

## NEEM - SITREP no. 15, Sunday 2 August 2009.

This SITREP covers the period July 27 – August 2, 2009 (inclusive).

### Movement of personnel:

- 27 July: J.P.Steffensen (DK) from CPH to Kangerlussuaq by Air Greenland.
- 27 July: James Zheng (CAN), Todd Sowers (US), Julia Rosen (US), Steve Holloway (US-DV), Daniel Cohen (US-DV), Frederic Patterson, jr. (US-DV) and Heidi Marie Cullen (US-DV) from Schenectady to Kangerlussuaq by 109<sup>th</sup>.
- 28 July: Thomas Goosens (B), Nils O.Andersen (DK-DV), John Renner Hansen (DK-DV), Helle Houkjær (DK-DV) and Lone Skafte Jespersen (DK-DV) from CPH to Kangerlussuaq by Air Greenland.
- 29 July: Jun Uetake (J), Kumoko Goto-Azuma (J), Sepp Kipfstuhl (D), Robert Schneider (CH), Wang Shimeng (CHN), Li Chuanjin (CHN), Christo Buizert (DK), Christoffer Stowasser (DK), Emilie Capron (F), Adalsteinn Svavarsson (IS), Steffen Bo Hansen (DK), Lars berg Larsen (DK), Urs Federer (CH), Kaori Saito (J-DV), Wolfgang Karg (D-DV), Mario Garcia (US-DV), Anne Thompson (US-DV), Jeff Kleinman (US-DV), Torsten Jansen (DK-DV), Marc de Kaiser (B-DV), Ines Trams (D-DV), Frank Hennecke (D-DV) and Peder Stenson (S-DV) from CPH to Kangerlussuaq by Air Greenland.
- 30 July: James Zheng (CAN), Todd Sowers (US), Julia Rosen (US), Thomas Goosens (B), Jun Uetake (J), Kumoko Goto-Azuma (J), Sepp Kipfstuhl (D), Robert Schneider (CH), Wang Shimeng (CHN), Li Chuanjin (CHN), Christo Buizert (DK), Christoffer Stowasser (DK), Emilie Capron (F), Adalsteinn Svavarsson (IS), Steffen Bo Hansen (DK), Lars berg Larsen (DK), Urs Federer (CH), Steve Holloway (US-DV), Daniel Cohen (US-DV), Frederic Patterson, jr. (US-DV), Heidi Marie Cullen (US-DV), Nils O.Andersen (DK-DV), John Renner Hansen (DK-DV), Helle Houkjær (DK-DV), Lone Skafte Jespersen (DK-DV), Kaori Saito (J-DV), Wolfgang Karg (D-DV), Mario Garcia (US-DV), Anne Thompson (US-DV), Jeff Kleinman (US-DV), Torsten Jansen (DK-DV), Marc de Kaiser (B-DV), Ines Trams (D-DV), Frank Hennecke (D-DV), Peder Stenson (S-DV), Gorm Steffensen (DK) and Nanna Steffensen (DK) from Kangerlussuaq to NEEM by 109<sup>th</sup>.
- 30 July: Simon Schuepbach (CH), JiWoong Chung (COR), Jørn Ladegaard (DK), Philippe Possenti (F), Olivier Alemany (F), Katrin Wolff (D), David Etheridge (AUS), Mauro Rubino (I), Daphne Buiron (F), Aslak Grindsted (DK), Vas Petrenko (US), Atsushi Miyamoto (J), Julien Courteaud (F), Katy Pol (F), Lars Gutski (DK), Sebastian Bjerregaard (DK), Anais Orsi (US), Zoe Courville (US), Kaitlin Keegan (US), Steve Holloway (US-DV), Daniel Cohen (US-DV), Frederic Patterson, jr. (US-DV), Heidi Marie Cullen (US-DV), Nils O.Andersen (DK-DV), John Renner Hansen (DK-DV), Helle Houkjær (DK-DV), Lone Skafte Jespersen (DK-DV), Kaori Saito (J-DV), Wolfgang Karg (D-DV), Mario Garcia (US-DV), Anne Thompson (US-DV), Jeff Kleinman (US-DV), Torsten Jansen (DK-DV), Marc de Kaiser (B-DV), Ines Trams (D-DV), Frank Hennecke (D-DV), Peder Stenson (S-DV), Gorm Steffensen (DK) and Nanna Steffensen (DK) from NEEM to Kangerlussuaq by 109<sup>th</sup>.
- 31 July: Anais Orsi (US), Zoe Courville (US), Kaitlin Keegan (US), Steve Holloway (US-DV), Daniel Cohen (US-DV), Frederic Patterson, jr. (US-DV) and Heidi Marie Cullen (US-DV) from Kangerlussuaq to Schenectady by 109<sup>th</sup>.
- 31 July: Katy Pol (F), Christine Hvidberg (DK) and Bo Hvidberg (DK) from Kangerlussuaq to CPH by Air Greenland.
- 1 August: Simon Schuepbach (CH), JiWoong Chung (COR), Katrin Wolff (D), David Etheridge (AUS), Mauro Rubino (I), Atsushi Miyamoto (J), Lars Gutski (DK), Nils O.Andersen (DK-DV), John Renner Hansen (DK-DV), Helle Houkjær (DK-DV), Lone Skafte Jespersen (DK-DV), Kaori Saito (J-DV), Wolfgang Karg (D-DV), Mario Garcia (US-DV), Anne Thompson (US-DV), Jeff Kleinman (US-DV), Torsten Jansen (DK-DV), Ines Trams (D-DV), Frank Hennecke (D-DV) and Peder Stenson (S-DV) from Kangerlussuaq to CPH by Air Greenland.
- 2 August: Philippe Possenti (F), Olivier Alemany (F), Julien Courteaud (F) and Marc de Kaiser (B-DV) from Kangerlussuaq to CPH by Air Greenland.

