

The current results from the LV seep: Discharge of Meteoric Water in the Eastern Norwegian Sea since the Last Glacial Period

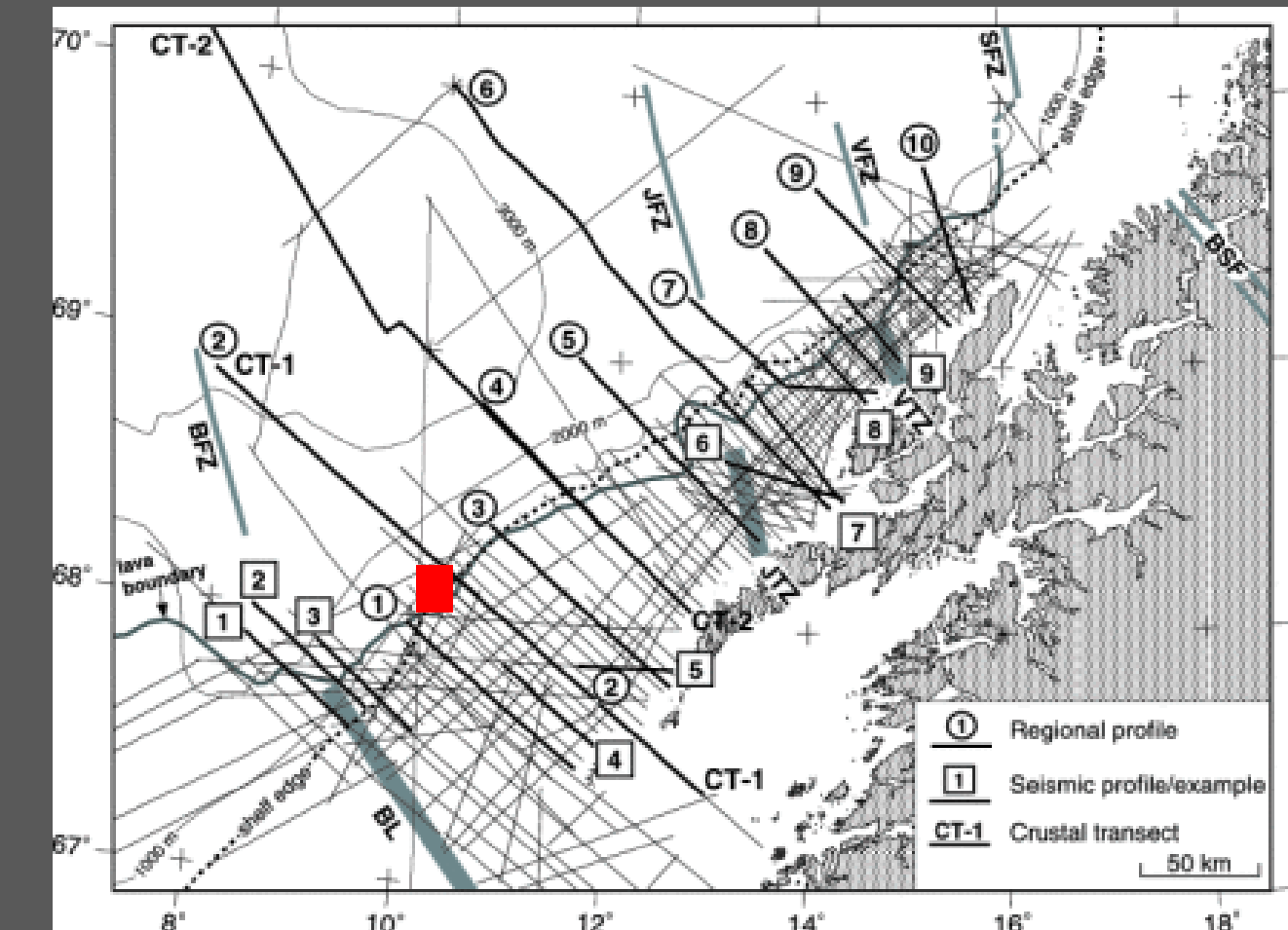
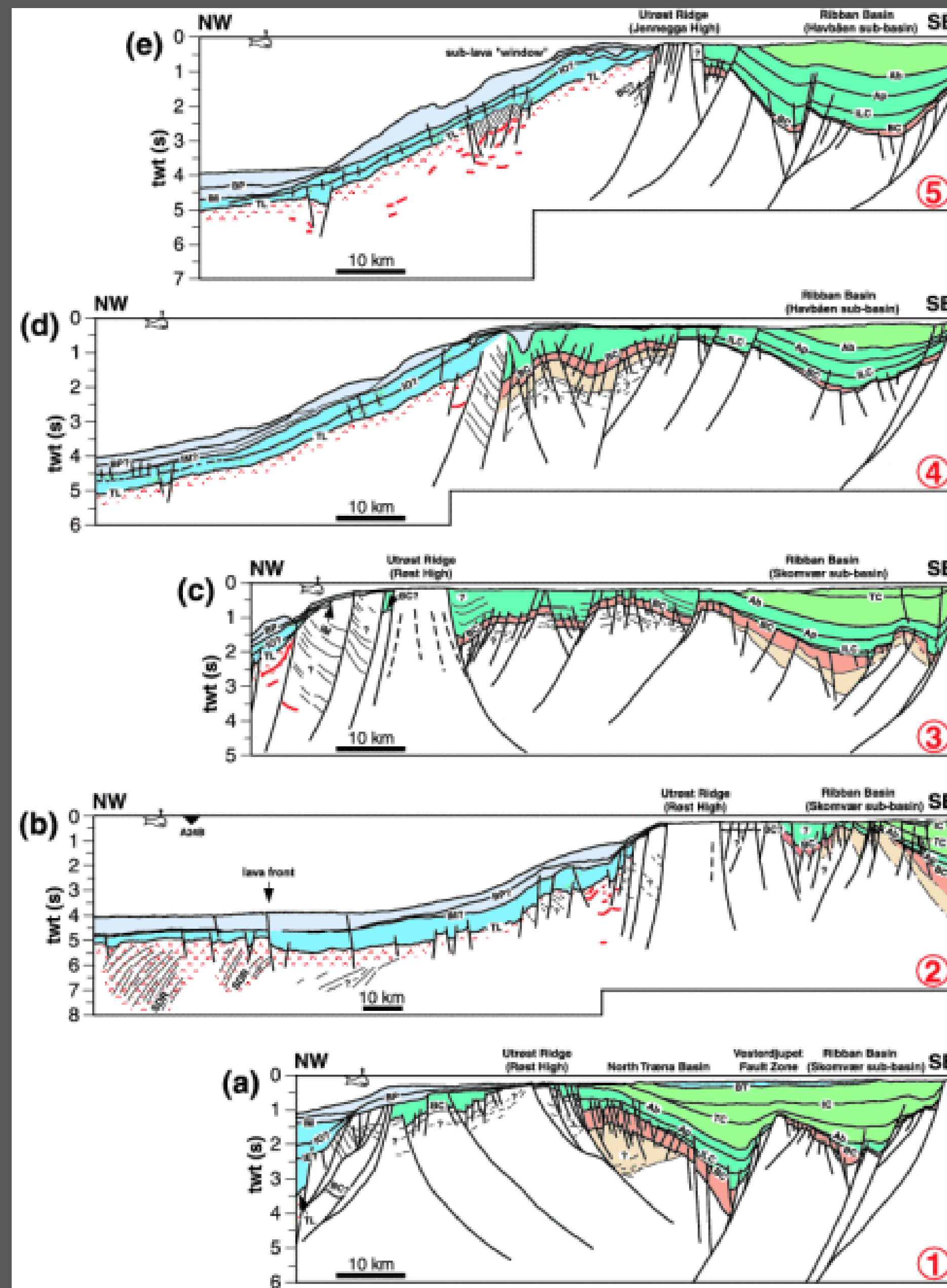
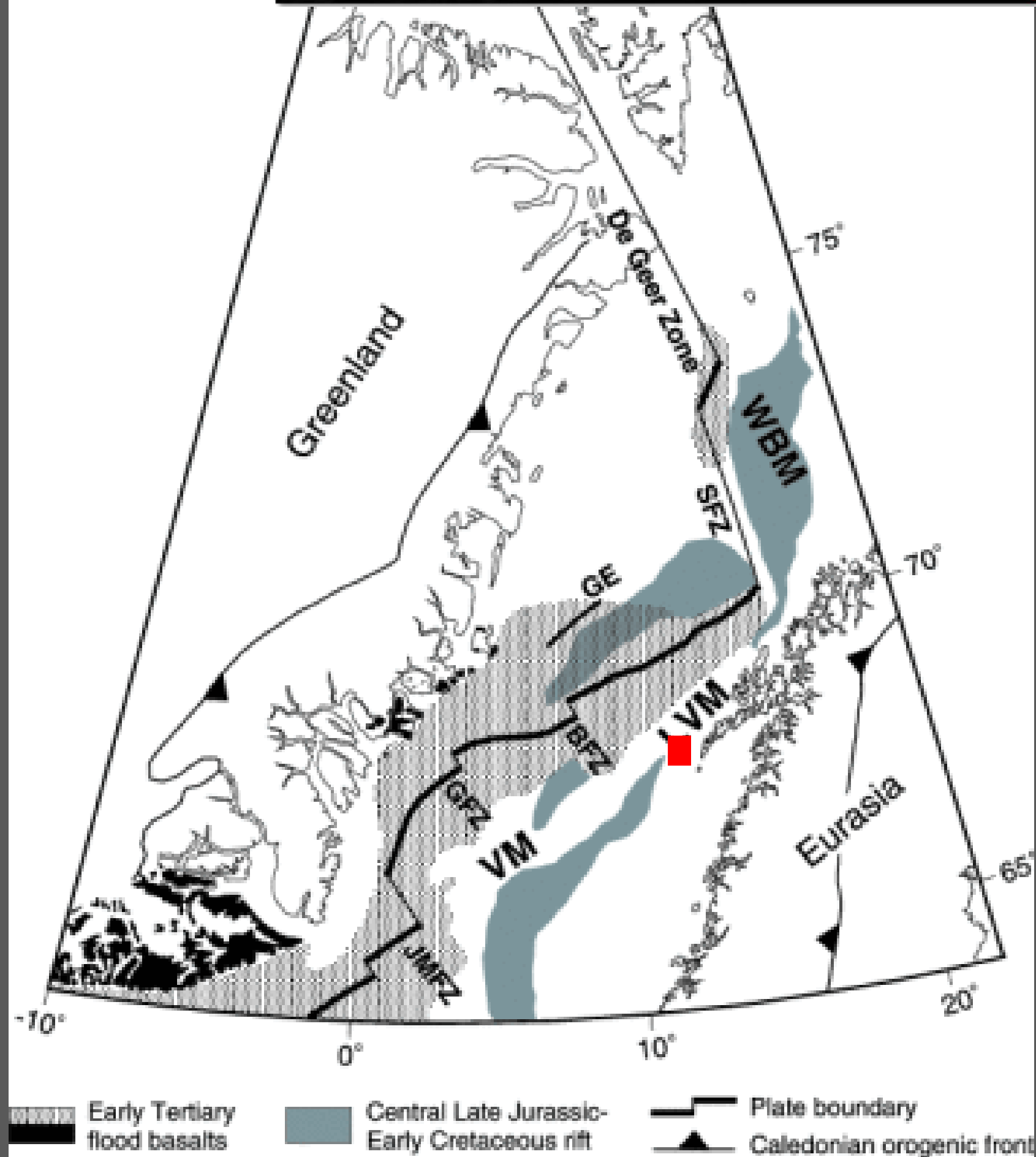
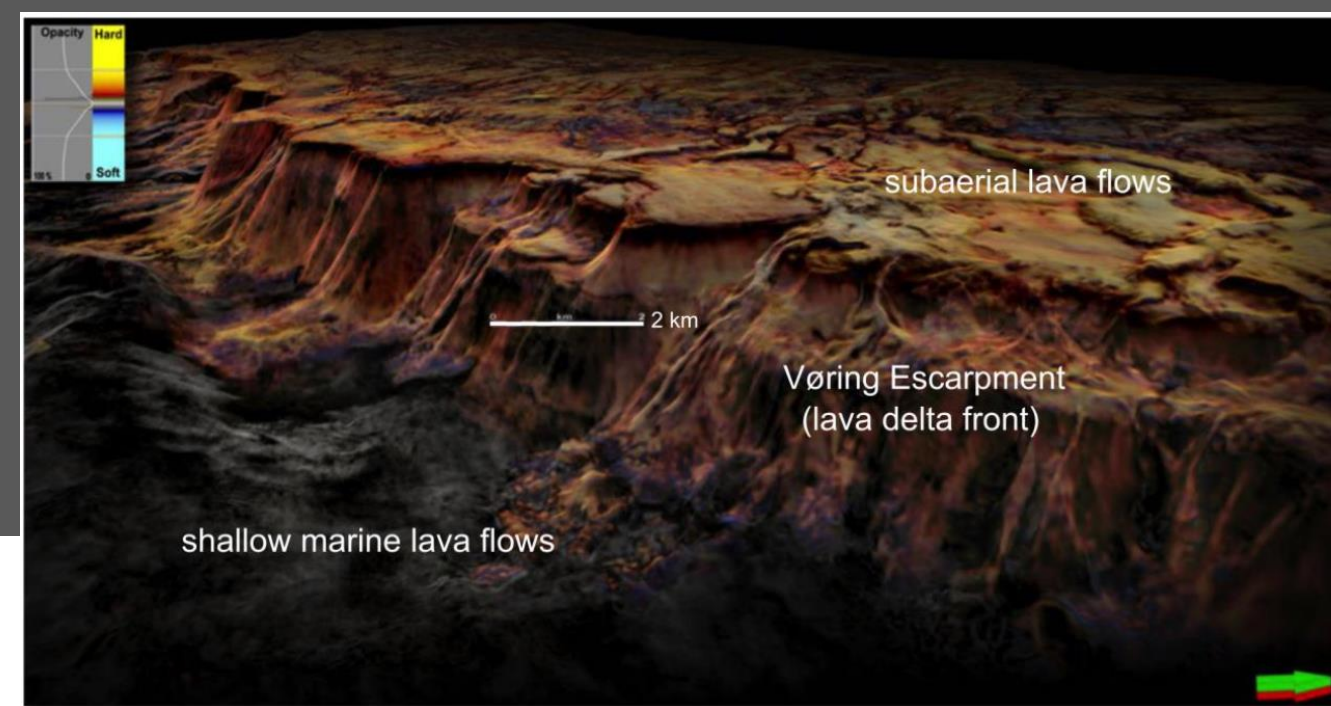
**Wei-Li Hong, Tobias Himmeler, Aivo Lepland,
Jochen Knies, and others**

