salpa thompsoni in the Southern Ocean: Bioenergetics, population dynamics and biogeochemical impact         Laurence Madin B-307-L         2/14/2006         PUQ         2/19/2006           Antarclic Data Repository for LMG08-02         11/12/06         3/11/2006         9/12/2008         PAL         3/11/2006           LMG06-03         Processes driving spatial and temporal variability of surface pCO2 in the Drake Passage         Taro Takahashi         3/21/2006         PUQ         3/29/2006           LMG06-03         Palmer Station Shuttle         N/A         4/16/2006         PUQ         4/12/2006           LMG06-04         Palmer Station Shuttle         N/A         4/25/2006         PUQ         4/20/2006           LMG06-05         Relevance of planktonic larval despersal to endemism and biogeography of antarcitic batta Repository for LMG06-05         Kenneth Halanych         5/31/2006         PUQ         5/20/2006           LMG06-06         Palmer Station Shuttle         N/A         6/9/2006         PAL         6/14/2006           LMG06-07         Open Period         N/A         6/31/2006         PUQ         8/20/2006           LMG06-07         Open Period         N/A         6/16/2006         PUQ         8/6/2006           LMG06-07         Open Period         N/A         8/6/2006         PUQ         <			-				
dynamics and biogeochemical impact         B-307-L         22/20/2006         PAL         3/11/2006           Antarclic Data Repository for LMG06-02         Intro Takahashi         3/21/2006         PAL         3/11/2006           LMG06-03         Processes driving spatial and temporal variability of surface pCO2 in the Drake Passage         3/21/2006         PUQ         3/21/2006           LMG06-03A         Palmer Station Shuttle         N/A         4/8/2006         PUQ         4/12/2006           LMG06-03A         Palmer Station Unover Antarctic Data Repository for LMG06-03         N/A         4/8/2006         PAL         4/4/2006           LMG06-04         Palmer Station Tumover Antarctic Data Repository for LMG06-04         N/A         4/8/2006         PAL         6/8/2006           LMG06-05         Relevance of planktonic lavid despersal to endemism and biogeography of antarctic benthic invertebrates         Kemeth Halanych         5/3/2006         PAL         6/8/2006           LMG06-06         Palmer Station Shuttle         N/A         6/25/2006         PAL         6/8/2006           LMG06-07         Open Period         N/A         7/3/2008         PAL         6/8/2006           LMG06-07         Open Period         N/A         8/16/2006         PAL         8/16/2006           LMG06-07         Open Perio		Colne thempsoni in the Southern Oscent Bisenergetics, nerulation		2/14/2006	PUO	2/10/2006	PAL
Anarctic Data Repository for LMG06-02         3/11/2006         3/11/2006         PMN         3/11/2006           LMG06-03         Processes driving spatial and temporal variability of surface pCO2 in the Drake Passage         3/21/2006         PUQ         3/21/2006         PUQ         3/21/2006           LMG06-03A         Palmer Station Shuttle         N/A         4/16/2006         PUQ         4/12/2006           LMG06-04         Palmer Station Shuttle         N/A         4/16/2006         PUQ         4/22/2006           LMG06-05         Relevance of planktonic larval despersal to endemism and biogeography of antarctic benthic invertebrates         N/A         4/25/2006         PUQ         5/20/2006           LMG06-06         Palmer Station Shuttle         N/A         4/25/2006         PUQ         6/25/206           LMG06-06         Relevance of planktonic larval despersal to endemism and biogeography of antarctic benthic invertebrates         Kenneth Halanych 5/21/2006         5/21/2006         PUQ         6/25/2006         PUQ         6/25/2006           LMG06-07         Open Period         N/A         7/3/2006         PUQ         8/6/2006         PUQ         8/6/2006           LMG06-07         Open Period         N/A         8/6/2006         PUQ         8/6/2006         PUQ         8/6/2006         PUQ         9/		•					PMN
Antarctic Data Repository for LMG06-02         3/12/2006         PAL         3/16/2006           LMG08-03         Processes driving spatial and temporal variability of surface pCO2 in Tarchabashi the Drake Passage         3/31/2006         PUQ         3/31/2006         PUQ         3/31/2006           LMG06-03         Palmer Station Shuttle Anitarctic Data Repository for LMG06-03A         N/A         4/16/2006         PUQ         4/12/2006           LMG06-04         Palmer Station Shuttle Anitarctic Data Repository for LMG06-04         N/A         4/35/2006         PUQ         4/30/2006           LMG06-05         Pulms Chain of unrover Anitarctic Data Repository for LMG06-05         N/A         5/13/2006         PUQ         6/14/2006           LMG06-06         Palmer Station Shuttle Day trip to Vernadsky Station         N/A         6/19/2006         PAL         6/14/2006           LMG06-07         Open Period         N/A         6/13/2006         PUQ         8/2/2006           LMG06-07         Open Period         N/A         8/10/2006         PUQ         8/10/2006           LMG06-07         Open Period         N/A         8/10/2006         PUQ         8/10/2006           LMG06-07         Open Period         N/A         8/10/2006         PUQ         8/10/2006           LMG06-01         Palmer S		dynamics and biogeochemical impact	D-307-L				PAL
the Drake Passage         C-214-L/N         3/31/2006         PAL         4/4/2006           LMG06-03A         Palmer Station Shuttle Antarctic Data Repository for LMG06-03A         N/A         4/8/2006         PUQ         4/12/2006           LMG06-05         Palmer Station Shuttle Diapatonic larva despersal to endemism and biogeography of antarctic benthic invertebrates Antarctic Data Repository for LMG06-05         N/A         4/82/2006         PUQ         4/12/2006           LMG06-06         Relevance of planktonic larva despersal to endemism and biogeography of antarctic benthic invertebrates Antarctic Data Repository for LMG06-05         Kenneth Halanych 5/3/2006         PUQ         6/14/2006           LMG06-07         Open Period         N/A         6/19/2006         PUQ         6/25/2006           LMG06-08         Palmer Station Shuttle Day trip to Vernadsky Station         N/A         7/3/2006         PUQ         8/10/2006           LMG06-07         Open Period         N/A         8/10/2006         PUQ         8/10/2006           LMG06-10         Palmer Station Shuttle Antarctic Data Repository for LMG06-08         N/A         8/18/2006         PUQ         8/10/2006           LMG06-10         Open Period         N/A         8/18/2006         PUQ         9/10/2006           LMG06-11         COPA Opening         N/A         10/11/2006		Antarctic Data Repository for LMG06-02					PUQ
LMG06-03A         Palmer Station Shuttle         N/A         4/8/2006         PUQ         4/12/2006           LMG06-04         Palmer Station Turnover         N/A         4/25/2006         PUA         4/22/2006           LMG06-05         Palmer Station Turnover         N/A         4/25/2006         PUA         4/30/2006           LMG06-05         Relevance of planktonic larval despersal to endemism and biogeography of antarcic benthic invertebrates         5/31/2006         PAL         6/32/2006           Antarcic Data Repository for LMG06-05         Relevance of planktonic larval despersal to endemism and biogeography of antarcic benthic invertebrates         6/9/2006         PAL         6/32/2006           LMG06-06         Palmer Station Shuttle         N/A         6/19/2006         PUQ         6/2/2/2006           LMG06-07         Open Period         N/A         6/19/2006         PUQ         8/10/2006           LMG06-08         Palmer Station Shuttle         N/A         8/6/2006         PUA         8/10/2006           LMG06-07         Open Period         N/A         8/10/2006         PUQ         8/10/2006           LMG06-09         Open Period         N/A         8/16/2006         PUQ         9/10/2006           LMG06-10         Palmer Station Opening         N/A         9/15/2006	MG06-03	Processes driving spatial and temporal variability of surface pCO2 in	Taro Takahashi	3/21/2006	PUQ	3/29/2006	PAL
Antarctic Data Repository for LMG06-03A         NIA         4/15/2006         PAL         4/22/2006           LM006-04         Palmer Station Turnover Antarctic Data Repository for LMG06-04         NIA         4/25/2006         PUQ         4/30/2006           LM0306-05         Relevance of planktonic larval despersal to endemism and biogeography of antarctic benthic invertentates         5/21/2006         PUA         6/14/2006           Antarctic Data Repository for LMG06-05         B-281-L         5/21/2006         PAL         6/14/2006           LM0306-06         Palmer Station Shuttle         NIA         6/19/2006         PUQ         6/22/2006           Day trip to Vernadsky Station         NIA         6/19/2006         PUA         6/22/2006           LM0306-07         Open Period         NIA         8/16/2006         PUQ         8/10/2006           LM0306-08         Palmer Station Shuttle         NIA         8/6/2006         PUQ         8/10/2006           LM0306-09         Open Period         NIA         8/16/2006         PUQ         8/10/2006           LM0306-10         Palmer Station Opening         NIA         8/18/2006         PUQ         9/10/2006           LM0306-11         Open Period         NIA         10/16/2006         PAL         9/10/2006		the Drake Passage	O-214-L/N	3/31/2006	PAL	4/4/2006	PUQ
Antarctic Data Repository for LMG06-03         N/A         4/15/2006         PAL         4/22/2006           LMG06-04         Palmer Station Turnover Antarctic Data Repository for LMG06-04         N/A         4/25/2006         PUQ         4/30/2006           LMG06-05         Relevance of planktonic larval despersal to endemism and biogeography of antarctic benthic invertentates         5/31/2006         PUQ         5/20/2006           Antarctic Data Repository for LMG06-05         B-281-L         5/21/2006         PAL         6/14/2006           LMG06-06         Palmer Station Shuttle         N/A         6/19/2006         PUQ         6/22/2006           Day trip to Vernadsky Station         N/A         6/19/2006         PUQ         6/22/2006           LMG06-07         Open Period         N/A         8/6/2006         PUQ         8/10/2006           LMG06-08         Palmer Station Shuttle         N/A         8/6/2006         PUQ         8/10/2006           LMG06-09         Open Period         N/A         8/18/2006         PUQ         8/10/2006           LMG06-10         Palmer Station Opening         N/A         8/18/2006         PUQ         9/10/2006           LMG06-11         COPA Opening         N/A         10/10/2006         PAL         10/11/2006 <t< td=""><td>4000.004</td><td></td><td></td><td>4/0/2000</td><td>DUO</td><td>4/40/0000</td><td>PAL</td></t<>	4000.004			4/0/2000	DUO	4/40/0000	PAL
LMG06-04 Antarctic Data Repository for LMG06-04         N/A         4/25/2006 5/3/2006         PUQ         4/30/2006 PAL           LMG06-05         Relevance of planktonic larval despersal to endemism and biogeography of antarctic benthic invertebrates Antarctic Data Repository for LMG06-05         Kenneth Halanych B-281-L         5/13/2006         PUQ         5/2/2/2006           LMG06-06         Palmer Station Shuttle Day trip to Vernadsky Station         N/A         6/19/2006         PAL         6/2/2/2006           LMG06-07         Open Period         N/A         7/3/2006         PUQ         8/2/2/2006           LMG06-08         Palmer Station Shuttle Day trip to Vernadsky Station         N/A         7/3/2006         PUQ         8/2/2/2006           LMG06-07         Open Period         N/A         8/6/2006         PAL         8/6/2/2006           LMG06-08         Palmer Station Shuttle Antarctic Data Repository for LMG06-08         N/A         8/6/2006         PUQ         8/6/2/2006           LMG06-10         Palmer Station Shuttle Antarctic Data Repository for LMG06-08         N/A         8/116/2006         PUQ         8/10/2006           LMG06-10         Palmer Station Opening         N/A         8/116/2006         PUQ         9/0/2006           LMG06-111         Open Period         N/A         10/16/2006         PUQ	VIG06-03A		N/A				PAL
Antarctic Data Repository for LMG06-04         Num         5/3/2006         PAL         5/7/2006           LMG06-05         Relevance of planktonic larval despersal to endemism and biogeography of antarcic benthic invertebrates Antarctic Data Repository for LMG06-05         Kenneth Halanych B-281-L         5/1/2006         PAL         6/8/2006           LMG06-06         Palmer Station Shuttle Day trip to Vernadsky Station         N/A         6/19/2006         PAL         6/22/2006           LMG06-07         Open Period         N/A         7/3/2006         PAL         6/26/2006           LMG06-08         Palmer Station Shuttle         N/A         7/3/2006         PAL         6/26/2006           LMG06-07         Open Period         N/A         7/3/2006         PUQ         8/10/2006           LMG06-08         Palmer Station Shuttle         N/A         8/6/2006         PUQ         8/10/2006           LMG06-10         Open Period         N/A         8/6/2006         PUQ         8/10/2006           LMG06-10         Palmer Station Opening         N/A         8/16/2006         PUQ         9/20/2006           LMG06-11         COPA Opening         N/A         10/16/2006         PUQ         9/20/2006           LMG06-11         Open Period         N/A         10/22/2006 <td< td=""><td>MG06-04</td><td></td><td>N/A</td><td></td><td></td><td></td><td>PAL</td></td<>	MG06-04		N/A				PAL
biogeography of antarctic benthic invertebrates Antarctic Data Repository for LMG06-05         B-281-L         5/21/2006         PAL         6/8/2006           LMG06-06         Palmer Station Shuttle Day trip to Vernadsky Station         N/A         6/19/2006         PAL         6/24/2006           LMG06-07         Open Period         N/A         6/25/2006         PAL         6/26/2006           LMG06-07         Open Period         N/A         7/3/2006         PUQ         8/10/2006           LMG06-08         Palmer Station Shuttle Antarctic Data Repository for LMG06-08         N/A         8/6/2006         PUQ         8/10/2006           LMG06-09         Open Period         N/A         8/18/2006         PUQ         8/10/2006           LMG06-10         Palmer Station Opening         N/A         8/18/2006         PUQ         9/10/2006           LMG06-11         COPA Opening         N/A         8/18/2006         PUQ         9/20/2006           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites         N/A         10/28/2006         PUQ         10/12/2006           LMG06-12         NSF Operations         N/A         10/28/2006         PUQ         11/13/2006           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites							PUQ
Antarctic Data Repository for LMG06-05         6/9/2006         PAL         6/14/2006           LMG06-06         Pairer Station Shuttle         N/A         6/19/2006         PAL         6/2/2/2006           Day trip to Vernadsky Station         6/2/5/2006         PAL         6/2/5/2006         PAL         6/2/5/2006           LMG06-07         Open Period         N/A         7/3/2006         PAL         7/2/2006           LMG06-08         Palmer Station Shuttle         N/A         7/3/2006         PUQ         8/6/2006           LMG06-09         Open Period         N/A         8/6/2006         PUQ         8/10/2006           LMG06-00         Open Period         N/A         8/6/2006         PUQ         8/10/2006           LMG06-10         Palmer Station Opening         N/A         8/18/2006         PUQ         8/10/2006           LMG06-11         COPA Opening         N/A         8/15/2006         PUQ         10/9/2006           LMG06-114         Open Period         N/A         10/5/2006         PUQ         10/9/2006           LMG06-112         COPA Opening         N/A         10/5/2006         PUQ         10/12/206           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor         Ronaid Navee			Kenneth Halanych		PUQ	5/20/2006	PAL
LMG06-06         Palmer Station Shuttle Day trip to Vernadsky Station         N/A         6/19/2006 (6/25/2006         PUQ PAL         6/24/2006 (6/25/2006           LMG06-07         Open Period         N/A         7/3/2006         PUQ         8/6/2006           LMG06-08         Palmer Station Shuttle Antarctic Data Repository for LMG06-08         N/A         8/6/2006         PUQ         8/6/2006           LMG06-09         Open Period         N/A         8/12/2006         PUQ         8/10/2006           LMG06-10         Palmer Station Opening         N/A         8/18/2006         PUQ         8/10/2006           LMG06-11         COPA Opening         N/A         8/18/2006         PUQ         9/10/2006           LMG06-11         COPA Opening         N/A         9/15/2006         PUQ         9/30/2006           LMG06-11         Open Period         N/A         10/10/2006         COPA         10/11/2006           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites         Ronald Naveen         10/28/2006         PUQ         11/1/22006           LMG06-12         NSF Operations         N/A         11/12/2006         PUQ         11/11/2006           LMG06-12         NSF Operations         N/A         11/12/2006         11/11/2/200			B-281-L		PAL		PAL
Day trip to Vernadsky Station         6/25/2006         PAL         6/25/2006           LMG06-07         Open Period         N/A         7/3/2006         PUQ         8/10/2006           LMG06-08         Palmer Station Shuttle Antarctic Data Repository for LMG06-08         N/A         8/18/2006         PUQ         8/10/2006           LMG06-10         Pelmer Station Opening         N/A         8/18/2006         PUQ         8/10/2006           LMG06-11         COPA Opening         N/A         8/18/2006         PUQ         9/10/2006           LMG06-11         COPA Opening         N/A         9/15/2006         PUQ         9/20/2006           LMG06-114         Open Period         N/A         10/5/2006         PUQ         9/20/2006           LMG06-114         Open Period         N/A         10/5/2006         PUQ         10/12/2006           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor         Ronald Naveen         10/28/2006         PUQ         10/12/2006           LMG06-12         NSF Operations         N/A         11/1/2006         PUQ         11/1/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUQ         11/1/2/2006           LMG06-12         NSF Operations </td <td></td> <td></td> <td></td> <td>6/9/2006</td> <td>PAL</td> <td>6/14/2006</td> <td>PUQ</td>				6/9/2006	PAL	6/14/2006	PUQ
LMG06-07         Open Period         N/A         7/3/2006         PAL         7/2/2006           LMG06-08         Palmer Station Shuttle         N/A         7/3/2006         PUQ         8/10/2006           Antarctic Data Repository for LMG06-08         N/A         8/6/2006         PUQ         8/10/2006           LMG06-09         Open Period         N/A         8/18/2006         PUQ         9/10/2006           LMG06-10         Palmer Station Opening         N/A         8/18/2006         PUQ         9/10/2006           LMG06-11         COPA Opening         N/A         8/18/2006         PUQ         9/30/2006           LMG06-11         COPA Opening         N/A         10/5/2006         PUQ         10/9/2006           LMG06-11         Open Period         N/A         10/5/2006         PUQ         10/12/2006           LMG06-114         Open Period         N/A         10/28/2006         PUQ         10/28/2006           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor         Ronald Naveen         10/28/2006         PUQ         11/1/2006           LMG06-12         NSF Operations         N/A         11/1/2006         PAL         11/1/2006           LMG06-12         NSF Operations         N/A			N/A				PAL
Image: mark text         Image: mark text<		Day trip to Vernadsky Station					VRN
LMG06-07         Open Period         N/A         7/3/2006         PUQ         8/6/2006           LMG06-08         Palmer Station Shuttle         N/A         8/6/2006         PUQ         8/10/2006           Antarctic Data Repository for LMG06-08         N/A         8/11/2006         PUQ         9/11/2006           LMG06-09         Open Period         N/A         8/18/2006         PUQ         9/10/2006           LMG06-10         Palmer Station Opening         N/A         8/18/2006         PUQ         9/20/2006           LMG06-11         COPA Opening         N/A         10/5/2006         PUQ         10/9/2006           LMG06-11         COPA Opening         N/A         10/5/2006         PUQ         10/9/2006           LMG06-114         Open Period         N/A         10/12/2006         PUQ         10/2/2006           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor         Ronald Naveen         10/28/2006         PUQ         11/1/2006           Sites         Sites         PAL         11/4/2006         COPA         11/1/2/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PAL         11/1/2/2006           LMG06-12         NSF Operations         N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PAL</td>							PAL
LMG06-08         Palmer Station Shuttle Antarctic Data Repository for LMG06-08         N/A         8/6/2006         PUQ         8/10/2006           LMG06-09         Open Period         N/A         8/18/2006         PUQ         9/10/2006           LMG06-10         Palmer Station Opening         N/A         8/18/2006         PUQ         9/20/2006           LMG06-11         COPA Opening         N/A         9/15/2006         PUQ         9/30/2006           LMG06-11         COPA Opening         N/A         10/5/2006         PUQ         10/12/2006           LMG06-11         COPA Opening         N/A         10/10/2006         COPA         10/11/2006           LMG06-112         Open Period         N/A         10/20/2006         PUQ         10/25/2006           LMG06-118         Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites         Ronald Naveen         10/28/2006         PUQ         11/1/2006           Antarctic Data Repository for LMG06-11B         N/A         11/1/2006         COPA         11/1/2/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUQ         11/1/1/2/2006           LMG06-12         MSF Operations         N/A         11/12/2/2006         PUQ         11/1/1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	11000 07						PUQ
Antarctic Data Repository for LMG06-08         NIA         8/11/2006         PAL         8/16/2006           LMG06-09         Open Period         N/A         8/18/2006         PUQ         9/10/2006         9/20/2006           LMG06-10         Palmer Station Opening         N/A         9/15/2006         PUQ         9/20/2006         9/25/2006         PAL         8/10/2006         9/20/2006         9/25/2006         PAL         9/30/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/11/2006         10/12/2006         10/12/2006         10/12/2006         10/12/2006         10/12/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006         11/11/11/2006		•					PUQ
LMG06-09         Open Period         N/A         8/18/2006         PUQ         9/10/2006           LMG06-10         Palmer Station Opening         N/A         9/15/2006         PUQ         9/20/2006           LMG06-11         COPA Opening         N/A         10/5/2006         PUQ         10/9/2006           LMG06-11         COPA Opening         N/A         10/10/2006         COPA         10/11/2006           LMG06-11A         Open Period         N/A         10/12/2006         PUQ         10/12/2006           LMG06-11B         Long-Term Data Collection at Select Antarctic Peninsula Visitor         Ronald Naveen         10/28/2006         PUQ         11/12/2006           Sites         Antarctic Data Repository for LMG06-11B         N/A         11/12/2006         PMN         11/4/2006           LMG06-12         NSF Operations         N/A         11/12/2006         PMN         11/18/2006           LMG06-12         NSF Operations         N/A         11/12/2006         PMN         11/11/2006           LMG06-12         NSF Operations         N/A         11/12/2006         PMN         11/11/2/2006           LMG06-12         NSF Operations         N/A         11/12/2006         PMN         11/11/2/2006           11/20/2006	.MG06-08		N/A				PAL
LMG06-10         Palmer Station Opening         N/A         9/15/2006         PUQ         9/20/2006           LMG06-11         COPA Opening         V/A         10/5/2006         PUQ         10/9/2006           LMG06-11         COPA Opening         N/A         10/5/2006         PUQ         10/9/2006           LMG06-11A         Open Period         N/A         10/10/2006         COPA         10/11/2006           LMG06-11B         Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites         N/A         10/28/2006         PUQ         11/12/2006           Antarctic Data Repository for LMG06-11B         B-086-L         11/1/1/2006         COPA         11/4/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUQ         11/1/2/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUQ         11/1/1/2/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUQ         11/1/1/2/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUQ         11/1/1/2/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUN         11/1/1/2/2006           LMG06-12         <			N/A				PUQ
Image: Normal and the second							PUQ
LMG06-11         COPA Opening         N/A         10/5/2006         PUQ         10/9/2006           LMG06-11         Open Period         N/A         10/10/2006         COPA         10/11/2006           LMG06-11A         Open Period         N/A         10/20/2006         PUQ         10/25/2006           LMG06-11B         Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites         Ronald Naveen         10/28/2006         PUQ         11/1/2006           Antarctic Data Repository for LMG06-11B         N/A         11/1/2006         COPA         11/3/2006           LMG06-12         NSF Operations         N/A         11/1/2/006         PUQ         11/1/2/2006           LMG06-12         IMSF Operations         N/A         11/12/2006         PUQ         11/1/2/2006           LMG06-12         IMSF Operations         N/A         11/12/2006         PUQ         11/16/2006           11/1/2/2006         PUQ         11/16/2006         PUQ         11/16/2006         11/11/10/2006           11/12/2006         PUQ         11/19/2006         11/12/2006         11/12/2006         11/12/2006	.101-00-10	rainer station Opening	N/A				PAL
Image: Instruction         Image:	MC06 11		N/A				PUQ
Image: mark mark mark mark mark mark mark mark	.11-00011		N/A				COPA
LMG06-11A         Open Period         N/A         10/20/2006         PUQ         10/25/2006           LMG06-11B         Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites         Ronald Naveen         10/28/2006         PUQ         11/1/2006           Antarctic Data Repository for LMG06-11B         B-086-L         11/3/2006         PAL         11/3/2006           LMG06-12         NSF Operations         N/A         11/12/2006         PUQ         11/16/2006           LMG06-12         NSF Operations         N/A         11/12/2006         PUQ         11/16/2006           11/12/2006         PUQ         11/18/2006         11/11/2006         PUQ         11/16/2006           11/12/2006         PUQ         11/16/2006         PUQ         11/16/2006         11/16/2006           11/12/2006         PUQ         11/17/2006         PUQ         11/17/2006         11/17/2006           11/12/2006         PUQ         11/11/17/2006         PUQ         11/16/2006         11/12/2006         11/12/2006           11/20/2006         ROT         11/23/2006         11/24/2006         11/24/2006         11/25/2006							PAL
LMG06-11B         Long-Term Data Collection at Select Antarctic Peninsula Visitor         Ronald Naveen         10/28/2006         PUQ         11/1/2006           Sites         Sites         11/1/2006         CS         11/2/2006         11/3/2006         PAL         11/3/2006           Antarctic Data Repository for LMG06-11B         Antarctic Data Repository for LMG06-11B         N/A         11/1/2/2006         COPA         11/8/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PUQ         11/17/2006           11/1/2/2006         COPA         11/8/2006         11/1/2/2006         11/1/1/2/2006         11/1/1/2/2006           LMG06-12         NSF Operations         N/A         11/1/2/2006         PAL         11/1/1/2/2006           11/1/2/2006         OHG         11/2/2/2006         11/2/2/2006         11/2/2/2006         11/2/2/2006	MG06-11A	Open Beriod	N/A				PUQ PUQ
Sites       B-086-L       11/1/2006       CS       11/2/2006         11/3/2006       PAL       11/3/2006       PAL       11/3/2006         Antarctic Data Repository for LMG06-11B       11/4/2006       COPA       11/8/2006         LMG06-12       NSF Operations       N/A       11/1/2/2006       PUQ       11/1/2/2006         LMG06-12       NSF Operations       N/A       11/1/2/2006       PAL       11/1/2/2006         11/1/2/2006       PHUQ       11/1/2/2006       PHUQ       11/1/2/2006       11/1/2/2006         11/1/2/2006       PHUQ       11/1/2/2006       PHUQ       11/1/2/2006       11/1/2/2006         11/1/2/2006       PHUQ       11/2/2/2006       PHUQ       11/1/2/2006       11/2/2/2006         11/1/2/2006       PHUQ       11/2/2/2006       PHUQ       11/2/2/2006       11/2/2/2006         11/1/2/2007       PHUQ       11/2/2/2006       PHUQ       11/2/2/2006       11/2/2/2006         11/1/2/2006       PHUQ       11/2/2/2006       PHUQ       11/2/2/2006       11/2/2/2006         11/1/2/2/2006       PHUQ       11/2/2/2006       PHUQ       11/2/2/2006       11/2/2/2006							CS
Antarctic Data Repository for LMG06-11B       N/A       11/3/2006       PAL       11/3/2006         LMG06-12       NSF Operations       N/A       11/1/2/2006       PUQ       11/1/2/2006         11/1/2/2006       PUQ       11/1/2/2006       11/1/2/2006       11/1/2/2006         LMG06-12       NSF Operations       N/A       11/1/2/2006       PAL       11/1/2/2006         11/1/2/2006       POUQ       11/1/2/2006       11/1/2/2006       11/1/2/2006       11/1/2/2006         11/2/2/2006       ROT       11/2/2/2006       11/2/2/2006       11/2/2/2006       11/2/2/2006							PAL
Antarctic Data Repository for LMG06-11B       11/3/2006       PMN       11/4/2006         LMG06-12       NSF Operations       N/A       11/12/2006       PUQ       11/16/2006         LMG06-12       NSF Operations       N/A       11/12/2006       PAL       11/17/2006         LMG06-12       NSF Operations       N/A       11/12/2006       PAL       11/17/2006         LMG06-12       III/IIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			D-000-L				PAL PMN
Antarctic Data Repository for LMG06-11B         11/4/2006         COPA         11/8/2006           LMG06-12         NSF Operations         N/A         11/12/2006         PUQ         11/16/2006           11/16/2006         PAL         11/17/2006         I1/17/2006         I1/17/2006         I1/19/2006           11/12/2006         ROT         11/23/2006         I1/24/2006         I1/24/2006         I1/24/2006           11/12/2006         ESP         11/25/2006         I1/25/2006         I1/25/2006         I1/25/2006							COPA
LMG06-12         NSF Operations         N/A         11/12/2006         PUQ         11/16/2006           11/16/2006         PAL         11/17/2006         PMN         11/19/2006           11/12/2006         ROT         11/23/2006         11/23/2006         11/24/2006           11/24/2006         ESP         11/25/2006         11/25/2006		Antarctic Data Repository for LMG06-11B					PUQ
11/16/2006PAL11/17/200611/17/2006PMN11/19/200611/20/2006ROT11/23/200611/23/2006OHG11/24/200611/24/2006ESP11/25/2006			N/A				POQ
11/17/2006PMN11/19/200611/20/2006ROT11/23/200611/23/2006OHG11/24/200611/24/2006ESP11/25/2006							
11/20/2006ROT11/23/200611/23/2006OHG11/24/200611/24/2006ESP11/25/2006							PMN POT
11/23/2006OHG11/24/200611/24/2006ESP11/25/2006							ROT
11/24/2006 ESP 11/25/2006							OHG ESP
11/26/2006 DEC 11/27/2006							DEC
Antarctic Data Repository for LMG06-12 11/27/2006 KGI 12/1/2006		Astronomic Date Date strengt - 1 MODD 10					KGI PUQ

