

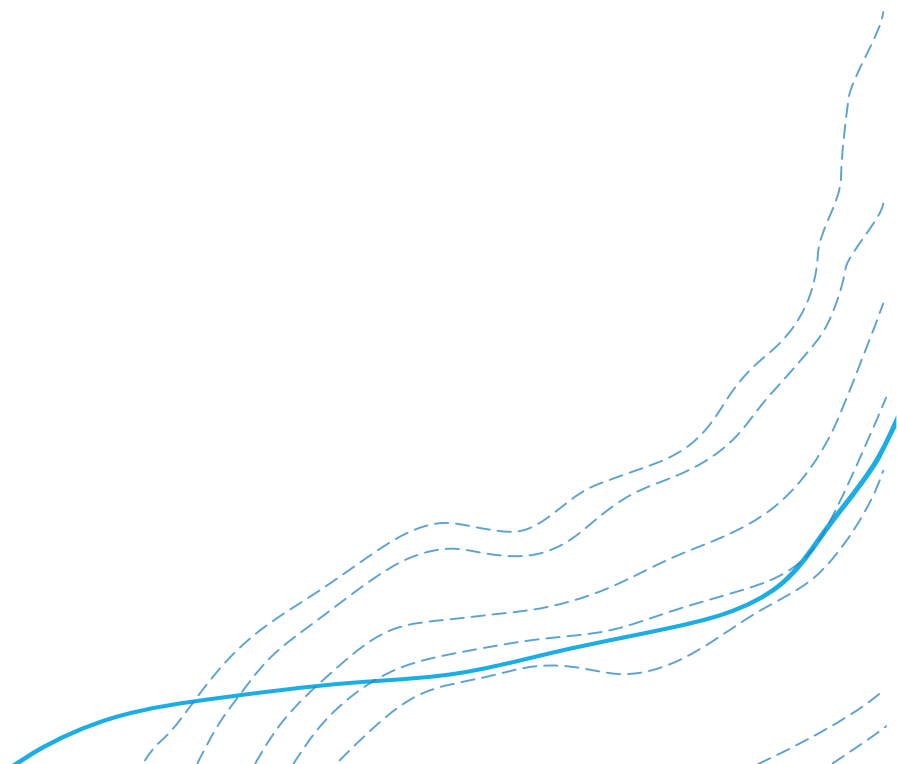
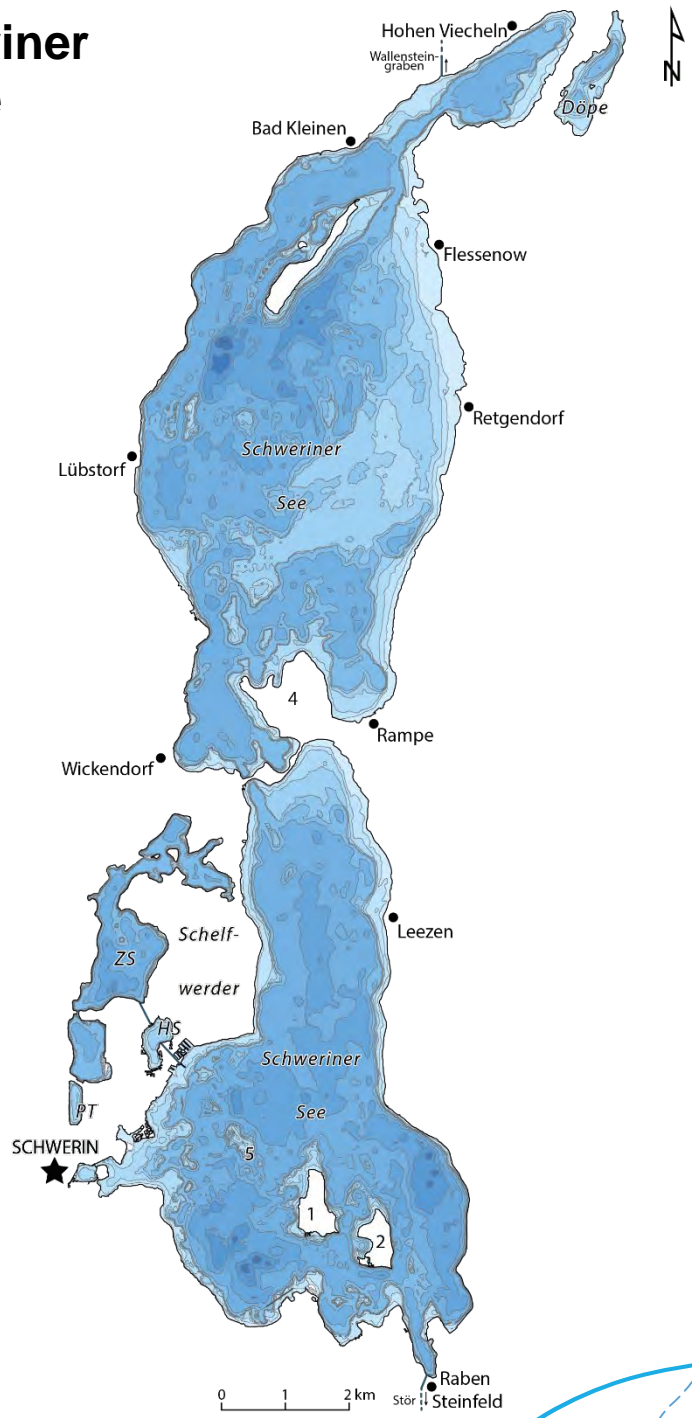
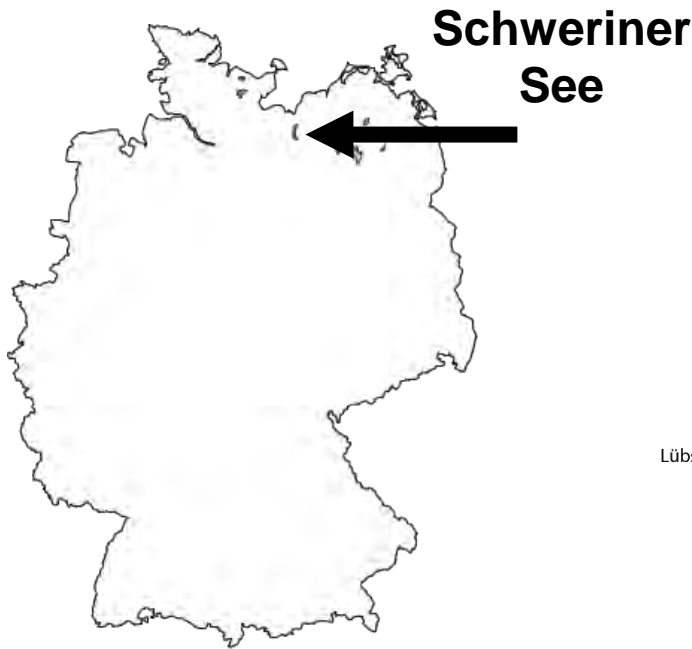
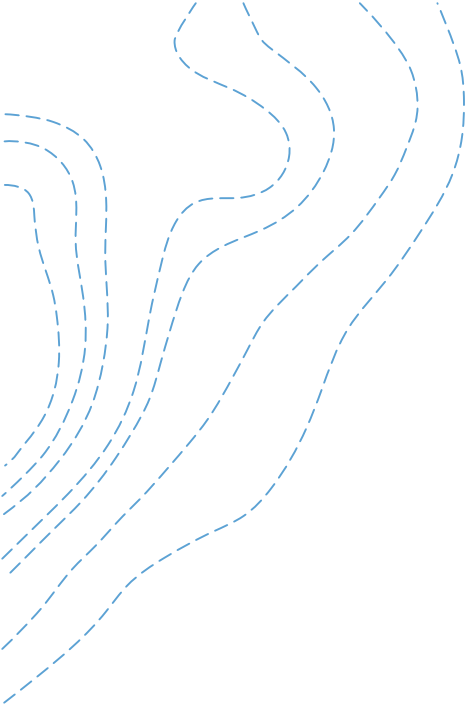


Mecklenburg-Vorpommern
Ministerium für Klimaschutz,
Landwirtschaft, ländliche
Räume und Umwelt

Die Entwicklungsgeschichte des Schweriner Sees von der Eiszeit bis heute

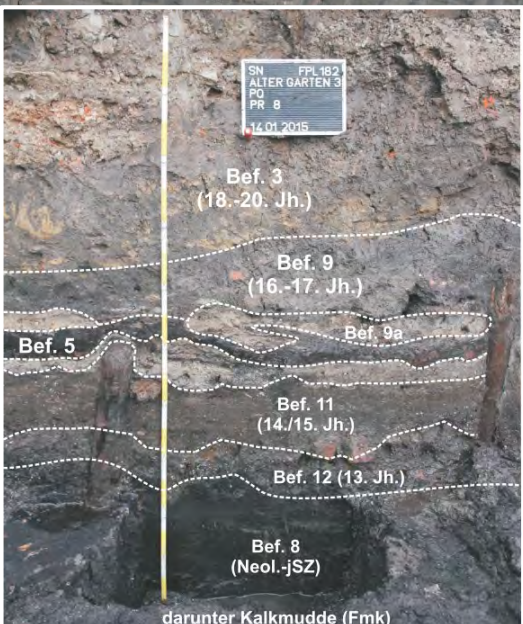
Torsten Haberzettl, Marie-Luise Adolph, Mirko Dreßler, Reinhard Lampe,
Araksya Nersisyan, Veerle Troelstra, Claudia Wrozyna, **Sebastian Lorenz**







2011 – Begleitung der Ausgrabungen vor Bau der Marienplatz-Galerie, Schwemmfächer und Kolluvien in Bachniederung



2015 – Begleitung der Bauarbeiten am Staatlichen Museum, Stadterweiterung in den See



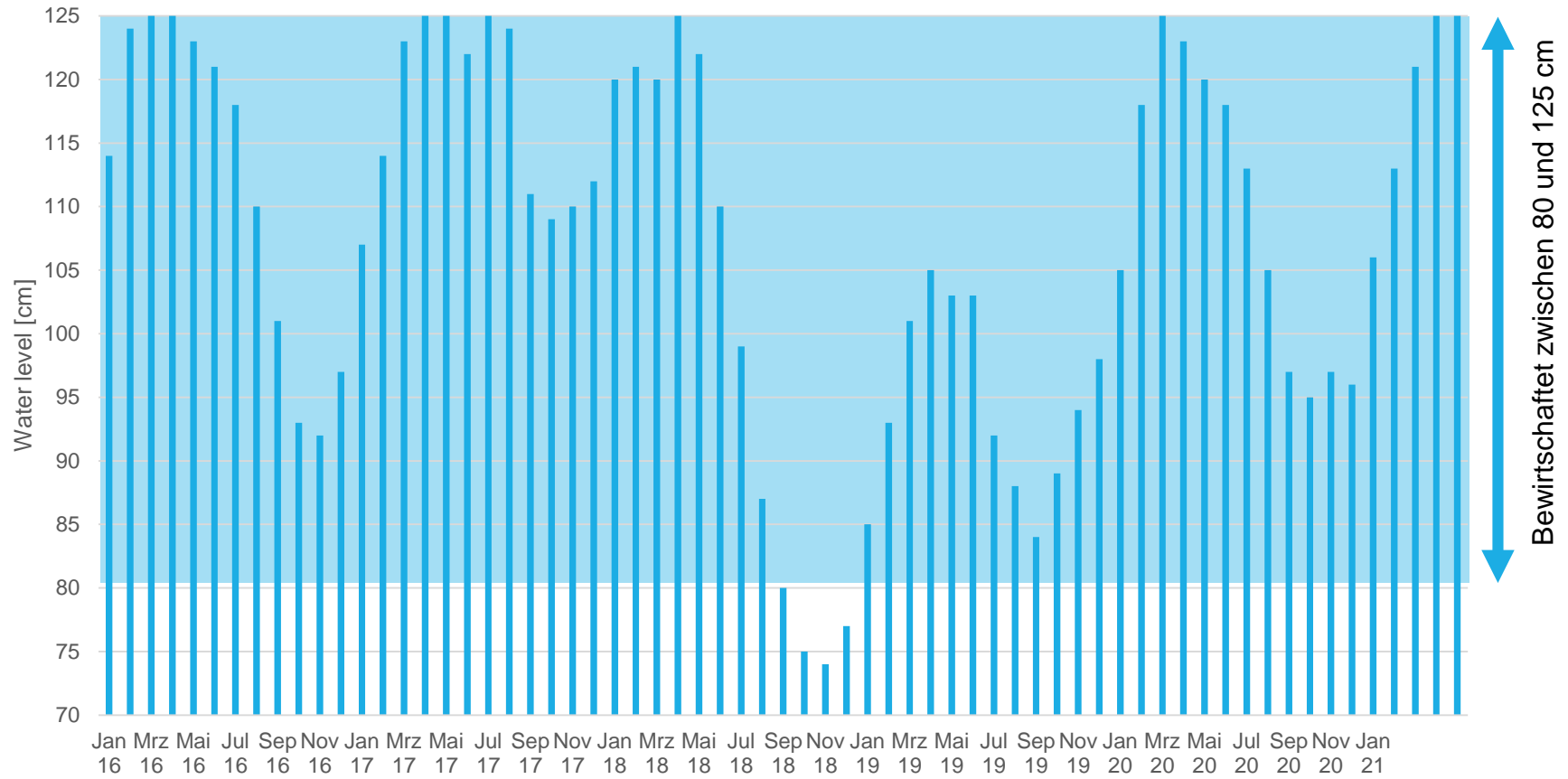
2014-2015 – Begleitung der Bauarbeiten im Schlossinnenhof, Insel- und Burgwallgeschichte



