

**Little Dome C**

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

Situation Report 40, 05. January 2024

**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), Tamara Gerber (UCPH), Iben Koldtoft (UCPH), Julien Westhoff (UCPH), James Veale (BAS), Fortunat Joos (UNIB), and Inès Gay (IPEV)

**Personnel @Concordia**

Federico Scoto (CNR),

**Personnel@MZS**

Michaela Mühl (UNIB),

**Weather at LDC 1 pm:** cloudy and windy ; temp -19.5 C and wind speed : 3;8 m/s



Drilling in shift continues. We set up a new drill head and new cutters yesterday, and we are still capable to drill 4 to 4.5 meters cores.

Processing is going well and another 37m have been analyzed and made ready for shipment to Europe.

What we do today at LDC:

- Drilled in shift;
- Processed 37 ice cores;
- Finished the BAS geophysical measurements;
- Still drilling with the IGE new shallow drill (170 meters tonight).





*Figure 1: Final ApRES measurement for the season : Photo : J. Westhoff*

End of day statistics at 19h30

**Driller's depth:** 1484.80m. we made 9 runs between 19h30 yesterday and 19h30 today. The length of the cores was: 4.09, 4.51, 4.17, 4.46, 4.44, 4.10, 4.19, 4.22 and 4.24 (driller length), for a total of 38.42 meters.

**Logger's depth:** 1481.29m

**Current processing depth:** 1424m, daily total: 37m, season total: 1099m.

OA, MH, JW, and SP, 05.01.2024