	CRUISE by NAME	Pls	Departure	PORT	Arrival	POR
LMG06-13	Palmer Station Shuttle	N/A	12/6/2006	PUQ	12/9/2006	PAL
			12/10/2006	PAL	12/14/2006	PUQ
LMG06-14	Palmer Station Shuttle	N/A	12/18/2006	PUQ	12/22/2006	PAL
	Antarctic Data Repository for LMG06-14		12/23/2006	PAL	12/27/2006	PAL
LMG07-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Bill Fraser	1/1/2007	PUQ	1/5/2007	PAL
	An Ice-Dominated Environment (LTER)	B-013-L/P	1/7/2007	PAL	2/6/2007	PAL
	http://www.icess.ucsb.edu	Maria Vernet	2/7/2007	PAL	2/11/2007	PUQ
		B-016-L/P	_,			
		Doug Martinson				
		B-012-L				
		Robin Ross				
		B-028-L/P				
		Ray Smith				
		B-032-L/P				
		Hugh Ducklow B-045-L/P				
1 1007 00	Determore laland nick un	D-045-L/P N/A	0/40/0007	DUO	0/00/0007	
LMG07-02	Peterman Island pick-up	N/A	2/16/2007	PUQ	2/20/2007	COP
	Close Cape Shirreff		2/20/2007	COPA	2/21/2007	PAL
	Close COPA		2/22/2007	PAL	2/22/2007	PMN
			2/22/2007	PMN	2/24/2007	CS
			2/24/2007	CS	2/26/2007	COP
			2/26/2007	COPA	3/1/2007	PUQ
LMG07-03	Palmer Station Shuttle	N/A	3/8/2007	PUQ	3/12/2007	PAL
			3/15/2007	PAL	3/19/2007	PUQ
LMG07-04	Palmer Station Turnover	Robert Blanchette	3/23/2007	PUQ	3/28/2007	PAL
		B-038-E	4/2/2007	PAL	4/6/2007	PUQ
LMG07-05	Differential Expression of Oxygen-Binding Proteins in Antarctic	Bruce Sidell	4/11/2007	PUQ	4/15/2007	PAL
	Fishes Affecting Nitric Oxide-Mediated Pathways of Angiogenesis	B-036-L	4/17/2007	PAL	4/20/2007	PAL
	and Mitochondrial Biogenesis.		4/20/2007	PAL	4/28/2007	PAL
	Habitat Utilization of Southern Ocean Seals: Foraging Behavior of	Dan Costa	4/30/2007	PAL	5/3/2007	PAL
	Crabeater and Elephant Seals Using Novel Methods of	B-232-L	5/5/2007	PAL	5/8/2007	PUQ
	Oceanographic Data Collection		0,0,2001		0,0,2001	
LMG07-06	Differential Expression of Oxygen-Binding Proteins in Antarctic	Bruce Sidell	5/12/2007	PUQ	5/16/2007	PAL
	Fishes Affecting Nitric Oxide-Mediated Pathways of Angiogenesis	B-036-L	5/17/2007	PAL	5/27/2007	VRN
	and Mitochondrial Biogenesis.	D-030-L	5/27/2007	VRN	5/27/2007	PAL
	5	Dan Costa	5/30/2007	PAL	6/3/2007	PUQ
	Habitat Utilization of Southern Ocean Seals: Foraging Behavior of	B-232-L	5/30/2007	FAL	0/3/2007	FUG
	Crabeater and Elephant Seals Using Novel Methods of	B-232-L			1 1	
	Oceanographic Data Collection <u>Antarctic Data Repository for LMG07-06</u>					
			0/7/0007	<b>D</b> U 0	0/11/00001	
LMG07-07	Hazardous waste shuttle	N/A	6/7/2007	PUQ	6/11/2001	PAL
	Antarctic Data Repository for LMG07-07					
LMG07-08	Northbound hazardous waste run	N/A	6/18/2007	PAL	6/23/2007	PUQ
			6/25/2007	PUQ		PAN
				PAN	7/19/2007	FCH
		MG07-09 was not used			1	
	Drydock	N/A	7/19/2007	FCH	8/11/2007	FCH
		N/A	8/11/2007			
	Southbound Transit to Punta Arenas, Chile		8/11/2007	FCH	9/6/2007	
	Palmer Station Opening	N/A	9/13/2007	PUQ	9/17/2007	PAL
LMG07-12	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u>		9/13/2007 9/24/2007	PUQ PAL	9/17/2007 9/29/2007	PAL PUC
LMG07-12	Palmer Station Opening	N/A N/A	9/13/2007 9/24/2007 10/8/2007	PUQ PAL PUQ	9/17/2007 9/29/2007 10/12/2007	PAL PUG COP
LMG07-12	Palmer Station Opening Antarctic Data Repository for LMG07-12 COPA Opening		9/13/2007 9/24/2007 10/8/2007 10/13/2007	PUQ PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007	PAL PUC COP PAL
LMG07-12 LMG07-13	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u>	N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007	PUQ PAL PUQ	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007	PAL PUC COP PAL
LMG07-12 LMG07-13 LMG07-14	Palmer Station Opening Antarctic Data Repository for LMG07-12 COPA Opening	N/A N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007	PUQ PAL PUQ COPA	9/17/2007 9/29/2007 10/12/2007 10/14/2007	PAL PUC COP PAL PUC
LMG07-12 LMG07-13 LMG07-14	Palmer Station Opening Antarctic Data Repository for LMG07-12 COPA Opening Antarctic Data Repository for LMG07-13	N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007	PUQ PAL PUQ COPA PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007	PAL PUC COP PAL PUC PUC
LMG07-12 LMG07-13 LMG07-14	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening	N/A N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007	PUQ PAL PUQ COPA PAL PUQ PUQ	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007	PAL PUC COP, PAL PUC PUC CS
LMG07-12 LMG07-13 LMG07-14	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period	N/A N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007	PUQ PAL PUQ COPA PAL PUQ PUQ CS	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007	PAL PUC COP, PAL PUC PUC CS PAL
LMG07-12 LMG07-13 LMG07-14	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening	N/A N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007	PUQ PAL PUQ COPA PAL PUQ PUQ CS PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007	PAL PUC COP, PAL PUC PUC CS PAL PMN
LMG07-12 LMG07-13 LMG07-14	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In	N/A N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007 11/9/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007	PAL PUC COP, PAL PUC CS PAL PMN PAL
LMG07-12 LMG07-13 LMG07-14	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u>	N/A N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007	PUQ PAL PUQ COPA PAL PUQ PUQ CS PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007	PAL PUQ COP/ PAL PUQ CS PAL PMN PAL
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LM	N/A N/A N/A	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007 11/9/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007	PAL PUG COP/ PAL PUG CS PAL PMN PAL PUG
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LI Vertebrate Paleontology of Livingston Island, South Shetlands,	N/A N/A N/A MG07-16 was not used	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007 11/9/2007 11/12/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PAL PAL	9/17/2007 9/29/2007 10/12/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/10/2007 11/16/2007	PAL PUG COP/ PAL PUG CS PAL PMN PAL PUG LIV
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> <u>Note: cruise number LM</u> Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007 11/9/2007 11/12/2007 12/2/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL PUQ LIV	9/17/2007 9/29/2007 10/12/2007 10/20/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/10/2007 11/16/2007 12/2/2007	PAL PUG COP, PAL PUG CS PAL PUG PUG LIV VRN
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> <u>Note: cruise number LN</u> Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007 11/9/2007 11/12/2007 12/2/2007 12/2/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL PUQ LIV VRN	9/17/2007 9/29/2007 10/12/2007 10/20/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/10/2007 11/16/2007 12/2/2007 12/3/2007	PAL PUG COP/ PAL PUG CS PAL PUG UG LIV VRN PAL
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number Lt Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice-	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007 11/9/2007 11/12/2007 12/2/2007 12/2/2007 12/2/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL PUQ LIV VRN PAL	9/17/2007 9/29/2007 10/12/2007 10/20/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/10/2007 11/16/2007 12/2/2007 12/2/2007 12/3/2007 12/8/2007	PAL PUG COP/ PAL PUG CS PAL PUG UG LIV VRN PAL LIV VRN PAL LIV
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> <u>Note: cruise number LN</u> Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 10/25/2007 11/4/2007 11/7/2007 11/8/2007 11/9/2007 11/2/2007 12/2/2007 12/2/2007 12/4/2007 12/10/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV	9/17/2007 9/29/2007 10/12/2007 10/20/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/10/2007 11/16/2007 12/2/2007 12/2/2007 12/3/2007 12/8/2007 12/11/2007	PAL PUG COP/ PAL PUG CS PAL PUG UG LIV VRN PAL LIV VRN PAL LIV SEY
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LN Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/4/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PUQ CS PAL PUQ LIV VRN PAL LIV VRN PAL LIV SEY	9/17/2007 9/29/2007 10/12/2007 10/20/2007 10/20/2007 10/31/2007 11/3/2007 11/8/2007 11/9/2007 11/10/2007 11/16/2007 12/2/2007 12/3/2007 12/3/2007 12/11/2007 12/16/2007	PAL PUG COP/ PAL PUG CS PAL PUG PUG UG LIV VRN PAL LIV VRN PAL LIV SEY
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LN Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u>	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV SEY ESP	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/1/2007 12/11/2007 12/11/2007 12/12007 12/12007	PAL PUG COP, PAL PUG CS PAL PMN PAL PUG UV VRN PAL LIV VRN PAL LIV SEY PUG
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LN Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem:	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E Bill Fraser	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007 12/16/2007 12/30/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV VRN PAL LIV SEY ESP PUQ	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/11/2007 12/11/2007 12/12/2007 12/12/2007 12/12/2007	PAL PUG COP, PAL PUG CS PAL PML PAL UV VRN PAL LIV VRN PAL LIV SESP PUG PAL
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LI Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E Bill Fraser B-013-L/P	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007 12/16/2007 12/30/2007 1/5/2008	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV VRN PAL LIV SEY ESP PUQ PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/11/2007 12/11/2007 12/11/2007 12/12/2007 12/21/2007	PAL PMN PAL PUQ LIV VRN PAL LIV SEY PUQ PAL PAL
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LN Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem:	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E Bill Fraser B-013-L/P Maria Vernet	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007 12/16/2007 12/30/2007	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV VRN PAL LIV SEY ESP PUQ	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/11/2007 12/11/2007 12/12/2007 12/12/2007 12/12/2007	PAL PUG COP, PAL PUG CS PAL PML PAL UV VRN PAL LIV VRN PAL LIV SESP PUG PAL
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LI Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E Bill Fraser B-013-L/P	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007 12/16/2007 12/30/2007 1/5/2008	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV VRN PAL LIV SEY ESP PUQ PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/11/2007 12/11/2007 12/11/2007 12/12/2007 12/21/2007	PAL PUG COP, PAL PUG CS PAL PML PAL PUG UV VRN PAL LIV SESP PUG PAL PAL
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LI Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E Bill Fraser B-013-L/P Maria Vernet B-016-L/P Doug Martinson	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007 12/16/2007 12/30/2007 1/5/2008	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV VRN PAL LIV SEY ESP PUQ PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/11/2007 12/11/2007 12/11/2007 12/12/2007 12/21/2007	PAL PUG COP, PAL PUG CS PAL PML PAL PUG UV VRN PAL LIV SESP PUG PAL PAL
LMG07-11 LMG07-12 LMG07-13 LMG07-14 LMG07-15 LMG07-17	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LI Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E Bill Fraser B-013-L/P Maria Vernet B-016-L/P	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007 12/16/2007 12/30/2007 1/5/2008	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV VRN PAL LIV SEY ESP PUQ PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/11/2007 12/11/2007 12/11/2007 12/12/2007 12/21/2007	PAL PUG COP, PAL PUG CS PAL PML PAL PUG UV VRN PAL LIV SESP PUG PAL PAL
LMG07-12 LMG07-13 LMG07-14 LMG07-15	Palmer Station Opening <u>Antarctic Data Repository for LMG07-12</u> COPA Opening <u>Antarctic Data Repository for LMG07-13</u> Open Period Cape Shireff Opening Petermann Island Camp Put-In <u>Antarctic Data Repository for LMG07-15</u> Note: cruise number LI Vertebrate Paleontology of Livingston Island, South Shetlands, Antarctica Collaborative Research: Testing the Polar Gateway Glaciation Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice- Volume Record of Drake Passage Opening <u>Antarctic Data Repository for LMG07-17</u> Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	N/A N/A N/A N/A MG07-16 was not used Ross MacPhee G-170-E David Barbeau G-432-E Bill Fraser B-013-L/P Maria Vernet B-016-L/P Doug Martinson	9/13/2007 9/24/2007 10/8/2007 10/13/2007 10/15/2007 11/25/2007 11/7/2007 11/8/2007 11/8/2007 11/9/2007 12/2/2007 12/2/2007 12/2/2007 12/10/2007 12/16/2007 12/16/2007 12/30/2007 1/5/2008	PUQ PAL PUQ COPA PAL PUQ CS PAL PMN PAL LIV VRN PAL LIV VRN PAL LIV SEY ESP PUQ PAL	9/17/2007 9/29/2007 10/12/2007 10/14/2007 10/20/2007 10/31/2007 11/7/2007 11/8/2007 11/9/2007 11/16/2007 12/2/2007 12/3/2007 12/11/2007 12/11/2007 12/11/2007 12/12/2007 12/21/2007	PAL PUG COP, PAL PUG CS PAL PML PAL PUG UV VRN PAL LIV SESP PUG PAL PAL

