



UNIVERSITY OF LEEDS

This is a repository copy of *Palaeoenvironmental conditions and human activity in the vicinity of the Grodzisko fortified settlement (central Europe, Poland) from the late-Neolithic to the Roman period.*

White Rose Research Online URL for this paper:

<https://eprints.whiterose.ac.uk/182428/>

Version: Accepted Version

Article:

Galka, M, Kolaczek, P, Sim, TG orcid.org/0000-0001-8604-9996 et al. (4 more authors) (2022) Palaeoenvironmental conditions and human activity in the vicinity of the Grodzisko fortified settlement (central Europe, Poland) from the late-Neolithic to the Roman period. *Geoarchaeology*, 37 (2). pp. 385-399. ISSN 0883-6353

<https://doi.org/10.1002/gea.21896>

© 2021 Wiley Periodicals LLC. This is an author produced version of a paper published in *Geoarchaeology*. Uploaded in accordance with the publisher's self-archiving policy. This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Use of Self-Archived Versions. This article may not be enhanced, enriched or otherwise transformed into a derivative work, without express permission from Wiley or by statutory rights under applicable legislation. Copyright notices must not be removed, obscured or modified. The article must be linked to Wiley's version of record on Wiley Online Library and any embedding, framing or otherwise making available the article or pages thereof by third parties from platforms, services and websites other than Wiley Online Library must be prohibited.

