

## TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

### Expedition Permit C-23-7 EGRIP – SITUATION REPort (SITREP) no. 09, Sunday 18 June 2023

This SITREP covers the period June 12 – June 18, 2023 (inclusive).

#### Movement of personnel:

- 12 June** Nan Zhang (CN) from Copenhagen to Kangerlussuaq by Air Greenland.
- 13 June** Jørgen Peder Steffensen (DK), László Palcsu (HU), Mihály Veres (HU), Marjan Temovski (HU/MK), Elemér László (HU), and Nándor Palcsu (HU) from Copenhagen to Kangerlussuaq by Air Greenland.
- 16 June** Dorthe Dahl-Jensen (DK), Margaret Harlan (AUS/DK/US), Aira Kamic (DK), Steffen Bo Hansen (DK), Bent Neumann Jensen (DK), Trevor Popp (US/FR), Jakob Schwander (CH), Remo Walther (CH), Alison Criscitello (CA), Jinhwa Shin (KR), Lars Ostenfeld (DK), Peter Kofoed (DK), and Kenneth Sorento (DK) from Kangerlussuaq to Copenhagen by Air Greenland.
- 18 June** Dorthe Dahl-Jensen (DK), Margaret Harlan (AUS/DK/US), Aira Kamic (DK), Steffen Bo Hansen (DK), Bent Neumann Jensen (DK), Trevor Popp (US/FR), Jakob Schwander (CH), Remo Walther (CH), Alison Criscitello (CA), Jinhwa Shin (KR), László Palcsu (HU), Mihály Veres (HU), Marjan Temovski (HU/MK), Elemér László (HU), Nándor Palcsu (HU), Nan Zhang (CN), Lars Ostenfeld (DK), Peter Kofoed (DK), Kenneth Sorento (DK), and Jørgen Peder Steffensen (DK) from Kangerlussuaq to EGRIP by 109th US Air National Guard.
- 18 June** Grant Boeckmann (DK/US), Palle Koch (DK), Ashish Paiginkar (IN), Prashant Redkar (IN), Yannick Elias Heiser (DK/DE), Josephine Yolanda Lindsey-Clark (DK/SE), Barbara Seth (CH/DE), Hans Kristian Sangill Brødløs (DK), and Jørgen Peder Steffensen (DK) from EGRIP to Kangerlussuaq by 109th US Air National Guard.
- Fuel:** Camp received 2840 L of fuel (5970 L fuel received on arrival, re-fueled the plane with 3130 L).

#### Movement of cargo:

- 10 June** 162 kg food cargo dry and cool from Copenhagen to Kangerlussuaq by Air Greenland (AWB 631-28190256, via Chris)
- 16 June** Containers with ship cargo arrived (not cleared yet)
- 18 June** 1 AF pallet with 1 drum hydraulic oil, Hungarian team science material, Korean science material, various spare parts, dry and cool food field equipment (2,447 lbs),  
1 AF pallet with two additional pallet + personal field bags (1,786 lbs) from Kangerlussuaq to EGRIP by 109th US Air National Guard.
- 18 June** 1 AF pallets with two Greendrill snowmobiles (1,600 lbs),  
1 AF pallet with 16x empty drums + 15x empty ice core boxes + Cryo-egg box + Gas loss box personal luggage (2,200 lbs) from EGRIP to Kangerlussuaq by 109th US Air National Guard.

#### EGRIP camp activities:

Towards the end of the week, the entire skiway and apron were groomed in preparation for the upcoming flight period. Unfortunately, on Saturday where the flight was planned, there was strong weather system with high winds from the NE, snowdrift and snowfall. The storm created large amounts of snowdrift in camp and partly destroyed the skiway grooming. Sunday the Skier made it to camp with 19 camp members, food and cargo. Eight camp members left camp together with some Greendrill and camp equipment.

Unfortunately, the Skier could not take off with all the retro load, so two out of four pallets were left behind.

**Drilling:**

The drilling was struggling in the beginning of the week with short cores and difficulties engaging cutters. The situation improved as a screw was recovered from the borehole Tuesday. Also on Tuesday, the drill got stuck with a hard core break and 2 kg of frozen glycol was added to the borehole to free the drill. The drill came free with some damage to the core, but the core section was continuous and could be logged. Later during the week, it was again possible to drill 3+ m long cores. Saturday to Sunday the borehole was logged with a bottom temperature -3.1°C.

**Science:**

Logging during the week of depth from 2610.13 m to 2639.99 m and processing (DEP + cutting/packing) depth from 2609.20 m to 2638.35 m. So far, it has been possible to match up the EGRIP DEP and NGRIP ECM records reasonably well. The match suggests that the EGRIP stratigraphy is preserved back to some 120,000 years. The cores drilled during the week could, however, not be matched up to existing Greenland ice cores in a reasonable manner. The DEP measurement shows an abrupt shift between what appears to be an Eemian level to what looks similar to a glacial level. The DEP shift is accompanied by a change in ice crystal sizes. Abrupt changes are hard to reconcile with an Eemian climate that is known to have been stable like the Holocene.

**EGRIP Camp Population:** 25

**Weather at EGRIP:**

Most days, the weather was sunny and warm with temperatures above -20°C the entire week. Saturday, however, there was a storm with winds of more than 20 kt from the NE and gusts up to 28 kt, that delayed the planned Skier mission from Saturday to Sunday.

**Kangerlussuaq activities:**

Many inquiries from arriving DVs. Organizing DV visits. Preparing cargo for flight period 3. Two pallets have been prepared to camp. Making manifest for cargo to and from camp (Greendrill cargo). Wednesday meeting with 109<sup>th</sup> discussing missions in flight period 3. Equip field participants and DVs with field gear. Both forklifts were running low on tire pressures. Pumped all tires with the help of Søren autoshop.

**Weather in Kangerlussuaq/SFJ:**

Weather has been cool to cold with snow on the hills on Friday morning. Due the cold weather essentially mosquito free.

**EGRIP camp communication:**

Field Leader Anders Svensson

E-mail	<a href="mailto:fl@egrip.camp">fl@egrip.camp</a>
IP phone	+45 7734 7445
Handheld Iridium phone	+8816 414 00590
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**EGRIP field operations office:**

Field Operations Manager (FOM) Thomas Blunier/ Jørgen Peder Steffensen

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