

RV LAURENCE M. GOULD Cruise History

Port Key:

COPA=Copacabana Field Camp, Antarctica; CS=Cape Sherriff, Antarctica; DEC=Deception Island, Antarctica; ESP=Esperanza Base, Antarctica; FCH=Fourchon, LA; KGI=King George Island, Antarctica; LIV=Livingston Island, Antarctica; OHG=O'Higgins Base, Antarctica; PAL=Palmer Station, Antarctica; PAN=Panama; PMN=Peterman Island, Antarctica; PNT=Puerto Natales, Chile; PUQ=Punta Arenas, Chile; SNO=Snow Island, Antarctica; ROT=Rothera Base, Antarctica; SEY=Seymour Island, Antarctica; TAL=Talcahuano, Chile; , Antarctica; USTPA=Tampa, FL; VRN=Vernadsky Station, Antarctica

Contacting Principal Investigators:

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

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

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG 98-1t	Transit to Punta Arenas	N/A	12/25/1997	FCH	1/16/1998	PUQ
	Antarctic Data Repository for LMG9801T					
LMG 98-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Maria Vernet	1/22/1998	PUQ	2/20/1998	PUQ
	An Ice-Dominated Environment. (LTER)	S-016				
	http://www.icess.ucsb.edu	Langdon Quetin &				
		Robin Ross				
		S-028				
		Ray Smith				
		S-032				
		Dave Karl				
	Antarctic Data Repository for LMG98-01	S-046				
LMG 98-2	Holocene Paleoenvironmental Change Along the Antarctic	Eugene Domack	2/25/1998	PUQ	3/21/1998	PUQ
	Peninsula: a Test of the Polar/Bi-Polar Signal					
	Antarctic Data Repository for LMG98-02	GO-072-O	2/22//222		4/0//000	
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
1110.00 :	Antarctic Data Repository for LMG98-03A			N 1/A		11/4
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	Transit to PUQ	N/A	8/29/1998	TAL	9/4/1998	PUQ
LMG 98-8	Palmer Station Support/turnover	N/A	9/10/1998	PUQ	9/14/1998	PAL
1110 00 01			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
LMG 98-9	Photochemical and Optical Properties of Antarctic Waters in	Kannath Mannan	10/3/1998 10/12/1998	PAL PUQ	10/8/1998 10/15/1998	PUQ Weddell Sea
LIVIG 96-9	response to changing UV-B fluxes.	Kenneth Mopper BO-002-O	11/16/1998	PAL	11/20/1998	PUQ
	New approaches to measuring and understanding the effects of	Patrick Neale	11/10/1990	FAL	11/20/1996	FUQ
		BO-010-O				
	Oltraviolet Natifation on Phytotosynthesis by Antarctic Phytopiankton.	BO-010-O				
	Antonotic Data Democitant for LMC00, 00					
LMC 00 40	Antarctic Data Repository for LMG98-09	lan Dalaial	44/04/4000	DUO	40/07/4000	DUO
LMG 98-10	Collaborative Research: Scotia Arc GPS Project (SCARP)	lan Dalziel	11/24/1998	PUQ	12/27/1998	PUQ
	Automotic Data Danasitana fari MOOO 40	GO-087-O				
1110 00 4	Antarctic Data Repository for LMG98-10	William Fraser	4/0/4000	DUO	4/0/4000	DAI
LMG 99-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	BP-013-N	1/2/1999	PUQ	1/6/1999	PAL
	An Ice-Dominated Environment. (LTER) http://www.icess.ucsb.edu	Maria Vernet	1/6/1999	PAL	2/12/1999	PAL
	http://www.icess.ucsb.edu	BP-016-N				
		Doug Martinson				
		BP-021				
		Langdon Quetin &				
		Robin Ross			I	
		BP-028-N			I	
		Ray Smith			I	
		BP-032-N			I	
	Antonido Boto Bono diametro IMCCC Cd	Dave Karl	0/4///000	DAI	0/40/4005	DUIG
1110 00 0	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			I	
	Antarctic Data Repository for LMG99-02					

CDUICE #	CDINCE by NAME	Die	Donorturo	DORT	Awrited	DODT
CRUISE # LMG 99-3	CRUISE by NAME Evolution of an Oxygen-binding Hemoprotein in a Unique	PIs Bill Detrich	Departure 3/21/1999	PORT PUQ	Arrival 3/24/1999	PORT PAL
LIVIG 99-3	Environment: Myoglobin in the Hemoglobinless Antarctic Icefishes	BO-037-O	4/16/1999	PAL	4/20/1999	PUQ
		20 00. 0	.,		.,_0,.000	
	Structure, Function, and Expression of Cold-Adapted Tubulins and	Bruce Sidell				
	Microtubule-Dependent Motors from Antarctic Fishes	BO-036-O				
	Characterization of Indigenous and Introduced Toxic Phytoplankton	Donald Anderson				
	in Antarctica	BO-300-O				
	NOAA Grant	Martin Visbeck				
	Palmer Station support operations were performed as well and	NOAA Science Grant				
	included a technical site visit by Biospherical Instruments.					
	, '					
1110 00 4	Antarctic Data Repository for LMG99-03		4/07/4000	DUIG	4/00/4000	
LMG 99-4	Continuation of LMG99-3	Bruce Sidell	4/27/1999	PUQ	4/30/1999	PAL
		BO-036-O Bill Detrich	5/30/1999 5/31/1999	PAL COPA	5/31/1999 6/3/1999	COPA PUQ
	Antarctic Data Repository for LMG99-04	BO-037-O	3/3 1/ 1999	COPA	0/3/1999	FUQ
LMG 99-5	Continuation of LMG99-4	Bruce Sidell	6/6/1999	PUQ	06/09.99	PAL
		BO-036-O	6/29/1999	PAL	7/2/1999	PUQ
		Bill Detrich				
	Antarctic Data Repository for LMG99-05	BO-037-O	<u> </u>		<u> </u>	
LMG 99-6	Palmer Station Support	N/A	7/9/1999	PUQ	7/13/1999	PAL
1112 55 =		ļ	7/26/1999	PAL	7/30/1999	PUQ
LMG 99-7	Transit to Talcahuano, Chile for Maintenance Period	N/A	8/1/1999	PUQ	8/7/1999	TAL
LMG 99-8	Shipboard Acoustic Doppler Current Profiling on R/V NATHANIEL	Teri Chereskin	9/4/1999 9/14/1999	TAL PUQ	9/10/1999 9/20/1999	PUQ PAL
FINIQ 99-0	B. PALMER and LAURENCE M. GOULD	OO-315-O	ə/ 1 4 / 1999	רטע	312UI 1999	FAL
	PAL Station Support/Turnover & ADCP Shakedown Cruise	30-310-0	9/23/1999	PAL	9/28/1999	PUQ
	Antarctic Data Repository for LMG99-08		0/20/1000	. ,	0/20/1000	. 00
LMG 99-8A	Open PeriodVessel Science Inspection	N/A	9/28/1999	PUQ	N/A	N/A
			10/9/1999	PUQ		
LMG 99-8B	Palmer Station Turnover and Copacabana Field Camp Opening	N/A	10/9/1999	PUQ	10/13/1999	COPA
			10/14/1999	COPA	10/15/1999	PAL
LMC 00 0	Influence of Consequence Delegie and Bouthin	Kan Omith	10/17/1999	PAL	10/21/1999	PUQ
LMG 99-9	Influence of Seasonal Ice Cover on Pelagic and Benthic Communities: Long Time Series Study	Ken Smith BO-050-O	10/25/1999 10/29/1999	PUQ PAL	10/29/1999 11/15/1999	PAL PUQ
	Antarctic Data Repository for LMG99-09	BO-030-O	10/29/1999	FAL	11/13/1999	FUQ
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	12/8/1999	PAL	12/12/1999	PUQ
		Craig Smith				
		BO-303-O				
	Mooring Recovery (Karl)	Dave Karl				
1140 00 4	Antarctic Data Repository for LMG99-10	BP-046-O	40/47/4000	DUIG	40/04/4000	00
LMG 00-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem An Ice-Dominated Environment. (LTER)	Bill Fraser BP-013-O	12/17/1999 12/21/1999	PUQ CS	12/21/1999 12/22/1999	CS PAL
	http://www.icess.ucsb.edu	Maria Vernet	12/21/1999	PAL	1/26/2000	PAL
	nttp://www.iocss.ucsb.edu	BP-016-O	1/28/2000	PAL	2/1/2000	PUQ
	Call at Cape Shirreff Field Camp	Doug Martinson	1,20,200		2, ., 2000	
	1	BP-021-O			1	
		Langdon Quetin]	
		Robin Ross]	
		BP-028-O			1	
		Ray Smith			1	
		BP-032-O			1	
	Anteretic Data Danasitany for LMCCC 04	Dave Karl			1	
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
LIVIG UU-Z	Communities: Long Time Series Study.	BO-050-O	2/5/2000	COPA	2/9/2000	PAL
	Planktonic Invertebrate Larvae and Biogeography of the Antarctic	Rudolf Scheltema	2/10/2000	PAL	2/11/2000	DEC
		BO-281-O	2/22/2000	DEC	2/23/2000	PAL
	Shipboard Acoustic Doppler Current Profiling on R/V NATHANIEL	Teri Chereskin				
	B. PALMER and LAURENCE M. GOULD	OO-315-O			1	
	Also delivered construction materials to Copa Field Camp				1	
	Antarctic Data Repository for LMG00-02	<u> </u>	1000		1	
LMG 00-3	Impact and Fate of Bloom Material on the Sea Floor	Dave DeMaster	3/2/2000	PUQ	3/6/2000	PAL
	Macring Receivers (Kerl)	BO-303-O	3/7/2000	PAL	3/19/2000	PAL
	Mooring Recovery (Karl) Antarctic Data Repository for LMG00-03	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
LIVIG UU-SA	Chilean Bases in the Antarctic Peninsula Region (Weins).	GO-097-O	4/3/2000	POQ	4/2/2000	PUQ
	NOAA-CORC Southern Ocean Modern Observations (Visbeck)	Martin Visbeck	-7.572000	i AL	7/2 1/2000	. 50
	Antarctic Data Repository for LMG00-03A	00-124-0]	
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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
	Object and According Department of Departmen	GO-281-O	6/10/2000	PAL	6/15/2000	PUQ
	Shipboard Acoustic Doppler Current Profiling on R/V NATHANIEL B. PALMER AND LAURENCE M. GOULD	Teri Chereskin OO-315-O				
	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	000.00				
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
LMG 00-6D	Antarctic Data Repository for LMG00-06C Palmer Station Support	N/A	7/25/2000 8/1/2000	PAL PUQ	7/29/2000 8/5/2000	DEC PAL
LIVIG 00-0D	Antarctic Data Repository for LMG00-06C	N/A	8/8/2000	PAL	8/12/2000	PUQ
LMG 00-7	Talcahuano Dry Dock	N/A	8/15/2000	PUQ	8/21/2000	TAL
	ĺ	I	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
	Natural Product Drugs from Cold-Water Marine Organisms	BO-282-O	10/9/2000	PAL	10/13/2000	PUQ
LMC 00 0	Antarctic Data Repository for LMG00-08A	C. Omith	10/17/2000	סנום	10/04/0000	CODA
LMG 00-9	Bentho-Pelagic Coupling on the West Antarctic Peninsula Shelf: The Impact and Fate of Bloom Material on the Shelf Floor	C. Smith BO-303-O	10/17/2000 10/21/2000	PUQ COPA	10/21/2000 10/22/2000	COPA PAL
	The impact and Fate of Bloom Material on the Shell Floor	Dave DeMaster	10/21/2000	PAL	11/4/2000	PAL
		BO-313-O	11/4/2000	PAL	11/4/2000	PUQ
	Penguin-Krill-Ice Interactions: The Impact of Environmental	Wayne Trivelpiece	11/1/2000	1712	11/0/2000	100
	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
LMG00-11	Antarctic Data Repository for LMG00-10 Global Climate Change and the Evolutionary Ecology of Antarctic	Richard Aronson	12/8/2000	PUQ	12/12/2000	SEY
LIVIGUU-11	Mollusks in the Late Holocene	GO-065-O	12/17/2000	SEY	12/12/2000	PAL
	Antarctic Data Repository for LMG00-11	00-000-0	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				
		Dave Karl				
	Antarctic Data Repository for LMG01-01	BP-046-O				
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
	Autoria Bata Barasitan (144004 00	Dave DeMaster	3/10/2001	PAL	3/14/2001	PUQ
LMC 04 2	Antarctic Data Repository for LMG01-02	BO-303-O	2/40/2004	סנום	2/22/22/2	KCI
LMG 01-3	Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC): Circulation and Water Property Evolution	Robert Beardsley OG-231-O	3/18/2001 3/23/2001	PUQ KGI	3/22/2001 3/24/2001	KGI PAL
	SO GLOBEC: Mesoscale Circulation, Tides, and Mixing	OG-231-O Laurence Padman	3/23/2001	PAL	3/24/2001 4/8/2001	PAL
	OC OLOBEO. IVIESOSCAIE OII GUIALIOII, TIUES, ATIU IVIIAITIY	OG-238-O	4/9/2001	PAL	4/13/2001	PUQ
	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	John Hildebrand	., 5, 250 1	. , , _	.,	. 54
	West Antarctic Project Area	BG-239-O				
	http://www.ccpo.odu.edu/Research/globec menu.html					
	AMS Radiocarbon Chronolgy of Glacier Fluctuations in the South	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	ĺ				

