

# SITREP 6, December 25, 2011, Day 33 at WSD

Donald Voigt, Chief Scientist, WAIS Divide

Written at WAIS Divide

## I. Passenger movements

### A. SCO

1. Jeff Severinghaus, Jacob Schwander, Giff Wong, John Fegyveresi and Logan Mitchel arrived from McMurdo on D018, December 23 at about 1400.

### B. IDDO

1. N/A

## II. Cargo Movements

### A. Cargo arriving from CONUS

1. N/A

### B. Cargo arriving from McMurdo

1. Ice core boxes
2. Cargo for Severinghaus and the I-477 pax

## III. Camp Activities

A. Current camp population, 38, 6 T-350, 4 I-477, 1 I-122, 3 I-161, 3 I-162, 1 I-168, 2 I-476, 14 RPSC, 4 NANA; All is well

B. Camp continues to be kept in outstanding condition. The winds are back though...

C. The Pisten Bully is still being repaired. The D-4 is still BD.

D. Work on the third Arch access door (the Moose door) has moved forward two steps and back one. We have been able to see the door twice but storms have come along to force a retreat. I anticipate that the door will be opened by tomorrow.

E. The basin on the Processing-side of the Arch has drifted back in despite the best efforts of camp.

F. The processing-side freezer units are ops-normal.

G. There have been some further problems with the generators not related to wind or temperature. Shawn has been working with support to resolve the issues with the switch gear and believes he has been successful.

H. O-283 finished work on maintenance of the AWS.

I. Sridhar presented a talk at our Monday Night Science Series.

J. We celebrated Christmas last night with a wonderful dinner.

## IV. Drill Depth and Time

- A. Work on the ducting was completed and the ventilation system was turned on.
- B. T-350 has completed work on the drill and carried out several test runs, touching bed yesterday. They touched bed at 3333.453 meters. The runs involved more extensive reaming than has been necessary in previous years.
- C. Sunday's drill run contained the pressure devices for Jeff's experiment in the screen section. Because of this the pumps could not be run and no core was obtained.

V. Status of Drilling (# of runs, meters of ice drilled, core quality)

- A. The first core is expected tomorrow.

VI. Status of Borehole Logging

- A. The Borehole loggers are standing by.
  - 1. Additional Sonic logs were obtained to 2000 meters.
  - 2. One additional Seismic experiment was carried out with the sensor at 2000 meters. (See report by Peters).

VII. Other

- A. I held a Science Meeting on 12/24 which all science attended along with Dahnert from T-350 to discuss issues concerning the drill.
  - 1. We discussed the schedule for the coming evolutions, Main Hole Deepening and Re-Logging.
  - 2. Discussed the balance of fluid in the hole while drilling and when the hole is left at the end of the season. Further data needed.
  - 3. Planned to drill 40 meters, stop, and evaluate using Schwander's "pinger". Further information may be available to allow further deepening at this time.
  - 4. Planned to make pressure measurements with transducers Severinghaus brought. This will be attempted today along with a temperature measurement to compare the drill temperature with the temperature determined by Clow. This should help us track temperature with depth.
  - 5. Briefly discussed the plan for Replicate Drilling.
- B. The processing side of the Arch was made ready to receive core. The Science Techs discussed how best to start measurements based on information from Nunn (NICL) about the CPL corrections applied to the core depth. We examined the piece of core that remained on site (Note: the whole last meter needed to be left on site in order to maintain continuity of measurements of depth).

- C. Mitchell prepared a spreadsheet for logging modified from the one used previously, as well as a form for printing off tray cards for each meter. The NICL did not send the computers this season for logging core.
- D. Safety continues to be a primary focus of all residents at WAIS Divide.
- E. K. Dahnert, E. Morton, G. Clow and D. Voigt have continued to inspect the worksites at the Arch and Logging Winch to evaluate progress and assess the work environment. Safety concerns have been addressed with the Camp Manager and corrections continue to be made.

VIII. Merry Christmas.