Project is coordinated by:

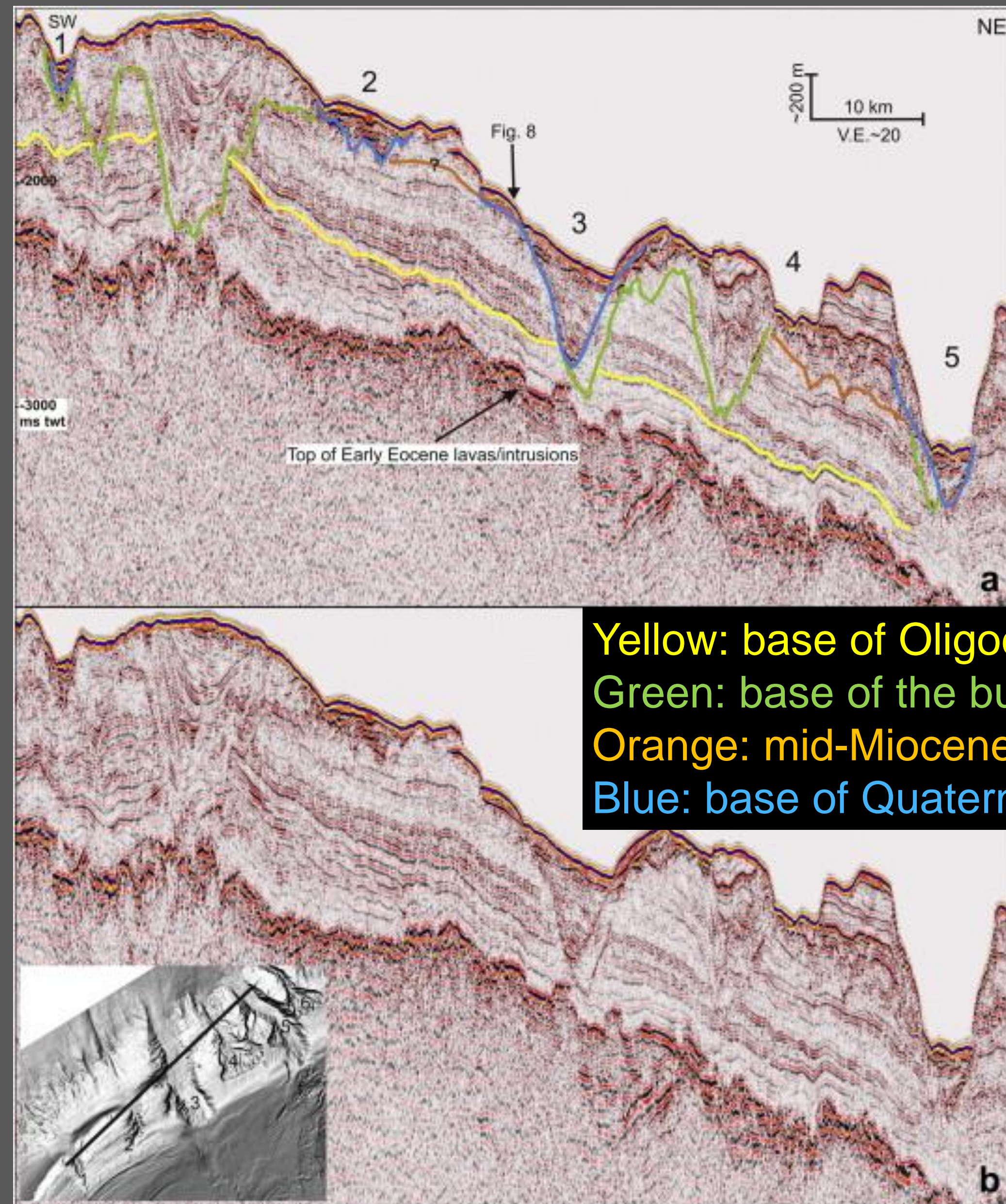
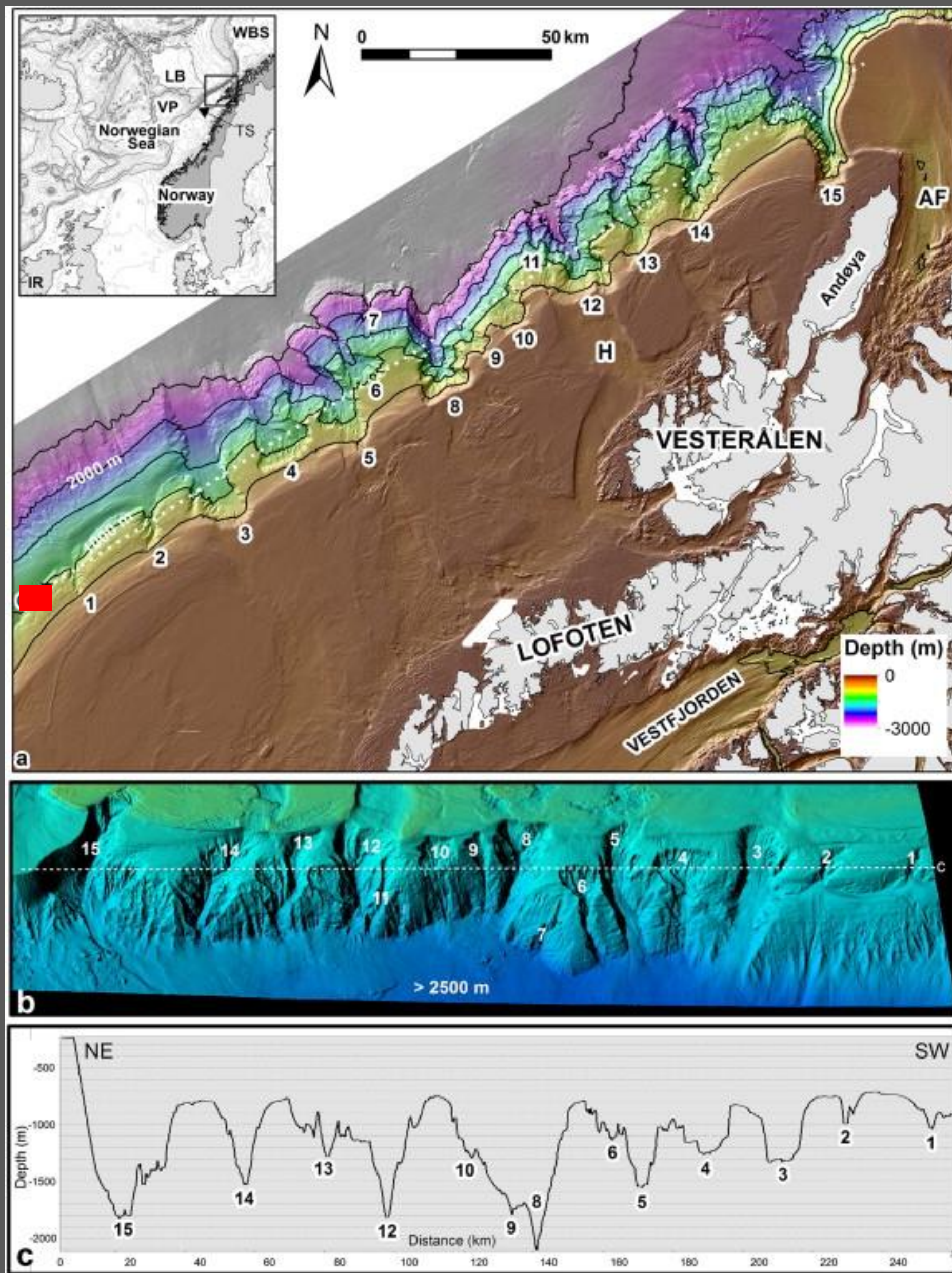


Project is implemented in partnership with:





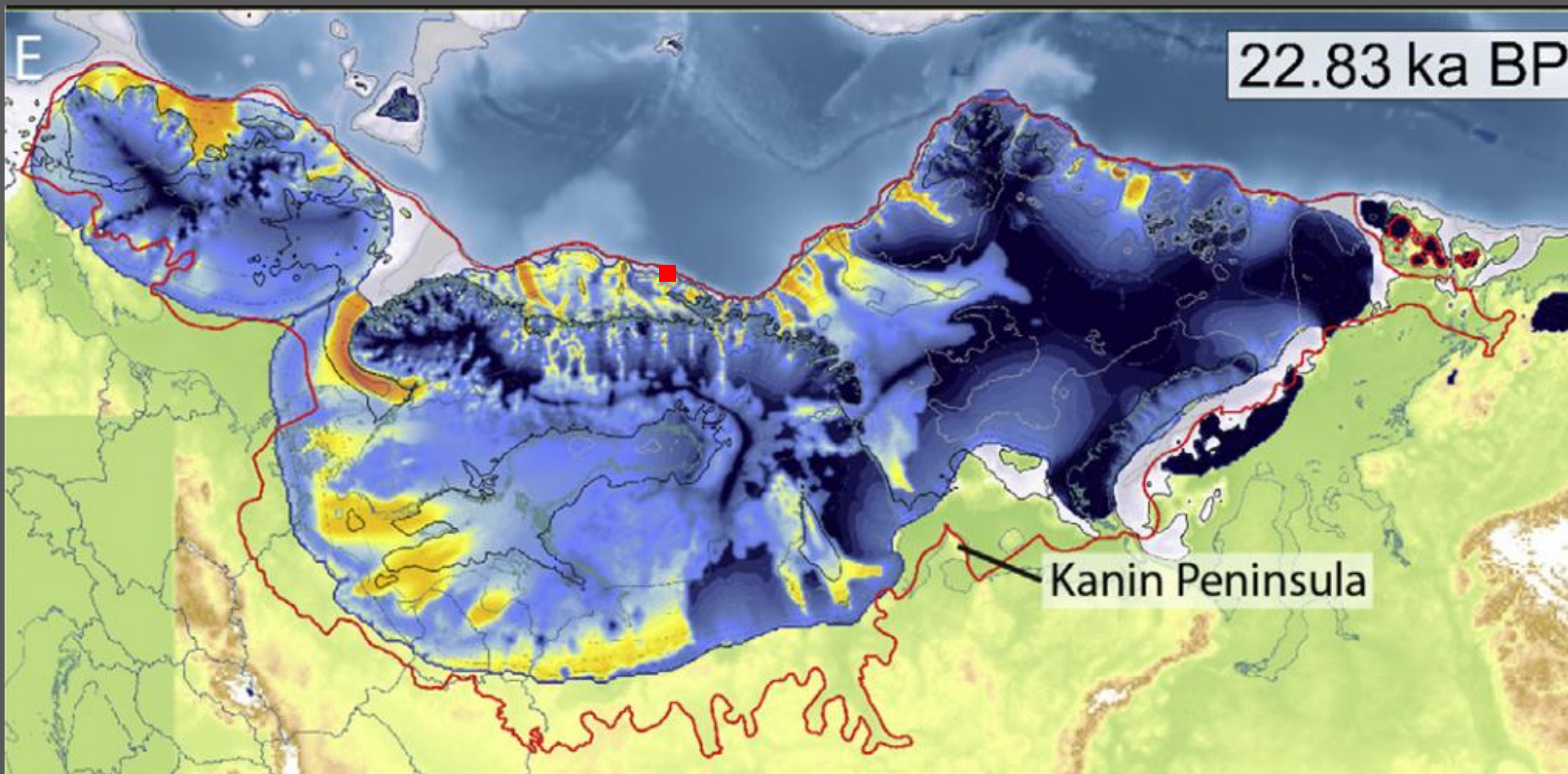
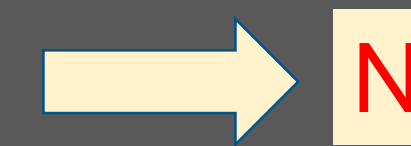
Tsikalas et al. (2001)



