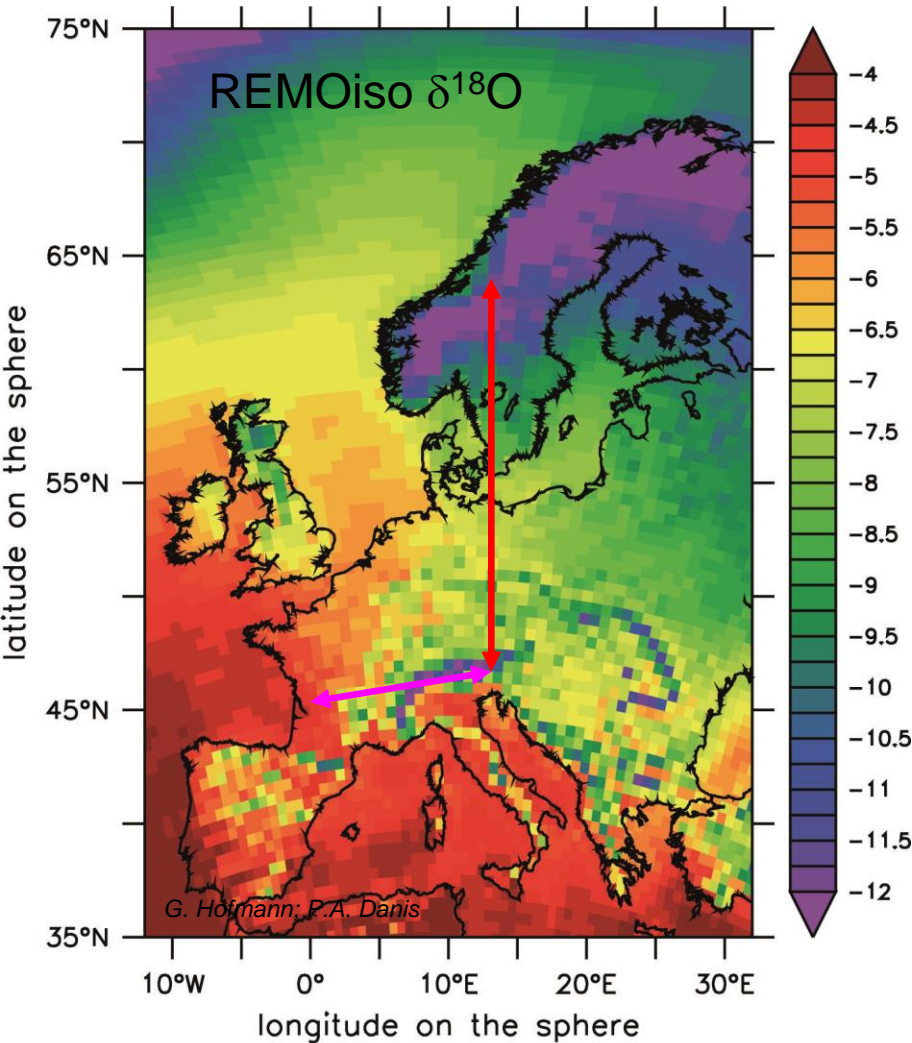


# SCANISO project - European isotope-climate reconstruction for the last 2000 years

- Multiproxy reconstruction : lakes, speleothems, trees → mostly  $\delta^{18}\text{O}$
- S-N gradient accros Europe



ISOMEX-PALEOMEX  
SCANISO

## Participants

Coordinator : Dan Hammarlund, **Lund University**, Department of Geology,  
Quaternary Sciences, Lund, Sweden

**LSCE** coordinator : Dominique Genty, Glaccios team with Uli von Grafenstein and Valérie Daux

Mains participants :

