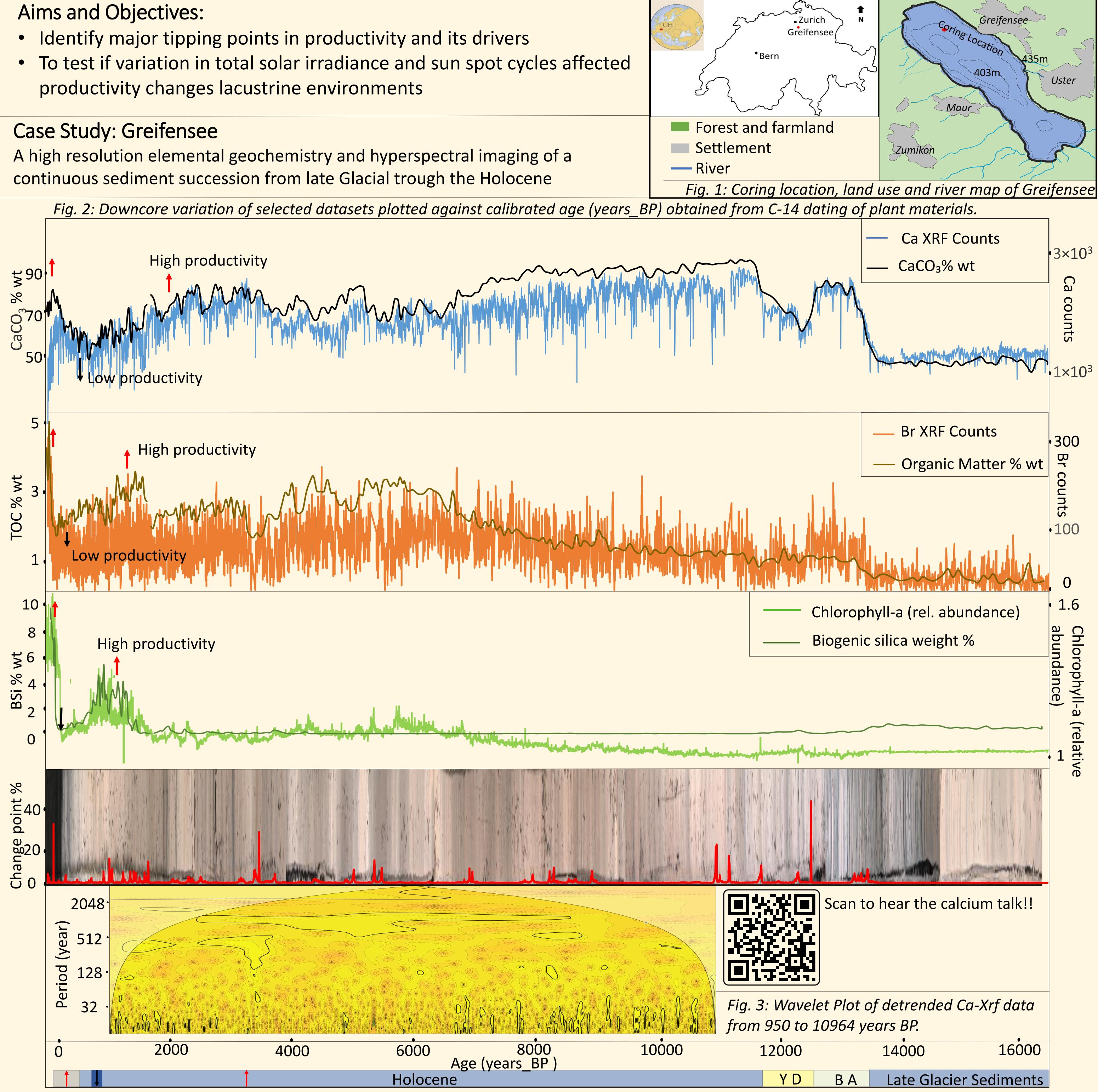
## Climatic and anthropogenic drivers of productivity $oldsymbol{u}$ in aquatic environments UNIVERSITÄT BERN

Yugandhar Nighojkar<sup>(1)</sup>, Giulia Wienhues<sup>(2)</sup>, Dimitri Vogt<sup>(1)</sup>, Leo Armingeon<sup>(1)</sup>, Hendrik Vogel<sup>(1)</sup> (1) Institute of Geological Sciences & Oeschger Centre for Climate Change Research, Universität Bern, Baltzerstrasse 1+3, 3012 Bern, Switzerland (2)Institute of Geography & Oeschger Centre for Climate Change Research, Universität Bern, 3012 Bern, Switzerland

- productivity changes lacustrine environments



## Conclusions

- Prominent oscillations corresponding to 1000, 750, 350, 155, 120, 60 year cycles are observed in the Ca XRF data between 950 and 10960 years BP.
- 120, 750, 1000 year oscillations are absent from 950 to 3370 years BP.
- Early anthropogenic influence from neolithic and middle ages might have had an influence on the trophic state of the lake and affecting the primary productivity and overprinting the oscillation signal, indicated by increased chlorophyll content.
- Change points indicate the major and minor fluctuations in primary productivity in Greifensee.