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
		BG-237-O	6/1/2001	LIV	6/5/2001	PUQ
	SO GLOBEC: Krill Physiology and Fish Ecology	Jose Torres				
	SO GLOBEC: Water-Column Phytoplankton Primary Productivity	BG-245-O				
	SO GLOBEC. Water-Column Phytopiankton Philiary Productivity	Maria Vernet BG-246-O				
	SO GLOBEC: Krill Distributions, Physiology and Predation;	Meng Zhou				
	Copepod Prey Abundance	BG-248-O				
	http://www.ccpo.odu.edu/Research/globec_menu.html					
	Livingston Island Field Camp Pickup of Brenda Hall	Brenda Hall				
		IO-196-L				
1.00.04.5	Antarctic Data Repository for LMG01-04		0/44/0004	DUIG	0/40/0004	DAI
LMG 01-5	Proteins of Oxygen-Binding & Energy Metabolism in Muscles of Antarctic Fishes: Evolutionary Adjustments to Life at Cold	Bruce Sidell BG-036-O	6/11/2001 6/18/2001	PUQ PAL	6/16/2001 6/21/2001	PAL PAL
	Temperatures	BG-036-O	7/11/2001	PAL	7/15/2001	PUQ
	Structure, Function, and Expression of Tubulins, Globins, and	Bill Detrich	7711/2001	171	7710/2001	100
	Microtubule-Dependent Motors from Cold-Adapted Antarctic Fishes	BG-037-O				
	Antarctic Data Repository for LMG01-05					
LMG 01-6	SO GLOBEC: Foraging Ecology of Crabeater Seals	Dan Costa	7/21/2001	PUQ	7/25/2001	PAL
		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 SO GLOBEC: Winter Distribution and Activities of Sea-ice Microbial	BG-234-O				
	Communities in the Western Antarctic Peninsula	Chris Fritsen BG-235-O				
	SO GLOBEC: Krill Age and Dietary History	Rodger Harvey				
	Co Clobed. Will Ago and Blotally Fliotory	BG-237-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					
LMG 01-7	Antarctic Data Repository for LMG01-06 Maintenance Period and ADCP Sea Trials	N/A	9/1/2001	At PUQ	9/14/2001	At PUQ
LMG 01-7	Palmer Station Support	N/A	9/20/2001	PUQ	9/14/2001	PAL
LIVIG 01-6	Antarctic Data Repository for LMG01-08	N/A	9/20/2001	PAL	9/23/2001	PUQ
LMG01-08A	Penguin-Krill-Ice Interactions: The Impact of Environmental	Wayne Trivelpiece	10/7/2001	PUQ	10/11/2001	COPA
	Variability on Penguin Demography (COPA)	BO-040-O	10/11/2001	COPA	10/13/2001	PAL
			10/16/2001	PAL	10/16/2001	Racer Rock
			10/16/2001	Racer Rock	10/17/2001	COPA
LM004 00D	Antarctic Data Repository for LMG01-08A Palmer Station Support #2	N1/A	10/17/2001	COPA	10/21/2001	PUQ
LMG01-08B	• • • • • • • • • • • • • • • • • • • •	N/A	10/27/2001	PUQ PAL	11/5/2001	PAL PUQ
Maintenance	Antarctic Data Repository for LMG01-08B Maintenance Period in Punta Arenas, Chile	N/A	11/8/2001 11/13/2001	At PUQ	11/12/2001 12/1/2001	At PUQ
LMG01-9	Dynamics of Predator-Prey Behavior in the Antarctic Ocean	Richard Veit	12/2/2001	PUQ	12/1/2001	/ (1 OQ
50 ; 0	- j	BO-023-O	12/23/2001	PAL	12/28/2001	PUQ
	Dispersal of Planktonic Invertebrate Larvae and the Biogeography	Rudy Scheltema				
	of the Antarctic Benthos	BO-281-O				
1,140,000,1	Antarctic Data Repository for LMG01-09	Dill Francis	1/0/0000	DUIC	1/6/0000	DAI
LMG02-1	Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)		1/2/2002	PUQ PAI	1/6/2002 1/27/2002	PAL PAI
	http://www.icess.ucsb.edu	BP-013-O Maria Vernet	1/7/2002 1/28/2002	PAL PAL	2/1/2002	PAL PUQ
	<u></u>	BP-016-O	1,20,2002	IAL	2, 1,2002	, 00
		Doug Martinson				
		BP-021-O				
		Langdon Quetin				
		Robin Ross				
		BP-028-O				
		Ray Smith				
		BP-032-O Dave Karl				
	Antarctic Data Repository for LMG02-01	BP-046-O				
LMG02-1A	Southern Ocean Global Ocean Ecosystems Dynamics (SO	Bob Beardsley	1/6/2002	PUQ	3/2/2002	PUQ
GLOBEC	GLOBEC) : Circulation and Water Property Evolution	OG-231-O				
Mooring	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	John Hildebrand				
Recovery &	West Antarctic Project Area	BG-239-O				
Redeployment	http://www.ccpo.odu.edu/Research/globec menu.html					
	International Whaling Consortium	Deb Thiele				
I	Antarctic Data Repository for LMG02-01A	ľ	I	I		

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-O	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-O				
	SO GLOBEC: Krill Distribution, Physiology, and Predations; Copepod Prey Abundance	Kendra Daly BG-236-O				
	SO GLOBEC: Krill Age and Dietary History	Rodger Harvey				
	30 GLOBEO. Killi Age and Dietally History	BG-237-O				
	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-O				
	SO GLOBEC: Krill Distributions, Physiology and Predation;	Meng Zhou				
	Copepod Prey Abundance	BG-248-O				
	http://www.ccpo.odu.edu/Research/globec_menu.html					
1116000	Antarctic Data Repository for LMG02-03		5/05/2222	DI:0	E/04/2225	T. ()
LMG02-4	Dry Dock and Maintenance Period	NA	5/25/2002	PUQ	5/31/2002	TAL
LMG 02-4A	Palmer Station Shuttle	NA	6/25/2002 7/5/2002	TAL PUQ	6/30/2002 7/10/2002	PUQ PAL
LIVIG UZ-4A	Hazardous waste onload and Fueling Palmer Station	NA .	7/19/2002	PAL	7/10/2002	PUQ
	Antarctic Data Repository for LMG02-04A		111812002	FAL	112312002	רטע
LMG02-4B	Open Period	NA	7/24/2002	At PUQ	7/29/2002	At PUQ
LMG02-5	SO GLOBEC: Foraging Ecology of Crabeater Seals	Dan Costa	7/29/2002	PUQ	8/3/2002	PAL
]	BG-232-O	8/3/2002	PAL	9/12/2002	PAL
	SO GLOBEC: Seabird Ecology Using Observations and Diet	Bill Fraser	9/13/2002	PAL	9/18/2002	PUQ
	Samples	BG-234-O				·
	SO GLOBEC: Winter Distribution and Activities of Sea-ice Microbial	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 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		<u> </u>			
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 Antarctic Data Repository for LMG02-08	Wayne Trivelpiece	11/13/2002	COPA	11/17/2002	PUQ
LMG02-9	The Scotia Arc GPS Project: Focus on the Antarctic Peninsula and	BO-040-O Fred Taylor	11/23/2002	PUQ	12/1/2002	PAL
LIVIGUZ-9	South Shetland Islands	GO-080-O	12/1/2002	POQ	12/1/2002	PAL
	AMS Radiocarbon Chronolgy of Glacier Fluctuations in the South	Brenda Hall	12/1/2002	PAL	12/16/2002	PUQ
	Shetland Islands During the Last Glacial/Interglacial Hemicycle:	IO-196-L	12,20,2002	. , _	. 2, 20, 2002	. 50
	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:		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				
		BP-021-O Langdon Quetin				
		Robin Ross				
		BP-028-O				
		Ray Smith				
		BP-032-O				
		Hugh Ducklow				
	Antarctic Data Repository for LMG03-01	BP-045-O			<u> </u>	

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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
	microtubule-dependent motors from cold-adapted Antarctic fishes	B-037-L	4/11/2003	PAL	4/25/2003	PAL
	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
LIVIGUS-S	i annoi Otation Onattie		6/24/2003	POQ	6/28/2003	PUQ
Maintanana	Maintenance Period at Punta Arenas, Chile	NA	6/29/2003	At PUQ	8/15/2003	At PUQ
Maintenance	Palmer Station Shuttle	INA	8/16/2003	PUQ PUQ		PAL
LMG03-5A	Advanced Microwave Scanning Radiometer (AMSR) Sea Ice	Konrad Steffen	8/16/2003	PUQ	8/18/2003 9/3/2003	PAL
	Validation during the Traverse to Antarctica		6/21/2003	FAL	9/3/2003	FUQ
		O-309-L				
	http://www.ghcc.msfc.nasa.gov/AMSR/					
	Antarctic Data Repository for LMG03-05A		0/=/000		0 /00 /00 0	
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	PMN	11/14/2003	PAL
	Antarctic Data Repository for LMG03-08		11/14/2003	PAL	11/19/2003	PUQ
LMG03-9	Global Climate Change and the Evolutionary Ecology of Antarctic	Daniel Blake	11/23/2003	PUQ	11/30/2003	PAL
	Mollusks in the Late Eocene	G-065-L	12/2/2003	PAL	12/29/2003	PUQ
	Evolution and Biogeography of Late Cretaceous Vertebrates from	Judd Case				
	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
	1140-77 11414 10000 10000 1000	BP-016-O	1/25/2004	ROT	1/24/2004	Avian Island
		Doug Martinson	1/25/2004	Avian Island	2/1/2004	PAL
		•				PAL PUQ
		BP-021-O	2/2/2004	PAL	2/7/2004	PUQ
		Langdon Quetin				
		Robin Ross	1			
		BP-028-O	1			
		Ray Smith				
		BP-032-O	1			
		Hugh Ducklow	1			
	Antarctic Data Repository for LMG04-01	BP-045-O				
LMG04-2	Plankton Community Structure and Iron Distibution in	Chris Measures	2/12/2004	PUQ	2/16/2004	PAL
	the Southern Drake Passage	B-225-L	2/17/2004	PAL	2/18/2004	PMN
	http://www.es.umb.edu/faculty/mzh/files/sfz/sfz.htm	B. Greg Mitchell	2/18/2004	PMN	3/18/2004	PAL
		B-228-L	3/20/2004	PAL	3/24/2004	PUQ
		Meng Zhou				
	Antarctic Data Repository for LMG04-02	B-248-L				
LMG04-3	SO GLOBEC: Mysticete Whale Acoustic Census in the GLOBEC	John Hildebrand	3/28/2004	PUQ	4/2/2004	KGI
	West Antarctic Project Area	B-239-L	4/2/2004	KGI	4/3/2004	PAL
	Palmer Station shuttle		4/8/2004	PAL	4/12/2004	PUQ
	Antarctic Data Repository for LMG04-03					
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CRUISE #	CRUISE by NAME	Pls	Donosturo	DODT	Aurital	DODT
			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
		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)	O-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
LIVIGU4-3	anner etation enatite	N/A				
			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
LINICOTT		1007	6/23/2004	PAL	6/27/2004	PUQ
LMG04-8	Northbound hazardous waste run	N/A	6/30/2004	PUQ	7/17/2004	PAN
LIVIGU4-0		N/A				
	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
LINICOTTT	Tracers of biological productivity and gas exchange	O-271-L	10/8/2004	PAL	10/13/2004	PUQ
	Antarctic Data Repository for LMG04-11	0-27 1-L	10/6/2004	FAL	10/13/2004	FUQ
11100: ::	· · · · · · · · · · · · · · · · · · ·	Total Control	40/47/000	5116	40/04/022	005:
LMG04-12	Foraging Behavior and Demography of Pygoscelis Penguins (COPA		10/17/2004	PUQ	10/21/2004	COPA
	Field Camp)	B-040-E	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					·
LMG04-13A	Long-Term Data Collection at Select Antarctic Peninsula Visitor	Ronald Naveen	11/6/2004	PUQ	11/10/2004	CS
	Sites	B-086-E	11/10/2004	CS	11/11/2004	PAL
	Cape Shirreff Field Camp Put-in/Opening	- ****	11/12/2004	PAL	11/11/2004	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
	biogeography of antarctic benthic invertebrates	B-281-L	12/17/2004	PAL	12/22/2004	PUQ
	Salpa thompsoni in the Sourther Ocean: Bioenergetics, population	Pat Kremer	12/11/2001	1712	12/22/2001	100
	dynamics and biogeochemical impact	B-307-L				
	Antarctic Data Repository for LMG04-14					
LMG05-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Bill Fraser	12/29/2004	PUQ	1/2/2005	PAL
	An Ice-Dominated Environment (LTER)	BP-013-O	1/4/2005	PAL	2/1/2005	PAL
	http://www.icess.ucsb.edu	Maria Vernet	2/2/2005	PAL	2/6/2005	PUQ
		BP-016-O			_, 0, _ 0 0	
		Doug Martinson				
		BP-021-O				
		Langdon Quetin				
		Robin Ross				
		BP-028-O				
		Ray Smith				
		BP-032-O				
	Antonia Data Dania (tana 6 a I MOSS Of	Hugh Ducklow				
11.000	Antarctic Data Repository for LMG05-01	BP-045-O	01:		0/40/0	F::-a
LMG05-02	Paleohistory of the Larsen Ice Shelf: Phase III	Eugene Domack	2/11/2005	PUQ	3/12/2005	PUQ
		G-096-L				
LMG05-03	Palmer Station Shuttle and Turnover	N/A	3/15/2005	PUQ	3/19/2005	PAL
			3/24/2005	PAL	3/24/2005	PMN
			3/25/2005	PMN	3/28/2005	PUQ
LMG05-04	Mysticete Whale Acoustic Census in the GLOBEC West Antarctic	John Hildebrand	4/2/2005	PUQ	4/7/2005	PAL
	Project Area	B-239-L	4/11/2005	PAL	4/15/2005	PUQ
LMG05-05	Cold body Temperature as an Evolutionary Shaping Force in the	Bruce Sidell	4/20/2005	PUQ	4/25/2005	PAL
LIVIGUS-US						
	Physiology of Antarctic Fishes	B-036-L	4/26/2005	PAL	4/28/2005	PAL
			5/2/2005	PAL	5/3/2005	PAL
			5/4/2005	PAL	5/6/2005	PAL
			5/8/2005	PAL	5/12/2005	PUQ
LMG05-06	Cold body Temperature as an Evolutionary Shaping Force in the	Bruce Sidell	5/18/2005	PUQ	5/22/2005	PAL
	Physiology of Antarctic Fishes	B-036-L	5/22/2005	PAL	5/25/2005	PAL
	' "		5/27/2005	PAL	5/28/2005	PAL
			5/31/2005	PAL	6/1/2005	PAL
LMOOF OF	Transport Dialogical Destroyality and Oct. 7	Ctoven Francis	6/5/2005	PAL	6/9/2005	PUQ
LMG05-07	Tracers of Biological Productivity and Gas Exchange	Steven Emerson	6/13/2005	PUQ	6/18/2005	PAL
	Palmer Station hazardous waste pickup	O-271-L	6/24/2005	PAL	6/28/2005	PUQ
	Antarctic Data Repository for LMG05-07					
	INI. at Liver at Liver and a second and the Deat Liver and OA	N/A	7/3/2005	PUQ	7/31/2005	PTH
LMG05-08	Northbound hazardous waste runto Port Hueneme, CA	N/A	11012000		113112003	
LMG05-08 LMG05-09	Southbound Transit to PUQ	N/A	8/15/2005	PTH	9/6/2005	PMC