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
		B-028-L/P				
		Hugh Ducklow				I
	Antarctic Data Repository for LMG08-01	B-045-L/P	0/4 //0000	БЦО	0/40/0000	
LMG08-02	Collaborative Research: Benthic faunal feeding dynamics on the	David DeMaster	2/14/2008	PUQ	2/19/2008	PAL
	Antarctic Shelf and the effects of global climate change on betho-	B-237-L	2/20/2008	PAL	3/12/2008	PAL PUQ
	pelagic coupling Antarctic Data Repository for LMG08-02	Craig Smith	3/13/2008	PAL	3/17/2008	PUQ
LMG08-03	Palmer Station Turnover	B-212-L N/A	3/22/2008	PUQ	3/26/2008	PAL
LIVIG00-03	Antarctic Data Repository for LMG08-03	N/A	3/31/2008	PAL	4/4/2008	PUQ
LMG08-04	Collaborative Research: Testing the impact of seasonality on	Scott Ishman	4/8/2008	PUQ	4/17/2008	PAL
EWIC00-04	benthic formanifers as paleoenvironmental proxies.	G-183-L	4/19/2008	PAL	4/23/2008	PUQ
	Antarctic Data Repository for LMG08-04	0-100-L			1/20/2000	
		MG08-05 was not used				
LMG08-06	Protein folding and function at cold temperature: Co-evolution of the		4/27/2008	PUQ	5/2/2008	PAL
	chaperonin CCT and tubulins from antarctic fishes	B-037-L	5/4/2008	PAL	5/6/2008	PAL
			5/9/2008	PAL	5/12/2008	PAL
			5/13/2008	PAL	5/17/2008	PAL
			5/17/2008	PAL	5/19/2008	PAL
			5/21/2008	PAL	5/25/2008	PUQ
LMG08-07	Protein folding and function at cold temperature: Co-evolution of the	Bill Detrich	5/28/2008	PUQ	6/2/2008	PAL
	chaperonin CCT and tubulins from antarctic fishes	B-037-L	6/3/2008	PAL	6/6/2008	PAL
			6/7/2008	PAL	6/9/2008	PAL
	Antarctic Data Repository for LMG08-07		6/15/2008	PAL	6/19/2008	PUQ
LMG08-08	Collaborative Research: Testing the impact of seasonality on	Scott Ishman	6/24/2008	PUQ	7/2/2008	PAL
	benthic formanifers as paleoenvironmental proxies. Antarctic Data Repository for LMG08-08	G-183-L	7/4/2008	PAL	7/8/2008	PUQ
LMG08-09	Environmental, organismal and evolutionary physiology of freeze	Art Devries	7/13/2008	PUQ	7/18/2008	PAL
	avoidance in antarctic Notothenoid fishes	B-005-L	7/22/2008	PAL	7/24/2008	PAL
			7/26/2008	PAL	7/28/2008	PAL
			7/30/2008	PAL	8/4/2008	PAL
	Antarctic Data Repository for LMG08-09		8/5/2008	PAL	8/9/2008	PUQ
LMG08-10	Environmental, organismal and evolutionary physiology of freeze	Art Devries	8/13/2008	PUQ	8/18/2008	PAL
	avoidance in antarctic Notothenoid fishes	B-005-L	8/19/2008	PAL	8/25/2008	PAL
			8/26/2008	PAL	8/27/2008	KGI
			8/28/2008	KGI	8/29/2008	PAL
			8/30/2008	PAL	9/3/2008	PAL
	Antarctic Data Repository for LMG08-10		9/5/2008	PAL	9/10/2008	PUQ
LMG08-11	Palmer Station Opening	N/A	9/14/2008	PUQ	9/18/2008	PAL
			9/24/2008	PAL	9/28/2008	PUQ
LMG08-12	COPA/Cape Shirreff Opening	N/A	10/15/2008	PUQ	10/19/2008	COPA
			10/19/2008	COPA	10/22/2008	PAL
			10/23/2008	PAL	10/24/2008	CS
LMC00 40	Onen Deried	N//A	10/24/2008	CS	10/27/2008	PUQ
LMG08-13	Open Period	N/A	10/28/2008	PUQ	11/30/2008	PUQ
LMG08-14	NSF Job Walk	N/A	12/1/2008	PUQ PUQ	12/29/2008	PUQ
LMG09-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Doug Martinson B-241-L	12/30/2008 1/6/2009		1/4/2009 2/1/2009	PAL
	An Ice-Dominated Environment (LTER)			PAL		PAL
		Hugh Ducklow B-045-L	2/2/2009	PAL	2/6/2009	PUQ
		Deborah Steinberg				1
		B-020-L				1
		Oscar Schofield				1
		B-019-L				I
		Bill Fraser				I
		B-013-L				I
				1	1	
		Michael Bender				

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CRUISE # LMG09-02	CRUISE by NAME Collaborative Research: Benthic faunal feeding dynamics on the	PIs David DeMaster	Departure 2/11/2009	PORT PUQ	Arrival 2/15/2009	PORT LIV
LIVIG03-02	Antarctic Shelf and the effects of global climate change on betho-	B-237-L	2/11/2009	LIV	2/16/2009	JRI
	pelagic coupling	Craig Smith	2/16/2009	JRI	2/18/2009	LIV
	pelagic coupling	B-212-L	2/18/2009	LIV	2/10/2009	PAL
	Search for late Mesozoic vertebrate fossils on Livingston Island	Ross MacPhee	2/20/2009	PAL	3/9/2009	PAL
	ocarch for late mesozoic vertebrate lossils on Elvingston island	G-170-E	3/10/2009	PAL	3/11/2009	JRI
	Causes of mass extinction during the late Cretaceous age in	Joseph Kirschvink	3/11/2009	JRI	3/12/2009	COC
	Antarctica.	G-436-E	3/12/2009	COC	3/13/2009	KGI
	Antarctic Data Repository for LMG09-02	G-430-L	3/13/2009	KGI	3/16/2009	PUQ
LMG09-03	Microbial diversity in historic woods, organic substrates and soil	Robert Blanchette	3/21/2009	PUQ	3/26/2009	DEC
		B-038-L/P	3/29/2009	DEC	3/30/2009	PAL
	Abrupt environmental change in the Larsen Ice Shelf system	Eugene Domack	3/31/2009	PAL	4/1/2009	VER
		C-515-L	4/2/2009	VER	4/4/2009	PAL
	Antarctic Data Repository for LMG09-03		4/5/2009	PAL	4/9/2009	PUQ
	Note: cruise number L	MG09-04 was not used				
LMG09-05	Collaborative Research: the ecological role of a poorly studied	Douglas Nowacek	4/21/2009	PUQ	4/25/2009	PAL
	Antarctic krill predator: the humpback whale.	B-249-L	4/26/2009	PAL	4/28/2009	PAL
	Linkages among mitochondrial form, function and thermal tolerance	Kristin O'Brien	4/29/2009	PAL	5/10/2009	PAL
	of Antarctic notothenioid fishes	B-036-L	5/11/2009	PAL	5/14/2009	PAL
			5/14/2009	PAL	5/23/2009	PAL
			5/24/2009	PAL	5/27/2009	PAL
			5/27/2009	PAL	6/5/2009	PAL
	Antarctic Data Repository for LMG09-05		6/7/2009	PAL	6/11/2009	PUQ
LMG09-06A	Hazardous waste shuttle	N/A	6/15/2009	PUQ	6/19/2009	PAL
			6/20/2009	PAL	6/21/2009	PAL
			6/26/2009	PAL	7/1/2009	PUQ
LMG09-07	Hazardous Waste Run / Dry dock	N/A	7/4/2009	PUQ	7/27/2009	FCH
LMG09-07A	Dry dock, Port Hueneme cargo loading	N/A	7/31/2009	FCH	8/15/2009	FCH
LMG09-08	Transit to Punta Arenas	N/A	8/16/2009	FCH	9/11/2009	PUQ
LMG09-09	Surface pCO2 and the effects of winter overturning in the Drake	Colm Sweeney	9/16/2009	PUQ	9/24/2009	PAL
	Passage	O-214-L	9/27/2009	PAL	9/28/2009	PAL
	Antarctic Data Repository for LMG09-09		10/1/2009	PAL	10/8/2009	PUQ
LMG09-10	COPA/Cape Shirreff Opening	N/A	10/14/2009	PUQ	10/20/2009	PAL
			10/22/2009	PAL	10/27/2009	PUQ
	Open Period	N/A	11/3/2009	PUQ	11/18/2009	PUQ
LMG09-11	Geoscience island field camps	David Barbeau	11/23/2009	PUQ	11/27/2009	PAL
		G-432-E	12/6/2009	JRI	12/9/2009	JRI
		Ross MacPhee	12/10/2009	LIV	12/10/2009	LIV
		G-170-E	12/11/2009	SNO	12/11/2009	SNO
		Joseph Kirschvink	12/12/2009	KGI	12/22/2009	PUQ
	Antarctic Data Repository for LMG09-11	G-436-E				
LMG-10-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem:		12/30/2009	PUQ	1/3/2010	PAL
	An Ice-Dominated Environment (LTER)	B-241-L	1/5/2010	PAL	2/2/2010	PAL
		Hugh Ducklow	2/3/2010	PAL	2/7/2010	PUQ
		B-045-L				
		Deborah Steinberg				
		B-020-L				
		Oscar Schofield				
		B-019-L Bill Fracer				
		Bill Fraser B-013-L				
		B-013-L Michael Bender				
	Antarctic Data Repository for LMG10-01	O-326-L				
LMG10-02	Palmer Station Logistics Support	0-326-L N/A	2/13/2010	PUQ	2/17/2010	PAL
LING 10-02	annor otation Eoglotioo Oupport	N/A	2/13/2010	PAL	2/17/2010	PAL
			2/20/2010	PAL	3/2/2010	PAL
			3/21/2010	PAL	3/25/2010	PUQ
LMG10-02A	RPSC/ECO Cooperative vessel equipment maintenance	N/A	3/26/2010	PUQ	4/9/2010	PUQ
LMG10-02A	Protein folding and function at cold temperature: Co-evolution of the		4/10/2010	PUQ	4/9/2010	PAL
2	chaperonin CCT and tubulins from antarctic fishes	Bill Detrich B-037-L	4/19/2010	PAL	4/21/2010	PAL
		(cruise 1 of 2)	4/22/2010	PAL	4/23/2010	PAL
	Antarctic Data Repository for LMG10-03		4/25/2010	PAL	4/29/2010	PUQ
LMG10-04	Protein folding and function at cold temperature: Co-evolution of the	Bill Detrich	5/4/2010	PUQ	5/8/2010	PAL
	chaperonin CCT and tubulins from antarctic fishes	B-037-L	5/10/2010	PAL	5/15/2010	PAL
		(cruise 2 of 2)	5/17/2010	PAL	5/22/2010	PAL
		, <del></del>	5/24/2010	PAL	5/30/2010	PAL
	Antarctic Data Repository for LMG10-04		6/4/2010	PAL	6/8/2010	PUQ
LMG10-05	Open Period, Puerto Natales, Chile	N/A	6/19/2010	PUQ	6/21/2010	PNT
			9/5/2010	PNT	9/6/2010	PUQ
LMG10-06	Ammonia Oxidation Versus Heterotrophy in Crenarchaeota	James Hollibaugh	9/13/2010	PUQ	9/19/2010	PAL
	Populations from Marine Environments West of the Antarctic	B-114-L	9/22/2010	PAL	9/24/2010	PAL
	Peninsula		9/26/2010	PAL	10/1/2010	PUQ
	Antarctic Data Repository for LMG10-06					
		s			1	

