

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-22-5 EGRIP – SITuation REPort (SITREP) no.08, Sunday 12 June 2022

This SITREP covers the period June 06 – June 12, 2022 (inclusive).

Movement of personnel:

- 07.06.2022 Julien Westhoff (DK/DE), Thomas Matthias Hedegaard (DK), Jens Christian Hillerup (DK), Aslak Grinsted (DK), Chloe Bashear (US) and Helene Pehrsson (DK) from SFJ to EGRIP by 109th.
- 07.06.2022 Charlotte Runge (DK), Hans Christian Steen-Larsen (NO/DK) and Chiara Paleari (SE/I) and Helene Pehrsson (DK) from EGRIP to SFJ by 109th.
- 08.06.2022 Hans Christian Steen-Larsen (NO/DK) and Charlotte Runge (DK) from Kangerlussuaq to Copenhagen by Air Greenland.
- 08.06.2022 James Veale (UK) from Summit to Kangerlussuaq with 109th.
- 09.06.2022 Romain Duphil (FR) from Copenhagen to Kangerlussuaq by Air Greenland.
- 09.06.2022 Chiara Paleari (SE/I) from Kangerlussuaq to Copenhagen by Air Greenland.
- 09.06.2022 Kerim Nisancioglu (NO) from Nuuk to Kangerlussuaq by Air Greenland.
- 10.06.2022 Jens-Jacob Herjulf Simonsen (DK/GL), Iben Koldtoft (DK), Niels Fabrin Nymand (DK), Jeppe Laursen Kromann (DK), Henrik Park Preisler (DK), Grant Vernon Boeckmann (DK/US), Nicholas Mossor Rathmann (DK), Dorthe Dahl-Jensen (CA/DK) Michael Döring (DK/DE), David Lilien (CA/US), Tamara Annina Gerber (DK/CH), Claus Birger Sørensen (DK), Laura Dietrich (NO/DE), Johannes Freitag (DE) Daniel Steinhage (DE), Ole Zeising (DE) from Copenhagen to Kangerlussuaq by Air Greenland.
- 10.06.2022 Kerim Nisancioglu (NO) from Kangerlussuaq to Copenhagen with Air Greenland.

Movement of cargo:

- 07.06.2022 From SJF to EGRIP by 109th, 12,945.8 lbs. of PAX, luggage, science + drill equipment and food. 820 L of fuel in drums delivered to camp.
- 07.06.2022 From EGRIP to SFJ by 109th, estimated 8,250 lbs. of PAX, luggage, drill liquid and empty ice core boxes.
- 09.06.2022 (AWB 631-27974951) CPH to SFJ by Air Greenland, 1313 kg fresh vegetables and fruit.
- 09.06.2022 From CPH to SFJ by BlueWater, 85.5 kg of logistical and scientific equipment (2 colli).
- 10.06.2022 From CPH to SFJ by BlueWater, 720.5 kg of drill and scientific equipment (10 colli).
- 10.06.2022 From Aarhus to SFJ by BlueWater, 355 kg of rover equipment (5 colli).

EGRIP camp activities:

The week started with removal of snow and drifts, including from the caves and from the skiway in preparation for the LC-130 flight Tuesday. Drums were collected and palletized as retro cargo for Kangerlussuaq and the science activities resumes. On Tuesday there was a successful crew exchange, with 5 participants arriving, and three departing. We received spare parts and three pallets of cargo including drill and radar equipment and food. We also sent out two pallets of cargo. Crucial IT infrastructure work was started by new arrivals J.C. and Aslak, who reconfigured EGRIPs computer network, which is hooked up to our satellite dish, and re-established continuous internet connection, off which the web-cam, ceilometer for cloud measurements work. The re-established internet also meant that we could improve management and safety, with a better phone connection and opportunity to use the internet to look up manuals for spare parts and problem-solving. We reconfigured the electrical grid in the dome and trenches and During

the week the mechanic's garage was freed from ice and then emptied and lifted to its new location on Friday. During the week, the drone made regular flights and Polar 5 made numerous successful radar missions and we can already see that the data looks good. Mid-week we set to casting the casting 3m entrance to storage cave and marked out a new inclined ramp to drill trench which we started to excavate by the end of the week. This task is hard going due to cutting into the old inclined trench which is rock hard. Four times, the outer cutting wheel broke and had to be welded. However, the snowblower broke through to the bottom of the tunnel on Saturday afternoon and work started on the drill trench restoration and measurements were taken to calculate trench deformation. On Saturday night the team gathered for dinner prepared by Valerie, Kevin R., Haley and Chloe, and there was a memorial speech for Henry Ruffli, who was a Swiss ice core drill constructor and a dear colleague of many. On Sunday, the team prepared retro cargo and prepared to say good bye to 8 colleagues and welcome 17 new.

Drilling:

No drilling is scheduled before late June.

Science:

Following the weekend's snow storm, science work could resume on Monday. Michael, Chantal and H.C., who take samples from the large snowpits dug out the trench and continued with final sampling, while Valerie, Kevin R. and Haley continued on with the drone project. One successful mission sampled water vapour in 4 layers of atmosphere. Daniela and John worked on radar data. The four Polar 5 crew Alan, Vicky, Luke and Clemens are working well and one of the radar pictures shows beautiful folded structures deep in the ice.

EGRIP Camp Population: 24

Weather at EGRIP:

The week started with overcast weather with 2 km visibility and light snow, with temperatures ranging between -20°C to -14°C, and winds of 10-12 kt coming from the NNW. Conditions improved on Tuesday and remained fine and visibility was unrestricted for the remainder of the weeks, with winds of 6-10 kt coming predominantly from the SW and stable temperatures around -20°C to -13°C all week. Temperatures dipped slightly on Sunday to -22°C to -12°C.

Kangerlussuaq activities:

On Monday the scheduled EGRIP flight was postponed one day due to low snow drifts in camp. On Monday we emptied the fridge of cheeses and cold meats and packed them on the pallets, ready for Tuesday. We closed the pallets, netted them and had them inspected with the 109th. JC spent some days preparing IT equipment with Aslak, ready for installation in EGRIP. The team of JC, Aslak, Julien, Chloe and Thomas departed on Tuesday morning. Helene went on a round trip to EGRIP. We had problems with both the VW taro and the Toyota Landcruiser, that we fixed quickly with Søren. On Thursday we received more food (1.3 tonnes) and this was collected Friday from Cargo, with the help of 17 new arrivals, who helped back the food into ice core boxes. Sensitive food was placed into the fridge and packed on Sunday, when we had a bag and pallet inspection by the 109th. Database manifests were prepared and the 17 participants kept themselves busy with day trips and camping over the weekend.

Weather in Kangerlussuaq/SFJ:

Weather was sunny and warm at the beginning of the week with temperatures reaching 18°C, and with the fine, still weather came hordes of mosquitos. During the early hours of Thursday came a cold snap, with

temperatures down to -2°C at night and light snowfall throughout Thursday and into Friday. Fresh snow was visible on the nearby mountains. Cold, overcast temperatures remained until Sunday, with daytime temperatures down to 5°C.

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