

Little Dome C

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

Situation Report 41, 27. 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: cloudy to sunny

Weather at DC 5 pm: temperature: -24.5°C, wind 5 knts



We did 6 runs between 19:30 yesterday and 19:30 today. The PICARRO team continued processing samples at the maximum pace. Danilo and Michele went to Concordia, where Danilo held a safety training with the over-wintering team. On the way back, Danilo and Michele brought the last batch of core boxes and food from Concordia station. In the morning there was a flight from MZS to Concordia station and back. We received syringes for the PICARRO and more spare batteries for the red flash lights to handle the basal core with rock material in the trench. Thank you Gianluca for bringing the supplies from Europe resp. Christchurch! On the way back the plane took 27 -20 °C boxes which are already safely stowed in a reefer container at MZS. Thank you to the Concordia, MZS and air crews for handling the boxes and Gianluca for organizing the safe cold chain for the samples!



The first -20 °C ice core boxes stowed in a reefer container at MZS station. Credit: G. Bianchi Fasani ©PNRA/IPEV



The "Sfusi" sledge, with the last batch of core boxes moved to LDC from Concordia. Credit: F. Wilhelms ©PNRA/IPEV

End of day statistics at 19:30

- Driller's depth: 2668.01 m;
- we did 6 runs between 19h30 yesterday and 19h30 today. The length of these cores was: 4.485, 4.51, 4.45, 4.36, 4.46, 4.50 (driller length, last run #856), for a total of 26.765 m;
- Logger's depth: 2664.38 m
- Current processing depth: 2594 m; daily total: 24 m; season total: 1005 m.

FW, JW, MH, 27.12.2024