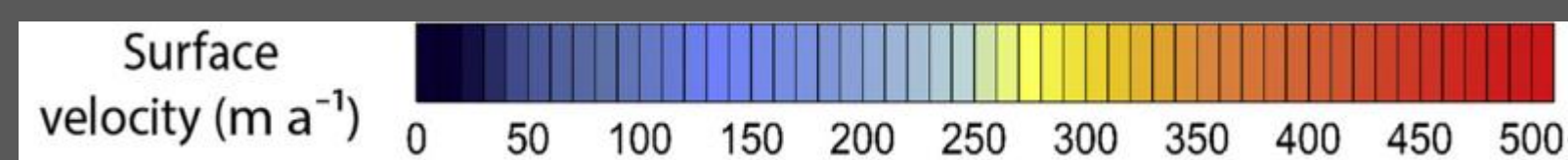
Yellow: base of Oligocene
 Green: base of the buried paleo-canyons
 Orange: mid-Miocene unconformity
 Blue: base of Quaternary deposits

Study area

Rise et al. (2013)



Patton et al. (2016)



 Study area





Image reproduced from the GEBCO world map 2014, www.gebco.net

 Study area

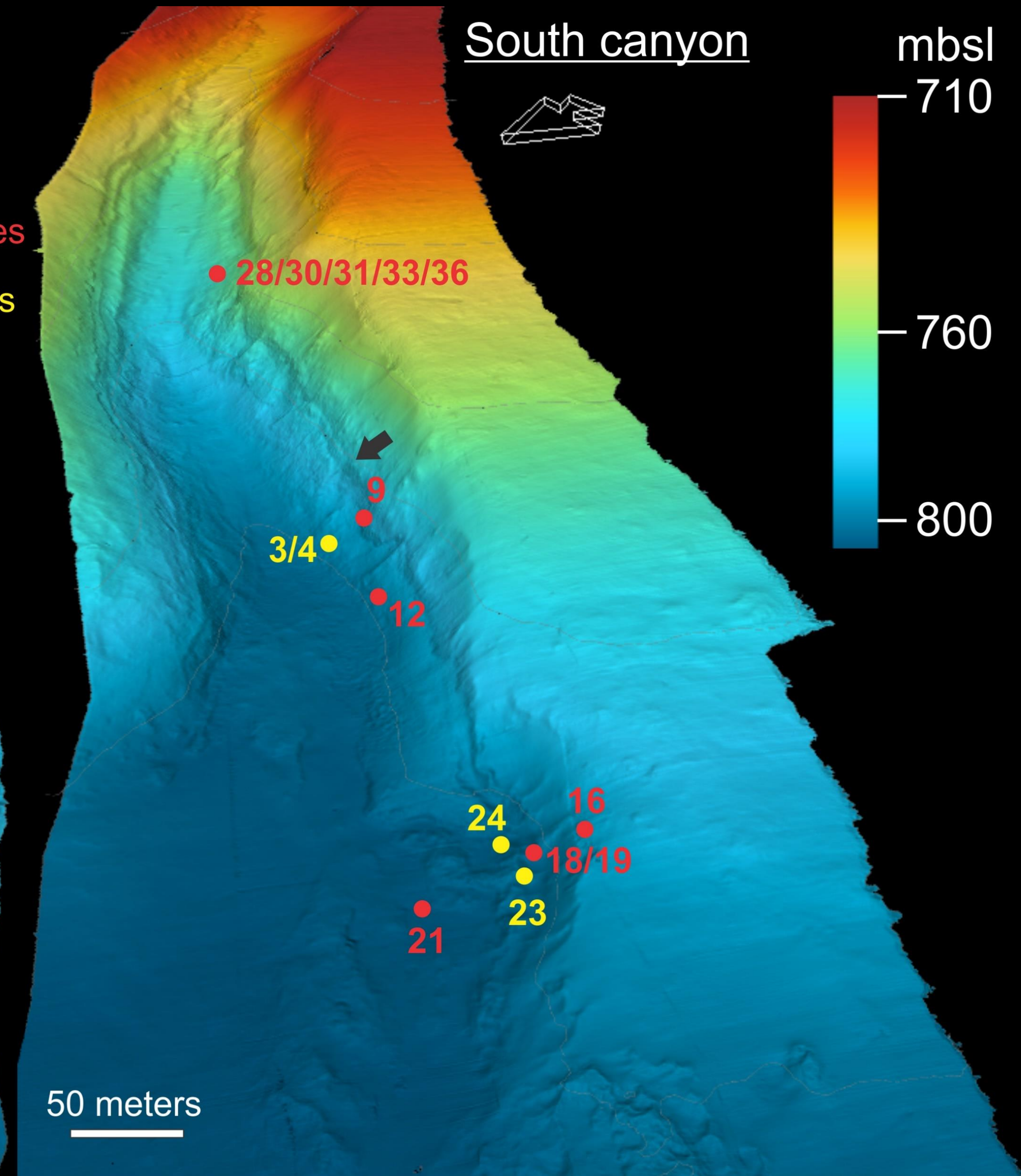
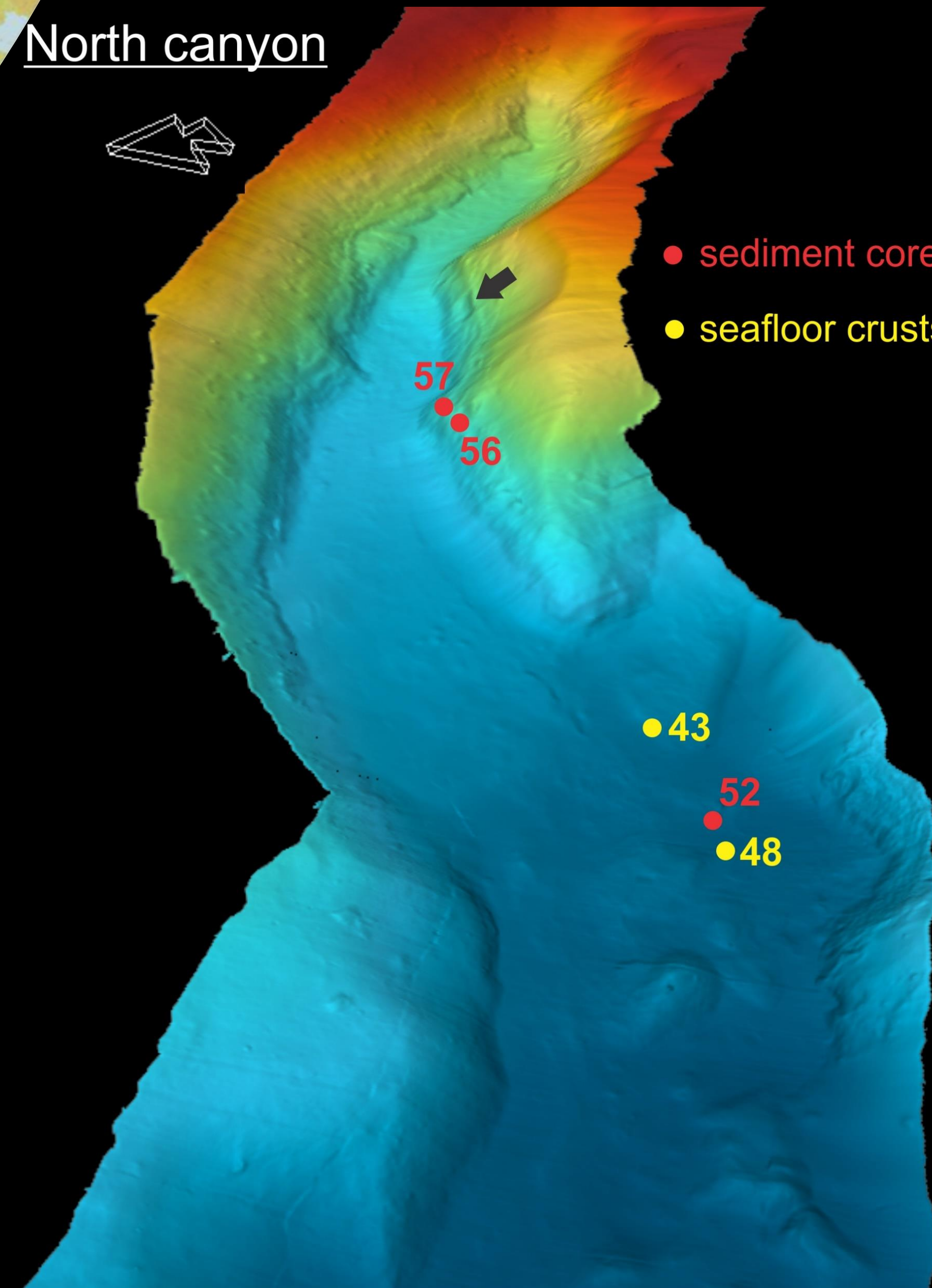
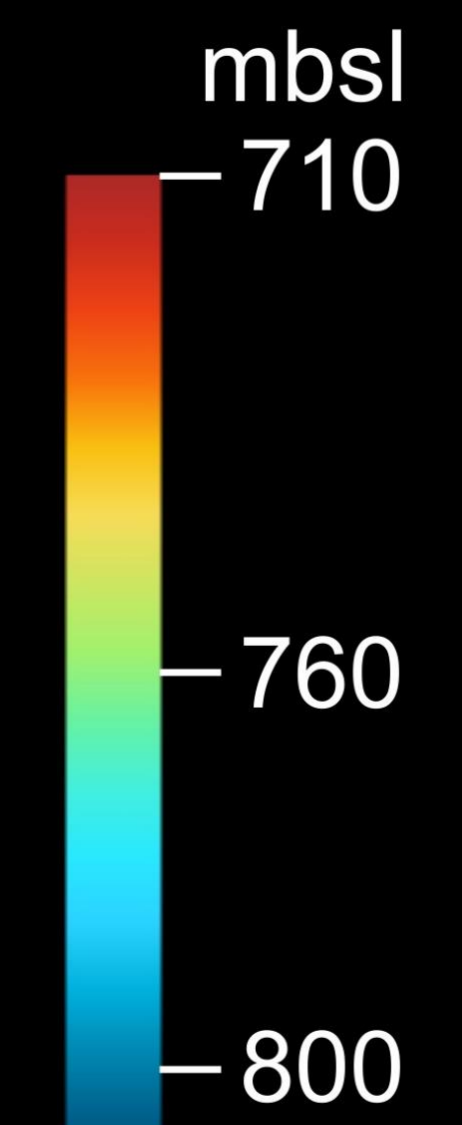
North canyon



