

TO EGRIP STEERING COMMITTEE MEMBERS, DANISH AND GREENLANDIC AUTHORITIES.

PROJECT EGRIP (C-16-5) – SITUATION REPORT (SITREP) no. 11 Sunday June 26th, 2016.

This SITREP covers the period June 20th – 26th, 2016 (inclusive).

Movement of personnel: Movement of personnel:

June 21st Sune Olander Rasmussen (DK) from CPH to SFJ by Air Greenland.

June 22nd Nanna Karlsson (D) from CPH to SFJ by Air Greenland.

June 23rd Eliza Cook (DK) from SFJ to CPH by Air Greenland.

June 24th Jens Christian Hillerup (DK), Steen Rhydahl Larsen (DK), Anders Jørgensen (DK), Elizabeth Bagshaw (UK), Josefine Dahlerup (DK), Markus Tritscher (DK), Peter Voss (DK), Naoko Nagatsuka (J), and Fumio Nakazawa (J) from CPH to SFJ by Air Greenland.

June 25th Elizabeth Bagshaw (UK), Jens Christian Hillerup (DK), Steen Rhydahl Larsen (DK), Anders Jørgensen (DK), Josefine Dahlerup (DK), Markus Tritscher (DK), Nanna Karlsson (D), Peter Voss (DK), William Ambrose (US), Paul Anderson (US), Colene Haffke (US), James Kelly (US), Nature McGinn (US), Brad Stefano (US) from SFJ to EGRIP by the 109th NYANG.

Trevor Popp (DK), Dennis Wistisen (DK), William Ambrose (US), Paul Anderson (US), Colene Haffke (US), James Kelly (US), Nature McGinn (US), Brad Stefano (US) from EGRIP to SFJ by the 109th NYANG.

Martin Vindbæk Madsen (DK), Dorthe Dahl-Jensen (DK), Christian Holme (DK), and Eliza Cook (DK) from CPH to SFJ by Air Greenland.

June 26th Dorte Rasmussen (DK) from CPH to SFJ by Air Greenland.

Ingerid Salvesen (N), Elizabeth Kolbert (US), Linda Næsfeldt (N), Martin Vindbæk Madsen (DK), Dorthe Dahl-Jensen (DK), Christian Holme (DK), Naoko Nagatsuka (J), Fumio Nakazawa (J), Steen Jensen (GL), and Bent Møller (GL) from SFJ to EGRIP by 109th NYANG.

Jakob Schwander (CH), Barbara Seth (CH), Niccolo Maffezzoli (DK), Anders Svensson (DK), Steen Jensen (GL), and Bent Møller (GL) from EGRIP to SFJ by 109th NYANG.

Movement of cargo:

June 25th 14,620 lbs / 6,645 kg of food, generator spare parts, drilling equipment plywood, drilling boxes, electrical appliances, satellite communication equipment, and building materials plus 2,030 L / 3,900 lbs of fuel from SFJ to EGRIP by 109th NYANG.

June 26th 12,750 lbs / 5,795 kg of drilling equipment, casing tubes, drilling fluid handling system, scientific equipment, ice-core boxes, plus 1,550 L / 2,974 lbs of fuel from SFJ to EGRIP by 109th NYANG.

3,800 lbs / 1,730 kg of rapid access drilling equipment and trash from EGRIP to SFJ by 109th NYANG.

Camp activities:

In the drill trench, the inclined trench was finalized and a safety fence was mounted. The construction of a floor has been initiated and the workshop has been furnished. In the back end of the science trench, an ice core buffer for storage of 300 m ice core was set up.

A large satellite receiver pointing to a geostationary satellite was installed. The receiver was mounted to a German sledge on a snow hill in the southern end of camp. Unfortunately, it was concluded that the received signal was too low for receiving and transmitting data.

Science activities:

The surface processes science program continued with daily sampling of snow surface samples in the clean snow area and automated atmospheric measurements. The open snow surface roughness was measured. The AD 2012 melt layer was sampled in a pit for gas analysis, and the first cryo-eggs have been placed in 11 m deep boreholes.

Drilling activities:

At the Swiss drill test site, the innovative drill-liquid-driven mini-drill successfully penetrated in polar glacier ice for the first time. In two drilling attempts, 23 meters were drilled from the bottom of the 70 m deep pilot hole. After the drilling test, the bore hole was partly emptied for drill liquid by blowing compressed air to the bottom of the hole.

The 4-inch Hans-Tausen drill was set up some 300 m W of camp for retrieving the EGRIP 2016 S1 shallow core. This core will be synchronized with the main core in order to bring the profile up to surface. A 60.66 m long core was retrieved, logged, and packed in ice core boxes. A shorter core for outreach purposes was retrieved from the same site. Furthermore, a 3 m deep pit was sampled at high depth resolution.

Position (160621) of 2016 S1: 75.6292 N, 36.0029 W (309 m bearing 246.7° (WSW) from the EGRIP reference pole (160623) at 75.6303 N, 35.9926 W)

EGRIP camp population: 25 people.

EGRIP iridium numbers:

+8816 777 37835 (Camp, primary number)

+8816 234 93272 (secondary, night)

Weather at EGRIP:

Mostly sunny but with snowfall and overcast conditions Friday and the night towards Saturday. Temperatures at night down to -15°C and daily temperatures up to -4°C . Winds predominantly from WSW.

Kangerlussuaq activities:

The main activity this week has been the continued unpacking of container cargo and repacking parts hereof on pallets for the LC-130 missions to camp. At the same time, there has been quite an inflow of personnel.

Weather in Kangerlussuaq/SFJ:

Changeable, temperatures in the $10\text{-}20^{\circ}\text{C}$ range with some rain, mostly drizzling.

Mosquito level moderate.

The EGRIP FOM office:

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EGRIP Field Operations office,

Sune Olander Rasmussen and Eliza Cook