

Little Dome C

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

Situation Report 9, 5th December 2023

Personnel @LDC:

Saverio Panichi (ENEA, Camp Leader), Olivier Alemany (CNRS), Philippe Possenti (CNRS), Matthias Hüther (AWI), Rémi Dallmayr (AWI), Gunther Lawer (AWI), Johannes Lemburg (AWI), Andrea Ceinini (ENEA), Federico Scoto (CNR), Tamara Gerber (UCPH), Iben Koldtoft (UCPH), Julien Westhoff (UCPH), James Veale (BAS), Michaela Mühl (UNIB), Fortunat Joos (UNIB), and Inès Gay (IPEV)

Weather at LDC 5 pm: sunny and windy

Meteo at DC 5 pm: temperature : -30°C, wind : 15 knts



Today we began processing the core drilled last season. We started with training the new people in the morning and then processed ice cores in shifts in the afternoon, while further fine tuning the processing line.

LDC became an active airfield today by a visit of the Basler from MZS. The plane brought us the long anticipated skidoo and left for Concordia after Gianluca got his camp tour.

What we did today at LDC:

- We trained new people on the core processing line;
- We started processing the ice from last season;
- We finished setting up ventilation in the “pig” and in the drill cabin;
- We set up the extraction table extension;
- We prepared a drill head and a hollow shaft;
- We plugged all drill computers needed to drive the drill.



Figure 2: The Basler landing at LDC: photo F. Scoto



Figure 1: the group photo in the drill tent: photo F. Scoto (Leica Q3; SUMMILUX 1:1.7/28 ASPH; 29mm; f 4; 1/160s ; ISO-100)





Figure 3: processing line in operation: photo O. Alemany

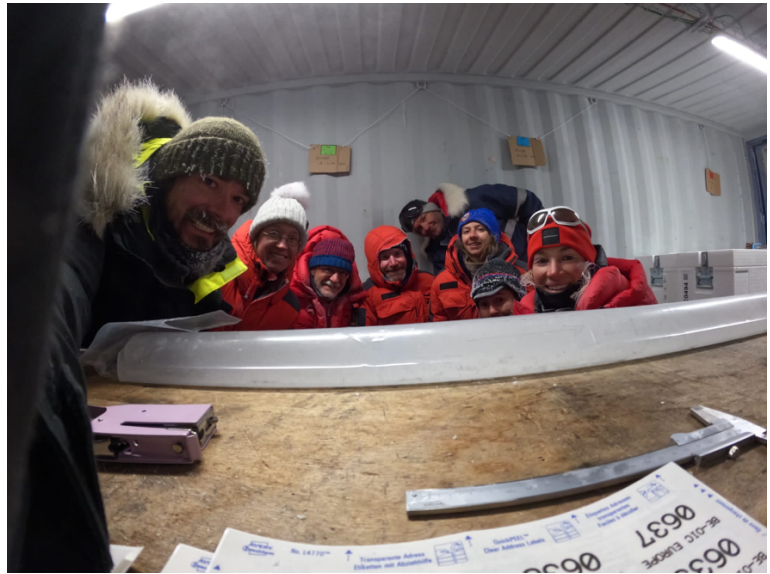


Figure 4: the processing team after the first ice core processed: photo J. Westhoff

End of day statistics:

Driller's depth: NA

Logger's depth: NA

Processed depth: 617 m; daily total 9 m

OA, MH, JW, and SP, 05.12.2023

