

Little Dome C

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

Situation Report 34, 20. 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

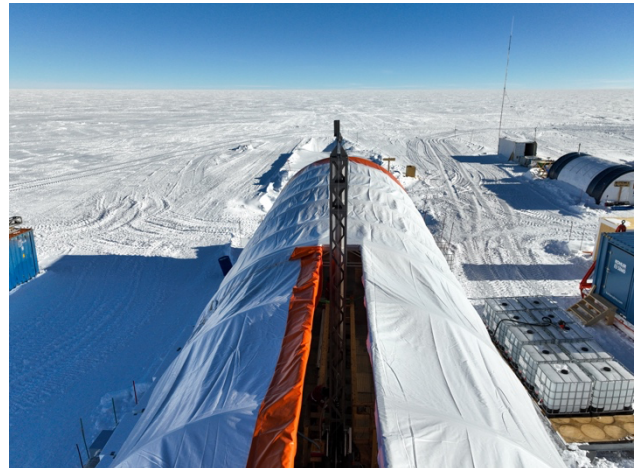
Weather at DC 5 pm: temperature: -31.5°C, wind 5 knts



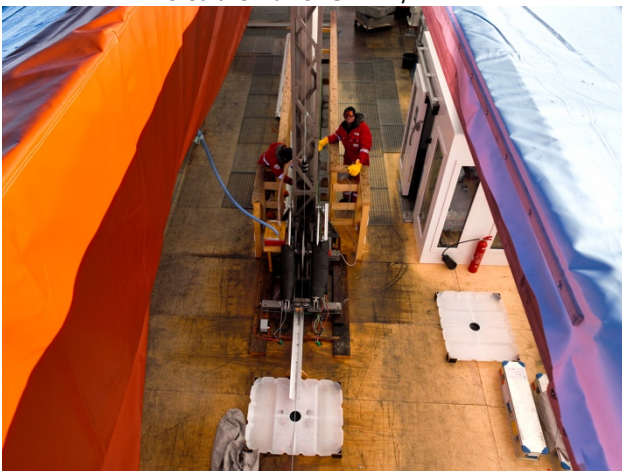
We did 6 runs between 19:30 yesterday and 19:30 today. Today, processing continued with 26 m, at the same pace as the drilling. The PICARRO team continued processing samples at the same pace of processing with the autosampler. Spare DC-DC converters (spare parts for ten drill) are ordered to the agent in New Zealand and will be shipped at the earliest opportunity. Danilo and Michele brought one "Sfusi" sledge full of empty drums and drill liquid containers to Concordia and brought back the supplies to finish the operation.



Aerial picture of the LDC camp, taken with a drone.  
Credit: G. Lawer ©PNRA/IPEV



View over the roof of the drill tent.  
Credit: G. Lawer ©PNRA/IPEV



View into the roof opening of the drill tent.  
Credit: G. Lawer ©PNRA/IPEV



Analyzing the latest data in the field.  
Credit: J. Westhoff ©PNRA/IPEV



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

- Driller's depth: 2543.38 m;
- we did 5 runs between 19h30 and 19h30. The length of these cores was: 4.51, 4.53, 4.52, 4,52, 4.52 (driller length, last run #828), for a total of 22.60 m;
- Logger's depth: 2540.21 m
- Current processing depth: 2499 m; daily total: 26 m; season total: 910 m.

FW, JW, MH, 20.12.2024

