

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-19-5 EGRIP – SITUATION REPORT (SITREP) no.04, Sunday 19 May 2019

This SITREP covers the period May 13 – May 19, 2019 (inclusive).

Movement of personnel:

13.05.2019 Hans Christian Steen-Larsen, Sonja Wahl Kangerlussuaq to EGRIP by Basler

14.05.2019 Niels Hvidberg to Kangerlussuaq by Air Greenland

Movement of cargo:

13.05.2019 (AWB 631-2756 7713) CPH to SFJ, 901 kg AWI scientific cargo

13.05.2019 (AWB 631-2756 7606) CPH to SFJ, 139 kg AWI scientific cargo

13.05.2019 SFJ to EGRIP by Basler, 3700 lbs

13.05.2019 EGRIP to SFJ by Basler, 17 ice core boxes 2100 lbs

EGRIP camp activities:

Put-in of the AWI Polar 5 team was completed on Monday. Work on removing snow blocks from the trenches continued throughout the week. The EGRIP surface team has been handling Polar 5 activities: Fuel, loading, unloading and radio. The skiway, taxi ways and apron have been groomed and special parking spots for Polar 5 and Twin Otter constructed. All skiway markers have been raised and in some cases repositioned. By the end of the week, the final removal of winter snow in camp was completed. Camp is now setup for the rest of the season. Due to persistent light snow drift, the entrances to drill trench and cook freezer had to be cleared by snow blower several times. Staircase to drill trench has been reopened and installation of ventilation system is in progress. Internet is working, all vehicles are running and camp infrastructure operational.

Drilling:

During the week, final modifications of ceiling and walls in the drill trench were done and the drill tower was re-aligned. Motor sections and electronics of the deep drill were tested, and the drillers are ready to make the first filter runs to clean the hole on Monday.

The DK shallow drill has been active at four sites. A 40.3 m test core (EGRIP S7 2019, N75 37'44.4"; W35 58' 49.3") was drilled close to EGRIP and at B16 and B19 (The AWI team, see below), and it was also used to remove an ice blockage in the NEEM borehole.

Science:

The AWI team has successfully concluded shallow ice coring and P-RES radar survey at sites B16 (N 73°56'07.9"; W 37°36'58.2", 36.7 m deep) and B19 (N 77°59'33.4"; W 36°23'32.0", 37.11m deep) .

With the assistance and good will of AWI Polar 5 and the AWI team, borehole logging at NEEM has been successfully completed. The NEEM team will be picked up Monday.

Isotope CFA laboratory is now in production mode. This week, they have measured from 1061.5 m to 1105.5 m of the EGRIP main core.

The water vapour sampling site is now set up and the first calibrations have been made.

Work on setting up a facility to handle water vapor samples collected by drone is in progress. The GEUS seismometer in the ice core buffer has been successfully re-aligned and is now recording earthquakes in a good way again.

The first snow cores have been analyzed with CT-scanner, and the LISA box is activated and almost ready for the first samples.

Pit studies, snow sampling and P-RES measurements have been made at NEEM site.

EGRIP Camp Population:

Population 24 at EGRIP and 2 people at NEEM site

Weather at EGRIP:

Mostly fine, with periods of overcast, slight snow drift but no precipitation. Temperatures from -9 °C down to -32 °C. winds from 4 m/s to 9 m/s mainly from SW. Visibility: mostly unrestricted.

Kangerlussuaq activities:

Receiving AWI cargo. Preparing loads for Basler flights. Obtaining small orders for camp.

Weather in Kangerlussuaq/SFJ: Generally nice weather with cloudy days and a little bit of rain.

Temperatures are rising, first mosquitoes spotted in front of KISS on Friday

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