- Karin Holmgren, **Stockholm University**, Department of Physical Geography and Quaternary Geology (speleothems)
- Hannah Sundqvist, Stockholm University (speleothems)
- Valérie Daux, LSCE (dendro)
- Ulrich von Grafenstein (Lake)
- Emmanuel Chapron, **Orléans Univ.**, seismic pre-coring surveys (Lake)
- Fabien Arnaud and Pierre Sabatier, Edytem, **Chambéry Univ.**, lake sediments, XRF, sedimentology, radionuclids
- Monique Pierre, Michel Stievenard, LSCE (dendro)
- Edouard Regnier (lake, speleothems)
- Dominique Blamart (isotopes)
- Dominique Genty (speleothems)
- Edwige Pons (U-Th)
- Mathieu Daeron (D47)
- G. Hoffman/ Ch. Sturm (REMOiso)

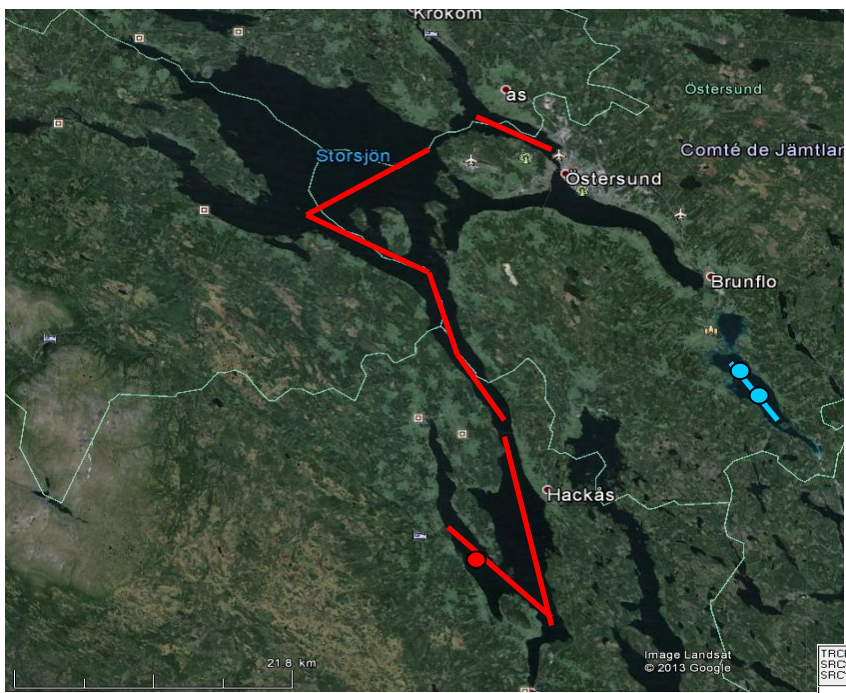
→ PhD connected with SCANISO : Jiaoyang Ruan, first year, LSCE (Holocene, Europe)

→ First meeting at the LSCE on the 12th and 13th February 2013

With DH, KH, HS, VD, ER, MP, MD, DB, DG, EP

→ In December 2013 seismic prospection was carried out in two lakes in the Östersund region (Storsjön and Locknesjön)

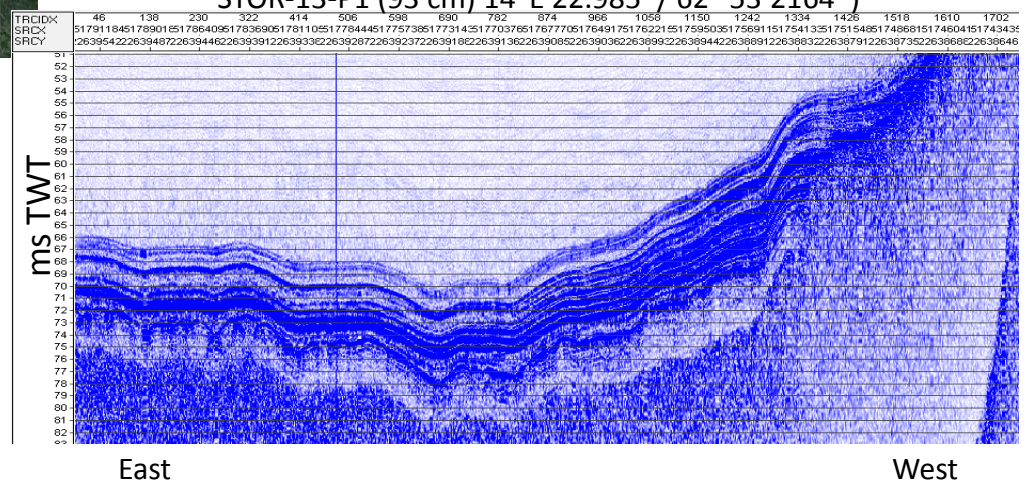
→ Four short gravity cores in order to better define possible coring sites



