

Little Dome C

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

Situation Report 28, 24. December 2023

Personnel @LDC:

Saverio Panichi (ENEA, Camp Leader), Olivier Alemany (CNRS), Philippe Possenti (CNRS), Matthias Hüther (AWI), Rémi Dallmayr (AWI), Gunther Lawer (AWI), Johannes Lemburg (AWI), Andrea Ceinini (ENEA), Federico Scoto (CNR), Tamara Gerber (UCPH), Iben Koldtoft (UCPH), Julien Westhoff (UCPH), James Veale (BAS), Michaela Mühl (UNIB), Fortunat Joos (UNIB), and Inès Gay (IPEV)

Weather at LDC 1 pm: sunny and nice; temp.: -15°C; wind: 0,5 m/s



Like yesterday, drilling was fairly stable today. Still using the same set-up, we made 6 runs around 4 meters long. We get a run with very low chips recovery, then we changer hollow shaft, and it get better. Anyway, this afternoon we decided to make a filtration run after lunch time.

We are still successfully processing the ice cores and have now reached 1103m depth.

The whole Beyond EPICA field team wish you a merry Christmas.

What we did today at LDC:

- We continued to drill in shifts;
- We made a filtration run;
- We continued processing ice drilled this year and processed 30m in shifts;
- We continued drilling with the IGE's dry shallow drill.





Figure 1: view from the camp, the whole field team wish you a merry christmas: photo: O. Alemany.

End of day statistics at lunch time.

Driller's depth: 1210.54 m, in between 19h30 yesterday and today lunch time we made 5 drilling runs (drillers delta depth: 4.36, 2.88, 4.19, 4.44, 4.26) for a total length of 20.13 meters (drillers delta depth);

Logger's depth: 1212.07 m

Current processing depth: 1103 m, daily total: 30 m, season total: 778m.

OA, MH, JW, and SP, 24.12.2023

