

## **NEEM - SITREP no. 6, Sunday 30 May 2010**

This SITREP covers the period May 24-30, 2010 (inclusive).

### **Movement of personnel:**

No movement of personnel

### **Movement of Cargo:**

**May 24**      AWB 117 - 2724 3543, 65kg IMAU from CPH to SFJ by Air Greenland.

**May 28**      AWB 631-2641 5605, 295 kg UCPH from CPH to SFJ by Air Greenland.

### **Activities:**

This week the two red dome weatherports were moved up to the surface (they were more than 1 m below surface; but in 2008 they were built on a 2m mound).

Else it has been general service of equipment and cleaning of the area from snowdrifts.

In the trenches curtains and doors were installed in front of core buffer and in the interconnecting tunnel.

### **Skiway:**

End of week the work on the skiway started in preparation for the coming week flight.

### **Drill trench:**

The week started with a two time core barrel loss in the borehole. The core barrel released it self both times at around 1000 m depth. In driller's analysis, this was due to a decrease in borehole diameter below 1000 m in combination with the introduction of new cutters with a slightly higher diameter. The core barrel was recovered and the bore hole was then reamed to nominal diameter. Later the hole was cleaned by some filter runs. Since then, no self releases of the core barrel.

Midweek the drillers was at a stable mode that produces coarse enough chips for efficient transport and packing in the chip chamber, while at the same time allow drilling without exceeding the current limitation of the drill motor. Rest of the week beautiful ice core was produced. At the same time preparations for the crew change next week in the drill teams was prepared with different system and application tests. Some work has gone into tuning both electronic sections, and they are both working.

This week production: 64,92m

Driller's depth: 1876.07m

Logging depth: 1887.07m

### **Science trench:**

A very good week for the CFA people after the final finish in the two labs. The online water isotope measurements are running, the black carbon measurement is running (viewed online from the Main dome) and the DK and F methane measurements work.

The core handlers and processors had a more troubled week. Thursday it was decided to go ahead and process the brittle ice, which has been stored since last year. A meeting was held and it was decided that processors will continue cutting the core according to the cutting scheme, except for the O-18 bag samples, which are taken from the outside of the SC-piece. The CFA pieces are stored in our square trays, and the CFA group will later select all pieces long enough for CFA and measure them. It means, that even though the CFA profile will not be continuous, it is possible to get the best coverage possible. It was also decided that all gas pieces from the brittle zone will be packed in one box, while processors will record the length of

the longest intact piece in each bag, so that the gas group, at a later stage, can select samples for appropriate analyses.

The 15 m Humboldt shallow core was processed including O-18, 5 cm cuts

CFA production this week: 118,55m

CFA depth: 1400.95m

Processing depth (ECM, DEP, Cutting): 1844.55 m (14.70m processed)

Brittle zone processing depth: 1154.45 m (BAG 2100) to 1192.40 m (BAG 2168), 37.95 m processed.

Drill trench: -18C

Connecting tunnel: -22C

Core buffer: -20C

Sciencetrench: -20C

Ice cave: -26C

**Associated programs:**

Water vapour sampling test with kite and atmospheric logger

Old and new reference GPS stations are up and running.

Experiments with acoustic depth sounder in bore hole.

**NEEM iridium numbers:**

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**Weather at NEEM:**

Temperatures between -28 and -14 C, 2 -20 knots, Snow showers, fog and haze beginning of week, nice weather end of week with sun and little wind. Friday the wind was gone and bottom inversion caused temperatures to drop from -18 C to -26 C in 45 minutes.

**NEEM camp population:** 34

**Kangerlussuaq activities:**

A relatively quiet week in Kangerlussuaq.

**Weather in Kangerlussuaq/SFJ:** Very nice weather most of the week, day temperatures up to 20 C

Lots of mosquitoes, repellent needed!

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