Reuse

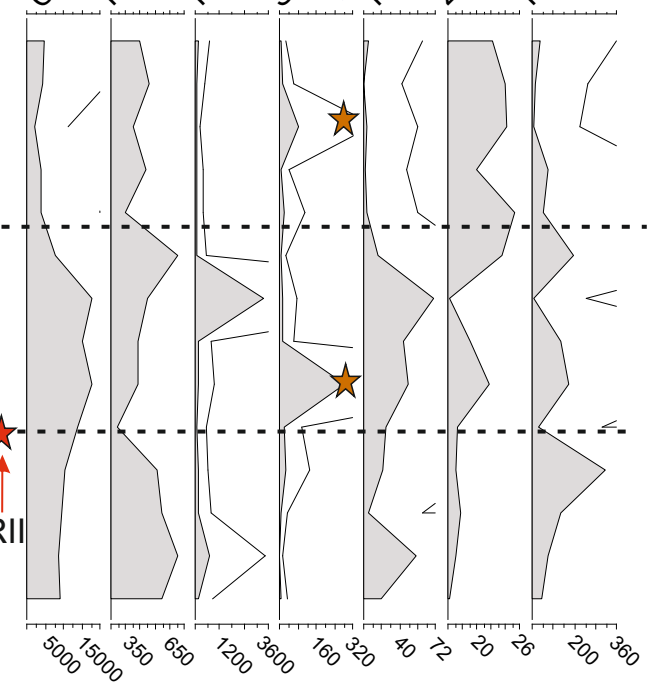
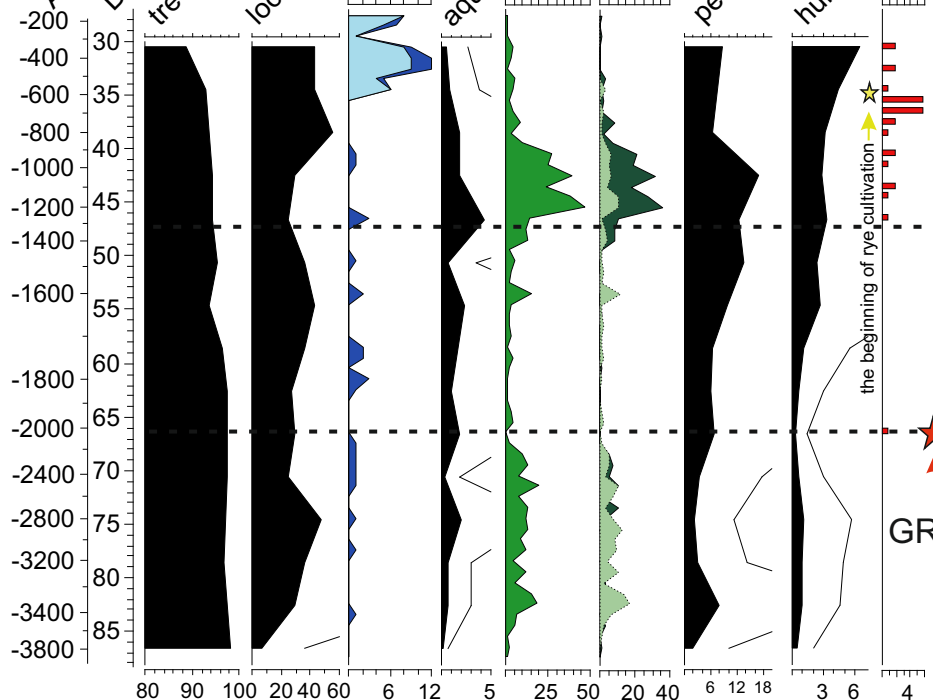
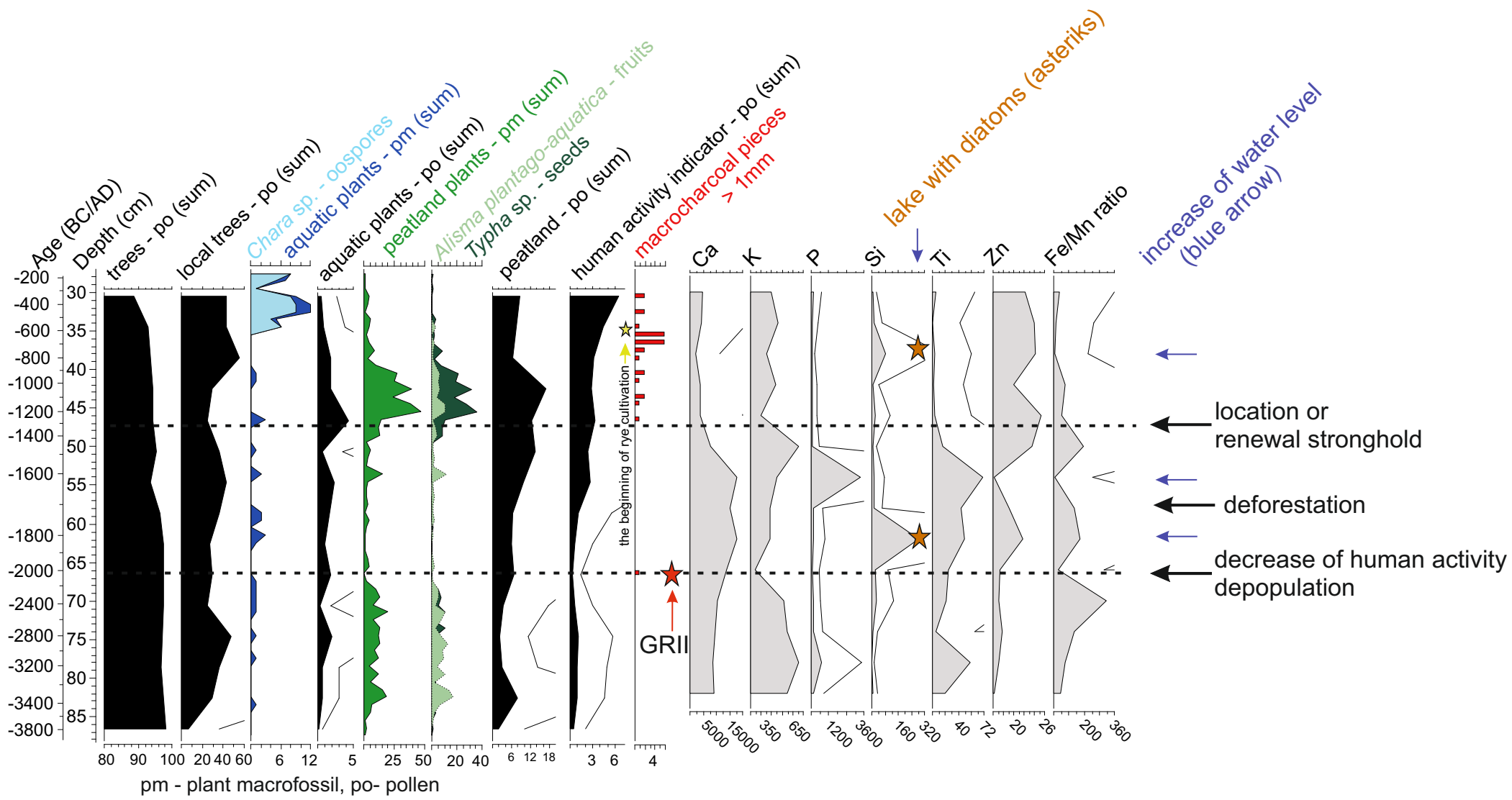
Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.



eprints@whiterose.ac.uk
<https://eprints.whiterose.ac.uk/>



Age (BC/AD)

Depth (cm)

trees - po (sum)

local trees - po (sum)

Chara sp. - oospores

aquatic plants - pm (sum)

aquatic plants - po (sum)

peatland plants - pm (sum)

Alisma plantago-aquatica - fruits

Typha sp. - seeds

peatland - po (sum)

human activity indicator - po (sum)

macrocharcoal pieces > 1mm

Ca

K

P

Si

Ti

Zn

Fe/Mn ratio

lake with diatoms (asteriks)

increase of water level (blue arrow)

location or renewal stronghold

deforestation

decrease of human activity depopulation

the beginning of rye cultivation

GRII

pm - plant macrofossil, po- pollen