

Little Dome C

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

Situation Report 23, 09. December 2024

Personnel @LDC:

Lisa Ardoin (ULB), Marie Bouchet (CNRS), Ailsa Chung (CNRS), Danilo Collino (ENEA, Camp Leader), Inès Gay (IPEV), Matthias Hüther (AWI, Chief Driller), Manuela Krebs (AWI), Gunther Lawer (AWI), Johannes Lemburg (AWI), Martin Leonhardt (AWI), Michele Scalet (ENEA), Federico Scoto (CNR), Barbara Seth (UNIBE), Lison Soussaintjean (UNIBE), Julien Westhoff (UCPH, Chief Scientist), Frank Wilhelms (AWI, PI in the field)

Weather at LDC 5 pm: sunny

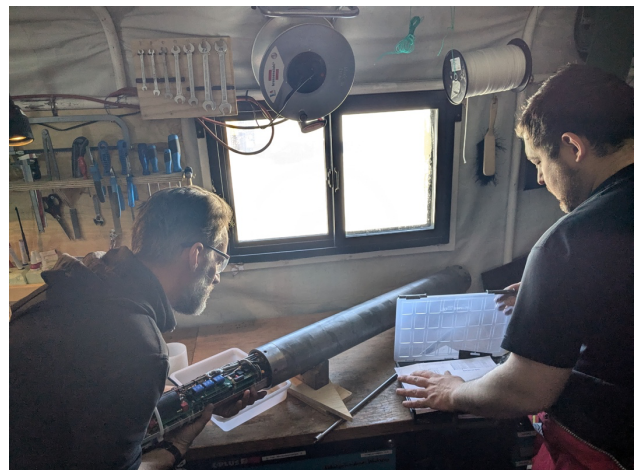
Weather at DC 5 pm: temperature: -26°C, wind 2 knts



Boring. We did 6 runs between 19:30 yesterday and 19:30 today. As the electronics was increasingly often shutting off, we switched to the other module during the evening. We observed a few more anti-torque rotations, but these resolved by tightening the anti-torque and we resumed stable drilling again. Today, processing continued with 31 m. The PICARRO team continued processing samples by manual injection. Danilo and Michele went to Concordia and stored the 46 ice core boxes in the balloon cave. A huge thank you to the Concordia crew who supported the sudatory operation with 16 crew members! On the way back Danilo and Michele brought new supplies and pre-prepared food, again a huge thank you to the chefs at Concordia!



Matthias and Lemmi checking the replaced electronics.  
Credit: L. Soussaintjean ©PNRA/IPEV



No drill liquid found in the electronics, just a broken shield of a cable. We assume it should work stable again and be a reliable spare on the shelf. Credit: L. Soussaintjean ©PNRA/IPEV



Approaching Concordia station after 38 km over-land travel. Credit: D. Collino ©PNRA/IPEV

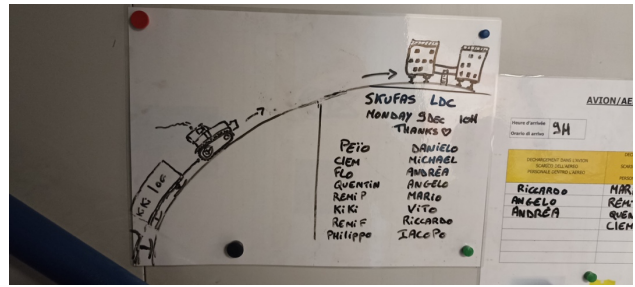


The "sfusi" sled backwards on the ramp of the balloon cave. Credit: D. Collino ©PNRA/IPEV





The entrance to the balloon cave.  
Credit: D. Collino ©PNRA/IPEV



All the supporting hands for the boc movement.  
Credit: D. Collino ©PNRA/IPEV

**End of day statistics at 19:30:**

- Driller's depth: 2268,75 m;
- we did 6 runs between 19h30 and 19h30. The length of these cores was: 4.015, 4.41, 0.24, 4,52, 4.36, 4.52 (driller length, last run #766), for a total of 22.065 m;
- Logger's depth: 2266,84 m
- Current processing depth: 2235 m; daily total: 31 m; season total: 538 m.

FW, JW, MH, 09.12.2024

