

## Little Dome C

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

### Situation Report 4, 20. November 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: sunny

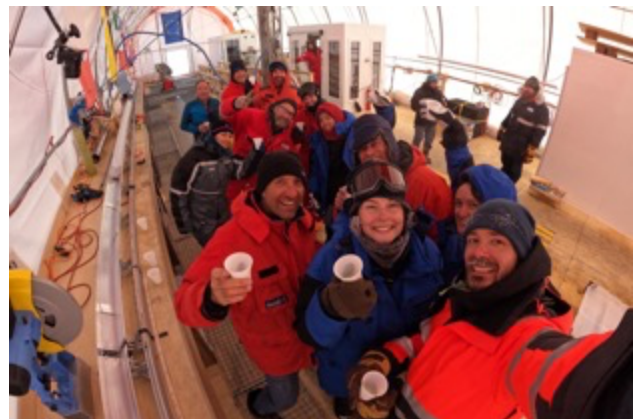
Weather at DC 5 pm: temperature: -42°C, wind 3 knts



Today, we continued preparing the skiway and refueled all the vehicles. We received a visit from Concordia by Arctic truck, which transferred our missing team member to complete the crew and brought over the chef to inspect our cooking facilities. We installed a heater in the DEP electronic box, that raised the temperature to -30°C and resulted in stable and reasonable readings. We calibrated the DEP and to test the processing line, we processed one core. We undertook three drilling runs, where the first one terminated just before four meters and the other two yielded the full length of more than 4.5 m. Danilo and Michele treat us with Italian specialties.



First common lunch of the entire group. Credit: L. Ardoin ©PNRA/IPEV



Reception of the first core in the drill trench. Credit: J. Westhoff ©PNRA/IPEV



Our last team member arriving by Arctic truck from Concordia station. Credit: D. Collino ©PNRA/IPEV



Celebration of the start of drilling and processing with a LDC-made tiramisù. Credit: J. Westhoff ©PNRA/IPEV



**End of day statistics at 20:45:**

- Driller's depth: 1848.19 m;
- we did 3 runs between 08h00 yesterday and 19h30. The length of these core was: 3.59, 4.51, 4.52 (driller length), for a total of 12.62 m;
- Logger's depth: 1847.98 m
- Current processing depth: 1696 m; daily total: 1 m; season total: 1 m.

FW, JW, MH, 20.11.2024

