

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

### Expedition Permit C-23-7 EGRIP – SITUATION REPORT (SITREP) no. 06, Sunday 28 May 2023

This SITREP covers the period May 22 – 28, 2023 (inclusive).

#### Movement of personnel:

- 22 May:** Timothy Cedric Gee (UK), Barbara Seth (CH/DE), Søren Børsting (DK), Yannick Elias Heiser (DK/DE), Kenji Kawamura (J), Emil Dissing Eriksen (DK), Hans Kristian Sangill Brødløs (DK), Josephine Gondán Kande (DK), Karsten Aagaard (GL) and Amanda Willet (US, GreenDrill) from Kangerlussuaq to EGRIP by 109<sup>th</sup> US Air National Guard.
- 22 May:** Josephine Gondán Kande (DK), Karsten Aagaard (GL), Michael Robert Prior-Jones (UK), Elizabeth Alice Bagshaw (UK), Anna-Maria Buschsieweke (DK/DE), Bo Møllesøe Vinther (DK), Sverrir Ævar Hilmarsson (IS), Jeppe Kromann Laursen (DK), Josef Richard Kipfstuhl (DK/DE), Romain Duphil (F), Bruno Stocker (CH), Nicholas Mossor Rathmann (DK), Emma Charlotte Fisher Fox (UK) and Iben Koldtoft (DK) from EGRIP to Kangerlussuaq by 109<sup>th</sup> US Air National Guard.
- 23 May:** Sridhar Anandkrishnan (US, GreenDrill), Amanda Willet (US, GreenDrill), Sveinn Sveinsson (US, GreenDrill), Brandon Langan (US, GreenDrill) from EGRIP to GreenDrill NE ASIG Site by Enterprise Airlines Inc. Twin Otter (C-FTFX).
- 23 May:** Josephine Gondán Kande (DK), Anna-Maria Buschsieweke (DK/DE), Bo Møllesøe Vinther (DK) and Romain Duphil (F) from Kangerlussuaq to Copenhagen by Air Greenland.
- 24 May:** Brian Burchartz (CA, EAI-TO crew), Cullen Burchartz (CA, EAI-TO crew) and Andre Martineau (CA, EAI-TO crew) from EGRIP to Akureyri by Enterprise Airlines Inc. Twin Otter (C-FTFX).
- 25 May:** Michael Robert Prior-Jones (UK) and Elizabeth Alice Bagshaw (UK) to Point660 for SLIDE project (not EastGRIP related).
- 25 May:** Sverrir Ævar Hilmarsson (IS), Jeppe Kromann Laursen (DK), Josef Richard Kipfstuhl (DK/DE), Bruno Stocker (CH), Nicholas Mossor Rathmann (DK) and Emma Charlotte Fisher Fox (UK) from Kangerlussuaq to Copenhagen by Air Greenland.
- 26 May:** Sune Olander Rasmussen from Kangerlussuaq to Copenhagen by Air Greenland.  
(GreenDrill PAX movements between EGRIP and the GreenDrill field site not listed here if same location by start of the day as by end of the day).

#### Movement of cargo:

- 22 May** 2 pallets + loose load containing one AF pallet with food, field equipment + personal field bags (2600 lbs total), one AF pallet with one additional pallet (737 lbs), frozen food as loose load and 5000 L of fuel from Kangerlussuaq to EGRIP by 109<sup>th</sup> US Air National Guard.
- 22 May** 2 pallets with various camp equipment plus spare parts for Flexmobiles (4100 lbs) and one pallet with 28 empty 200 L drums (1380 lbs) from EGRIP to Kangerlussuaq by 109<sup>th</sup> US Air National Guard.

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

#### EGRIP camp activities:

This week we received one flight in camp: Monday Skier 11 arrived bringing 7 news PAX for camp as well as the last member for the GreenDrill project. The Skier also brought fuel and food for camp. Monday and

Tuesday, the C-FTFX (Twin Otter) brought the rest of the cargo and the science crew to the GreenDrill NE ASIG site. Afterwards the Twin Otter went to Iceland where it will stay until the GreenDrill crew will be pulled out of NE ASIG site and return back to EGRIP camp. Tim spent a few days removing drift snow and ski tracks from the skiway after the mission Monday.

#### **Drilling:**

Drilling operations continued after crew change Monday. New drill teams were formed and are now drilling in shift making four runs per day with the same drill equipment as last year (that has meanwhile been in Antarctica). A total of 34 m was drilled Monday to Friday. Most cores are 3+ m long. Tuesday the borehole was logged with the borehole logger for monitoring of the borehole inclination, temperature profile and signs of shearing. The temperature at the bottom was -8.9 C. On Saturday, the teams were doing filter runs for collection chips in the borehole. Sunday, the drill tower was re-aligned and in the evening the logger was sent down to stay overnight in the bottom of the borehole.

#### **Science:**

Logging and processing are ongoing together with physical properties analysis with the fabric analyzer and the large area scanning microscope. Logging depth from 2485.56 m to 2519.54 m and processing (DEP + cutting/packing) depth from 2485.45 m to 2516.80 m.

During the week, work on the acoustic borehole liquid level Pinger was done. The instruments will be mounted on the borehole lid and hopefully indicate any fast changes in the borehole liquid.

By end of the week, an ApRES instruments was picked up from the northern shear margin. The instruments will be used for measurements in camp when we get closer to the bedrock.

**EGRIP Camp Population:** 14

#### **Weather at EGRIP:**

In general, the weather at EGRIP has been sunny with some clouds dominating, except Monday where it was overcast all day. Temperatures between -32°C and -18°C. Winds up to 20 kt in the night to Tuesday, but generally between 5 kt and 14 kt between SW and N.

#### **Kangerlussuaq activities:**

After the mission to EGRIP camp Monday, we spent time reorganizing cargo received from EGRIP and doing laundry. All equipment in the containers in front of the warehouse were secured before the containers were moved to one line at the side of the warehouse. Containers were unsecured again and cleaning on the ground at their old locations. Half of the outgoing EGRIPpers went home Tuesday, where the Airbus also got a damage on its wing when parking it for the night. The rest of the week rented planes have been flying between Copenhagen and Kangerlussuaq. Smaller planes with no space for all PAX and more old and noise planes. A coffee meeting with 'Arktisk Kommando Luftgruppe' took place Friday. The FOM crew changed during the week with handling over important information. The FOM office is now ran by one FOM until next flight period start.

#### **Weather in Kangerlussuaq/SFJ:**

Weather continues to be mainly cold, cloudy, snowy and windy with temperatures oscillating around -6°C to 8°C. Especially the weekend was windy (sand storms Saturday) and cold (all Sunday below freezing point).

**EGRIP camp communication:**

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**EGRIP field operations office:**

Field Operations Manager (FOM) Iben Koldtoft

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