CRUISE#	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
11122	Note: cruise number LN		0//0/07	F	0/00/200	
LMG05-11	Palmer Station opening.	N/A	9/16/2005	PUQ	9/20/2005	PAL
LMG05-11A	LMG Drydock	N/A	9/23/2005 10/1/2005	PAL PUQ	9/29/2005 10/9/2005	PUQ TAL
LIVIOUS-11A	LING DIYUGCK	N/A	10/1/2005	TAL	10/3/2005	PUQ
LMG05-12	COPA Opening	N/A	10/22/2005	PUQ	10/26/2005	COPA
			10/28/2005	COPA	10/29/2005	PAL
			10/30/2005	PAL	11/3/2005	PUQ
111005 44	Note: cruise number LN		44/7/0005	PLIC	44/40/0005	00
LMG05-14	Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites.	Ronald Naveen B-086-E	11/7/2005 11/11/2005	PUQ CS	11/10/2005 11/12/2005	CS PMN
	Cape Shirreff Field Camp Put-in/Opening.	D-000-L	11/11/2005	PMN	11/13/2005	PAL
	LTER Site Visit Nov. 14, 15, 16.		11/17/2005	PAL	11/21/2005	PUQ
LMG05-14A	Free drifting icebergs: Influence of floating islands on pelagic	Ken Smith	11/25/2005	PUQ	11/29/2005	PAL
	ecosystems in the Weddell Sea	B-050-L	11/29/2005	PAL	12/23/2005	PAL
			12/23/2005	PAL	12/24/2005	CS
LMG06-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Bill Ergeor	12/24/2005 1/1/2006	CS PUQ	12/27/2005 1/5/2006	PUQ PAL
LIVIGUO-01	An Ice-Dominated Environment (LTER)	B-013-L/P	1/7/2006	PAL	2/4/2006	PAL
	http://www.icess.ucsb.edu	Maria Vernet	2/5/2006	PAL	2/9/2006	PUQ
		B-016-L/P				
		Doug Martinson				
		B-021-L				
		Langdon Quetin				
		Robin Ross B-028-L/P				
		Ray Smith				
		B-032-L/P				
		Hugh Ducklow				
		B-045-L/P				
LMG06-02	Salpa thompsoni in the Southern Ocean: Bioenergetics, population	Laurence Madin	2/14/2006	PUQ	2/19/2006	PAL
	dynamics and biogeochemical impact	B-307-L	2/20/2006 3/11/2006	PAL PMN	3/11/2006 3/11/2006	PMN PAL
	Antarctic Data Repository for LMG06-02		3/12/2006	PAL	3/11/2006	PUQ
LMG06-03	Processes driving spatial and temporal variability of surface pCO2 in	Taro Takahashi	3/21/2006	PUQ	3/29/2006	PAL
	the Drake Passage	O-214-L/N	3/31/2006	PAL	4/4/2006	PUQ
LMG06-03A	Palmer Station Shuttle	N/A	4/8/2006	PUQ	4/12/2006	PAL
LMG06-04	Antarctic Data Repository for LMG06-03A Palmer Station Turnover	N/A	4/15/2006 4/25/2006	PAL PUQ	4/22/2006 4/30/2006	PUQ PAL
LIVIGUO-04	Antarctic Data Repository for LMG06-04	IN/A	5/3/2006	PAL	5/7/2006	PUQ
LMG06-05	Relevance of planktonic larval despersal to endemism and	Kenneth Halanych	5/13/2006	PUQ	5/20/2006	PAL
	biogeography of antarctic benthic invertebrates	B-281-L	5/21/2006	PAL	6/8/2006	PAL
	Antarctic Data Repository for LMG06-05		6/9/2006	PAL	6/14/2006	PUQ
LMG06-06	Palmer Station Shuttle	N/A	6/19/2006	PUQ	6/24/2006	PAL
	Day trip to Vernadsky Station		6/25/2006	PAL	6/25/2206	VRN
			6/25/2006	VRN	6/26/2006	PAL
LMG06-07	Open Period	N/A	6/28/2006 7/3/2006	PAL PUQ	7/2/2006 8/6/2006	PUQ PUQ
LMG06-08	Palmer Station Shuttle	N/A	8/6/2006	PUQ	8/10/2006	PAL
2500-00	Antarctic Data Repository for LMG06-08	TWA .	8/11/2006	PAL	8/16/2006	PUQ
LMG06-09	Open Period	N/A	8/18/2006	PUQ	9/10/2006	PUQ
LMG06-10	Palmer Station Opening	N/A	9/15/2006	PUQ	9/20/2006	PAL
			9/25/2006	PAL	9/30/2006	PUQ
LMG06-11	COPA Opening	N/A	10/5/2006	PUQ	10/9/2006	COPA
			10/10/2006	COPA	10/11/2006	PAL
			10/12/2006	PAL	10/16/2006	PUQ
LMG06-11A	Open Period	N/A	10/20/2006	PUQ	10/25/2006	PUQ
LMG06-11B	Long-Term Data Collection at Select Antarctic Peninsula Visitor	Ronald Naveen	10/28/2006	PUQ	11/1/2006	CS
	Sites	B-086-L	11/1/2006	CS	11/2/2006	PAL
			11/3/2006	PAL	11/3/2006	PMN
	Automatic Data Democition for LAMOOD 44D		11/3/2006	PMN	11/4/2006	COPA
1,0000,45	Antarctic Data Repository for LMG06-11B	NI/A	11/4/2006	COPA	11/8/2006	PUQ
LMG06-12	NSF Operations	N/A	11/12/2006	PUQ	11/16/2006	PAL
			11/16/2006	PAL	11/17/2006	PMN
			11/17/2006	PMN	11/19/2006	ROT
			11/20/2006 11/23/2006	ROT OHG	11/23/2006 11/24/2006	OHG ESP
			11/23/2006	ESP	11/24/2006	DEC
			11/24/2006	DEC	11/23/2006	KGI
	Antarctic Data Repository for LMG06-12		11/26/2006	KGI	12/1/2006	PUQ
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CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
LMG06-13	Palmer Station Shuttle	N/A	12/6/2006	PUQ	12/9/2006	PAL
LIVIO00-13	anno canon onutio	" '	12/10/2006	PAL	12/3/2000	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				
LMG07-02	Peterman Island pick-up	N/A	2/16/2007	PUQ	2/20/2007	COPA
LIVIO07-02	Close Cape Shirreff	N/A	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	COPA
			2/26/2007	COPA	3/1/2007	PUQ
LMG07-03	Palmer Station Shuttle	N/A	3/8/2007	PUQ	3/12/2007	PAL
<u></u>			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.	L	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
LMC07.06	Oceanographic Data Collection	Daves Cidell	E/12/2007	DLIO	E/16/2007	DAI
LMG07-06	Differential Expression of Oxygen-Binding Proteins in Antarctic	Bruce Sidell B-036-L	5/12/2007	PUQ	5/16/2007 5/27/2007	PAL
	Fishes Affecting Nitric Oxide-Mediated Pathways of Angiogenesis and Mitochondrial Biogenesis.	D-030-L	5/17/2007 5/27/2007	PAL VRN	5/27/2007 5/27/2007	VRN PAL
	Habitat Utilization of Southern Ocean Seals: Foraging Behavior of	Dan Costa	5/30/2007	PAL	6/3/2007	PUQ
	Crabeater and Elephant Seals Using Novel Methods of	B-232-L	0/00/2007	1712	0/0/2001	100
	Oceanographic Data Collection	202 2				
	Antarctic Data Repository for LMG07-06					
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
	Note: cruise number Li					
LMG07-10	Drydock	N/A	7/19/2007	FCH	8/11/2007	FCH
LMG07-11	Southbound Transit to Punta Arenas, Chile	N/A	8/11/2007	FCH	9/6/2007	PUQ
LMG07-12	Palmer Station Opening	N/A	9/13/2007	PUQ	9/17/2007	PAL
1,140,07,10	Antarctic Data Repository for LMG07-12	AL/A	9/24/2007	PAL	9/29/2007	PUQ
LMG07-13	COPA Opening	N/A	10/8/2007	PUQ	10/12/2007	COPA
	Antarctic Data Repository for LMG07-13		10/13/2007 10/15/2007	COPA	10/14/2007	PAL
LMG07-14	Open Period	N/A	10/15/2007	PAL PUQ	10/20/2007 10/31/2007	PUQ PUQ
LMG07-14 LMG07-15	Cape Shireff Opening	N/A N/A	11/4/2007	PUQ	11/7/2007	CS
LIVIGUI-10	Petermann Island Camp Put-In		11/4/2007	CS	11/7/2007	PAL
	osomanii isiana oampii utiiii		11/8/2007	PAL	11/9/2007	PMN
			11/9/2007	PMN	11/3/2007	PAL
	Antarctic Data Repository for LMG07-15		11/12/2007	PAL	11/16/2007	PUQ
		MG07-16 was not used		-	-	
LMG07-17	Vertebrate Paleontology of Livingston Island, South Shetlands,	Ross MacPhee	11/22/2007	PUQ	11/26/2007	LIV
	Antarctica	G-170-E	12/2/2007	LIV	12/2/2007	VRN
	Collaborative Research: Testing the Polar Gateway Glaciation	David Barbeau	12/2/2007	VRN	12/3/2007	PAL
	Hypothesis: the Kinematic, Sedimentary, Water-Mass, and Ice-	G-432-E	12/4/2007	PAL	12/8/2007	LIV
	Volume Record of Drake Passage Opening		12/10/2007	LIV	12/11/2007	SEY
	Automatic Data Democitary for LMO07 47		12/16/2007	SEY	12/16/2007	ESP
LMG08-01	Antarctic Data Repository for LMG07-17	Pill Erocor	12/16/2007 12/30/2007	ESP PUQ	12/22/2007 1/3/2008	PUQ PAL
LIVIGUO-U I	Long-Term Ecological Research on the Antarctic Marine Ecosystem:	Bill Fraser B-013-L/P	1/5/2008	POQ	2/3/2008	PAL
	An Ice-Dominated Environment (LTER) http://www.icess.ucsb.edu		2/5/2008	PAL	2/9/2008	PUQ
	<u>птр.// www.ioess.uosu.euu</u>	Maria Vernet B-016-L/P	21312000	FAL	21312000	ruu
		Doug Martinson				
		B-012-L]	
		Langdon Quetin]	
		Robin Ross				
1		1.10000				

