

## Little Dome C

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

### Situation Report #42, 28<sup>th</sup> December 2025

#### Personnel @LDC:

Gianluca Bianchi Fasani (ENEA, Camp Leader), Katrin Ederer (AWI), Matthias Hüther (AWI, Chief Driller), Iben Koldtoft (UCPH), Marion Lahuec (IPEV), Gunther Lawer (AWI), Johannes Lemburg (AWI), Philippe Possenti (CNRS), Barbara Seth (UNIBE, PI in the field), Henrique Traeger (UNIBE), Mohammad Vafadarmianvelayat (AWI), Sergio Zannini (ENEA)

#### Personnel @DC:

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**Weather at LDC:** cloudy and windy in the morning, sunny and less wind during the day, cold

**Meteo at DC 6:20 pm:** T = -21.3 °C, Wind speed = 2.1 kt, Windchill T = -25 °C, Humidity = 71%



In the drill tent, we carried out the same operation as the two days before: milling the wall of the bore hole between 2030 and 2040 m depth with the 2.5 m ice core drill using gravity. As milling is done at the same speed as normal ice core drilling, namely 0.1 to 0.3 cm/s, it takes some days to mill enough ice down the wall to produce a ledge.

Iben and Henrique started to get all the equipment out and sorted for the GPR radar (500 MHz antenna). The purpose is to get a radar profile of a line from Little Dome C to Concordia. We hope to collect data of the top 30 m of the snow pack. They will continue working on the setup in the coming days.

For dinner we were treated with two desserts: Mohammad made his delicious coffee cake again and Barbara tried to make a mousse au chocolat. After dinner, the weather was ideal for going for a walk or on a sky tour.



Gunther and Lemmi starting a sky round. Photo by B. Seth





Two desserts on one evening, what a treat! Photos by B. Seth

CB, GBF, BS & MH; LDC, 28.12.2025

