

## Supplementary files

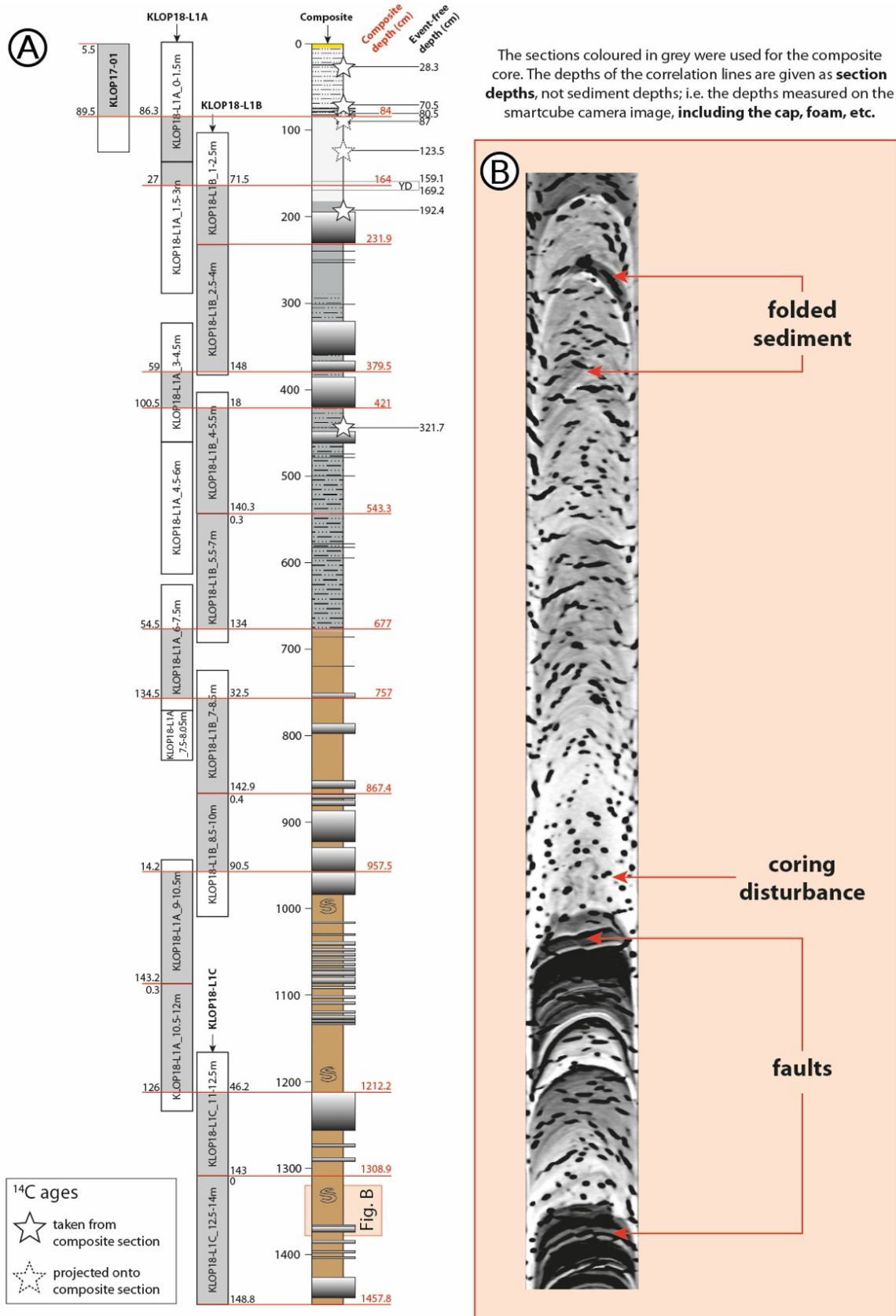
### **Contrasting sedimentary and long-lasting geochemical imprints of seismic shaking in a small, groundwater-fed lake basin (Klopeiner See, Eastern European Alps)**

Christoph Daxer<sup>1</sup>, Katleen Wils<sup>1,2</sup>, Arne Ramisch<sup>1</sup>, Michael Strasser<sup>1</sup>, Jasper Moernaut<sup>1\*</sup>