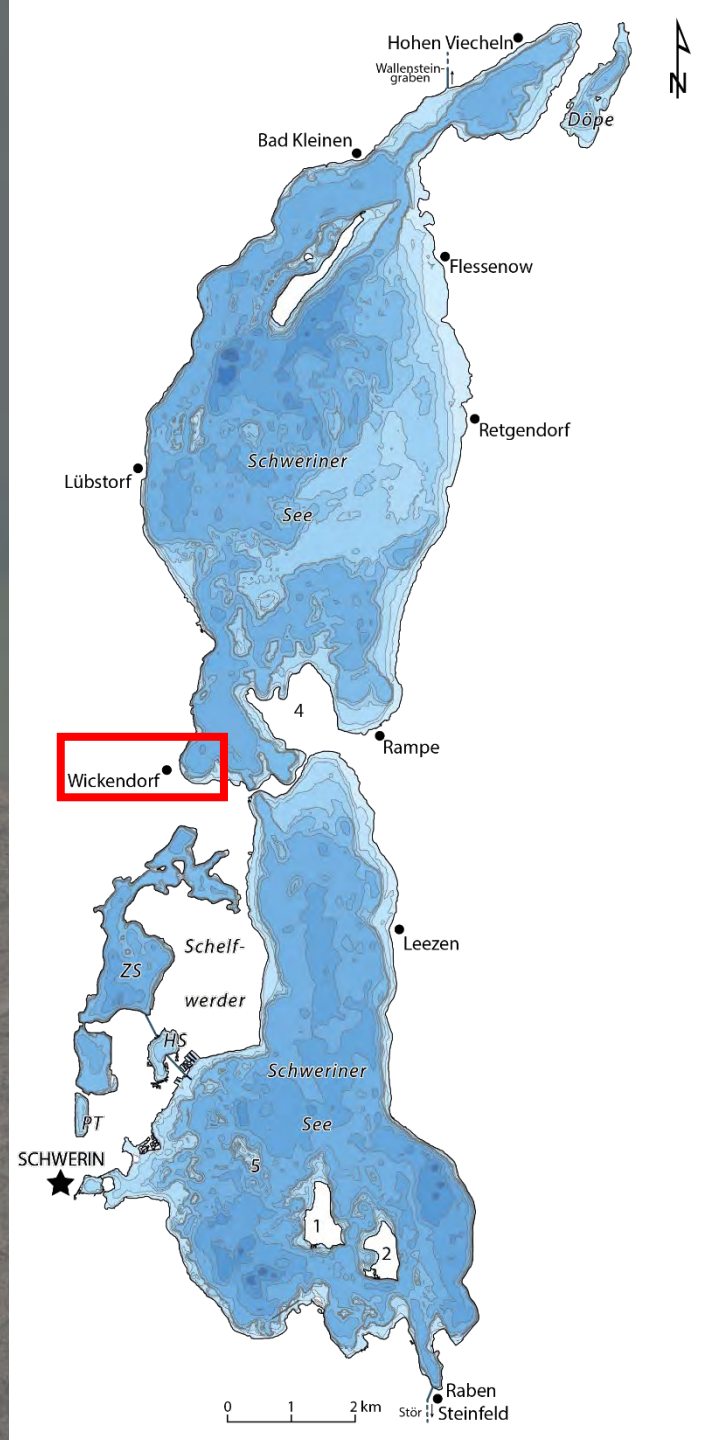
2016 – Bohrungen Marstallhalbinsel und Sonarkartierung Burgsee und Schlossbucht

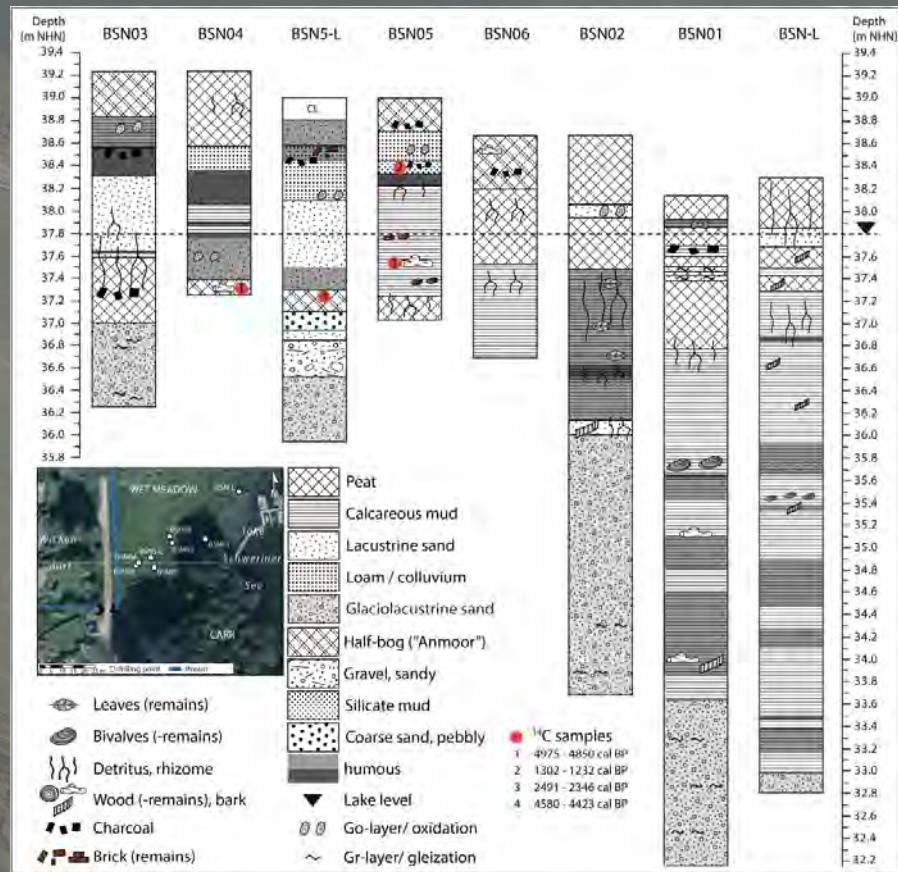


Mittlerer Wasserstand des Schweriner See (Jan 2016 and Mai 2021)

