

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-18-5 EGRIP – SITuation REPort (SITREP) no.12, Sunday 15 July 2018

This SITREP covers the period July 09 – July 15, 2018 (inclusive).

Movement of personnel:

- 10. July:** Jørgen Peder Steffensen (DK), from CPH to Kangerlussuaq (SFJ) by Air Greenland.
- 14. July:** Anna Filipova (press-Bulgaria), from CPH to Kangerlussuaq (SFJ) by Air Greenland.
- 15. July:** 28 JSEP PAX (DK/US/GL) and Anna Filipova (Bulgaria) from Kangerlussuaq (SFJ) to EGRIP by skier 109th.

Movement of cargo:

- 12. July:** (AWB- 631-2745-3366) /6 cll / 376kg / Science + logistical purchases from CIC.
- 15. July:** 1 pallet food and few spare parts/2400kg + 1 pallet JSEP camp equipment 1000 kg + 6600 liter fuel from SFJ to EGRIP by 109th.
- 15. July:** 2 x 21 empty drums/1400 kg and 36 boxes of ice core samples/1950 kg from EGRIP to SFJ by 109th.

EGRIP camp activities:

Preparing for next flight period, grooming, repairing last skiway markers, building pallets. Preparing for the reception of 28 JSEP students and teachers by laying out an area for a small tent city and making a detailed schedule for eating times and JSEP activities. Adjusting and tuning the Doppler radar. Moved one out house to newly dug pit.

Drilling:

Fine chips and keeping the drill fluid clean is an issue. Much filtering is needed. Break down in drill electronics. Drilling continues with NEEM electronics. Logging from 1371.86 m to 1432.82 m.

Detailed Drillers report:

Both working EGRIP electronic sections failed. One due to component failure in the power circuit, probably because of high strain, and another due to a leak caused by a missing ventilation screw, allowing drill fluid to enter the electronic section.

The drilling was under a brief halt, while the electronic section was changed to the NEEM electronics. Drilling continued hereafter, with the same stable configuration as established from previous weeks of experimenting. Running step cutters with a relative low pitch between 1,5 - 2,2mm. Thus far the NEEM electronics prove to be more robust, but lacking a bit power compared to the EGRIP electronics, where cutting pitches of above 2mm have been tested successful. Drilling will continue with the NEEM electronics, until a redundancy in the EGRIP equipment have been established, and will be exchanged if extra power is desired.

Chips loss still seem to plague the operation, which is why we still filter the borehole during night, this is done by 2 people whom make up a separate filter team. Drilling progress 8/7 to 16/7: 71m

Science:

Processing from 1337.05m to 1373.35m and brittle zone from 1062.05m to 1134.10m.

Isotope laboratory from 864.05 m to 904.75m and from 1140.70m to 1183.05m.

Physical properties lab from 1328.80m to 1361.25m and brittle zone ice to 1097.80m (Friday)

Water vapor sampling and measurements.

Japanese snow crystal and surface monitoring

RADIX: First ice drilled on Tuesday. Thursday 20 m ice drilled. Friday 40 m drilled.

EGRIP Camp Population: 33 until Sunday 15th, then 62.

EGRIP iridium numbers:

Primary no.: +8816 7776 2837

Iridium Open port, field leader

Secondary no.: +8816 7776 2838

Common phone, main dome

Third no.: +8816 7776 2839

Handheld satellite phone

EGRIP direct phone: +45 7734 7444 ext. 401

Link to webcam and weather station: <http://alice.egrip.camp/>

Weather at EGRIP:

Most days have been sunny with few clouds. Temperatures were between -5 C and -21 C and the wind was between 10 and 12 knots most days; but Saturday the wind picked up to 18 knots, gusting up to 28 knots.

Wind direction was between NW and SW all week.

Kangerlussuaq activities:

Finished organizing and cleaning in the containers and the warehouse. Telephone meeting with the 109th for planning of flight period. Preparing and planning the flight period incl. making PAX manifests, HAZMAT papers and cargo manifests. Pick up laundry. Pick up food. Made two presentations for the JSEP team. Trip to the port with truck to pick up petrol in drums.

Weather in Kangerlussuaq/SFJ:

Sunny days with a little overcast a few times. Many mosquitoes around. Temperatures between 3 and 23 degrees.

The EGRIP FOM office:

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Kangerlussuaq FOM

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