LMC1027         OPA Opening         NA         MA         Mod 201         PUID	CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG10-06         Cape Shrref Opening tax Wate Fickup         NA         103/2010 11/3/2010         PAL         11/3/2010 11/3/2010         PAL		COPA Opening	-				
LMG100H         Cape Shmet Queen         NA         103/2010 11/3/2010         PULL PAL         11/3/2010 PAL         PULL PAL         11/3/2010 PAL         SHF         11/3/2010 PAL         PULL PAL		Palmer Station Opening		10/10/2010	COP	10/12/2010	PAL
Har: Waste Pickup         Place         111/32010         SHE 111/32010         PAL         111/32010				10/16/2010	PAL	10/20/2010	PUQ
LMC01-00         Acuatic Assessment of Southon Ocean Sajas and Their Ecosystem impact Advantics LMA sessestement of Southon Ocean Sajas and Their Ecosystem impact Advantics LMA sessestement of Southon Ocean Sajas and Their Ecosystem impact Advantics LMA sessestement of Southon Ocean Sajas and Their Ecosystem impact Advantics LMA sessestement of Southon Ocean Sajas and Their Ecosystem impact Advantics LMA sessestement of Southon Ocean Sajas and Their Ecosystem impact Advantics LMA sessestement of Southon Ocean BodeL         Desp Martinison Data Data Data Data Data Data Data Dat	LMG10-08	Cape Shirreff Opening	N/A	10/31/2010	PUQ	11/3/2010	SHF
LMG10-10         Accessite Assessment of Southern Ocean Saips and Their Antifictic Usite Moontin's for LMG11013         Joseph Warren Ba393-L         J17250210 117202010         PAL PAL 117202010         117282010 PAL 127202010         PAL PAL 127202010         117282010 PAL 127202010         PAL PAL 127202010         117282010 PAL 127202010         PAL PAL 127202010         117282010 PAL 127202010         PAL PAL 127202010         117282010 PAL PAL         PAL 127202010         PAL PAL           LMG11-01         Log-Dominated Environment (LTER)         Bugh Murinson B 431-L Bit Fraser Ba13-L Janese         11722011         PAL PAL         PAL 127202011         PAL PAL           LMG11-02         Constraint Strainberg B 420-L Cocker Schoffeld Ba13-L Janese Murinseg         27142011         PAL 3772011         PAL 9210           LMG11-02         Constraint Strainberg B 420-L Cocker Schoffeld Ba13-L Janese Murinseg         27142011         PAL 3772011         PAL 3772011         PAL 3772011         PAL 3772011         PAL 47120211         27142011         PAL 47120211         27142011         PAL 47120211         PAL 47120211         27142011         PAL 47120211         27142011         PAL 47120211         27142011         PAL 47120211         27142011         PAL 47120211         27142011         PAL 47120211         27142011         27142011         27142011         27142011         27142011         27142011         27142011		Haz Waste Pickup					
Ecosystem impact Artistics Lata Headenbory for LMX(1):01         B 393-4.         11/30/2010         PAL         12/32/2010         PAL           LMG11-01         Long-Term Ecological Research on the Antaclic Marine Ecosystem An tee-Dominated Environment (LTER)         Dog Marrinson B 241 - High Ducklow         PV/2         PV/2         PV/2           LMG11-01         Long-Term Ecological Research on the Antaclic Marine Ecosystem B 0151 - Lines (LTER)         PV/2         PV/2         PV/2           LMG11-02         Stantaber B 0151 - Lines (LTER)         Stantaber B 0151 - Lines (LTER)         PV/2         PV/2         PV/2           LMG11-02         Stantaber B 0151 - Lines (LTER)         Different B 0151 - Lines (LTER)         PV/2         PV/2         PV/2           LMG11-02         Gouvelence Bland Research of LMG11-01         Different B 0151 - Lines (LTER)         PV/2         PV/2         PV/2           LMG11-02         Gouvelence Bland Rel camps         Different B 0151 - Lines (LTER)         PV/2         3/2/2/011         PV/2         3/2/2/011         PV/2           LMG11-02         Gouvelence Bland Rel camps         MA         4/2/2/2/011         PAL         4/2/2/2/011         PAL           LMG11-02         Gouvelence Bland Rel camps         MA         4/2/2/2/011         PAL         4/2/2/2/011         PAL           LMG11				11/13/2010		11/17/2010	
Interfer         Link	LMG10-10	Acoustic Assessment of Southern Ocean Salps and Their					
LMG11-01         Long-Term Exclusional IIII, TER)         Base 14-1         117/2011         PUQ         PAL           An Ide-Dominated Environment (L/TER)         Base 14-1         117/2011         PAL         PAL           Base 14-1         High Ducklow         Base 14-1         117/2011         PAL           An Ide-Dominated Environment (L/TER)         Base 14-1         117/2011         PAL           An Ide-Dominated Environment (L/TER)         Base 14-1         117/2011         PAL           Antaccin: Data Resonation for LMG11-01         B-11 Franer         B-01-1         214/2011         PAL           Conscience stand field camps         David Barbeau         214/2011         PAL         37/2011         PAL           Conscience stand field camps         David Barbeau         214/2011         PAL         37/2011         PAL           LMG11-02         Gassian France         3/23/2011         PAL         41/22/2011         PAL           LMG11-03         Refere to anone standard field camps         David Barbeau         214/2011         PAL         41/22/2011         PAL           LMG11-04         Redox balance noothenoid fishes: Do Idefishes have an averange?         Size2/2011         PAL         41/22/2011         PAL         5/22/2011         PAL         5/22/2011		Ecosystem Impact	B-393-L				
An fice-Dominated Environment (LTER)         B-241-4 High Ducklow B-445-L Ducker Scholerd B-452-L         1/72011         PAL         PUQ           An fice-Dominated Environment (LTER)         High Ducklow B-454-L Ducker Scholerd B-452-L         1/72011         PAL         Pup           An fice-Dominated Environment (LTER)         Devent Scholerd B-454-L         1/72011         PAL         Pup           Anterclin: Data Reposition for LMG11-01         B-114-L         2/142011         PUQ         2/142011         PUQ           Anterclin: Data Reposition for LMG11-02         David Barbeau         2/142011         PUQ         2/142011         PUQ           Anterclin: Data Reposition for LMG11-02         David Barbeau         2/142011         PUQ         3/132011         PAL           Anterclin: Data Reposition for LMG11-02         Concertain finite for any set of the se							
Hugh Ducklow         Hugh Ducklow         Hugh Ducklow         B-465.         Hugh Ducklow           B-465.1         B-465.1         B-465.1         B-465.1         B-465.1         B-465.1           B-465.1         B-475.2         B-425.1         B-465.1         B-475.1         B-475.1           B-11.4         B-11.4 <td>LMG11-01</td> <td></td> <td>-</td> <td></td> <td></td> <td>1/5/2011</td> <td></td>	LMG11-01		-			1/5/2011	
Bergen Bergen		An Ice-Dominated Environment (LTER)		1/7/2011	PAL		PUQ
Deboral Steinborg B-20-L Occar Schofield B-11-L Bill Fraser B-11-L James HollbaughPart Part Part B-11-L Bill Fraser B-11-L James HollbaughPuil <td></td> <td></td> <td>• •</td> <td></td> <td></td> <td></td> <td></td>			• •				
B 2021- Occur Schoffeld B-019-L Bill Fraer B-019-L Bill Fraer B-019-L Bill Fraer B-019-L Bill Fraer B-019-L James Hollbargh         PHL         PHL         PHL           LMG11-02         Geoscience Mand Tido camps         David Earbard Rooss MacThee B-019-L Antarctic Data Repository for LMG11-01 B-014-L Rooss MacThee G-170E         2/14/2011         PHL         3/12/2011         PAL           LMG11-02         Geoscience Mand Tido camps         David Earbard Rooss MacThee G-170E         2/14/2011         PAL         3/12/2011         PAL           LMG11-03         Patter Station Turnover         NA         3/23/2011         PAL         4/20/2011         PAL           LMG11-04         Redox balance in Antarctic nototheniol fishes: Do icefishes have an advantage?         NA         3/23/2011         PAL         4/22/2011         PAL           LMG11-05         Redox balance in Antarctic nototheniol fishes: Do icefishes have an advantage?         Krisin O'Brien Scittan         5/10/2011         PAL         4/22/2011         PAL         4/22/2011         PAL           LMG11-05         Redox balance in Antarctic nototheniol fishes: Do icefishes have an advantage?         Krisin O'Brien Scittan         5/10/2011         PAL         5/20/2011         PAL         5/20/2011         PAL         5/20/2011         PAL         5/20/2011         PAL         5/20/2011         PAL         5/20/2011							
Oscar Schofeid B-019-L Bill Fraser B-013L James HollbaughPublic B-013L James HollbaughPublic 							
Brite Fraser Brite Fraser Brite Fraser Brite Fraser 							
Bit Fraer B-013L James Hollbaugh Antarctic Data Repository for LMC11-01Bit H-14 B-114-1PUQ2/18/2011PALLMG11-02Geascience island field campsDavid Barbeau G-422-E Antarctic Data Repository for LMC11-02David Barbeau G-422-E Antarctic Data Repository for LMC11-02David Barbeau G-422-E Antarctic Data Repository for LMC11-02David Barbeau G-422-E Antarctic Data Repository for LMC11-02PAL PUQ3/13/2011PAL PUQLMG11-03Palmer Station TurnoverNIA3/23/2011PUQ 4/12/2011Alt2/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011Alt2/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 4/22/2011PAL 5/22/2011PAL 5/22/2011PAL 5/22/2011PAL 5/22/2011PAL 5/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/2011S/22/2011PAL 5/22/							
B-013L James Hollbaugh B-114LB-013L James Hollbaugh B-114LPUQ B-114L2/18/2011PAL PAL 3/13/2011PAL PAL Antarctic Data Repository for LMG11-02LMG11-02Gescience island field campsGescience island field campsGescience island field campsPUQ C-32-E2/18/2011PUQ PAL 3/13/2011PAL 3/13/2011PAL PAL 3/13/2011PAL Antarctic Data Repository for LMG11-02G-43-E3/22/2011PUQ 4/13/2011PUQ 4/13/2011PUQ 4/13/2011Al2/2011PUQ 4/13/2011PUQ 4/13/2011Al2/2011PUQ 4/13/2011PUQ 4/13/2011Al2/2011PUQ 4/13/2011PUQ 4/13/2011Al2/2011PUQ 4/13/2011PUQ 4/13/2011Al2/2011PUQ 4/13/2011PUQ 4/13/2011Al2/2011PUQ 4/13							
Anterdec Data Repository for LNG11-01         B-114-L         Consideration         Consideration <thconsideration< th="">         Consideration</thconsideration<>							
Anterdec Data Repository for LNG11-01         B-114-L         Consideration         Consideration <thconsideration< th="">         Consideration</thconsideration<>							
LMG11-02         Gesosience island field camps         David Barbeau G. 432-E Ross MacPhee G. 170-E Joseph Kirschvink         2/14/2011 PAL         PAL 7/2011         PAL PAL 7/2011         PAL 7/2011           Antarcle Data Repository for LMG11-02         G. 432-E Ross MacPhee G. 170-E Joseph Kirschvink         3/8/2011         PUQ         3/27/2011         PAL 7/2011           LMG11-02         Paimer Station Turnover         NA         3/22/2011         PUQ         3/27/2011         PAL 7/2011           LMG11-03         Paimer Station Turnover         NA         3/22/2011         PUQ         3/27/2011         PAL 7/2011           LMG11-08         Redox balance in Antactic nothenoid fishes: Do icelfishes have an advantage?         Kriein O'Brien 8-03e-L         4/18/2011         PUQ         5/2/2011         PAL 7/2011           LMG11-06         Collaborative Research: Flord Ecoxystem Structure and Function on the West Antarctic nothenoid fishes: Do icelfishes have an advantage?         Kriein O'Brien 8-03e-L         5/12/2011         PAL 8/2/2011         5/2/2011         PAL 8/2/2011           LMG11-06         Open Pariod, Punia Aranas, Chile         N/A         6/2/2011         PAL 8/2/2011         8/2/2011         PAL 8/2/2011         8/2/2011         PAL 8/2/2011         8/2/2011         PAL 8/2/2011         8/2/2011         PAL 8/2/2011         8/2/2011         PAL 8/2/2011         8/2/201		Antarctic Data Repository for LMG11-01					
Ross MacPhee         3/8/2011         PAL         3/13/2011         PUQ           Antarchic Data Repository for LMG11-02         G-438-E         9         9         9           LMG11-03         Palmer Station Turnover         NA         3/23/2011         PUQ         3/27/2011         PAL           LMG11-04         Redox balance in Antarchic notohenoid fishes: Do icefishes have an advantage?         Affairto Tbrinn         4/18/2011         PUQ         4/27/2011         PAL           LMG11-04         Redox balance in Antarchic notohenoid fishes: Do icefishes have an advantage?         Krisin O'Brinn         4/18/2011         PAL         4/27/2011         PAL           LMG11-05         Collaborative Research: Fjord Cooxystem Structure and Function on Graig Smith         5/13/2011         PAL         5/2/2011         PAL         5/2/2/2011         PAL         5/2/2/2011         PAL         5/2/2/2011<	LMG11-02		David Barbeau	2/14/2011	PUQ	2/18/2011	PAL
Antarctic Data Reposition for LMG11-02         Joseph Krischink G-436-E         PL         PL         S272011         PAL           LMG11-03         Palmer Station Turnover         N/A         4/52011         PUO         3/272011         PAL           LMG11-04         Redox balance in Antarctic notothenioid fishes: Do icelishes have an advantage?         Krisin O'Briten         4/132011         PUO         4/722011         PAL           LMG11-04         Redox balance in Antarctic notothenioid fishes: Do icelishes have an advantage?         Krisin O'Briten         5/202011         PAL         4/212011         PAL           LMG11-06         Redox balance in Antarctic notothenioid fishes: Do icelishes have an advantage?         Krisin O'Briten         5/202011         PAL         5/202011         PAL           Colaborative Research: Fjord Ecosystem Structure and Function on the West Antarctic Perinsula -Hot Spots of Productivity and biowerasity? (Fprofeco)         6/122011         PAL         5/202011         PAL           LMG11-06         Open Period, Punta Arenas, Chile         N/A         6/122011         PAL         6/122011         PAL         6/122011         PAL           LMG11-06         Open Period         N/A         8/122011         PUO         8/202011         PUO         8/202011         PUO         8/202011         PUO							
Joseph Kirschvink Altractic Data Repository for LMG11-02         Joseph Kirschvink 4362         PH         PH         PH           LMG11-03         Palmer Station Turnover         N/A         3/23/2011         PPL0         3/27/2011         PAD           LMG11-04         Redox balance in Antarctic notothenioid fishes: Do icefishes have an advantage?         Krisin O'Brien B-036-L         4/13/2011         PAL         4/27/2011         PAL           LMG11-04         Redox balance in Antarctic notothenioid fishes: Do icefishes have an advantage?         Krisin O'Brien B-036-L         5/2/2011         PAL         4/2/2011         PAL           LMG11-05         Redox balance in Antarctic notothenioid fishes: Do icefishes have an advantage?         Krisin O'Brien B-038-L         5/2/2011         PAL         5/2/2011				3/8/2011	PAL	3/13/2011	PUQ
Antarcic Data Repository for LMG11-02         G-436-E           Pub           LMG11-03         Palmer Station Turnover         NA         3/23/2011         PUQ         4/27/2011         PAL         4/27/2011         PAL         4/27/2011         PUQ         4/27/2011         PAL         5/2/2011							
LMG11-03         Palmer Station Turnover         NA         3/22/2011         PUQ         3/27/2011         PAL           LMG11-04         Redox balance in Antarctic notothenioid fishes: Do loefishes have an advantage?         Krisin O'Brien B-036-L         4/13/2011         PAL         4/27/2011         PAL           LMG11-05         Redox balance in Antarctic notothenioid fishes: Do loefishes have an advantage?         Krisin O'Brien B-036-L         5/10/2011         PAL         4/27/2011         PAL           LMG11-05         Redox balance in Antarctic notothenioid fishes: Do loefishes have advantage?         Krisin O'Brien B-036-L         5/10/2011         PAL         5/20/2011         PAL         5			-				
LMG11-04         Adaption         Puice         4/8/2011         PPu2         4/8/2011         PPu2           LMG11-04         an advantage?         Antractic Data Repository for LMG11-04         B-036-L         4/18/2011         PAL         4/27/2011         PAL           LMG11-04         Antractic Data Repository for LMG11-04         Krisin O'Brien         5/22/2011         PAL         4/27/2011         PAL           LMG11-06         Redox balance in Antractic notabheniod fishes: Do icefishes have an advantage?         Krisin O'Brien         5/22/2011         PAL         5/12/2011         PAL         <					5110		
LMG11-04 an advantage?         Redux balance in Antarctic nototheniod fishes: Do icefishes have an advantage?         4/13/2011 Antarctic Data Repository for LMG11-04 Antarctic Data Repository for LMG11-04 Antarctic Data Repository for LMG11-04 Attractic Data Repository for LMG11-04 Attractic Data Repository for LMG11-04 Attractic Data Repository for LMG11-04 Attractic Data Repository for LMG11-04 Bioliversity? (FjordEco)         Krisin O'Brien Bioliversity? (FjordEco)         4/13/2011 FPAL Bioliversity? (FjordEco)         PPAL Si2/2011 FPAL S	LMG11-03	Palmer Station Turnover	N/A				
an advantage?         B-036-L         4/18/2011         PAL.         4/21/2011         PAL.           Allarctic Data Repositor for LMG11-04         4/27/2011         PUQ.         6/3/2011         PUQ.           LMG11-05         Redox balance in Antarctic nototheniod fishes: Do icelishes have an advantage?         5/3/2011         PAL.         5/2/2011         PAL.           Coldaborative Research: Fjord Ecosystem Structure and Function on the West Antarctic Peninsula - Hot Spots of Productivity and biodiversity? (Fjord Eco)         6/3/2011         PAL.         5/2/2011         PAL.         5/2/2011 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Antractic Data Repositor (or LMG11-04         Puice         4/22/2011         PUice         4/22/2011         PUice           LMG11-05         Redox balance in Antarctic nototheniod fishes: Do icefishes have and variage?         Krisin O'Brien         5/10/2011         PAL         5/12/2011         PAL         6/12/2011         PAL	LIVIG I 1-04						
LMG11-05         Redox belance in Antarctic notothenioid fishes: Do icefishes have an advantage?         Fishin O'Brien 5/2/2011         5/2/2011         PLQ         5/9/2011         PAL           Collaborative Research: Fjord Ecosystem Structure and Function In Werk Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco)         Fishin O'Brien 5/13/2011         5/2/2011         PAL		5	D-030-L				
an advantage?         B-38-L         5/10/2011         PAL         5/12/2011         PAL         5/2/2011         PAL           Collaborative Research: Fjord Ecosystem Structure and Function on Biodiversity? (FjordEco)         Forder Structure and Function on Biodiversity? (FjordEco)         Forder Structure and Function on Structure Research: Functional Genomics and Physiological Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean         N/A         6/12/2011         PAL         6/2/2011         PUQ           LMG11-06         Open Period, Punta Arenas, Chile         N/A         6/12/2011         PUQ         7/31/2011         PUQ           LMG11-06         Open Period, Punta Arenas, Chile         N/A         6/12/2011         PUQ         8/20/2011         PUQ           LMG11-07         Open Period         Nata         6/12/2011         PUQ         8/20/2011         PUQ           LMG11-07         Open Period         N/A         8/12/2011         PUQ         9/1/2011         PUQ           LMG11-08         Palmer Station Opening         N/A         9/13/2011         PUQ         9/1/2011         PUQ           LMG11-08         Palmer Station Opening         N/A         10/12/2011         PUQ         11/12/2011         PAL           Collaborative Research Cibere expression profiles of the Southem inpact         Collaborative Re	LMG11-05		Krisin O'Brien				
Collaborative Research: Fjord Ecosystem Structure and Function on the West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco)         Craig Smith 5/21/2011         PAL         5/24/2011         PAL         5/24/2011         PAL           LMG11-06         Open Period, Punta Arenas, Chile         NIA         6/12/2011         PAL         6/12/2011         PUQ         8/20/2011         PUQ           LMG11-06A         Collaborative Research: Functional Genomics and Physiological Ecology of Seasonal Succession in Antarctic Phytoplankton: Adaptations to Light and Temperature Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean         James Ledwell         8/12/2011         PUQ         8/20/2011         PUQ           LMG11-07         Open Period         N/A         8/31/2011         PUQ         8/30/2011         PUQ         8/30/2011         PUQ           LMG11-08         Palmer Station Opening Antarctic Data Repository for LMG11-08         N/A         9/13/2011         PUQ         9/13/2011         PAL         10/12/2011         PUQ           LMG11-08         Antarctic Data Repository for LMG11-09         N/A         10/22/2011         PAL	Ellio III 00						
the West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco)         G-246-L         5/21/2011 5/27/2011         PAL         5/24/2011 PAL         PAL         5/24/2011 PAL         PAL         6/20211 PAL         PAL         6/20211 PAL         PAL         6/20211 PAL         PAL         6/2/2011         PUQ           LMG11-06         Collaborative Research: Functional Genomics and Physiological Ecology of Seasonal Succession in Antarctic Phytoplankton: Adaptations to Light and Temperature Diapyonal and Isoycral Mixing Experiment in the Southern Ocean         B/2/2011         PUQ         8/2/2011         PUQ </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Biodiversity? (FjordEco)         5/27/2011         PAL 6/7/2011         5/30/2011 PAL 6/7/2011         PAL 6/7/2011         5/30/2011 PAL 6/1/2011         PAL 6/1/2011         5/30/2011 PAL 6/1/2011         PAL 6/1/2011         5/30/2011 PAL 6/1/2011         PAL 6/1/2011         5/30/2011 PAL 8/1/2011         PAL 6/1/2011         5/30/2011 PAL 8/1/2011         PAL 6/1/2011         5/30/2011 PAL 8/1/2011         PAL 8/1/2011         5/30/2011 PAL 8/1/2011         PAL 8/1/2011         5/30/2011 PUQ         PAL 8/1/2011         5/30/2011 PUQ         PAL 8/1/2011         5/30/2011         PAL 8/1/2011         5/30/2011         PAL 8/1/2011         5/30/2011         PAL 8/1/2011         5/30/2011         PAL 8/1/2011         6/1/2011         PUQ         8/1/2011         P		the West Antarctic Peninsula - Hot Spots of Productivity and	G-246-L				
LMG11-06         Open Period, Punta Arenas, Chile         N/A         6/12/2011         PUQ         7/31/2011         PUQ           LMG11-06A         Collaborative Research: Functional Genomics and Physiological Ecology of Seasonal Succession in Antarctic Phytoplankton: Adaptations to Light and Temperature Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean         Deneb Karentz B-466-L         8/1/2/011         PUQ         8/20/2011         PUQ           LMG11-07         Open Period         Open Period         N/A         8/21/2011         PUQ         8/30/2011         PUQ           LMG11-08         Palmer Station Opening Antarctic Data Repository for LMG11-08         N/A         9/13/2011         PUQ         9/12/2011         PUQ           LMG11-08         Palmer Station Opening Antarctic Data Repository for LMG11-09         N/A         9/13/2011         PAL         10/12/2011         PUQ           LMG11-00         Cape Shirreff Opening Collaborative Research: Gene expression profiles of the Southern Ocean salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosystem Antarctic Data Repository for LMG11-10         N/A         12/2/2011         PAL         12/2/2011         PUQ           LMG11-01         LTER Stre Review Antarctic Data Repository for LMG11-10         N/A         12/2/2011         PAL         12/2/2011         PAL           LMG11-10         LTER Stre Review Antarctic Dat				5/27/2011	PAL	5/30/2011	PAL
LMG11-06A       Collaborative Research: Functional Genomics and Physiological Ecology of Seasonal Succession in Antarctic Phytoplankton: Adaptations to Light and Temperature Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean       Deneb Karentz       8/1/2011       PUQ       8/7/2011       PAL         LMG11-07       Open Period       James Ledwell O-124-L       James Ledwell       0       8/21/2011       PUQ       8/30/2011       PUQ         LMG11-08       Palmer Station Opening Antarctic Data Repository for LMG11-09       N/A       9/13/2011       PUQ       9/18/2011       PAL         LMG11-09       Palmer Station Opening Antarctic Data Repository for LMG11-09       N/A       9/13/2011       PUQ       9/13/2011       PUQ         LMG11-09       Palmer Station Opening Antarctic Data Repository for LMG11-09       N/A       10/7/2011       PUQ       10/13/2011       PUQ         LMG11-10       Collaborative Research: Gene expression profiles of the Southern Ocean salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosystern Impact       Ann Bucktin       11/2/2/2011       PUQ       11/2/2/2011       PAL         LMG11-11       LTER Cargo Onioad, Punta Arenas, Chile       N/A       12/1/2/2011       PAL       12/1/2/2011       PUQ         LMG11-11       LTER Site Review Antarctic Data Repository for LMG11-10       N/A       12/2/2/2011       PUQ </td <td></td> <td></td> <td></td> <td>6/7/2011</td> <td>PAL</td> <td>6/11/2011</td> <td>PUQ</td>				6/7/2011	PAL	6/11/2011	PUQ
ConstraintConstraintConstraintConstraintConstraintPart8/12/2011PAL8/20/2011PUQLing 11-07Dep PeriodDep PeriodN/A8/21/2011PUQ8/30/2011PUQLMG11-07Dep PeriodN/A8/21/2011PUQ8/30/2011PUQLMG11-08Palmer Station OpeningN/A9/13/2011PUQ9/18/2011PUQLMG11-08Palmer Station OpeningN/A9/13/2011PUQ9/18/2011PUQLMG11-08Palmer Station OpeningN/A10/7/2011PUQ10/13/2011PUQLMG11-08Palmer Station OpeningN/A10/7/2011PUQ10/13/2011PUQLMG11-01Cape Shiref OpeningAnn Bucklin11/2/2011PUQ10/13/2011PALAntarctic Data Repository for LMG11-03Ann Bucklin11/2/2011PUQ10/2/20211PALLMG11-10Collaborative Research: Gene expression profiles of the Southern Ocean salp, Salpa thompsoni Accoustic Assessment of Southern Ocean Salps and Their Ecosyster Antarctic Data Repository for LMG11-10N/A12/5/2011PAL12/1/2011PUQLMG11-11LTER Cargo Onload, Punta Arenas, ChileN/A12/2/2011PUQ12/2/20211PALLMG12-01LTER Cargo Onload, Punta Arenas, ChileN/A12/2/20211PUQ12/2/20212PALLMG12-01LTER Cargo Onload, Punta Arenas, ChileN/A12/2/2/2011PUQ12/2/2012PALLMG12-01LTER Cargo Onload, Punta Arenas, Chi	LMG11-06	Open Period, Punta Arenas, Chile	N/A	6/12/2011	PUQ	7/31/2011	PUQ
Looking of Oresting Adaptations to Light and Temperature Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Adaptations to Light and Temperature Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Anarctic Data Repository for LMG11-08James Ledwell O-124-LPUQ 8/30/2011B/UQ 9/1/2011PUQ 9/1/2011B/UQ 9/1/2011PUQ 9/2/2011PUQ 9/2/	LMG11-06A	Collaborative Research: Functional Genomics and Physiological					
Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Open PeriodJames Ledwell 0-124-LPUQ#//LMG11-07Open PeriodN/A8/21/2011PUQ8/30/2011PUQLMG11-08Palmer Station Opening Antarctic Data Repository for LMG11-08N/A9/13/2011PUQ9/1/2011PUQLMG11-09Palmer Station Opening Antarctic Data Repository for LMG11-09N/A9/13/2011PUQ9/18/2011PUQLMG11-10Cape Shirreff Opening Calab Schirreff Opening Notanic Assessment of Southern Ocean salps and Their Ecosystem Impact Antarctic Data Repository for LMG11-10Ann Bucklin B-285-L Joseph Warren11//2/2011PAL 11//2/201111//2/2011PAL 11//2/2011LMG11-11LTER Site Review Antarctic Data Repository for LMG11-10N/A12/s/2011PAL 12/s/201112/s/2011PUQLMG11-12LTER Cargo Onload, Punta Arenas, ChileN/A12/s/2011PUQ 12/28/201112/s/2011PUQ 12/28/2011PUQLMG12-01Long-Term Ecological Research on the Antarctic Marine Ecosystem An Ice-Dominated Environment (LTER)N/A12/s/2011PUQ 12/28/201112/s/2012 PAL 12/1/2012PAL 12/s/201212/s/2012 PAL 12/s/2011PUQ 12/s/201212/s/2012 PAL 12/s/2011PUQ 12/s/201212/s/2012 PAL 12/s/2011PUQ 12/s/2011PUQ 12/s/2011PUQ 12/s/201112/s/2011 PUQPUQ 12/s/2011PUQ 12/s/2011PUQ 12/s/2011PUQ 12/s/201112/s/2011 PUQPUQ 12/s/2011PUQ 12/s/201		Ecology of Seasonal Succession in Antarctic Phytoplankton:	B-466-L	8/12/2011	PAL	8/20/2011	PUQ
LMG11-07Open PeriodO124-LOLMG11-07Open PeriodN/A8/21/2011PUQ8/30/2011PUQLMG11-08Palmer Station Opening Antarctic Data Repository for LMG11-08N/A9/13/2011PUQ9/18/2011PALLMG11-09Palmer Station Opening Antarctic Data Repository for LMG11-08N/A9/13/2011PAL10/1/2011PUQLMG11-09Palmer Station Opening Antarctic Data Repository for LMG11-09N/A10/72011PAL10/1/2011PALLMG11-10Cape Shirreff Opening Ceal salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosyster Impact Antarctic Data Repository for LMG11-10Ann Bucklin B-285-L Joseph Warren11/27/2011PAL11/2/2011PALLMG11-11LTER Site Review Antarctic Data Repository for LMG11-10N/A12/5/2011PUQ12/9/2011PUQLMG11-12LTER Cargo Onload, Punta Arenas, ChileN/A12/2/2011PUQ12/9/2011PUQLMG12-01Long-Term Ecological Research on the Antarctic Marine Ecosystem: H a loc-Dominated Environment (LTER)N/A12/2/2012PAL2/7/2012PALNicolas Cassar O-4405-LDeborah Steinberg B-0420-LS020-LS03car Schofield B-013-LFalserFalserFalserB-013-LDouglas MartinsonB-013-LDouglas MartinsonDouglas MartinsonFalserFalser							
LMG11-07         Open Period         N/A         8/21/2011         PUQ         8/30/2011         PUQ           LMG11-08         Palmer Station Opening Antarctic Data Repository for LMG11-08         N/A         9/13/2011         PUQ         9/12/2011         PUQ           LMG11-08         Palmer Station Opening Antarctic Data Repository for LMG11-09         N/A         9/13/2011         PAL         10/1/2011         PUQ           LMG11-09         Palmer Station Opening Antarctic Data Repository for LMG11-09         N/A         10/72/2011         PUQ         10/1/3/2011         PUQ           LMG11-10         Cape Shirref Opening Collaborative Research: Gene expression profiles of the Southern Ocean salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosyster Impact Antarctic Data Repository for LMG11-10         Ann Bucklin B-393-L         11/2/2011         PAL         11/2/2011         PUQ           LMG11-12         LTER Site Review Antarctic Data Repository for LMG11-10         N/A         12/5/2011         PUQ         12/9/2011         PUQ           LMG12-01         LIG TER Site Review Antarctic Data Repository for LMG11-11         N/A         12/2/2011         PUQ         12/9/2011         PUQ           LMG12-01         LIG TER Cargo Onload, Punta Arenas, Chile         N/A         12/2/2011         PUQ         12/2/2012         PAL		Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean	James Ledwell				
LMG11-08         Palmer Station Opening Antarctic Data Repository for LMG11-08         N/A         9/13/2011         PUQ         9/1/2011         PUQ           LMG11-09         Palmer Station Opening Antarctic Data Repository for LMG11-09         N/A         9/13/2011         PAL         10/1/2011         PUQ         9/18/2011         PAL           LMG11-09         Palmer Station Opening Antarctic Data Repository for LMG11-09         N/A         10/7/2011         PAL         10/2/2011         PUQ         10/3/2011         PUQ           LMG11-10         Cape Shirreff Opening Collaborative Research: Gene expression profiles of the Southerm Ocean salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosyster Impact         B-285-L         11/9/2011         PAL         12/1/2011         PUQ           LMG11-11         LTER Site Review Antarctic Data Repository for LMG11-10         N/A         12/5/2011         PUQ         12/9/2011         PAL           LMG12-01         LTER Site Review Antarctic Data Repository for LMG11-11         N/A         12/2/2011         PUQ         12/2/9/2011         PUQ           LMG11-21         LTER Site Review Antarctic Data Repository for LMG11-10         N/A         12/2/2/2011         PUQ         12/2/2/2011         PUQ           LMG11-21         LTER Site Review Antarctic Data Repository for LMG11-10         N/A         12/2/			O-124-L				
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LMG11-12       LTER Cargo Onload, Punta Arenas, Chile       N/A       12/24/2011       PUQ       12/28/2011       PUQ         LMG12-01       Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)       Hugh Ducklow       12/29/2011       PUQ       1/2/2012       PAL         B-045-L       1/4/2012       PAL       2/1/2012       PAL       2/1/2012       PAL         O-405-L       Deborah Steinberg       B-020-L       Oscar Schofield       B-013-L       Bill Fraser       B-013-L       Douglas Martinson       Image: Comparison of the compar	LMG11-11		N/A	12/5/2011	PUQ	12/9/2011	PAL
LMG12-01       Long-Term Ecological Research on the Antarctic Marine Ecosystem:       Hugh Ducklow       12/29/2011       PUQ       1/2/2012       PAL         An Ice-Dominated Environment (LTER)       B-045-L       1/4/2012       PAL       2/1/2012       PAL         Nicolas Cassar       2/2/2012       PAL       2/1/2012       PAL       2/1/2012       PAL         Deborah Steinberg       B-020-L       Oscar Schofield       B-019-L       Bill Fraser       B-013-L       Douglas Martinson       Image: Cass Cass Cass Cass Cass Cass Cass Cas		Antarctic Data Repository for LMG11-11			PAL		
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CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG12-02	Impact of recent climate warming on active-layer dynamics,	James Bockheim	2/13/2012	PUQ	2/17/2012	PAL
	permafrost, and soil properties on the western Antarctic Peninsula	G-239-E	2/24/2012	PAL	2/26/2012	PAL
	Collaborative Research: Antarctic Automatic Weather Station	Matthew Lazzara	2/27/2012	PAL	3/2/2012	PAL
	Program 2013-2017 Antarctic Data Repository for LMG12-02	O-283-L	3/5/2012	PAL	3/11/2012	PUQ
LMG12-03	Microtubule Function, Protein Folding, and Embryogenesis in	William Detrich	3/17/2012	PUQ	3/22/2012	PAL
	Antarctic Fishes: An Integrative Approach	B-037-L	3/24/2012	PAL	3/27/2012	PAL
	Developmental Mechanisms for the Evolution of Bone Loss	John Postlethwait	3/29/2012	PAL	4/3/2012	PUQ
LMG12-04	Antarctic Data Repository for LMG12-03	B-029-L William Detrich	4/8/2012	PUQ	4/12/2012	PAL
LIVIG 12-04	Microtubule Function, Protein Folding, and Embryogenesis in Antarctic Fishes: An Integrative Approach	B-037-L	4/14/2012	PAL	4/17/2012	PAL
	The role of reactive oxygen species in the skeletal development of	Jeffrey Grim	4/19/2012	PAL	4/22/2012	PAL
	Antarctic notothenioids	B-038-L	4/24/2012	PAL	4/27/2012	PUQ
	Developmental Mechanisms for the Evolution of Bone Loss	John Postlethwait B-029-L				
LMG12-05	Microtubule Function, Protein Folding, and Embryogenesis in	William Detrich	5/2/2012	PUQ	5/7/2012	PAL
	Antarctic Fishes: An Integrative Approach	B-037-L	5/9/2012	PAL	5/11/2012	PAL
	Developmental Mechanisms for the Evolution of Bone Loss	John Postlethwait	5/17/2012	PAL	5/18/2012	PAL
	Antarctic Data Repository for LMG12-05	B-029-L	5/21/2012	PAL	5/23/2012	PAL
			5/27/2012	PAL	5/30/2012	PUQ
LMG12-06	Microtubule Function, Protein Folding, and Embryogenesis in	William Detrich	6/6/2012	PUQ	6/11/2012	PAL
	Antarctic Fishes: An Integrative Approach	B-037-L	6/13/2012	PAL	6/16/2012	PAL
	Antarctic Data Repository for LMG12-06	Haz Waste Pickup	6/21/2012	PAL	6/25/2012	PUQ
LMG12-07 LMG12-08	Transit to dry dock maintenance period	N/A	6/28/2012	PUQ	7/23/2012	FCH
LMG12-08 LMG12-09	Haz waste offload / dry dock Transit to Punta Arenas	N/A N/A	7/24/2012 8/17/2012	FCH FCH	8/16/2012 9/11/2012	FCH PUQ
LIVIG 12-09	Antarctic Data Repository for LMG12-09	IN/A	0/17/2012	FUN	JIII/2012	FUQ
LMG12-10	Palmer Station Opening	James Ledwell	9/18/2012	PUQ	9/22/2012	PAL
2	Antarctic Data Repository for LMG12-10	0-124-L	9/28/2012	PAL	10/4/2012	PUQ
LMG12-11	Continuation of the LARISSA continuous GPS network in view of	Eugene Domack	10/10/2012	PUQ	10/16/2012	PAL
		C-515-L	10/17/2012	PAL	10/18/2012	PAL
	and Required Geologic Constraints.		10/21/2012	PAL	10/30/2012	PUQ
	COPA Opening/ Palmer Station Opening					
	Antarctic Data Repository for LMG12-11					
LMG12-12	Palmer Station Opening	N/A	11/4/2012	PUQ	11/9/2012	PAL
LMG12-13	Cape Shirreff Opening NSF	N1/A	11/18/2012 11/28/2012	PAL PUQ	11/23/2012 12/2/2012	PUQ PAL
LIVIG 12-13	NSF	N/A	12/3/2012	POQ	12/2/2012	PAL
LMG12-13A	Collaborative Research: Submarine Groundwater and Freshwater	David Corbett	12/10/2012	PUQ	12/20/2012	PAL
	Inputs Along the Western Antarctic Peninsula	0-176-L	12/20/2012	PAL	12/24/2012	PUQ
LMG13-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Hugh Ducklow	12/30/2012	PUQ	1/3/2013	PAL
	An Ice-Dominated Environment (LTER)	B-045-L	1/5/2013	PAL	1/19/2013	ROTHERA
	http://www.icess.ucsb.edu	Deborah Steinberg	1/20/2013	ROTHERA	1/27/2013	ROTHERA
		B-020-L	1/27/2013	ROTHERA	2/2/2013	PAL
	Antarctic Data Repository for LMG13-01	Oscar Schofield	2/3/2013	PAL	2/7/2013	PUQ
		B-019-L William Fraser				
		B-013-L				
		Doug Martinson				
		B-021-L				
		Nicolas Cassar				
		O-405-L				
LMG13-02	Cape Shirreff Close	N/A	2/12/2013	PUQ	2/16/2013	PAL
	COPA Close		2/21/2013	PAL	2/26/2013	SHF
	Antarctic Data Repository for LMG13-02		2/26/2013	SHF	2/27/2013	COPA
LMG13-03	Developmental Mechanisms for the Evolution of Bone Loss	John Postlethwait	2/27/2013	COPA PUQ	3/4/2013	PUQ PAL
LIVIG 13-03	Antarctic Data Repository for LMG13-03	B-029-L	3/10/2013 3/21/2013	POQ PAL	3/15/2013 3/23/2013	PAL PAL
			3/26/2013	PAL	3/23/2013	PAL
			4/3/2013	PAL	4/7/2013	PUQ
LMG13-04	Redox balance in Antarctic notothenioid fishes: Do icefishes have	Kristin O'Brien	4/12/2013	PUQ	4/15/2013	Carlini Base
	an advantage?	B-036-L		Cierva Point		PAL
			4/22/2013	PAL	4/23/2013	Maxwell Bay
			4/24/2013	PAL	4/25/2013	PAL
		Listen Based adversed	4/28/2013	PAL	5/2/2013	PAL
	Developmental Mechanisms for the evolution of bone loss	John Postlethwait			0, 2, 20.0	
LMG13-05	Developmental Mechanisms for the evolution of bone loss	B-029-L	5/6/2013	PUQ	5/15/2013	PAL
LMG13-05	Impact of recent climate warming on active-layer dynamics,					PAL PAL
LMG13-05	Impact of recent climate warming on active-layer dynamics, permafrost, and soil properties on the western Antarctic Peninsula		5/6/2013	PUQ	5/15/2013	
LMG13-05	Impact of recent climate warming on active-layer dynamics,	B-029-L	5/6/2013	PUQ	5/15/2013 5/18/2013	PAL