seismic survey  
12/11 – 22/11 2013

● ●  
short cores at  
planned coring sites

STOR –B site, SW basin, prodelta-bottomsets  
(bathy: 49.3m; sediment sequence 7.5 m (U3 :3.5m)  
STOR-13-P1 (93 cm) 14°E 22.985' / 62° 53'2164'



East

West

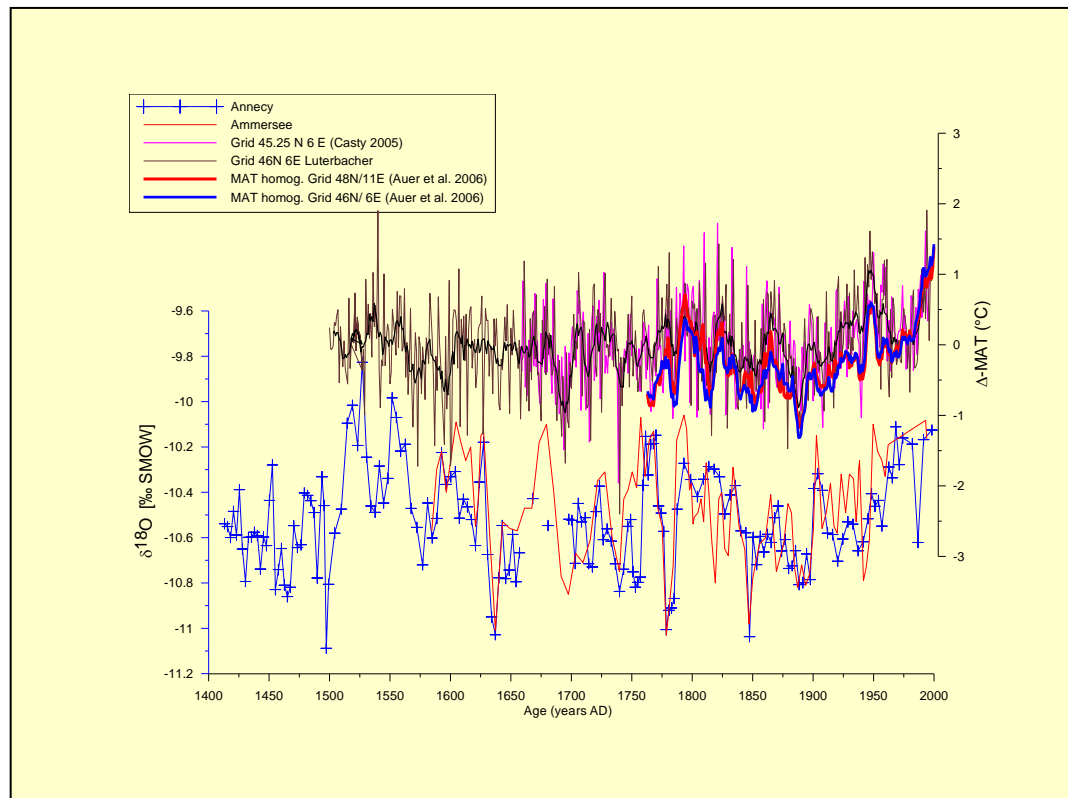
**2014 Progress:**

- March-April 2014 10 days of coring from the frozen lake surface
- June 2014: opening and non-destructive core analyses in Lund, Sweden
- September 2014: ostracod taxonomy in Gif, subsampling for ostracods in Lund
- October to December 2014: Ostracod preparation and selection for isotope analyses