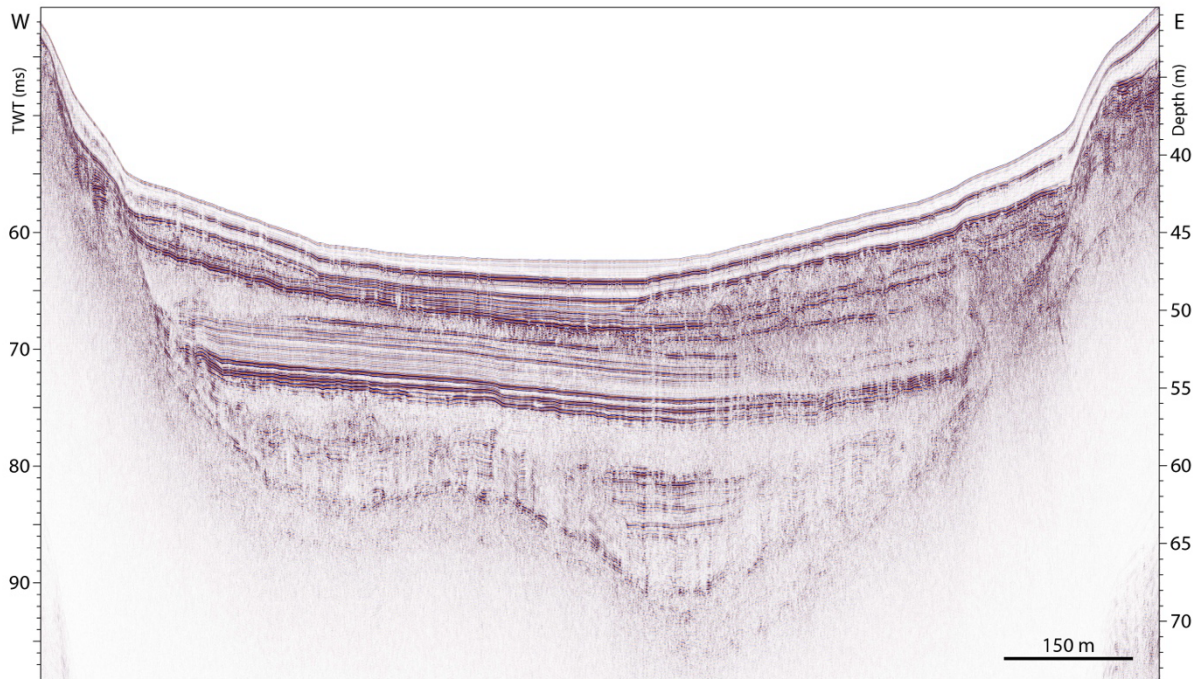
<sup>1</sup>Sedimentary Geology Research Group, Institute of Geology, University of Innsbruck (Austria)

<sup>2</sup>Renard Centre of Marine Geology, Department of Geology, Ghent University (Belgium)

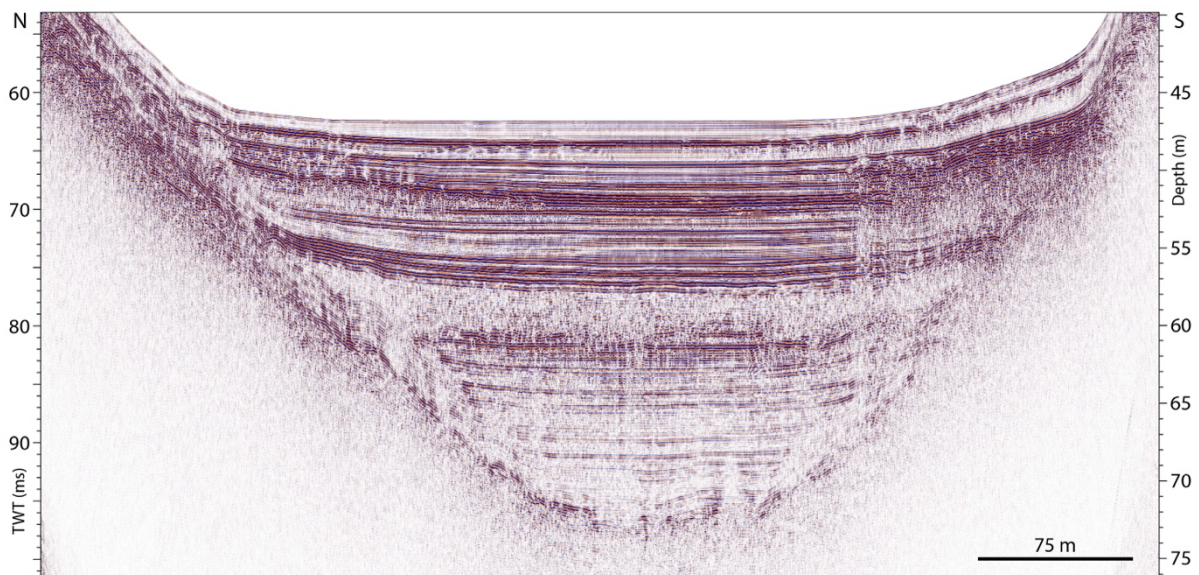
\*Correspondence concerning this article should be addressed to Jasper Moernaut, University of Innsbruck, Innrain 52f, 6020 Innsbruck  
Email: [Jasper.Moernaut@uibk.ac.at](mailto:Jasper.Moernaut@uibk.ac.at)