**Movement of Cargo:**

The following shipments have arrived in SFJ:

- 1 collo of 249 kg with shelving parts
- 7 colli of 144 kg spare parts.
- 27 July: 1000 kg (2200 lbs) food from Schenectady to Kangerlussuaq by 109<sup>th</sup>.
- 28 July: 2994 kg in 69 boxes, ice core samples from Kangerlussuaq to CPH by Air Greenland.
- 30 July: 7590 kg (16690 lbs) timber, plywood, drilling fluid, food and spare parts from Kangerlussuaq to NEEM by 109<sup>th</sup>. 11100 kg (13500 liter) JP-8 from Thule AB to NEEM by 109<sup>th</sup>. 2840 kg (6245 lbs) empty pallets and ice core samples from NEEM to Kangerlussuaq by 109<sup>th</sup>.

**Camp activities:**

One of the large turning points of the week was the flight on Thursday with press and DVs and the last crew exchange of the season with 19 NEEM personnel leaving and 17 arriving. The flight included a round trip from NEEM to Thule and back to NEEM with fuel. This allowed for a 5 ½ hour stay of press and DVs. Although the weather was marginal, the flights occurred on schedule, and the plane was able to take off in 1<sup>st</sup> attempt without using ATOs even with a payload of 16,000 lbs. We thank the 109<sup>th</sup> for a very successful mission.

This week the drilling passed several points worthy of celebration: Monday the depth of NGRIP 1 (1372 m) was passed, Tuesday the depth of Camp Century (1389m) was passed and Wednesday drilling reached into the ice from the last glacial. The climate transition from Younger Dryas to the Holocene, 11,712 years ago, was detected by ECM and was found at a depth of 1418.80 m. Processing of the ice core immediate switched mode, and a special climate transition sampling program was started. After the crew exchange on Thursday, new people are being trained in drilling and processing. With the arrival of spare parts, the broken snow mobile has been repaired and the final carpenter work in the main dome has begun.

**Skiway:**

In preparation for the flight, skiway taxiway and apron were groomed. The flight crew found the skiway in a very good condition.

**Drilling:**

Drilling during the week has been stable with several small mechanical issues that needed attention. Thursday, Friday and Saturday production has been low due to DV-visit, crew change and week-end. With the arrival of Steffen Bo Hansen, the drillers will now try to fine tune the drill with the aim to bring the inclination of 2.6 degrees down. Core quality has been good all week. Driller's depth: 1470.48 m, production this week is 116.11 m.

**Logging:**

Logging has now caught up with drilling. Freshly drilled cores are now logged 2 days immediately after drilling. Logging depth: 1483.94 m.

**Science Trench:**

The new crew is now beginning to do processing on a routine basis. The transition has attracted quite some attention, and the line scanning image of the core showing the appearance of cloudy bands in late glacial ice has been studied in detail. A special sampling program for gas samples started at the transition (Bag 2580=T1). Sunday, processing was reaching down into the GI-1a (Allerød) period. CFA is running in 24 hour schedule.

Processing depth: 1449.80 m.

CFA depth: 592.9 m.

**Other science activities:**

Monday thru Wednesday, after successful completion of the programs, the firn village was taken down and all equipment moved to NEEM camp. Final depth of the NEEM 2009 S1 core became 136 m as core quality became too bad to continue. Bad core quality was expected, as the coring occurred in a dry hole. Final depth of the NEEM 2009 S2 core where the firn-air program was done was 91m.

**Weather at NEEM:**

Mostly cloudy with some snow fall and noon temperatures up to -7 deg C. Night temperatures at -12 deg C. Winds between 9 and 18 knots from W, later from S and SSE.

**NEEM camp population:** 34

**Kangerlussuaq activities:**

Main activities in Kangerlussuaq office has been to collect and prepare cargo for this week's flight, to handle a massive influx of people (both NEEM personnel and press and DVs) and to arrange briefings and trips to the ice margin for press and DVs. The press crews were from Storm Center (Weather Channel – US), NBC news (US), ZDF and ARD (Germany), Kyodo (J) and a Swedish journalist. This week the FOM office has changed personnel as Christine and Bo Hvidberg left and J.P.Steffensen took over.

**Weather in Kangerlussuaq:**

Sunny with blue sky most days. Temperatures have been 6-20 °C. Sunday clouds came in and temperatures dropped to 6 deg C. Mosquitoes almost absent.

NEEM Field operations office,  
Jørgen Peder Steffensen