

XV. Oceanography- Government

Section XV of the Modifications of Activities Planned for 2002-2003 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 2002-2003 season.

Note: For actual tracks of the Research Vessels *Nathaniel B. Palmer* and *Laurence M. Gould* please see Attachment C, Cruise Tracks.

R/V Nathaniel B. Palmer

The *R/V Nathaniel B. Palmer* made nine science cruises during the period of 30 March 2002 through 31 March 2003. Cruises are:

Cruise NBP02-02

09 April – 21 May 2002: Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC) *Circulation and Water Property Evolution*.

BG-247-O (Wiebe)

OG-231-O (Hofmann)

OG-240-O (Hofmann)

BG-246-O (Vernet)

OG-233-O (Fanning)

BG-236-O (Daly)

OG-238-O (Padman)

BG-239-O (Hildebrand)

BG-243-O (Ribic)

Cruise NBP02-03

25 May – 24 July 2002 Dry Dock and Maintenance Period, Talcahuano, Chile

Cruise NBP02-04

31 July-18 September 2002: Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC) *Circulation and Water Property Evolution*.

BG-247-O (Wiebe)

BG-236-O (Daly)

OG-231-O (Beardsley)

OG-233-O (Fanning)

BG-235-O (Fritsen)

OG-238-O (Padman)

OG-240-O (Hofmann)

BG-243-O (Ribic)

BG-245-O (Torres)

BG-246-O (Vernet)

Cruise NBP02-05

23 September –19 October 2002: Bride of TABASCO: *Latitudinal Effects of UVR on bacterioplankton*.

BO-200-O (Jeffrey)

Cruise NBP02-05a

19 October- 28 October 2002 Maintenance Period, San Diego, CA

Cruise NBP02-06

29 October- 03 November 2002 Seismic System Testing

Cruise NBP2-06a

03 November – 08 November 2002: Simrad multibeam and dynamic position text/Coring, at sea, Port Hueneme

Cruise NBP02-07

10 November– 06 December 2002: *Late Cretaceous and Cenozoic Reconstruction of the Southwest Pacific*

GO-071-O (Cande)

Cruise NBP02-08 Open Period at Lyttelton, New Zealand

06 December – 11 December 2002

Cruise NBP02-09

12 December 2002- 01 January 2003: *Late Cretaceous and Cenozoic Reconstruction of the Southwest Pacific*

GO-071-O (Cande)

Cruise NBP03-01

05 January- 30 January 2003 *McMurdo Ice Edge: Antarctic Cretaceous-Cenozoic Climate, Glaciation, and Tectonics: Site surveys for drilling from the edge of the Ross Ice Shelf*

GO-152-O (Bartek, Luyendyk)

Cruise NBP03-01a

02 February-20 February 2003: *CAREER: Relative frequency and phase of extreme expansions of the Antarctic ice sheets during the late Neogene*

GO-154-O (Bart)

Cruise NBP03-1b

20 February- 22 February 2003: *Inter-annual Variability in the Antarctic-Ross Sea: Nutrient fields and seasonal productivity II (IVARS) Mooring Recovery Support*

BO-047-O (W.O. Smith)

Cruise NPB03-02

25 February- 04 April 2003: *Collaborative Research: Cross Slope Exchanges at the Antarctic Slope Front (ANSLOPE I)*

OO-215-O (Gordon)

Biology & Medicine

Principal Investigator	Event	Institution
Daly (+4)	BG-236-O	University of Southern Florida
Fritsen (+1)	BG-235-O	Desert Research Institute
Hildebrand (+2)	BG-239-O	Scripps Institute of Oceanography
Ribic (+3)	BG-243-O	University of Wisconsin, Madison
Torres (+4)	BG-245-O	USF, College of Marine Science
Vernet (+3)	BG-246-O	USCD
Wiebe (+13)	BG-247-O	Woods Hole Oceanographic Inst.
Zhou (+2)	BG-248-O	University of Massachusetts

Oceans and Climate

Principal Investigator	Event	Institution
Beardsley (+14)	OG-231-O	Woods Hole Oceanographic Inst.
Fanning (+4)	OG-233-O	University of Southern Florida
Gordon (+24)	OO-215-O	Columbia University LDEO
Hofmann (+8)	OG-240-O	Old Dominion
Jeffrey (+7)	BO-200-O	University of West Florida
Padman (+1)	OG-238-O	Earth & Space Research
Smith,WO (+12)	BO-047-O	VIMS, College of William & Mary

Geology & Geophysics

Principal Investigator	Event	Institution
Bart (+7)	GO-154-O	LA State University, Baton Rouge
Bartek (+18)	GO-152-O	University of NC, Chapel Hill
Cande (+12)	GO-071-O	Scripps Institute of Oceanography

R/V Laurence M. Gould

The *R/V Laurence M. Gould* made thirteen science cruises and passenger transports to the Antarctic Peninsula during the period of 31 March 2002 through 1 April 2003.