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG13-06	Redox balance in Antarctic notothenioid fishes: Do icefishes have	Kristin O'Brien	6/3/2013	PUQ	6/6/2013	ROT
	an advantage?	B-036-L	6/6/2013	ROT	6/7/2013	meet NBP
	Developmental Mechanisms for the evolution of bone loss	John Postlethwait				
		B-029-L			7/1/2013	PUQ
	Antarctic Data Repository for LMG13-06					
LMG13-08	OPEN/Standby period 7/7-9/9/13 LMG13-09 Pal Sta turnover	N/A	9/13/2013	PUQ	9/17/2013	PAL
	Antarctic Data Repository for LMG13-09		9/23/2013	PAL	9/27/2013	PUQ
LMG13-10	NOAA	NOAA	10/4/2013	PUQ	10/7/2013	COPA
			10/8/2013	COPA	10/9/13	PAL
			10/13/13	PAL	10/20/13	PUQ
	Antarctic Data Repository for LMG13-10					
LMG13-11	In collaboration with KOPRI, the LARISSA PI team will return to the northern Peninsula region to complete data collection related to	Eugene Domack C-515-L	10/27/2013	PUQ	10/30/2013	SHF
	current LARISSA grant, and remove all US installations and gear for		10/31/2013 11/3/2013	SHF PAL	11/1/2013 11/8/2013	PAL PAL
	transfer to KOPRI.		11/9/2013	PAL	11/13/2013	PUQ
	Antarctic Data Repository for LMG13-11		11/0/2010	1712	11/10/2010	1 OQ
LMG13-12	Provide evolutionary understanding of how marine benthic	Ken Halanych	11/22/2013	PUQ	11/26/2013	PAL
ENIO 10-12	organisms are genetically structured and physically distributed in	B-281-L	12/16/2013	PAL	12/20/2013	PUQ
	the Western Antarctic; examine larval distributions and assess if	D-201-2	12/10/2010		,_0,_0,10	
	distributuions are consistant with patterns of genetic connectivity					
	within Antarctic waters.					
	Antarctic Data Repository for LMG13-12					
LMG14-01	LTER- Long-Term Ecological Research	Oscar Schofield	12/29/2013	PUQ	1/2/2014	PAL
		B-019-L				
	Physiological and ecosystem structure forcings on carbon fluxes in	Nicolas Cassar	2/2/2014	PAL	2/9/14	PUQ
	the Southern Ocean mixed layer	O-405-L				
	Antarctic Data Repository for LMG14-01			5110		
LMG14-02	Collaborative Research: Submarine Groundwater and Freshwater	David Corbett	2/13/2014	PUQ	3/18/2014	PUQ
	Inputs Along the Western Antarctic Peninsula	O-176-P				
	Antarctic Data Repository for LMG14-02	Matthew Lamanna				
LMG14-03	Palmer Station Turnover- winter staffing	G-182-L N/A	3/21/2014	PUQ	3/25/2014	PAL
LIVIG 14-03		N/A	3/30/2014	POQ	4/4/2014	PUQ
LMG14-04	Microtubule Function, Protein Folding, and Embryogenesis in	William Detrich	4/7/2014	PUQ	4/13/2014	PAL
ENIO 14-04	Antarctic Fishes: An Integrative Approach	B-037-L	5/15/2014	PAL	5/19/2014	PUQ
	Antarctic Data Repository for LMG14-04					
LMG14-05	Dry Dock in Talcahuano, Chile	N/A	5/20/2014	PUQ	6/21/2014	PUQ
LMG14-06	Environmental, organismal and evolutionary physiology of freeze	Chi-Hing Cheng	6/22/2014	PUQ	6/28/2014	PAL
	avoidance in antarctic Notothenoid fishes	B-010-L	8/17/2014	PAL	8/21/2014	PUQ
	Antarctic Data Repository for LMG14-06					
LMG14-07	OPEN Period	N/A	8/14/2014		9/9/2014	
LMG14-08	Palmer Station Opening	N/A	9/13/2014	PUQ	9/17/2014	PAL
	Antarctic Data Repository for LMG14-08		9/23/2014 10/17/2014	PAL PAL	9/27/2014 10/21/2014	PUQ PUQ
LMG14-09	Palmer Station Science Opening	N/A	10/5/2014	PUQ	10/21/2014	PAL
LING 14-03		N/A	10/3/2014	100	10/10/2014	I AL
	Antarctic Data Repository for LMG14-09		10/17/2014	PAL	10/21/2014	PUQ
LMG14-10	Study impact of local physical processes on Adelie peguin foraging	Josh Kohut	10/27/2014	PUQ	11/6/2014	PAL
2	ecology in the vicinity of Palmer Deep canyon off Anvers	B-005-L		····		
	Island; WAP (Kohut) Analysis of acoutic Doppler current profilers	Valerie Loeb	11/18/2014	PAL	11/22/2014	PUQ
	records form 1999 to present	B-268-L				
LMG14-11	Continuously monitor the fronts in the southern Drake Passage by	Andrew Thompson	11/27/2014	PUQ	12/1/2014	PAL
	Continuously monitor the fronts in the southern Drake Passage by					
LINGITII	,	O-275-L				
LINGT	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial	0-275-L	12/17/2014	PAL	12/21/14	PUQ
LINGTATI	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter	O-275-L	12/17/2014	PAL	12/21/14	PUQ
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial		12/17/2014	PAL	12/21/14	PUQ
LMG15-01	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u>	Hugh Ducklow				
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter	Hugh Ducklow C-045	12/17/2014	PAL	12/21/14 1/3/2015	PUQ
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u>	Hugh Ducklow C-045 Debbie Steinberg	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u>	Hugh Ducklow C-045 Debbie Steinberg C-020				
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u>	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u>	Hugh Ducklow C-045 Debbie Steinberg C-020	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u>	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u> LTER-Long-Term Ecological Research	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield C-019	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u> LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield C-019 William Fraser	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u> LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield C-019 William Fraser C-013	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u> LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield C-019 William Fraser C-013 Doug Martinson	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u> LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield C-019 William Fraser C-013 Doug Martinson C-021	12/27/2014	PUQ	1/3/2015	PAL
	deploying and piloting a pair of ocean gliders to collect approx. 1000 profiles of temp, salinity, dissolved oxygen, fluorescence and optial backscatter <u>Antarctic Data Repository for LMG14-11</u> LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield C-019 William Fraser C-013 Doug Martinson C-021 Ari Friedlander	12/27/2014	PUQ	1/3/2015	PAL

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG15-02	Antarctic Data Repository for LMG15-01 To assess the status, viability, and ecological impacts of populations	Richard Aronson	2/13/2015	PUQ	2/18/2015	PAL
LIVIO 10-02	of potentially invading, predatory king crabs in the Bellingshausen	B-002-L			2/10/2013	
	Sea. Antarctic Data Repository for LMG15-02		3/11/2015	PAL	3/16/2015	PUQ
LMG15-03	Palmer Station Turnover	N/A	3/20/2015	PUQ	3/25/2015	PAL
LMG15-04	To understand the physiological and biochemical	Kristin O'Brien	3/31/2015 4/7/2015	PAL PUQ	4/4/2015 4/12/2015	PUQ PAL
LIVIO 10-04	mechanisms that define thermal tolerance of Antarctic	B-036-L	5/7/2015	PAL	5/11/2015	PUQ
	notothenioids.					
LMG15-05	Antarctic Data Repository for LMG15-04 To understand the physiological and biochemical mechanisms that	Kristin OlDrise	5/15/2015	PUQ	5/19/2015	PAL
LING 15-05	define thermal tolerance of Antarctic notothenioids.	Kristin O'Brien B-036-L	6/12/2015	POQ	6/17/2015	PAL
LMG15-05B	Antarctic Data Repository for LMG15-05 XBT/XCTD Shuttle Run	N/A	6/20/2015	PUQ	6/24/2015	PAL
	Antarctic Data Repository for LMG15-05B		6/26/2015	PAL	6/30/2015	PUQ
LMG15-06	OPEN	N/A	7/4/2015	PUQ	9/23/2015	PAL
LMG15-07	NSF SITE VISIT	N/A	9/24/2015	PUQ	9/26/2015	PAL
Emo to of		10/4	0/2 1/2010	1 OQ	0/20/2010	1712
LMG15-08	Palmer Station Turnover	N/A	10/2/2015	PUQ	10/08/2015	PAL
EMIC 10-00			10/13/2015	PAL	10/18/2015	PUQ
LMG15-09	Antarctic Data Repository for LMG15-08 To sample the measured convergence and divergence zones with	Joshua Kohut	10/22/2015	PUQ	10/31/2015	PAL
Line to be	the context of the semi-diurnal tidal regimes. To collect the non-	B-006	11/08/2015	PAL	11/13/2015	PUQ
	seasonal, brooding scleractinian Flabellum impensum to be brought back to Palmer Station for a month long climate change	Valerie Loeb				
	experiement	B-288				
		Rhian Waller				
LMG15-10	To determine whether sub-polar WAP fjords are regionally	B-248 Craig Smith	11/19/2015	PUQ	11/23/2015	PAL
LIMG 15-10	significant hotspots of productivity and biodiversity	B-212	12/24/2015	POQ	12/28/2015	PUQ
	Antarctic Data Repository for LMG15-10					
LMG16-01	To build on preliminary surface distribution trace metal data, by	Robert Sherrell	1/3/2016	PUQ	1/8/2015	PAL
	launching a major effort to quantify the 3-D distributions of, and processes driving, dissolved concentrations of Fe, but also of the	B-203	2/13/2016	PAL	2/17/2016	PUQ
	bioactive metals Mn (manganese), Zn (zinc), Co (cobalt), Cu					
	(copper), and build on our preliminary surface distribution trace metal data, by launching a major effort to quantify the 3-D					
	distributions of, and processes driving, dissolved concentrations of					
	Fe, but also of the bioactive metals Mn (manganese), Zn (zinc), Co					
	(cobalt), Cu (copper), and Ni (nickel) on the WAP shelf. LTER-Long-Term Ecological Research	Hugh Ducklow				
	To document/understand the phenology and variability in sea ice	C-045				
	dyamics, primary production, zooplankton ecology, Adelie	Debbie Steinberg C-020				
	penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.	C-020 Oscar Schofield				
		C-019				
		William Fraser C-013				
		Doug Martinson				
		C-021				
		Ari Friedlander C-024				
	Antarctic Data Repository for LMG16-01					
LMG16-02	To increase our understanding of current biogeography and diversity by providing in-depth knowledge of soil community composition and	Rebecca Ball B-300	2/21/2016 3/18/2016	PUQ PAL	2/27/2016 3/24/2016	PAL PUQ
	complexity as it relates to environmental (above- and belowground)	5-000	0/10/2010		012712010	
	and climatic characteristics; and (2) determine the nature of aboveground-belowground community linkages over varying spatial					
	scales, quantifying how the strength of linkages changes along the					
	gradient. Antarctic Data Repository for LMC16.02					
LMG16-03	Antarctic Data Repository for LMG16-02 PALMER TURNOVER (XBT/XCTD)	N/A	3/29/2016	PUQ	4/2/2016	PAL
	Antarctic Data Renovitory for LMC16.03		4/9/2016	PAL	4/13/2016	PUQ
	Antarctic Data Repository for LMG16-03				1	