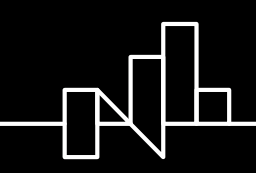
South canyon



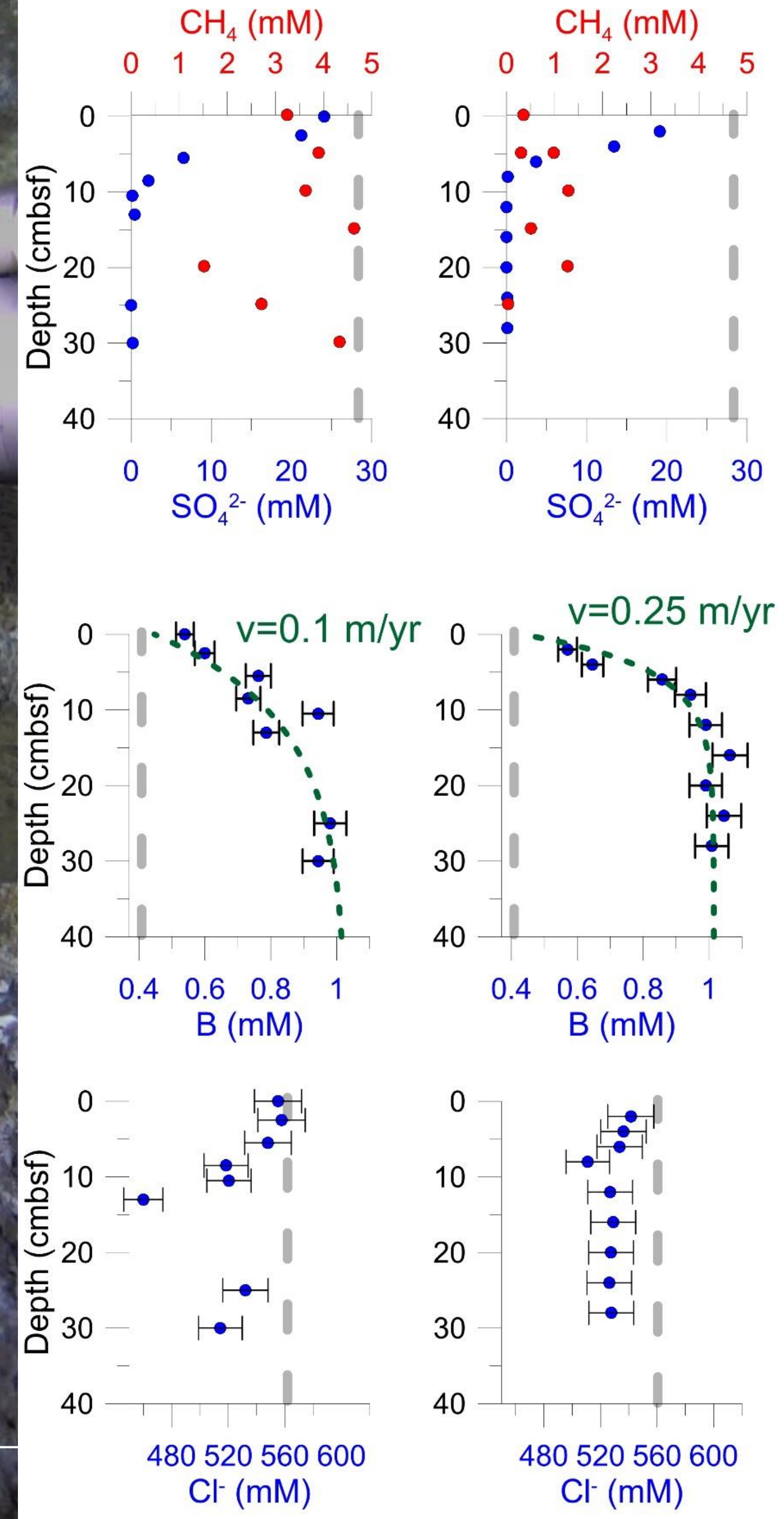
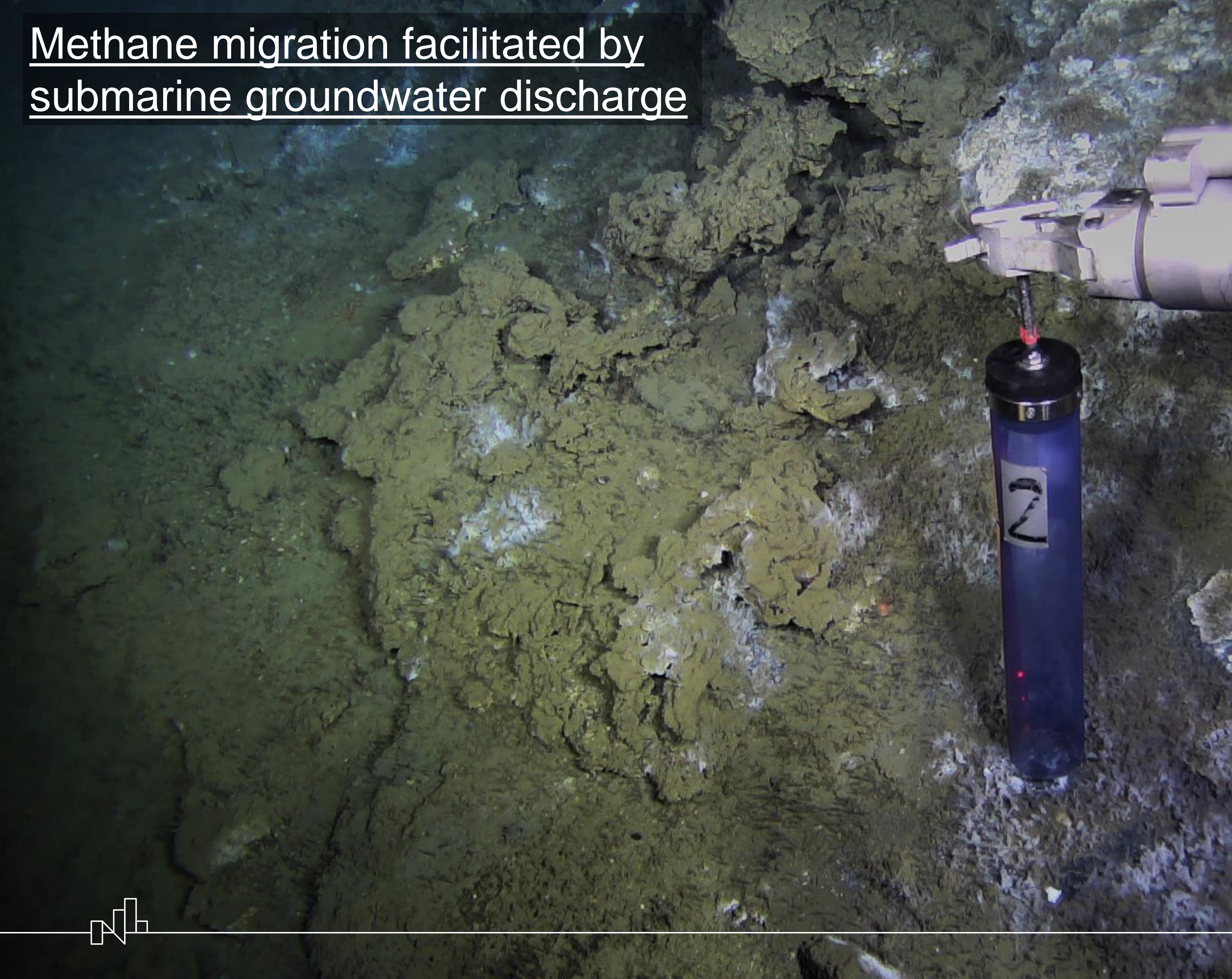
- sediment cores
- seafloor crusts



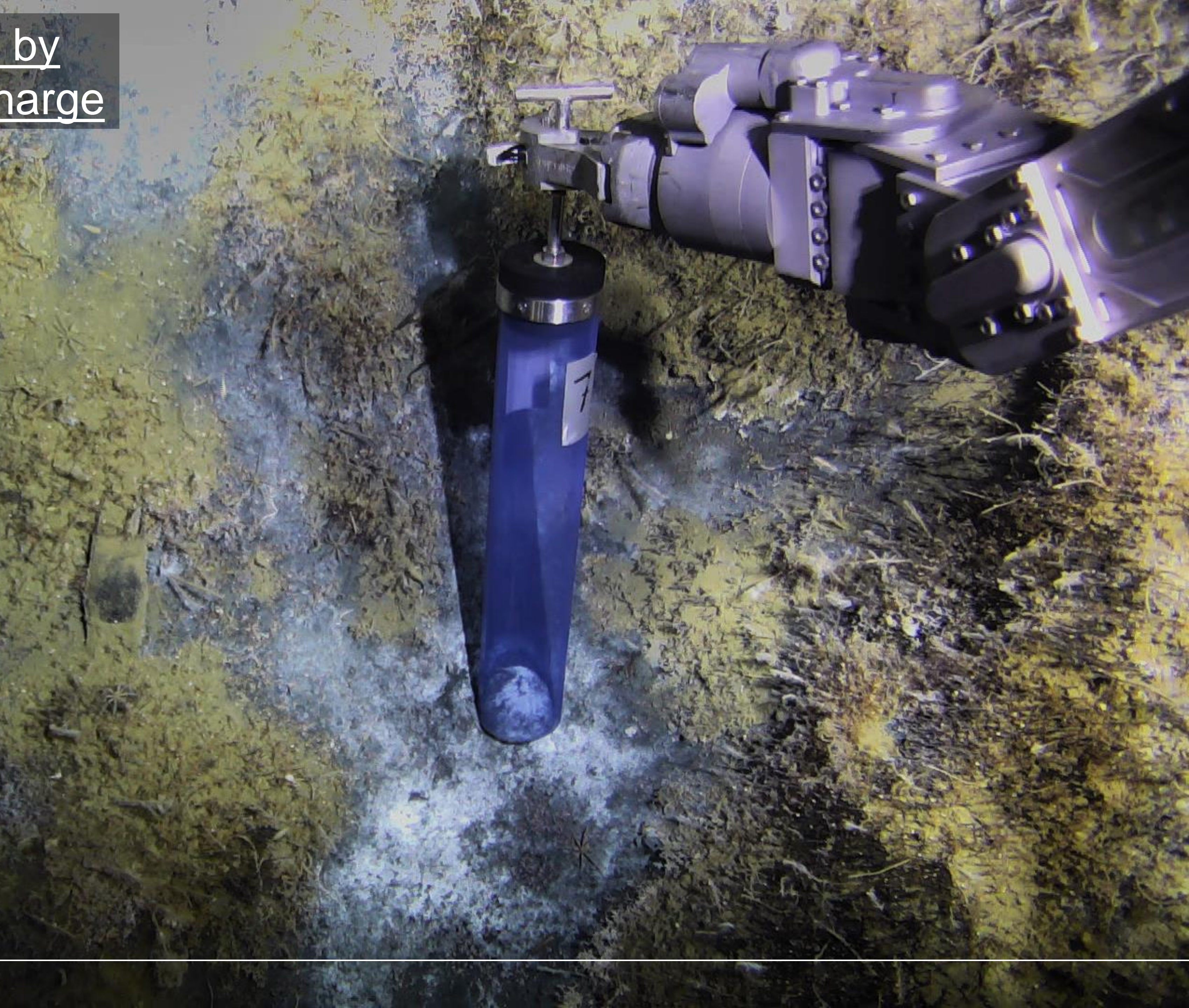
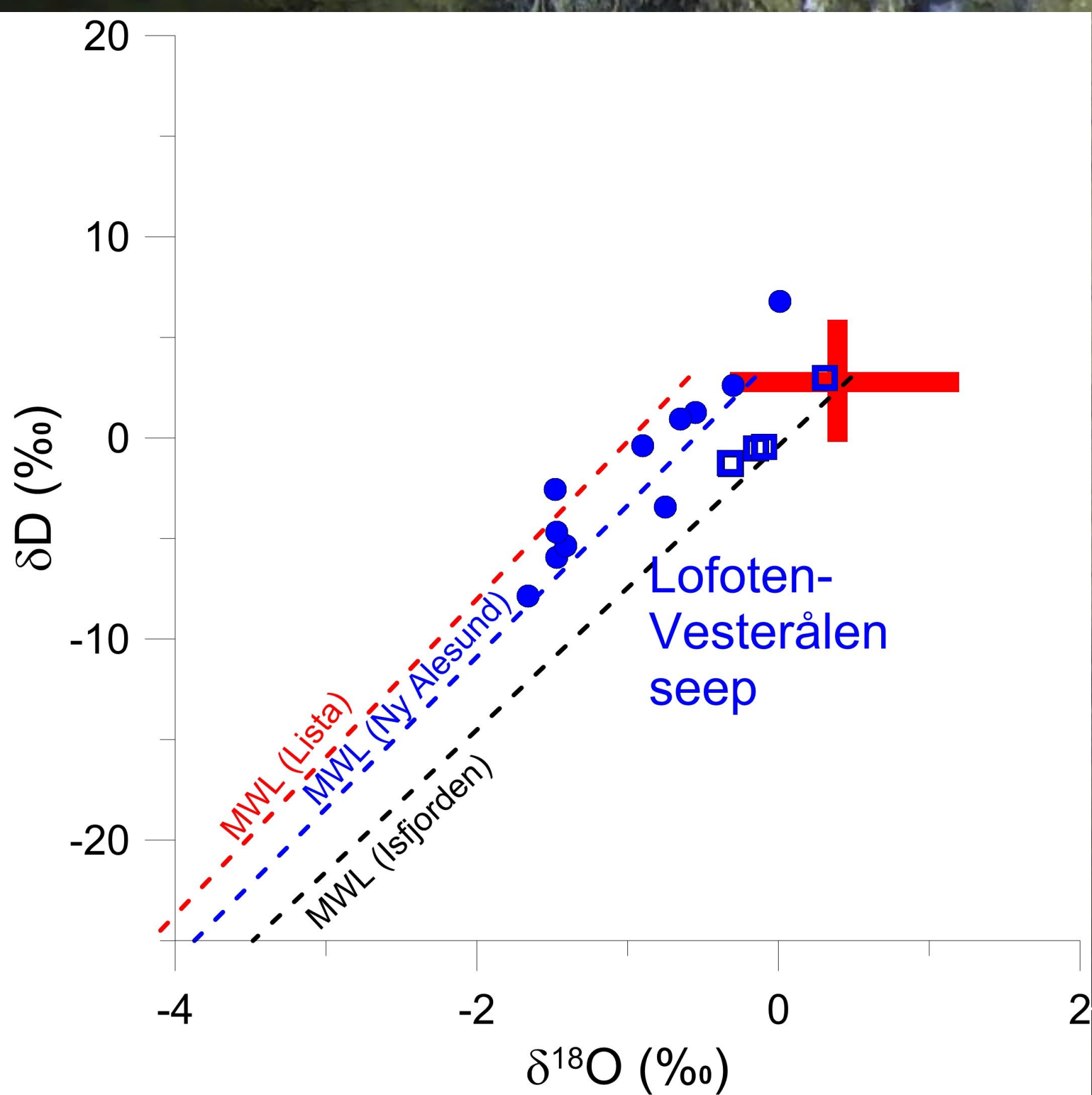
50 meters