Cruise LMG02-03

29 March – 20 May 2002: Southern GLOBEC: *Foraging Ecology of Crabeater Seals; Seabird Ecology using Observations and Diet Samples; Krill Distribution; Krill age and dietary history; Mysticete Whale Acoustic Census, Copepod Prey Abundance*

BG-232-O (Costa)

BG-234-O (Fraser)

BG-236-O (Daly)

BG-237-O (Harvey)

BG-245-O (Torres)

BG-248-O (Zhou)

Cruise LMG02-04 Dry Dock and Maintenance, Talcahuano, Chile

25 May- 30 June 2002

Cruise LMG02-04a Palmer Station Shuttle

05 July-23 July 2002

Cruise LMG02-04b Open Period

24 July – 29 July 2002 Punta Arenas, Chile

Cruise LMG02-05

29 July- 18 September 2002: Southern GLOBEC: *Foraging Ecology of Crabeater Seals; Seabird Ecology using Observations and Diet Samples; Winter Distribution and Activities of Sea-ice Microbial Communities in the Western Antarctic Peninsula; Optical Environmental; Winter Ecology of Larval Krill*

BG-232-O (Costa)

BG-235-O (Fraser)

BG-235-O (Fritsen)

OG-241-O (Martinson)

BG-244-O (Ross)

Cruise LMG02-06

23 September-07 October 2002: Palmer Station Shuttle #1

Cruise LMG02-07

11 October- 16 October 2002: Palmer Station Shuttle #2: COPA field Camp:

Foraging Behavior and Demography of Pygoscelis Penguins

BO-040-O (Trivelpiece)

Cruise LMG02-07a Open Period

25 October-02 November 2002 Punta Arenas, Chile

Cruise LMG02-08

03 November-17 November 2002: Cape Shirreff Field Camp opening

OO-283-O (Stearns)

BO-040-O (Trivelpiece)

Cruise LMG02-09

23 November-23 December 2002 The Scotia Arc GPS Project: *Focus on the Antarctic Peninsula and South Shetland Islands*; AMS radiocarbon chronology of glacier fluctuations in the South Shetland Islands during the last glacial/interglacial hemicycle: *Implications for the role of Antarctica in global climate change*

GO-080-O (Taylor)

IO-196-L (Hall)

Cruise LMG03-01

31 December-08 February 2003: Long-Term Ecological Research on the Antarctic Marine Ecosystem: *An Ice-Dominated Environment (LTER)*

BP-013-O (Fraser)

BP-016-O (Vernet)

BP-021-O (Martinson)

BP-028-O (Quetin, Ross)

BP-032-O (R.Smith)

BP-045-O (Ducklow)

Cruise LMG03-02

13 February-07 March 2003: Southern Ocean Global Ocean Ecosystems Dynamics (SO GLOBEC): *Mysticete Whale Acoustic Census in the GLOBEC West Antarctic Project Area; Circulation and Water Property Evolution*

BP-239-O (Hildebrand)

OG-231-O (Beardsley)

Cruise LMG03-03

12 March-30 March 2003: Development of a luminescence dating capability for Antarctic glaciomarine sediments: *Tests of signal zeroing of the Antarctic peninsula*

GO-092-O (Berger)

Biology & Medicine

Principal Investigator	I.D. No.	Institution
Amsler (+7)	BO-022-O	University of Alabama, Birmingham
Costa (+9)	BG-232-O	University of California, Santa Cruz
Daly (+4)	BG-236-O	University of Southern Florida
Ducklow (+4)	BP-032-P	College of William & Mary
Ducklow (+4)	BP-045-L	College of William & Mary
Fraser (+3)	BG-234-O	Polar Oceans Research Group
Fraser (+6)	BP-013-O	Polar Ocean Research Group
Fritzen (+4)	BG-235-O	Desert Research Institute
Harvey (+2)	BG-237-O	Chesapeake Bio Lab, UMCES
Hildebrand (+6)	BG-239-O	Scripps Inst. of Oceanography
Murray (+3)	BO-179-O	DRI, Earth & Ecosystem Sciences
Ross (+9)	BP-028-O	University of Ca, Santa Barbara
Ross-Quetin (+8)	BG-244-O	University of California, Santa Barbara
Torres (+5)	BG-245-O	University of South Florida
Trivelpiece (+4)	BO-040-O	Montana State University

Vernet (+8)	BP-016-L	UCSD/SIO
Wiebe (+1)	BG-247-O	Woods Hole Oceanographic Inst.
Zhou (+4)	BG-248-O	University of Massachusetts

Glaciology

Principal Investigator	I.D. No.	Institution
Hall, Brenda (+1)	IO-196-O	University of Maine

Ocean & Climate

Principal Investigator	I.D. No.	Institution
Beardsley (OG-231-O	Woods Hole Oceanographic Inst.
Martinson (+2)	OG-241-O	Lamont Doherty Earth Observatory
Stearns (+0)	OO-283-O	University of Wisconsin
Taylor (+3)	GO-080-O	University of Texas, Austin

R/V Yuzhmorgeologiya

Information on cruises conducted by the R/V *Yuzhmorgeologiya* on behalf of NOAA's Antarctic Marine Living Resources field program is not available at this time. The "AMLR 2002/2003 Field Season Report" will be available later in the fall. Contact the following address for a copy of the printed report:

Southwest Fisheries Service Center
National Marine Fisheries Service
National Oceanic & Atmospheric Administration
P.O. Box 271
La Jolla, CA 92038

Note: See Appendix III for complete list of scientific personnel for each I.D. No.