**Supplementary Figure 1: A)** Detailed description of the composite core section of KLOP18-L1. **B)** CT scan of potentially folded and faulted sediment at ~1350 cm composite core depth.

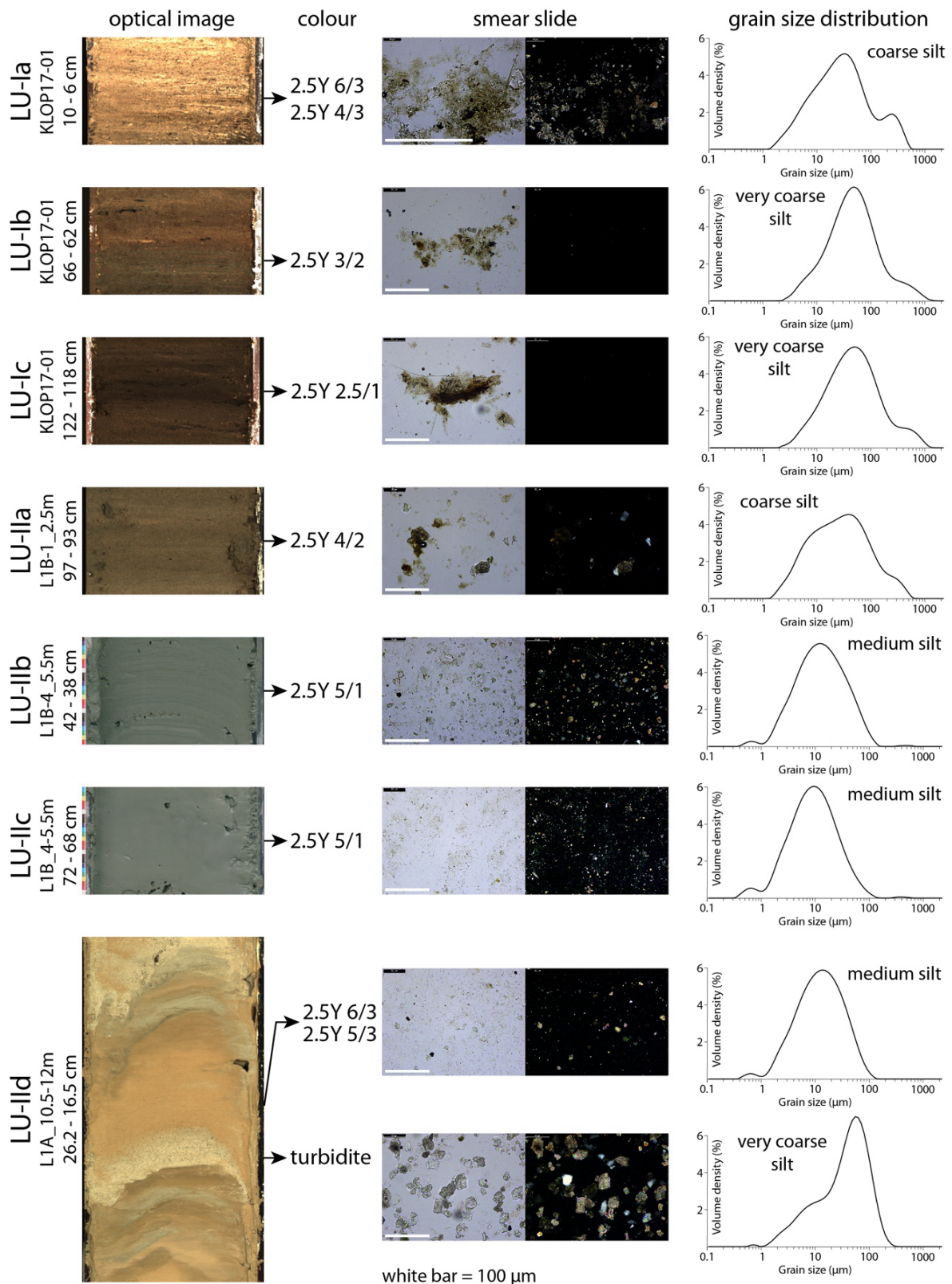


**Supplementary Figure 2:** Uninterpreted seismic profile along the lake axis (Fig. 2B).



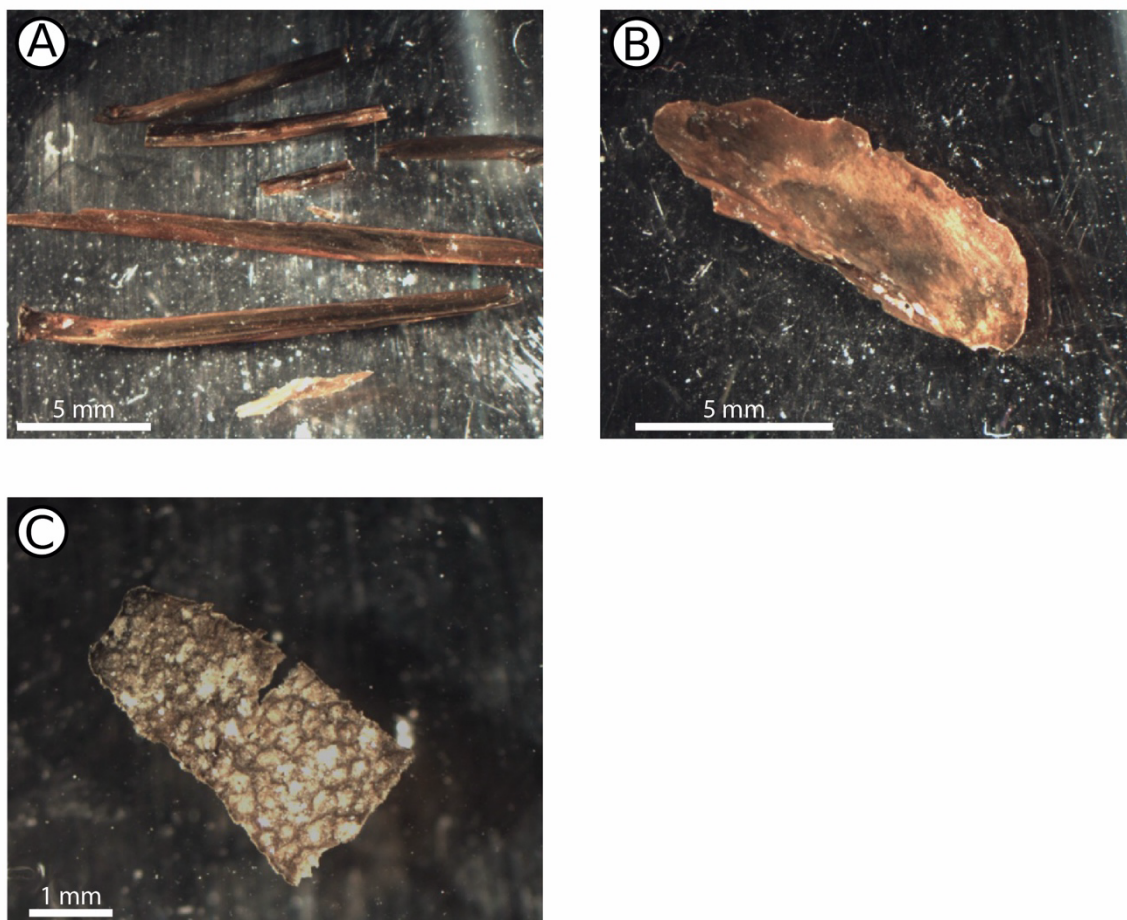
**Supplementary Figure 3:** Uninterpreted seismic profile perpendicular to the lake axis (Fig. 2D).





**Supplementary Figure 4:** Smear slides and grain size distributions of the different lithological units.

**KLOP18-L1B\_1-2.5\_100cm (ETH-96540) sampling material**



**Supplementary Figure 5:** Radiocarbon sampling material for sample ETH-96540 (192.4 cm composite core depth).