

## NEEM - SITREP no. 10, Sunday 28 June 2009.

This SITREP covers the period June 22 - 28, 2009 (inclusive).

### Movement of personnel:

- June 22 Sune Olander Rasmussen (DK) and Brandon Hinman (US) from SFJ to NEEM by the 109<sup>th</sup> (109<sup>th</sup> media mission flight)
- Suzanne Wyss (CH), Sang-Bum Hong (KOR), Fernando Valero Delgado (D), Frank Wilhelms (D), Melanie Behrens (D), Nerys Menna Lewis (UK), Mads Dam Ellehøj (DK), Ivana Cvijanovic (Serbia), Tim Brücher (D), Mai Winstrup (DK), Tina Brand (DK), Vasileios Gnikis (Greece), Maurine Montagnat Rentier (F), Philippe Possenti (F), Olivier Alemany (F), Raimund Muscheler (D), Markus Michael Frey (D), Fabien Gillet-Chaulet (F), and Timothy Charles Burton (UK) from CPH to SFJ by Air Greenland
- June 23 Suzanne Wyss (CH), Sang-Bum Hong (KOR), Fernando Valero Delgado (D), Frank Wilhelms (D), Melanie Behrens (D), Nerys Menna Lewis (UK), Mads Dam Ellehøj (DK), Ivana Cvijanovic (Serbia), Tim Brücher (D), Mai Winstrup (DK), Tina Brand (DK), Vasileios Gnikis (Greece), Maurine Montagnat Rentier (F), Philippe Possenti (F), Olivier Alemany (F), Raimund Muscheler (D), Markus Michael Frey (D), Fabien Gillet-Chaulet (F), Timothy Charles Burton (UK), and Takayuki Kuramoto (J) from SFJ to NEEM by the 109<sup>th</sup>
- Jørgen Peder Steffensen (DK), Sverrir Hilmarsson (IS), Sarah Harvey (US), Sigfus Johnsen (IS), Louise Albertshardt (US), Bo Møllsøe Vinther (DK), Hans Christian Steen-Larsen (DK), Matthias Bigler (CH), Henry Rufli (CH), Nobuhiko Azuma (J), Peter Sperlich (D), Josef Richard Kipfstuhl (D), Sebastian Bjerregaard Simonsen (DK), Henriette Lerche (DK), Ernesto Kettner (D), Jocelyne Bourgeois (CAN), Xiao Cunde (CHN), Pascal Bohleber (D), Susanne Iversen (DK), Robert Mulvaney (UK), Siwan Manon Richardson (UK), Margareta Hansson (S), and Sune Olander Rasmussen (DK) from NEEM to SFJ by the 109<sup>th</sup>.
- June 24 Sverrir Hilmarsson (IS) and Susanne Iversen (DK) from SFJ to CPH by Air Greenland 109<sup>th</sup>.
- June 25 Lars Berg Larsen (DK), Jørgen Peder Steffensen (DK), Sigfus Johnsen (IS), Bo Møllsøe Vinther (DK), Matthias Bigler (CH), Henry Rufli (CH), Nobuhiko Azuma (J), Josef Richard Kipfstuhl (D), Henriette Lerche (DK), Ernesto Kettner (D), Pascal Bohleber (D), Robert Mulvaney (UK), Siwan Manon Richardson (UK), and Margareta Hansson (S) from NEEM to SFJ by the 109<sup>th</sup>.
- Sarah Harvey (US), Louise Albertshardt (US), and Jocelyne Bourgeois (CAN) from SFJ to SCN by the 109<sup>th</sup>.
- June 26 Hans Christian Steen-Larsen (DK), Peter Sperlich (D), Lone Holm Hansen (DK) and Xiao Cunde (CHN) from SFJ to CPH by Air Greenland.

### Movement of Cargo:

- June 22 2000 kg of fuel and 3510 kg of empty ice core boxes, food, spare parts, scientific equipment from SFJ to NEEM by the 109<sup>th</sup>  
3700 kg of trash and spare equipment to be stored in SFJ from NEEM to SFJ by the 109<sup>th</sup>.
- June 23 7540 kg of food, mogas, plywood, scientific equipment, core troughs, and gas pumping tubes from SFJ to NEEM by the 109<sup>th</sup>  
2500 kg of boxes with ice core samples and refuse from NEEM to SFJ by 109<sup>th</sup>.

