

Little Dome C

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

Situation Report 47, 12. January 2024

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) and Inès Gay (IPEV)

Personnel @Concordia

Fortunat Joos (UNIB), Michaela Mühl (UNIB)

Weather at LDC 1 pm: sunny; temp -17.1° C and wind speed: 3.5 m/s



After the problems of the last two days, we resumed drilling in a slightly more stable mode. To minimize the risks, we slightly reduced the winching speed. We have had some issues with the “PIG” that we are trying to fix.

The first LDC personnel have started to leave the camp, so that we can gradually close it down.

We also started to clean and pack some stuff.

Processing is going well and another 16m have been analyzed and made ready for shipment to Europe.

What we did today at LDC:

- Drilling in shift;
- Processed 16 ice cores;
- Started cleaning and packing;
- Said goodbye to our friends leaving LDC.



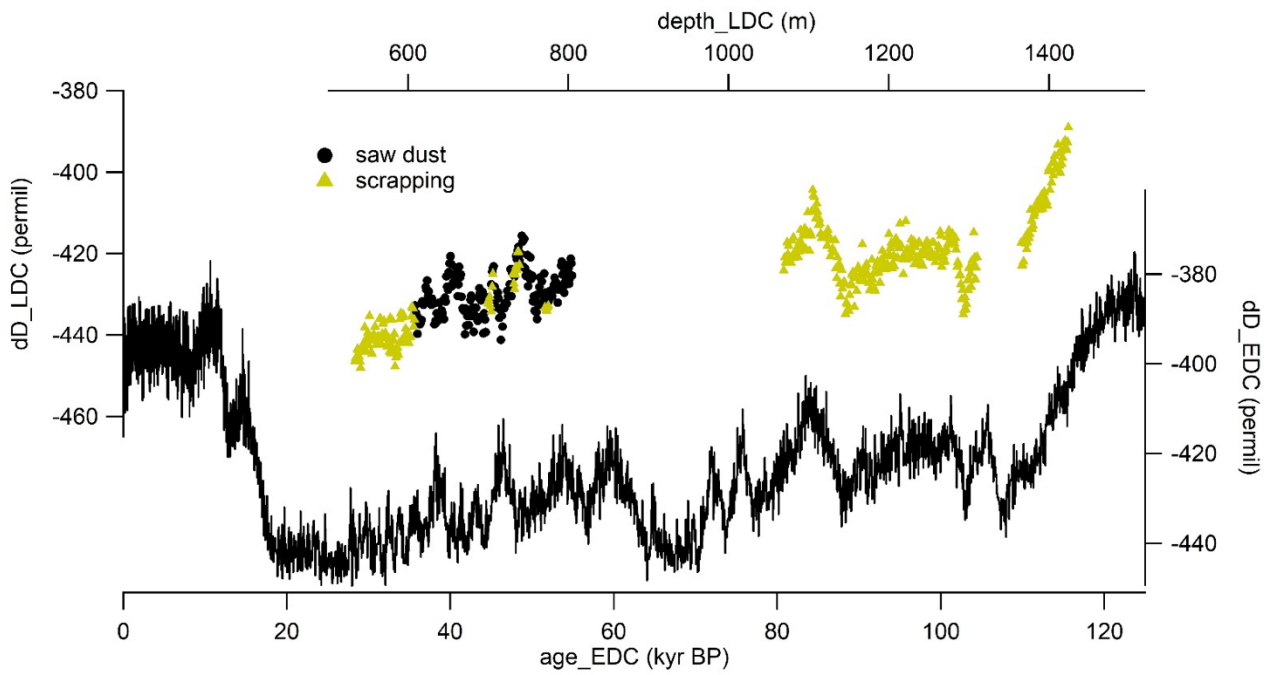


Figure 1: updated water isotope measurements : A. Landais



Started packing the remaining ice core shelves : photo : F. Scoto



End of day statistics at 19h30

Driller's depth: 1663.49 m. we made 7 drilling runs between yesterday 19h30 and 19h30 today. The length of the cores was: 4.48, 4.40, 4.48, 4.30, 4.51, 4.5 and 4.49 (driller length), for a total of 31.26 meters.

Logger's depth: 1659.02 m

Current processing depth: 1627m; daily total: 16m, season total: 1303m.

OA, MH, JW, and SP, 12.01.2024

