

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

Expedition Permit C-18-5 EGRIP – SITUATION REPORT (SITREP) no.14, Sunday 29 July 2018

This SITREP covers the period July 23 – July 29, 2018 (inclusive).

Movement of personnel:

- 23. July:** Vasileios Gkinis (GR/DK), Christine Hvidberg (DK), Kadir van Lohuizen (press-NL), Martijn Blekendaal (press-NL), Pim Hawinkels (press-NL), John Renner Hansen (DK-DV), Henrik C. Wegener (DK-DV), Tommy Ahlers (DK-gov), Rasmus Bebe (DK-gov), Lise Banke (DK-gov), Jakob Sejr (DK-gov), Frej Dichmann (DK-gov) from Kangerlussuaq (SFJ) to Copenhagen by Air Greenland.
- 23. July:** Steen Riisgaard (DK-DV), Lis Riisgaard (DK-DV), Lars Hansen (DK-DV), Lise Stentoft (DK-DV), Thomas Bjørnholm (DK-DV), Berith Bjørnholm (DK-DV) and Jan W. Thomsen (DK-DV), Doris Jakobsen Jensen (DK/GL-gov), Tine Pars (DK/GL-gov), Rosa Thorsen (DK/GL-gov) and Steen Lund (DK/GL-gov) from Kangerlussuaq (SFJ) to Nuuk (GOH) by Air Greenland.
- 24. July:** Ernst-Jan Kuiper (NL/D), Abigail Thayer (US), Mari F. Jensen (NO), Jakob Schwander (CH), Remo Walther (CH), Lasse Eriksen (DK), Steffen Bo Hansen (DK), Barbara Seth (D/CH), Jan Tell (D), Ikumi Oyabu (J), Chis Jacobs (UK), Pia Götz (D), Lisa Griem (D/NO) from Kangerlussuaq (SFJ) to Copenhagen by Air Greenland.
- 24. July:** Bo Vinther (DK) from Kangerlussuaq (SFJ) to Ilulissat (JAV) by Air Greenland.

Movement of cargo:

- 23. July:** 6 EU pallet of RADIX cargo (1739 kg) from SFJ to Aalborg by ship.

EGRIP camp activities:

The week started out with establishing of new routines in the drill trench, science trench and surface program after ended flight period. All empty ice core boxes were stored in the new balloon trench (concert hall). In preparation for testing the University of Alabama Mills-Cross radar after next flight period a 19 m x 18 m balloon sledge was inflated and assembled for testing. The cooling system in the loggers' cabin has been removed from the cabin and on the surface as the processing of the brittle ice is finalized.

Drilling:

Drilling continues in two teams during the day and a filtering team during night. Logging from 1553.67m to 1664.04m.

Drill report 23/7 -> 30/7

Progress: 1555.47m - 1650.75 = 95,28m

The new drill teams seem to have adopted a good rhythm and most tasks are now becoming part of the daily routine. Drilling is continuing at a good pace, using the reinforced core barrel with a pitch of ~1.8mm and a hollow shaft with a three bladed 3D printed PETG booster. The chips produced with this setup look nice and coarse, with a size of several mm. Chip recovery is fine and stable, with a nearly full chip chamber recovered after each run. Despite this, the nightly filtering continues as usual, with an average of two filter runs, recovering 50-60kg of slush. The weekly filtering starting Sunday has continued through Monday, and

at the time of writing 9 filter runs have been carried out recovering about ~250kg of slush. The filtering is expected to be finished latest Tuesday morning. This will hopefully give us some room to have a full production of 6 ice cores on average the last 5.5 days of drilling, before the hole will be filtered, and lastly logged at the end of the drilling season.

Science:

Processing from 1452.55m to 1622.50 m

Isotope laboratory from 1298.55m to 1390.40m

Physical properties lab from 1405.80m to 1565.30 m

Water vapor sampling and measurement continued as usual and a 48 hrs snow sampling campaign was done in which snow was collected every 3 hours for investigation of the diurnal cycle.

GPS/drone: This year's campaign of remeasuring the GPS net has started and the main strain net has been remeasured. A new net is being established around the RADIX site. A drone measurement campaign has been made over the EGRIP camp area.

EGRIP Camp Population: 32.

EGRIP iridium numbers:

Primary no.: +8816 7776 2837

Iridium Open port, field leader

Secondary no.: +8816 7776 2838

Common phone, main dome

Third no.: +8816 7776 2839

Handheld satellite phone

EGRIP night time phone to field leader: +8816 234 93 166 or +45 7734 7444 ext. 490

EGRIP direct phone: +45 7734 7444 ext. 401

Link to webcam and weather station: <http://alice.egrip.camp/>

Weather at EGRIP:

Most days have been sunny with few clouds and a few times with light snowfall. One day with overcast the whole day. Temperatures were between -22 C and -5 C and the wind was between 0 and 10 knots most days from 220-310T.

Kangerlussuaq activities:

Sorting out the RADIX cargo and handing it in for return shipping by ship. Handling the many PAX going in and out of KISS e.g. picking PAX up in the airport/driving PAX to airport, getting room keys, getting rooms cleaned, arranging the EGRIP dinners at the Roklubben, helping the media team and going on tours to the ice front with the Villum group and Black Ridge with ministry groups. Handing in laundry and sorting out clean gear in the warehouse. Handle in the first 53 ice core boxes for shipment to Copenhagen next week.

Weather in Kangerlussuaq/SFJ:

Grey and overcast days with rain. Sunny spells when going on trips to the glacier front and in the end of the week. Temperatures between 6 and 23 degrees. Midweek snow on top of the mountains surrounding Kangerlussuaq was observed. It did not kill the mosquitoes.

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