

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-19-6 EGRIP – SITUATION REPORT (SITREP) no. 10, Sunday June 30, 2019

This SITREP covers the period June 24 – 30, 2019 (inclusive).

Movement of personnel:

- 24.06.2019 Jan Oechsle (DK), Johannes Lohmann (DK), Naoko Nagatsuka (J), Estelle Ngoumitsa (DK), Tomotaka Saruya (J), Alexandra Zuhr (D), Aslak Grinsted (DK), Falk Oraschewski (DK), and Abby Thayer (US) from CPH to SFJ by Air Greenland.
- 25.06.2019 Jan Oechsle (DK), Johannes Lohmann (DK), Nan Zhang (CN), Bing Li (CN), Naoko Nagatsuka (J), Estelle Ngoumitsa (DK), Tomotaka Saruya (J), Alexandra Zuhr (D), Aslak Grinsted (DK), Falk Oraschewski (DK), and Abby Thayer (US) from SFJ to EGRIP by the 109th.
- 25.06.2019 Lucas Borges da Silva (CH), Matthias Hüther (D), Søren Børsting (DK), Francois Burgay (IT), Morihiro Miyahara (J), Karl-Emil Nielsen (DK), Margareta Hansson (S), Maaïke Weerdersteijn (N), Clint Conrad (N), Kate Selway (N), Silje Smith-Johnsen (N), Anne-Katrine Faber (N), Valerie Morris (US), Richard Nunn (US), Gregor Sailor (AT), Jean Gabriel Andre Xavier Leynaud (F), Quentin Thierry Esperse (F), and Thibault Antoine Vincent Bernard (F) from EGRIP to SFJ by the 109th.
- 26.06.2019 Maaïke Weerdersteijn (N) hike from SFJ to Sisimiut.
- 26.06.2019 Søren Børsting (DK) from SFJ to Nuuk by Air Greenland.
- 27.06.2019 Lucas Borges da Silva (CH), Matthias Hüther (D), Karl-Emil Nielsen (DK), Margareta Hansson (S), Clint Conrad (N), Kate Selway (N), Silje Smith-Johnsen (N), Anne-Katrine Faber (N), Gregor Sailor (AT), Jean Gabriel Andre Xavier Leynaud (F), Quentin Thierry Esperse (F), and Thibault Antoine Vincent Bernard (F) from SFJ to CPH by Air Greenland.
- 28.06.2019 Valerie Morris (US) and Richard Nunn (US) from SFJ to NY by the 109th.
- 28.06.2019 Francois Burgay (IT) from SFJ to CPH by Air Greenland.
- 29.06.2019 Morihiro Miyahara (J) from SFJ to CPH by Air Greenland

Movement of cargo:

- 25.06.2019 11 PAX and one pallet of science equipment, food and luggage (2700 lbs), and one pallet of weatherport boxes (2200 lbs), total 7,520 lbs from SFJ to EGRIP by the 109th. 8775 L of fuel delivered to camp.
- 25.06.2019 18 PAX, one pallet of MAGPIE equipment (4000 lbs), one pallet of airdrop equipment (1000 lbs), and one pallet of luggage (1,500 lbs), total 10,280 lbs from EGRIP to SFJ by the 109th.
- 26.06.2019 689 kg (21 cll) of scientific equipment for the MAGPIE project from SFJ to Germany and Australia.
- 26.06.2019 From Aalborg to SFJ with ship, 1500 kg (5 cll) of food.
- 26.06.2019 From Aalborg to SFJ with ship, 1200 kg (4 cll) of frozen food.
- 27.06.2019 AWB 631-01921533 from SFJ to CPH by Air Greenland, 2791 kg of ice core samples (64 cll).

