

Little Dome C

Beyond EPICA Oldest Ice Drilling Site (75.29917 °S, 122.44516 °E)

Situation Report 8, 4. December 2023

Personnel @LDC:

Saverio Panichi (ENEA, Camp Leader), Olivier Alemany (CNRS), Philippe Possenti (CNRS), Matthias Hüther (AWI), Remi Dallmayr (AWI), Gunther Lawer (AWI), Johannes Lemburg (AWI), Andrea Ceinini (ENEA), Federico Scoto (CNR), Tamara Gerber (UCPH), Iben Koldtoft (UCPH), Julien Westhoff (UCPH), James Veale (BAS), Michaela Mühl (UNIB), Fortunat Joos (UNIB), and Inès Gay (IPEV)

Weather at LDC 5 pm: sunny

Meteo at DC 5 pm: no data today



The two Pistenbullies went back to Concordia to pick up three drilling fluid IBCs, some empty ice core boxes and cargo. At LDC we finished to prepare the science/processing line, and are almost finished with setting up the drill.

What we did today at LDC:

- We set up dual-tube snow sampler;
- We finished to set up the packing area in the science trench;
- We finished calibrating the DEP;
- Now the science trench is ready to process ice cores and we will start tomorrow;
- We set up a new ventilation in the “pig”;
- We are finished electrical connection between motor section the antitorque section;
- We set up the whole outer tube and tested the motor section linked to the antitorque section, the cable and the drill driver;
- We set up one hollow shaft, and a drill head is being prepared;
- We plugged a temperature sensor to one of the communication cables between the recreation tent and processing cave;



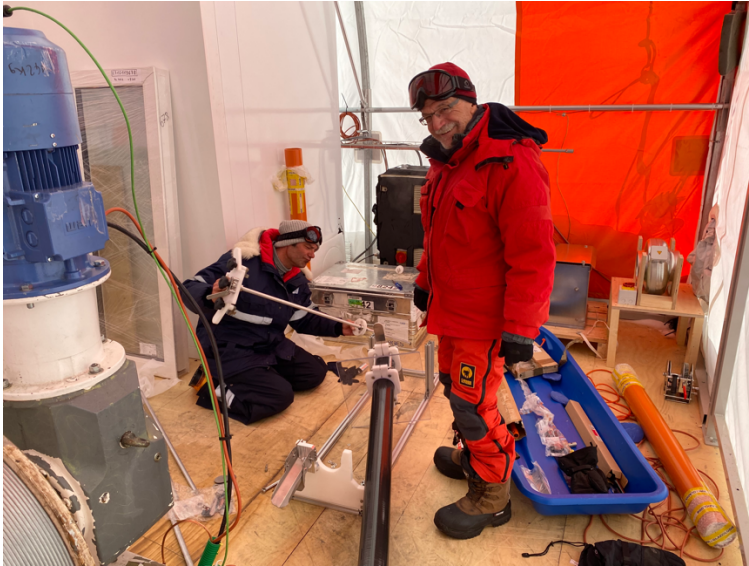


Figure 1: Fortunat and Remi setting up the dual-tube snow sampling: photo O. Alemany



Figure 2: the science trench ready to start processing



Figure 3: the drill on the tower: photo O. Alemany



Figure 4: Philippe and Ines building shelves for the "hospital": photo O. Alemany

OA, MH, JW, and SP, 04.12.2023