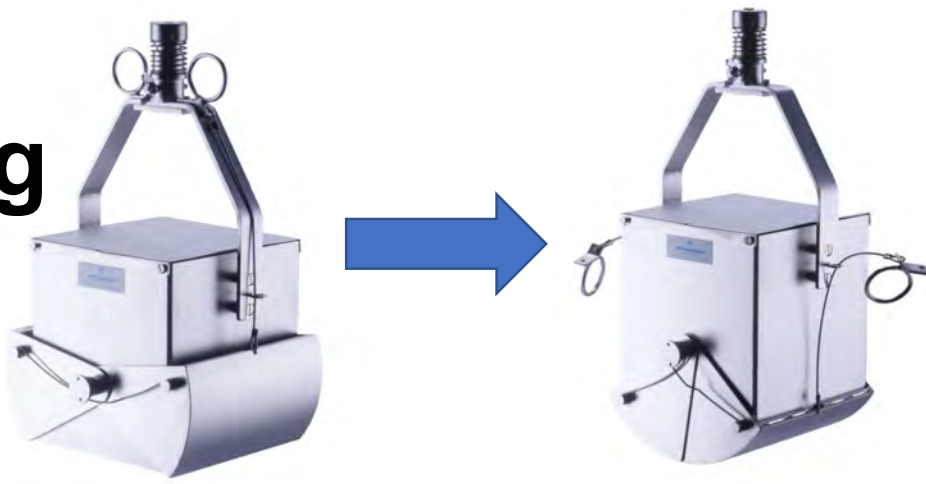


Datenquelle: Gewässerkurzberichte der StALU, Visualisierung: M.-L. Adolph



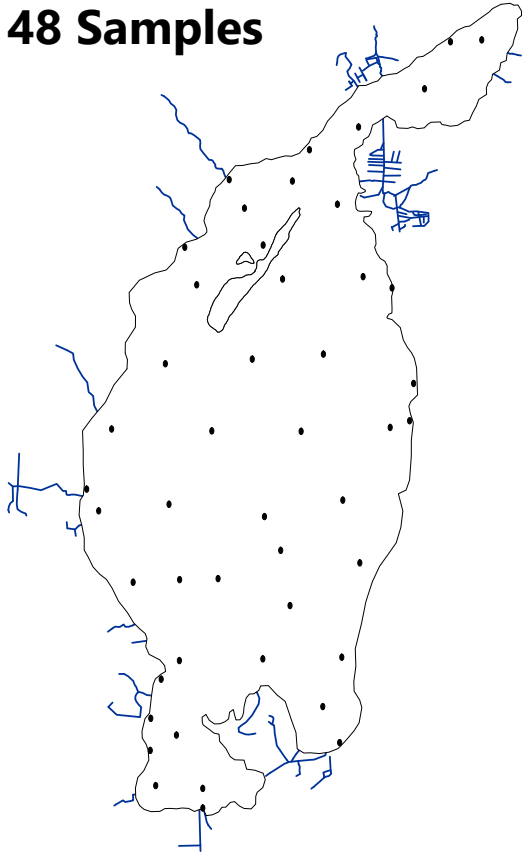


Grab sampling



Recent Environmental Conditions

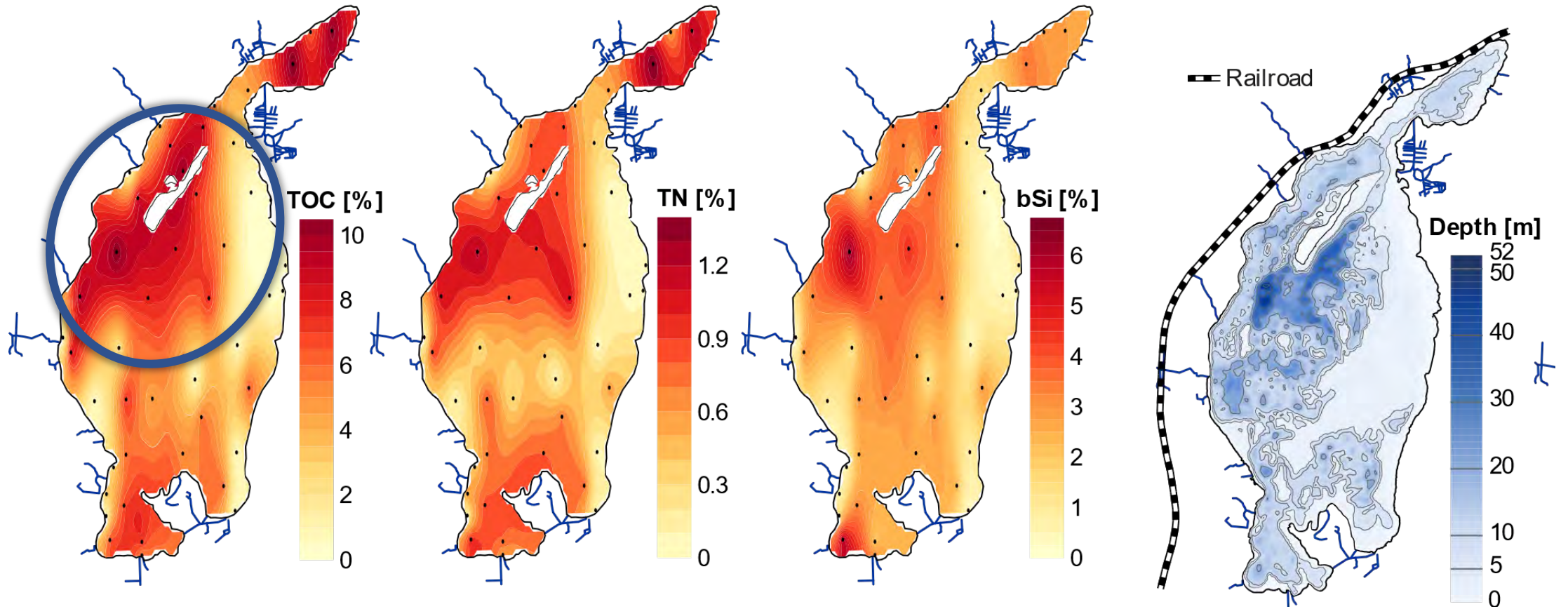
48 Samples



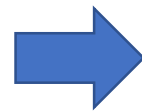




Bioproductivity

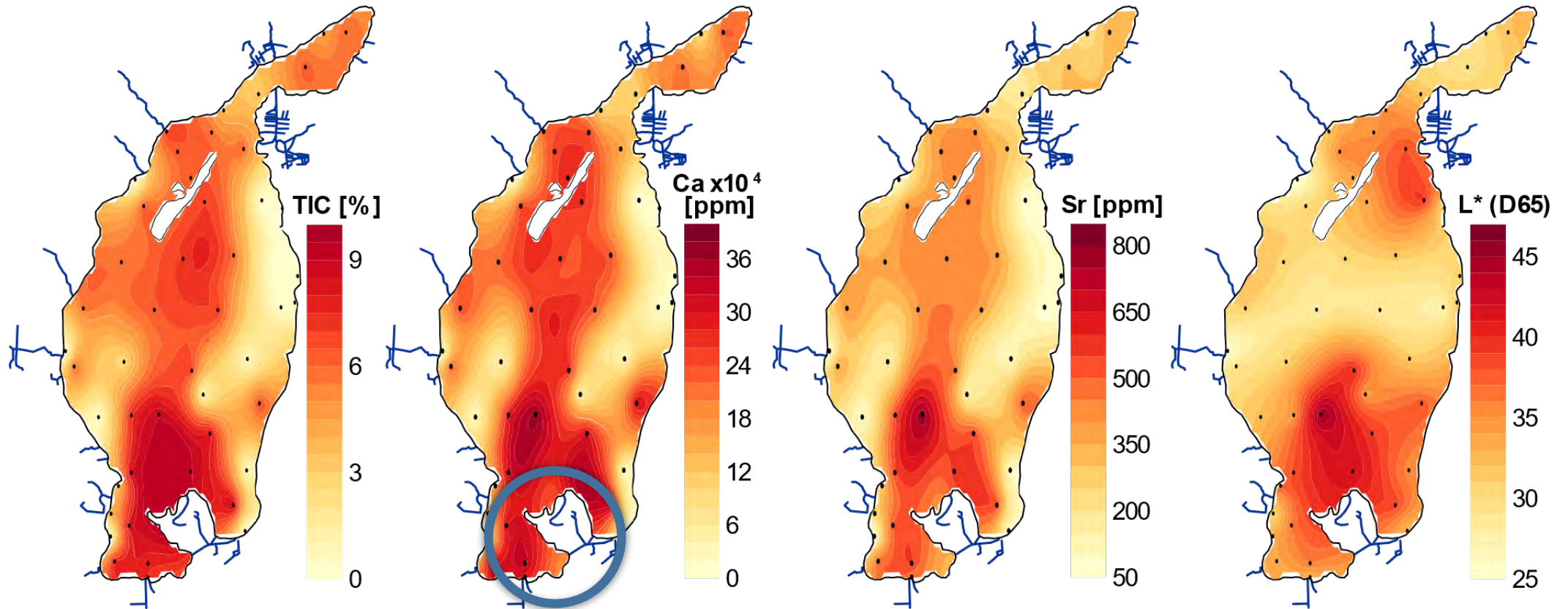


Bindung von C im Sediment
durch absterbende Biomasse



Kohlenstoffsenke

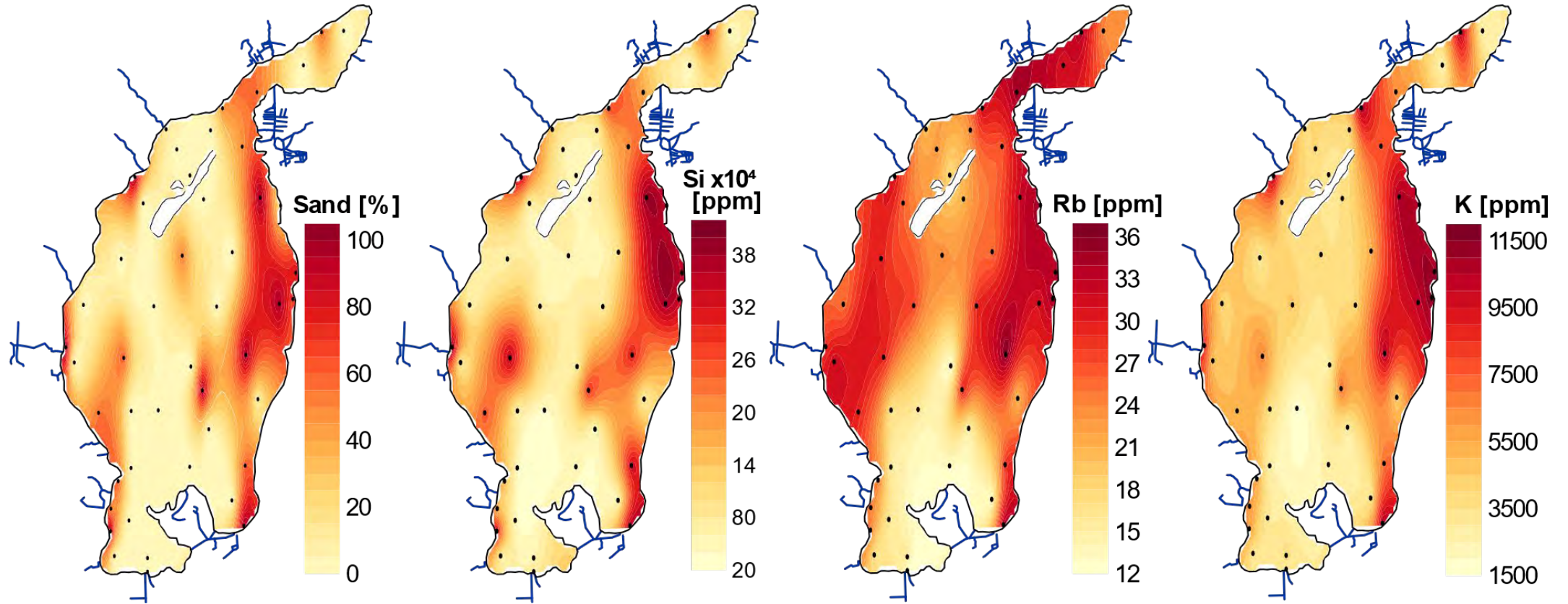
Carbonates



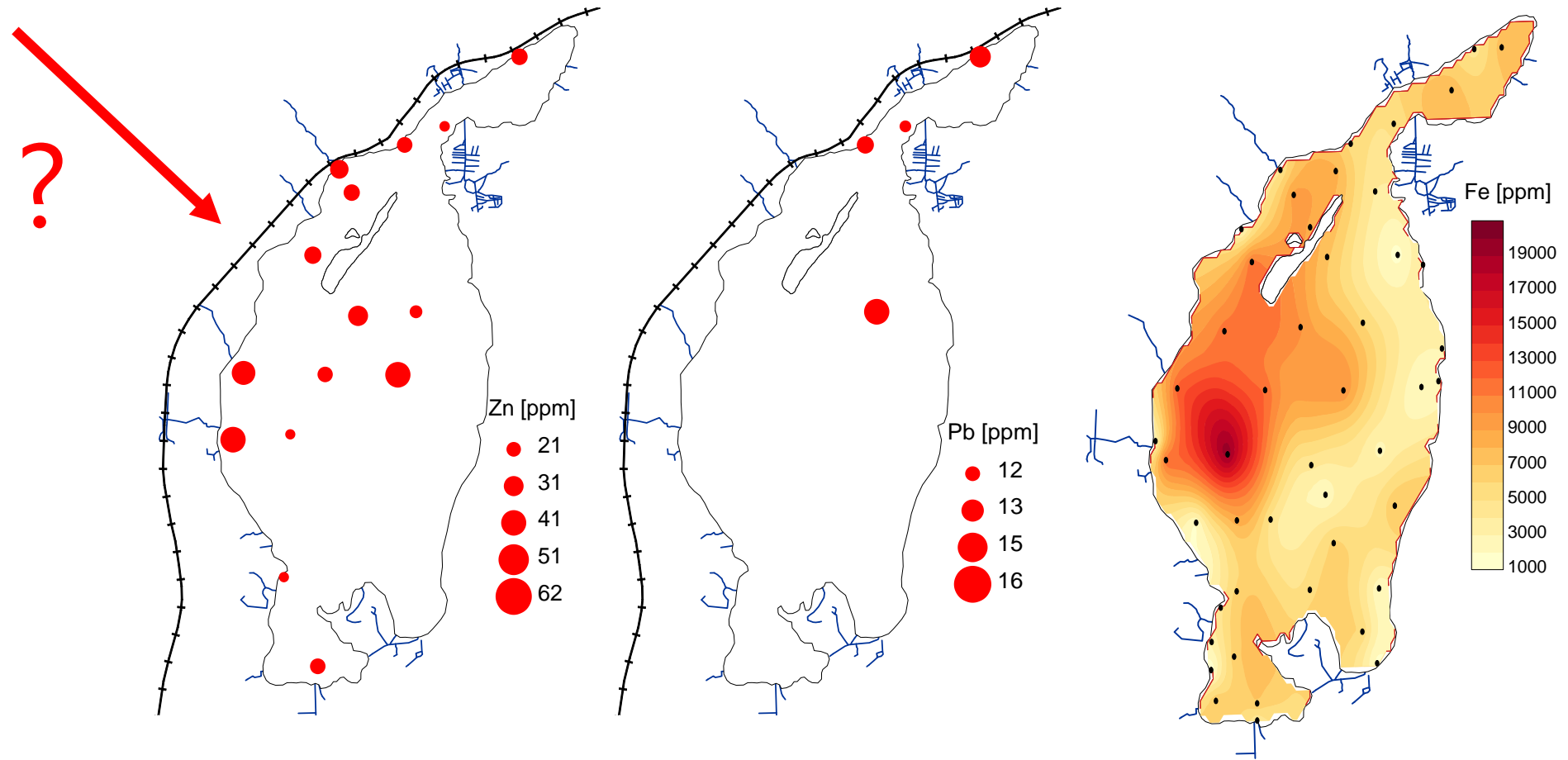
Ramper Moor

Früher: Abbau von Seekreide
Heute: Naturschutzgebiet

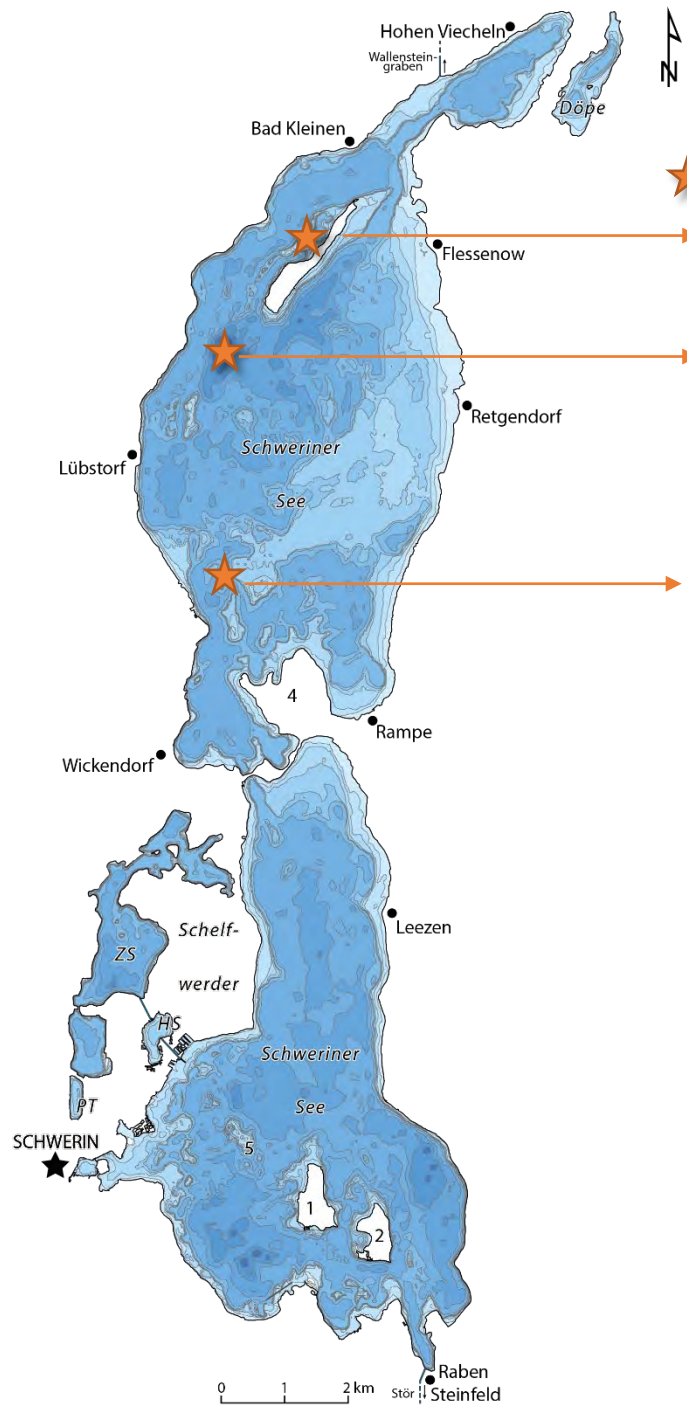
Grain Size and Silicilastics



Surface Sediment Mapping



Gravity Coring



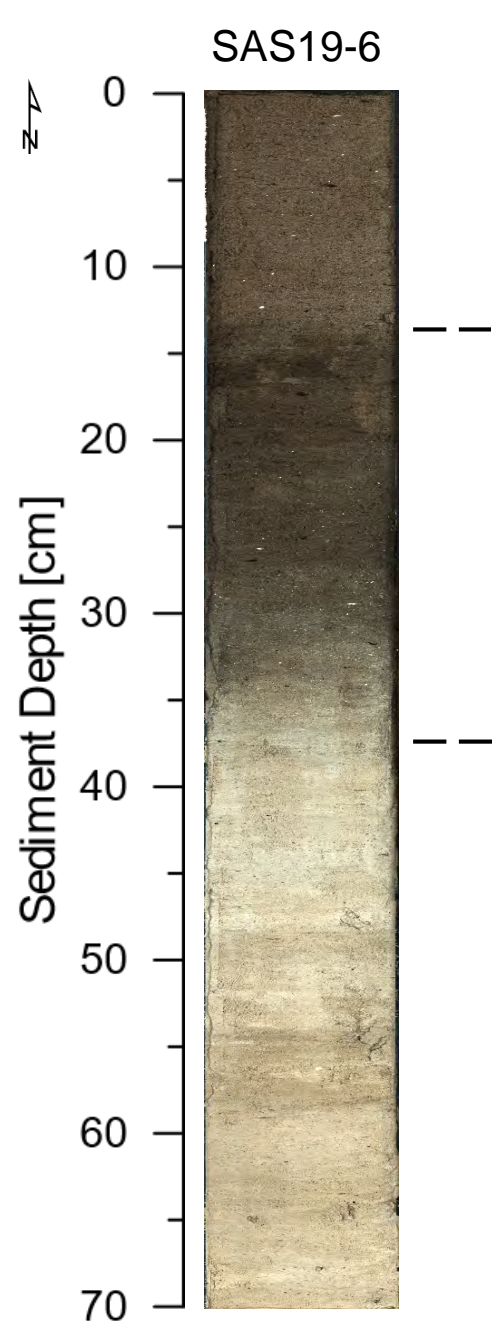
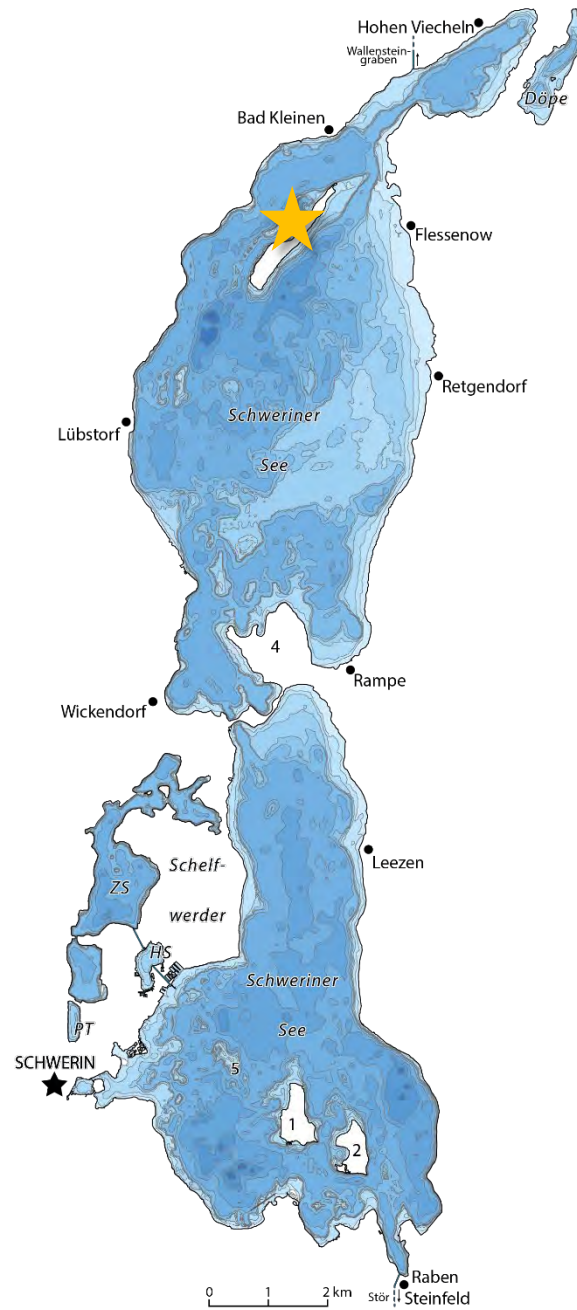
★ Sedimentkerne

