

## PROJECT SITUATION REPORT

### DISC Drill 2011-12 Season

**Project:** T-350-M

**Project Principal Investigator:** Dr. Charles Bentley

**Report No. 4 for period:** 12-4-11 **through:** 12-10-11

**Prepared by:** Kristina Dahnert **Date:** 12-11-11

#### IDDO Personnel Onsite:

- Kristina Dahnert
- Josh Goetz
- Mike Jayred
- Elizabeth Morton (logging)
- Paul Sendelbach
- Chuck Zander (arrived CHC on 12/10/11)

#### ACTIVITIES DURING PERIOD

- Sunday, 12/4/11, was a day off for everyone in camp except the logging winch operators (Clow, Morton, Urban)
- Crane rail shimming complete
- Ed Waddington gave a science talk after dinner on Monday, 12/5/11; this kicked off what will hopefully be a weekly Monday night science lecture series
- Mounted tower control cabinet on back of winch cabinet
- Camp staff and IDDO staff closely monitored generator temperatures this week, as the generators tend to overheat on high wind days
- Charged winch brake pump accumulator and set brake pump
- Placed and connected winch manual control station
- Powered up winch cabinet and control computers; trouble shooted communication issue with Yaskawas and watchdog timeout
- Re-leveled screen cleaning table and adjusted tilt arm for clearance with vibrator assembly
- Paul Sendelbach arrived at WAIS Divide on Wednesday, 12/7/11, at 22:00
- Chuck Zander departed CONUS on Thursday, 12/8/11, and arrived in Christchurch on Saturday, 12/10/11
- Science Construction crew (carpenters) returned to McMurdo on Thursday, 12/8/11
- Josh assisted Ed Waddington and Dan Kluskiewicz with disassembly of their 'snake' sonic logging tool; the tool encountered pressure difficulties and filled with borehole fluid around 2000 meters; repairs are being made
- Unspooled 3400m cable from winch drum and packaged reel for storage
- PIG (Pine Island Glacier) traverse arrived from Byrd Camp on Friday, 12/9/11, and departed for PIG on Saturday, 12/10/11, after some heavy equipment maintenance
- Temperature, optical, sonic and seismic logging in progress
- Installed Pengo cable tensioner and new spool of cable on levelwind

- Saturday night was made-to-order Stromboli night. As if that weren't enough, the cooks then came through the Galley serving homemade raspberry sorbet and homemade tiramisu!

## **SAFETY**

- Chief Scientist Don Voigt, Camp Manager Dean Einerson and I keep monitoring changing safety concerns both within and around the Arch and camp. Winds have decreased over the last week and the camp and cargo lines have been groomed. Arch end doors are kept clear, despite continuous drifting, and flag lines for hazards are being maintained.
- As planned, the metal ventilation ducting was removed from the slot during the previous week due to bulging of the slot walls and compromised suction. We made a request to RPSC to reinstall flexible hose ducting instead of reworking the oversized metal ducting. This request was denied and plans have been made to have a tin knocker return to WAIS Divide sometime prior to borehole deepening to rework and reinstall the original ducting.

## **COMMENTS**

### **(Problems, Concerns, Recommendations, Etc.)**

- The 953 Cat is still on light duty, but has managed to make the limited picks necessary to allow for spooling operations, flight ops, etc. The Pisten Bully is down hard. Lines are to be replaced in it every 3 years or 3000 hours. While the McMurdo Heavy Shop had ordered all replacement lines, necessary O-rings were not ordered. The parts are coming from Reno, NV, but this has resulted in important lost time with a very important piece of camp grooming equipment. Poor weather earlier this week and downed equipment has made it increasingly difficult to maintain clear access to the core processing side of the Arch, but operators are doing whatever possible. A well-groomed driveway and cargo entry through the core processing side is not needed at this time, but a foot egress path is being maintained.