

## **TO NEEM STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.**

### **PROJECT NEEM (C-12-5) – SITUATION REPORT (SITREP) no.08, Sunday 1. July 2012.**

This SITREP covers the period June 25 – July 1, 2012 (inclusive).

#### **Movement of personnel:**

- June 25** Dorthe Dahl-Jensen (DK), Paul Vallelonga (I), Helle Astrid Kjær (DK), Rune Gjermundbo (DK) and Gunnar Magnus Arnthorsson (IS) from CPH to SFJ by AirGreenland.  
Alejandra Borunda (US) from Schenectady to Kangerlussuaq by 109<sup>th</sup> NYANG.
- June 26** Sepp Kipfstuhl (D) and Martin Leonhardt (D) from CPH to SFJ by AirGreenland.
- June 27** Dorthe Dahl-Jensen (DK), Paul Vallelonga (I), Helle Astrid Kjær (DK), Rune Gjermundbo (DK), Gunnar Magnus Arnthorsson (IS), Alejandra Borunda (US) and Veronika Eder (S) from SFJ to NEEM by 109<sup>th</sup> NYANG.  
Lars Berg Larsen (DK), Bruno Stocker (CH), Anders Svensson (DK), Astrid Schmidt (DK), Steffen Bo Hansen (DK), Christine Thiel (DK), Thomas Hedegaard (DK), Sverrir Hilmarsson (IS), Lou Albershardt (US), Trevor Popp (US) Nanna Karlsson (DK), Eliza Cook (UK) and Veronika Eder (S) from NEEM to SFJ by 109<sup>th</sup> NYANG.
- June 28** Lars Berg Larsen (DK), Bruno Stocker (CH), Anders Svensson (DK), Astrid Schmidt (DK), Thomas Hedegaard (DK), Sverrir Hilmarsson (IS) and Nanna Karlsson (DK) from SFJ to CPH by AirGreenland.
- June 29** Christine Thiel (DK) and Eliza Cook (UK) from SFJ to CPH by AirGreenland.  
Lou Albershardt (US) and Hans-Christian Steen-Larsen (DK) from SFJ to Schenectady by 109<sup>th</sup> NYANG.

#### **Movement of cargo:**

- June 27** 2000 kg food, oil and science equipment including winch for optical logger from SFJ to NEEM by 109<sup>th</sup> NYANG. 5900 kg fuel (Jet A1 in AC tanks) from SFJ to NEEM 109<sup>th</sup> NYANG.  
1300 kg Viessmann huts and empty ice core boxes from NEEM to SFJ by 109<sup>th</sup> NYANG. 1700 kg ice cores from NEEM to SFJ by 109<sup>th</sup> NYANG. 2200 kg generators and scientific equipment from NEEM to SFJ by 109<sup>th</sup> NYANG.

#### **Activities:**

Grooming and preparation of NEEM skiway ahead of Wednesday's 109<sup>th</sup> flight commenced as soon as stormy and snowy conditions eased early Tuesday morning. Furthermore an oil change was carried out on the main generator Tuesday. Drilling with both HT drill and rock drill Monday and Tuesday. Wednesday NEEM camp received 109<sup>th</sup> NYANG Skier 94 from SFJ with fuel, cargo, 6 new camp members and 1 DV. Skier 94 stayed on the snow for 1 hour 15 minutes and left with 12 camp members, 1 DV and 3 pallets of retro cargo including ice cores. The new camp crew immediately continued the work of documenting,

packing down and palletizing camp cargo and structures: Thursday the red dome was taken down and palletized, Friday and Saturday the sauna garage was documented and emptied while packing down and documenting goods in the Carpenters garage continued through Saturday and Sunday. Snow and ice removal around garages and on top of science trench commenced Sunday. Taking advantage of the nice weekend weather, a small team also managed to dig and sample a 2m pit 2km from camp (position: N77.42067, W51.12614, elevation 2451m). Finally the motor in one of the camp skidoos was successfully replaced Friday.

#### **Drilling:**

The HT drill was deployed in the NEEM deep hole twice. First run cleaned the hole and recovered dispersed sediment material. Second run failed to penetrate further into the sediment previously drilled with the narrow rock drill. Following the HT drill runs, a run was made with the rock drill recovering refrozen ice in the narrow hole drilled with the rock drill two days earlier. Hence it appears that the deepest part of the borehole is filling up with water that freezes in.

The following shallow coring sites were visited with AWI Basler POLAR6 operating out of SFJ:

DYE-3 (position: 65.18561°N, 43.81781°W), Wednesday/Thursday and Saturday/Sunday nights. Core drilled to 45.3 m depth as planned after successful repair of drill electronics in SFJ warehouse.

#### **Associated programs:**

The NEGIS team has been working from the camp at the NEGIS site (75 37.61 N, 35 56.49W) all week. Radar measurements completed while seismic measurements are progressing as planned. Daily contact maintained between NEEM and NEGIS camps every morning.

Water Vapour station is running.

Aerosol monitoring is running.

#### **Weather at NEEM:**

Windy (20-25kn, gusts 30-35kn), snowy and warm weather Monday. Improving conditions starting Tuesday with decreasing winds and temperatures reaching -0.5C during a calm and sunny Thursday June 28.

Towards the end of the week sunny and colder conditions prevailed with night temperatures of -18C, day temperatures of -8C and light to moderate winds (5-15kn).

#### **NEEM camp population: 8**

#### **NEEM iridium numbers:**

Primary no.: +8816 777 15686

Second no: +8816 414 39863

Tomato back-up: +8816 414 52559

#### **Kangerlussuaq:**

Handling 109<sup>th</sup> flight to NEEM Wednesday morning and Polar 6 flights to DYE-3 Wednesday evening and Saturday evening. Shallow drill electronics repair in warehouse between Polar 6 flights.

Tel.: +299 84 11 51

Mobile: +299 52 41 25

Kangerlussuaq/SFJ iridium number: +8816 214 42402

**Weather in Kangerlussuaq/SFJ:**

Nice sunny weather with temperatures exceeding +20C Monday to Saturday. Rainy weather Sunday with day temperatures from +10-15C

Mosquitoes declining.

*NEEM Field Operations office,*

*Bo Vinther*