

XV. Oceanography- Government

Section XV of the Modifications of Activities Planned for 2006-2007 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 2006-2007 season.

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 seven science cruises during the period of 31 March 2006 through 31 March 2007. Cruises are:

Cruise NBP06-03

11 April 2006 – 06 May 2006 Punta Arenas, Chile

Collaborative Research: Paleohistory of the Larsen Ice Shelf System: Phase II

G-096-N (Domack)

Cruise NBP06-03A and NBP06-04

06 June 2006-15 August 2006 Punta Arenas, Chile

Open Period

Note: there was no Cruise NBP06-05

Cruise NBP06-06

03 July 2006-15 August 2006 Punta Arenas, Chile and Chilean Fjords

*Collaborative Research IPY: Plankton Community Structure and Iron Distribution in the
Southern Scotia Sea*

B-228-N (Mitchell)

Cruise NBP06-07

18 August 2006-27 August 2006 Punta Arenas, Chile

Open Period

Cruise NBP06-07A

28 August 2006 –22 September 2006 transit from Punta Arenas, Chile to Lyttelton,
New Zealand

Collection of marine geophysical data on transits of the R/V Nathaniel B. Palmer

G-071-N (Stock/Cande)

Cruise NBP06-07B

24 September 2006-09 October 2006 Lyttelton, New Zealand

Open

Cruise NBP06-07C

10 October 2006-24 October 2006 MCS Sea Trials Lyttelton, New Zealand

Cruise NBP06-08

01 November 2006-16 December 2006 Lyttelton, New Zealand

Interaction of iron, light and CO₂ on phytoplankton community dynamics in the Ross Sea

B-272-N (DiTullio)

Cruise NBP07-01

22 December 2006-29 January 2007 Lyttelton, New Zealand to McMurdo Station

Collaborative Research-The connection between mid-Cenozoic seafloor spreading and the western Ross Sea Embayment

G-413-N (Cande)

Cruise NBP07-02

03 February 2007-26 March 2007 McMurdo Station to Punta Arenas, Chile

*The Amundsen Continental Shelf and the Antarctic Ice Sheet;
Cape Adair Long-term Mooring (CALM)*

O-274-N Jacobs

O-399-N Huber

Cruise NBP07-03

31 March 2007-30 April 2007 Punta Arenas, Chile

*Collaborative Research: SHALDRIL-A demonstration drilling cruise in the James Ross Basin;
Controls on Sediment yields from Tidewater Glaciers from Patagonia to Antarctica*

G-411-N (Anderson/Hallet)

Biology & Medicine

Principal Investigator	Event	Institution
Dr. Greg Mitchell	B-228-N	Scripps Oceanography Institute, UCSD
Dr. Giacomo DiTullio	B-272-N	Grice Marine Lab

Oceans and Climate

Principal Investigator	Event	Institution
Dr. Stan Jacobs	O-274-N	Lamont-Doherty Earth Observatory
Dr. Bruce Huber	O-399-N	Lamont-Doherty Earth Observatory

Geology & Geophysics

Principal Investigator	Event	Institution
Dr. John Anderson	G-083-N	Rice University
Dr. Joann Stock	G-071-N	California Institute of Technology
Dr. Bernard Hallet	G-435-N	University of Washington
Dr. Steve Cande	G-413-N	University of California, San Diego
Dr. Eugene Domack	G-096-N	Hamilton College

R/V Laurence M. Gould

The *R/V Laurence M. Gould* made four science cruises and Palmer Station opening/ transports in the Antarctic Peninsula during the period of 31 March 2006 through 31 March 2007.

Cruise LMG06-04

23 April 2006-06 May 2006

Palmer Turnover

Cruise LMG06-05

11 May 2006-12 June 2006

Relevance of planktonic larval dispersal to endemism and biogeography of Antarctic benthic invertebrates

B-281-L (Halanych)

Cruise LMG06-08 and LMG06-07

17 June 2006-27 July 2007

Palmer Station shuttle and Open period

Cruise LMG06-08

05 August 2006-16 August 2006

Southbound Transit to Palmer Station

Cruise LMG06-09

18 August 2006-10 September 2006

Open Period

LMG06-10

15 September 2006-30 September 2006

Palmer Station Opening

Cruise LMG06-11

05 October 2006-22 October 2006

*Foraging behavior and demography of *Pygoscelis penguins**

COPA Opening B-040-E (Trivelpiece)

Cruise LMG06-12

31 October 2006-17 November 2006

Long-term data collection at select Antarctic Peninsula visitor sites

(Cape Shirreff Field Camp Put-in/Opening)

B-086-E (Naveen)

O-214-L (Sweeney)

Cruise LMG06-13

21 November 2006-12 December 2006

NSF Operations

Cruise LMG06-14

16 December 2006-30 December 2006

Palmer Shuttle

Cruise LMG07-01

04 January 2007-12 February 2007

*Long Term Environmental Research (LTER), Physiological and Molecular Mechanisms of Stress
Tolerance in a Polar Insect*

B-013-L/P (Fraser)

B-016-L/P (Vernet)

B-028-L/P (Ross-Quetin, Quetin)

B-032-L/P (R.Smith)

B-045-L/P (Ducklow)

B-050-L (Smith, K.)

B-256-P (Lee)

Cruise LMG07-02 and LMG07-03

08 March 2007-04 April 2007

Palmer Shuttle and Palmer Turnover

Biology & Medicine

Principal Investigator	I.D. No.	Institution
Dr. Robin Ross-Quetin	B-028-L	University of California, Santa Barbara
Dr. Wayne Trivelpiece	B-040-L	Antarctic Ecosystem Research Center (AMLR)
Dr. William Fraser	B-013-L	Polar Oceans Research Group
Dr. Ron Naveen	B-086-E	Oceanites, Inc.
Dr. James Hollibaugh	B-114-L	University of Georgia
Dr. Kenneth Smith	B-050-L	University of Calif., San Diego
Dr. Hugh Ducklow	B-045-L	Va. Institute of Marine Science
Dr. Raymond Smith	B-032-L	University of Calif., Berkeley
Dr. Richard Lee	B-256-P	Miami University
Dr. Maria Vernet	B-016-L	University of Calif., San Diego
Dr. Langdon Quetin	B-028-L	University of Calif., Santa Barbara
Dr. Ken Halanych	B-281-L	Auburn University

Ocean & Climate

Principal Investigator	I.D. No.	Institution
Dr. Colm Sweeney	O-214-L	NOAA