→ SAS19-5 & SAS19-6 (Wassertiefe: 6 m)

→ SAS19-4 (Wassertiefe: 52 m)

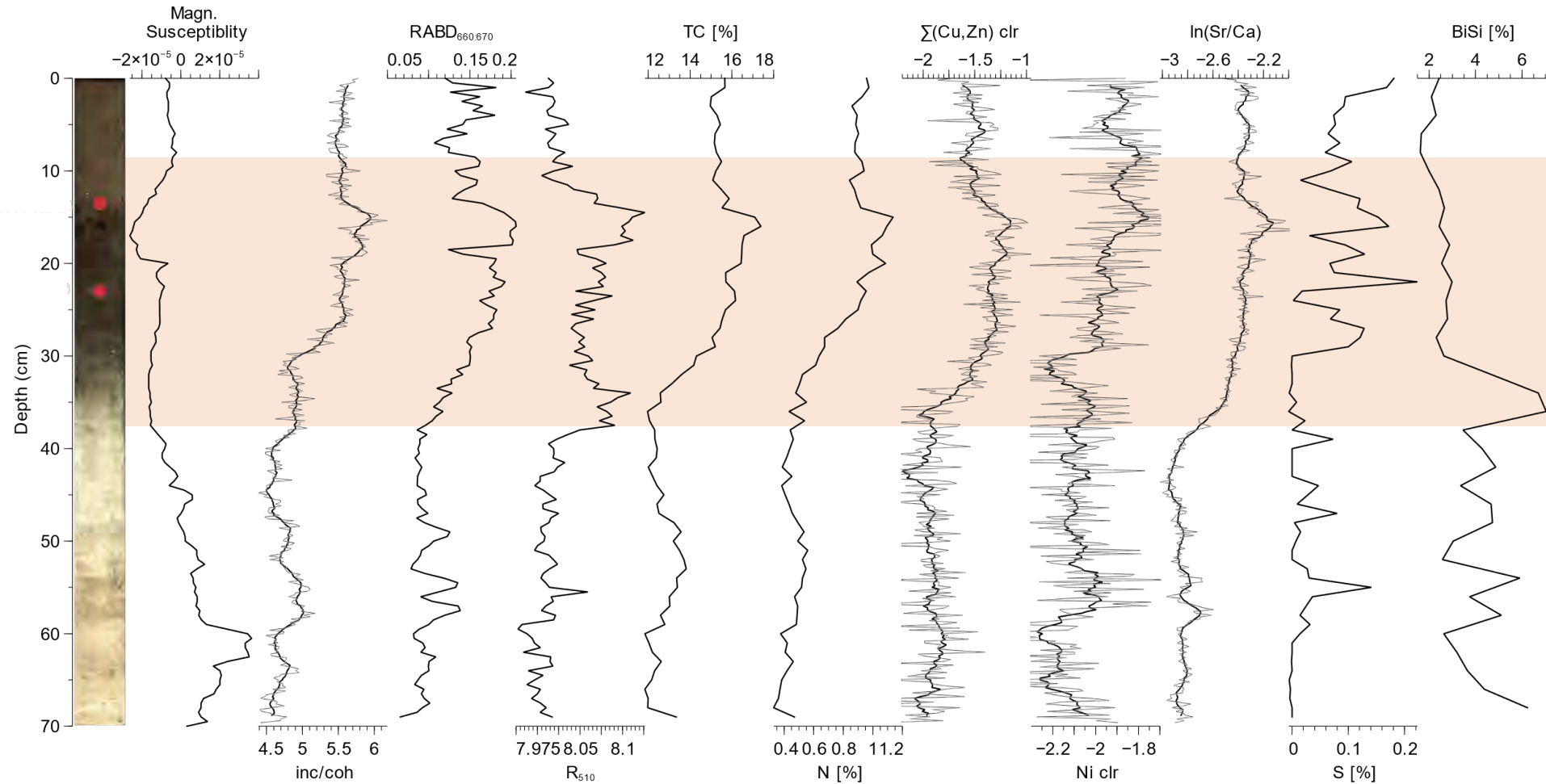
→ SAS19-1, SAS19-2, SAS19-3 (Wassertiefe: 10 m)



