

**TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.**

**PROJECT EGRIP (C-16-5) – SITUATION REPORT (SITREP) no.10, Sunday 19th June 2016.**

This SITREP covers the period 13<sup>th</sup> June – 19<sup>th</sup> June, 2016 (inclusive).

**Movement of personnel:**

**June 13** Malte Winter (DK) and Lars Berg Larsen (DK) from SFJ to CPH by Air Greenland

**Movement of cargo:**

**June 13** 387 kg (853.19 lbs) 11 boxes of science equipment (AWI, Simon Sheldon, Lars B Larsen), from SFJ by CPH Air Greenland (AWB 631-0190 5105).

**June 15** 15886 kg (35,022.9 lbs) 4 x 20 ft shipping containers from DK (including 2 x RECAP 2015) delivered by Bluewater delivered to SFJ. One Toyota forklift stuck at harbour, awaiting delivery. (Waybill AAL1560368, AAL1560369, AAL1566231, AAL1562045).

**June 16** 1210 kg (2667.59 lbs) 39 boxes of ice core samples; 29 AWI boxes, 2 Todd Sowers' boxes, from SFJ to CPH by Air Greenland (AWB 631-0190 5186)

485 kg (1069.24 lbs) 19 boxes of science equipment delivered to SFJ from K. Nakazawa et al, NIPR, Tokyo Japan by SAS to (AWB 117-34548846)

**Camp activities:**

At the beginning of the week, beam support was installed for the drill tower and winch in the drill trench. The Viessmann workshop was constructed at the back end of the trench and equipment was moved inside. Good weather permitted the departure of the Twin-Otter with the 'Nettles group on Monday June 13th in the morning', following which a complete grooming of skiway, apron, and camp was undertaken with beam and tiller. Over consecutive days the team worked to remove many tons of snow blocks to create an inclined trench in the drill trench; the final depth is 7.1 m. Towards the end of the week work began, and continues to mount an ice core buffer at the far end of the science trench. A food order was created for the next flight period and the cook's freezer was organised.

**Science activities:**

On a daily basis, a snow surface profile is sampled in the clean snow area and instrumentation installation for the surface processes was finalised during the week, resulting in continuous measurements now available. An exciting development was the first analysis of the snow crystal surface area using new laser instrument. Furthermore, a newly installed tower and analytical system in the 'water vapour tent' was demonstrated; this setup automatically measures the isotopic composition of water vapour at four different heights above the snow surface and horizontal and vertical wind speeds are also measured. The combination of those measurements allows to calculate the isotopic flux of water molecules in and out of the snow-pack. The analyses will allow for an improved interpretation of the climate signal recorded in ice cores.

**Drilling activities:**

At the Swiss drill test site, the borehole camera and casing were re-installed. In addition, the pressure and new melt head configuration were tested ahead of first drilling attempts at the site.

Three 11 m EGG cores were drilled by hand auger for the ETracer Project. The first (EGRIP 2016 – EGG core 1) was retrieved from the bottom of a 2.20 m deep pit located N 75.63095 W 35.99660. All three cores will be analyzed for density at AWI. The boreholes are now covered with plywood and marked with a flag. The second (C) was drilled from the bottom of a 2.20 m deep pit located some 12 km NW of camp at N 75.7062 W 36.2979. The third, (EGRIP 2016 – EGG core 3) was drilled from the bottom of a 2.20 m deep pit located some 14 km NW of camp at N 75.7140 W 36.3300.

**EGRIP Camp Population:** 15 people

**EGRIP iridium numbers:**

+8816 777 37835 (Camp, primary number)

+8816 234 93272 (secondary)

**Weather at EGRIP:**

The beginning of the week sunny and calm weather, with wind from the SW and temps -4 to -16C, changing to overcast midweek with temperatures warming slightly to -4 to -10C and winds from the NE and NW. Sunny weather and a SW winds returned at the end of the week.

**Kangerlussuaq activities:**

Sending passengers at the beginning of the week then preparing and sending cargo in three shipments to CPH, including AWI and Todd Sowers' samples. Received 4 x shipping containers mid-week (one needed to be traced in Kangerlussuaq – it was wrongfully released by Blue Water to another recipient). Two containers have been emptied of contents, ready to be returned to Blue Water. Six pallets, including one T3 (for core casing), have been readied for the next flight period. Progress has been made with the construction of these. DV visits and manning plan overviews have been compiled for the coming flight period.

**Weather in Kangerlussuaq/SFJ:** Sunshine and blue sky at the beginning and end of the week and colder temperatures and rain showers mid-week. Daytime temperatures ranging between +10 to +23C. Mosquito season. Repellent required.

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