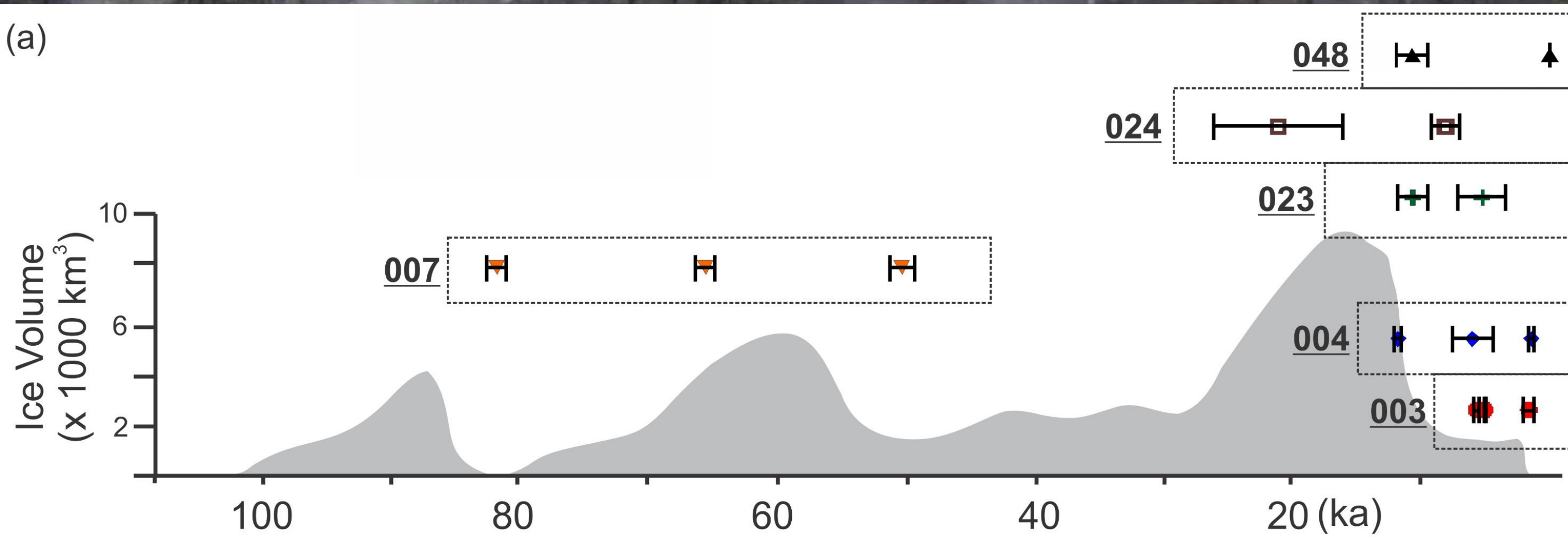
Methane migration facilitated by submarine groundwater discharge

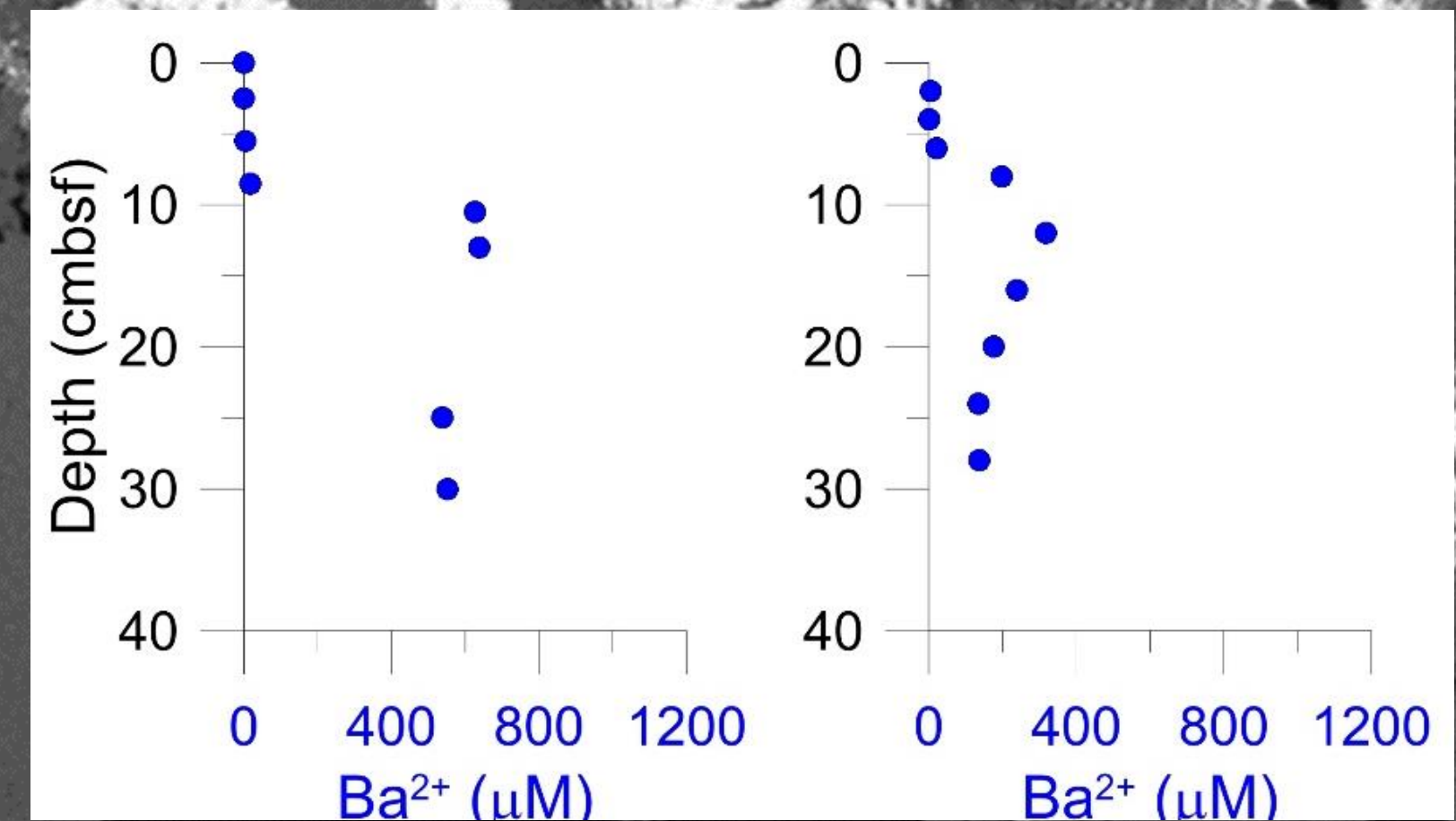
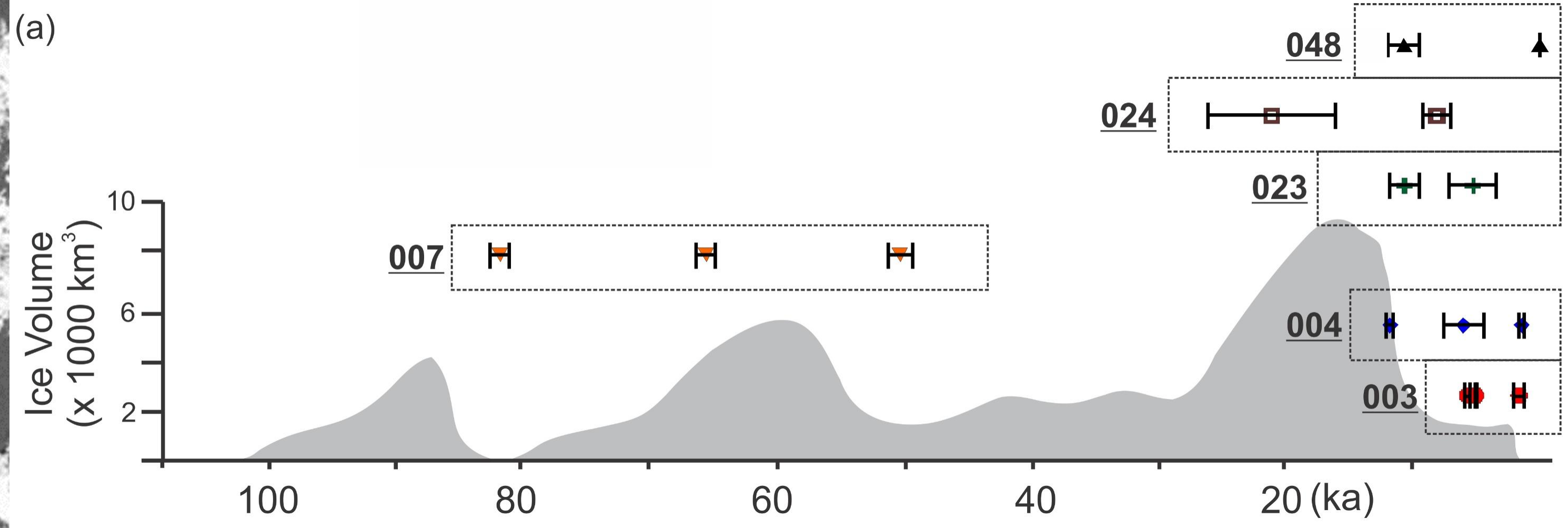
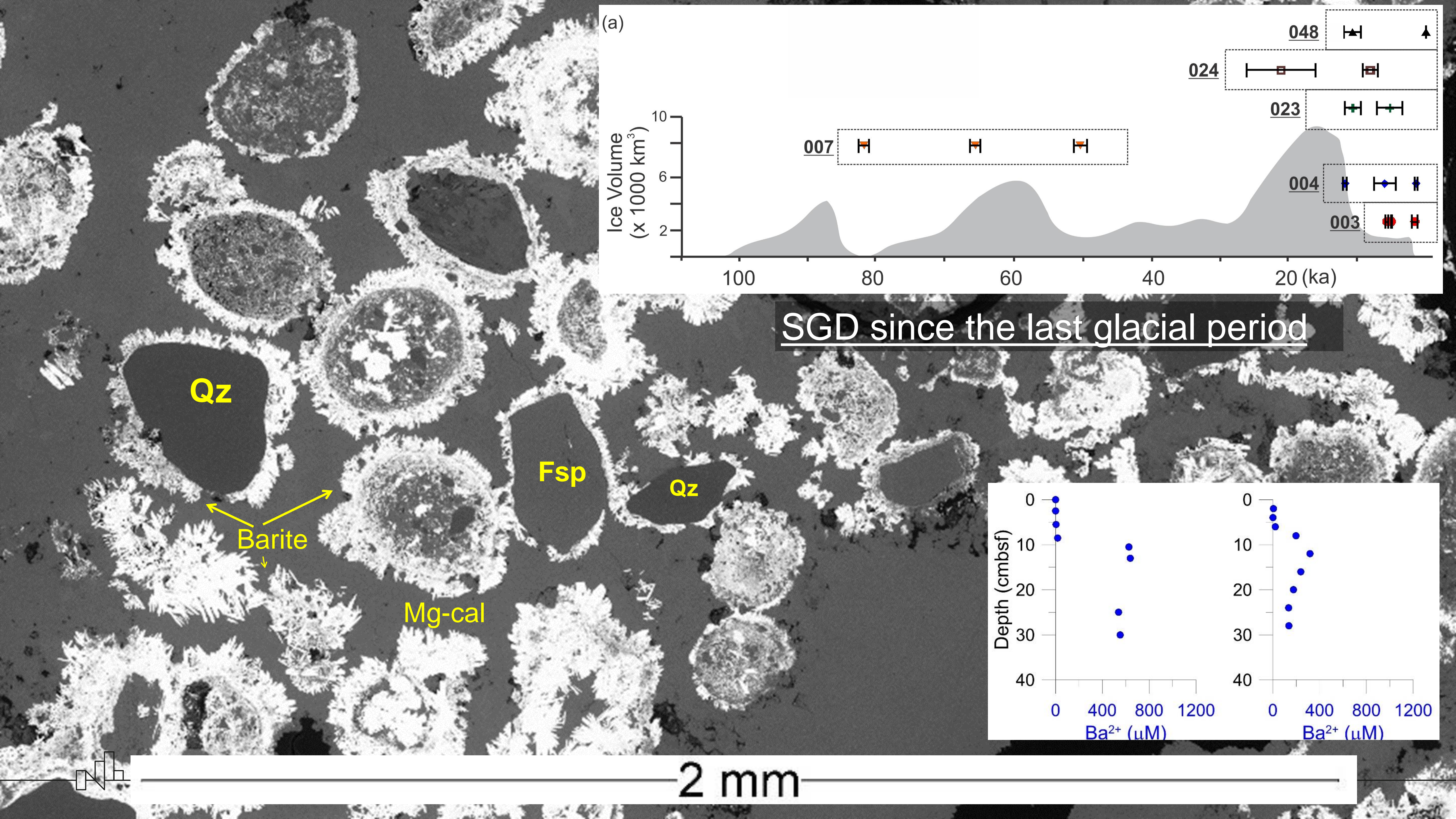


