

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-22-5 EGRIP – SITuation REPort (SITREP) no.12, Sunday 10 July 2022

This SITREP covers the period July 04 – July 10, 2022 (inclusive).

Movement of personnel:

05.07.2022 Thomas Blunier (DK/CH) from Kangerlussuaq to Copenhagen by Air Greenland.
05.07.2022 Marie Kirk (DK) from Copenhagen to Kangerlussuaq by Air Greenland.
10.07.2022 Jørgen Peder Steffensen from Copenhagen to Kangerlussuaq by Air Greenland.

Movement of cargo:

04.07.2022 (DKAAR0013194) AAL to SFJ, 7670 kg PB 300 Polar body.
04.07.2022 (DKAAR0013734) AAL to SFJ, 3.818 kg PB blade+steel tracks, 766 kg scientific equipment (AWI 3 EUR pallets, AWI DAS 3 EUR pallets + 1 tent).
05.07.2022 (AWB 631-2804 6104) CPH to SFJ, 327 kg scientific equipment (3 colli AWI DAS).
06.07.2022 (AWB 631-2804 6653) CPH to SFJ, 28 kg hook for PB (1 collo).

EGRIP camp activities:

On Monday the effort to remove ice blocks from the drill trench was completed, and work to setup drill infrastructure could speed up. Snow block removal began in earnest in science trench and core buffer and by Tuesday evening, block removal in science trench was completed. The floor was made level and tables reset. Work then proceeded to setting up ice core processing equipment in science trench.

Drilling:

As all snow work in the drill trench is now completed, the drillers began to setup the drill equipment, which began with necessary adjustments and maintenance on the winch before mounting a new drill cable. By Thursday, a new cable was wound onto the winch using a cable tensioner. Friday, the anti-torque was fixed to the cable termination, and during the weekend the borehole logger was mounted and the borehole logged. The drillers are approaching the point where the drill can be mounted and ice core drilling can begin.

Science:

The AWI shallow drilling at the second shear zone site was completed with 102 m final depth. The equipment at the site has been packed down. AWI has now completed two ice stream margin ice core drillings.

The EGRIP radar made several profiles this week: A 25 km radar profile in NE direction and extended to the old RADIX site and a profile SE of camp. The Mills cross radar was assembled and hooked up to a Pistenbully. On Saturday, the radar made profiles of large folds in the lower half of the ice sheet outside the ice stream SE of camp.

During the week, the drone team continued with high numbers of drone flights (weather permitting) until Friday, when the drone made a very hard landing and was damaged beyond possible repair in camp. The drone team have stopped their activities after 105 successful flights. They have collected water vapour in the atmospheric boundary layer, and the dataset collected is going to be very interesting.

AWI has performed ApRES radar measurements at ice stream margin drilling sites 1 and 2.

EGRIP Camp Population: 28

Weather at EGRIP:

The weather has been variable during the week. Mostly overcast with snow with a few sunny days in between. Temperature between -19°C and -4°C. And winds at 4kt to 19 kt from SW on fine days and from NW on overcast days.

Kangerlussuaq activities:

This week, there have been no flights to and from EGRIP, and the FOM office had a staff exchange. Iben and Thomas left and have been replaced by Marie and J.P. A couple of shipments have been received.

Weather in Kangerlussuaq/SFJ:

Temperatures between +8°C and +22°C. On cold days: Few mosquitoes. On warm days: Lots.

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Kangerlussuaq FOMs

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