

**Little Dome C**

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

**Situation Report 60, 15. January 2025**

**Personnel @LDC:**

Lisa Ardoin (ULB), Danilo Collino (ENEA, Camp Leader), Inès Gay (IPEV), Matthias Hüther (AWI, Chief Driller), Gunther Lawer (AWI), Johannes Lemburg (AWI), Martin Leonhardt (AWI), Michele Scalet (ENEA), Barbara Seth (UNIBE), Frank Wilhelms (AWI, PI in the field)

**Personnel @DMC:**

Marie Bouchet (CNRS), Ailsa Chung (CNRS), Manuela Krebs (AWI), Lison Soussaintjean (UNIBE), Julien Westhoff (UCPH, Chief Scientist)

**Personnel @MZS:**

Federico Scoto (CNR)

**Weather at LDC 5 pm:** sunny

**Weather at DC 5 pm:** temperature: -27.5°C, wind 4 knts



We did 4 runs between 19:30 yesterday and 19:30 today. We did 2 unsuccessful fishing runs with magnets and a strong magnet we received from Concordia station and 2 unsuccessful runs where we tried to thread-in the reamer into the core barrel. We additionally added a slide bearing to the centering brass ring of the rock drill. These measures were based on the assumption that the 800 daN (equivalent kg) pull the day before might indicate the missing piece be sticking upright in the bottom of the hole.

The science team had packed down everything and in the morning Marie Bouchet, Ailsa Chung, Manuela Krebs, Lison Soussaintjean and Julien Westhoff left for Concordia station. With this trip to Concordia station, we also moved the red shower module.



Wider conical tool with strong magnet attached to the ice core drill. Credit: F. Wilhelms ©PNRA/IPEV



We had pancakes for breakfast, for farewell of the science team that started to leave for camp closure. The smiley is Lemmi's special birthday pancake. Credit: F. Wilhelms ©PNRA/IPEV





With the science team, the red shower module is moved back to Concordia station. Credit: F. Wilhelms ©PNRA/IPEV



Rockdrill with a conical tool at the tip of the core barrel. Credit: F. Wilhelms ©PNRA/IPEV



Pancakes for breakfast. Credit: J. Westhoff ©PNRA/IPEV

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

- Driller's depth: 2804.69 m;
- we did 4 fishing runs between 19:30 yesterday and 19h30 today. The outcome of these runs was: unsuccessfully went with a wider conical tool at the end of the ice drill's core barrel with distributed magnets inside; unsuccessfully went with a strong magnet inside the same tool; unsuccessfully went two times with a conical tool mounted at the end of the core barrel;
- Logger's depth: 2799.83 m (preliminary);
- Current processing depth: 2795 m; daily total: 0 m; season total: 1185 m.

FW, JW, MH, 15.01.2025