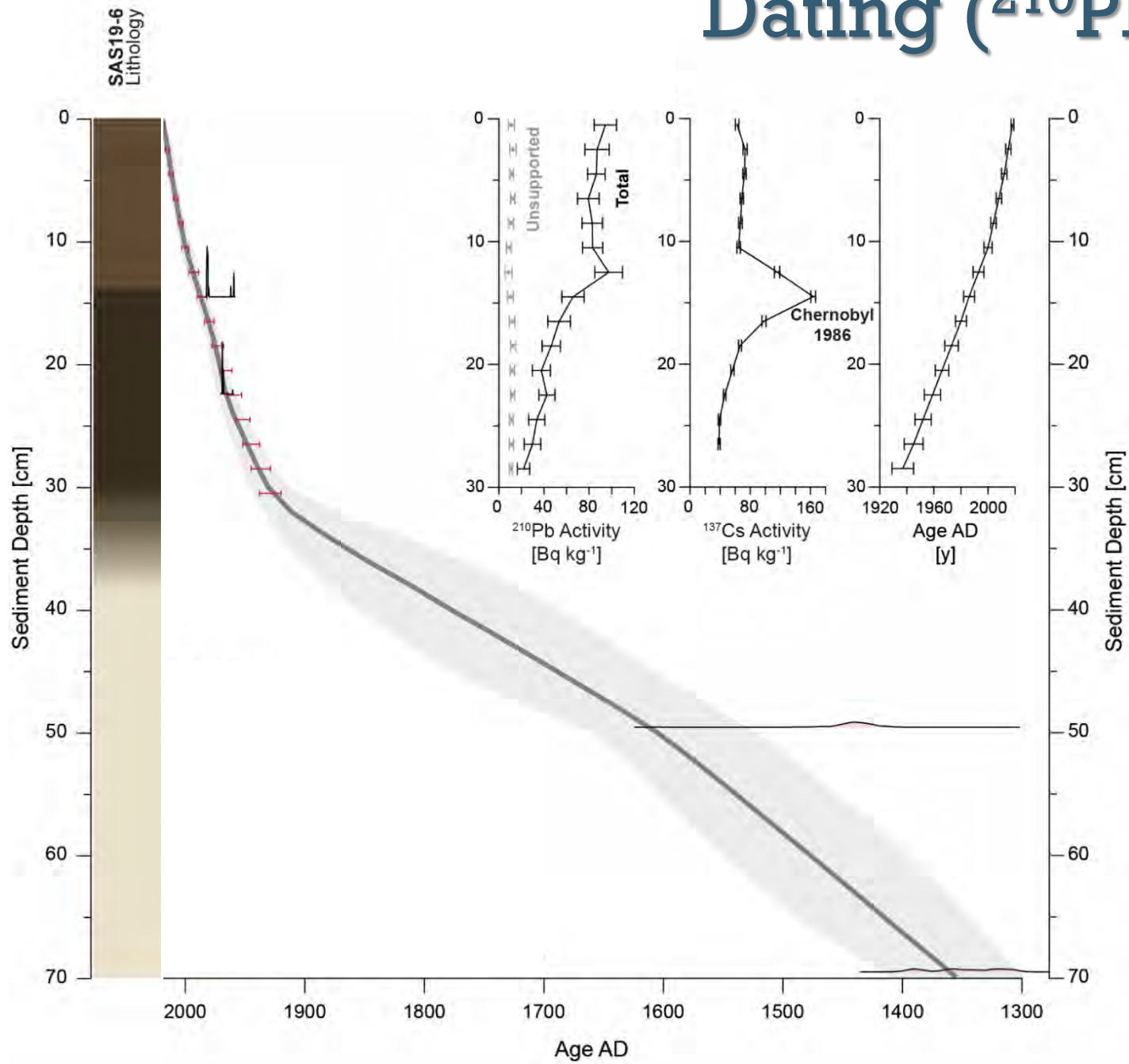


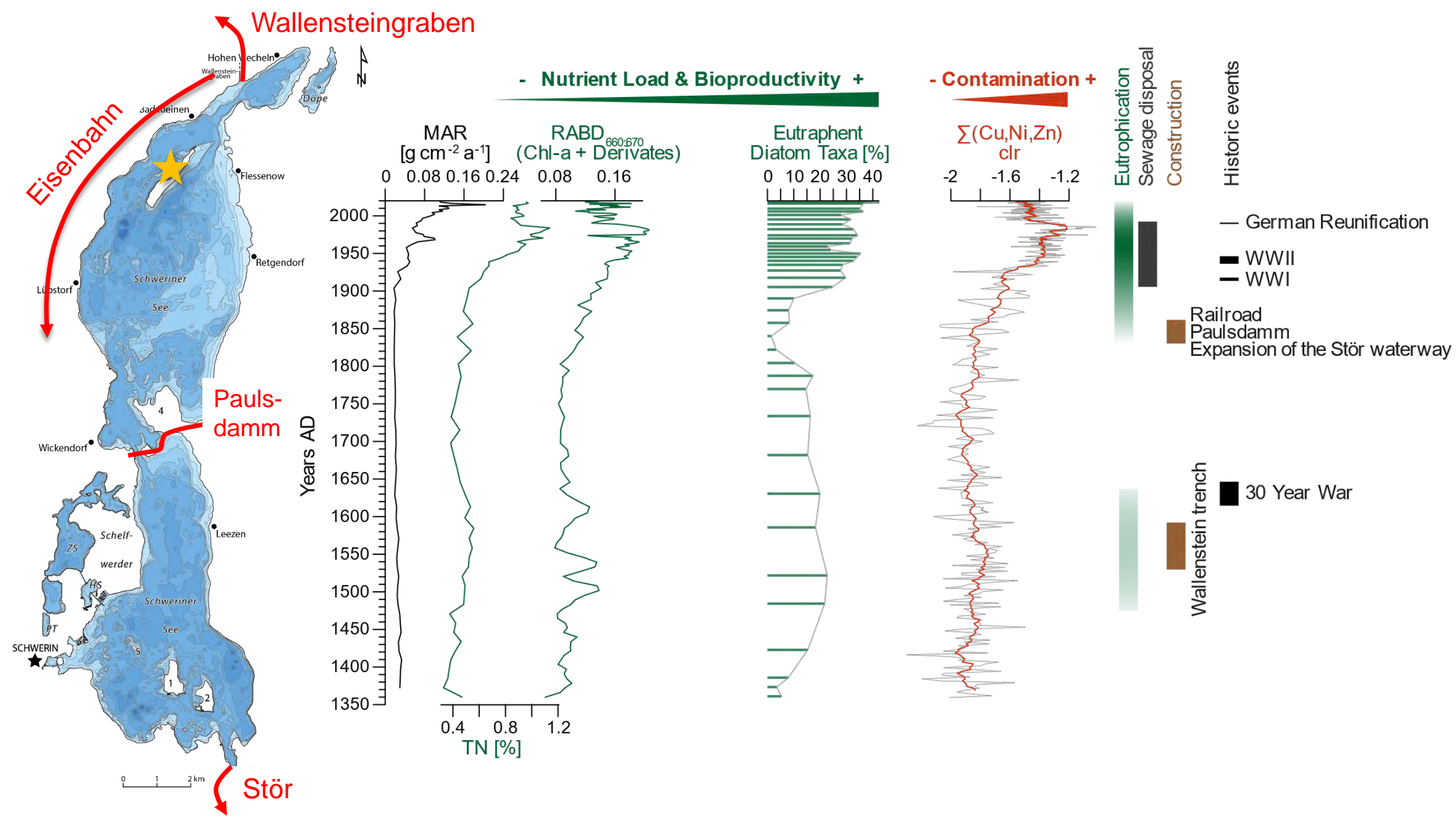
Sediment Core SAS19-6

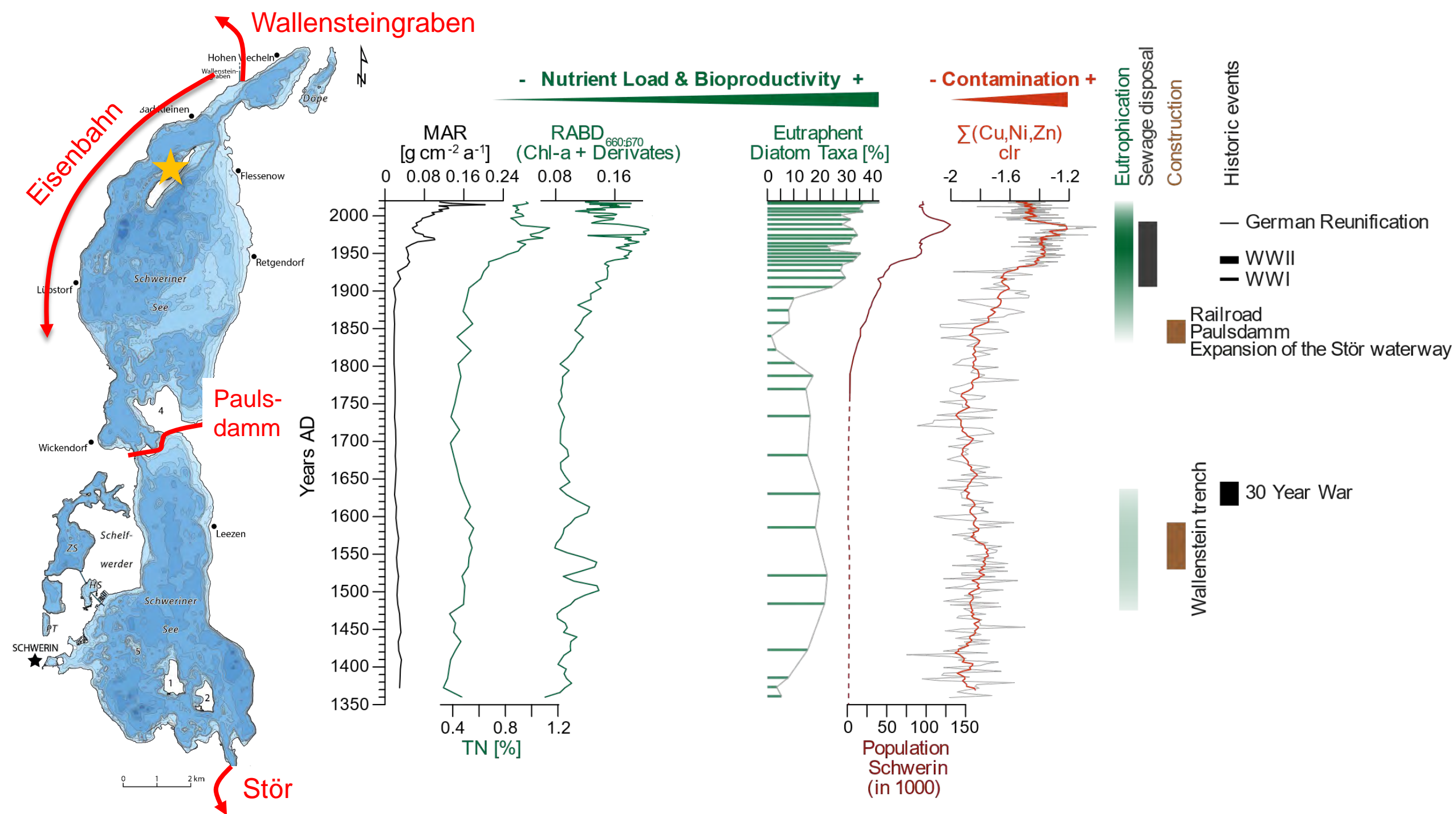
Sediment Core SAS19-6

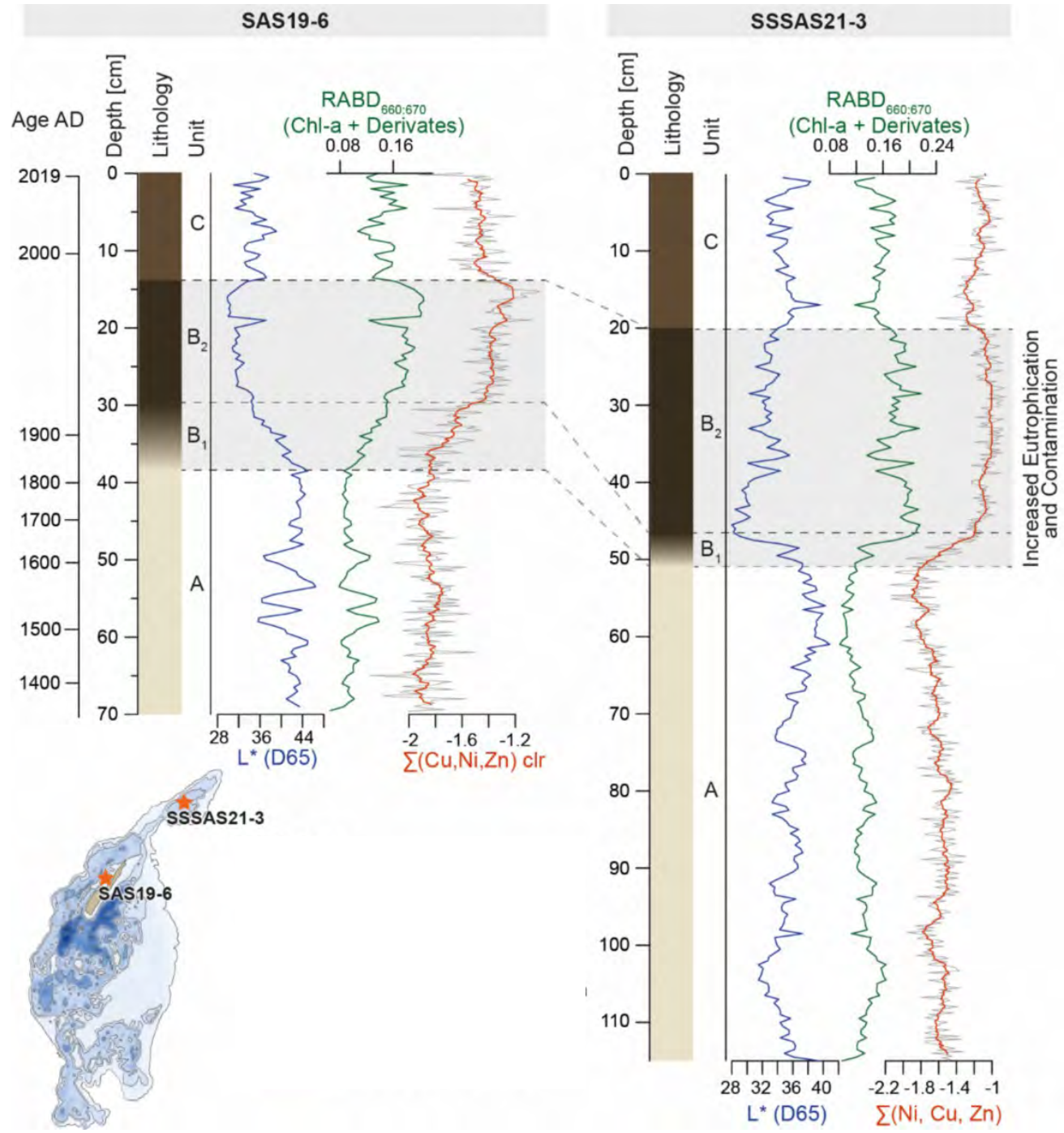


Dating ($^{210}\text{Pb}/^{137}\text{Cs}$, ^{14}C)

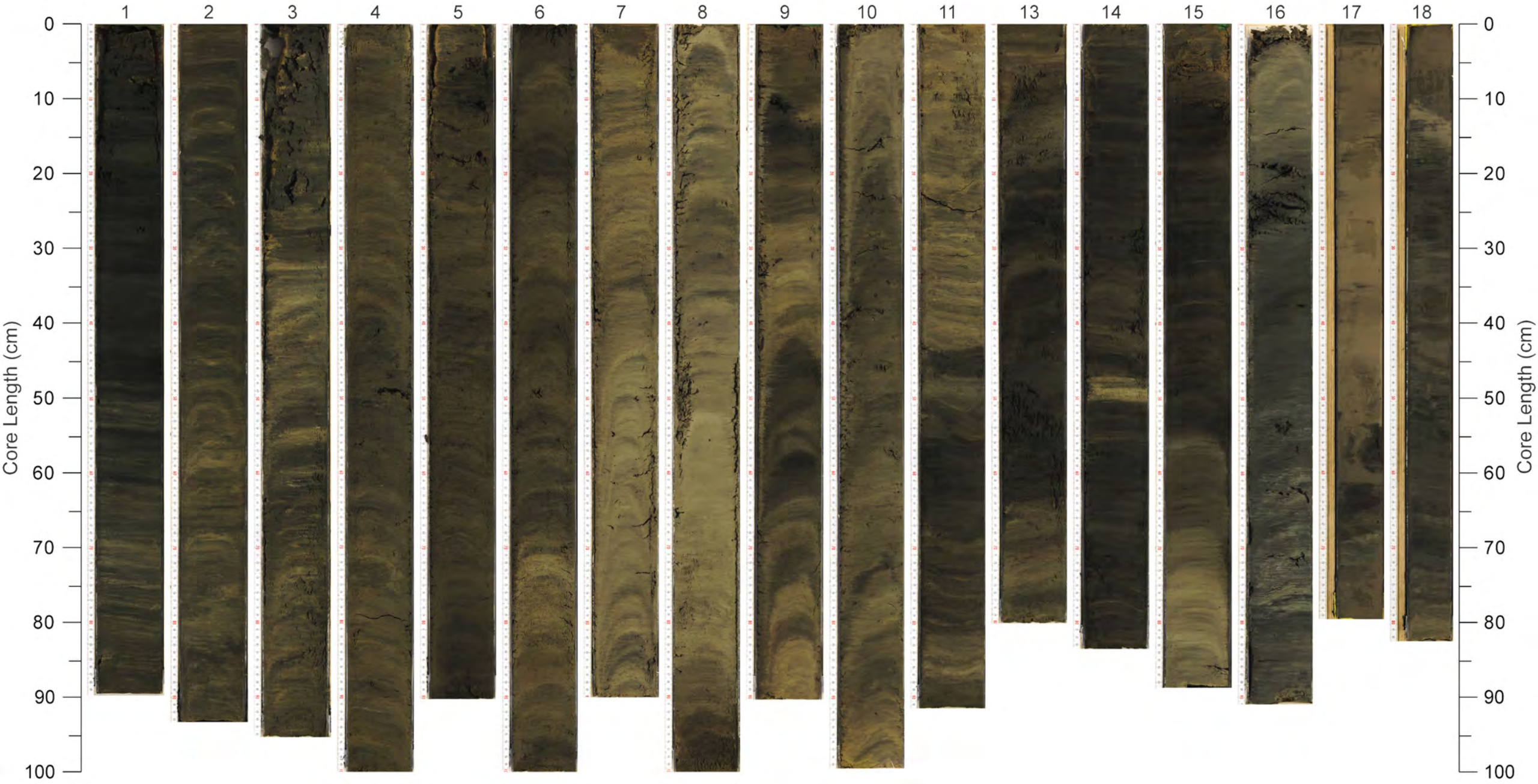




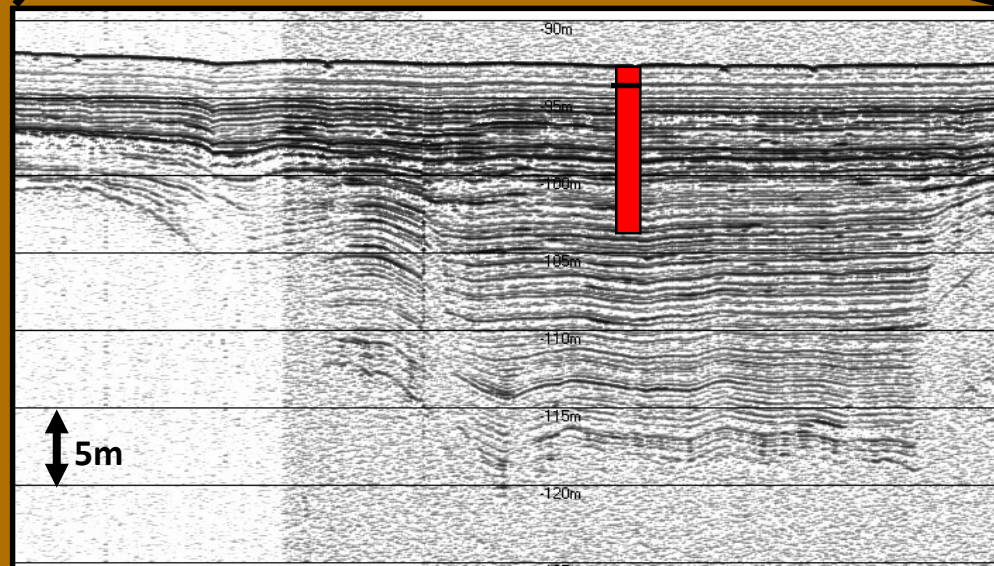
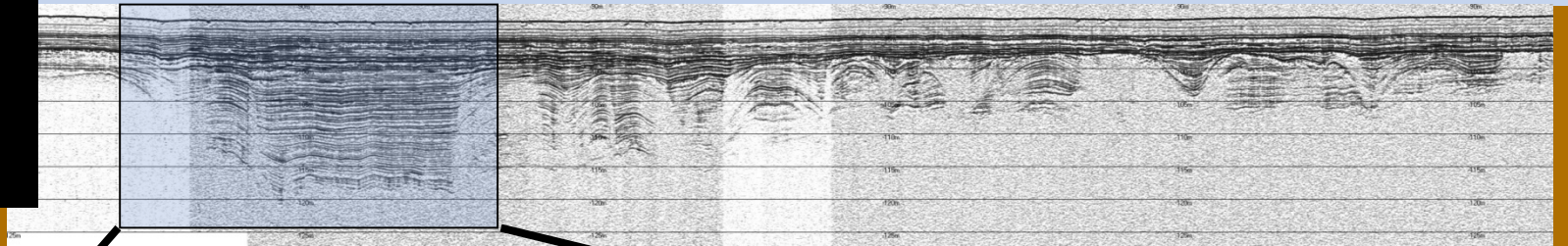




