

## **XV. Oceanography- Government**

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*Section XV of the Modifications of Activities Planned for 2005-2006 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 2005-2006 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 eight science cruises during the period of 31 March 2005 through 31 March 2006. Cruises are:

#### **Cruise NBP05-02**

31 March 2005-24 April 2005 Punta Arenas, Chile

*Shallow Drilling on the Antarctic Continental Margin (SHALDRIL)*

G-083-N (Anderson)

#### **Cruise NBP05-03**

04 May 2005-19 June 2005 Punta Arenas, Chile

*Open Period*

Note: there was no Cruise NBP05-04

**Cruise NBP05-05**

23 June 2005-15 July 2005 Punta Arenas, Chile and Chilean Fjords

*Collaborative Research: Controls on Sediment Yields from Tidewater Glaciers from Patagonia to Antarctica*

G-435-N (Hallet)

**Cruise NBP05-06**

20 July 2005-18 September 2005 Punta Arenas, Chile

*Maud Rise Non-linear Equation of State Study (MaudNESS)*

O-325-N (McPhee)

**Cruise NBP05-07**

23 September 2005 – 16 October 2005 Transit from Punta Arenas, Chile to Lyttelton, New Zealand

*Late Cretaceous and Cenozoic Reconstruction of the Southwest Pacific*

G-071-N (Stock/Cande)

**Cruise NBP05-08**

21 October 2005-07 December 2005 Lyttelton, New Zealand and McMurdo Station

*Interactive Effects of UV Radiation and Vertical Mixing in the Ross Sea*

B-203-N (Neale)

B-002-N (Kiene)

B-266-N (Kieber)

B-200-N (Jeffrey)

B-206-N (Goes)

B-207-N (Gast)

B-208-N (Gargett)

**Cruise NBP06-01**

12 December 2005-20 January 2006 McMurdo Station

*Interaction of iron, light and CO<sub>2</sub> on phytoplankton community dynamics in the Ross Sea, IVARS mooring*

B-272-N (DiTullio)

**Cruise NBP06-02 Transit**

27 January 2006-16 February 2006 McMurdo Station to Punta Arenas, Chile

*Late Cretaceous and Cenozoic Reconstruction of the Southwest Pacific*

G-071-N (Stock/Cande)

**Cruise NBP06-02A**

21 February 2006-29 March 2006 Punta Arenas, Chile

*Shallow Drilling on the Antarctic Continental Margin (SHALDRIL)*

G-083-N (Anderson)

**Biology & Medicine**

<b>Principal Investigator</b>	<b>Event</b>	<b>Institution</b>
Dr. Patrick Neale	B-203-N	Smithsonian
Dr. Ronald P. Kiene	B-002-N	University of South Alabama
Dr. Joaquim Goes	B-203-N	Bigelow Marine Laboratory
Dr. Rebecca Gast	B-207-N	WHOI
Dr. David Kieber	B-266-N	State University of New York, Syracuse
Dr. Ann Gargett	B-208-N	Center Coastal Physical Oceanography
Dr. Giacomo DiTullio	B-272-N	Grice Marine Lab
Dr. Rob Dunbar	B-258-N	Stanford University
Dr. Pete Sedwick	B-267-N	Bermuda Biological Station
Dr. Dave Hutchins	B-279-N	University of Delaware
Dr. Philippe Tortell	B-282-N	University of British Columbia
Dr. Walker Smith	B-386-N	Va. Institute of Marine Science

## **Oceans and Climate**

<b>Principal Investigator</b>	<b>Event</b>	<b>Institution</b>
Dr. Mak Saito	O-398-N	WHOI
Dr. Miles McPhee	O-325-N	McPhee Research Company

## **Geology & Geophysics**

<b>Principal Investigator</b>	<b>Event</b>	<b>Institution</b>
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-071-N	University of California, San Diego

## ***R/V Laurence M. Gould***

The *R/V Laurence M. Gould* made seven science cruises and Palmer Station opening/ transports in the Antarctic Peninsula during the period of 31 March 2005 through 31 March 2006.

### **Cruise LMG05-05 and LMG05-06**

20 April – 12 May 2005 and 18 May – 9 June 2005

*Cold body Temperature as an Evolutionary Shaping Force in the Physiology of Antarctic Fishes*

B-036-L (Sidell)

### **Cruise LMG05-07**

13 June – 28 June 2005

*Tracers of Biological Productivity and Gas Exchange*

O-271-L (Emerson)

**Cruise LMG05-08**

3 July -31 July 2005

*Northbound Hazardous Waste Run to Port Hueneme, CA*

**Cruise LMG05-09**

15 August – 11 September 2005

*Southbound Transit to Punta Arenas, Chile*

Note: there was no LMG05-10 cruise

**Cruise LMG05-11**

16 September – 29 September 2005

*Palmer Station Opening*

**LMG05-11A Dry Dock 1 Oct – 19 Oct 2005**

**Cruise LMG05-12 (Note: there is no LMG05-13)**

22 October 2005 – 3 November 2005

COPA Opening B-040-E (Trivelpiece)

**Cruise LMG05-14**

7 November – 21 November 2005

*Long-Term Data Collection at Select Antarctic Peninsula Visitor Sites*

(Cape Shirreff Field Camp Put-in/Opening)

B-086-E (Naveen)

**Cruise LMG05-14A**

25 November – 27 December 2005

*Free Drifting icebergs: influence of floating islands on pelagic ecosystems in the Weddell Sea*

B-050-L (K.Smith)

**Cruise LMG06-01**

01 January – 09 February 2006

*Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated  
Environmental (LTER)*

B-013-L/P (Fraser)

B-016-L/P (Vernet)

B-021-L (Martinson)

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

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

B-045-L/P (Ducklow)

**Cruise LMG06-02**

14 February – 16 March 2006

*Salpa thompsoni in Southern Ocean: Bioenergetics, population dynamics and biogeochemical impact*

B-307-L (Madin)

**Cruise LMG06-03**

21 March – 4 April 2006

*Processes driving spatial and temporal variability of surface pCO<sub>2</sub> in the Drake Passage*

O-214-L (Takahashi)

## **Biology & Medicine**

<b>Principal Investigator</b>	<b>I.D. No.</b>	<b>Institution</b>
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. Patricia Kremer	B-307-L	University of Connecticut
Dr. Lawrence Madin	B-307-L	WHOI
Dr. Hugh Ducklow	B-045-L	Va. Institute of Marine Science
Dr. Raymond Smith	B-032-L	University of Calif., Berkeley
Dr. Douglas Martinson	B-021-L	LDEO
Dr. Maria Vernet	B-016-L	University of Calif., San Diego
Dr. Langdon Quetin	B-028-L	University of Calif., Santa Barbara

## **Ocean & Climate**

<b>Principal Investigator</b>	<b>I.D. No.</b>	<b>Institution</b>
Dr. Steven Emerson	O-271-L	University of Washington
Dr. Taro Takahashi	O-214-N	University of Calif., Berkeley