CRUISE#	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
CRUISE #	CROISE BY NAME	B-028-L/P	Departure	PORT	Allivai	PORT
		Hugh Ducklow				
	Antarctic Data Repository for LMG08-01	B-045-L/P				
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
	pelagic coupling	Craig Smith	3/13/2008	PAL	3/17/2008	PUQ
	Antarctic Data Repository for LMG08-02	B-212-L				
LMG08-03	Palmer Station Turnover	N/A	3/22/2008	PUQ	3/26/2008	PAL
	Antarctic Data Repository for LMG08-03		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
	benthic formanifers as paleoenvironmental proxies.	G-183-L	4/19/2008	PAL	4/23/2008	PUQ
	Antarctic Data Repository for LMG08-04	1000 05 natd				
LMG08-06	Note: cruise number LI Protein folding and function at cold temperature: Co-evolution of the	NGU8-05 was not used	4/27/2008	PUQ	5/2/2008	PAL
LIVIGUO-00	chaperonin CCT and tubulins from antarctic fishes	B-037-L	5/4/2008	PAL	5/6/2008	PAL
		D-037-L	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
ĺ	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.	G-183-L	7/4/2008	PAL	7/8/2008	PUQ
	Antarctic Data Repository for LMG08-08					
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
LMG08-10	Antarctic Data Repository for LMG08-09	Art Devries	8/5/2008	PAL PUQ	8/9/2008	PUQ PAL
LIVIGU8-10	Environmental, organismal and evolutionary physiology of freeze	B-005-L	8/13/2008 8/19/2008	POQ	8/18/2008 8/25/2008	PAL PAL
	avoidance in antarctic Notothenoid fishes	D-009-L	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
ĺ			10/19/2008	COPA	10/22/2008	PAL
			10/23/2008	PAL	10/24/2008	CS
			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	12/29/2008	PUQ
LMG09-01		Doug Martinson	12/30/2008	PUQ	1/4/2009	PAL
ĺ	An Ice-Dominated Environment (LTER)	B-241-L	1/6/2009	PAL	2/1/2009	PAL
		Hugh Ducklow	2/2/2009	PAL	2/6/2009	PUQ
		B-045-L				
ĺ		Deborah Steinberg				
ĺ		B-020-L				
ĺ		Oscar Schofield				
		B-019-L				
		Bill Fraser				
ĺ		B-013-L				
	Antarctic Data Repository for LMG09-01	Michael Bender O-326-L				
	Antarciic Data Repository for LiviG09-01	U-320-L				

CRUISE # LMG09-02 Collaborative Research: Benthic faunal feeding dynamics on the Antarctic Sheff and the effects of global climate change on bethopelagic coupling Post
Antarctic Sheft and the effects of global climate change on bethopelagic coupling Bartham 2/16/2009 Search for late Mesozoic vertebrate fossils on Livingston Island Causes of mass extinction during the late Cretaceous age in Antarctic. Antarctica. Antarctic. Antarctica. Antarctic. Antarctica. Antarctic. An
Pelagic coupling
Search for late Mesozoic vertebrate fossils on Livingston Island Causes of mass extinction during the late Cretaceous age in Antarctic Data Repository for LMG09-02 Antarctic Data Repository for LMG09-03 Antarctic Data Repository for LMG09-04 Antarctic Data Repository for LMG09-05 Antarctic Data Repository for LMG09-09 Antarctic Data Repository for L
Search for late Mesozoic vertebrate fossils on Livingston Island G. 470-E 3/10/2009 PAL 3/11/2009 A
Causes of mass extinction during the late Cretaceous age in Antarctica. Antarctica
Causes of mass extinction during the late Cretaceous age in Antarctica.
Antarctica Antarctica Antarctica Antarctica Antarctic Data Repository for LMG09-02 LMG09-03 Microbial diversity in historic woods, organic substrates and soil Robert Blanchette 3/12/2009 Abrupt environmental change in the Larsen ice Shelf system B-038-L/P Abrupt environmental change in the Larsen ice Shelf system Abrupt environmental change in the Larsen ice Shelf system Eugene Domack C-515-L 4/2/2009 Al/2/2009 Antarctic Data Repository for LMG09-03 Note: cruise number LMG09-04 was not used Note: cruise number LMG09-04 was not used Limkg09-05 Collaborative Research: the ecological role of a poorly studied Antarctic krill predator: the humpback whale. Linkages among mitochondrial form, function and thermal tolerance of Antarctic krill predator: the humpback whale. Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Antarctic Data Repository for LMG09-05 LMG09-08A Hazardous waste shuttle N/A LMG09-07A Hazardous Waste Run / Dry dock N/A LMG09-07A N/A N/A N/A N/A N/A N/A N/A N
Antarctica Antarctica Data Repository for LMG09-02 LIMG09-03 Microbial diversity in historic woods, organic substrates and soil Robert Blanchette 37/2172009 PC 37/28/2009 PC 4/2/2009 PC 4/2/2/2009 PC 4/2/2/2009 PC 4/2/2/2/2009 PC 4/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2
Antarctic Data Repository for LMG09-02 LMG09-03 Microbial diversity in historic woods, organic substrates and soil Robert Blanchette 3/21/2009 PUQ 3/26/2009 PUQ 3/26/2009 PUQ 3/26/2009 PUQ 3/26/2009 PUQ 3/26/2009 PUQ 3/26/2009 PUQ 3/30/2009 PUQ 3/30/2009 PUQ 3/30/2009 PUQ A/1/2009 PUQ A/1/20
LMG09-03 Microbial diversity in historic woods, organic substrates and soil B-038-L/P 3/29/2009 DEC 3/30/2009 DEC 3/30/200
Abrupt environmental change in the Larsen Ice Shelf system
Abrupt environmental change in the Larsen Ice Shelf system
Antarctic Data Repository for LMG09-03 Note: cruise number LMG09-04 was not used
Antarctic Data Repository for LMG09-03
Note: cruise number LMG09-04 was not used LMG09-05 Collaborative Research: the ecological role of a poorly studied Antarctic krill predator: the humpback whale. Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Linkages among mitochondrial form, function and thermal tolerance of Antarctic Data Repository for LMG09-05 LMG09-05 LMG09-06 LMG09-07 LMG09-08 LATARCTIC Data Repository for LMG09-07 LMG09-07 LATARCTIC Data Repository for LMG09-09
LMG09-05 Collaborative Research: the ecological role of a poorly studied Antarctic krill predator: the humpback whale. Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes Aristin O'Brien Arizental PAL Arizental PA
Antarctic krill predator: the humpback whale. Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes of Antarctic notothenioid fishes Antarctic notothenioid fishes Antarctic notothenioid fishes Antarctic Data Repository for LMG09-05 LMG09-06A Antarctic Data Repository for LMG09-05 LMG09-07A LMG09-07 Hazardous Waste Run / Dry dock LMG09-07 Hazardous Waste Run / Dry dock LMG09-08 Transit to Punta Arenas N/A LMG09-08 Transit to Punta Arenas N/A LMG09-09 PAL Antarctic Data Repository for LMG09-09 LMG09-09 PAL Antarctic Data Repository for LMG09-09 LMG09-10 COPA/Cape Shirreff Opening LMG09-11 Geoscience island field camps Antarctic Data Repository for LMG09-11 LMG09-11 LMG09-11 LMG09-10 LMG09-11 LMG09-11 LMG09-11 LMG09-12 LMG09-11 LMG09-11 LMG09-11 LMG09-12 LMG09-11 LMG09-11 LMG09-11 LMG09-12 LMG09-11 LMG09-12 LMG09-11 LMG09-13 LMG09-11 LMG09-14 LMG09-14 LMG09-15 LMG09-15 LMG09-16 LMG09-16 LMG09-17 LMG09-17 LMG09-18 LMG09-18 LMG09-19 LMG09-19 Antarctic Data Repository for LMG09-11 LMG09-10 LMG09-11 LMG0
Linkages among mitochondrial form, function and thermal tolerance of Antarctic notothenioid fishes 4/29/2009 PAL 5/10/2009 PAL 5/14/2009 PAL
Description
S/14/2009
LMG09-06A Hazardous waste shuttle N/A 6/15/2009 PAL 6/2009 PAL 6/12/2009 PAL 6/21/2009 PAL 7/12/2009 PAL 7/12/
S/27/2009
Antarctic Data Repository for LMG09-05
LMG09-06A Hazardous waste shuttle
EMG09-07 Hazardous Waste Run / Dry dock N/A 7/4/2009 PAL 6/21/2009 PAL 7/1/2009 PAL 7/21/2009 PAL 7/21/2009 PAL 7/21/2009 PAL 7/31/2009 PAL 7/31
LMG09-07 Hazardous Waste Run / Dry dock N/A 7/4/2009 PAL 7/1/2009 PE
LMG09-07 Hazardous Waste Run / Dry dock N/A 7/4/2009 PUQ 7/27/2009 FUMG09-07A Dry dock, Port Hueneme cargo loading N/A 7/31/2009 FCH 8/15/2009 FCH
LMG09-07A Dry dock, Port Hueneme cargo loading Ni/A 7/31/2009 FCH 8/15/2009 FCH LMG09-08 Transit to Punta Arenas Ni/A 8/16/2009 FCH 9/11/2009 PCH 9/27/2009 PCH 9/27/2009 PCH 9/28/2009 PCH
LMG09-07A Dry dock, Port Hueneme cargo loading Ni/A 7/31/2009 FCH 8/15/2009 FCH LMG09-08 Transit to Punta Arenas Ni/A 8/16/2009 FCH 9/11/2009 PCH 9/27/2009 PCH 9/27/2009 PCH 9/28/2009 PCH
LMG09-08 Transit to Punta Arenas N/A 8/16/2009 FCH 9/11/2009 P
LMG09-09 Surface pCO2 and the effects of winter overturning in the Drake Passage PuQ Passage PuQ Passage PuQ Passage Pud Passage
Passage
Antarctic Data Repository for LMG09-09
LMG09-10 COPA/Cape Shirreff Opening N/A 10/14/2009 PAL 10/27/2009 PAL 11/3/2009 PAL 11/3/2009 PAL 11/3/2009 PAL 11/3/2009 PAL 11/3/2009 PAL 11/3/2009 PAL 11/27/2009 PAL 11/27/2009 PAL 11/27/2009 PAL 12/12/2009 PAL 12/12/2009 PAL 12/12/2009 PAL 12/12/2009 PAL 12/10/2009 PAL 12/10/2009 PAL 12/11/2009 PAL 12/11/2009 PAL 12/11/2009 PAL 12/11/2009 PAL 12/11/2009 PAL 12/11/2009 PAL 12/12/2009 PAL 12/11/2009 PAL 12/12/2009 PAL 12/12/2009 PAL 12/12/2009 PAL 12/12/2009 PAL 13/2010 PAL 13/2010 PAL 15/2010 PAL 15/2010 PAL 15/2010 PAL 15/2010 PAL 15/12/2010 PAL 15/12
10/22/2009 PAL 10/27/2009 PAL 11/3/2009 PAL 12/9/2009 PAL 12/9/2009 PAL 12/9/2009 PAL 12/9/2009 PAL 12/11/2009 PAL 12/11/2009 PAL 12/21/2009 PAL 12/21/2009 PAL 12/21/2009 PAL 13/2010 PAL
David Barbeau 11/3/2009 PUQ 11/18/2009 PUQ
LMG09-11 Geoscience island field camps David Barbeau 11/23/2009 PUQ 11/27/2009 FOR STATE 12/6/2009 JRI 12/9/2009 JRI
G-432-E 12/6/2009 JRI 12/9/2009 LIV 12/10/2009 LIV 12/10/2009 LIV 12/10/2009 LIV 12/10/2009 LIV 12/10/2009 LIV 12/10/2009 LIV 12/11/2009 SNO 12/11/2009 SNO 12/11/2009 SNO 12/11/2009 SNO 12/11/2009 SNO 12/11/2009 POWER STATE STAT
Ross MacPhee 12/10/2009 LIV 12/11/2009 SNO 12/11/2009 SNO 12/11/2009 ROSS 12/21/2009 POSS
Composition of the Antarctic Data Repository for LMG09-11 Composition of the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER) Composition of the Antarctic Marine Ecosystem: Composition of the Antarctic Marine
Antarctic Data Repository for LMG09-11 Joseph Kirschvink
Antarctic Data Repository for LMG09-11 G-436-E LMG-10-01 Long-Term Ecological Research on the Antarctic Marine Ecosystem: Doug Martinson 12/30/2009 PUQ 1/3/2010 FAL 2/2/2010 FAL 2/2/2010 PAL 2/7/2010
LMG-10-01 Long-Term Ecological Research on the Antarctic Marine Ecosystem: Doug Martinson 12/30/2009 PUQ 1/3/2010 F An Ice-Dominated Environment (LTER) B-241-L 1/5/2010 PAL 2/2/2010 F Hugh Ducklow 2/3/2010 PAL 2/7/2010 P
An Ice-Dominated Environment (LTER) B-241-L Hugh Ducklow 1/5/2010 PAL 2/2/2010 PAL 2/7/2010 PAL
Hugh Ducklow 2/3/2010 PAL 2/7/2010 P
Deborah Steinberg
B-020-L
Oscar Schofield
B-019-L
Bill Fraser
B-013-L
Michael Bender
Antarctic Data Repository for LMG10-01 O-326-L LMG10-02 Pelmor Station Logistics Support NA 2/12/2010 PILO 2/17/2010 PI
LMG10-02 Palmer Station Logistics Support N/A 2/13/2010 PUQ 2/17/2010 F
2/20/2010 PAL 2/22/2010 F
2/27/2010 PAL 3/2/2010 F
3/21/2010 PAL 3/25/2010 P
3/21/2010 PAL 3/25/2010 P LMG10-02A RPSC/ECO Cooperative vessel equipment maintenance N/A 3/26/2010 PUQ 4/9/2010 P
3/21/2010 PAL 3/25/2010
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3/21/2010 PAL 3/25/2010 P LMG10-02A RPSC/ECO Cooperative vessel equipment maintenance N/A 3/26/2010 PUQ 4/9/2010 P LMG10-03 Protein folding and function at cold temperature: Co-evolution of the Bill Detrich 4/10/2010 PUQ 4/16/2010 F
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LMG10-02A RPSC/ECO Cooperative vessel equipment maintenance N/A 3/26/2010 PUQ 4/9/2010 PUQ 4/9/2010 PUQ 4/9/2010 PUQ 4/9/2010 PUQ 4/16/2010 PUQ 4/25/2010 PUQ 5/8/2010 PUQ 5/8/2010 PUQ 5/8/2010 PUQ 5/15/2010 PUQ 5
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LMG10-02A RPSC/ECO Cooperative vessel equipment maintenance N/A 3/25/2010 PUQ 4/9/2010 PUQ 4/9/2010 PUQ 4/9/2010 PUQ 4/9/2010 PUQ 4/9/2010 PUQ 4/16/2010 PUQ 4/25/2010 PUQ 4/25/2010 PUQ 4/25/2010 PUQ 4/25/2010 PUQ 4/25/2010 PUQ 4/25/2010 PUQ 5/8/2010 PUQ 5/8/2010 PUQ 5/8/2010 PUQ 5/15/2010 PUQ 6/16/2010 PUQ 6/
M/A 3/21/2010 PAL 3/25/2010 PAL 4/9/2010 PAL 4/9/2010 PAL 4/9/2010 PAL 4/10/2010 PAL 4/10/2010 PAL 4/10/2010 PAL 4/21/2010 PAL 4/21/2010 PAL 4/21/2010 PAL 4/21/2010 PAL 4/23/2010 PAL 4/23/2010 PAL 4/25/2010 PAL 5/15/2010 PAL 5/25/2010 PAL 5/25/20

