

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

EGRIP (Expedition Permit C-24-05) – SITUATION REPORT (SITREP) no. 09, Sunday 23 June 2024

This SITREP covers the period 17 – 23 June 2024 (inclusive).

Movement of personnel:

17 June: Knut A. Christianson (US), Andrew Hoffman (US), Lee Alan Taylor (US), from Kangerlussuaq to EGRIP by 109th New York Air National Guard.

17 June: Nanna B. Karlsson (DK-GEUS), Anne Munck Solgaard (DK-GEUS), Christopher Shields (DK/UK-GEUS), Christopher Derksen (CA-ECCC), Oli (IS, Norlandair TO crew), and Arni (IS, Norlandair TO crew) from EGRIP to Zackenberg by Twin Otter (TF-NLC).

Movement of cargo:

17 June: 1 AF-pallet of EGRIP radar equipment and loose load (PolyPod sledge) of EGRIP cargo (2740 lbs) and 1 AF-pallet of Christianson science gear and loose load of Knut cargo (3889 lbs) from Kangerlussuaq to EGRIP by 109th US Air National Guard.

17 June: 2 AF-pallets of EGRIP retro science and drill equipment (7900 lbs) including 50 kg GEUS equipment + 2 AF-pallets of GreenDrill retro cargo (6100 lbs) from EGRIP to Kangerlussuaq by 109th US Air National Guard.

Fuel to Camp:

17 June 5,030 liter on fuel delivered on Skier 11.

EGRIP camp activities:

From June 16 to June 17, the GEUS Twin-Otter with 6x crew and scientists stayed overnight at EGRIP for maintenance of the AWS. On Monday June 17, camp received Skier 11 with fuel, 3 PAX, radar equipment for Knut and the DK/Kansas radar. In the trenches, the deep drill winch was moved next to the entrance ramp and the last Viessman cabin - the drill trench workshop – was disassembled. A hole was made from surface to the drill trench and the casing was extended from the bottom of the inclined trench through the drill trench and further up through the hole to surface. The casing was supported with snow backfilled with the snow blower. Inventory of garages and electronics in camp has been initiated.

Drilling:

The intermediate drill setup in the white tent is now operational with 50.74 m core drilled this week as measured from the floor of the tent. The core that is named S10 is somewhat contaminated and disturbed in the upper section as it is drilled where the EGRIP camp has been active since 2015. Updates have been made to the drill control software and integration on the new drill control unit is in progress, but overall, the new drill setup is performing very well.

Science:

The S10 core density profile is being obtained in 55 cm resolution, water isotope samples are being scraped from the core surface in 55 cm resolution, and an ECM profile is being made with a hand-held ECM that we are testing for the first time at EGRIP. Whereas several volcanic spikes have been identified in the ECM profile, the reproducibility of the hand-held ECM appears not as good as that of the conventional ECM

setup. During the week a temperature profile of the 2022 S8 shallow bore hole has been obtained. Knut's radar team made several surveys close to the NEGIS shear margin driving up to 35 km SW of camp and a shorter survey to the shear zone NE of camp. The obtained radar profiles live up to expectations.

EGRIP Camp Population: 14

Weather at EGRIP:

Overall good outdoor conditions with low winds, but several days with low contrast and snowfall.

EGRIP team contact info:

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Kangerlussuaq activities:

Dismantling AF-pallets, sorting retro cargo, cleaning of workshop.

Weather in Kangerlussuaq/SFJ:

Dry, cool weather with some clouds most of the week. Ice on Lake Ferguson has completely disappeared this week.

Mosquito situation: Still quite low.

The EGRIP FOM office is open:

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Prepared by the Kangerlussuaq field ops. manager Thomas Blunier and field leader Anders Svensson