The following shipments have arrived in SFJ:

- Container from UCPH by ship, including 2 boxes from IMUA and 2 from Jan Kaiser
- 1 box, 18 kg, from CEA LSCE by FedEx, AWB no. 866072952143
- 1 box, 18 kg, from AWI, AWB no. 631-26298075
- 1 box, 25 kg, from USwansa by TNT
- 2 colli, 61 kg, from UBern, AWB no. 117-23927013

Shipment sent from SFJ

- 6 colli, 190 kg, to UCPH, AWB no. 631-01836365

### **Camp activities:**

The beginning of the week was dominated by the work related to receiving the two Skiers Monday and Tuesday and preparing and unpacking cargo to and from the flights. The Monday flight was a media visit, where a US press delegation was invited by the 109<sup>th</sup> to Greenland. It was a pleasure for us to present our work to the visitors. On the Tuesday flight, 2/3 of the crew changed, so the first days after the crew change were spent on teaching the newcomers everything about drilling, cutting and analysis, and camp life. Late week has been characterized by good progress in drilling, cutting, and analysis.

### **Skiway:**

The skiway is in very good condition. Both Skiers took of using only half the skiway without ATOs in first attempt. The skiway has been certified for bad weather approaches, so landing is now possible under 300/1 conditions: cloud base 300 ft or more and visibility 1 mile or more. We thank the 109<sup>th</sup> for a highly successful and professional week of flying.

### **Construction:**

No major construction work this week,

### **Drilling:**

Drilling is going very well. Before the Tuesday flight, the drillers had to drill short cores due to lack of core troughs. After the delivery of the troughs and run-in and training of the new drillers, production has been high. The drill team started working in shifts from Friday, so now drilling takes place roughly from 8 am to midnight.

Runs in excess of 3 meters are common and the cores usually have several cracks (3-5) when pushed out but the core remains intact in the core tray. The drillers have improved the extraction of the core from the barrel by reducing thermal shock on the core troughs with strips of duct tape but in the brittle ice cracks still occur.

Driller's depth: 702.40 m, production this week is more than 150 m despite crew change and short cores in the beginning of the week.

### **Logging:**

Logging has been on hold all week due to the brittle zone. Last bag before brittle zone: 1021. Depth: 561.55 m.

### **Science Trench:**

Ice core processing is going well. This week both the Vesuvio ice and the Christmas night snow was process in the science trench.

Processed depth: 443.30 m.

The CFA lab has finished analyzing the shallow core from 2008 and is now analyzing the main core. During his last 12 hours in camp Matthias Bigler managed to make the CFA sulphate analysis function. All 10 CFA chemical analytical channels are thus fully operative.

CFA depth: 134.75 m.

C-axis analysis with French fabric analyzer has been started.

**Other science activities:**

Started BAS radar measurements.

A double pit for inspecting firn stratigraphy was 'dug' by Timothy and the snow blower.

The seismic station was inspected and leveled.

A five meter deep pit for chemical analyses was dug and sampled by our Korean participants 3 km East of camp.

**Weather at NEEM:**

Again a week with generally nice weather. Very changeable winds, with the strongest winds from southerly directions. Snow showers just after the Monday Skier left camp and also at other times. Temperatures from -20°C to -7°C

**NEEM camp population: 31****Kangerlussuaq activities:**

It has been a busy week with 2 flights to NEEM and almost 50 persons passing through either on their way up to or home from NEEM. The field office manning changed mid-week, and we are now tidying and organizing the office and warehouse after a busy week. At the same time, we are starting the work to get food and equipment ordered for new flight period. We have re-arranged the HF radio antenna on the roof.

**Weather in Kangerlussuaq:**

Nice weather all week, sometimes windy and dusty. Temperatures between 5°C and 18°C. Many mosquitoes.

NEEM Field operations office,  
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