



## **Glaciological implication of the comparison of the different dating approaches of a Berkner ice core**

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In the frame of a collaborative program between France and UK, a 948 m ice core has been retrieved from the summit of Berkner Island (Antarctica). This drilling has two main objectives :

- Document the climate evolution of the area near the Weddell sea since the last glaciation including the last glacial maximum.
- Study the ice sheet evolution over this time period.

We present here the first results obtained on the CH<sub>4</sub> and CO<sub>2</sub> concentration of the air trapped in the ice, used as a dating tool by comparison with other cores, in particular EPICA DC and DML. The resulting chronology is then compared with a simple glaciological timescale obtained with the assumption that the ice flow has not drastically change since the last glacial maximum. Differences between the two chronologies are finally discussed in term of ice sheet evolution.