

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-22-5 EGRIP – SITuation REPort (SITREP) no.16, Sunday 7 August 2022

This SITREP covers the period August 1 – August 7, 2022 (inclusive).

Movement of personnel:

No movement of personnel this week.

Movement of cargo:

02-08-2022 35 kg medical oxygen machine from CPH to Kangerlussuaq.

EGRIP camp activities:

After completion of the new and larger ramp to the drill trench, the green balloon was inflated on the surface and then deflated in a flat sheet and folded up. In preparation of mounting solar panels on the dome next year, a set of pyranometers were mounted on the dome and attached to data loggers. This way, we will have readings from the last three weeks. This will allow us to properly dimension a future solar power supply. The last person came out of COVID quarantine on Wednesday. There have been no more cases in camp. There has been routine maintenance of our three Pistenbullys and snowmobiles. The white storage garage was dug free of snow and all material taken out. It has subsequently been pulled onto a new snow hill and refilled. The snow surface in camp was cleaned as well as the storage in the concert hall.

Drilling:

This week drilling continued until Thursday with the long drill. Friday drilling continued testing the AWI inner and outer barrel and Saturday the short HT drill was tested. After this, drilling at EGRIP 2022 was stopped at a depth of 2418.23 m. Now the drillers are filtering the hole in preparation of a sequence of bore hole logging operations: Danish logger, DAS seismics logger, new Danish logger and borehole camera. After this, the hole will be free for the last experiment in 2022: The UK cryoeegg experiment. Regular drill production was about 15-20 m per day.

Total production this week: from 2330.82m to 2418.23: 87.41 m.

2418.23 m is the final depth of EGRIP 2022.

Science:

Processing ice cores from bag 4040 to bag 4384 (2411.2 m) with less than 10 m ice core remaining, in total 345 bags or 189.75 m ice core.

The DAS seismic project is progressing. All work at the shear margin has been completed and the team now prepares for borehole DAS logging.

The Canadian project runs a laboratory in a Viessmann cabin on the surface in camp. They have so far sampled snow for mercury measurements in a 4 m deep snow pit.

The 140 m deep S3 shallow borehole was logged with Danish thermistor probe and with AWI logger.

EGRIP Camp Population: 21

Weather at EGRIP:

Weather at EGRIP this week was mostly fine with only one day with overcast. Many days with morning and evening fog are typical for the season. Day temperatures have been from -6 C to -11 C and night temperatures were from -9 C to -25 C. Mild winds at 2- 11 kt with one day at 15 kt but no snow drift and no new snow fall. Winds mainly from westerly directions.

Kangerlussuaq activities:

Since there have been no flights this week, practical activities have been moderate. Planning for the next flight period is on the way, as EGRIP expects an important DV visit next weekend. Used field clothes from the last team was washed and dried and made ready for the next group of people. KISS has been Corona free the last five days.

Weather in Kangerlussuaq/SFJ:

Most days with low overcast and rain. The cold and wet weather, which also was up and down along the west coast, has caused several days of very irregular airplane traffic to and from Kangerlussuaq. Temperatures between +8°C and +16°C. Mosquitos are disappearing, but little black mites are numerous and stinging.

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Kangerlussuaq FOM

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