

Little Dome C

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

Situation Report 35, 31. 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), Julien Westhoff (UCPH), James Veale (BAS), Michaela Mühl (UNIB), Fortunat Joos (UNIB), and Inès Gay (IPEV)

Personnel @Concordia

Iben Koldtoft (UCPH),

Weather at LDC 1 pm: sunny ; temp -18 and wind speed : 3.5 m/s



we continued shift drilling until 1pm today, to allow those who wished to do so to celebrate New Year's Eve at Concordia. We're still drilling core samples of over 4 metres.

The second flight of 33 ice core boxes (at -20°C) to MZS has been organized today. Iben supervised loading.

We continued to process the ice cores and finished 26 cores.

What we do today at LDC:

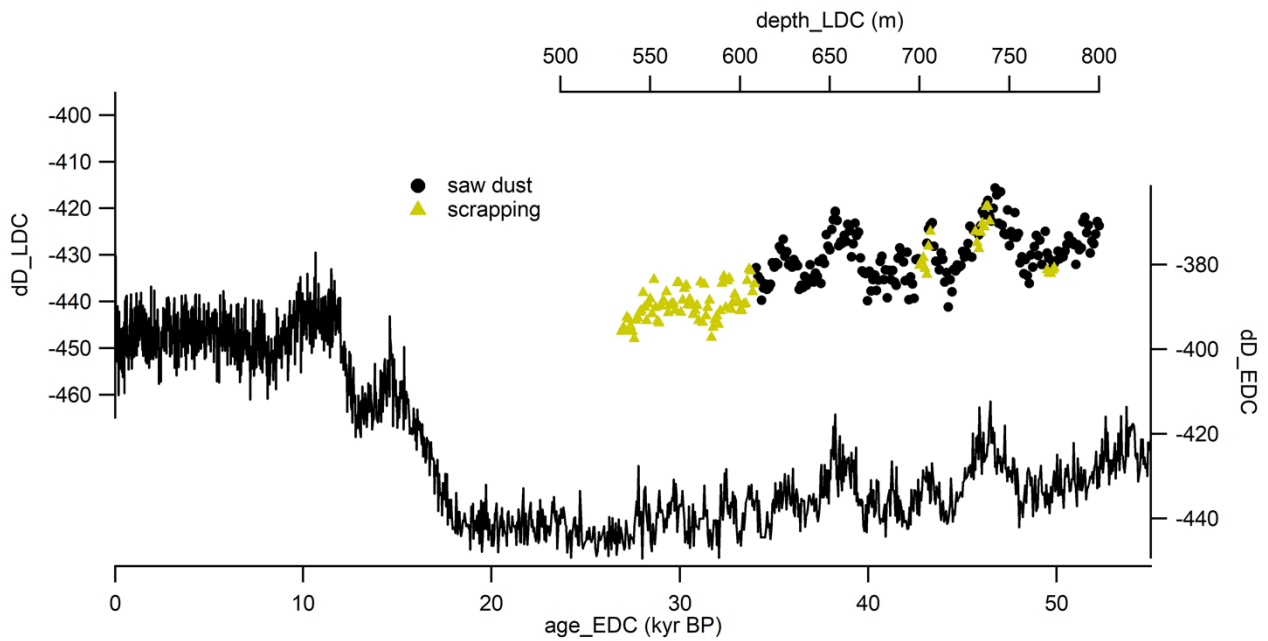
- Drilled in shift;
- Processed 26 ice cores;
- Did some BAS geophysical measurements on the way to Concordia;





Figure 1: Loading the second flight of A cut to MZS MZS: photo : I. Koldthof





Stable water isotopes comparing the EPICA and the Beyond EPICA core.: from A. Landais

End of day statistics at 13h

Driller's depth: 1359.97 m. we made 5 runs between 19h30 yesterday and 13h today. The length of the cores was: 4.07, 4.42, 4.33, 4.39, and 4.35 (driller length), for a total of 21.56 meters.

Logger's depth: 1361.31 m

Current processing depth: 1336 m, daily total: 26 m, season total: 1010 m.

OA, MH, JW, and SP, 31.12.2023

