Little Dome C

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

Situation Report 17, 03. Dezember 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)

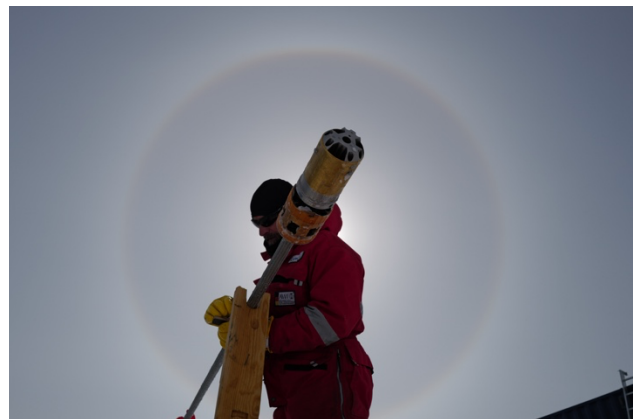**Weather at LDC 5 pm**: sunny
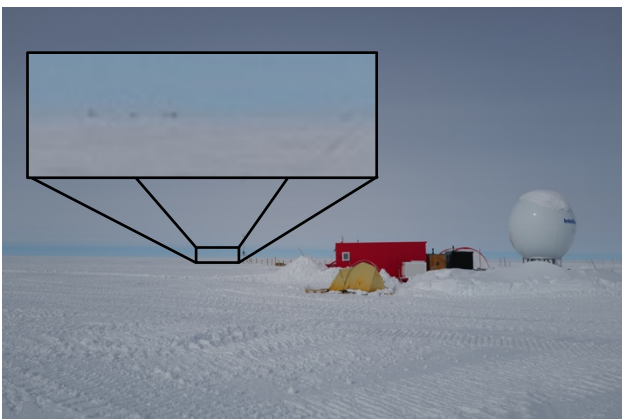**Weather at DC 5 pm**: temperature: –33°C, wind 3 knts

Boring. We did 7 runs between 19:30 yesterday and 19:30 today. We continued with the standard cutters and prepare a new drill-head with the tuned cutters to bring down inclination after checking with the Copenhagen team that a minimum inclination of about 2° would be desirable for the replicate drilling next season. For many planned scientific methods an inclination as low as possible is desired. We passed bag 2100 and had a brief reception in the drill cabin. Today, processing continued with 48 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 seems to operate again after the ITASE science module temperature stabilized.

Lison logging bag 2100. Credit: F. Wilhelms ©PNRA/IPEV

Lemmi maintaining a shaft with a halo in the background. Credit: F. Wilhelms ©PNRA/IPEV

The shower module, weather station, and in the background Australian containers. Credit: F. Wilhelms ©PNRA/IPEV

End of day statistics at 19:30:

- Driller's depth: 2125.55 m;
- we did 7 runs between 19h30 and 19h30. The length of these cores was: 4.35, 4.505, 4.32, 4.165, 4.465, 4.415, 4.515 (driller length, last run #733), for a total of 30.735 m;
- Logger's depth: 2124.08 m
- Current processing depth: 2061 m; daily total: 48 m; season total: 364 m.

FW, JW, MH, 03.12.2024