

# SITREP 6, December 23, 2012; Day 31 at WAIS Divide

Donald Voigt, SCO Rep., Chief Scientist at WAIS Divide

- I. Passenger movements
  - A. SCO
    - 1. Jihong Cole-Dai arrived in McMurdo and is ready to fly to WSD.
  - B. IDDO
    - 1. None
- II. Cargo Movements
  - A. No Cargo arrived from McMurdo
  - B. Retro cargo from the Arch and from the winter-over berms was identified and staged for retro.
- III. Camp Activities
  - A. Current camp population; 49 total. 10 T-350, 1 I-476, 4 I-477, 10 G-079 (PoleNet), 17 ASC, 7 T-500 (KBA).
  - B. Saturday Safety meeting; After the camp End-of-week Review,
  - C. A three day storm brought snow and high winds hampering efforts to keep access doors to the Arch open. Camp has provided the support needed though and access has been maintained to the best of our ability.
  - D. Elizabeth Morton (IDDO Safety Officer) and I continue to inspect the Arch and surroundings for Safety issues.
  - E. Camp continues to be kept organized and looking great. The recent weather has made it difficult however.
  - F. The skiway was in excellent condition. Again, conditions have change by the end of the week. The heavy equipment operators have been busy.
  - G. The generator #1 is working again in the capacity of back-up until it has been load tested and run long enough for any problems to show. Terry Jordan has worked hard to make repairs using the parts he has, in some cases the wrong parts. We appreciate the efforts Terry and his temporary assistant, Nate Bourassa.

- H. The correct parts for the generator are still on the way. This includes replacements for the breaker that failed last week.
- I. Power was lost on Thursday morning for less than 30 minutes. Generator #1 was brought on line. The shutdown of Generator #2 was due to overheating caused by wind restricting the exhaust. This is a problem we experienced last season.
- J. Generator #1 will be load tested on Sunday during the time that drilling is halted for 24 hours. There will be PM performed on Generator #2 at this time.
- K. The freezers are running normally and temperature has reached  $-25^{\circ}\text{C}$  to  $-28^{\circ}\text{C}$ . Trays are emptied every 8 hours.
- L. The processing line is in full operation; We started packing core on Thursday.
- M. We assisted Ross in the operation of his equipment used for the Severinghaus experiment sampling fugitive gasses

#### IV. Status of Drilling

- A. FIRST REPLICATE CORE RECOVERED on Monday, December 17, 2012
- B. 3087.62 meters depth in the first deviation to date.
- C. 46 runs for 86.07 meters of excellent quality ice
- D. Ten ISC boxes (5 tubes per box) have been packed and loaded on skids.
- E. On Wednesday night a run of core containing an ash layer was drilled. The only possible ash layer in the data base visible during drilling is at 3034.056 meters CPL depth. This corresponds very well with the depth of that layer in the replicate core at 3034.79 meters. Inclination of the layer was  $5^{\circ}$ . The second cloudy layer at 3074.1 meters CPL depth was recovered on Saturday. The depth of this layer in the replicate core is 3074.85 meters.
- F. Because there is little offset between the CPL depths and the drill depth logged in the Arch, we will drill to a depth of 3100 meters to reach the target goal for the first replicate.

V. Flights;

Wednesday; D018 Cargo, fuel and replacement Otter crew

Sunday; D019 off-deck at 0900 with 6 PoleNet pax and cargo.

VI. Other

A. John Fegyveresi and Brad Markle have been working on their side projects while we were waiting for core and at opportune moments. Emily Longano has been assisting.

B. Christmas will be celebrated on Sunday night with Sunday being a work day. Camp will have off Monday and Tuesday for their Holiday. We plan to drill