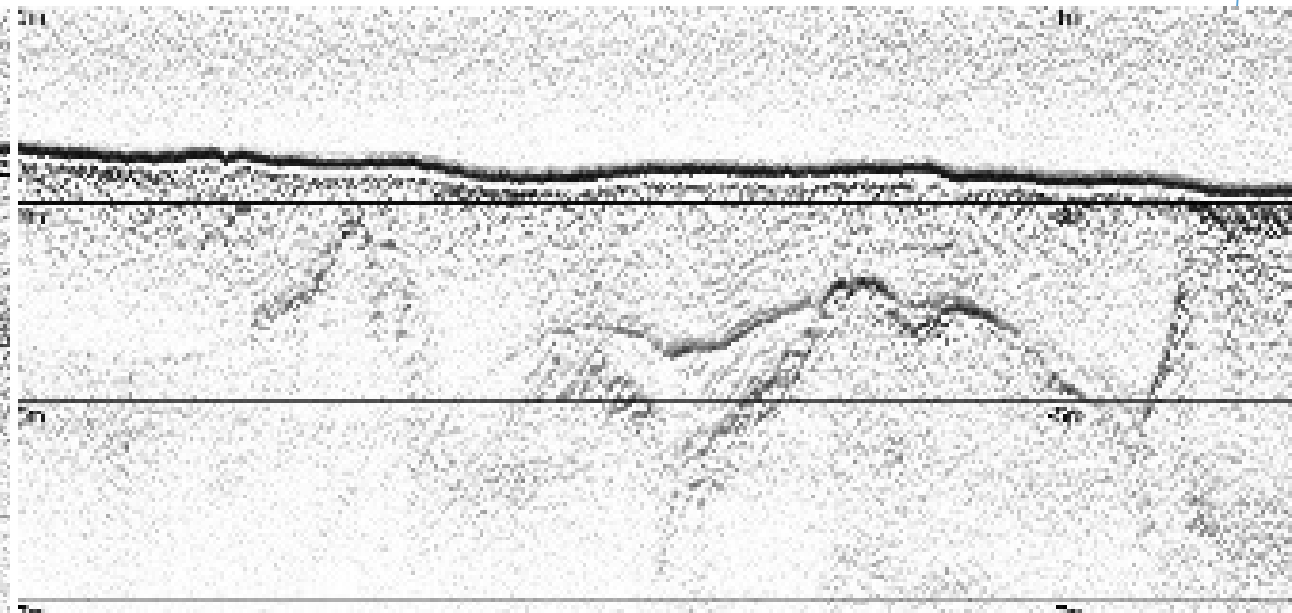
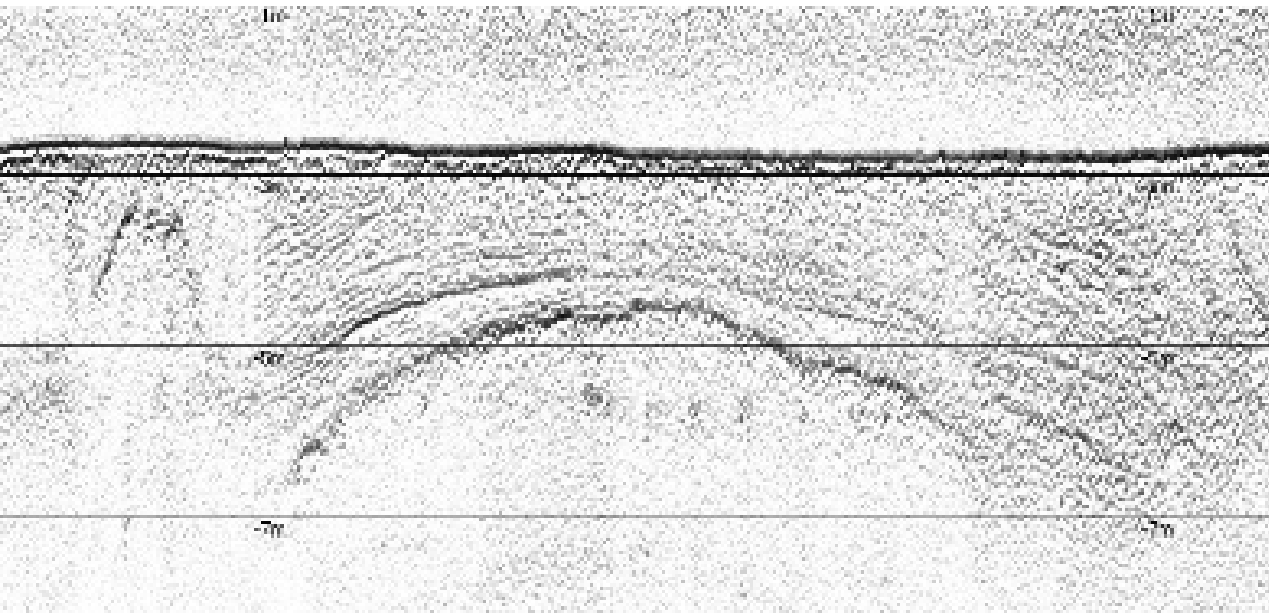
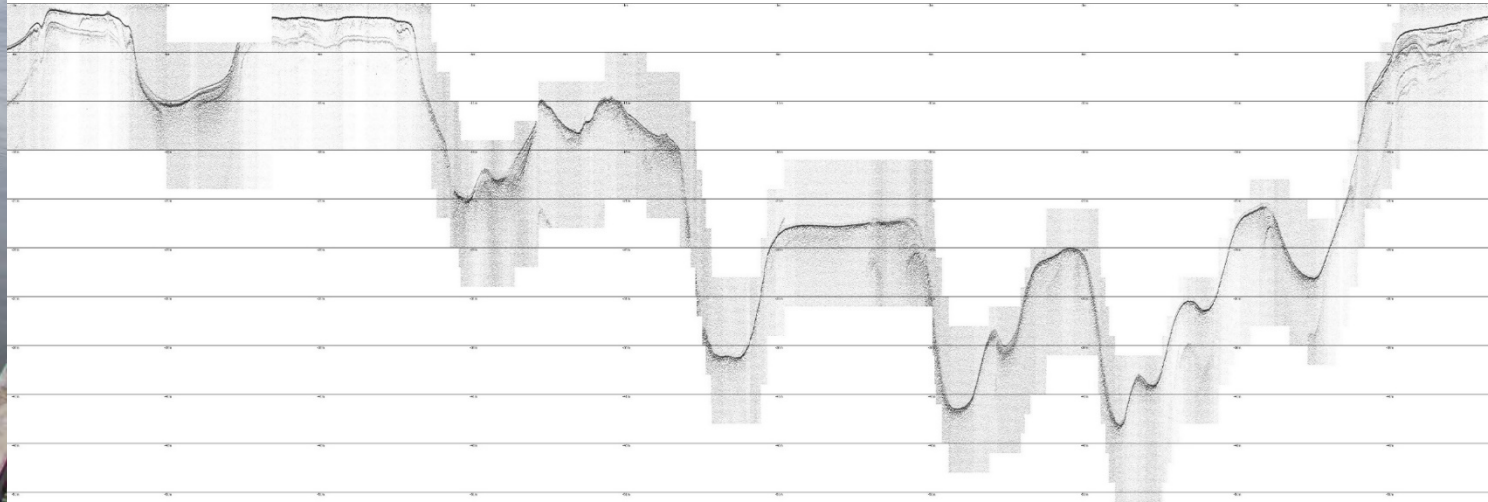
SAS21-12-



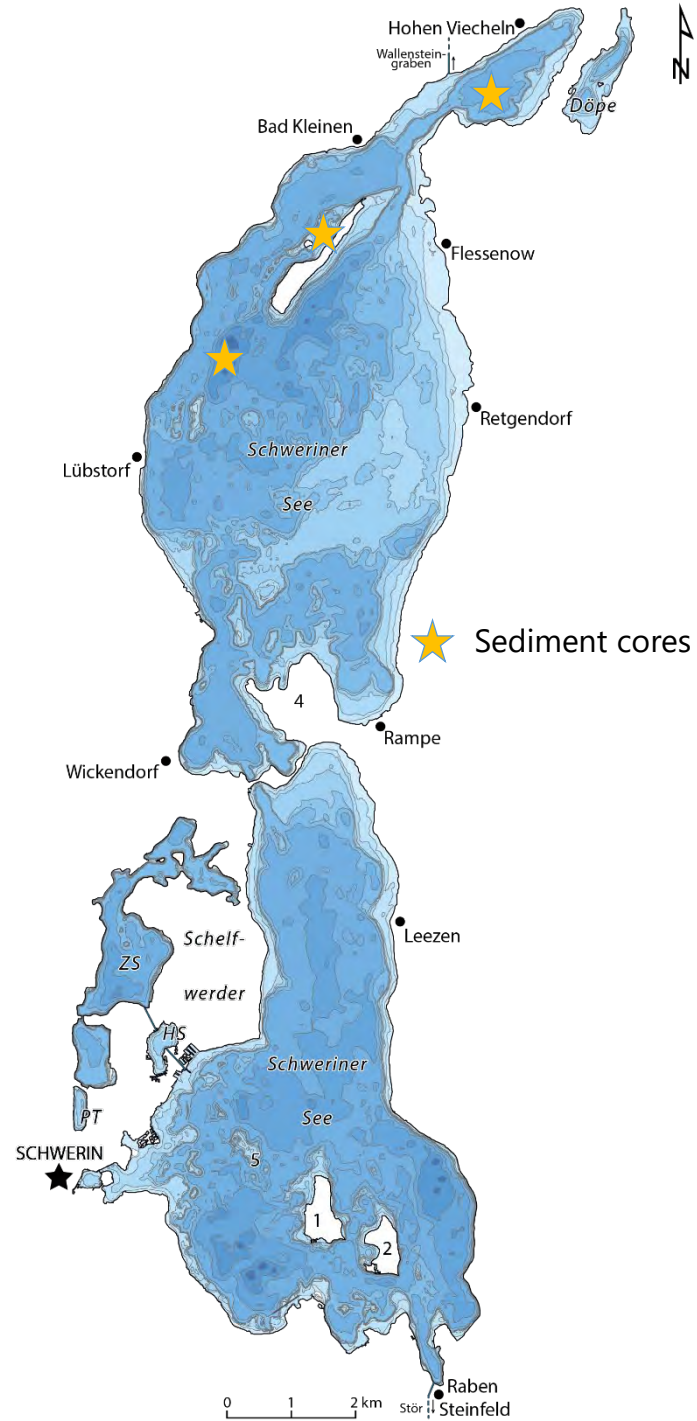
Seismic Survey



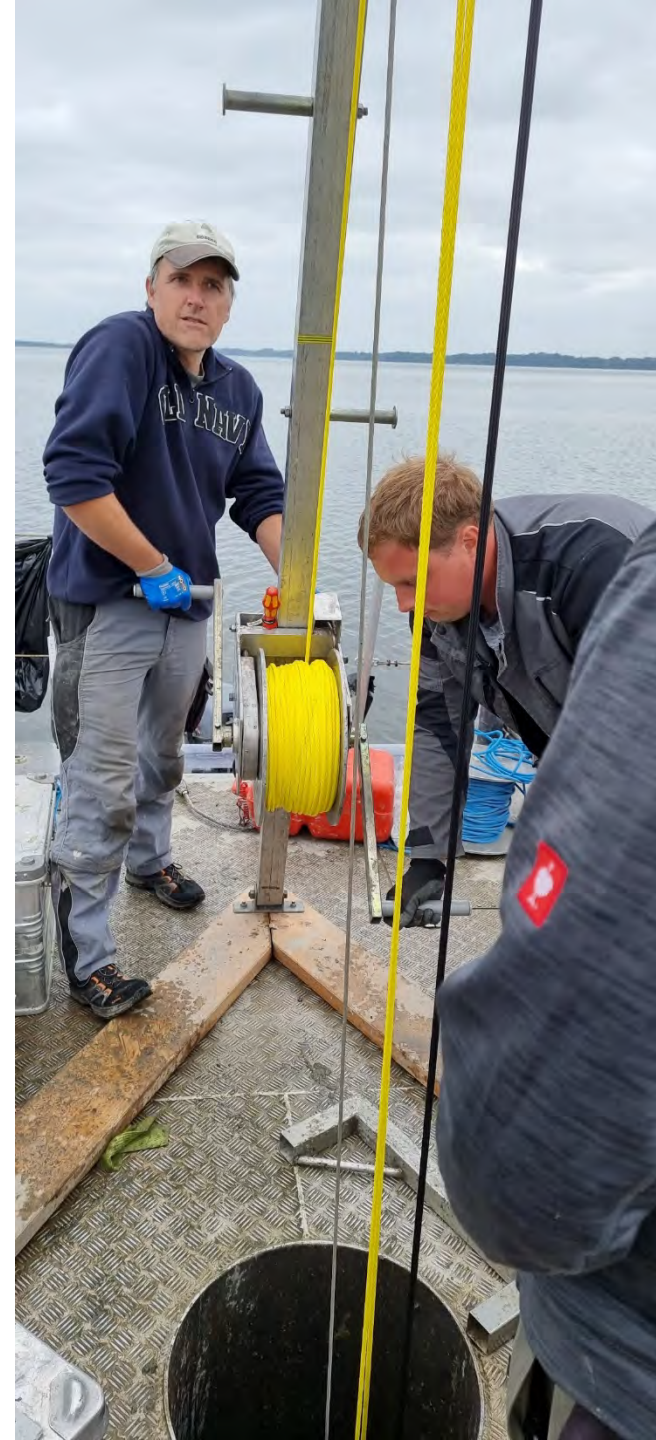
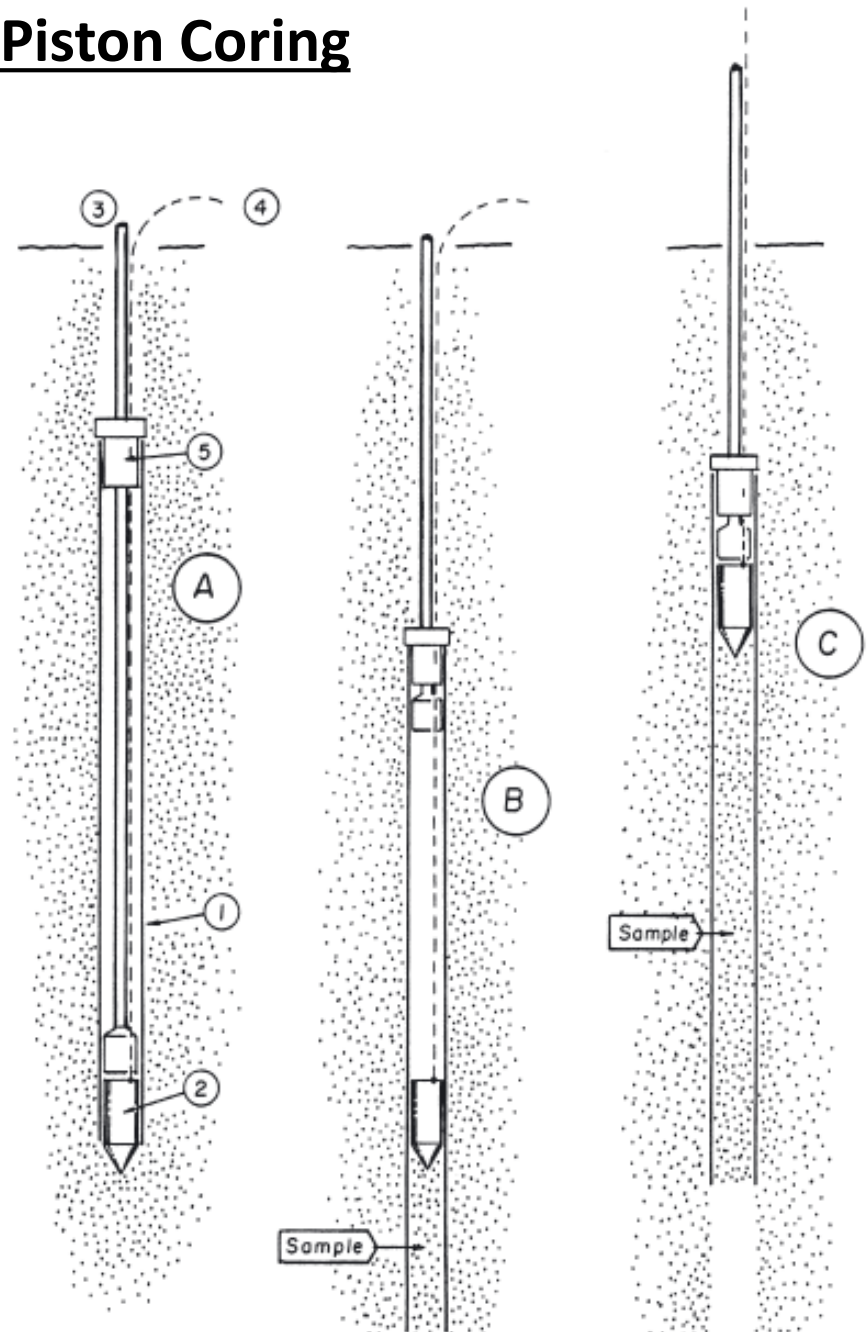
Seismic Survey Schwerin

