

Little Dome C

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

Situation Report 45, 31. 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: -27°C, wind 3 knts



We did 5 runs between 19:30 yesterday and 15:30 today. Operations at LDC stopped generally at noon, as 12 team members left for Concordia Station to celebrate New Year's Eve. 34 m were processed in the morning and 12 boxes were loaded onto the Sfusi sled to catch a flight scheduled towards MZS 2nd January 2025. The 4 team members staying back in camp finished the drill run, that was underway at noon. The PICARRO team continued processing samples at the maximum pace and loaded the PICARRO to keep on analyzing till the next evening. The party team prepared flower costumes for the arrival at Concordia Station.



The Concordia party on the way in the PB300 cabin.
Credit: J. Westhoff ©PNRA/IPEV



The final preparation meeting in the cinema-climbing-music room at Concordia station. Credit: J. Westhoff ©PNRA/IPEV



Impressions from the core processing marathon the two days before: Packing the aliquots. Credit: G. Lawer ©PNRA/IPEV



Impressions from the core processing marathon the two days before: Scraping samples for the PICARRO measurements. Credit: G. Lawer ©PNRA/IPEV





Impressions from the core processing marathon the two days before: Preparing the DEP (dielectric profiling) scan.
Credit: G. Lawer ©PNRA/IPEV



Impressions from the core processing marathon the two days before: Horizontal cut of the core.
Credit: G. Lawer ©PNRA/IPEV

End of day statistics at 15:30

- Driller's depth: 2743.96 m;
- we did 5 runs between 19h30 yesterday and 15h30 today. The length of these cores was: 4.60, 3.93, 4.51, 4.57, 4.45 (driller length, last run #873), for a total of 22.06 m;
- Logger's depth: 2739.45 m;
- Current processing depth: 2719 m; daily total: 34 m; season total: 1130 m.

FW, JW, MH, 31.12.2024

