

# Gas Hydrate Instability in the Southeastern Bering Sea

Project DE-FC26-05NT42665

## *Quarterly Progress Report*

**Date:** 1 May 2006  
**Period:** January-March 2006  
**NETL Manager:** Kelly Rose  
**Principal Investigator:** Lloyd Keigwin

### **Trips, Presentations of Project Work**

Kick-Off Meeting in Morgantown, West Virginia (24 January 2006)

Lloyd Keigwin and Mea Cook traveled to Morgantown for the kick-off meeting, where they presented the goals of the project and preliminary results from 51JPC.

Invited Talk, Dalhousie University, Halifax, Nova Scotia (4 April 2006)

Mea Cook traveled to Dalhousie University, where she presented a talk on her work in the Bering Sea, including the preliminary results from 51JPC.

### **Progress**

Task 4.0: Core Sampling

As the first step in her postdoctoral work, Mea Cook collected 79 additional samples from the type section, 51JPC, in order to extend the high-resolution record. These samples cover a time period which encompasses several more interstadial events, and will define the pattern of isotopic excursions due to the presence of authigenic carbonates in the type section.

Task 5.0: Sample Preparation

The 79 samples from 51JPC were dried, weighed, washed in 63 $\mu$ m sieves, then dried again. Mea Cook has begun sieving the samples at 150 $\mu$ m and picking *Neogloboquadrina pachyderma* (s.) and *Uvigerina peregrina*, the planktonic and benthic species that will be analyzed in Tasks 6.0 and 7.0.

### **Schedule**

Mea Cook successfully defended her Ph.D. thesis, "The paleoceanography of the Bering Sea during the last glacial cycle" during this quarter. She began her postdoctoral work in March, 2006, and will be working full-time on Tasks 4.0-7.0 until August, 2006.