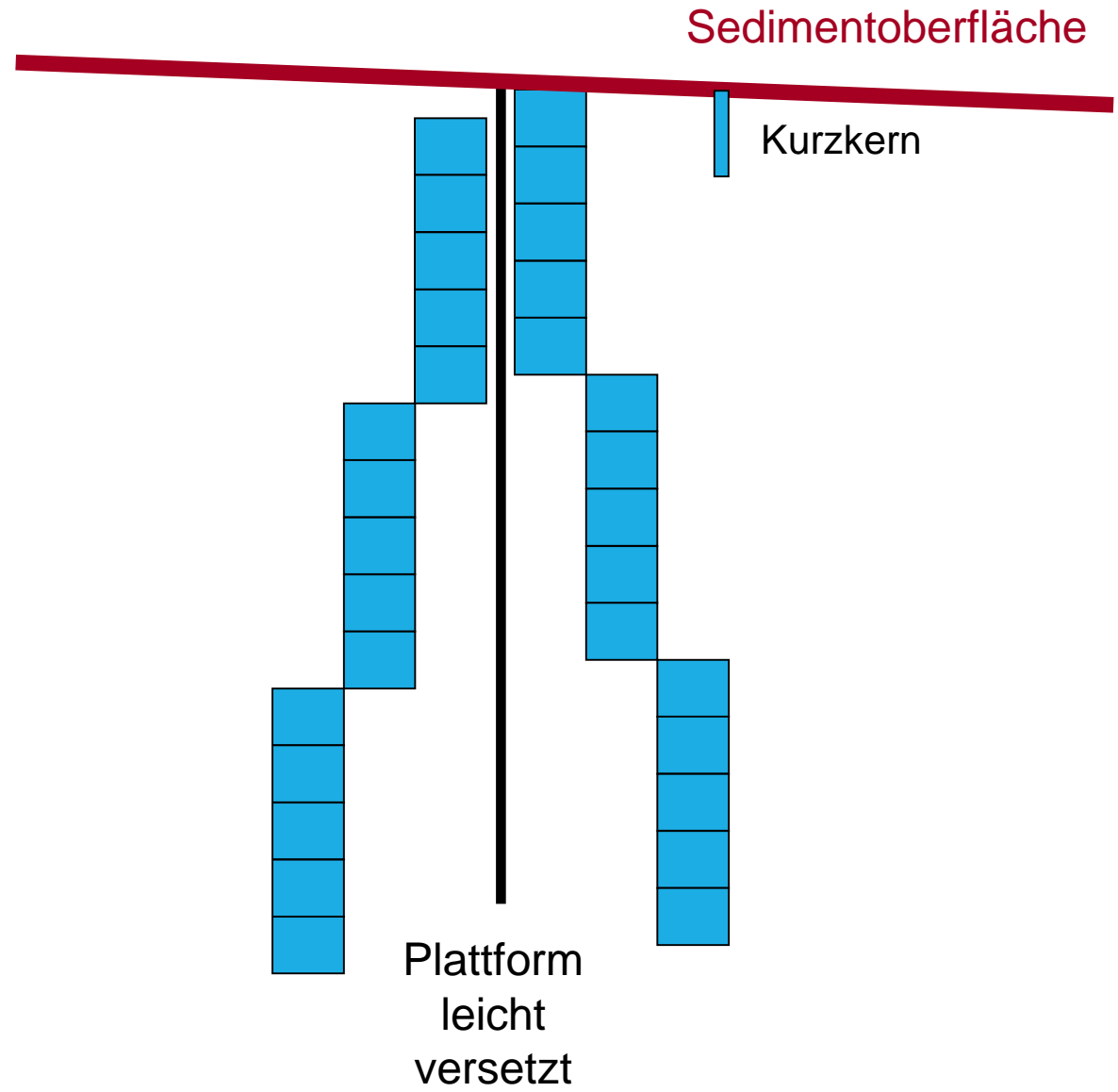
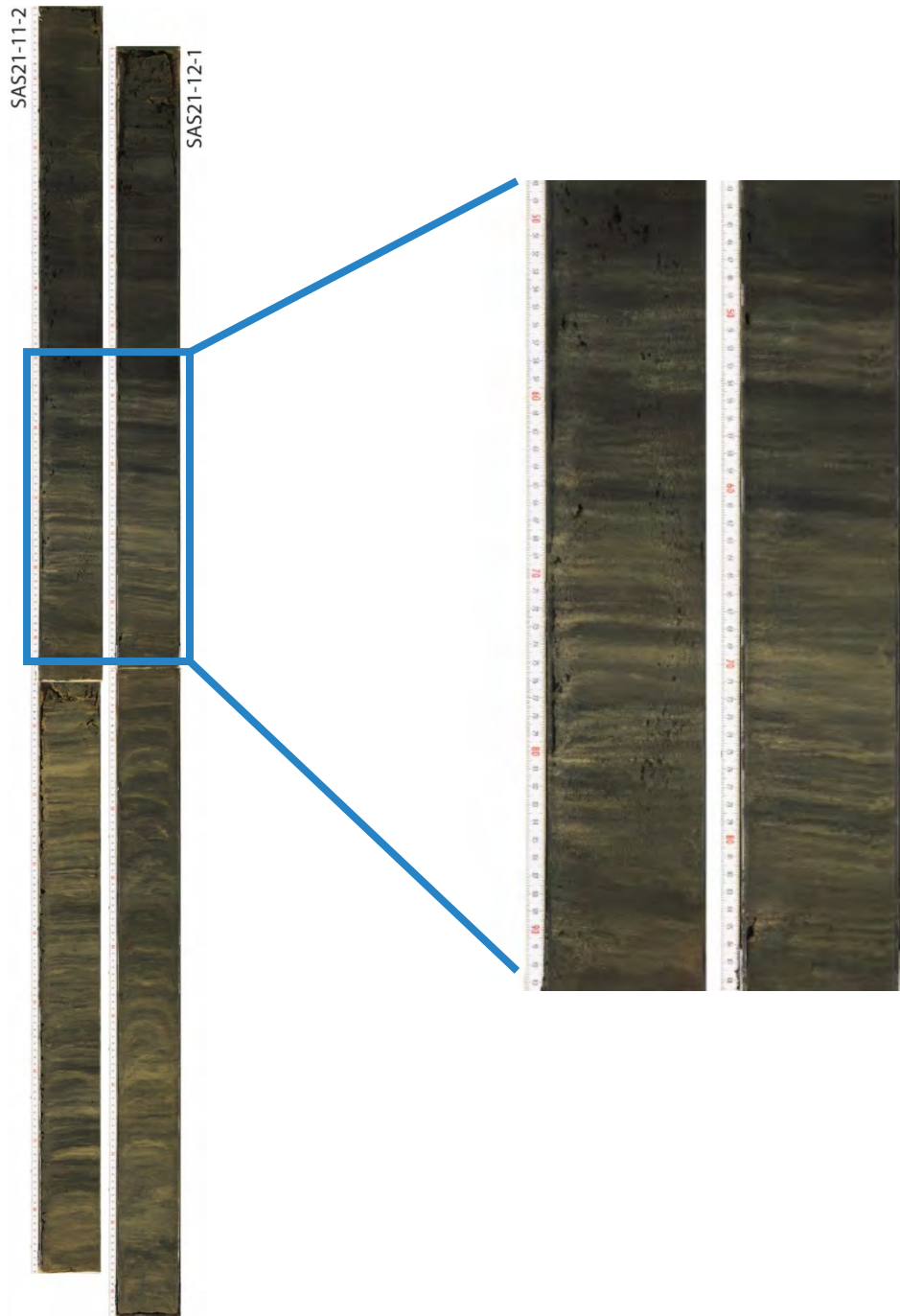


Kolbenlotkerne



Piston Coring







60 mm



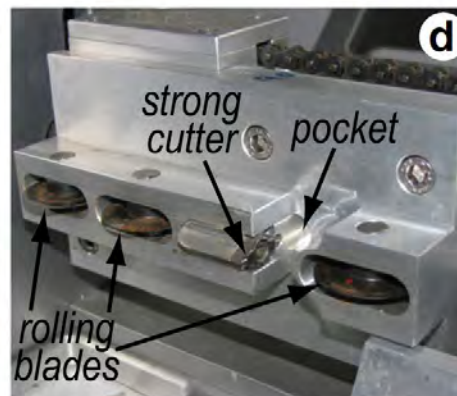
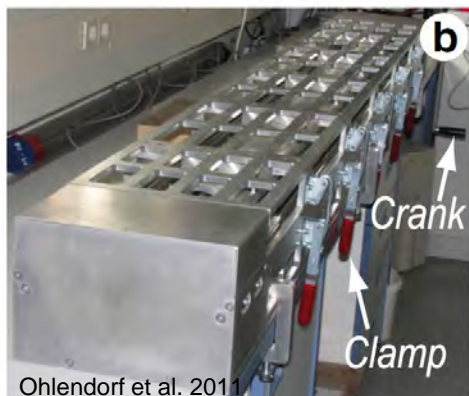
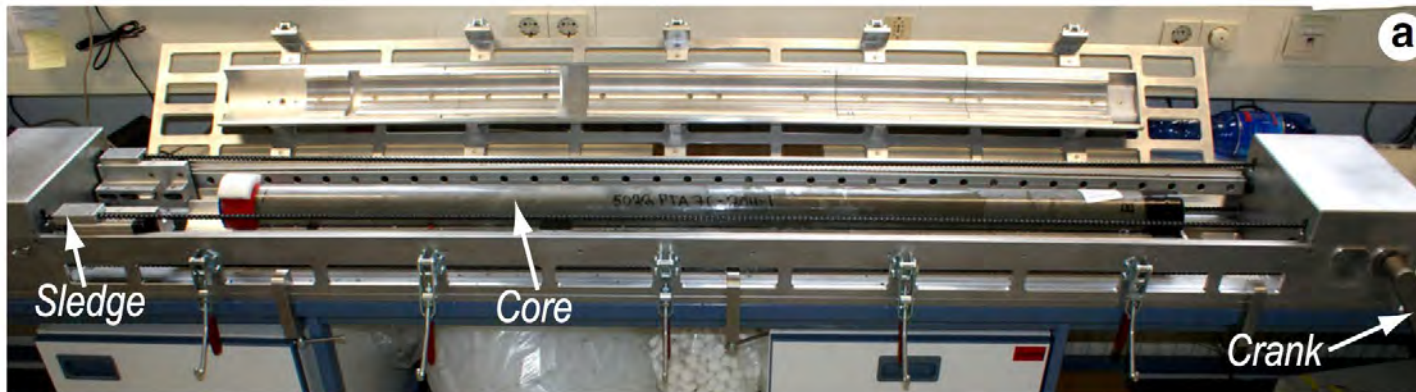
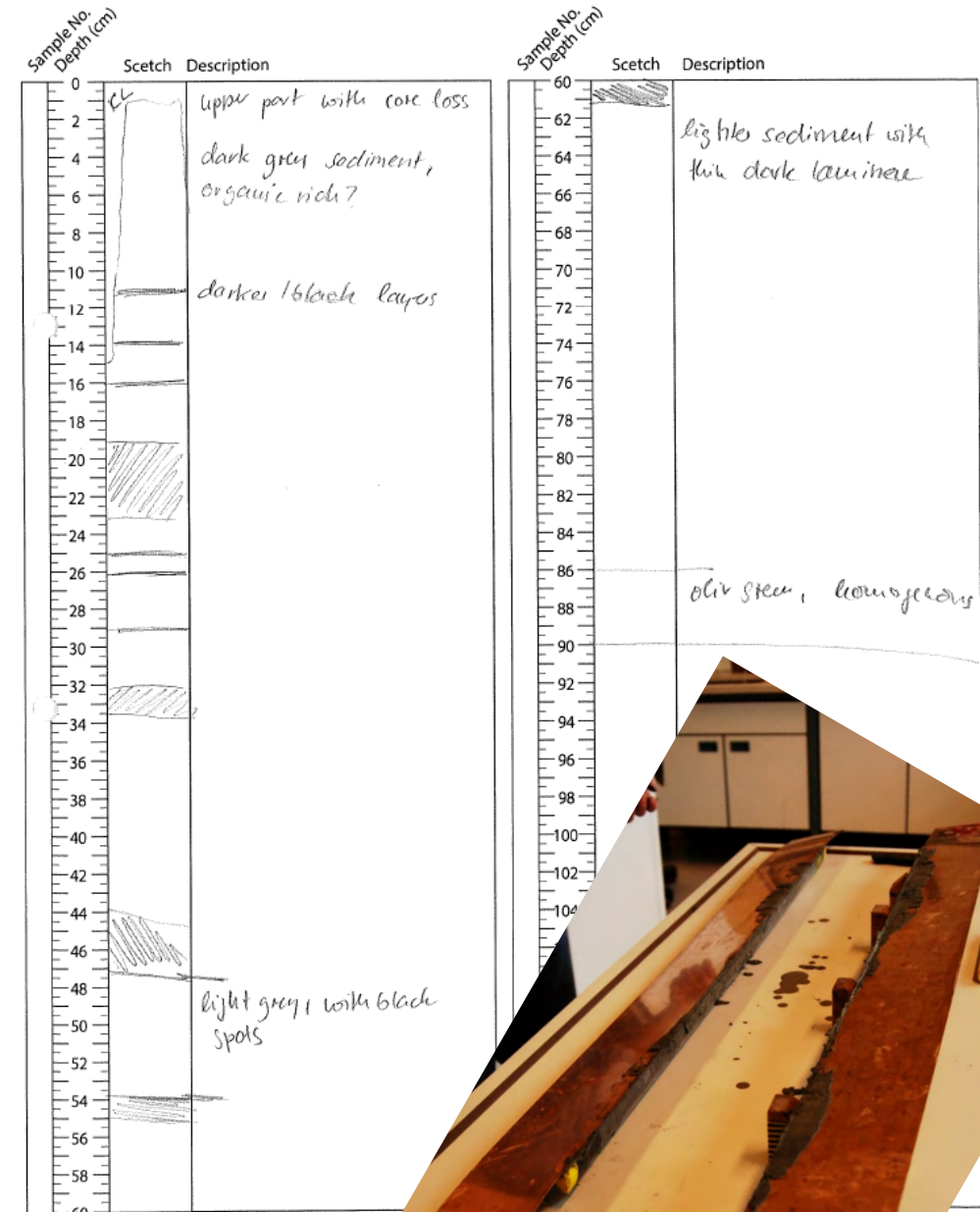
90 mm