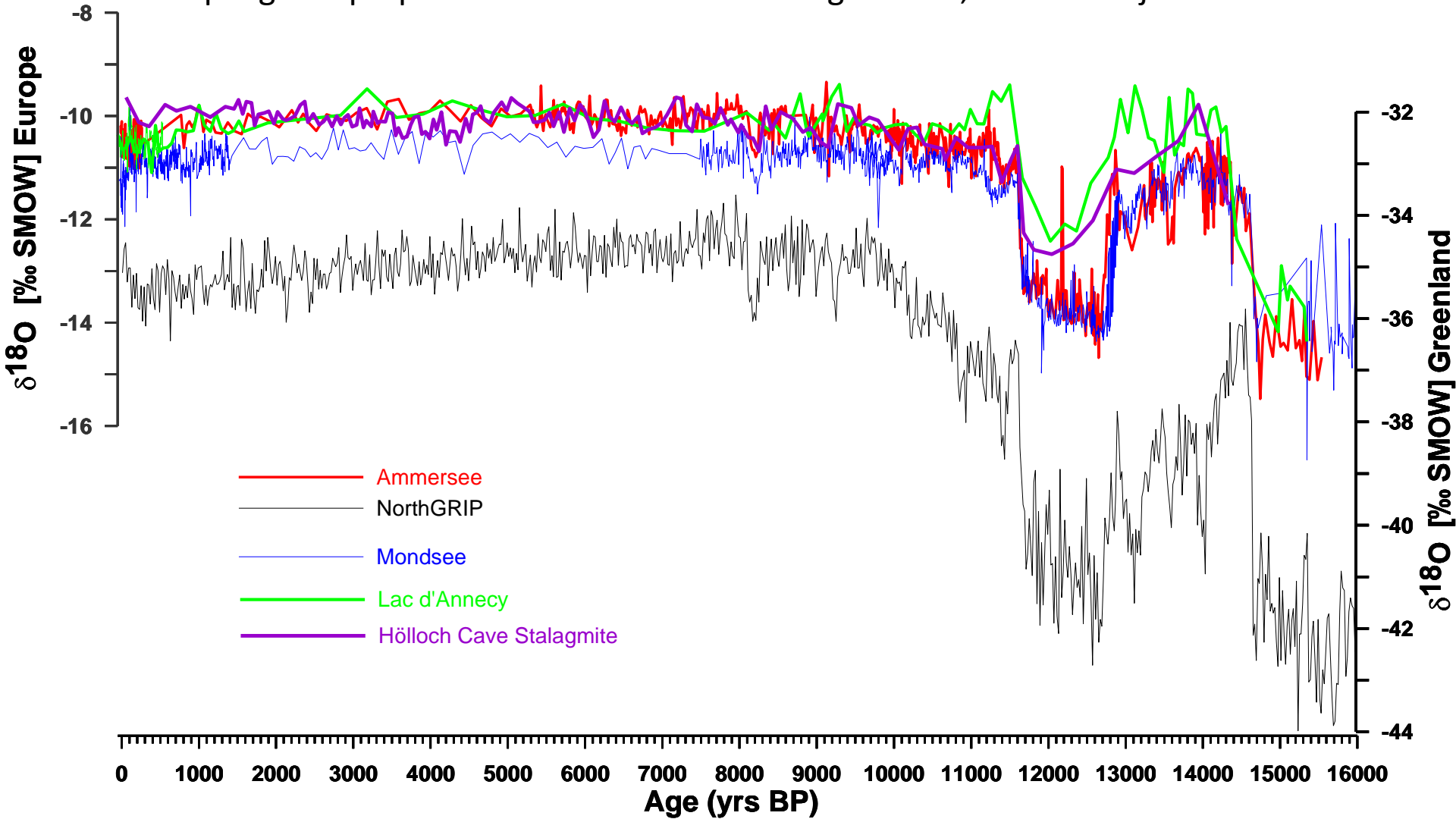
**2014 planned but retarded:**

- consolidation and prolongation of ultra-highly resolved isotope records from Ammersee (in collaboration with GFZ-Potsdam), Lac d'Annecy (see below) and Mondsee
- subsampling and preparation of the cores from Lago d'Iseo, lake Bohinj and Lake Bled



