

Little Dome C

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

Situation Report 12, 28. 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

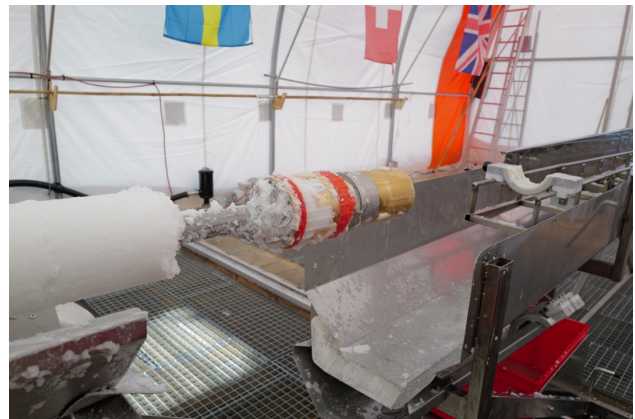
Weather at DC 5 pm: temperature: -33.5°C, wind 4 knts



Prologue and little anecdote: There were some comments/suggestions it would not be smart to start a SITREP with “Boring.” I assume the use of “Boring” to describe drilling progress refers back to Willi Dansgaard, one of the initiators of stable isotope geochemistry and the proponent of drilling into the Greenland icesheet to study paleoclimatology. The team here did not have the pleasure to be part of the Greenland Ice Core Project (GRIP, 1989–1995), but at GRIP they used “Boring” to report drilling progress in the very limited satellite telex reports (pers. comm. Porsteinn Porsteinsson). In the English edition of his — very interesting to read — auto biography *Frozen Annals*[†] Willi Dansgaard explains our work as “Boring into the past” and uses Boring as a noun, as it is listed in the Oxford English Dictionary[§]. The insinuation with the double meaning of boring as an adjective and as a noun obviously not only works in Danish, but also in English and it will be used here, in the context of these SITREPs, as a term to summarize drilling and processing progress.



Willi Dansgaard, pioneer in isotope geochemistry and paleoclimatology. Credit: Niels Bohr Institute ©NIELS BOHR INSTITUTE



Hard packed chips and damaged pump valves. Credit: F. Wilhelms ©PNRA/IPEV

Boring[§]. We did 7 runs between 19:30 and 24 hrs before and passed 2000 m. Processing in the trench continued for 36 more meters and continued on core drilled this season. The PICARRO ran a second

[†] <https://www.iceandclimate.nbi.ku.dk/publications/FrozenAnnals.pdf>

[§] Oxford English Dictionary:

1.a. Old English— transitive. To pierce, perforate, make a hole in or through; in modern use esp. to pierce by means of a rotatory movement like that of an auger or gimlet. Also with adverb through. Oxford English Dictionary, s.v. “bore (v.1), sense 1.a,” December 2023, <https://doi.org/10.1093/OED/6786930028>.

a. c1440— The action of piercing, perforating, making a bore-hole, etc.; also concrete = bore-hole *n*. Oxford English Dictionary, s.v. “boring (n.1), sense a,” July 2023, <https://doi.org/10.1093/OED/2700850788>.



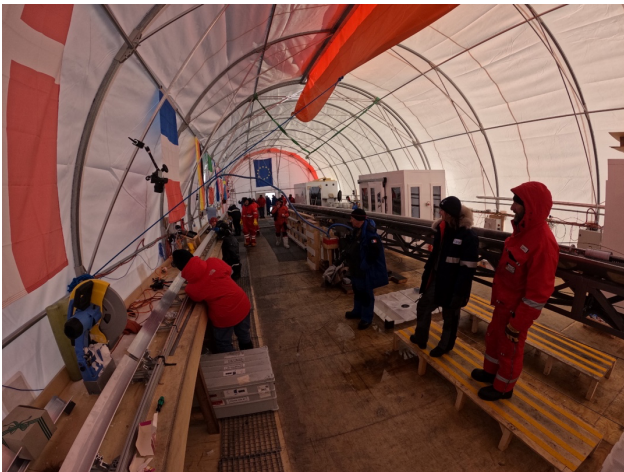
sequence, which nicely matches the EDC99 record. Lison and Manuela drilled their first ice cores. We received Eric, Sebastien, Rémi and Vito for finishing the new weather station.



Reception of bag 2000 in the drill tent. FLTR: back: J. Westhoff, G. Lawer, M. Krebs, F. Wilhelms, J. Lemburg, middle: D. Collino, L. Ardoin, L. Soussaintjean, B. Seth, front: M. Scalet, M. Bouchet, A. Chung, I. Gay, F. Scoto.
Credit: F. Scoto ©PNRA/IPEV



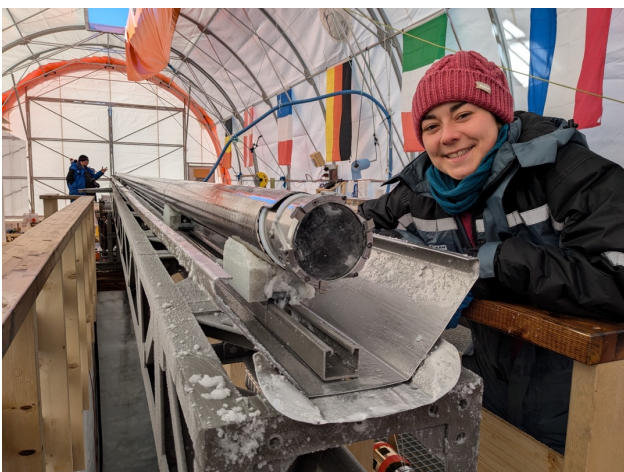
Lison drilling bag 2000. Credit: F. Wilhelms ©PNRA/IPEV



A busy day in the drill tent. Credit: J Westhoff ©PNRA/IPEV



The cave people and pancakes! Thanks Danilo!
Credit: J Westhoff ©PNRA/IPEV



Lison's first ice core. Credits: B. Seth ©PNRA/IPEV



End of day statistics at 19:30:

- Driller's depth: 2007.99 m;
- we did 7 runs between 19h30 and 19h30. The length of these cores was: 4.52, 4.515, 4.515, 4.525, 2.48, 4.52, 4.51 (driller length, last run #705), for a total of 29.585 m;
- Logger's depth: 2007.05m
- Current processing depth: 1876 m; daily total: 36 m; season total: 169 m.

FW, JW, MH, 28.11.2024