Methane migration facilitated by submarine groundwater discharge

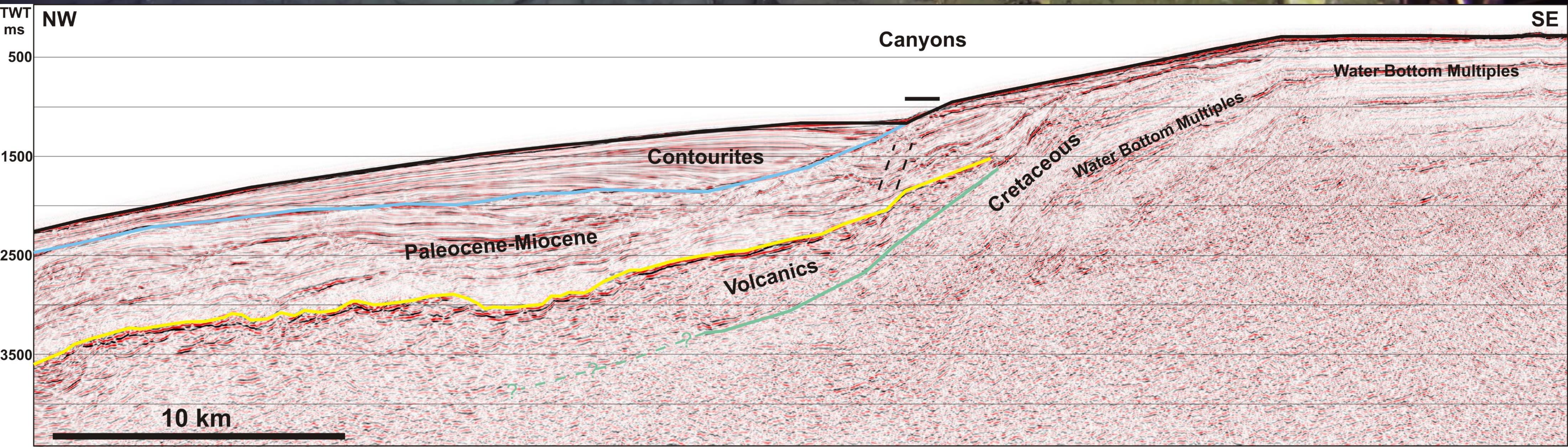


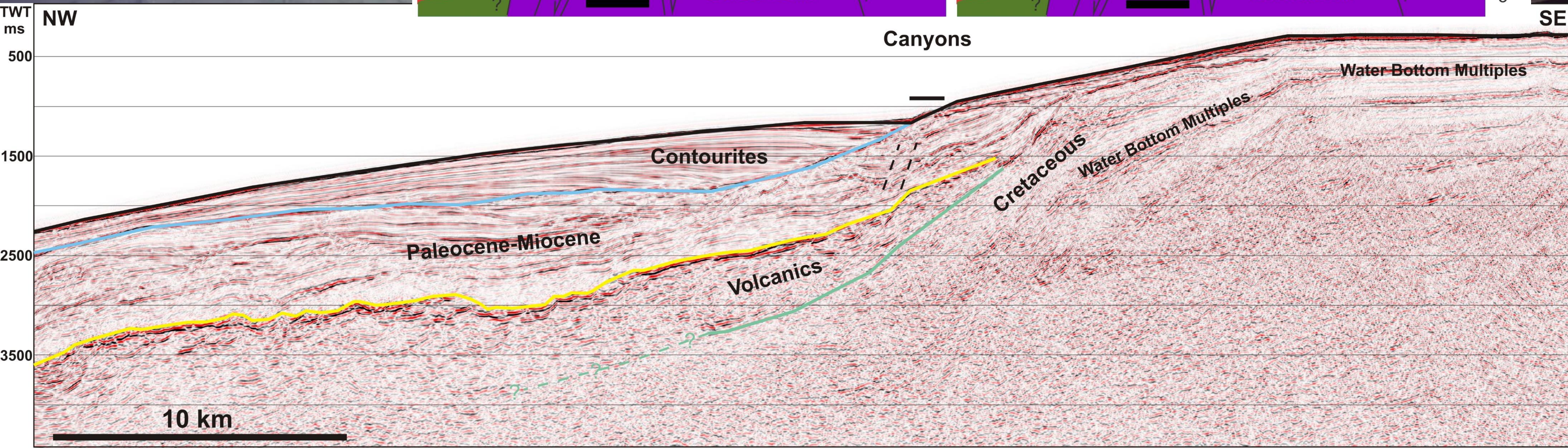
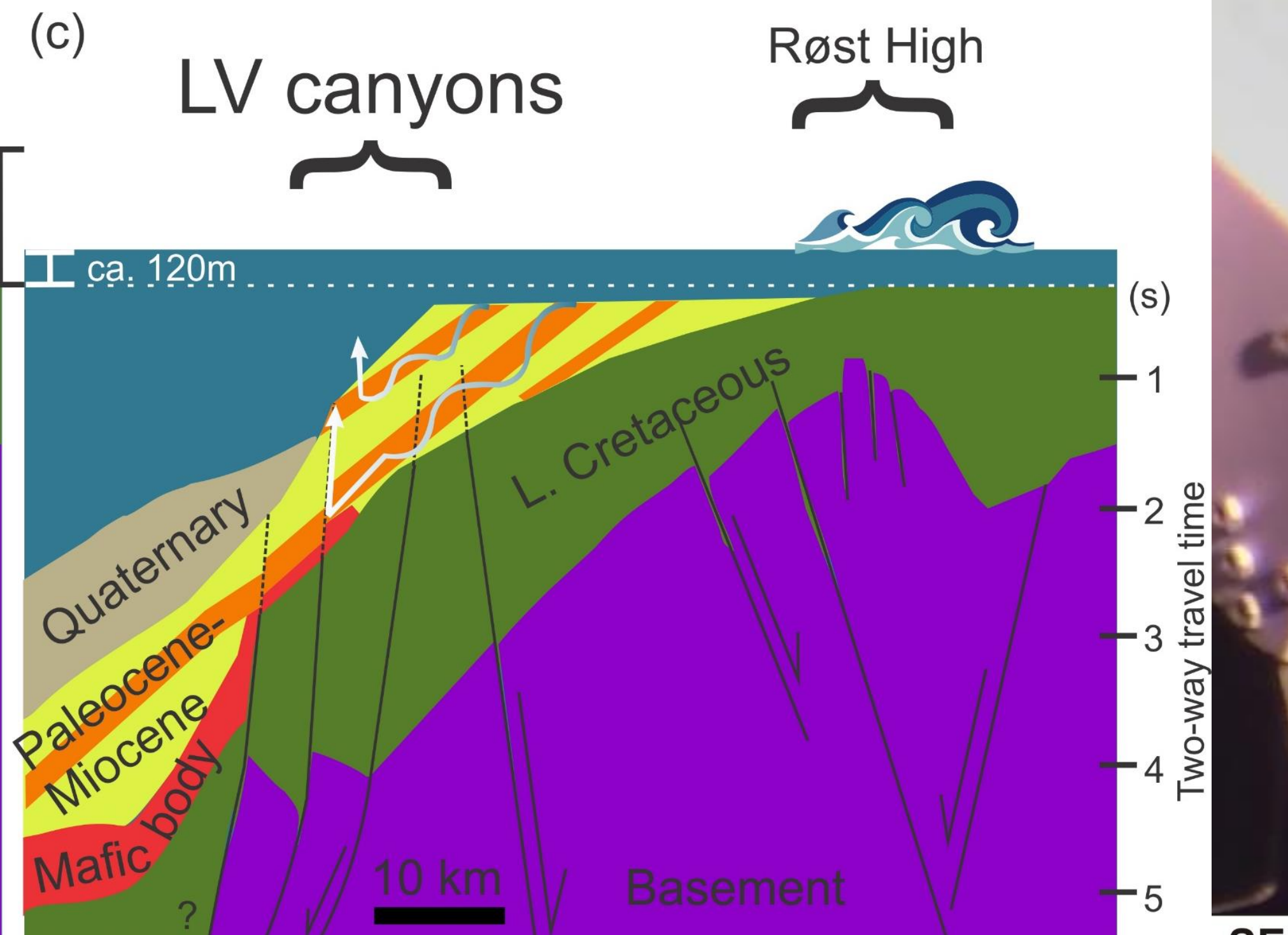
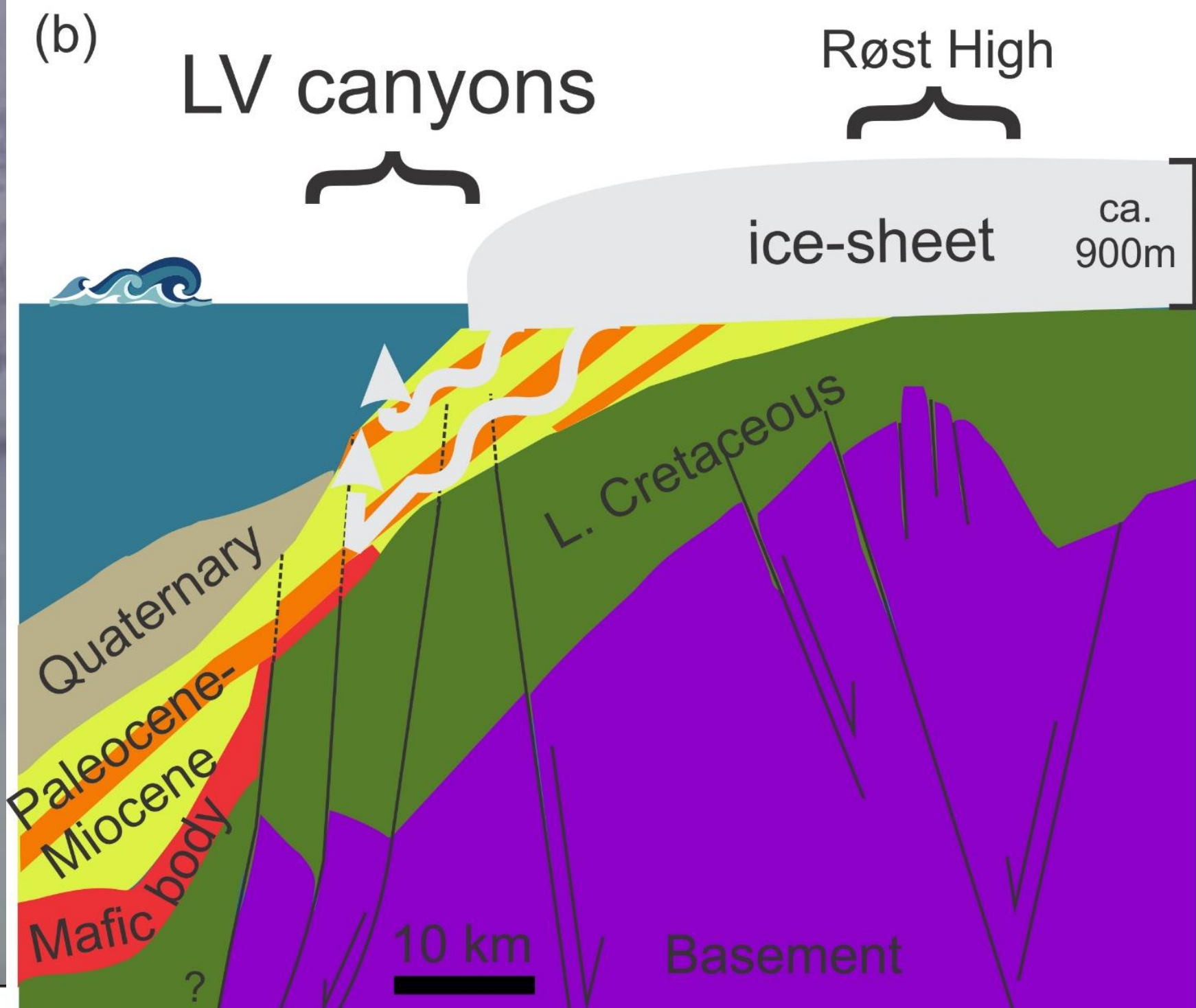
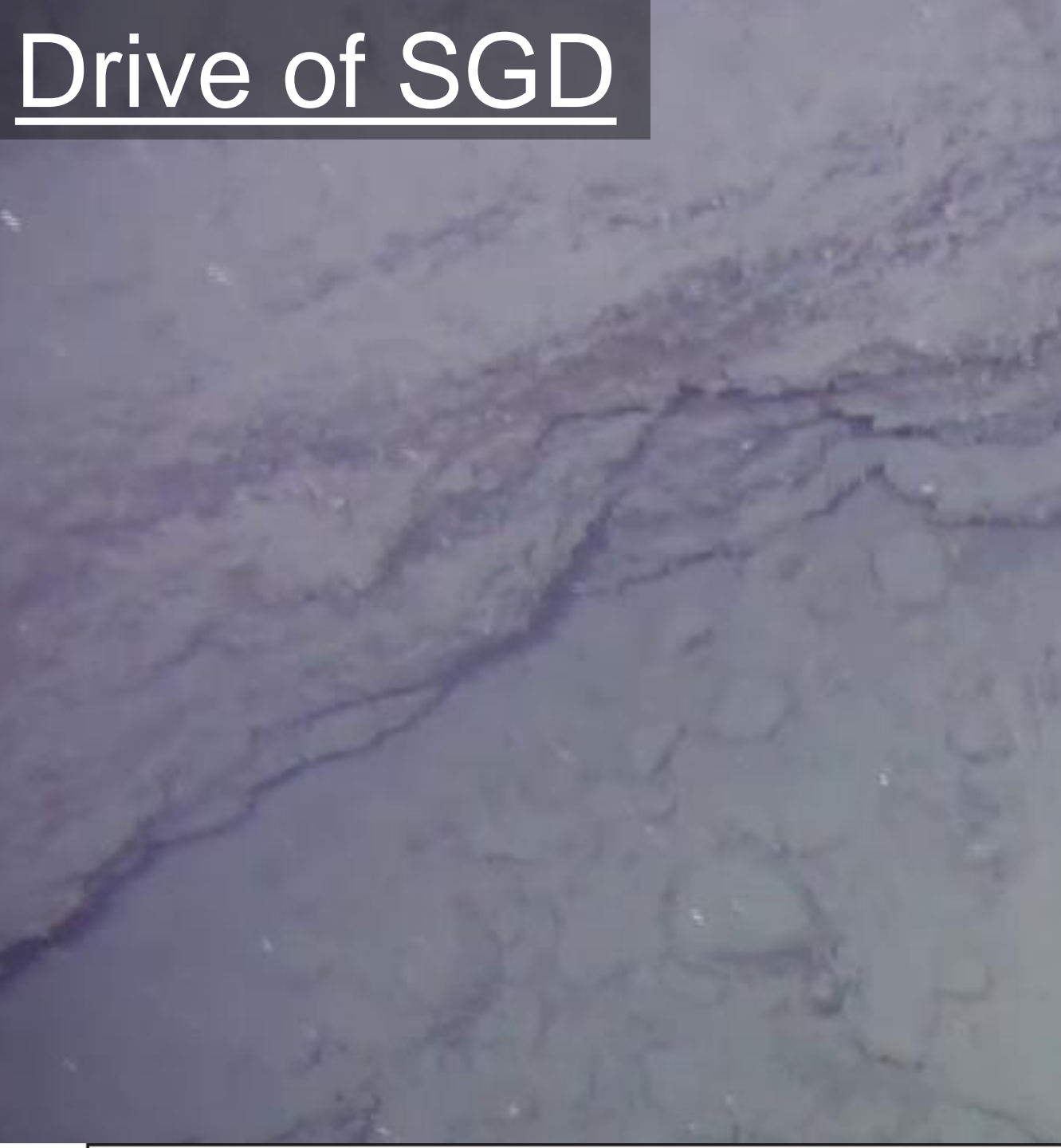
SGD since the last glacial period



