

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-17-5 EGRIP– SITUATION REPort (SITREP) no.9, Sunday 02. July 2017

This SITREP covers the period June 26– July 02, 2017 (inclusive).

Movement of personnel:

26. June

Marie Kirk, Henrik Park Preisler (DK), Jason Roberts (AUS), Dorthe Dahl-Jensen (DK), from SFJ to CPH by Air Greenland. Lisa Lolk Hauge (DK), from SFJ to NUUK.

27. June

Sarah Catherine Harvey (US), Sarah Miche P. Berben (B) Thomas Blunier (CHE), Jason Eric Box (US), Emilie Francoise Nathalie Capron (FR/DK), Alun Hubbard (UK), Jesper Baldtzer Liisberg (DK), Fumio Nakazawa (JP), Anaïs Orsi (FR), Talalay Pavel (RU/CHN), Trevor Popp (US) , Nicolas Rathmann (DK), Jason Leigh Roberts (AUS), Jakob Schwander (CHE), Anders Mortensen Svensson (DK), Paul Travis Vallelonga (DK), Remo Walther (CHE). From SFJ to CPH by Air Greenland.

28. June

Johannes Freitag (DE), Qi Zhang from SFJ to Copenhagen with Air Greenland. Valerie Anne Morris (US) from SJF to KSCH by NYANG 109th.

29. June

Megan Frayne (US) from SFJ to Ilulissat with Air Greenland.

30. June

Anna Domnik (DE) from SFJ to Copenhagen with Air Greenland.

Movement of cargo:

No cargo was moved this week.

Camp activities:

Following the two skier missions on the 22nd and 25th Chris grooming the skiway to remove rollers, in case we were granted a training mission by the 109th (we were not). Towards the end of the week the camp needed securing amid a period of increased wind on the 30th, that reduced visibility to 200m and caused drifting snow. Nora and Basile worked consistently to clean 200 core troughs that very were roughly cut in Kangerlussuaq. These troughs will be used for the brittle ice and need to be smooth for the fragile ice. In the science trench the seal between the core buffer and the drill trench was completed to keep core-buffer temperature below -20C. A long overdue defrost of the cooling unit in the logging cabin took place (13 hours) between Saturday and Sunday and cooling performance improved markedly.

Science activities:

Even with the addition of a new workforce in camp, work continued in the science trench at a fast pace, with teams conducting physical properties and water isotope measurements. Our mechanical engineer Karl Emil is also a specialist in 3D-printers, so he quickly managed to set up a new 3D printer that will be used

for creating replacement drill components. Mid-week the water isotope CFA team melted firn cores, which the melting system handled well, despite the porous ice. Additionally, a short core of 14.2 was drilled with a hand-auger core 350 m WSW of drill trench, and Basil and Nora dug a 4 metre pit 150 m WSW of the drill trench and sampled it for water isotopes in high resolution. Water vapour sampling, methane sampling, boundary layer and meteorology measurements continued steadily throughout the week.

Drilling activities:

With the recent flights arrived new drilling members who were paired with experienced drillers in two shifts. This mode of operation was also applied to the core logging team to ensure a smooth handover. On the 27th a milestone was reached as drillers passed the 500 m mark. During the week, the drill engineers conducted numerous tests to finely tune their equipment and make improvements. A new electronics section for the ice core drill will give a better overview of how the drill performs at depth. The section was installed worked well for a number of runs over two days before the need for bore hole logging took over. The logging showed that the bore hole inclination is still rising. With the new electronics section in place, the hope is to bring this rise to a halt. Bag number 1000 was reached at the end of the week, and ice showed increasing signs of brittleness.

June 26. Logging depth: 495.23 m.

July 02 Logging depth: 565.79 m.

EGRIP Camp Population: 22

EGRIP iridium numbers:

NOTE: Primary number different from the number given in the field plan.

Primary no.: +8816 777 72510

Iridium Openport

Secondary no.: +8816 234 9137

Field leader, handheld satellite phone

3 m satellite dish installed, and camp has access to LAN and the web.

Weather at EGRIP:

Weather observed in camp this week varied from being overcast with snow showers to sunshine with blue skies. The wind direction changed continually, although wind strength was light (around 8 m/s) for most of the week, increasing to 12 m/s on Friday 30th. Temperatures were between -7C and -23C.

Kangerlussuaq activities:

Efforts were made to get for training mission to EGRIP with fuel, following a downgrade of our skiway on the 22nd; however good weather over EGRIP ruled us out. Allocation with bad weather was preferred for the training. Passengers (including DVs) were received from EGRIP, managed in KISS during the week and transported to SFJ for onward travel. A dinner at the Row Club was organised for the 25th. Cargo for shipping on the 18th July to AWI (Johannes), Switzerland (Jakob) and France (Anais) was arranged in the warehouse. Field gear was cleaned and ordered in preparation for the next flight period. The food list and guest numbers for KISS reservations were forwarded to Chris Sørensen.

EastGRIP field operations office

Kangerlussuaq, Greenland

Office: KISS, room 208

Postal address: Box 12, DK-3910

Phone: +299 84 11 51
Mobile: +299 5241 25
E-mail: fom@egrip.camp

Weather in Kangerlussuaq/SFJ:

The weather in Kangerlussuaq has been warm, with some clouds and rain during the night. Temperatures between +1 at night and +18C during the day. The mosquitos are persistent.

*EGRIP Field Operations office,
Marie Kirk
Eliza Cook*