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG16-04	To understand the molecular and physiological capacities of	William Dietrich	4/17/2016	PUQ	4/24/2016	PAL
	Antarctic notothenioid fishes to acclimatize and/or adapt to rapid oceanic warming	B-037	5/13/2016	PAL	5/17/2016	PUQ
	Antarctic Data Repository for LMG16-04					
LMG16-05	To understand the molecular and physiological capacities of Antarctic notothenioid fishes to acclimatize and/or adapt to rapid	William Dietrich B-037	5/21/2016 6/17/2016	PUQ PAL	5/25/2016 6/21/2016	PAL PUQ
	oceanic warming	B-037	0/17/2010	I AL	0/21/2010	TUQ
LMG16-06	Antarctic Data Repository for LMG16-05 To introduce students to the diversity of biological organisms in	Donal Manahan	6/25/2016	PUQ	6/29/2016	PAL
	Antarctic polar regions, to study unique aspects of biology that permit life in such extreme environments and to provide the opportunity for scientists new to the Antarctic to learn about and appreciate the logistical possibilities and constraints of working in this extreme environment.	B-301	7/31/2016	PAL	8/4/2016	PUQ
LMG16-07	Open	N/A	8/8/2016	PUQ	8/31/2016	PUQ
LMG16-08	Open	N/A	9/1/2016	PUQ	9/27/2016	PUQ
LMG16-09	XBT/XCTD	N/A	10/2/2016	PUQ	10/06/2016	PAL
	Palmer Station Opening Antarctic Data Repository for LMG16-09		10/13/2016	PAL	10/17/2016	PUQ
LMG16-10	Palmer Science Movements/Shirreff Opening	N/A	10/21/2016	PUQ	10/27/2016	PAL
			11/1/2016	PAL	11/05/2016	PUQ
LMG16-11	Logistics Cruise	N/A	11/9/2016 11/25/2016	PUQ PAL	11/13/2016 11/29/2016	PAL PUQ
1 10 12 12						<b>D 1</b>
LMG16-12	Characterization of the diurnal, and seasonal variability in the CO2 system on the West Antarctic Peninsula continental shelf from autonomous moored platforms.	Elizabeth Shadwick O-270	12/3/2016 12/13/2016	PUQ PAL	12/7/2016 12/20/2016	PAL PUQ
LMG17-01	LTER-Long-Term Ecological Research	William Fraser	12/30/16	PUQ PAL	1/4/2017 2/10/2017	PAL PUQ
	To document/understand the phenology and variability in sea ice	C-013 Oscar Schofield	2/6/17	PAL	2/10/2017	PUQ
	dyamics, primary production, zooplankton ecology, Adelie	C-019				
	penguin demography, microbial and biogeochemical processes	Deborah Steinberg				
	in the Antarctic marine ecosystem.	C-020				
		Doug Martinson C-021				
		Ari Friedlander				
		C-024				
		Hugh Ducklow				
LMG17-02	Antarctic Data Repository for LMG17-01 This multi-platform field study will investigate the impact of coastal	C-045 Josh Kohut	2/14/2017	PUQ	2/18/2017	PAL
	physical processes, e.g., tides, currents, upwelling events, and sea ice, on Adelie penguin foraging ecology in the vicinity of Palmer Deep off Anvers Island, WAP.	B-005	3/15/2017	POQ PAL	3/21/2017	PUQ
	The goals of this project are to (1) Determine whether sub-polar WAP fjords are regionally significant hotspots of productivity and biodiversityl (2) Elucidate and model the physical, biological, and chemical processes that interact in these fjords to enhance productivity adn biodiversity; and (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.	Craig Smith B-212				
	Antarctic Data Repository for LMG17-02					
LMG17-03	PALMER TURNOVER (XBT NB)	James Girton O-226	3/25/2017 4/5/2017	PUQ PAL	3/29/2017 4/9/2017	PAL PUQ
	This project seeks to enhance the capability to observe the ocean's transport and storage of heat and carbon dioxide and the response of these processes to climate change with autonomous technology be deploying a Liquid Robotics Wave Glider SV3 fro five months to measure surface wave, temperature and salinity, upper-oceans current, barometric pressure, and winds.					
	To understand the physiological and biochemical mechanisms that	Kristin O'Brien	4/13/2017	PUQ	4/19/2017	PAL

	Last Update	e: 8/27/2024				
CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
	(1) Characterization of the diurnal, and seasonal variability in the CO2 system on the West Antarctic Peninsula continental shelf from autonomous moored platforms. (2) Identification of the dominant physical and biological controls on seasonal CO2 system seasonal variability (i.e., the balance between: photosynthesis, respiration, air-sea CO2 exchange, freshwater dilution, onshore intrusion of upper circumpolar deep water, calcification, and carbonate mineral dissolution) and determination of the annual source/sink status with respect to atmospheric CO2.	Elizabeth Shadwick				
LMG17-05	Antarctic Data Repository for LMG17-04 DRY DOCK	N/A	6/8/2017	TAL	7/2/2017	TAL
LMG17-06	Compare miRNA regulation in 1) Antarctic vs. temperate fish to learn the roles of miRNA regulation in adaptation to constant cold; and in 2) bottom-dwelling, red-blooded Nototheniods vs. high buoyancy white-blooded icefish to understand miRNA regulation after loss of hemoglobin genes and red blood cells, enlarged heart and vasculature, and increased buoyancy due to decreased bone mineralization and increased lipid deposition.	John Postlethwait B-029	7/12/2017 7/29/2017	PUQ PAL	7/16/2017 8/9/2017	PAL PUQ
LMG17-07	Antarctic Data Repository for LMG17-06 Compare miRNA regulation in 1) Antarctic vs. temperate fish to learn the roles of miRNA regulation in adaptation to constant cold; and in 2) bottom-dwelling, red-blooded Nototheniods vs. high buoyancy white-blooded icefish to understand miRNA regulation after loss of hemoglobin genes and red blood cells, enlarged heart and vasculature, and increased buoyancy due to decreased bone mineralization and increased lipid deposition.	John Postlethwait B-029	8/12/17 8/29/17	PUQ PAL	8/16/17 9/2/17	PUQ PAL
LMG17-08	Antarctic Data Repository for LMG17-07 This study seeks to better understand the spatial distribution of mixing rates that drive the MOC in this region, especially in the currently under-sampled surface boundary layer (upper 1000 meters).	Louis St. Laurent O-204	9/8/2017	PUQ	9/18/2017	PUQ
LMG17-09	Antarctic Data Repository for LMG17-08 XBT/XCTD Palmer Station Opening Antarctic Data Repository for LMG17-09	N/A	10/2/2017 10/13/2017	PUQ PAL	10/06/2017 10/17/2017	PAL PUQ
LMG17-10	Palmer Science Movements/Shirreff Opening (XBT) Antarctic Data Repository for LMG17-10	N/A	10/21/2017 10/31/2017	PUQ PAL	10/26/2017 11/04/2017	PAL PUQ
LMG17-11	Characterization of the diurnal, and seasonal variability in the CO2 system on the West Antarctic Peninsula continental shelf from autonomous moored platforms.	Elizabeth Shadwick O-270	11/14/2017 11/25/2017	PUQ PAL	11/18/2017 11/29/2017	PAL PUQ
LMG17-12	Antarctic Data Repository for LMG17-11 LTER SITE VISIT	N/A	12/9/2017	PUQ	12/13/2017	PAL
LMG18-01	Antarctic Data Repository for LMG17-12 LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.	William Fraser C-013 Oscar Schofield C-019 Deborah Steinberg C-020 Doug Martinson C-021 Ari Friendlaender C-024 Hugh Ducklow C-045	12/16/2017 12/30/2017 2/8/2018	PAL PUQ PAL	12/20/2017 1/3/2018 2/12/2018	PUQ PAL PUQ
LMG18-02	Antarctic Data Repository for LMG18-01 New constraints on post glacial rebound and Holocene environmental history along the northern Antarctic Peninsula from raised beaches. Foraging behavior and ecological role of the least studied Antarctic krill predator, the Antarctic minke whale.	Alexander Simms G-412 Ari Friedlaender B-206	2/16/2018 3/16/2018	PUQ PAL	2/20/2018 3/21/2018	PAL PUQ

Antarctic krill predator, the Antarctic minke whale.	B-206				
Antarctic Data Repository for LMG18-02					
Palmer Station Turnover	N/A	3/24/2018	PUQ	3/30/2018	PAL
		4/4/2018	PAL	4/9/2018	PUQ
Antarctic Data Repository for LMG18-03					
To understand the molecular and physiological capacities of	William Detrich	4/13/2018	PUQ	4/19/2018	PAL
Antarctic notothenioid fishes to acclimatize and/or adapt to rapid oceanic warming through analysis of their underlying genomic and	B-037	5/9/2018	PAL	5/15/2018	PUQ
transcriptomic "toolkits."					
	Antarctic krill predator, the Antarctic minke whale. <u>Antarctic Data Repository for LMG18-02</u> Palmer Station Turnover <u>Antarctic Data Repository for LMG18-03</u> To understand the molecular and physiological capacities of Antarctic notothenioid fishes to acclimatize and/or adapt to rapid oceanic warming through analysis of their underlying genomic and	Antarctic Data Repository for LMG18-02       N/A         Palmer Station Turnover       N/A         Antarctic Data Repository for LMG18-03       William Detrich         To understand the molecular and physiological capacities of       William Detrich         Antarctic notothenioid fishes to acclimatize and/or adapt to rapid       B-037	Antarctic krill predator, the Antarctic minke whale.       B-206         Antarctic Data Repository for LMG18-02       N/A         Palmer Station Turnover       N/A         Antarctic Data Repository for LMG18-03       4/4/2018         To understand the molecular and physiological capacities of Antarctic notothenioid fishes to acclimatize and/or adapt to rapid oceanic warming through analysis of their underlying genomic and       William Detrich B-037       4/13/2018	Antarctic krill predator, the Antarctic minke whale.       B-206         Antarctic Data Repository for LMG18-02       N/A         Palmer Station Turnover       N/A         Antarctic Data Repository for LMG18-03       Y/A         To understand the molecular and physiological capacities of Antarctic notothenioid fishes to acclimatize and/or adapt to rapid oceanic warming through analysis of their underlying genomic and       William Detrich         B-037       5/9/2018       PAL	Antarctic krill predator, the Antarctic minke whale.       B-206       Image: Constraint of the constraint

