

Little Dome C

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

Situation Report 18, 04. 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: sunny

Weather at DC 5 pm: temperature: -32°C, wind 6 knts



Boring. We did 7 runs between 19:30 yesterday and 19:30 today. Around noon we received visitors from Concordia, celebrated Saverios birthday and sent him videos and pictures. Today, processing continued with 41 m and is now two days behind drilling. This gives the ice cores two days of rest, to let the remaining drill fluid evaporate from the surface. The PICARRO is still unstable. To be able to switch the second PICARRO on, while the other one is already running, Lemmi built an adaptor to connect the pump, as the PICARRO only starts, when the surrounding conditions are according to specifications.



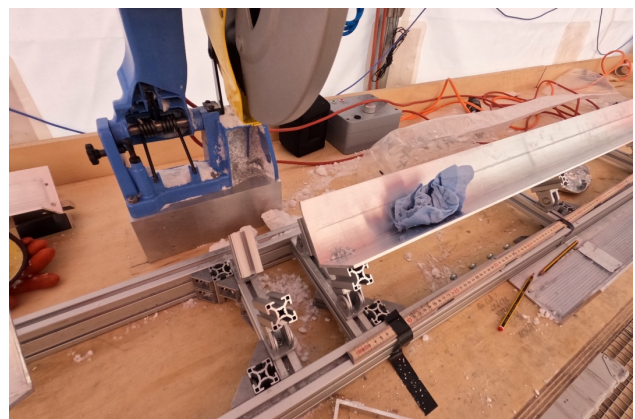
Birthday selfie to Saverio. Credit: F. Scoto ©PNRA/IPEV



Lemmi, uses a medical rectal tube, to build an adaptor to connect the pump to the PICARRO. Credit: M. Bouchet ©PNRA/IPEV



Birthday cake for Saverio. Credit: F. Scoto ©PNRA/IPEV



The logging table—For a few days, Julien, with the help of the on-shift loggers, has been working on aligning the table. Here, the 1 m-bag cut is performed, and we aim to achieve a clean cut with the vertical saw. Credit: J. Westhoff ©PNRA/IPEV



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

- Driller's depth: 2156.05 m;
- we did 7 runs between 19h30 and 19h30. The length of these cores was: 4.235, 3.735, 4.50, 4.525, 4.52, 4.525, 4.49 (driller length, last run #740), for a total of 30.53 m;
- Logger's depth: 2154.64 m
- Current processing depth: 2102 m; daily total: 41 m; season total: 405 m.

FW, JW, MH, 04.12.2024