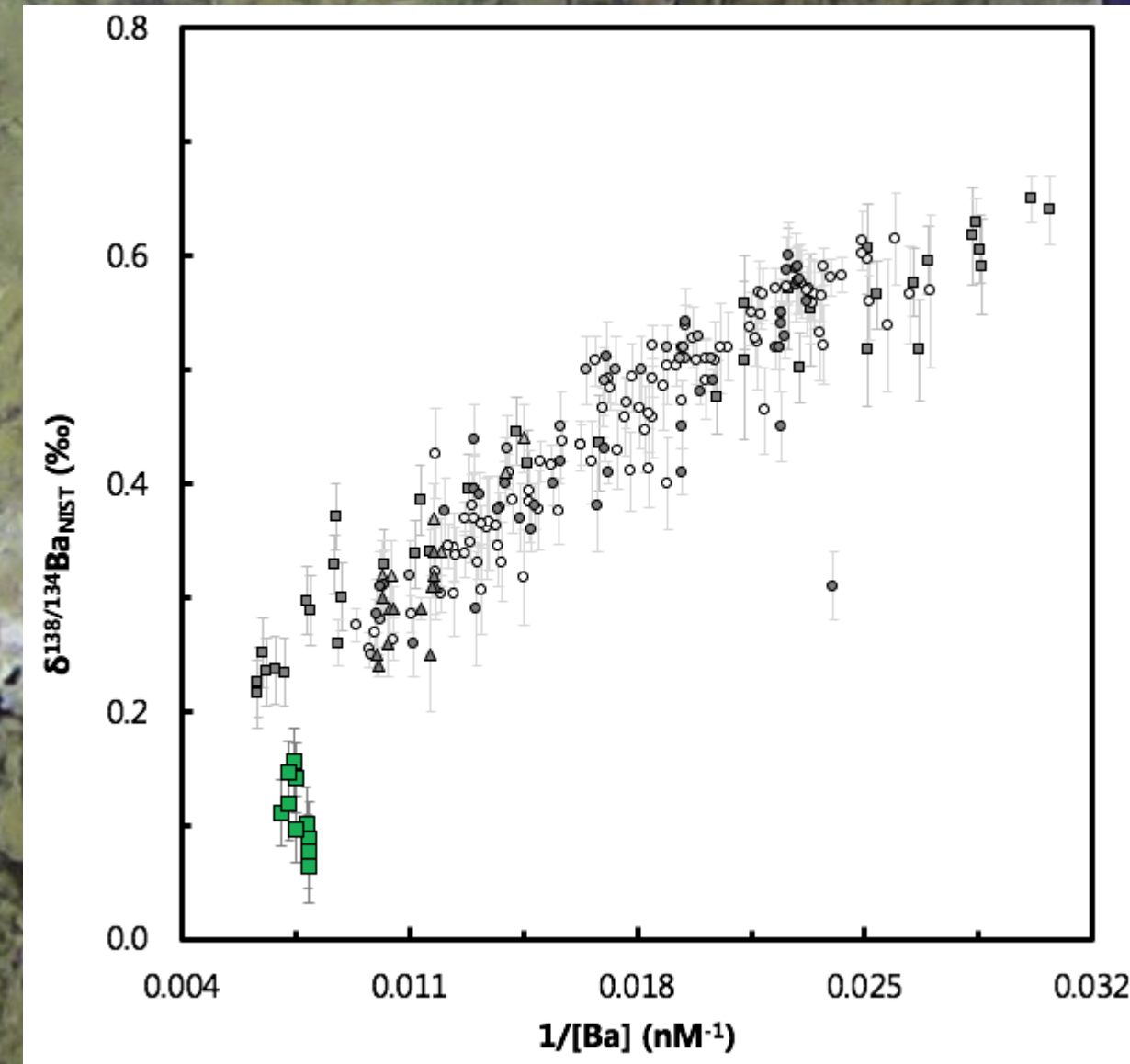
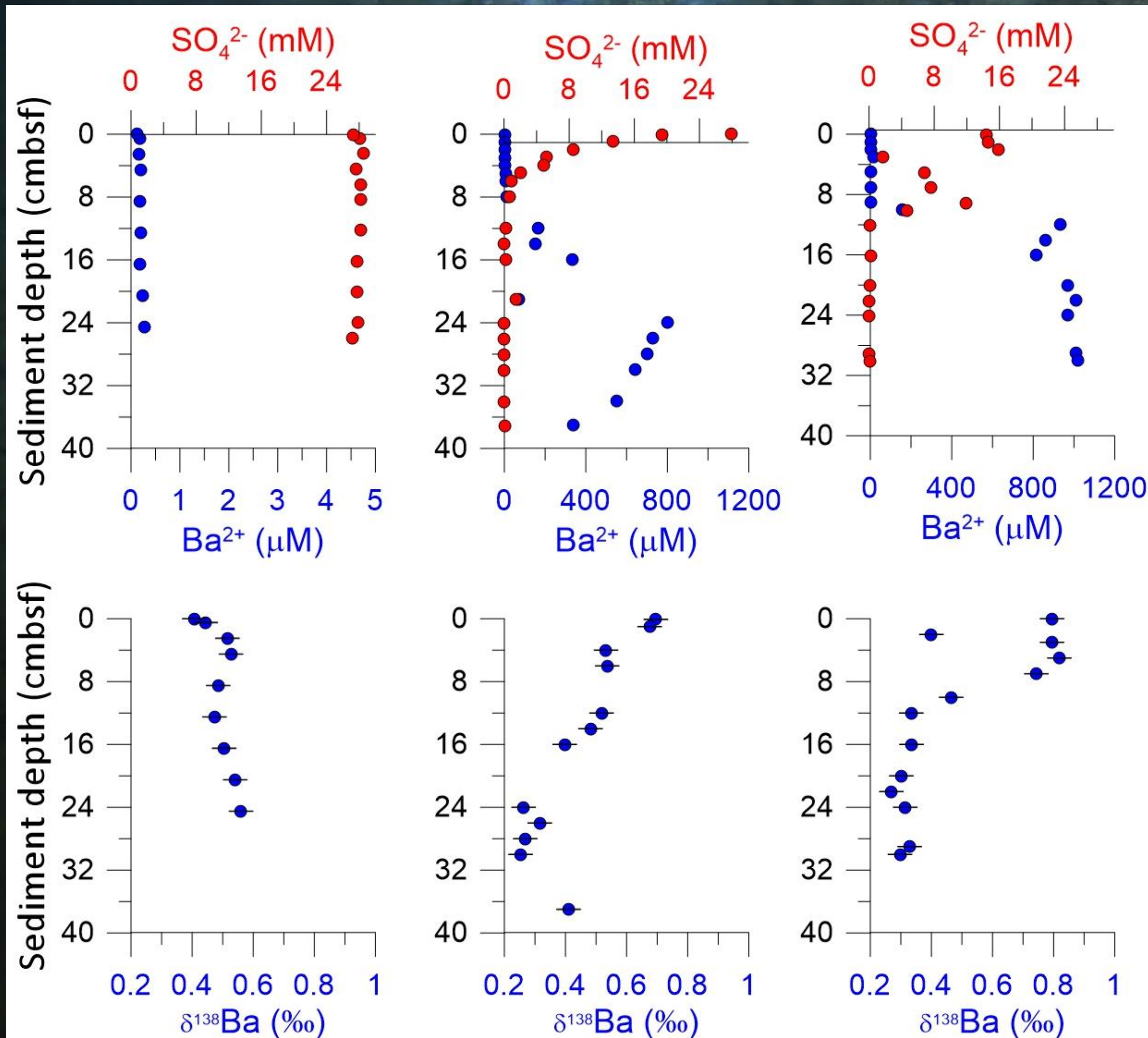