Investigate the ability of the logard seal, an apper predator, to present the mean privorment using two complements. Advanced Data Records for LMG184.02         Database B232         Database B232           LMG18-05         To understand the molecular and physiological experimes. Advanced Data Records for LMG184.05         Science Case B232         Science Case B232         PUQ         Science Case B232           LMG18-06         CPEX PERIOD         N/A         6/15/2018         PUQ         7/26/2018           LMG18-07         OPEX PERIOD         N/A         6/23/2018         PUQ         9/25/2018           LMG18-08         Partner Station Opening (XBT)         N/A         10/21/2018         PUQ         10/21/2018           LMG18-08         Partner Station Opening (XBT)         N/A         10/21/2018         PUQ         10/21/2018           LMG18-08         Partner Station Opening (XBT)         N/A         10/21/2018         PUQ         10/21/2018           LMG18-00         Prescence team Will apply prev. highly sensitive techniques using high-mase-recolution mass spectrometry to undestand the code processor team Will apply prev. highly sensitive techniques using high-mase-recolution mass spectrometry to undestand the code processor team Will apply prev. highly sensitive techniques using bigh-mase-recolution mass spectrometry to undestand the code processor team Will apply prev. highly sensitive techniques using bigh-mase-recolution mass spectrometry to undestand the code processor team Will apply prev. highly sensitiv	PORT		Arrival	ORT	rture	Departure	Pls	CRUISE by NAME	CRUISE #
Instant         Instant <t< td=""><td></td><td></td><td>Antvar</td><td></td><td>liture</td><td>Departure</td><td></td><td>-</td><td></td></t<>			Antvar		liture	Departure		-	
LM018-03       To understand the molecular and physiological capacities of application to the indication contendino files to a colonizate and/or dapt to the underlying genomic and transcriptions: "Control to the underlying genomic and transcriptions: "Control to the UNR (NL8-5)       William Detrich       S/19/2018       PUQ       S/22/2018         LM018-00       PDEN PERIOD       NIA       6/23/2018       PUQ       7/28/2018         LM018-00       PEN PERIOD       NIA       10/22/2018       PUQ       10/26/2018         LM018-00       PEN PERIOD       NIA       10/22/2018       PUQ       10/26/2018         LM018-00       Peliner Station Opening (XBT)       NIA       10/22/2018       PUQ       10/26/2018         LM018-00       Peliner Station Opening (XBT)       NIA       10/22/2018       PUQ       10/26/2018         LM018-00       Peliner Station Opening (XBT)       NIA       10/22/2018       PUQ       10/22/2018         LM018-00       Peliner Station Opening (XBT)       NIA       10/22/2018       PUQ       11/12/2018         LM018-01       The science learn will apply now, highly sensitive techniques using highly make and 10 to quarity and undersland the contractions the two was and 10 to quarity and undersland the contraction between UVR, ROS, ox/pEns, and canton cycling.       Bodd       12/12/2018       PUQ       12/12/2018         LM018-01								cope with a changing environment using two complementary research themes that integrates cells to ecosystems.	
Antarctic nothenioid fishes to acclimatize and/or adapt to rapid normic vaming through analysis of thru underlying genomic and transcriptomic 'bookliss'.PAL6/19/2018LMG18-00CPEN PERIODNIA6/23/2016PUQ7/26/2018LMG18-00CPEN PERIODNIA7/27/2018PUQ9/25/2018LMG18-08Palmer Station Opening (XBT)NIA10/21/2018PUQ10/82/2018LMG18-08Palmer Station Opening (XBT)NIA10/21/2018PUQ10/82/2018LMG18-08Palmer Station Opening (XBT)NIA10/21/2018PUQ10/82/2018LMG18-09Palmer Science NovementsNIA10/21/2018PUQ10/22/2018LMG18-01Repository for LMG18-01NIA10/21/2018PUQ10/22/2018LMG18-01Repository for LMG18-02NIA10/21/2018PUQ11/17/2018LMG18-10The objectives of this work are 1) to quantify and understand ingti-mass-esolution mass spectrometry to understand the providing binasse interestion settlem desition, and carbon cycling, (XBT)66/2012/12/2018PUQ12/12/2018LMG18-11The objectives of this work are 1) to quantify and understand ingti-mass-esolution family, might sensitive techniques using and the Antarctic kull Repository for LMG18-01George Watters12/12/2018PUQ12/12/2018LMG18-01LLMG18-01LLMG18-01Coloremot/Understand the phenology and variability in sea long dyamics, primary production, zooplankton ecology, Adele pengula dyamics, primary production, zooplankton ecology, Adele pengula opengraphy, microbila and bi	PAL	3	5/23/2018	PUQ	2018	5/19/2018	William Detrich		LMG18-05
Antencic Data Repeatery for LMG18-05         NA         6/23/2016         PUQ         7/26/2018           LMG18-00         OPEN PERIOD         N/A         6/23/2016         PUQ         9/25/2018           LMG18-07         OPEN PERIOD         N/A         10/22/2018         PUQ         9/25/2018           LMG18-08         Paimer Station Opening (XBT)         N/A         10/22/2018         PUQ         10/6/2018           LMG18-09         Paimer Science Movements         N/A         10/21/2018         PUQ         10/25/2018           LMG18-09         Paimer Science fam Wall paphy new, highly sensitive techniques using high-mass-resolution mass spectrometry to understand the conconcitons between UVF, ROS, oxytipins, and carbon cycling, (XBT)         Bogamin Van Mooy         11/17/2018         PUQ         11/17/2018           LMG18-10         The solence fam Wall Rophy new, highly sensitive techniques using high-mass-resolution mass spectrometry to understand the concolicions between UVF, ROS, oxytipins, and carbon cycling, (XBT)         Boga         11/17/2018         PUQ         12/12/2018           LMG18-10         The objectives of this work are 110 patentify and understand the concolicions between UVF, ROS, oxytipins, and carbon cycling.         Boga         12/17/2016         PUQ         12/12/2018           LMG18-11         The objectives of this work are 110 patentify and understand time trace concolicial Resposatory for LMG18-11	PUQ	-						Antarctic notothenioid fishes to acclimatize and/or adapt to rapid oceanic warming through analysis of their underlying genomic and	
LMG18-06         OPEN PERIOD         NA         6/22/2018         PU0         7/28/2018           LMG18-07         OPEN PERIOD         NA         7/27/2018         PU0         9/25/2018           LMG18-08         Paimer Station Opening (XBT)         NA         10/2/2018         PU0         10/6/2018           LMG18-08         Paimer Station Opening (XBT)         NA         10/2/2018         PU0         10/6/2018           LMG18-08         Paimer Station Opening (XBT)         NA         10/2/2018         PU0         10/6/2018           LMG18-08         Paimer Station Opening (XBT)         N/A         10/2/10/16         PU0         11/7/2018           LMG18-01         The science team will apply new, highly sensitive techniques using (XBT)         Benjamin Van Mooy         11/7/2018         PU0         11/1/2018           LMG18-01         The science team will apply new, highly sensitive techniques using (XBT)         Benjamin Van Mooy         11/7/2018         PU0         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018         12/12/2018									
LMG18-08     Palmer Station Opening (XBT)     N/A     10/22/08     PUQ PAL     10/6/2018       Antarcic Data Repository for LMG18-08     N/A     10/21/2018     PUQ PAL     10/25/2018       LMG18-09     Palmer Science Movements     N/A     10/21/2018     PUQ PAL     10/25/2018       LMG18-00     Palmer Science Movements     N/A     10/21/2018     PUQ PAL     10/25/2018       LMG18-10     The science team will apply new, highly sensitive techniques using (XBT)     Benjamin Van Mooy     11/7/2018     PUQ PAL     11/11/2018       LMG18-10     The science team will apply new, highly sensitive techniques using (XBT)     Benjamin Van Mooy     11/7/2018     PUQ PAL     11/11/2018       LMG18-11     The objectives of this work are 10 upuntify and understand interactions between VRII, Rift pre 2/10 estimate kill flux through and standing biomass in areas where Kill, predators, and the fishery overlap in space and time; and 31 to identify usualianable harvest strategies for the krill fishery. 2: De stimate kill flux through and standing biomass in areas where kill, predators, and the fishery overlap in space and time; and 31 to identify usualianable harvest strategies for the krill fishery. Palmer Cargo; Shireff Opening     William Fraser C-013     12/30/2018     PUQ 2/3/2019     1/3/2019       LMG19-01     LTER-Long-Term Ecological Research To occument/Understand the phenology and variability in sea ice dyanics, primary production, zooplanktion ecology. Adelie penguin demorpathy. microbial and biogenchemical processes in the Antarctic Data Repo	PUQ	3	7/26/2018	PUQ	2018	6/23/2018	N/A		LMG18-06
Antarctic Data Repository for LMG18-08     N/A     10/13/2018     PAL     10/17/2018       LMG18-09     Paimer Science Movements     N/A     10/21/2018     PAL     10/25/2018       LMG18-10     The science team will apply new. highly sensitive techniques using connections between UVR, ROS, oxplipins, and carbon cycling. (XBT)     Benjamin Van Mooy     11/7/2018     PUQ     11/11/2018       LMG18-11     The science team will apply new. highly sensitive techniques using connections between UVR, ROS, oxplipins, and carbon cycling. (XBT)     Benjamin Van Mooy     11/7/2018     PUQ     11/11/2018       LMG18-11     The objectives of this work are 10 up quantify and understand interactons between kill, kill predators (e.g., penguins and seals), and financy overlapin space and time; and 30 to identify sustainable harvest strategies for the kill fishery. 2 Destimate kill fill kurtugh and selonding biomass in areas where kill, predators, and the fishery down and arbitip in sea ice divergin i space and time; and 30 to identify sustainable harvest strategies for the kill fishery. Palmer Cargo; Shirreff Opening     William Fraser     2/8/2019     PUQ     1/3/2019       LMG19-01     LTER-Long-Term Ecological Research from Coursent/understand the phenology and variability in sea ice dyamics, primary production, zooplanktin ecology, Adelie penguin Opena and time; and 30 to identify sustainable harvest strategies for the kill fishery. 2 Descination for LMG19-01     2/16/2019     PUQ     1/3/2019       LMG19-02     To reconstruct the record of Quademary sea-level changes within the South Shetland Islands     Alexande	PUQ	3	9/25/2018	PUQ	2018	7/27/2018	N/A	OPEN PERIOD	LMG18-07
LMG18-09       Palmer Science Movements       N/A       10/21/2018       PUQ       10/25/2018         Antarctic Data Repository for LMG18-09       The science team will apply new, highly sensitive techniques using high-mass-resolution mass spectrometry to understand the science team will apply new, highly and understand the science team will apply new, highly and understand the science team will apply new, highly and understand the the objectives of this work are 1) to quantify and understand miteractions between kill, kill predators (e.g., penguins and seals), and the Antarctic Mill fishery; 10 estimate kill flux through and standing biomass in areas where kill, predators, and the fishery ording in space and time; and 3) to identify sustainable harvest strategies for the kill fishery; 10 estimate kill flux through and standing biomass in areas where kill, predators, and the fishery ordiuctin, zopplankton ecology, Adeige penguin demography, microbial and biogeochemical processes in the Antarctic Data Repository for LMG18-11       William Fraser       12/30/2018       PUQ       1/3/2019         LMG19-01       L1ER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice and time; and 3) to identify sustainable harvest strategies for the kill fishery; 10 updutotin, zopplankton ecology, Adeige penguin demography, microbial and biogeochemical processes in the Antarctic Data Repository for LMG19-01       William Fraser C-013       12/30/2018       PUQ       1/3/2019         LMG19-02       To reconstruct the record of Quaternary sea-level changes within sea ice asite of new technological tools to measure the underwater Ail Friedlaender E-206       2/16/2019       PUQ       2/21/2019       2/21/201	PAL PUQ						N/A	Palmer Station Opening (XBT)	LMG18-08
Antarctic Data Repository for LMG18-09     10/30/2018     PAL     11/3/2018       LMG18-10     The science team will apply new, highly sensitive techniques using bingh-mass-resolution mass spectrometry to understand the connections between UVR, ROS, oxylipins, and carbon cycling. (KBT)     PUQ     11/17/2018     PUQ     11/17/2018       LMG18-11     The objectives of this work are 1) to quantify and understand interactions between UVR, ROS, oxylipins, and carbon cycling. (KBT)     George Watters     12/7/2018     PUQ     12/12/2018       LMG18-11     The objectives of this work are 1) to quantify and understand interactions between kill, krill predators (e.g., penguins and seals), and the Antarctic krill fishery. 2) to estimate krill flux through and standing biomass in areas where Kill, predators, and the fishery overfap in space and time; and 3) to identify sustainable harvest strategies for the krill fishery. Palme Cargo: Shirreff Opening     William Fraser     12/30/2018     PUQ     1/3/2019       LMG19-01     LERL-ton-The Ecological Research     William Fraser     12/30/2018     PUQ     1/3/2019       To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adele pengling     William Fraser     12/30/2018     PUQ     1/3/2019       C-03     To reconstruct the record of Quaternary sea-level changes within the sea ice habitat.     Akarander Simms     2/16/2019     PUQ     2/12/2019       C-024     High Duckiow     C-035     3/15/19     PUQ     2/21/2019									
LMG18-10       The science team will apply new, highly sensitive techniques using the phanes-resolution mass spectrometry to understand the connections between UVR, ROS, oxylipins, and carbon cycling. (XBT)       Benjamin Van Mooy       11/17/2018       PAL       11/17/2018         LMG18-10       The objectives of this work are 1) to quantify and understand the interactions between kill, kill predators (e.g., penguins and seals), and the Antarctic kill fishery. 2) to estimate kill flux through and standing biomass in areas where kill, predators, and the fishery overlap in space and time; and 3) to identify sustainable harvest strategies for the krill fishery. Palmer Cargo; Shirreff Opening       William Fraser       12/30/2018       PUQ       1/3/2019         LMG19-01       LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogenchemical processes in the Antarctic marine ecosystem.       William Fraser       12/30/2018       PUQ       1/3/2019         LMG19-01       LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogenchemical processes in the Antarctic marine ecosystem.       William Fraser       12/30/2018       PUQ       1/3/2019         LMG19-02       To reconstruct the record of Quatemary sea-level changes within the South Sheltand Islands       Assander Simms       2/16/2019       2/12/2019       3/11/19       PAL       2/21/2019       3/21/2019 <td>PAL PUQ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>N/A</td> <td>Palmer Science Movements</td> <td>LMG18-09</td>	PAL PUQ						N/A	Palmer Science Movements	LMG18-09
high-mass-resolution mass spectrometry to understand the connections between UVR, ROS, oxylipins, and carbon cycling.       B-022       11/28/2018       PAL       12/2/2018         Antarctic Data Repository for LMG18-10       E-062       12/7/2018       PUQ       12/7/2018         LMG18-11       The objectives of this work are 1) to quantify and understand interactions between kill, kill predators, end the fishery civerlap in space and time; and 3) to identify sustainable harvest strategies for the kill fishery. Pathere Cargo, Shirreff Opening       George Watters       12/7/2018       PUQ       12/7/2018         LMG19-01       LTER-Long-Teme Ecological Research       William Fraser       12/8/2019       PAL       12/9/2019         LMG19-01       LTER-Long-Teme Ecological Research       William Fraser       12/8/2019       PAL       12/9/2019         Antarctic Data Repository for LMG19-01       C-020       Oscar Schofield       C-013       0scar Schofield       2/16/2019       PAL       12/2/2019         Antarctic Data Repository for LMG19-01       Alteractic marine ecosystem.       Alteractic Simms       2/16/2019       PUQ       2/21/2019       2/21/2019         Or occonstruct the record of Quatemary sea-level changes within the South Shetland Islands       Alteractic Data Repository for LMG19-01       Alteractic Data Repository for LMG19-01       Alteractic Data Repository for LMG19-01       2/21/2019       3/15/19       PAL <td>PAL</td> <td>8</td> <td>11/11/2018</td> <td></td> <td>2018</td> <td>11/7/2019</td> <td>Ponjamin Van Mooy</td> <td></td> <td>LMC18 10</td>	PAL	8	11/11/2018		2018	11/7/2019	Ponjamin Van Mooy		LMC18 10
LMG18-11       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. Palmer Cargo; Shirreff Opening       George Watters       12/16/2018       PUQ       12/12/2018         Antarctic Data Repository for LMG18-11       Milliam Fraser       12/30/2018       PUQ       1/3/2019         LMG19-01       LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.       William Fraser       12/30/2018       PUQ       1/3/2019         Antarctic Data Repository for LMG19-01       Ville Martine Cological Research       William Fraser       12/8/2019       PAL       2/8/2019       2/12/2019         Oscar Schofield       C-013       Oscar Schofield       C-021       PAL       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/12/2019       2/16/2019       2/16/201	PUQ						-	high-mass-resolution mass spectrometry to understand the connections between UVR, ROS, oxylipins, and carbon cycling. (XBT)	LING TO-TO
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. Palmer Cargo; Shirreff OpeningB-00612/16/2018PAL12/20/2018Antarctic Data Repository for LMG18-11Antarctic Data Repository for LMG18-11William Fraser C-01312/30/2018PUQ 2/12/20191/3/2019LMG19-01LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.William Fraser C-01312/30/2018 2/8/2019PUQ PAL1/3/2019 2/12/2019LMG19-02Antarctic Data Repository for LMG19-01Alexander Simms G-4024 Hugh Ducklow C-40452/16/2019 Alexander Simms B-406PUQ 2/16/20192/21/2019 3/15/192/21/2019 PALLMG19-02To use a suite of new technological tools to measure the underwate behavior of the whales and better understand how they exploit the sea-ice habitat.Alexander Simms B-2062/16/2019 B-206PUQ Altice and the fishery 3/15/192/21/2019 PALThe objectives of this work are 1) to quantify and understand interactions between 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 fisher	PAL	<u></u>	12/12/2018		2018	12/7/2019	Goorgo Watters		LMC18 11
LMG19-01LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.William Fraser C-01312/30/2018 2/8/2019PUQ PAL1/3/2019 2/12/2019UMG19-02Antarctic Data Repository for LMG19-01Oscar Schofield C-020 Doug Martinson C-024 Hugh Ducktow C-0452/16/2019PUQ 2/12/20192/21/2019LMG19-02To reconstruct the record of Quaternary sea-level changes within the South Shetland IslandsAlexander Simms G-4122/16/2019 3/15/19PUQ PAL2/21/2019 3/21/2019LMG19-02To use a suite of new technological tools to measure the underwater behavior of the whales and better understand how they exploit the sea-ice habitat.Alexander Simms G-4122/16/2019 3/15/19PUQ PAL2/21/2019 3/21/2019To use a suite of new technological tools to measure the underwater behavior of the whales and better understand how they exploit the sea-ice habitat.Ari Friedlaender B-206Ari Friedlaender B-206To use a suite 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.George Watters B-006Image: Sealer Se	PUQ						-	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	LING TO-TT
LMG19-01LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.William Fraser C-01312/30/2018 2/8/2019PUQ PAL1/3/2019 2/12/2019UMG19-02Antarctic Data Repository for LMG19-01Oscar Schofield C-020 								Antarctic Data Repository for LMG18-11	
dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the Antarctic marine ecosystem.Oscar Schofield C-019 Deborah Steinberg C-020 Doug Martinson C-021 Ari Friedlaender C-024 Ari Friedlaender C-024 Ari Friedlaender C-024 Ari Friedlaender C-024 Ari Friedlaender C-024 Arier Schoffeld Schoffeld C-024 Arier Schoffeld C-024 Arier Schoffeld C-025PUQ 2/21/2019 2/12/2019 2/21/2019 2/21/2019 3/21/2019LMG19-02 LMG19-02 To use a suite of new technological tools to measure the underwater behavior of the whales and better understand how they exploit the sea-ice habitat. 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.Second Schoffeld C-024 Ari Friedlaender B-006Second Schoffeld C-024 Arie Friedlaender B-006Second Schoffeld C-024 Arie Friedlaender B-006 <td>PAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>William Fraser</td> <td>LTER-Long-Term Ecological Research</td> <td>LMG19-01</td>	PAL						William Fraser	LTER-Long-Term Ecological Research	LMG19-01
LMG19-02Deborah Steinberg C-020 Doug Martinson C-021 Ari Friedlaender C-024 Hugh Ducklow C-045PUQ 2/16/2019 PLQ 3/15/19PUQ 2/21/2019 3/21/2019LMG19-02To reconstruct the record of Quatemary sea-level changes within the South Shetland IslandsAlexander Simms G-4122/16/2019 3/15/19PUQ 2/21/2019 3/21/2019LMG19-02To use a suite of new technological tools to measure the underwater behavior of the whales and better understand how they exploit the sea-ice habitat.Ari Friedlaender B-2062/16/2019 3/15/19PUQ 2/21/2019The 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.George Watters B-006Image: Strategies for the krill fishery.	PUQ	)	2/12/2019	PAL	2019	2/8/2019	Oscar Schofield	dyamics, primary production, zooplankton ecology, Adelie penguin demography, microbial and biogeochemical processes in the	
Hugh Ducklow C-045Hugh Ducklow C-045Image: Construct the second of Quaternary sea-level changes within the South Shetland IslandsAlexander Simms G-4122/16/2019 3/15/19PUQ PAL2/21/2019 3/21/2019LMG19-02To reconstruct the record of Quaternary sea-level changes within the South Shetland IslandsAlexander Simms G-4122/16/2019 3/15/19PUQ PAL2/21/2019 3/21/20192/21/2019 3/21/2019To use a suite of new technological tools to measure the underwater behavior of the whales and better understand how they exploit the sea-ice habitat.Ari Friedlaender B-206For use a suite of new technological tools to measure the underwater B-206Ari Friedlaender B-206Image: Construct the sea-ice habitat.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.Image: Construct the sea-ice habitat.Image: Construct the sea-ice habitat.Image: Construct the sea-ice habitat.							C-020 Doug Martinson C-021		
LMG19-02To reconstruct the record of Quaternary sea-level changes within the South Shetland IslandsAlexander Simms G-4122/16/2019 3/15/19PUQ PAL2/21/2019 3/21/2019To use a suite of new technological tools to measure the underwater behavior of the whales and better understand how they exploit the 							Hugh Ducklow		
the South Shetland IslandsG-4123/15/19PAL3/21/2019To use a suite of new technological tools to measure the underwater behavior of the whales and better understand how they exploit the sea-ice habitat.Ari Friedlaender B-206Souther SeaSouther SeaSout	PAL	_	2/21/2010		2010	2/16/2010	Alexander Simme		LMC10.02
behavior of the whales and better understand how they exploit the sea-ice habitat.B-206The 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.B-206	PUQ								LING 19-02
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.								behavior of the whales and better understand how they exploit the	
							_	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.	
LMG19-03 Palmer Turnover N/A 3/25/2019 PUQ 3/29/2019	PAL						N/A		LMG19-03
LMG19-04     Investigate the ability of the leopard seal, an apex predator, to cope with a changing environment using two complementary research themes that integrates cells to ecosystems.     Daniel Costa     4/14/2019     PUQ     4/18/2019	PUQ PAL PUQ	Э	4/18/2019	PUQ	2019	4/14/2019		with a changing environment using two complementary research	LMG19-04
To quantiatively document macroalgal communities at multiple sites between Anvers and Adelaide islands using a combination of diving, video surveys, and algal collections.								To quantiatively document macroalgal communities at multiple sites between Anvers and Adelaide islands using a combination of diving,	
Antarctic Data Repository for LMG19-04								Antarctic Data Repository for LMG19-04	

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG19-05A	Transit	N/A	6/6/2019	PUQ	6/13/2019	TAL
LMG19-05B	Drydock	N/A	6/13/2019	TAL	7/10/2019	TAL
LMG19-05C	Transit	N/A	7/10/2019	TAL	7/18/2019	PUQ
LMG19-06	OPEN PERIOD	N/A	7/18/2019	PUQ	8/5/2019	PUQ
LMG19-07	OPEN PERIOD	N/A	8/6/2019	PUQ	9/25/2019	PUQ
LMG19-08	Palmer Opening (XBT)	N/A	10/2/2019	PUQ	10/6/2019	PAL
			10/13/2018	PAL	10/17/2019	PUQ
	Antarctic Data Repository for LMG19-08					
LMG19-09	Palmer Science Movements	Gail Scowcraft	10/21/2019	PUQ	10/25/2019	PAL
		Y-604	10/31/2019	PAL	11/4/2019	PUQ
	Advance knowledge and understanding about using telepresence					
	communication technology at high latitudes. It will inform the design of Antarctic research broader impact activities and increase					
	Antarctic scientists' understanding of how to successfully broadcast					
	from sea and the field.					
	This project continues the field development of an autonomous	James Girton				
	surface vehicle (https://www.liquid-robotics.com/wave-	O-202				
	glider/overview/) to better measure and study these processes in					
	the remote Southern Ocean, where continuous timeseries					
	measurements are otherwise very difficult to obtain.					
LMC10.40	Antarctic Data Repository for LMG19-09	Mara Walashum	11/08/0040		11/16/0010	
LMG19-10	This project has two goals. The first is to investigate the responses of Antarctic krill Euphasia superba to flow and chemical stimuli	Marc Weissburg	11/08/2019		11/16/2019	PAL PUQ
	indicating food and predation risk, the interaction of these cues, and	B-198	11/21/2019	PAL	11/25/2019	FUQ
	how krill responses to these cues depend on the photic					
	environment. This project will will determine threshold responses,					
	the ability of krill to orient to horizontal and vertical flows, whether					
	chemical cues polarize responses to flow and whether this differs					
	with attractive vs. aversive cues, and how these responses are					
	affected by light intensity. (XBT)					
	Antarctic Data Repository for LMG19-10					
LMG19-11	The objectives of this work are 1) to quantify and understand	George Watters	12/2/2019	PUQ	12/8/2019	PAL
	interactions between krill, krill predators (e.g., penguins and seals),	B-006	12/16/2019	PAL	12/20/2019	PUQ
	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.					
	The first is to investigate the responses of Antarctic krill Euphasia	Mara Waisahura				
	superba to flow and chemical stimuli indicating food and predation	Marc Weissburg B-198				
	risk, the interaction of these ues, and how krill responses to these	D-130				
	cues depend on the photic environment. This project will will					
	determine threshold responses, the ability of krill to orient to					
	horizontal and vertical flows, whether chemical cues polarize					
	responses to flow and whether this differs with attractive vs.					
	aversive cues, and how these responses are affected by light					
	intensity.					
	To fulfill NOAA's mandate of providing scientific advice that	Douglas Krause				
	supports United States interests related to resource management by	X-591				
	the Commission for the Conservation of Antarctic Marine Living					
	Resources (CCAMLR)					
LMG20-01	Antarctic Data Repository for LMG19-11 LTER-Long-Term Ecological Research (XBT)	Josh Kohut	12/20/2010	PUQ	1/3/2020	PAL
LIVIG20-01	L I ER-Long- I erm Ecological Research (XBI) This project will integrate a modeling and field program that will	Josh Konut B-005	12/30/2019 2/8/2020	PUQ PAL	1/3/2020 2/12/2020	PAL PUQ
	target the processes responsible for transporting and concentrating	D-000	21012020	FAL	211212020	FUQ
	phytoplankton and krill biomass to known penguin foraging					
	locations.					
		William Fraser				
	To document and understand the phenology and variability in water					
	To document and understand the phenology and variability in water mass characteristics, transport, sea ice dynamics, primary	C-013				
		C-013 Oscar Schofield				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the	Oscar Schofield C-019				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the	Oscar Schofield C-019				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal	Oscar Schofield C-019				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the Antarctic marine ecosystem, including identifying the mechanisms of	Oscar Schofield C-019 Deborah Steinberg				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the Antarctic marine ecosystem, including identifying the mechanisms of	Oscar Schofield C-019 Deborah Steinberg C-020				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the Antarctic marine ecosystem, including identifying the mechanisms of	Oscar Schofield C-019 Deborah Steinberg C-020 Douglas Martinson				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the Antarctic marine ecosystem, including identifying the mechanisms of	Oscar Schofield C-019 Deborah Steinberg C-020 Douglas Martinson C-021				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the Antarctic marine ecosystem, including identifying the mechanisms of	Oscar Schofield C-019 Deborah Steinberg C-020 Douglas Martinson C-021 Ari Friedlaender				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the Antarctic marine ecosystem, including identifying the mechanisms of	Oscar Schofield C-019 Deborah Steinberg C-020 Douglas Martinson C-021 Ari Friedlaender C-024				
	mass characteristics, transport, sea ice dynamics, primary production, zooplankton ecology, seabird and marine mammal demography, and microbial and biogeochemical processes in the Antarctic marine ecosystem, including identifying the mechanisms of	Oscar Schofield C-019 Deborah Steinberg C-020 Douglas Martinson C-021 Ari Friedlaender C-024 Hugh Ducklow C-045				

