

Little Dome C

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

Situation Report 10, 6. 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: cloudy and windy

Meteo at DC 5 pm: no data today



Today we continued processing the core drilled last year and made our first run at drilling. Unfortunately, we encountered several problems: a loss of communication with the core drill motor, a problem with the winch on the way up and a problem with the tower tilting. We've got a few ideas on how to fix all these problems, and we'll be working on them tomorrow. These problems were expected for a first run.

What we did today at LDC:

- We continue processing the core in shift and processed 35m of ice from last year;
- We removed the empty ice core boxes from the sledge, sorted them, and stored them in an empty container;
- We attempted the first drill run of the season, with some problem, which should be solved soon. Drill is at surface.



Figure 2: Storing the empty core boxes in a container: photo F. Scoto



Figure 1: the drill back at surface: photo : F; Scoto



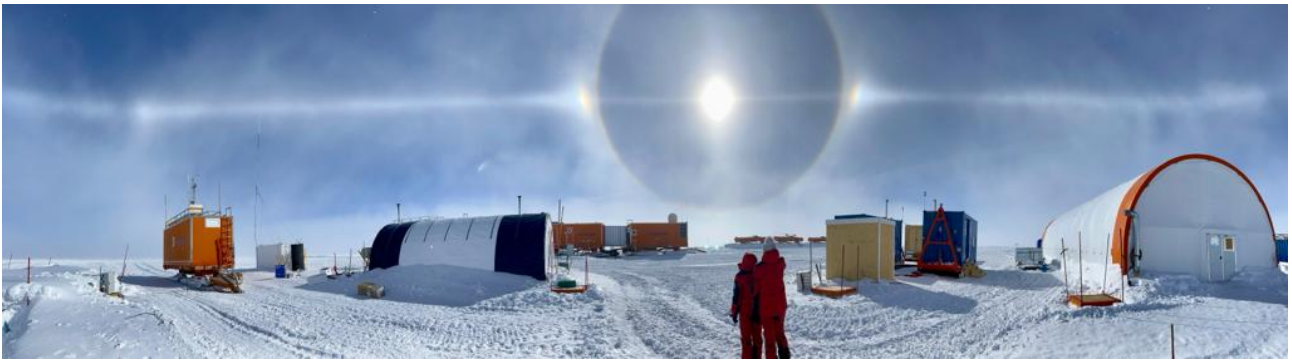


Figure 3: a nice parhelion : Phtoto F. Scoto

End of day statistics:

Driller's depth: NA

Logger's depth: NA

Processed depth: 652 m; daily total 35 m

OA, MH, JW, and SP, 06.12.2023

