

Little Dome C

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

Situation Report 33, 19. 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: -32°C, wind 3 knts



We did 6 runs between 19:30 yesterday and 19:30 today. Today, processing continued with 27 m, in pace with the drilling. The drill's electronics section stopped working and we switched to the other section. After opening the electronics, we verified the DC-DC converter is broken. The PICARRO team continued processing samples at the pace of processing with the autosampler. On ApRES profile close to LDC was recorded.



A little researcher examining the long needles in front of the drillers' tent. Credit: J. Westhoff ©PNRA/IPEV



Ailsa setting up the ApRES. Credit: A. Chung ©PNRA/IPEV

End of day statistics at 19:30

- Driller's depth: 2520.78 m;
- we did 6 runs between 19h30 and 19h30. The length of these cores was: 4.53, 4.52, 4.50, 4.51, 4.26, 4.51 (driller length, last run #823), for a total of 26.83 m;
- Logger's depth: 2517.61 m
- Current processing depth: 2473 m; daily total: 27 m; season total: 884 m.

FW, JW, MH, 18.12.2024

