

**Lamont-Doherty Earth Observatory**  
Marine Department-Palisades, NY 10964  
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August 21, 2009

From: G. Michael Purdy, Director

To: Captain, R/V Marcus G. Langseth

Subj: Sailing Orders - Cruise MGL0910

You are approved to sail from Astoria, OR on August 22, 2009. A clearance has been issued by the Canadian government DFA dated 21 August 2009, ref# IDR0623. The SARA application referenced in this document is attached and must be followed per this Canadian clearance.

The purpose of this cruise will be a survey of Endeavor Ridge region using the Langseth sound source along with OBS to be deployed and recovered by the R/V Langseth. The Chief Scientist for this leg is Dr. Douglas Toomey of University of Oregon.

On the afternoon of August 20, 2009 a briefing by the Office of Marine Operations (OMO) and members of the science party, technician group. Marine mammal observers and ship's crew took place to address the NMFS IHA and ITS. There was also discussion of the LOA requirements set forth by the Canadian DFO for operation in Canadian waters. We plan further discussions before operations begin to insure that there is clear understanding of the requirements laid out in the SARA application. Should any additional questions arise contact OMO.

Your next port of call is Astoria, Oregon with an arrival scheduled on September 20, 2009. The Office of Marine Operations is to be advised of any changes to this arrival date.

Sincerely,

G. Michael Purdy  
Director  
Lamont Doherty Earth Observatory