

## Little Dome C

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

## Situation Report 7, 23. 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:  $-34^{\circ}\text{C}$ , wind 4 knts



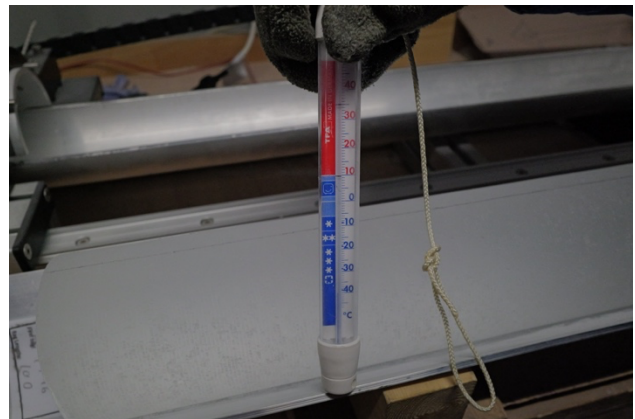
Today, we retrograded the rubbish to Concordia and transferred the PB300 with the crane for repair. We continued setting up the PICARRO but realized the autosampler software was not installed and switched to the alternative PICARRO. As we had the impression the first drill electronics had leaked in liquid, we decided to test the second electronics. The mounting took till noon as we had to overwork the plugs and the mechanical connections. We had to abort the first descent of the drill, as the electronics did not respond. After pulling the drill to the surface, it responded and we could do one full run without any problems. It could well be that the electronics were still too cold during the first descent. We are hopeful that the electronics will work normally and check this tomorrow. This remained the only run, as our Saturday night break started after. The processing trench processed thirteen meters today. Just before dinner Michele and Danilo returned from Concordia, we happily stored away the supplies and had a nice dinner and enjoyable evening together.



I tried to take a picture of Danilo and Michele leaving towards Concordia, when they passed the flag towards Concordia. This did not work as I forgot to switch back from the macro mode, which I had used to document the  $-40^{\circ}\text{C}$  in the science trench. When they passed on the way back, the battery of the camera failed. In the end, I can place a picture taken by Inès:

Picture of Frank taking picture.

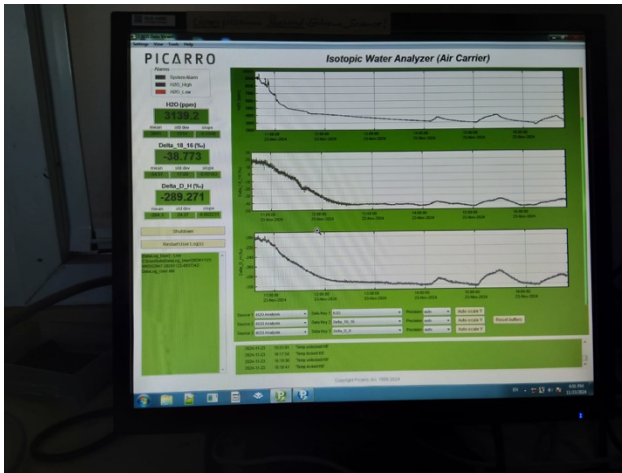
Credit: I. Gay ©PNRA/IPEV



Documentation of  $-40^{\circ}\text{C}$  in the science trench at the end of the day. We will provide evidence of the about  $-47^{\circ}\text{C}$  in the morning, when we remember to take a picture

Credit: F. Wilhelms ©PNRA/IPEV





Later in the evening, during the party, the PICARRO team is happy as the instrument is stabilizing.  
Credit: F. Scoto ©PNRA/IPEV



The pictures from the party have been censored, sorry! Just the picture of Barbara distributing her tasty crumble cake has been declassified.

Credit: F. Wilhelms ©PNRA/IPEV

### End of day statistics at 18:30:

- Driller's depth: 1888.10 m;
- we did 1 run between 08h00 and 17h00. The length of these core was: 4.525 (driller length), for a total of 4.525 m;
- Logger's depth: 1887.81 m
- Current processing depth: 1758 m; daily total: 13 m; season total: 61 m.

FW, JW, MH, 23.11.2024

