

Little Dome C

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

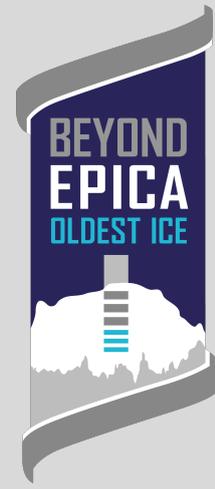
Situation Report 48, 03. January 2025

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: -25°C, wind 5 knts



We did 4 runs between 19:30 yesterday and 19:30 today. The PICARRO team continued processing samples at the maximum pace. No core was processed as we produced no new core over the holidays. We cleaned the slush pan in the inclined trench.

A few days ago, we had asked Mario Zucchelli Station (MZS) to provide raw material for dead weights for the rock drill. Lemmi had sent a drawing and MZS staff had offered to already start the manufacturing to save time. Giulano Guidarelli, Massimo Carnevale, and Gianluca Bianchi Fasani managed to finish the parts by 2nd January and sent them to Concordia station with a logistic flight. This flight also took 12 ice core boxes of the -20 °C cargo back to MZS. A huge thank you to MZS and esp. the above-named staff and the Concordia staff for the great support of our operations.

Ailsa, Lison, and Federico prepared a radar survey along the flow line towards Concordia station. We thank Riccardo Scipinotti for checking for the slight overlap of the route with the Concordia clean snow area. Miguel and Julien returned the repaired SDMO main generator from Concordia station. Thank you!



Milled ends of steel bars.

Credit: G. Bianchi Fasani ©PNRA/IPEV



Steel bars and ring adaptors.

Credit: G. Bianchi Fasani ©PNRA/IPEV





Everything packed on a palette.
Credit: G. Bianchi Fasani ©PNRA/IPEV



Giulano and Gianluca after finishing the parts.
Credit: G. Bianchi Fasani ©PNRA/IPEV



Lison as seen in the camera from the driller's operating desk while cleaning of the slush pan. Credit: G. Lawer ©PNRA/IPEV



Broken cutter in normal operation.
Credit: F. Wilhelms ©PNRA/IPEV



We packed 54 boxes on the Sfusi sled for transfer to the cold cave at Concordia. Credit: F. Wilhelms ©PNRA/IPEV

End of day statistics at 19:30

- Driller's depth: 2765.60 m;
- we did 4 runs between 19h30 yesterday and 19h30 today. The length of these cores was: 4.28, 4.53, 4.50, 4.38 (driller length, last run #878), for a total of 17.69 m;
- Logger's depth: 2761.37 m;
- Current processing depth: 2739 m; daily total: 0 m; season total: 1150 m.

FW, JW, MH, 03.01.2025

