

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-22-5 EGRIP – SITuation REPort (SITREP) no.06, Sunday 29 May 2022

This SITREP covers the period May 23 – May 29, 2022 (inclusive).

Movement of personnel:

- 23.05.2022 Daniela Jansen (DE), John Drysdale Paden (DE/US), Kerim Hestness Nisancioglu (N), Patrick Smith (US, TUNU team) and Eidur Smári Valsson (IS/US, TUNU team) from SFJ to EGRIP by 109th.
- 23.05.2022 Basile de Fleurian (N/F) from Kangerlussuaq to Copenhagen by Air Greenland.
- 23.05.2022 James A. Haffey (CA, KBA crew), Cory D. Gordon (CA, KBA crew), Tyler J. Watt (CA, KBA crew) and David Bisson-Yassa (CA, KBA crew) from Iqaluit to Kangerlussuaq by KBA Basler (C-GJKB).
- 23.05.2022 Frederik Bugge Nielsen (DK) and Anna-Maria Buschsieweke (DK/DE) from EGRIP to SFJ by 109th.
- 23.05.2022 Joseph Robert McConnell (US, TUNU team), Nathan John Chellman (US, TUNU team), Sophia Michele Wensman (US, TUNU team), Brandon Thomas McDonald (CH/US, TUNU team), Elliot Richard Moravec (US, TUNU team), Tanner Kuhl (US, TUNU team), Drake Owen McCrimmon (US, TUNU team), James A. Haffey (CA, KBA crew), Cory D. Gordon (CA, KBA crew), Tyler J. Watt (CA, KBA crew) and David Bisson-Yassa (CA, KBA crew) from Kangerlussuaq to EGRIP by KBA Basler (C-GJKB).
- 24.05.2022 Helene Pehrsson (DK) from Copenhagen to Kangerlussuaq by Air Greenland.
- 24.05.2022 Frederik Bugge Nielsen (DK) and Anna-Maria Buschsieweke (DK/DE) from Kangerlussuaq to Copenhagen by Air Greenland.
- 24.05.2022 Bruce Hickey Vaughn (US) from EGRIP to SFJ by 109th.
- 25.05.2022 Clemens Collin (DE) from Copenhagen to Kangerlussuaq by Air Greenland.
- 25.05.2022 Nathan John Chellman (US, TUNU team), Brandon Thomas McDonald (CH/US, TUNU team), Elliot Richard Moravec (US, TUNU team), Tanner Kuhl (US, TUNU team) and Drake Owen McCrimmon (US, TUNU team) from EGRIP to TUNU by KBA Basler (C-GJKB).
- 25.05.2022 Joseph Robert McConnell (US, TUNU team), Sophia Michele Wensman (US, TUNU team), Patrick Smith (US, TUNU team) and Eidur Smári Valsson (IS/US, TUNU team) from EGRIP to TUNU by Arctic Trucks.
- 26.05.2022 James A. Haffey (CA, KBA crew), Cory D. Gordon (CA, KBA crew), Tyler J. Watt (CA, KBA crew) and David Bisson-Yassa (CA, KBA crew) from EGRIP to Kangerlussuaq by KBA Basler (C-GJKB).
- 27.05.2022 Eliza Cook (UK) from Copenhagen to Kangerlussuaq by Air Greenland.
- 27.05.2022 James A. Haffey (CA, KBA crew), Cory D. Gordon (CA, KBA crew), Tyler J. Watt (CA, KBA crew) and David Bisson-Yassa (CA, KBA crew) from Kangerlussuaq to Resolute via Iqaluit by KBA Basler (C-GJKB).
- 27.05.2022 Alan Gilbertson (AWI KBA crew), Victoria Grahm (AWI KBA crew), Lucius Cirtwill (AWI KBA crew), Kevin Riehl (AWI KBA crew) from Bremen to Kangerlussuaq via Stavanger and Reykjavik by AWI Basler Polar 5 (C-GAWI).

Movement of cargo:

- 23.05.2022 From SFJ to EGRIP by 109th, 2150 lbs. of PAX and drill flight cases. Total payload 18,100 lbs. (only 650 lbs. EGRIP cargo). No fuel delivered to camp.

23.05.2022 From SFJ to EGRIP by 109th. Total payload 16,935 lbs. (only TUNU cargo). No fuel delivered to camp.

23.05.2022 From EGRIP to SFJ by 109th, 600 lbs. of PAX and luggage.

23.05.2022 From SFJ to EGRIP by Basler, 440 lbs. of PAX and wine/CO₂ to EGRIP camp.

24.05.2022 Field equipment Nasarsuaq to SFJ, (1 colli).

24.05.2022 From SFJ to EGRIP by 109th, 5413 lbs. of logistical and drill equipment and food. Total payload 14,170 lbs. (only 5413 lbs. EGRIP cargo). No fuel delivered to camp.

