

## Little Dome C

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

### Situation Report #43, 29<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, cold

**Meteo at DC 6:15 pm:** T = -18.2 °C, Wind speed = 11.4 kt, Windchill T = -28 °C, Humidity = 79%



In the morning, just after we started going down with the drill, the generator (SDMO1) had a black out for a few seconds. At that time, Gianluca and Sergio were busy removing the fuel pump from the big fuel tank 1 and installing it on the fuel tank 2. When they got the alarm, they reacted immediately and checked the SDMO. They could not find the error quickly and decided to switch to the other generator (SDMO2). However, here the battery for the starting device was not fully charged because some connection was loose. After a while, this was managed and they could switch to SDMO2. Afterwards, they maintained SDMO1. Hence, it was a busy morning for our logistic team.

In the drill tent, we could start lowering the drill into the hole with a little delay to continue milling the wall of the bore hole between 2030 and 2040 m depth.

Henrique continue working on the setup for the GPR radar today. All the equipment is now assembled on one of the blue sledges.





Sergio and Gianluca were interrupted in their routine switching the fuel pump between the big fuel tanks when the generator sent out an alarm. Photos by B. Seth





Henrique assembling the radar on a blue sledge. Photos by I. Koldtoft and B. Seth



A beautiful halo over Little Dome C camp in the evening. Photo by I. Koldtoft

CB, GBF, BS & MH; LDC, 29.12.2025

