

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-19-6 EGRIP – SITUATION REPORT (SITREP) no. 13, Sunday July 21, 2019

This SITREP covers the period July 15 – 21, 2019 (inclusive).

Movement of personnel:

- 16.07.2019 Chris Jacobs (UK), Bo Vinther(DK), Kevin Christensen(DK), Hamid Motjabavi(D), Sebastian Hellmann(D), Estelle Ngoumitsa (DK/UK), Liz Bagshaw(UK), Naoko Nagatsuka(J) and Tomotaka Saruya(J) from SFJ to CPH by Air Greenland.
- 18.07.2019 Nicholas Rathmann(DK) from SFJ on trek from Kangerlussuaq to Sisimiut.
- 18.07.2019 Zhang Nan(CHN), Li Bing(CHN), Eliza Cook(DK/UK) and Tobias Erhardt(CH/D) from SFJ to CPH by Air Greenland.
- 19.07.2019 Kenji Kawamura(J) from SFJ to CPH by Air Greenland.

Movement of cargo:

- 19.07.2019 AWB 631-27581691 from SFJ to CPH by DHL (Air Greenland) onwards to Tokyo, 9 colli NIPR field equipment.

EXCOM decision:

Due to expected challenges in drilling through the hard ice and the thermal and fast deforming basal ice in 2020, it has been decided to process the 2020 EGRIP ice at the AWI cold rooms in Europe.

EGRIP camp activities:

A new period has started with only three team members from the previous crew. As deep drilling has stopped for this year, main activities in camp has turned more towards support of the surface programs. One pistenbully is dedicated to support the Alabama radar team, while there has been repair of tracks on the other Pistenbully. Drums have been lifted free from the cargo line and the mechanics garage cleaned. Part of the cleaning was due to melting of the snow floors in both garages after temperatures Friday reached the melting point. The double sided pit used during JSEP last week was closed. The cable on the elevator was repaired, and the elevator shaft closed for the season.

Drilling:

Deep drilling has stopped for 2019 at 2122.42 m. Last weekend, the cryo egg was lost in the borehole as the net containing it was ripped. The drillers produced a special tool to capture the egg at the bottom of the hole. The tool was tested on a mock egg, produced with the 3-D printer in camp. Friday, the cryo egg was recovered and the borehole is open again. Drilling of an upstream shallow core has begun, 50 km upstream from camp. The core is named S4 and the position is 75.2706 N, 37.0073W. At present the depth is 24.96 m.

Science:

While processing of ice cores in the science trench has ended, the measurements in the Isotopes CFA laboratory and the Physical Properties laboratory have continued. In the CFA cabin a total of 191 bags

where measured (3471-3661), while the PP measurements reached bag 3837 and switched to volume samples.

On the surface, atmospheric and surface snow measurements continued as planned.

Testing of the first of four radars (the modified Mills Cross Radar) from University of Alabama continued through the week, and profiles were done on the skiway, along Icebridge and Polar 5 tracks and on the line between camp and the RADIX site. Work continues on the Danish rover project and on the portable snow analyzer (LISA box).

AWI RAMAC ground penetrating radar made ready for a profile to upstream drilling site. The precise temperature probe to measure temperature in the 134 m deep S3 borehole was tested and is ready to be used when there is a calm and overcast day.

EGRIP Camp Population: 23

Weather at EGRIP:

Mostly sunny with overcast Thursday to Sunday. Winds 2 to 6 m/s, except Wednesday, Friday and Sunday where winds reached 10 m/s. On Friday temperatures reached 0 C and rainbows were observed in camp. Otherwise temperatures between -3 to -17 C.

Kangerlussuaq activities:

After the flights last week, most passenger traffic has been departing EGRIP personnel from Kangerlussuaq to Europe. Last passenger left Kangerlussuaq Friday. A broken car ignition lock has been replaced and all vehicles are running.

Weather in Kangerlussuaq/SFJ:

Dry and mostly sunny. Two days cloudy with slight rain. Temperatures between 22C and 8 C. Very few mosquitos. It is a blueberry boom year.

The EGRIP camp:

EastGRIP camp

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Iridium +8816 777 62837

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The EGRIP FOM office:

EastGRIP field operations office

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