

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-23-7 EGRIP – SITUATION REPORT (SITREP) no. 05, Sunday 21 May 2023

This SITREP covers the period May 15 – 21, 2023 (inclusive).

Movement of personnel:

- 15 May:** Sridhar Anandakrishnan (US, GreenDrill) from Kangerlussuaq to Ilulissat by Air Greenland.
- 17 May:** Josephine Kande (DK), Sveinn Sveinsson (IS, GreenDrill), Brandon Langan (CA, GreenDrill), Josephine Lindsey-Clark (DK), Ashish Paiguinkar (IN), Bhikaji Laximan Redkar (IN), Palle Koch (DK), Michael Prior-Jones (UK), Elizabeth Bagshaw (UK) and Anders Svensson (DK) from Kangerlussuaq to EGRIP by 109th US Air National Guard.
- 17 May:** Josephine Kande (DK) from EGRIP to Kangerlussuaq by 109th US Air National Guard.
- 19 May:** Sridhar Anandakrishnan (US, GreenDrill), Brian Burchartz (CA, EAI-TO crew), Cullen Burchartz (CA, EAI-TO crew) and Andre Martineau (CA, EAI-TO crew) from Ilulissat to EGRIP by Enterprise Airlines Inc. Twin Otter (C-FTFX).
- 20 May:** Timothy Cedric (UK), Barbara Seth (CH/DE), Søren Børsting (DK), Yannick Elias Heiser (DK/DE), Kenji Kawamura (J), Emil Dissing Eriksen (DK), and Hans Kristian Sangill Brødløs (DK) from Copenhagen to Kangerlussuaq by Air Greenland.

(Greendrill PAX movements between EGRIP and the Greendrill field site not listed here).

Movement of cargo:

- 17 May** 2 pallets + loose load containing cargo for the Greendrill project (5700 lbs total), one EGRIP pallet with resupply / scientific equipment (3454 lbs), and 2400 L of fuel from Kangerlussuaq to EGRIP by 109th US Air National Guard.
- 17 May** 2 pallets with various camp equipment, spare parts, balloons, science cargo etc. (8100 lbs) from EGRIP to Kangerlussuaq by 109th US Air National Guard.
- 18 May** 13 kg of food (frozen) from Copenhagen to Kangerlussuaq by Air Greenland (AWB 631-28189136).
- 18 May** 60 kg CO₂ bottles (x4) from Kangerlussuaq to Ilulissat by Air Greenland (AWB 631-28151266).
- 19 May** 552 kg of food (keep cool) from Copenhagen to Kangerlussuaq by Air Greenland (AWB 631-28189070).
- 19 May** 60 kg CO₂ bottles (x4) from Ilulissat to EGRIP by Twin Otter (Greendrill).

(Greendrill cargo movements between EGRIP and the Greendrill field site not listed here).

EGRIP camp activities:

This week we received two flights in camp: Wednesday Skier 32 arrived bringing 7 news PAX for camp as well as 2 PAX for the Greendrill project. The Skier also brought fuel for camp and cargo for camp and Greendrill. Friday the C-FTFX (Twin Otter) brought 3 flight crew and 1 PAX for the Greendrill project, as well as some cargo for camp. Friday the Twin Otter was refueled in camp and managed to make a recon flight to the Greendrill NE ASIG site before returning to camp. In preparation for the flights the skiway was groomed, broken flags replaced and a powerline was readied for the Twin Otter.

The third (new) Pistenbully is still not operational, but part numbers have been identified, and spare parts ordered to be delivered on next week's flight. In preparation for this upcoming flight retro-cargo has been identified and two pallets readied. In the cupola all IT and electric cables have been neatly reorganized and

various equipment has been wall-mounted. Stationary radios have also been mounted and tested, and all equipment performed satisfactory for flight handling.

Drilling:

Drilling has been ongoing all week and a total of 13 cores all 3 m or more were drilled Monday to Friday. On Saturday, the first run of the day unfortunately came up without recovering the full-size core drilled, only the chips. Sunday evening the full core was recovered intact. During the latter part of the week evening and night hours were used for deployment of the Cryo-egg in the borehole.

Science:

Logging and processing is ongoing, and bags 4424 to 4519 were logged this week. DEP is carried out on 1.65 m sections before they are cut and packed, bags 4424 to 4519 were processed. The fabric analyzer and the large area scanning microscope were set up and measurements started during the latter part of the week. After some attempts, the Cryo-egg experiment successfully recorded signals from the egg down to a depth of 2200 m, using a surface antenna setup some 200 m away from the bore hole. A temperature profile was measured in the shallow bore hole drilled last year near camp.

EGRIP Camp Population: 25; 19 EGRIPpers, 3 Greendrill, 3 Twin Otter crew.

Weather at EGRIP:

In general the weather at EGRIP has been sunny with some clouds dominating only during the weekend, albeit often thin clouds. Temperatures between -38°C and -14°C, with the warmest temperatures coinciding with the weekend cloud cover. Winds up to 14 kt Thursday and Friday, but generally between 5 kt and 10 kt between SW and NW. Saturday and Sunday first completely calm then wind turned S and then finally all the way between N and NE.

Kangerlussuaq activities:

Our flight on Monday May 16th was delayed to Tuesday May 17th due to a combination of technical difficulties. After the successful and very smooth mission to EGRIP Tuesday, we spent time reorganizing cargo received from EGRIP and preparing for next week's flight. After two days with just the two FOMs present, we received the next group of seven team members from Copenhagen on Saturday.

Weather in Kangerlussuaq/SFJ:

Weather continues to be mainly cold, cloudy, and windy with temperatures oscillating around the freezing point. Thursday (Ascension Day) was the exception, and we took advantage of the sunshine and pleasant temperatures and drove to the ice cap, spotting reindeer, musk oxen, various birds, and ... wait for it ... the season's first mosquito! Saturday evening, we got more than 5 cm of snow, which had melted by the next morning.

Mosquito situation: One. No longer with us.

EGRIP camp communication:

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