MMS102 Color A Opening Min	CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
MG10:06 Cape Statret Opening		COPA Opening	-				
LMG10-08 Cape Shreef Opening Hard Vestor Pokup 11/3/2010 Pub 11/3/2010		Palmer Station Opening		10/10/2010	COP	10/12/2010	PAL
Haz Waste Pokup 11/3/2010 PAL 11/3/2010							
Military	LMG10-08		N/A				
LMG10-10 Accustic Assessment of Southern Ocean Salps and Their Loseph Warren 17/25/2010 PAL 17/2		Haz Waste Pickup					
Ecosystem Impact 1/3/0/2010 PAL 1/3/0/2010	11101010						
LMG11-01 LMG11-02 LMG11-03 LMG11-04 LMG11-05	LMG10-10	· ·					
LMG11-01 Long-Trem Exological Research on the Antarctic Main're Ecosystem Deug Martinson 24/14/2011 PAL 15/2011 PAL PUQ 15/2011 PAL PUQ PAL PA			D-393-L				
An Ico-Dominated Environment (LTER) PAL Application to Ico Active the Application of the Ico Active the	LMG11-01	-	Doug Martinson				
Hugh Ducklow B-0451 Deborah Steinberg B-0401 B-0451 Deborah Steinberg B-0401 B-0451 B-0574							
Deborah Steinberg B-920-L Ocars Schoffeld B-919-L Bill Fraser B-920-L Ocars Schoffeld B-919-L Bill Fraser B-920-L Decar Schoffeld B-919-L Bill Fraser B-919-L Bill Braser B-919-L Bill Fraser B-919-L Bi		` '	Hugh Ducklow				
B-920-L Cocar Schoffield B-019-L Bill Fraser B-013-L Bill Fraser B-013-L James Hollbaugh James Hollbaugh James Hollbaugh B-114-L Bill Fraser B-013-L James Hollbaugh							
Discar Schofield B-019-1, Bill Fraser B-013-1, James Hollbaugh B-019-1, Bill Fraser B-013-1, James Hollbaugh B-114-1, J			_				
B-0194_ Bill Fraser B-0134_ James Hollblaugh B-0144_ Bill Fraser B-0134_ James Hollblaugh B-0144_ Bill Fraser B-0134_ James Hollblaugh B-0144_ B-0144_ James Hollblaugh B-0144_ B-0144_ James Hollblaugh James Hollblaugh B-0144_ James Hollblaugh B-0144_ James Hollblaugh James Hollblaugh B-0144_ James Hollblaugh James Ho							
Bill Fraser B-0131. James Hollbaugh B-1141.							
B-0134_ James Holliburgh B-0144_ B-014							
Antarctic Data Repository for LMG11-01 B-114-L							
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Antarcic Data Repository for LMG11-02 Antarcic Data Repository for LMG11-02 Joseph Kirschvink G-436-E Joseph Kirschvink Jose			B-114-L				
Ross MacPhoe G-170-E Joseph Kirschvink G-170-E Joseph Kirschvink G-170-E Joseph Kirschvink G-49-E	LMG11-02	Geoscience island field camps					
LMG11-03 Pather Station Turnover N/A 3/23/2011 PUQ 3/27/2011 PAL 4/8/2011 PUQ 4/17/2011 PAL 4/18/2011 PUQ 4/17/2011 PUQ 4/18/2011						0,1,001	
LMG11-03 Palmer Station Turnover				3/8/2011	PAL	3/13/2011	PUQ
LMG11-03 Pelimer Station Turnover N/A 3/23/2011 PAL 3/27/2011 PAL 4/8/2011							
LMG11-03 Palmer Station Turnover NA		Antarctic Data Repository for LMG11-02					
LMG11-04 Redox balance in Antarctic notothenioid fishes: Do icefishes have an advantage? Antarctic Data Repository for LMG11-04 Antarctic Data Repository for LMG11-04 Antarctic Data Repository for LMG11-05 Redox balance in Antarctic notothenioid fishes: Do icefishes have an advantage? Collaborative Research: Fjord Ecosystem Structure and Function on the West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco) PAL 4/21/2011 PAL 5/21/2011 PAL 5/21	LMG11-03			3/23/2011	PUQ	3/27/2011	PAL
Add				4/5/2011	PAL	4/8/2011	PUQ
Antarctic Data Repository for LMG11-04 Artarctic Data Repository for LMG11-04 Antarctic Data Repository for LMG11-05 Antarctic Data Repository for LMG11-06 Antarctic Data Repository for LMG11-07 Antarctic Data Repository for LMG11-07 Antarctic Data Repository for LMG11-11 LMG11-12 LTER Site Review Antarctic Data Repository for LMG11-13 LMG11-12 LMG11-13 LMG11-14 LTER Site Review LATERCH Market Data Repository for LMG11-13 LMG11-14 LTER Site Review LATERCH Market Data Repository for LMG11-13 LMG11-14 LTER Site Review LATERCH Market Data Repository for LMG11-13 LMG11-14 LTER Site Review LATERCH Market Data Repository for LMG11-13 LMG11-14 LTER Site Review LATERCH Market Data Repository for LMG11-13 LMG11-14 LTER Site Review LATERCH Market Data Repository for LMG11-13	LMG11-04						
LMG11-05 Redox balance in Antarctic notothenioid fishes: Do icefishes have an advantage? Fig. 2011 PAL and advantage? PAL Collaborative Research: Fjord Ecosystem Structure and Function on the West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco) Fig. 2011 PAL Siz/2011 PAL Siz/		<u> </u>	B-036-L				
an advantage? Collaborative Research: Fjord Ecosystem Structure and Function on the West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco) LMG11-06 West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco) LMG11-06 Open Period, Punta Arenas, Chile LMG11-07 Open Period, Punta Arenas, Chile LMG11-08 Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean LMG11-09 Open Period LMG11-09 Palmer Station Opening Antarctic Data Repository for LMG11-09 LMG11-09 Palmer Station Opening Antarctic Data Repository for LMG11-09 LMG11-0 Open Period Antarctic Data Repository for LMG11-09 LMG11-10 Cape Shirreff Opening Acoustic Assessment of Southern Ocean Salps and Their Ecosystem Impact Antarctic Data Repository for LMG11-11 LMG11-12 LTER Size Review Antarctic Data Repository for LMG11-11 LMG11-12 LTER Cargo Onload, Punta Arenas, Chile LMG11-13 LTER Cargo Onload, Punta Arenas, Chile LMG11-14 LTER Cargo Onload, Punta Arenas, Chile LMG11-15 LTER Cargo Onload, Punta Arenas, Chile LMG11-16 LTER Cargo Onload, Punta Arenas, Chile LMG11-17 LTER Cargo Onload, Punta Arenas, Chile LMG11-18 LTER Cargo Onload, Punta Arenas, Chile LMG11-19 LTER Cargo Onload, Punta Arenas,	LMC11.0F		Krisin O'Brisn				
Collaborative Research: Fjord Ecosystem Structure and Function on the West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco) FjordEcol FjordE	LIVIG I I-US						
the West Antarctic Peninsula - Hot Spots of Productivity and Biodiversity? (FjordEco) LMG11-06							
MA		the West Antarctic Peninsula - Hot Spots of Productivity and	G-246-L				
LMG11-06 Open Period, Punta Arenas, Chile 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 Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal Antarctic Data Repository for LMG11-08		Biodiversity? (FjordEco)		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 James Ledwell O-124-L							
Ecology of Seasonal Succession in Antaractic Phytoplankton: Adaptations to Light and Temperature Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean Size Diapycnal Antarctic Data Repository for LMG11-08 NIA Size Diapycnal PuQ Size							
Limit Limi	LMG11-06A						
Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean James Ledwell O-124-L			D-400-L	0/12/2011	FAL	0/20/2011	FUQ
LMG11-07 Open Period		,	James Ladwell				
LMG11-07 Open Period N/A 8/21/2011 PUQ 8/30/2011 PUQ 9/1/2011 PUQ PUQ 9/1/2011 PUQ PUQ 9/1/2011 PUQ PU		Diapychai and isopychai wixing Experiment in the Southern Ocean					
LMG11-08 Palmer Station Opening	I MG11-07	Open Period		8/21/2011	PUQ	8/30/2011	PUQ
Antarctic Data Repository for LMG11-08		'					
LMG11-09	LMG11-08	. 0	N/A	9/13/2011	PUQ		
Antarctic Data Repository for LMG11-09							
LMG11-10 Cape Shirreff Opening Collaborative Research: Gene expression profiles of the Southern Ocean salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosysten Impact Antarctic Data Repository for LMG11-10 LTER Site Review Antarctic Data Repository for LMG11-11 LTER Cargo Onload, Punta Arenas, Chile N/A 12/24/2011 PAL 12/19/2011 PAL 12	LMG11-09	. ~	N/A				
Collaborative Research: Gene expression profiles of the Southern Ocean salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosysten Impact Antarctic Data Repository for LMG11-10 LMG11-11 LTER Site Review Antarctic Data Repository for LMG11-11 LMG11-12 LMG11-21 LMG1	I MG11-10		Ann Bucklin				
Ocean salp, Salpa thompsoni Acoustic Assessment of Southern Ocean Salps and Their Ecosysten Impact Antarctic Data Repository for LMG11-10	LIVIG I I- IU						
Acoustic Assessment of Southern Ocean Salps and Their Ecosystem Impact							
LMG11-11 LTER Site Review N/A 12/5/2011 PUQ 12/9/2011 PUQ 12/19/2011 PUQ 12/28/2011 PUQ 12/29/2011 PUQ 12/29/2011 PUQ 12/2012 PAL P							·
LMG11-11 LTER Site Review Antarctic Data Repository for LMG11-11 LMG11-12 LTER Cargo Onload, Punta Arenas, Chile N/A 12/24/2011 PUQ 12/28/2011 PU		l '					
Antarctic Data Repository for LMG11-11				10/=/2-::	2	10/2/27	
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 B-045-L Nicolas Cassar O-405-L Deborah Steinberg B-020-L Oscar Schofield B-019-L Bill Fraser B-013-L Douglas Martinson 12/24/2011 PUQ 1/2/2012 PAL 2/1/2012 PAL 2/1/2012 PUQ	LMG11-11		N/A				
LMG12-01 Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER) Hugh Ducklow B-045-L Nicolas Cassar O-405-L Deborah Steinberg B-020-L Oscar Schofield B-019-L Bill Fraser B-013-L Douglas Martinson	I MG11-12		N/A				
An Ice-Dominated Environment (LTER) B-045-L Nicolas Cassar 0-405-L Deborah Steinberg B-020-L Oscar Schofield B-019-L Bill Fraser B-013-L Douglas Martinson							
Nicolas Cassar O-405-L Deborah Steinberg B-020-L Oscar Schofield B-019-L Bill Fraser B-013-L Douglas Martinson				1/4/2012		2/1/2012	PAL
Deborah Steinberg B-020-L Oscar Schofield B-019-L Bill Fraser B-013-L Douglas Martinson		· '	Nicolas Cassar	2/2/2012	PAL	2/7/2012	PUQ
B-020-L Oscar Schofield B-019-L Bill Fraser B-013-L Douglas Martinson							
Oscar Schofield B-019-L Bill Fraser B-013-L Douglas Martinson							
B-019-L Bill Fraser B-013-L Douglas Martinson							
Bill Fraser B-013-L Douglas Martinson							
B-013-L Douglas Martinson							
Douglas Martinson							
Antarctic Data Repository for LMG12-01 B-021-L							
		Antarctic Data Repository for LMG12-01	B-021-L			<u> </u>	

