

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-17-5 EGRIP– SITUATION REPort (SITREP) no.15, Sunday 30. July 2017

This SITREP covers the period July 24– July 30, 2017 (inclusive).

Movement of personnel:

- 28. July** Johannes Lohmann (DK/D), Sverrir Hilmarsson(DK/IS), Emma Kahle(US), Søren P.Olesen(DK-DV), Annette Fuchs(DK-DV) from CPH to SFJ by Air Greenland.
- 29. July** Johannes Lohmann (DK/D), Sverrir Hilmarsson(DK/IS), Emma Kahle(US), Søren P.Olesen(DK-DV), Annette Fuchs(DK-DV), Jon Gertner (US-press) and 7 persons (109th press group) from SFJ to EGRIP by 109th .
- 29. July** Elizabeth Bagshaw(UK), Ina Kleitz(D), Søren B. Nielsen(DK), Diana Vladimirova(DK/RUS), Marius Simonsen(DK), Christine Hvidberg(DK), Karl Emil Nielsen(DK), Daniela Jansen (D), Martin Tischner (D-press), Tobias Krell (D-press), Peter Wuchterl-Ammer (D-press), Johannes Obermaier (D-press), Yumi Nakayama (J-press), Søren P.Olesen(DK-DV), Annette Fuchs(DK-DV), Jon Gertner (US-press) and 7 persons (109th press group) from EGRIP to SFJ by 109th .

Movement of cargo:

- 25. July** 11,725 liter fuel (fuel tanker) from SFJ to EGRIP by 109th.
- 25. July** 1,300 kg ice household waste from EGRIP to SFJ by 109th.
- 27. July** 550 kg ice core troughs and spareparts from CPH to SFJ by Air Greenland.
- 29. July** 1755 kg window, food re-supply, gasoline, drilling fluid (1 drum), paper rolls, core troughs and 9207 liter fuel from SFJ to EGRIP by 109th.
- 29. July** 2275 kg empty drums, intermediate drill and luggage from EGRIP to SFJ by 109th.

Camp activities:

There has been two flights this week: One was planned, and completed the last crew exchange this year, and one was an extra mission with fuel in preparation of German radar flights early next year. The flights required grooming of skiway, movement of fuel tanks and handling in- and outgoing cargo. There has been some work on the water system in the main dome, the curtains in the trenches were improved and the freezer in the core extraction room has been defrosted. The visiting TV crew "Checker Tobi" were filming and the Asahi Shimbun journalist has been making interviews.

Science activities:

Now well into the brittle zone, logging without cutting and storing in core storage continues. It appears that the new extraction system, the -30 C active freezer and a focused drilling crew combined with great care from the logging crew is producing brittle ice cores of much higher quality than ever before. Work in physical properties laboratory continues, and work in the isotope laboratory has been completed. The cryoegg experiment in the main bore hole was successful. Parts of the GPS strainnet have been measured and the area was mapped by drone. The main bore hole was logged to confirm reduced inclination. Water vapour sampling, methane sampling, boundary layer and meteorology measurements continued steadily throughout the week.

Drilling activities:

Two new teams are now drilling after the crew exchange. During the week drilling was stopped to allow for borehole logging and the cryoegg experiment. The the borehole was filtered and drilling resumed. A test of second electronic section of drill was made, and some faults were identified. The primary electronic section and surface control has been stable throughout the week. By applying a new technique of directional drilling in the last weeks, the borehole inclination has been reduced from 5.7 degrees (at 570m) to 2.4 degrees (at 745m). The shallow drilling system for the S3 core was setup at (75.61646N, 35.96299W).

July 30. Logging depth: 704.64 m.

July 23. Logging depth: 760.99 m.

EGRIP Camp Population: 21

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, the web and IP phones.

EGRIP IP based phone numbers (preferred): +45 77347444 ext 401 (Field leader office)

+45 77347444 ext 4012(first floor in Dome)

Weather at EGRIP:

Weather in camp this week was mostly sunny with overcast in the middle of the week. Wind were mostly from SW and W at 2-9 m/s. Summer temperatures reached EGRIP early in the week with day temperatures close to melting point. At the end of the week, temperatures were between -6C and -16C.

Kangerlussuaq activities:

There has been some activity in relation to the two flights this week, including picking up last cargo from Air Greenland and packing cargo. The last crew exchange has been through KISS, and DV visitors and journalist received. KISS will house the outgoing crew in a couple of days.

EastGRIP field operations office

Kangerlussuaq, Greenland

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Weather in Kangerlussuaq/SFJ:

The weather in Kangerlussuaq has been sunny and warm, with few days of blowing dust due to katabatics from the ice sheet. Temperatures between +6 at night and +22C during the day. Mosquitos numbers are now going down, but they are still present.

EGRIP Field Operations office,

J.P.Steffensen

Marie Kirk