24.05.2022 From EGRIP to SFJ by 109th, 300 lbs. of PAX and luggage.

25.05.2022 (AWB 631-27994772) CPH to SFJ, 919 kg scientific equipment (31 colli).

27.05.2022 (AWB 653-5507742) Laupheim to SFJ, 4 kg Pistenbully spare parts (1 colli).

24.05.2022 - 25.05.2022 Transfer of TUNU team cargo from EGRIP to TUNU in four Basler shuttles and one Arctic Truck traverse (Battelle-ARO has details on TUNU team cargo).

24.05.2022 - 26.05.2022 TUNU team Basler received 5390 liter fuel from EGRIP tanks.

EGRIP camp activities:

On 24th May we received the last LC-130 flight in this period. The KBA Basler was stationed at EGRIP for a few days to deploy the U.S. TUNU drilling team at their drilling camp some 300 km North of here. In the storage cave, many ice core boxes are stuck along the walls due to three years of snow compression and were dug out. During the week we also began excavation and emptying carpenter's garage in preparation for its elevation to the snow hill. All preparations for the carpenter's garage move were completed by Sunday. On 25th May 2022 the camp population grew to 32, but shrank down to 23 by the end of day, with the departure of the TUNU team to their site by Basler or Arctic Trucks. On the 26th May the Basler flew to Kangerlussuaq, reducing the population to 19. We retrieved two Viessman cabins from the science trench. One will be setup to serve as the laboratory for the drone project and the other will be setup as a server cabin for the upcoming AWI radar survey flights. On Saturday, 28th, seven Norwegian kite skiers came to visit, including HRH Crown prince Haakon of Norway. They got a chance to see our research, and we gave interviews on EGRIPs importance in climate research.

Our focus was on cleaning up camp and maintaining infrastructure over the week. This included casting cable duct towards science trench (completed between elevator and dome), working on electrical cables in camp, performing maintenance on the air craft fuel pump. Furthermore, the remnants of old skiway markers removed and general repairs on snowmobiles, Flexmobil no.2 and the snowblower were carried out. The third and last fuel tank is now excavated and on surface.

Drilling:

No drilling is scheduled before late June.

Science:

At the beginning of the week the TUNU team tested their ground penetrating radar mounted on an Arctic Truck. The radar can detect crevasses and the test was a success. The surface snow "bamboo forest" has been found and the snow surface science program has started. Using a snowblower, the Megapit project members began their excavation of the megapit. Additionally, two science projects are underway: A team will be flying a drone to collect water vapour at various heights in the atmosphere and the resulting samples will be analysed in a laboratory on the surface. Another team will be sampling surface snow, also for isotope analysis among other things.

EGRIP Camp Population (Sunday evening): 26.

Weather at EGRIP:

At the start of the week there was very thin haze/low clouds with temperatures ranging -24°C to -17°C, with low winds and unrestricted visibility. Conditions got colder over the week with temperatures dropping to -28°C to -17°C mid-week, and winds of 4-9 kt from the SW. Visibility remained unrestricted.

Just as the forecast predicted, on Saturday afternoon the wind turned and picked up, temperatures rose and we got the first snow fall this season. Temperatures increased to -13°C to -6°C and wind picked up to 9-24 kt from the South. During periods of snow, the visibility 1 km, but otherwise remained unrestricted over the weekend.

Kangerlussuaq activities:

In the beginning of the week we got our last field team members and cargo to camp on "space available basis" on the TUNU missions to EGRIP. Many thanks to our American logistics colleagues! We received cargo for the coming flight period and organized it in the warehouse. We are still working on getting the internet in the warehouse to work. We welcomed Helene and Eliza as FOMs, overlapping with Iben.

Tuesday we got an field participant out of camp with altitude sickness. We received the AWI KBA Basler (C-GKBA) crew on 27th May from Reykjavik, before the airport closed for the weekend maintenance. We built three pallets, and completed one fully for the upcoming flights in June. The white Volkswagen broke down Saturday, and required maintenance from Søren. Sunday evening, we received news from the Field Leader that an EGRIP participant was suffering from altitude sickness and respiratory complications and started preparations for a possible evacuation in the case that a medevac would be required on the following day (Monday 30th) and that checked possibilities of using the Basler.

Weather in Kangerlussuaq/SFJ:

Overcast and cold at the beginning of the week until Friday, with light snow all day Tuesday and early morning snow on Thursday and Friday. There was also hail on Friday afternoon. Sunshine and blue sky came on Saturday and Sunday. The large lakes around Kangerlussuaq are still frozen and there is sea ice persists well into the fjord. Daytime temperatures ranged between -3°C to +10°C. No Mosquitos at present.

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