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	O-283-L	3/5/2012	PAL	3/11/2012	PUQ
LMC42.02	Antarctic Data Repository for LMG12-02		2/47/2042	DUO	2/22/22/2	PAL
LMG12-03	Microtubule Function, Protein Folding, and Embryogenesis in	William Detrich B-037-L	3/17/2012 3/24/2012	PUQ PAL	3/22/2012 3/27/2012	PAL
	Antarctic Fishes: An Integrative Approach Developmental Mechanisms for the Evolution of Bone Loss	John Postlethwait	3/24/2012	PAL	4/3/2012	PUQ
	Antarctic Data Repository for LMG12-03	B-029-L	0/20/2012	1712	4/0/2012	100
LMG12-04	Microtubule Function, Protein Folding, and Embryogenesis in	William Detrich	4/8/2012	PUQ	4/12/2012	PAL
	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				
LMG12-05	Microtubule Function, Protein Folding, and Embryogenesis in	B-029-L William Detrich	5/2/2012	PUQ	5/7/2012	PAL
LIVIO 12-03	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
LMC40.07	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 N/A	6/28/2012 7/24/2012	PUQ FCH	7/23/2012 8/16/2012	FCH FCH
LMG12-08	Haz waste offload / dry dock Transit to Punta Arenas	N/A N/A	8/17/2012	FCH	9/11/2012	PUQ
	Antarctic Data Repository for LMG12-09	1973	3,,2012	. 511	3,, 2012	. 34
LMG12-10	Palmer Station Opening	James Ledwell	9/18/2012	PUQ	9/22/2012	PAL
	Antarctic Data Repository for LMG12-10	O-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
	Observed Dynamic Response to Antarctic Peninsula Mass Balance	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
	Cape Shirreff Opening		11/18/2012	PAL	11/23/2012	PUQ
LMG12-13	NSF	N/A	11/28/2012	PUQ	12/2/2012	PAL
			12/3/2012	PAL	12/7/2012	PUQ
LMG12-13A	Collaborative Research: Submarine Groundwater and Freshwater	David Corbett	12/10/2012	PUQ	12/20/2012	PAL
LMG13-01	Inputs Along the Western Antarctic Peninsula	O-176-L	12/20/2012	PAL PUQ	12/24/2012	PUQ PAL
LIVIG 13-01	Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)	Hugh Ducklow B-045-L	12/30/2012 1/5/2013	POQ	1/3/2013 1/19/2013	ROTHERA
	http://www.icess.ucsb.edu	Deborah Steinberg	1/20/2013	ROTHERA	1/27/2013	ROTHERA
	1110500.4665.044	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
LM040.00	Developmental Machanisms for the Fuel of the Control	John Doctleth!4	2/27/2013	COPA	3/4/2013	PUQ
LMG13-03	Developmental Mechanisms for the Evolution of Bone Loss Antarctic Data Repository for LMG13-03	John Postlethwait B-029-L	3/10/2013 3/21/2013	PUQ PAL	3/15/2013 3/23/2013	PAL PAL
	A STATE OF THE PROPERTY OF LINE TO	D-029-L	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	4/18/2013	PAL
			4/22/2013	PAL	4/23/2013	Maxwell Bay
			4/24/2013	PAL	4/25/2013	PAL
1,4010.05	Developmental Mechanisms for the evolution of bone loss	John Postlethwait	4/28/2013	PAL	5/2/2013	PAL
LMG13-05		B-029-L	5/6/2013	PUQ	5/15/2013	PAL
	Impact of recent climate warming on active-layer dynamics,	James Beat history	5/16/2013	PAL	5/18/2013	PAL
	permafrost, and soil properties on the western Antarctic Peninsula	James Bockheim			5/23/2013	PUQ
	Antarctic Data Repository for LMG13-04 Antarctic Data Repository for LMG13-05	G-239-L				
L	ATTRACTORIO DATA INSPOSITORY FOR ENVIOLENCE 13-03	I	1			

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				17 172010	. 34
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
	Anteretia Data Rangaitany far I MC42 40		10/13/13	PAL	10/20/13	PUQ
LMG13-11	Antarctic Data Repository for LMG13-10 In collaboration with KOPRI. the LARISSA PI team will return to the	Eugene Domack	10/27/2013	PUQ	10/30/2013	SHF
LIVIG 13-11	northern Peninsula region to complete data collection related to	C-515-L	10/31/2013	SHF	11/1/2013	PAL
	current LARISSA grant, and remove all US installations and gear for		11/3/2013	PAL	11/8/2013	PAL
	transfer to KOPRI.		11/9/2013	PAL	11/13/2013	PUQ
	Antarctic Data Repository for LMG13-11					
LMG13-12	Provide evolutionary understanding of how marine benthic	Ken Halanych	11/22/2013	PUQ	11/26/2013	PAL
	organisms are genetically structured and physicallly distributed in	B-281-L	12/16/2013	PAL	12/20/2013	PUQ
	the Western Antarctic; examine larval distributions and assess if					
	distributuions are consistant with patterns of genetic connectivity					
	within Antarctic waters.					
LMG14-01	Antarctic Data Repository for LMG13-12 LTER- Long-Term Ecological Research	Oscar Schofield	12/29/2013	PUQ	1/2/2014	PAL
LIVIO 14-01	ETELL CONG-TOTH Ecological Nescalor	B-019-L	12/23/2013	1 00	1/2/2014	IAL
	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		· · · -		. 53
	Antarctic Data Repository for LMG14-01					
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				
		G-182-L				
LMG14-03	Palmer Station Turnover- winter staffing	N/A	3/21/2014	PUQ	3/25/2014	PAL
111044.04	Missatukula Euratian Dastain Faldina, and Easkana ana sia in	William Detrich	3/30/2014	PAL	4/4/2014	PUQ
LMG14-04	Microtubule Function, Protein Folding, and Embryogenesis in Antarctic Fishes: An Integrative Approach	B-037-L	4/7/2014 5/15/2014	PUQ PAL	4/13/2014 5/19/2014	PAL PUQ
	Antarctic Data Repository for LMG14-04	D-037-L	3/13/2014	FAL	5/19/2014	FUQ
LMG14-05	Dry Dock in Talcahuano, Chile	N/A	5/20/2014	PUQ	6/21/2014	PUQ
	,		0,20,20			
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	
			0//0/00//	5110	211-12211	
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	10/17/2014	PUQ	10/21/2014	PAL
LIVIO 14-03	Tainer oldfor oderioe opening	N/A	10/0/2014	100	10/10/2014	1712
	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
	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
		O-275-L	40/47/6516	541	40/04/	B. I.C
	profiles of temp, salinity, dissolved oxygen, fluorescence and optial		12/17/2014	PAL	12/21/14	PUQ
	backscatter Antarctic Data Repository for LMG14-11					
LMG15-01	y androso Data Repository for LIVIO 17-11	Hugh Ducklow	 			
	LTER-Long-Term Ecological Research	C-045	12/27/2014	PUQ	1/3/2015	PAL
	LTEN-LONG-TERM LOOIOGICAL NESCALOTI	Debbie Steinberg	12,2112014	100	1/0/2010	IAL
		C-020	2/3/2015	PAL	2/8/2015	PUQ
		Oscar Schofield	2/3/2013	FAL	21012010	ı-∪Q
		C-019				
	To document/understand the phenology and variability in sea ice	William Fraser				
	dyamics, primary production, zooplankton ecology, Adelie	C-013				
	penguin demography, microbial and biogeochemical processes	Doug Martinson				
	in the Antarctic marine ecosystem.	C-021				
	in the Amaretic manne ecosystem.	Ari Friedlander				
		C-024-L				
		Robert Sherrell				
		B-203-L				
		5 203 L				

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	Dishard Avences	2/13/2015	PUQ	2/18/2015	PAL
LIVIG 15-02	of potentially invading, predatory king crabs in the Bellingshausen Sea.	B-002-L	3/11/2015	PAL	3/16/2015	PUQ
	Antarctic Data Repository for LMG15-02		3/11/2013			
LMG15-03	Palmer Station Turnover	N/A	3/20/2015 3/31/2015	PUQ PAL	3/25/2015 4/4/2015	PAL PUQ
LMG15-04	To understand the physiological and biochemical	Kristin O'Brien	4/7/2015	PUQ	4/12/2015	PAL
	mechanisms that define thermal tolerance of Antarctic notothenioids.	B-036-L	5/7/2015	PAL	5/11/2015	PUQ
LMG15-05	Antarctic Data Repository for LMG15-04 To understand the physiological and biochemical mechanisms that	Kristin O'Brien	5/15/2015	PUQ	5/19/2015	PAL
LING 10-03	define thermal tolerance of Antarctic notothenioids.	B-036-L	6/12/2015	PAL	6/17/2015	PUQ
LMG15-05B	Antarctic Data Repository for LMG15-05 XBT/XCTD Shuttle Run	N/A	6/20/2015	PUQ	6/24/2015	PAL
LIVIO 10-00B	ACTIVOTE CHARLETICAL		0/20/2010	100	0/24/2010	1712
	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
LMG15-08	Palmer Station Turnover	N/A	10/2/2015	PUQ	10/08/2015	PAL
	Antarctic Data Repository for LMG15-08		10/13/2015	PAL	10/18/2015	PUQ
LMG15-09	To sample the measured convergence and divergence zones with	Joshua Kohut	10/22/2015	PUQ	10/31/2015	PAL
	the context of the semi-diurnal tidal regimes. To collect the non- seasonal, brooding scleractinian Flabellum impensum to be brought	B-006	11/08/2015	PAL	11/13/2015	PUQ
	back to Palmer Station for a month long climate change experiement	Valerie Loeb B-288				
		Rhian Waller B-248				
LMG15-10	To determine whether sub-polar WAP fjords are regionally significant hotspots of productivity and biodiversity	Craig Smith B-212	11/19/2015 12/24/2015	PUQ PAL	11/23/2015 12/28/2015	PAL PUQ
LMG16-01	Antarctic Data Repository for LMG15-10 To build on preliminary surface distribution trace metal data, by	Robert Sherrell	1/3/2016	PUQ	1/8/2015	PAL
EMCTOOT	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 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 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.	Hugh Ducklow C-045 Debbie Steinberg C-020 Oscar Schofield	2/13/2016	PAL	2/17/2016	PUQ
	Antarctic Data Repository for LMG16-01	C-019 William Fraser C-013 Doug Martinson C-021 Ari Friedlander C-024				
LMG16-02	To increase our understanding of current biogeography and diversity		2/21/2016	PUQ	2/27/2016	PAL
	by providing in-depth knowledge of soil community composition and complexity as it relates to environmental (above- and belowground) 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.	B-300	3/18/2016	PAL	3/24/2016	PUQ
LMG16-03	Antarctic Data Repository for LMG16-02 PALMER TURNOVER (XBT/XCTD)	N/A	3/29/2016	PUQ	4/2/2016	PAL
	Antarctic Data Repository for LMG16-03	-	4/9/2016	PAL	4/13/2016	PUQ