**2014 planned but retarded:**

- consolidation and prolongation of ultra-highly resolved isotope records from Ammersee (in collaboration with GFZ-Potsdam), Lac d'Annecy (see below) and Mondsee
- subsampling and preparation of the cores from Lago d'Iseo, lake Bohinj and Lake Bled





# SCANISO project - European isotope-climate reconstruction for the last 2000 years - Lakes



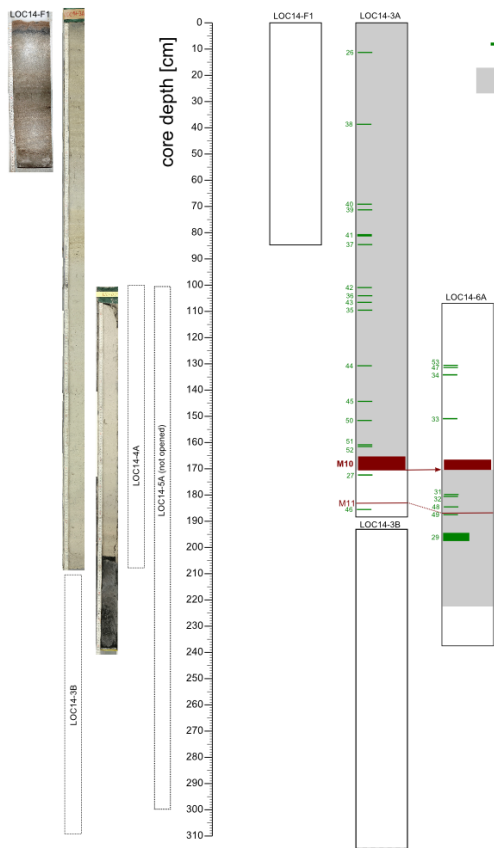


# SCANISO project - European isotope-climate reconstruction for the last 2000 years - Lakes

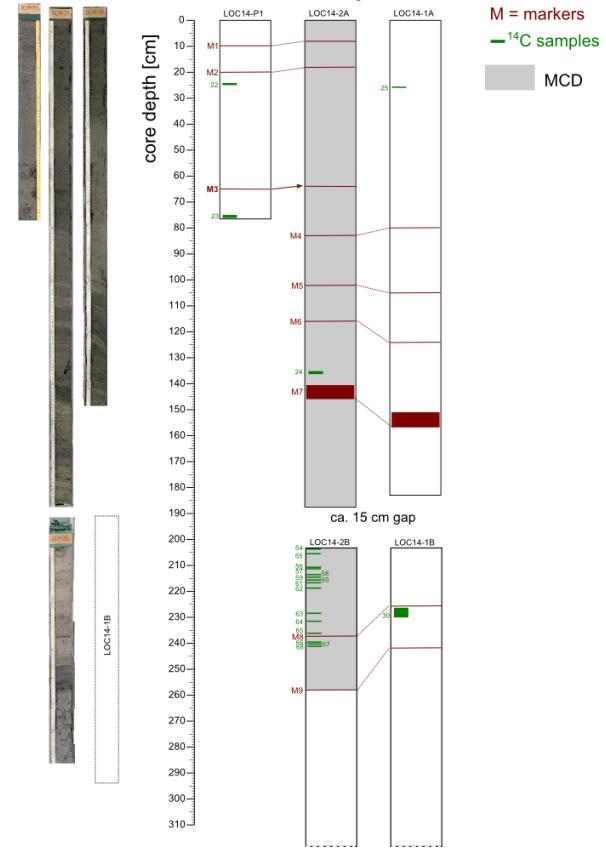




**LOC14 shallow**



**LOC14 deep**



M = markers  
 — <sup>14</sup>C samples  
 MCD