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
	This project continues a long-term study of ocean properties and	Teri Chereskin	Departure	FORT	Antvar	FORT
	variability in the Antarcitc Circumpolar Current (ACC) by repeat	0-317				
	transects across the Drake Passage from Punta Arenas, Chile to	0.011				
	Palmer Station. This project will provide information about long-term					
	trends and variability in Southern Ocean fronts, surface water mass					
	properties, heat, and salinity budgets. This study will contribute to					
	understanding the ACC response to atmospheric forcing on climate-					
	relevant time scales, and its role in driving the Southern Ocean's					
	meridional overturning circulation.					
	This project's objective is (1) to maintain a global 5x5 degree array	Shaun Dolk				
	of 1,250 ARGOS-tracked surface drifting buoys to meet the need for	X-592				
	an accurate and globally dense set of in-situ observations of mixed- layer currents, sea-surfance temperature, atmospheric pressure					
	winds, and salinity; and (2) to provide a data processing system for					
	scientific use of these data.					
	Antarctic Data Repository for LMG20-01					
LMG20-02	This group will undertake a systematic survey and study to	Zicheng Yu	2/16/2020	PUQ	2/25/2020	PAL
2	reconstruct ecosystem and climate change for the coastal	G-094	3/14/2020	PAL	3/21/2020	PUQ
	low-elevation areas on the western Antarctic Peninsula (WAP).	0.004				
	The objectives of this work are 1) to quantify and understand	George Watters				
	interactions between krill, krill predators (e.g., penguins and seals),	B-006				
	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					
	This project will compare adaptations, genome sequences, and	Nicholas Teets				
	population characteristics of four midge species that span an	B-046				
	environmental gradient from sub-Antarctic to Antarctic habitats.	5-040				
	This project continues the field development of an autonomous	James Girton				
	surface vehicle (https://www.liquid-robotics.com/wave-	O-202				
	glider/overview/) to better measure and study these processes in					
	the remote Southern Ocean, where continuous timeseries					
	measurements are otherwise very difficult to obtain.					
		Deuglas Krauss				
	To fulfill NOAA's mandate of providing scientific advice that	Douglas Krause				
	To fulfill NOAA's mandate of providing scientific advice that supports United States interests related to resource management by					
	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					
	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).					
LMG20-03	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		6/3/2020	PUQ	6/10/2020	PAL
LMG20-03	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). <u>Antarctic Data Repository for LMG20-02</u>	X-591	6/3/2020 6/17/2020	PUQ PAL	6/10/2020 6/21/2020	PAL PUQ
LMG20-03	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). <u>Antarctic Data Repository for LMG20-02</u>	X-591				
LMG20-03 LMG20-04	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT)	X-591				
LMG20-04 LMG20-05	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u>	/X-591 N/A	6/17/2020 6/27/2020 7/20/2020	PAL PUQ PUQ	6/21/2020	PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD	N/A	6/17/2020 6/27/2020	PAL PUQ	6/21/2020 7/19/2020	PUQ PUQ
LMG20-04 LMG20-05	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD	N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020	PAL PUQ PUQ	6/21/2020 7/19/2020 8/19/2020	PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020	PAL PUQ PUQ PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020	PUQ PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020	PAL PUQ PUQ PUQ PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020	PUQ PUQ PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020	PAL PUQ PUQ PUQ PUQ PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020	PUQ PUQ PUQ PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD PAImer Station Opening	N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020	PAL PUQ PUQ PUQ PUQ PUQ PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 11/26/2020	PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-10	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). Antarctic Data Repository for LMG20-02 Palmer Turnover (XBT) Antarctic Data Repository for LMG20-03 OPEN PERIOD OPEN PERIOD Palmer Station Opening Antarctic Data Repository for LMG20-10	N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20	PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PAL	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 11/26/2020 12/4/20 12/29/20	PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-10	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). Antarctic Data Repository for LMG20-02 Palmer Turnover (XBT) Antarctic Data Repository for LMG20-03 OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20	PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 11/26/2020 12/4/20 12/29/20 2/2/2021	PUQ PUQ PUQ PUQ PUQ PUQ PUQ PAL
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-10	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). Antarctic Data Repository for LMG20-02 Palmer Turnover (XBT) Antarctic Data Repository for LMG20-03 OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 1/2/2021 2/3/2021	PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PAL	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 11/26/2020 12/4/20 12/29/20	PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-10	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). Antarctic Data Repository for LMG20-02 Palmer Turnover (XBT) Antarctic Data Repository for LMG20-03 OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 1/2/2021	PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ PAL PUQ PUQ PUQ	6/21/2020 7/19/2020 9/24/2020 9/30/2020 10/4/2020 10/4/2020 12/4/20 12/29/20 2/2/2021 3/18/2021 4/29/2021	PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-10 LMG21-01 LMG21-02	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). Antarctic Data Repository for LMG20-02 Palmer Turnover (XBT) Antarctic Data Repository for LMG20-03 OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 1/2/2021 2/3/2021 3/19/2021 5/1/2021	PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ	6/21/2020 7/19/2020 9/24/2020 9/30/2020 10/4/2020 10/4/2020 12/4/20 12/29/20 2/2/2021 3/18/2021 4/29/2021 5/11/2021	PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-10 LMG21-01 LMG21-02 LMG21-03	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD Palmer Station Opening <u>Antarctic Data Repository for LMG20-10</u> OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 1/2/2021 2/3/2021 3/19/2021	PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ PAL PUQ PUQ PUQ	6/21/2020 7/19/2020 9/24/2020 9/30/2020 10/4/2020 10/4/2020 12/4/20 12/29/20 2/2/2021 3/18/2021 4/29/2021	PUQ
LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-10 LMG21-01 LMG21-01 LMG21-02 LMG21-03 LMG21-04	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD OPEN PERIOD Palmer Station Opening <u>Antarctic Data Repository for LMG20-10</u> OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 1/2/2021 2/3/2021 3/19/2021 5/1/2021 5/24/2021	PAL PUQ PUQ PUQ PUQ PUQ PUQ PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 12/4/20 12/29/20 2/2/2021 3/18/2021 4/29/2021 5/11/2021 5/29/2021	PUQ
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LMG20-04 LMG20-05 LMG20-06 LMG20-07 LMG20-08 LMG20-09 LMG20-09 LMG21-01 LMG21-01 LMG21-02 LMG21-04 LMG21-04 LMG21-05 LMG21-06 LMG21-07	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 12/25/20 1/2/2021 2/3/2021 3/19/2021 5/1/2021 5/24/2021 6/4/2021 6/20/2021 7/4/2021	PAL PUQ PUQ PUQ PUQ PUQ PUQ PAL PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 12/4/20 12/29/20 12/29/20 2/2/2021 3/18/2021 5/11/2021 5/11/2021 6/19/2021 8/19/2021	PUQ
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LMG20-04 LMG20-05 LMG20-07 LMG20-08 LMG20-09 LMG20-09 LMG20-10 LMG21-01 LMG21-02 LMG21-03 LMG21-04 LMG21-04 LMG21-05 LMG21-06 LMG21-07 LMG21-08 LMG21-09	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). Antarctic Data Repository for LMG20-02 Palmer Turnover (XBT) Antarctic Data Repository for LMG20-03 OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 1/2/2021 2/3/2021 3/19/2021 5/1/2021 6/4/2021 6/20/2021 7/4/2021 8/20/2021 9/3/2021	PAL           PUQ           PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 12/4/20 12/29/20 2/2/2021 3/18/2021 4/29/2021 5/29/2021 6/19/2021 9/2/2021 9/25/2021	PUQ
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LMG20-04 LMG20-05 LMG20-07 LMG20-08 LMG20-09 LMG20-09 LMG20-10 LMG21-01 LMG21-02 LMG21-03 LMG21-04 LMG21-04 LMG21-05 LMG21-06 LMG21-07 LMG21-08 LMG21-09	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). <u>Antarctic Data Repository for LMG20-02</u> Palmer Turnover (XBT) <u>Antarctic Data Repository for LMG20-03</u> OPEN PERIOD OPEN PERIOD	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	6/17/2020 6/27/2020 7/20/2020 8/20/2020 9/25/2020 10/1/2020 10/5/2020 11/27/20 12/25/20 1/2/2021 2/3/2021 5/1/2021 5/1/2021 6/4/2021 6/20/2021 7/4/2021 8/20/2021 9/3/2021 10/4/2021	PAL           PUQ           PUQ	6/21/2020 7/19/2020 8/19/2020 9/24/2020 9/30/2020 10/4/2020 12/4/20 12/29/20 2/2/2021 3/18/2021 5/11/2021 5/29/2021 7/1/2021 8/19/2021 9/2/2021 9/25/2021 10/11/2021	PUQ
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CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG21-12	Pier Construction Support; NOAA	George Watters	2/28/2022	PUQ	3/8/2022	PAL
	The objectives of this work are 1) to quantify and understand	B-006	3/10/2022	PAL	3/16/2022	PUQ
	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.					
	Antarctic Data Repository for LMG21-12					
LMG22-01	OPEN PERIOD	N/A	3/18/2022	PUQ	3/24/2022	PUQ
LMG22-02	Pier Construction Support; Moffat (XBT)	Carlos Moffat	3/27/2022	PUQ	4/3/2022	PAL
		C-021	4/6/2022	PAL	4/13/2022	PUQ
	This project, with full support from ASC Marine Staff, will deploy					
	three moorings and recover one mooring.					
LMG22-03	Antarctic Data Repository for LMG22-02 OPEN PERIOD	N1/A	4/14/2022	PUQ	4/20/2022	PUQ
		N/A				POQ
LIVIG22-04	Palmer Station Turnover	Ari Friedlaender	4/21/2022 5/6/2022	PUQ PAL	4/28/2022 5/11/2022	PAL
	This project will deploy two acoustic moorings to record sound	C-024	5/0/2022	FAL	5/11/2022	FUQ
	impacts prior to, during and after Palmer Station pier construction.					
	Antarctic Data Repository for LMG22-04					
LMG22-05	OPEN PERIOD	N/A	5/12/2022	PUQ	5/14/2022	PUQ
LMG22-05	Pier Construction Support	N/A N/A	5/15/2022	PUQ	5/22/2022	POQ
		IN/A	5/26/2022		5/22/2022 5/30/2022	PAL PUQ
LMG22-07	OPEN PERIOD	N/A	5/26/2022	PAL PUQ	6/3/2022	PUQ
MG22-08a	Transit	N/A	6/6/2022	PUQ	6/13/2022	TAL
MG22-08b	Drydock Troppit	N/A	6/13/2022	TAL	7/12/2022	TAL
MG22-08c		N/A	7/12/2022	PUQ	7/18/2022	PUQ
LMG22-09	OPEN PERIOD	N/A	7/22/2022	PUQ	8/15/2022	PUQ
_MG22-10	OPEN PERIOD	N/A	8/16/2022	PUQ	9/27/2022	PUQ
_MG22-11	Palmer Station Opening (XBT)	Marc Weissburg	10/2/2022	PUQ	10/7/2022	PAL
	This project has two goals. The first is to investigate the responses	B-198	10/15/20	PAL	10/20/2022	PUQ
	of Antarctic krill Euphasia superba to flow and chemical stimuli					
	indicating food and predation risk, the interaction of these cues, and					
	how krill responses to these cues depend on the photic					
	environment. This project will will determine threshold responses,					
	the ability of krill to orient to horizontal and vertical flows, whether					
	chemical cues polarize responses to flow and whether this differs					
	with attractive vs. aversive cues, and how these responses are					
	affected by light intensity. (XBT)					
	To fulfill NOAA's mandate of providing scientific advice that					
	supports United States interests related to resource management by	Douglas Krause				
	the Commission for the Conservation of Antarctic Marine Living	X-591				
	Resources (CCAMLR).					
	Antarctic Data Repository for LMG22-11					
LMG22-12	OPEN PERIOD	N/A	10/24/2022	PUQ	11/23/2022	PUQ
	Palmer Science Movements	Marc Weissburg	11/28/2022	PUQ	12/4/2022	PAL
-10022-10	Pier Construction Support	B-198	12/13/2022	POQ	12/17/2022	PUQ
	This project has two goals. The first is to investigate the responses	D-130	12/10/2022	I AL	12/11/2022	1002
	of Antarctic krill Euphasia superba to flow and chemical stimuli					
	indicating food and predation risk, the interaction of these cues, and					
	how krill responses to these cues depend on the photic					
	environment. This project will will determine threshold responses,					
	the ability of krill to orient to horizontal and vertical flows, whether					
	chemical cues polarize responses to flow and whether this differs					
	with attractive vs. aversive cues, and how these responses are					
	affected by light intensity.					
	The objectives of this work are 1) to quantify and understand	George Watters				
	interactions between krill, krill predators (e.g., penguins and seals),	B-006				
	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.					
	, ,					
_MG23-01	LTER-Long-Term Ecological Research (XBT)	George Watters	12/23/2022	PUQ	12/26/2022	PAL
	The objectives of this work are 1) to quantify and understand	B-006	2/2/2023	PAL	2/6/2023	PUQ
			_,_,_,_,_,			
	interactions between krill krill predators (e.g. penguins and seals)					
	interactions between krill, krill predators (e.g., penguins and seals), and the Antarctic krill fisherv: 2) to estimate krill flux through and	Benjamin Van Mooy				
	and the Antarctic krill fishery; 2) to estimate krill flux through and	C-045				
	and the Antarctic krill fishery; 2) to estimate krill flux through and standing biomass in areas where krill, predators, and the fishery	C-045 Ari Friedlander				
	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	C-045 Ari Friedlander C-024				
	and the Antarctic krill fishery; 2) to estimate krill flux through and standing biomass in areas where krill, predators, and the fishery	C-045 Ari Friedlander				

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
		Deborah Steinberg				
		C-020				
		Oscar Schofield				
		C-019				
		Megan Cimino C-013				
	Aims to improve understanding of the dynamics of freshwater	Carlos Moffat				
	, , , , , , , , , , , , , , , , , , ,	O-263				
	deployment to measure a specific, previously identified example of a					
	coastal freshwater-driven current, the Antarctic Peninsula Coastal					
	Current.					
		Jeff Bowman				
	To address the sensitive and ecological role of the Western Antarctic Peninsula (WAP) microbial loop through a series of	B-285				
	grazing experiments to assess bacteria mortality by bacterivorous					
	protists and bacteriophage. These experiments will be coupled with					
	observations of ecophysiology to identify how specific Antarctic					
	heterotrophic bacterial taxa respond to the physiological and					
	ecological stress of the WAP environment.					
LMG23-02	Palmer Science Movements	Nicholas Tests	2/10/2023	PUQ	2/14/2023	PAL
LIVIG23-02	This project will compare adaptations, genome sequences, and	Nicholas Teets B-046	3/16/2023	POQ PAL	3/20/2023	PAL
	population characteristics of four midge species that span an	D-040	0,10,2020	1712	0/20/2020	1 OQ
	environmental gradient from sub-Antarctic to Antarctic habitats.					
	This project will integrate a modeling and field program that will	Josh Kohut				
	target the processes responsible for transporting and concentrating phytoplankton and krill biomass to known penguin foraging	B-005				
	locations.					
	One glider from the Moffat project, O-263 event was successfully	Carlos Moffat				
	recovered. Two gliders were recovered from around Low and	O-263				
	Hoseason Island for the NOAA, Watters B-006 group.	George Watters B-006				
	Antarctic Data Repository for LMG23-02	B-000				
LMG23-03	Palmer Station Closing	N/A	3/26/2023	PUQ	3/31/2023	PAL
	Antarctic Data Repository for LMG23-03		4/7/2023	PAL	4/11/2023	PUQ
LMG23-04	Palmer Science Movements	Kristin O'Brien	4/15/2023	PUQ	4/19/2023	PAL
	To understand the physiological and biochemical mechanisms that	B-036	4/28/2023	PAL	5/2/2023	PUQ
	define thermal tolerance of Antarctic notothenioids. Antarctic Data Repository for LMG23-04					
LMG23-05	Palmer Science Movements	Kim Bernard	5/6/2023	PUQ	5/12/2023	PAL
2020 00	The research is centered on two overarching objectives: (1) to	B-459	6/22/2023	PAL	6/26/2023	PUQ
	experimentally determine the effect of diet (herbivory versus	Luis Huckstadt				
	carnivory) on the physiology and condition of juvenile krill in autumn	B-038				
	and winter, and (2) to investigate year-to-year variability in seasonal changes in physiology and condition of AC1 krill in situ from autumn					
	through winter.					
	To understand the physiological and biochemical mechanisms that	Kristin O'Brien				
	define thermal tolerance of Antarctic notothenioids.	B-036				
	Antarctic Data Repository for LMG23-05		7/5/0000	DU O	7/04/0000	DUC
LMG23-06	Palmer Science Movements Ocean warming in the western Antarctic Peninsula and Scotia Sea	Richard Veit	7/5/2023	PUQ	7/31/2023	PUQ
	winter is among the highest worldwide. The goal of researchers on	B-319				
	this project is to quantify the impact of ocean warming on seabirds.					
	The objectives are to 1) identify changes in krill, bird, and mammal					
	bundance that have occurred since the 1990s; 2) identify pairings of					
	species that benefit each other in searching for prey; and 3) make predictions about how these changes in species pairing might					
	continue given predicted future changes in climate.					
	Antarctic Data Repository for LMG23-06					
LMG23-07	OPEN PERIOD	N/A	8/10/2023	PUQ	8/30/2023	PUQ
LMG23-08	OPEN PERIOD	N/A	8/31/2023	PUQ	9/28/2023	PUQ

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG23-09	Palmer Station Opening (XBT) This project services and calibrates the automated radionuclide air particulate (RN73 RASA) monitoring system in the International Monitoring Station (IMS) building (Terra Lab) at Palmer Station. The IMS continuously collects and automatically analyzes daily air samples for radiation. The collected filter-media samples from the radionuclide aerosol sampler/analyzer (RASA) are sent to Vienna, Austria quarterly for archiving. Filter samples are shipped, upon request, to various laboratories elsewhere in the world.	Bouvard Hosticka T-998	10/5/2023 10/20/2023	PUQ PAL	10/11/2023 10/24/2023	PAL PUQ
	This project continues a long-term study of ocean properties and variability in the Antarcitc Circumpolar Current (ACC) by repeat transects across the Drake Passage from Punta Arenas, Chile to Palmer Station. This project will provide information about long-term trends and variability in Southern Ocean fronts, surface water mass properties, heat, and salinity budgets. This study will contribute to understanding the ACC response to atmospheric forcing on climate-relevant time scales, and its role in driving the Southern Ocean's meridional overturning circulation.					
	On frequent crossings of the Drake Passage by the US Antarctic vessel ARSV Laurence M. Gould (LMG), a range of underway measurements are taken. These data represent one of the few repeating annual shipboard measurements in the Southern Ocean, with close to two decades of data now available. The primary science objectives of this project are to continue to analyze the Drake Passage time series. In collaboration with Chereskin (O-317-L), this project continues a long-term study of ocean properties and variability in the Antarctic Circumpolar Current (ACC) utilizing repeat transects across the Drake Passage from Punta Arenas, Chile to Palmer Station. This aspect of the project measures the seasonal to interannual variability of upper-ocean temperature and geostrophic transport through the Drake Passage with closely spaced eXpendable BathyThermograph (XBT) deployments.	Janet Sprintall O-260				
	Processes driving spatial and temporal variability of surface pCO2 in the Drake Passage. Antarctic Data Repository for LMG23-09	David Munro O-214				
LMG23-10	Palmer Science Opening 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. To address the sensitive and ecological role of the Western Antarctic Peninsula (WAP) microbial loop through a series of	Megan Cimino C-013 Deborah Steinberg C-020 Benjamin Van Mooy C-045 Jeff Bowman B-285	10/30/2023 11/10/2023	PUQ PAL	11/4/2023 11/14/2023	PAL PUQ
	grazing experiments to assess bacteria mortality by bacterivorous protists and bacteriophage. These experiments will be coupled with observations of ecophysiology to identify how specific Antarctic heterotrophic bacterial taxa respond to the physiological and ecological stress of the WAP environment.					
	This project operates, maintains, upgrades, calibrates, and services the joint U.S. Comprehensive Nuclear Test Ban Treaty (CTBT) Infrasound Array at Windless Bight. Windless Bight's location on the Ross Ice Shelf is unique for its low wind levels, which makes infrasound detection possible. Infrasound can detect volcanic eruptions, winds over distant mountain ranges, large storms at sea, auroral and meteor events, earthquakes, and avalanches, as well as human-caused events, like large explosions, at great distances from the sound-producing events. Detection of events occurring worldwide are routinely made at the Windless Bight site. <u>Antarctic Data Repository for LMG23-10</u>					
LMG23-11	OPEN PERIOD	N/A	11/15/2023	PUQ	11/23/2023	PUQ
LMG23-12	Palmer Station Support; NOAA 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.	George Watters B-006	11/24/2023 12/6/2023	PUQ PAL	12/1/2023 12/10/2023	PAL PUQ
LMG24-01	Antarctic Data Repository for LMG23-12 LTER	Megan Cimino	12/20/2023	PUQ	12/24/2023	PAL

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
	predictive understanding of ecosystem changes in response to	Oscar Schofield	1/26/2024	PAL	1/31/2024	PUQ
	disturbances spanning long-term, subdecadal, and higher-frequency	C-019				
	"pulses" driven by a range of processes, including long-term climate	Deborah Steinberg				
	warming, natural climate variability, and storms.	C-020				
		Carlos Moffat				
		C-021				
		Ari Friedlander				
		C-024				
		Benjamin Van Mooy				
		C-045				
	To collect observations of the partial pressure of carbon dioxide (pCO2) in the surface ocean needed to assess the current state and	David Munro O-214				
	long-term change of the flux of carbon dioxide (CO2) between the atmosphere and ocean.					
	This work aims to analyze the Drake Passage time series and	Teri Chereskin				
	describe and relate the seasonal and long-term ocean energy	0-317				
	distribution to wing, buoyancy, and topographic forcing and sinks.	Janet Sprintall				
	Also to describe and relate seasonal and long-term changes in the	O-260				
	Antarctic Circumpolar Current (ACC) fronts, water masses, and					
	upwelling to biogeochemical and climate variability.					
LMG24-02	OPEN PERIOD	N/A	2/7/2024	PUQ	2/29/2024	PUQ
MG24-03	OPEN PERIOD	N/A	3/1/2024	PUQ	3/26/2024	PUQ
LMG24-04	Palmer Station Turnover	David Munro	3/31/2024	PUQ	4/4/2024	PAL
	To collect observations of the partial pressure of carbon dioxide	O-214	4/11/2024	PAL	4/15/2024	PUQ
	(pCO2) in the surface ocean needed to assess the current state and					
	long-term change of the flux of carbon dioxide (CO2) between the					
	atmosphere and ocean.					
	This work aims to analyze the Drake Passage time series and	Teri Chereskin				
	describe and relate the seasonal and long-term ocean energy	0-317				
	distribution to wing, buoyancy, and topographic forcing and sinks.	Janet Sprintall				
	Also to describe and relate seasonal and long-term changes in the	O-260				
	Antarctic Circumpolar Current (ACC) fronts, water masses, and					
	upwelling to biogeochemical and climate variability.					
_MG24-05	OPEN PERIOD	N/A	4/16/2024	PUQ	4/30/2024	PUQ
_MG24-06	OPEN PERIOD	N/A	5/1/2024	PUQ	5/31/2024	PUQ
		N/A	6/1/2024	PUQ	7/2/2024	USTP
_MG24-07	TRANSIT TO DRY DOCK	IN/A	0/1/2024	FUQ	1/2/2024	0315