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 oceanic warming Antarctic Data Repository for LMG16-05	William Dietrich B-037	5/21/2016 6/17/2016	PUQ PAL	5/25/2016 6/21/2016	PAL PUQ
LMG16-06	To introduce students to the diversity of biological organisms in 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.	Donal Manahan B-301	6/25/2016 7/31/2016	PUQ PAL	6/29/2016 8/4/2016	PAL 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 Palmer Station Opening Antarctic Data Repository for LMG16-09	N/A	10/2/2016 10/13/2016	PUQ PAL	10/06/2016 10/17/2016	PAL PUQ
LMG16-10	Palmer Science Movements/Shirreff Opening	N/A	10/21/2016 11/1/2016	PUQ PAL	10/27/2016 11/05/2016	PAL PUQ
LMG16-11	Logistics Cruise	N/A	11/9/2016 11/25/2016	PUQ PAL	11/13/2016 11/29/2016	PAL PUQ
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 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. Antarctic Data Repository for LMG17-01	William Fraser C-013 Oscar Schofield C-019 Deborah Steinberg C-020 Doug Martinson C-021 Ari Friedlander C-024 Hugh Ducklow C-045	12/30/16 2/6/17	PUQ PAL	1/4/2017 2/10/2017	PAL PUQ
LMG17-02	This multi-platform field study will investigate the impact of coastal 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. 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. Antarctic Data Repository for LMG17-02	Josh Kohut B-005 Craig Smith B-212	2/14/2017 3/15/2017	PUQ PAL	2/18/2017 3/21/2017	PAL PUQ
LMG17-03	PALMER TURNOVER (XBT NB) 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. Antarctic Data Repository for LMG17-03	James Girton O-226	3/25/2017 4/5/2017	PUQ PAL	3/29/2017 4/9/2017	PAL PUQ
LMG17-04	To understand the physiological and biochemical mechanisms that define thermal tolerance of Antarctic notothenioids.	Kristin O'Brien B-036	4/13/2017 5/24/2017	PUQ PAL	4/19/2017 5/28/2017	PAL PUQ
	-	-	-			

CRUISE #	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
CKUISE #	(1) Characterization of the diurnal, and seasonal variability in the	Elizabeth Shadwick	Departure	FORT	Airivai	FORT
	CO2 system on the West Antarctic Peninsula continental shelf from	O-270				
	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.					
	Antarctic Data Repository for LMG17-04					
LMG17-05	DRY DOCK	N/A	6/8/2017	TAL	7/2/2017	TAL
LMG17-06	Compare miRNA regulation in 1) Antarctic vs. temperate fish to	John Postlethwait	7/12/2017	PUQ	7/16/2017	PAL
	learn the roles of miRNA regulation in adaptation to constant cold; and in 2) bottom-dwelling, red-blooded Nototheniods vs. high	B-029	7/29/2017	PAL	8/9/2017	PUQ
	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.					
	inineralization and increased lipid deposition.					
	Antarctic Data Repository for LMG17-06					
LMG17-07	Compare miRNA regulation in 1) Antarctic vs. temperate fish to	John Postlethwait	8/12/17	PUQ	8/16/17	PUQ
	learn the roles of miRNA regulation in adaptation to constant cold; and in 2) bottom-dwelling, red-blooded Nototheniods vs. high	B-029	8/29/17	PAL	9/2/17	PAL
	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.					
	Antarctic Data Repository for LMG17-07					
LMG17-08	This study seeks to better understand the spatial distribution of	Louis St. Laurent	9/8/2017	PUQ	9/18/2017	PUQ
	mixing rates that drive the MOC in this region, especially in the	O-204				
	currently under-sampled surface boundary layer (upper 1000 meters).					
	Antarctic Data Repository for LMG17-08					
LMG17-09	XBT/XCTD	N/A	10/2/2017	PUQ	10/06/2017	PAL
	Palmer Station Opening		10/13/2017	PAL	10/17/2017	PUQ
	Antarctic Data Repository for LMG17-09					
LMG17-10	Palmer Science Movements/Shirreff Opening (XBT)	N/A	10/21/2017	PUQ	10/26/2017	PAL
	Antarctic Data Repository for LMG17-10		10/31/2017	PAL	11/04/2017	PUQ
LMG17-11	Characterization of the diurnal, and seasonal variability in the CO2	Elizabeth Shadwick	11/14/2017	PUQ	11/18/2017	PAL
	system on the West Antarctic Peninsula continental shelf from	O-270	11/25/2017	PAL	11/29/2017	PUQ
	autonomous moored platforms.					
	Antarctic Data Repository for LMG17-11					
LMG17-12	LTER SITE VISIT	N/A	12/9/2017	PUQ	12/13/2017	PAL
	Antarctic Data Repository for LMG17-12		12/16/2017	PAL	12/20/2017	PUQ
LMG18-01	LTER-Long-Term Ecological Research To document/understand the phenology and variability in sea ice	William Fraser C-013	12/30/2017 2/8/2018	PUQ PAL	1/3/2018 2/12/2018	PAL PUQ
	dyamics, primary production, zooplankton ecology, Adelie	Oscar Schofield	21012010	FAL	211212010	ייטע
	penguin demography, microbial and biogeochemical processes	C-019				
	in the Antarctic marine ecosystem.	Deborah Steinberg				
		C-020				
		Doug Martinson C-021				
		Ari Friendlaender				
		C-024				
		Hugh Ducklow				
	Antarctic Data Repository for LMG18-01	C-045				
LMG18-02	New constraints on post glacial rebound and Holocene	Alexander Simms	2/16/2018	PUQ	2/20/2018	PAL
1	environmental history along the northern Antarctic Peninsula from	G-412	3/16/2018	PAL	3/21/2018	PUQ
	raised beaches.	Ari Friedlaandar				
	Foraging behavior and ecological role of the least studied Antarctic krill predator, the Antarctic minke whale.	Ari Friedlaender B-206				
	Antarctic Data Repository for LMG18-02					
LMG18-03	Palmer Station Turnover	N/A	3/24/2018	PUQ	3/30/2018	PAL
			4/4/2018	PAL	4/9/2018	PUQ
LMG18-04	Antarctic Data Repository for LMG18-03 To understand the molecular and physiological capacities of	William Datrick	4/13/2018	PUQ	4/19/2018	PAL
LIVIG 18-04	Antarctic notothenioid fishes to acclimatize and/or adapt to rapid	William Detrich B-037	4/13/2018 5/9/2018	PUQ PAL	5/15/2018	PAL
	oceanic warming through analysis of their underlying genomic and		2.2.2.3.0			
	transcriptomic "toolkits."					

CRUISE#	CRUISE by NAME	Pls	Departure	PORT	Arrival	PORT
CRUISE #	Investigate the ability of the leopard seal, an apex predator, to	Daniel Costa	Departure	PORT	AIIIVai	PORT
	cope with a changing environment using two complementary	B-232				
	research themes that integrates cells to ecosystems.					
111040.05	Antarctic Data Repository for LMG18-04		5/40/0040	DUIG	F (00 (00 4 0	DAI
LMG18-05	To understand the molecular and physiological capacities of Antarctic notothenioid fishes to acclimatize and/or adapt to rapid	William Detrich B-037	5/19/2018 6/15/2018	PUQ PAL	5/23/2018 6/19/2018	PAL PUQ
	oceanic warming through analysis of their underlying genomic and	D-037	0/10/2010	1712	0/10/2010	100
	transcriptomic "toolkits."					
	Antarctic Data Repository for LMG18-05					
LMG18-06	OPEN PERIOD	N/A	6/23/2018	PUQ	7/26/2018	PUQ
LMG18-07	OPEN PERIOD	N/A	7/27/2018	PUQ	9/25/2018	PUQ
LIVIO 10-07	of ENT ENGE	N/A	112112010	100	3/20/2010	100
LMG18-08	Palmer Station Opening (XBT)	N/A	10/2/2018	PUQ	10/6/2018	PAL
			10/13/2018	PAL	10/17/2018	PUQ
	Antarctic Data Repository for LMG18-08					
LMG18-09	Palmer Science Movements	N/A	10/21/2018	PUQ	10/25/2018	PAL
			10/30/2018	PAL	11/3/2018	PUQ
	Antarctic Data Repository for LMG18-09					
LMG18-10	The science team will apply new, highly sensitive techniques using	Benjamin Van Mooy	11/7/2018	PUQ	11/11/2018	PAL
	high-mass-resolution mass spectrometry to understand the	B-032	11/28/2018	PAL	12/2/2018	PUQ
	connections between UVR, ROS, oxylipins, and carbon cycling.					
	(XBT)					
	Antarctic Data Repository for LMG18-10					
LMG18-11	The objectives of this work are 1) to quantify and understand	George Watters	12/7/2018	PUQ	12/12/2018	PAL
	interactions between krill, krill predators (e.g., penguins and seals), and the Antarctic krill fishery; 2) to estimate krill flux through and	B-006	12/16/2018	PAL	12/20/2018	PUQ
	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					
LMG19-01	Antarctic Data Repository for LMG18-11 LTER-Long-Term Ecological Research	Marin Farana	12/30/2018	PUQ	1/3/2019	PAL
LIVIG 19-01	To document/understand the phenology and variability in sea ice	William Fraser C-013	2/8/2019	PAL	2/12/2019	PUQ
	dyamics, primary production, zooplankton ecology, Adelie penguin	C-013	2/0/2010	. ,	2, 12,2010	. 54
	demography, microbial and biogeochemical processes in the	Oscar Schofield				
	Antarctic marine ecosystem.	C-019				
		Deborah Steinberg C-020				
		Doug Martinson				
		C-021				
		Ari Friedlaender				
		C-024				
		Hugh Ducklow				
	Antonia Poto Por eliterator IMC12 21	C-045				
LMG19-02	Antarctic Data Repository for LMG19-01 To reconstruct the record of Quaternary sea-level changes within	Alexander Simms	2/16/2019	PUQ	2/21/2019	PAL
LIVIG 18-02	the South Shetland Islands	G-412	3/15/19	POQ	3/21/2019	PUQ
			3, 10, 10			. • •
	To use a suite of new technological tools to measure the underwater					
	behavior of the whales and better understand how they exploit the	B-206				
	sea-ice habitat.					
	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.					
114046.55	Antarctic Data Repository for LMG19-02	N/A	0/05/05/5	DI IC	0/00/00:10	541
LMG19-03	Palmer Turnover	N/A	3/25/2019 4/5/2019	PUQ PAL	3/29/2019 4/9/2019	PAL PUQ
LMG19-04	Investigate the ability of the leopard seal, an apex predator, to cope	Daniel Costa	4/14/2019	PUQ	4/18/2019	PAL
	with a changing environment using two complementary research	B-232	5/23/2019	PAL	5/28/2019	PUQ
	themes that integrates cells to ecosystems.					
	To quantiatively decument magraphs a seminative at multiple site-					
	To quantiatively document macroalgal communities at multiple sites between Anvers and Adelaide islands using a combination of diving,	Charles Amsler				
	video surveys, and algal collections.	B-236				
	Antarctic Data Repository for LMG19-04		j l			

