

Little Dome C

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

Situation Report 16, 02. Dezember 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: -33°C, wind 3 knts



Boring. We did 7 runs between 19:30 yesterday and 19:30 today. During the morning, an edge broke off the inner staggered cutter, and we switched back to the prepared drill head with standard cutters. Processing continued with 36 m today and is slowly closing in with drilling. Last Saturday, Danilo and Michele brought more ice-core boxes from Concordia, which we used to build shields for the logging table and the processing area. The drill liquid they fetched last week from Concordia is located next to the drill tent, ready for use. The PICARRO has a problem with the internal heating and we switched to the other instrument.



Inès and Lemmi installing our new cupboard.
Credit: M. Krebs ©PNRA/IPEV



Innermost step cutter with damaged edge.
Credit: F. Wilhelms ©PNRA/IPEV



Reduction of diameter by the modified cutters, when running in one spot. Credit: F. Wilhelms ©PNRA/IPEV

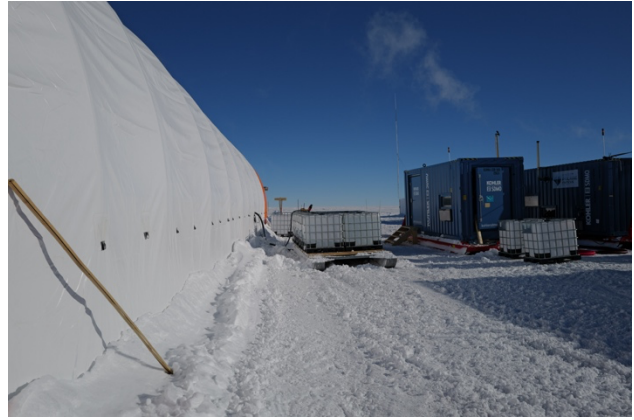


Wall built from core boxes to shade the area of the logging table. Credit: F. Wilhelms ©PNRA/IPEV





Wall built from boxes to shade the entrance of the processing area. Credit: F. Wilhelms ©PNRA/IPEV



The drill liquid Danilo and Michele brought last Thursday is ready to be used. The now roughly 9000 l of Estisol 140 should last to about 2600 m drilling depth. Credit: F. Wilhelms ©PNRA/IPEV

End of day statistics at 19:30:

- Driller's depth: 2094.13 m;
- we did 7 runs between 19h30 and 19h30. The length of these cores was: 4.54, 4.52, 2,80, 0.60, 4.53, 4.495, 4,37 (driller length, last run #726), for a total of 25.855 m;
- Logger's depth: 2093.30 m
- Current processing depth: 2013 m; daily total: 36 m; season total: 316 m.

FW, JW, MH, 02.12.2024