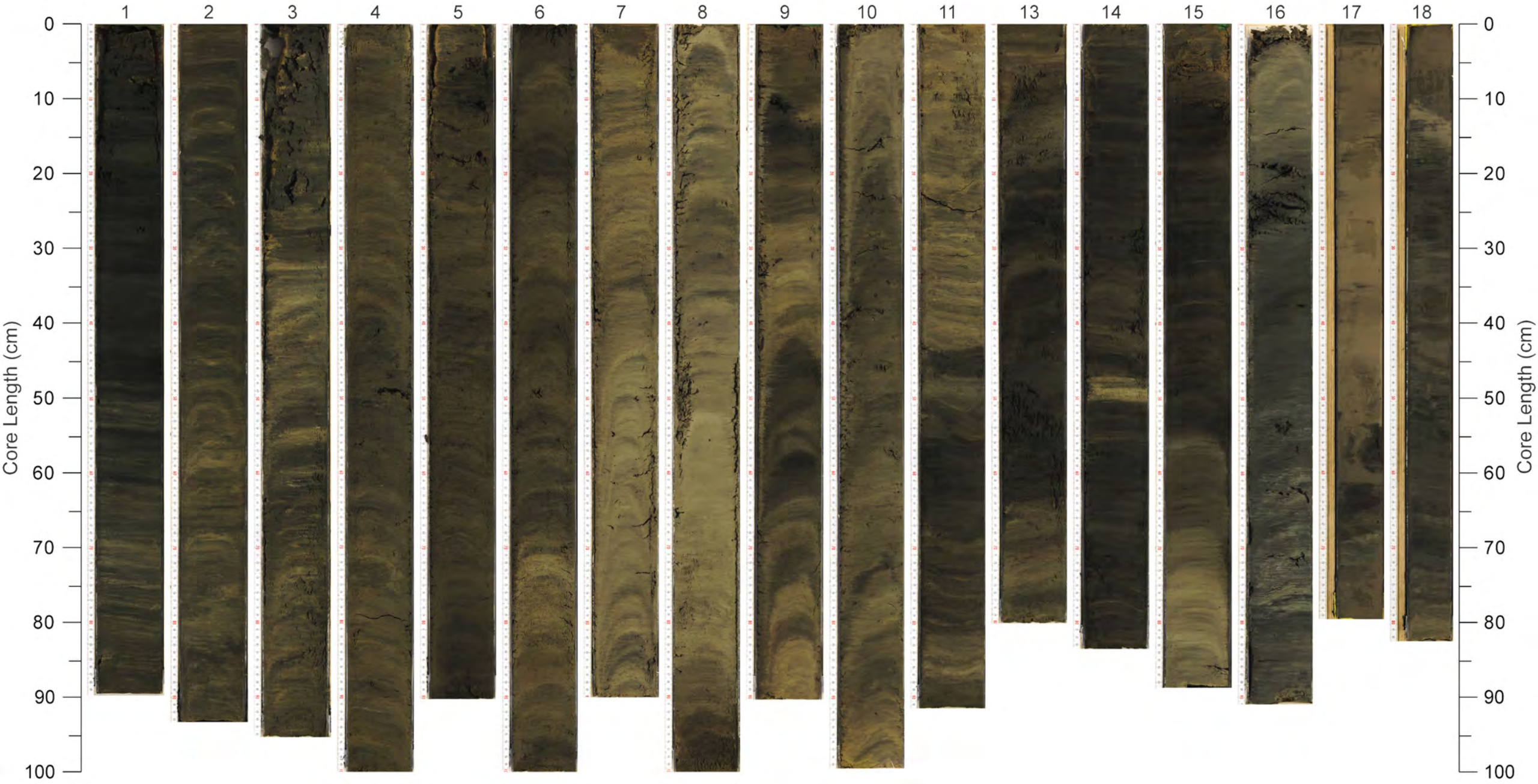
Site *Schwinde See* Core-ID: *SAS 21-12-1*

Water depth: *52m*
 Opening date: *24. 11. 2021*
 Examiner:
 Core type:
 Fotos:
 Multisensor:
 Remarks:

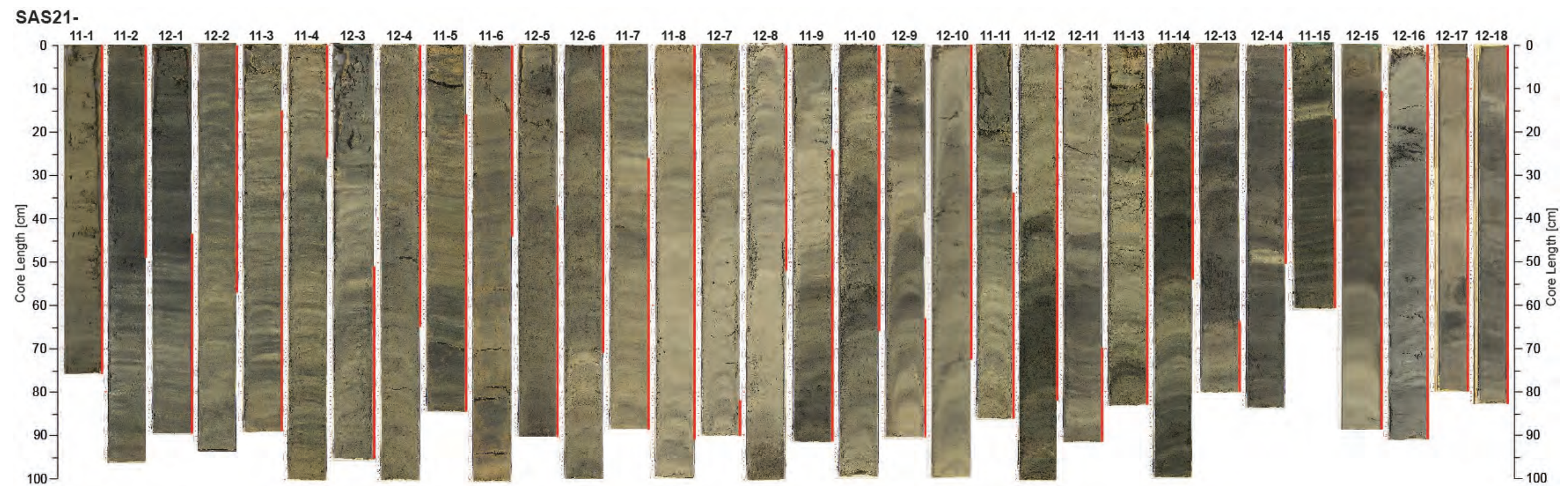
Description guidelines
 1. Sediment class (clastic, chemical or biogenic)
 2. Grain size (gravel (>2mm), sand (2mm-63µm), silt (63-2µm), clay (<2µm).
 Modifiers: fine, middle and coarse or eg. sandy silt etc)
 3. Color (e.g. brownish grey)
 4. Structure (e.g. laminated, homogenous, bioturbated, etc.)
 5. Organics (e.g. terrestrial plant remains, diatoms, ostracods, etc.)
 6. Additions (e.g. high water, or organic content consolidated, well rounded grains, type of minerals)
 Example: 12-25cm: Clastic sandy silt, brownish grey, laminated, with terrestrial plant remains. Organic content increases towards top of the section, sand grains-mainly quartz.



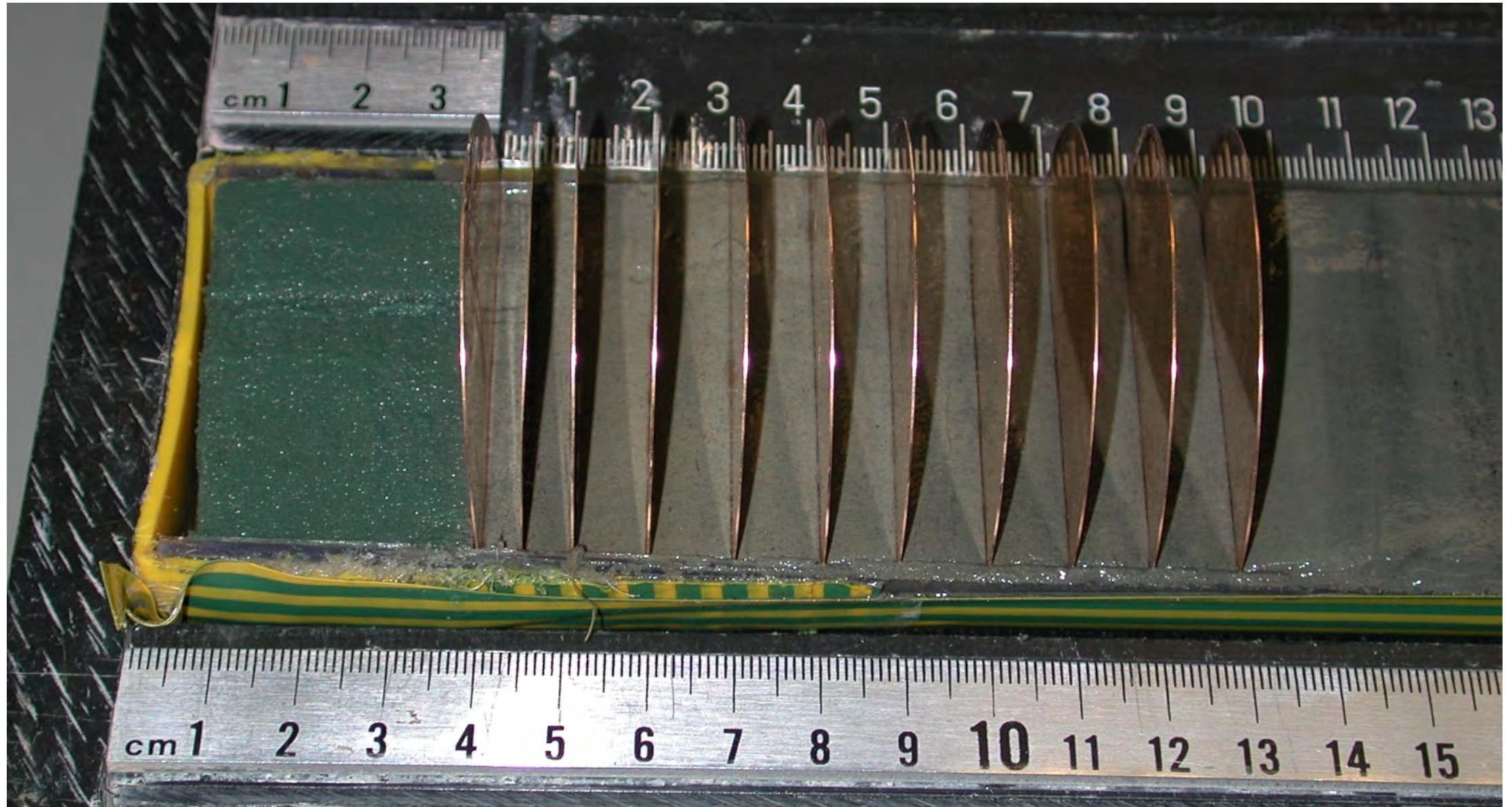
SAS21-12-



Komposit aus zwei Parallelkernen



Beprobung



Fortsetzung
folgt...

Vielen Dank!!!



Mecklenburg-Vorpommern
Ministerium für Klimaschutz,
Landwirtschaft, ländliche
Räume und Umwelt

torsten.haberzettl@uni-greifswald.de