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 Toposite	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 LMG19-08	OPEN PERIOD Palmer Opening (XBT)	N/A N/A	8/6/2019 10/2/2019	PUQ PUQ	9/25/2019	PUQ PAL
LIVIG 19-06	Antarctic Data Repository for LMG19-08	N/A	10/2/2019	PAL	10/17/2019	PUQ
LMG19-09	Palmer Science Movements	Gail Scowcraft	10/21/2019	PUQ	10/25/2019	PAL
	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.	Y-604	10/31/2019	PAL	11/4/2019	PUQ
	This project continues the field development of an autonomous surface vehicle (https://www.liquid-robotics.com/wave-glider/overview/) to better measure and study these processes in the remote Southern Ocean, where continuous timeseries measurements are otherwise very difficult to obtain. Antarctic Data Repository for LMG19-09	James Girton O-202				
LMG19-10	This project has two goals. The first is to investigate the responses 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) Antarctic Data Repository for LMG19-10	Marc Weissburg B-198	11/08/2019 11/21/2019	PUQ PAL	11/16/2019 11/25/2019	PAL PUQ
LMG19-11	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. The first is to investigate the responses of Antarctic krill Euphasia superba to flow and chemical stimuli indicating food and predation	George Watters B-006 Marc Weissburg B-198	12/2/2019 12/16/2019	PUQ PAL	12/8/2019 12/20/2019	PAL PUQ
	risk, the interaction of these ues, 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.	B-190				
	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 LMG19-11	Douglas Krause X-591				
LMG20-01	LTER-Long-Term Ecological Research (XBT) This project will integrate a modeling and field program that will target the processes responsible for transporting and concentrating phytoplankton and krill biomass to known penguin foraging locations.	Josh Kohut B-005	12/30/2019 2/8/2020	PUQ PAL	1/3/2020 2/12/2020	PAL PUQ
	To document and understand the phenology and variability in water 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 ecosystem response to rapid climate change.	William Fraser C-013 Oscar Schofield C-019 Deborah Steinberg C-020 Douglas Martinson C-021 Ari Friedlaender C-024 Hugh Ducklow C-045				
	Processes driving spatial and temporal variability of surface pCO2 in the Drake Passage.	O-214				

CRUISE #	CRIUSE by NAME	Pls	Doporturo	DODT	Arrival	PORT
- CKUISE #	CRUISE by NAME This project continues a long-term study of ocean properties and	Teri Chereskin	Departure	PORT	Arrival	PORT
	variability in the Antarcitc Circumpolar Current (ACC) by repeat	O-317				
	transects across the Drake Passage from Punta Arenas, Chile to	0-317				
	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
LIVIOZO-02	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).	G-034	0/14/2020	171	0/2 1/2020	100
	on clotation areas on the western that each to time and (1771).					
	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.	D-040				
	onvironmental gradient nem eas y maretie to y maretie nastate.					
	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.					
	T (
	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).					
	Antarctic Data Repository for LMG20-02					
LMG20-03	Palmer Turnover (XBT)	N/A	6/3/2020	PUQ	6/10/2020	PAL
LIVIOZO-00	amor ramover (ABT)	IV/A	6/17/2020	PAL	6/21/2020	PUQ
	Antarctic Data Repository for LMG20-03		0/11/2020	1712	0/21/2020	. 00
LMG20-04	OPEN PERIOD	N/A	6/27/2020	PUQ	7/19/2020	PUQ
LMG20-05	OPEN PERIOD	N/A	7/20/2020	PUQ	8/19/2020	PUQ
LMG20-06	OPEN PERIOD	N/A	8/20/2020	PUQ	9/24/2020	PUQ
LMG20-07	OPEN PERIOD	N/A	9/25/2020	PUQ	9/30/2020	PUQ
LMG20-08	OPEN PERIOD	N/A	10/1/2020	PUQ	10/4/2020	PUQ
LMG20-09	OPEN PERIOD	N/A	10/5/2020	PUQ	11/26/2020	PUQ
LMG20-10	Palmer Station Opening	N/A	11/27/20	PUQ	12/4/20	PAL
	· · ·		12/25/20	PAL	12/29/20	PUQ
	Antarctic Data Repository for LMG20-10	<u> </u>				
LMG21-01	OPEN PERIOD	N/A	1/2/2021	PUQ	2/2/2021	PUQ
LMG21-02	OPEN PERIOD	N/A	2/3/2021	PUQ	3/18/2021	PUQ
LMG21-03	OPEN PERIOD	N/A	3/19/2021	PUQ	4/29/2021	PUQ
LMG21-04	Palmer Station Turnover	N/A	5/1/2021	PUQ	5/11/2021	PAL
			5/24/2021	PAL	5/29/2021	PUQ
	Antarctic Data Repository for LMG21-04		1			
LMG21-05	OPEN PERIOD	N/A	6/4/2021	PUQ	6/19/2021	PUQ
LMG21-06	OPEN PERIOD	N/A	6/20/2021	PUQ	7/1/2021	PUQ
LMG21-07	OPEN PERIOD	N/A	7/4/2021	PUQ	8/19/2021	PUQ
LMG21-08	OPEN PERIOD	N/A	8/20/2021	PUQ	9/2/2021	PUQ
LMG21-09	OPEN PERIOD	N/A	9/3/2021	PUQ	9/25/2021	PUQ
LMG21-10	Palmer Station Opening	Ari Friedlaender	10/4/2021	PUQ	10/11/2021	PAL
	This project will deploy two acoustic moorings to record sound	C-024	10/20/2021	PAL	10/27/2021	PUQ
	impacts prior to, during and after Palmer Station pier construction. Antarctic Data Repository for LMG21-10					
LMG21-11	Pier Construction Support (XBT)	N/A	12/19/2021	PUQ	12/26/2021	PAL
LIVIOZ I-II	The Constitution Support (ADT)	17/7	12/19/2021	PAL	1/3/2022	PUQ
	Antarctic Data Repository for LMG21-11		12,20,2021	1 / 1	1,0,2022	, 00
	and the second of the second o					

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
LIVIGZ I- IZ	The objectives of this work are 1) to quantify and understand		3/10/2022	POQ	3/8/2022	PUQ
	interactions between krill, krill predators (e.g., penguins and seals),	B-006	3/10/2022	FAL	3/ 10/2022	רטע
	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.					
	Antarctic Data Repository for LMG22-02					
LMG22-03	OPEN PERIOD	N/A	4/14/2022	PUQ	4/20/2022	PUQ
LMG22-04	Palmer Station Turnover	Ari Friedlaender	4/21/2022	PUQ	4/28/2022	PAL
		C-024	5/6/2022	PAL	5/11/2022	PUQ
	This project will deploy two acoustic moorings to record sound					
	impacts prior to, during and after Palmer Station pier construction.					
111000 00	Antarctic Data Repository for LMG22-04	N/A	E14010000	Di io	E/4.4/0000	DI IC
LMG22-05	OPEN PERIOD	N/A	5/12/2022	PUQ	5/14/2022	PUQ
LMG22-06	Pier Construction Support	N/A	5/15/2022	PUQ	5/22/2022	PAL
1 14000 07	ODEN DEDIOD	N/A	5/26/2022	PAL	5/30/2022	PUQ
LMG22-07	OPEN PERIOD	N/A	5/31/2022	PUQ	6/3/2022	PUQ
LMG22-08a	Transit	N/A	6/6/2022	PUQ	6/13/2022	TAL
LMG22-08b	Drydock	N/A	6/13/2022	TAL	7/12/2022	TAL
LMG22-08c	Transit	N/A	7/12/2022	PUQ	7/18/2022	PUQ
LMG22-09	OPEN PERIOD	N/A	7/22/2022	PUQ	8/15/2022	PUQ
LMG22-10	OPEN PERIOD	N/A	8/16/2022	PUQ	9/27/2022	PUQ
LMG22-11	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	Douglas Krause				
	supports United States interests related to resource management by	X-591				
	the Commission for the Conservation of Antarctic Marine Living					
	Resources (CCAMLR).					
111225	Antarctic Data Repository for LMG22-11		10/01/07	F:::6	44/60/2	F
LMG22-12	OPEN PERIOD	N/A	10/24/2022	PUQ	11/23/2022	PUQ
LMG22-13	Palmer Science Movements	Marc Weissburg	11/28/2022	PUQ	12/4/2022	PAL
	Pier Construction Support	B-198	12/13/2022	PAL	12/17/2022	PUQ
	This project has two goals. The first is to investigate the responses					
	of Antarctic krill Euphasia superba to flow and chemical stimuli					
	indicating food and predation risk, the interaction of these cues, and		1			
	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		1			
	affected by light intensity.					
	, g					
	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		1			
	standing biomass in areas where krill, predators, and the fishery		1			
	overlap in space and time; and 3) to identify sustainable harvest		1			
	strategies for the krill fishery.					
LMG23-01	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),	Benjamin Van Mooy	1			
	and the Antarctic krill fishery; 2) to estimate krill flux through and	C-045				
	standing biomass in areas where krill, predators, and the fishery	Ari Friedlander				
	overlap in space and time; and 3) to identify sustainable harvest	C-024				
	strategies for the krill fishery.	Carlos Moffat				
		C-021				

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				
	discharge around the Antarctic continent by having an observational	O-263				
	deployment to measure a specific, previously identified example of a					
	coastal freshwater-driven current, the Antarctic Peninsula Coastal Current.					
	To address the sensitive and ecological role of the Western	Jeff Bowman				
	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.					
LMG33 35	Polymore Octions of Management		0/40/0000	DUIC	0/4/4/0000	DA
LMG23-02	Palmer Science Movements This project will compare adaptations, genome sequences, and	Nicholas Teets B-046	2/10/2023 3/16/2023	PUQ PAL	2/14/2023 3/20/2023	PAL PUQ
	population characteristics of four midge species that span an	D-040	3/10/2023	IAL	3/20/2023	100
	environmental gradient from sub-Antarctic to Antarctic habitats.					
	This project will integrate a modeling and field program that will target the processes responsible for transporting and concentrating	Josh Kohut				
	phytoplankton and krill biomass to known penguin foraging	B-005				
	locations.					
	One glider from the Moffat project, O-263 event was successfully recovered. Two gliders were recovered from around Low and	Carlos Moffat O-263				
	Hoseason Island for the NOAA, Watters B-006 group.	George Watters				
	,	B-006				
	Antarctic Data Repository for LMG23-02					
LMG23-03	Palmer Station Closing	N/A	3/26/2023	PUQ	3/31/2023	PAL
LMG23-04	Antarctic Data Repository for LMG23-03 Palmer Science Movements	Kristin O'Brien	4/7/2023 4/15/2023	PAL PUQ	4/11/2023 4/19/2023	PUQ PAL
LIVIO25-04	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
	The research is centered on two overarching objectives: (1) to experimentally determine the effect of diet (herbivory versus	B-459 Luis Huckstadt	6/22/2023	PAL	6/26/2023	PUQ
	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				
LMC00.00	Antarctic Data Repository for LMG23-05	Distractives	7/5/0000	DLIO	7/04/0000	DUO
LMG23-06	Palmer Science Movements Ocean warming in the western Antarctic Peninsula and Scotia Sea	Richard Veit B-319	7/5/2023	PUQ	7/31/2023	PUQ
	winter is among the highest worldwide. The goal of researchers on	5-010				
	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.					
LMC00.07	Antarctic Data Repository for LMG23-06	NI/A	0/40/0000	DLIO	0/20/2022	DUO
LMG23-07 LMG23-08	OPEN PERIOD OPEN PERIOD	N/A N/A	8/10/2023 8/31/2023	PUQ PUQ	8/30/2023 9/28/2023	PUQ PUQ
LIVIGZ3-00	סי בויז בויוסט	IVA	0/0/1/2023	ı⁻∪Q	312012023	i UQ

R/V LAURENCE M. GOULD Cruise History

Last Update: 8/27/2024

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	Bouvard Hosticka T-998	10/5/2023 10/20/2023	PUQ PAL	10/11/2023 10/24/2023	PAL PUQ
	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. This project continues a long-term study of ocean properties and	Teri Chereskin				
	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.	0-317				
	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.	Megan Cimino C-013 Deborah Steinberg C-020 Benjamin Van Mooy C-045	10/30/2023 11/10/2023	PUQ PAL	11/4/2023 11/14/2023	PAL PUQ
	To address the sensitive and ecological role of the Western Antarctic Peninsula (WAP) microbial loop through a series of 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.	Jeff Bowman B-285				
	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. Antarctic Data Repository for LMG23-10					
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	Magan Cimina	12/20/2023	PUQ	12/24/2023	PAL
LIVIG24-UT	The objective of this work is to seek to gain new mechanistic and	Megan Cimino C-013	12/20/2023	PAL	1/25/2024	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					
	"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	David Munro				
	(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	O-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
LMG24-03	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	O-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.					
LMG24-05	OPEN PERIOD	N/A	4/16/2024	PUQ	4/30/2024	PUQ
LMG24-06	OPEN PERIOD	N/A	5/1/2024	PUQ	5/31/2024	PUQ
LMG24-07	TRANSIT TO DRY DOCK	N/A	6/1/2024	PUQ	7/2/2024	USTPA
N/A	END OF CHARTER WITH NSF	N/A	N/A	N/A	7/16/2024	USTPA