



Supplementary material: A sedimentological oxymoron: highly evolved glauconite of earliest diagenetic origin

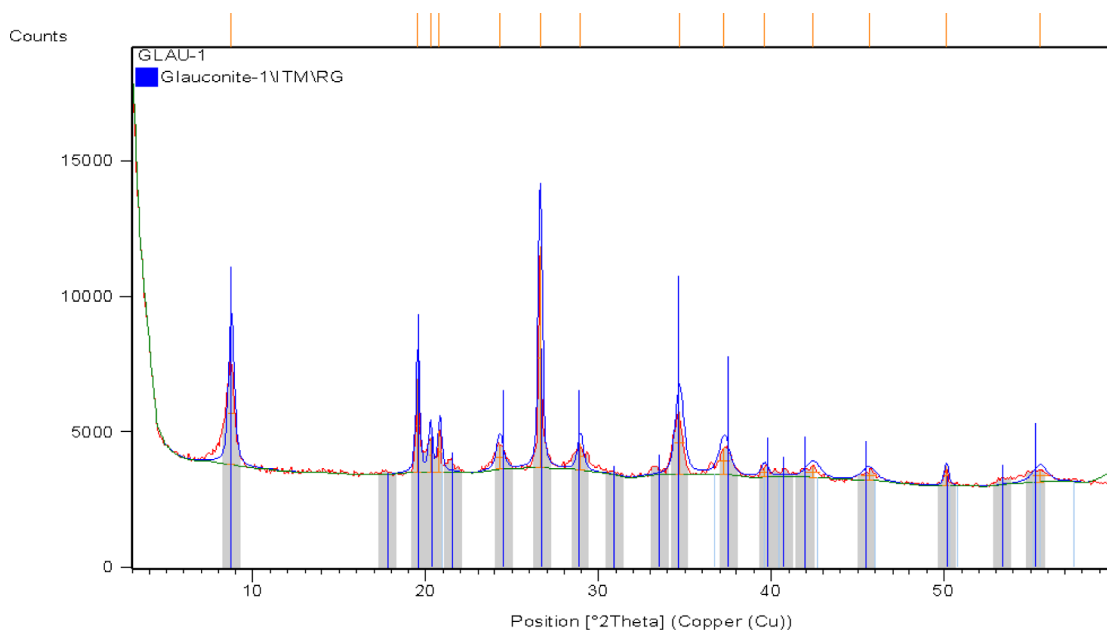
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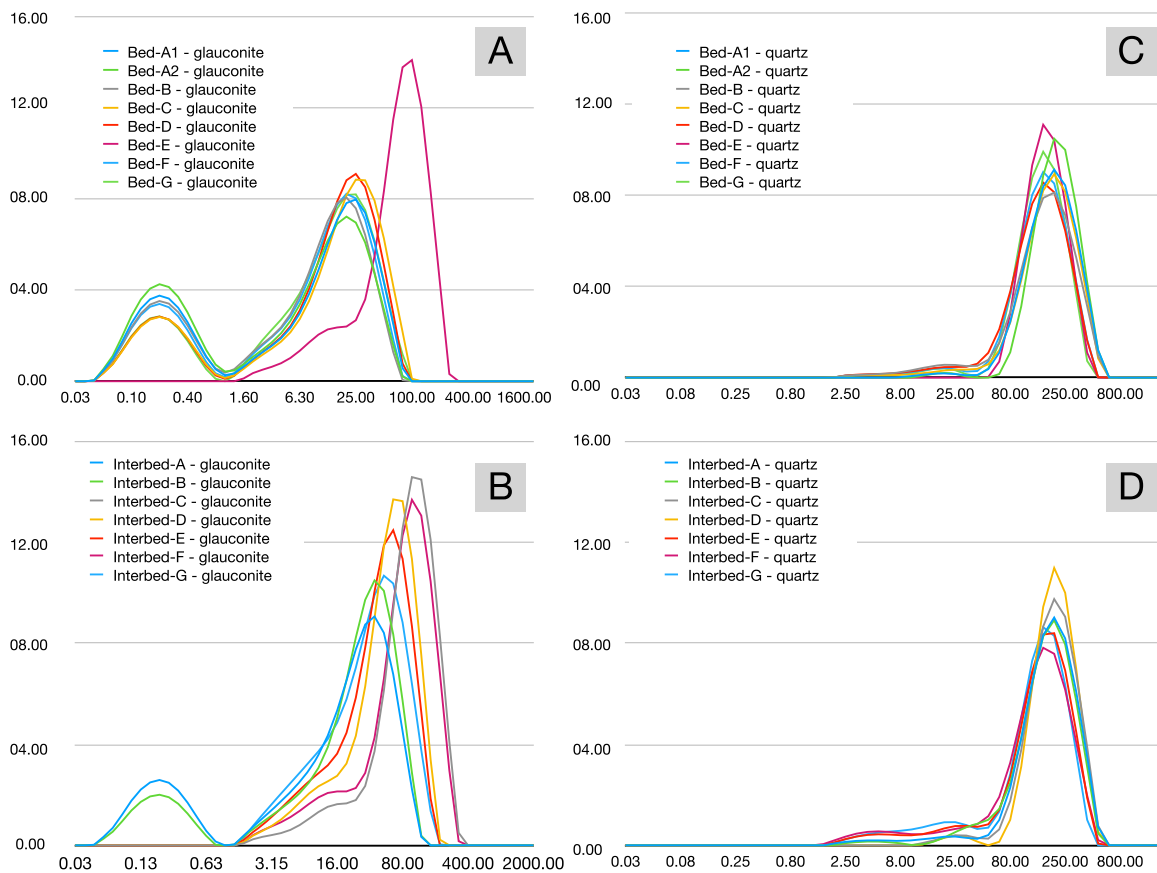
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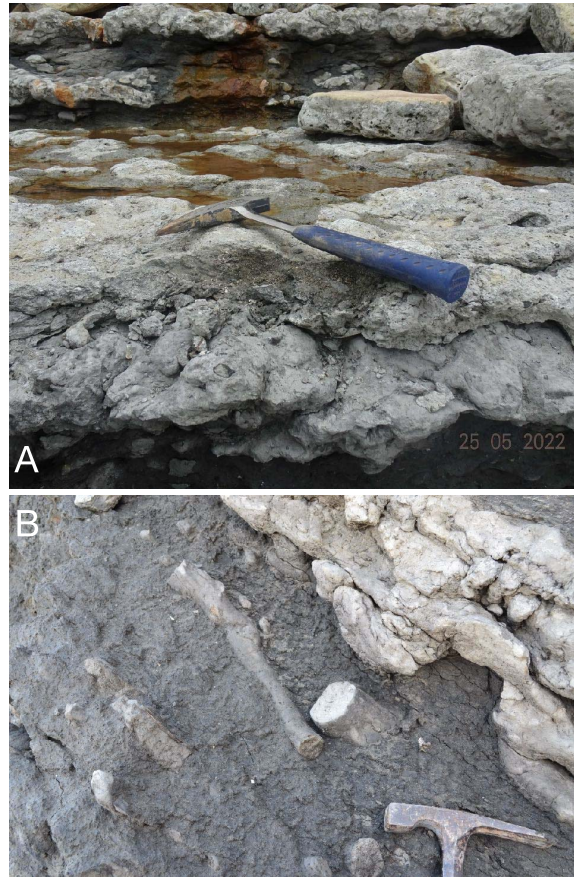


Supplementary Figure S1. Typical X-ray diffractograms of the glauconite that was extracted from the samples examined in the present work as well as in the previous studies of the Boulonnais glauconite Tribovillard et al. [2021, 2023].

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Supplementary Figure S2. Grain size curves of glauconite (A, B) and quartz (C, D), extracted respectively from carbonate beds (A, C) and marly interbeds (B, D).



Supplementary Figure S3. (A) Illustration of the contorted facies of the carbonate beds (spot 2, north of Wimereux). (B) Indurated bioturbations visible in interbeds. The tubes are not compacted nor flattened, which proves that they were indurated very early.