Drive of SGD

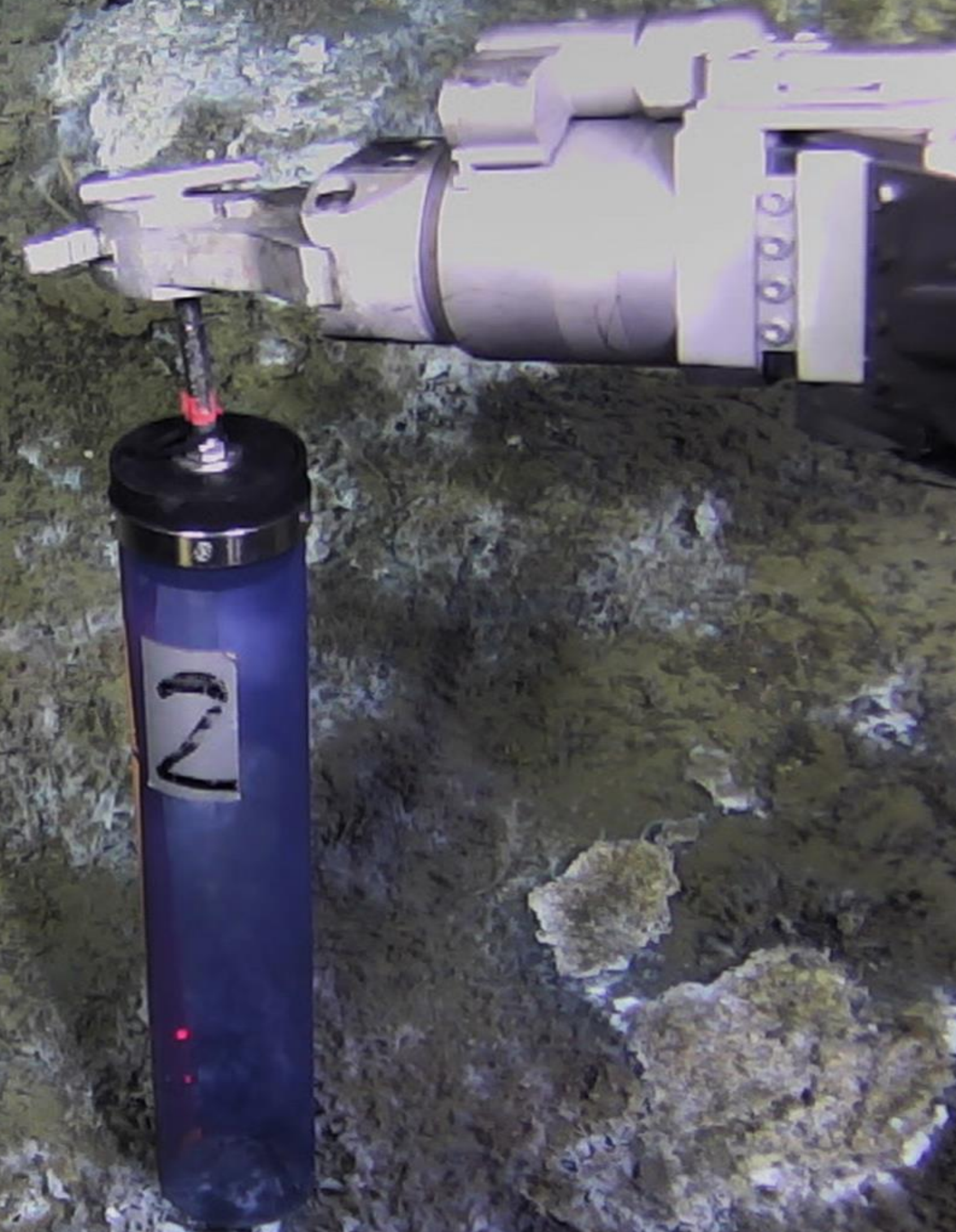
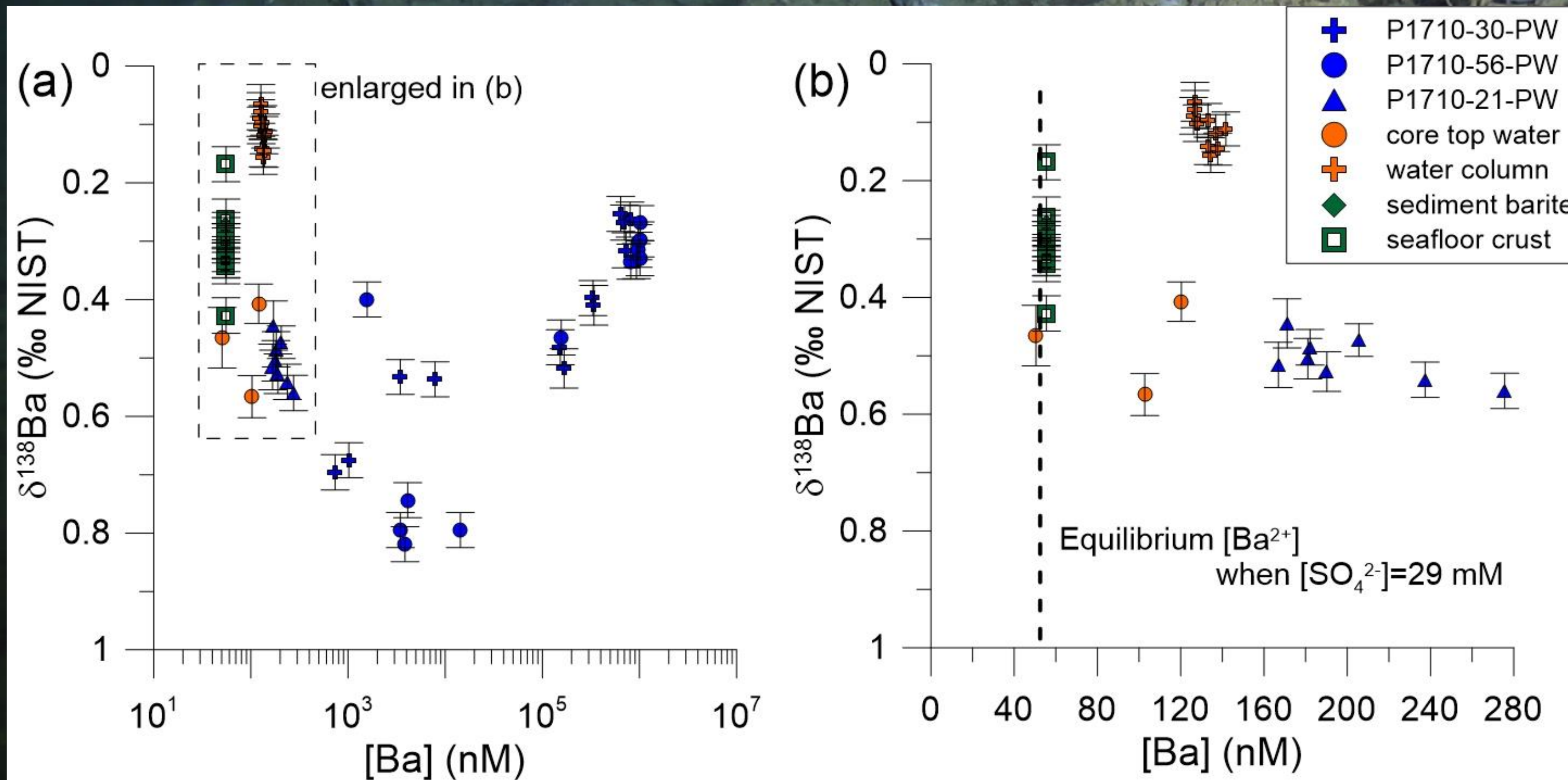




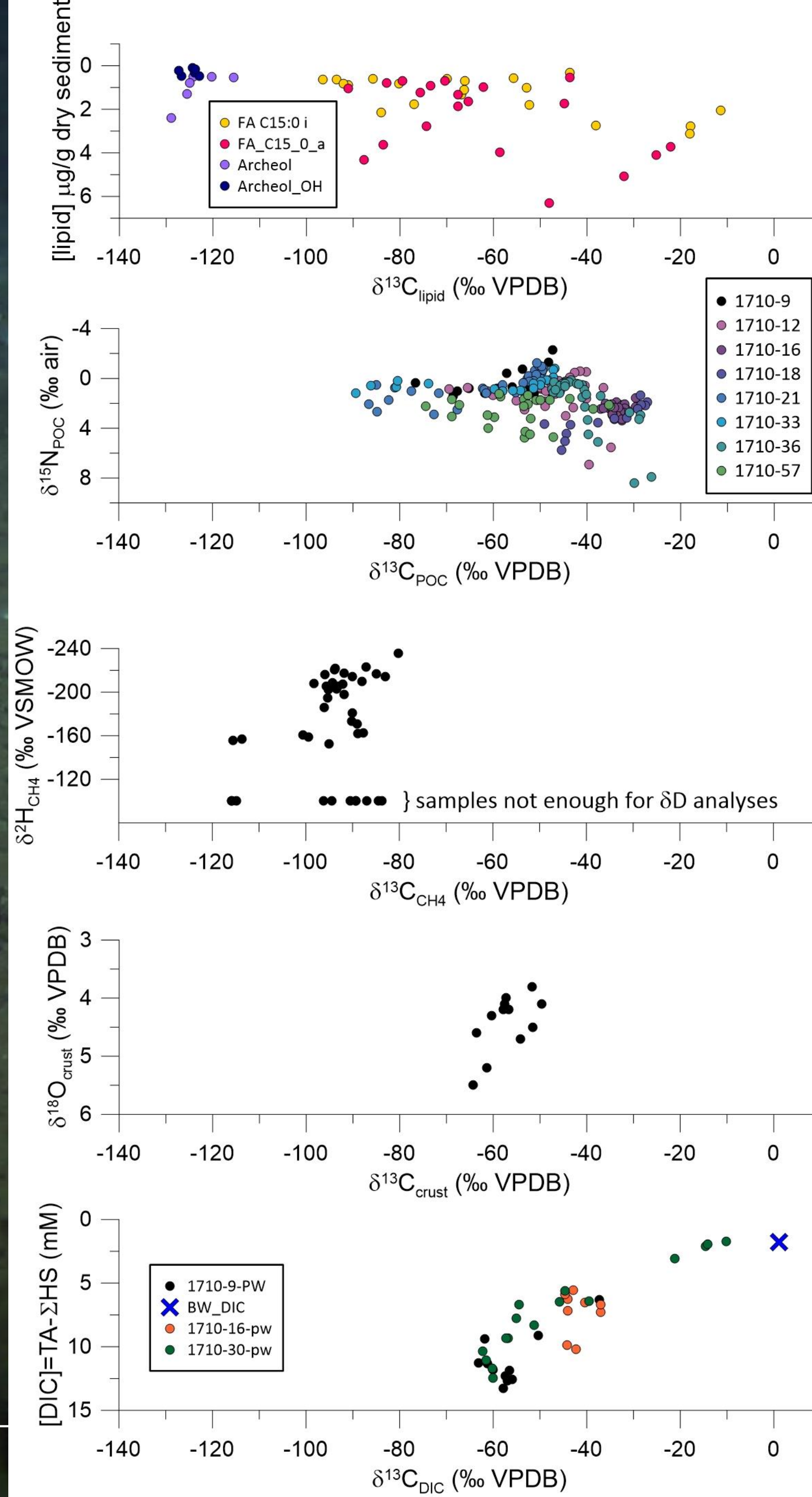
Potential consequences of SGD?



Potential consequences of SGD?



Potential consequences of SGD?



Thank you!

**Project financed by the Norwegian Financial Mechanism 2014–2021 (85%) and national co-financing (15%) within
GRIEG Programme
"Submarine Groundwater Discharge in a Changing Arctic Region: Scale and Biogeochemical impact"
Project No. 2019/34/H/ST10/00645**

www.eeagrants.org
Facebook, Twitter, LinkedIn, Instagram
YouTube: EEANorwayGrants
Mail: info-fmo@efta.int

Programme Operator: