



What can macrofossils tell us about the past?

By Eric Mykleby Storum, Kalina Sonne Hable, Sander Rosvold Anstorp og Sofie Klem

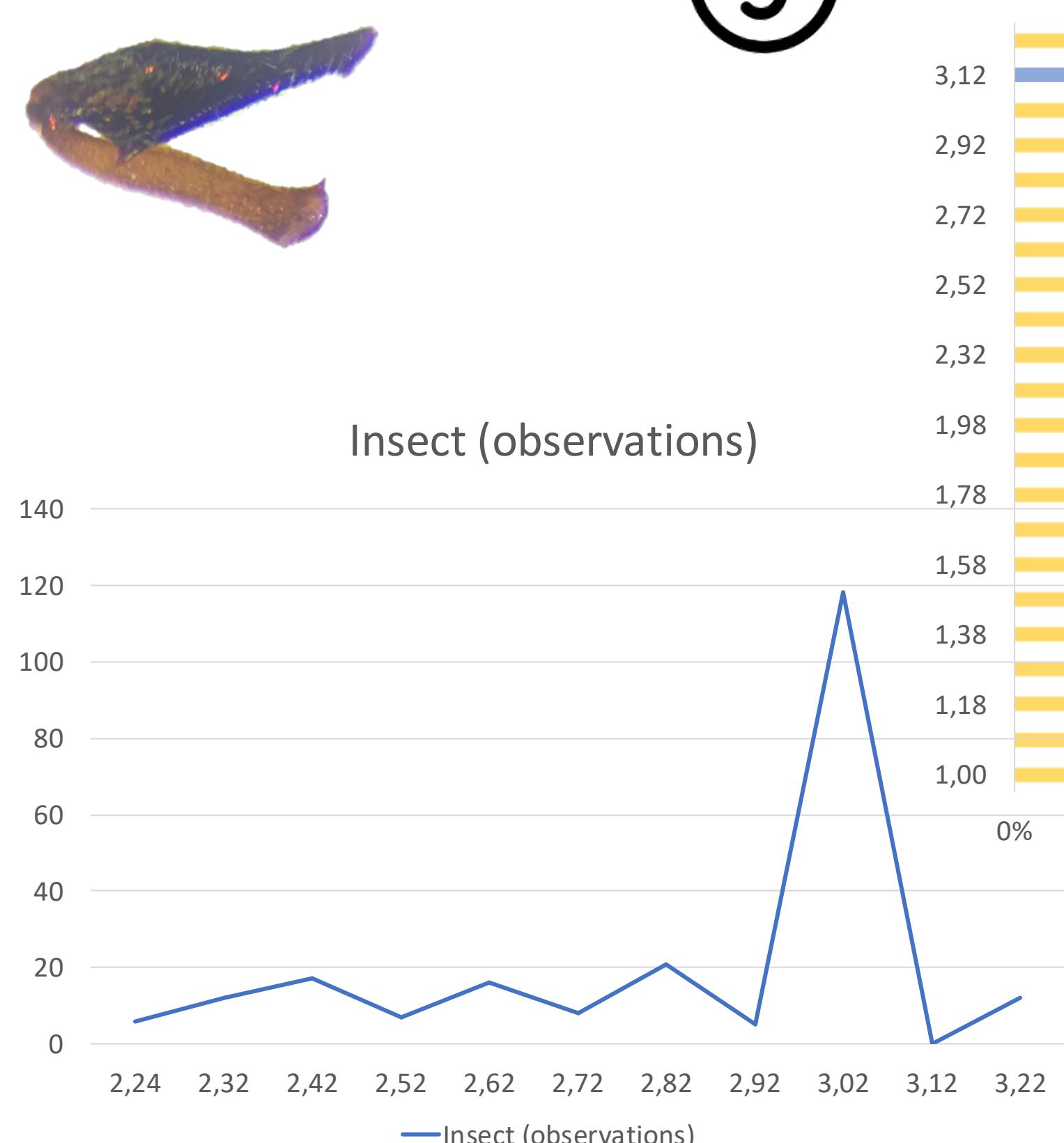
① What are macrofossils?

- "Preserved organic remains large enough to be seen without a microscope."¹
- Range from a size of about 0.5 mm to huge tree trunks.
- Include both animal and plant remains.
- Often studied in conjunction with pollen.

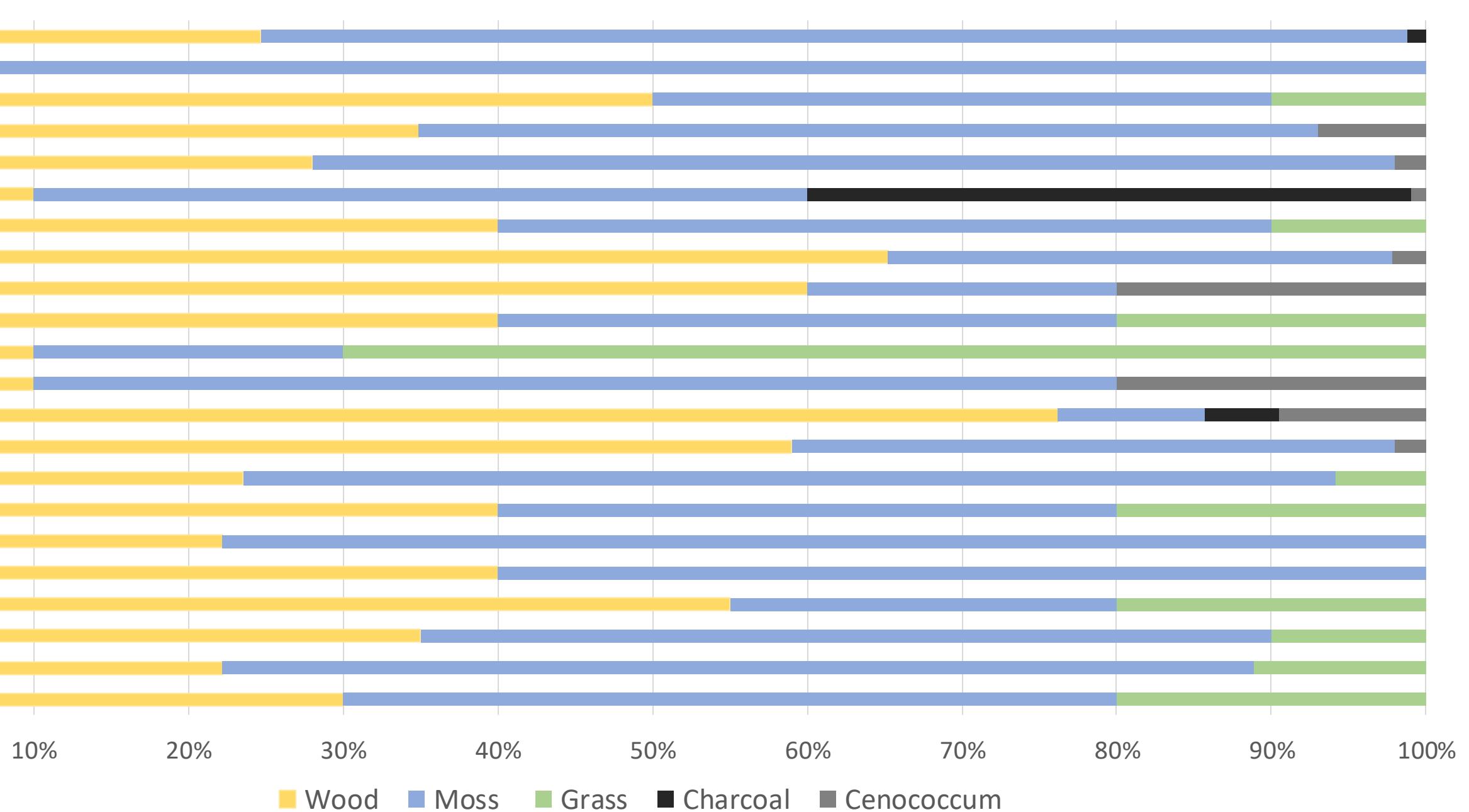
② Methods

- We retrieved two sediment cores: Core 1 (1-2 m depth) and Core 2 (2.24-3.24 m) using a russian peat corer from a bog at Lygra
- 11 samples from each core were prepared and analysed with a stereomicroscope

③



Relationship between wood, moss, grass, charcoal and cenococcum found in each sample



④

What does this tell us?

- Traces of a fire at depth 2.72 m
- Macrofossils from water living organisms – indicates that the bog used to be a lake.

⑤ Limitations

- Not enough observations to make a proper dataset
- Why the sudden increase in insect observations?



Sources

1: Birks, H. H. (2013). Plant Macrofossil Introduction. 26. <https://doi.org/10.1016/B978-0-444-53643-3.00203-X>

Mauquoy, D., Geel, B. (2007). Plant macrofossil methods and studies, Mire and Peat Macros. *Encyclopedia of Quaternary Science*, pp.2315-2336. [10.1016/B0-44-452747-8/00229-5](https://doi.org/10.1016/B0-44-452747-8/00229-5)

Sirocko, F., Knappa, H., Dreher, F., Förster, M.W., Alberta, J., Brunck, H., Veresd, D., Dietrich, S., Zech, M., Hambach, U., Röhner, M., Ruderta, S., Schwibus, K., Adamsa, C., Sigla, C. (2016). The ELSA-Vegetation-Stack: Reconstruction of Landscape Evolution Zones (LEZ) from laminated Eifel maar sediments of the last 60,000 years. *Global and Planetary Change*, 148:108-135. [10.1016/j.gloplacha.2016.03.005](https://doi.org/10.1016/j.gloplacha.2016.03.005).

