

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-23-7 EGRIP – SITUATION REPORT (SITREP) no. 14, Sunday 23 July 2023

This SITREP covers the period July 17 – July 23, 2023 (inclusive).

Movement of personnel:

- 17 July** Aira Kamic(DK) from Kangerlussuaq to Sisimiut by trail.
- 18 July** Knut Christianson(U.S.), Andrew Hoffman(U.S.) and John Paden(U.S.) from Schenectady to Kangerlussuaq by C-17.
- 19 July** Louise Andersen(DK), Sune Halkjær(DK), Josephine Kande(DK), Jeppe Kromann Laursen(DK) and Sara Hald(GRL-DV) from Copenhagen to Kangerlussuaq by Air Greenland.
- 20 July** Ole Ellekrog(GRL-DV) from Nuuk to Kangerlussuaq by Air Greenland
- 22 July** Louise Andersen(DK), Sune Halkjær(DK), Josephine Kande(DK), Jeppe Kromann Laursen(DK), Ole Ellekrog(GRL-DV) and Sara Hald(GRL-DV) from Kangerlussuaq to EGRIP by 109th.
- 22 July** Margaret Harlan(DK/AUS), Steffen Bo Hansen(DK), Nan Zhang(CHN), Trevor Popp(US/DK), Chiara Barla (IT), Martin Leonhardt (DE), Derryn Harvie(AUS), Charlotte Runge(DK), Ole Ellekrog(GRL-DV) and Sara Hald(GRL-DV) from EGRIP to Kangerlussuaq by 109th.
- 23 July** Margaret Harlan(DK/AUS), Steffen Bo Hansen(DK), Trevor Popp(US/DK), Chiara Barla (IT), Martin Leonhardt (DE), Derryn Harvie(AUS) and Charlotte Runge(DK) from Kangerlussuaq to Copenhagen by Air Greenland
- 23 July** Ole Ellekrog(GRL-DV) and Sara Hald(GRL-DV) from Kangerlussuaq to Nuuk by Air Greenland.

Movement of cargo:

- 17 July** Fresh food 161 kg, spareparts 41 kg from Copenhagen to Kangerlussuaq by Air Greenland.
- 22 July** Fresh food, spareparts, pallet and extra cargo nets 750kg. Shoring for Flexmobil 500 kg 9,700 liter fuel from Kangerlussuaq to EGRIP by 109th. Total: 22,700 lbs.
- 22 July** Ice cores 2140 kg, pressure chambers, Flexmobil no 1.(black shovel) 5775kg total 19400 lbs. from EGRIP to Kangerlussuaq by 109th.

EGRIP camp activities:

Continued to document and repack equipment in carpenter's garage. Maintained snow mobiles for radar work next week. Grooming skiway. Taking down and packing electrical wiring in science trench. Packed electrical wiring and connection boxes. Enjoyed first batch of homegrown salad. Boxes with retro cargo placed on sleds. Preparation for Friday's flight. Friday plane was cancelled due to risk of icing enroute. On Saturday the mission was successful. Ice and Flexmobil no.1 returned to Kangerlussuaq. The Flexmobil has been 34 years on the ice cap!

Drilling:

In the drill trench, the drillers had issues with shorts developing in the slip ring connection in top of drill. Measurements has shown that glycol/water solution is conductive, while the drilling fluid is not. Packed the ice coring part of drill equipment. With the rock drill mounted, it took 8 hours of drilling to drill 70 cm rock core. Shorts in the slip ring assembly still developed. On Wednesday, the problem with shorts was partly solved. A third rock core was drilled. Inside the core, laminated layers of basal material were observed. All cores were handled in red light. On Thursday, the bayonet coupling between the motor section and the

rock drill core barrel opened and the bottom half of the drill was left at the bottom. Later, the bayonet section was retrieved; but now the rock drill detached in threaded connection. On Friday, after camera inspection of bottom of the hole, the drillers lowered the threaded drill pipe again and managed to reconnect to lost rock drill. The drillers drilled 5-10 cm more and tried to pull up; but the drill was stuck. After some anxious moments, the drillers managed to pull up the drill and it came up with the drill tube filled with re-frozen water soaked mud. Most likely, the drill got stuck in quicksand below the ice. With this core, EGRIP deep drilling was declared as terminated.

Science:

Calibrated old logger in new stand. Pebbles found in core trough. The U.S. NSF radar project around EGRIP (Knut Christianson), that was supposed to take place from July 21 to August 11 was cancelled in the last minute as the crew discovered faults in the radar while preparing the equipment in Kangerlussuaq.

EGRIP Camp Population: 8

Weather at EGRIP:

Mostly groundfog in the morning, overcast during the day. Winds calm to 9 kt from S, SW ,W and NW. Temperatures between -17 C and -1 C. No precipitation.

Kangerlussuaq activities:

Maintaining EGRIP website. Receiving visitors from Arctic Science Hub in Nuuk. Picking up cargo and food for camp. Receiving last inbound crew for EGRIP. Handling flight on Saturday. Sorting out cargo in warehouse. Receiving last shipment of ice from EGRIP. Now in freezer.

Weather in Kangerlussuaq/SFJ:

Very wet weather continues with still low temperatures for the season. Mosquito count high. The river has swelled, mainly due to rainfall.

EGRIP camp communication:

Field Leader Dorthe Dahl-Jensen

E-mail	fl@egrip.camp
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EGRIP web cam	http://alice.egrip.camp/

EGRIP field operations office:

Field Operations Manager (FOM) Jørgen Peder Steffensen

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