EGRIP camp activities:

Late afternoon Monday drilling was resumed and the 4 media DVs in camp was thus luckily able to observe the entire drilling and logging process before leaving camp on skier 41 Tuesday. The skier brought both cargo, 8775 liters of fuel and 11 new camp members to EGRIP, while 14 camp members, the four media

DVs and MAGPIE as well as Airdrop retro cargo left for SFJ. Thus, the number of people in camp was reduced from 40 to 33. Wednesday was used to get the new camp members into all the science routines, and was uneventful until the late afternoon when the vapor drone crash-landed terminating this season's drone program after 8 successful flights. The rest of the week was used for production drilling, processing, CFA, PP and surface measurements. Saturday we celebrated passing 2000m drillers depth (and finishing the brittle ice processing the day before) with "EGRIP Olympics" and were blessed with beautiful weather for the games.

Drilling:

After recovering two missing parts of the broken termination Monday, drilling recommenced in the afternoon. Production drilling was started Wednesday, but is somewhat slowed by cable spooling issues on the winch. These spooling issues are believed to persist due to cable stretching having meaning that some parts of the cable have a slightly smaller diameter than others. Nevertheless, the drillers managed to produce 83.04 meters of high quality ice cores during the week, by working in 3 shifts – with the night shift mainly devoted to filtering the bore hole. Logged depth at end of week was 2022.14m

Science:

The science trench was fully operational during the entire week and good progress was thus made in the processing line where bags 1730 to 1930 (end of brittle ice) as well as bags 3200 to 3277 were processed (i.e. 279 bags processed in total). In the CFA cabin a total of 185 bags were measured (last bag 1848), while the PP measurements reached bag 1906.

As core buffer temperatures were found to have risen to -18°C Wednesday, two walls/seals were introduced between the drill trench and core buffer to stop air flow. Sunday morning temperature in the core buffer had dropped to -20°C.

On the surface atmospheric and surface measurements continued as planned even though the drone program had to be terminated mid-week. Measurements of the GPS stakes around camp were commenced Friday.

EGRIP Camp Population: 33

Weather at EGRIP:

The beginning of the week was mainly sunny, but just 20 minutes after receiving skier 41 EGRIP experienced the first snow shower. The rest of the week was dominated by cloudy conditions and snow showers with only a few sunny spells now and then. The change in weather was in accordance with a change in wind from SW over NW to generally northerly winds during the latter part of the week. Wind strength has been moderate mostly between 5-15 knots, with a single period of complete calm and without any severe blows. Temperatures were generally mild: -16°C to -5°C, except for the first morning in the week where the thermometer showed -19°C.

Kangerlussuaq activities:

Beginning of the week were busy with a large crew exchange and hosted two media groups with excursions around Kangerlussuaq after their visit so camp. We delivered a science presentation one morning for a high-ranking DV from the 109th. Sune left the FOM office on June 27th and we therefore were busy with picking up 9 pallets of food from the ship and handled in 21 cll of science equipment and 64 cll ice core/snow samples for shipping out of Greenland.

Late in the week, preparation for next flight period has started by repacking food from ship and preparing PAX manifests.

A young, small polar bear was spotted around the ice edge outside Kangerlussuaq beginning of the week. In the Sunday afternoon, a local hunter with permission from the police shot the bear close to the road near the plane wrecks out of town. No people came close to the bear.

Weather in Kangerlussuaq/SFJ:

Cloudy most of the week with either periods of rain/drizzle or sunny spells. Temperatures between 6-17°C. Mosquito level very low.

The EGRIP camp:

EastGRIP camp

IP phone: +45 7734 7444 ext. 401 (field leader), ext. 402 (1st floor in dome)

Iridium +8816 777 62837

The EGRIP FOM office:

EastGRIP field operations office

Kangerlussuaq, Greenland

Office: KISS, room 208

Postal address: Box 12, DK-3910

Phone: +299 84 11 51

Mobile: +299 52 41 25

IP phone: +45 7734 7444 ext. 301

E-mail: fom@egrip.camp

Prepared by Kangerlussuaq Field Operation Managers Sune Olander Rasmussen and Iben Koldtoft, and EGRIP field leader Bo Vinther