SUPPLEMENTARY MATERIAL TO:

Hršelová, P., Houzar, S., Buriánek, D., Všianský, D., Szczerba, M., Ciesielska, Z., Štelcl, J. & Nehyba, S., 2023. Chromium-rich illite/smectite in the basal Balinka Conglomerate of the Upper Carboniferous-Permian Boskovice Basin (Bohemian Massif). *Annales Societatis Geologorum Poloniae*, 93: 195–210.

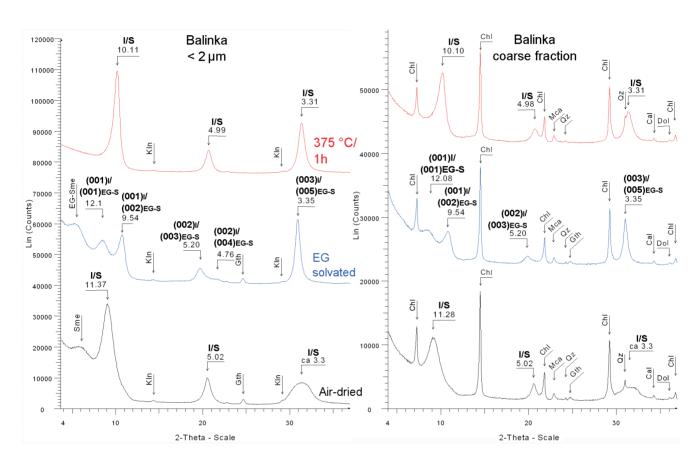


Fig. S1. Diffractograms (4–37 $^{\circ}$ 2Θ) of air/dried, ethylene glycol solvated and 375 $^{\circ}$ C/lh heated oriented mounts of < 2 μm and coarse fraction of the Havírna-Balinka sample. Reflections of R1-illite(0.8)/smectite are marked in bold and d-values in Å are given for them. Cal – calcite, Chl – chlorite, Dol – dolomite, I/S – illite/smectite, Sme – smectite, Kfs – K-feldspar, Pl – plagioclase, Gth – goethite, Kln – kaolinite, Mca – mica, Qz – quartz.

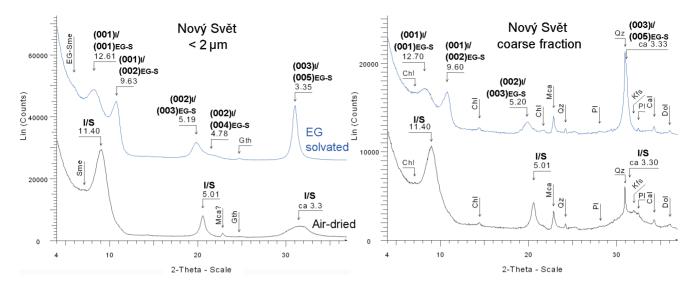


Fig. S2 Diffractograms (4–37 °2 Θ) of air/dried, ethylene glycol solvated oriented mounts of < 2 μ m and coarse fraction of the Nový Svět sample. Reflections of R1-illite(0.8)/smectite are marked in bold and d-values in Å are given for them. Cal – calcite, Chl – chlorite, Dol – dolomite, I/S – illite/smectite, sme – smectite, Kfs – K-feldspar, Pl – plagioclase, Kln – kaolinite, Gth – goethite, Mca – mica, Oz – quartz.

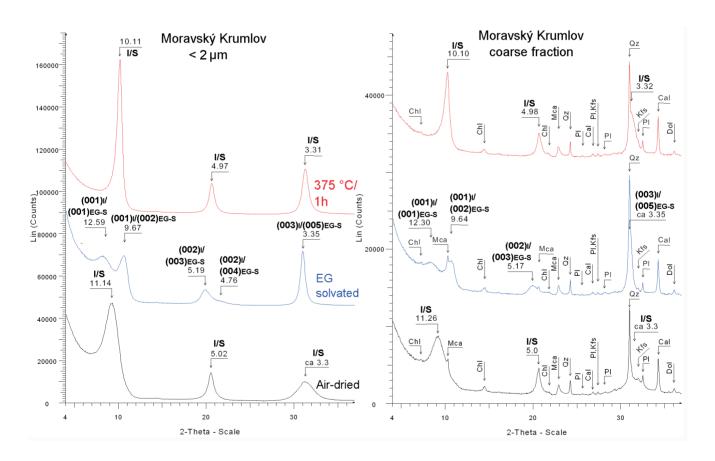


Fig. S3. Diffractograms (4–37 °2Θ) of air/dried, ethylene glycol solvated and 375 °C/lh heated oriented mounts of < 2 μm and coarse fraction of the Moravský Krumlov sample. Reflections of R1-illite(0.8)/smectite are marked in bold and d-values in Å are given for them. Cal – calcite, Chl – chlorite, Dol – dolomite, I/S – illite/smectite, Kfs – K-feldspar, Pl – plagioclase, Mca – mica, Qz – quartz.

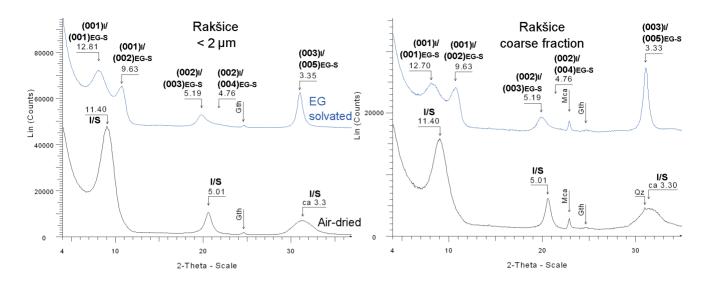


Fig. S4. Diffractograms (4–37 $^{\circ}2\Theta$) of air/dried, ethylene glycol solvated oriented mounts of < 2 μ m and coarse fraction of the Rakšice sample. Reflections of R1-illite(0.8)/smectite are marked in bold and d-values in Å are given for them. I/S – illite/smectite, Mca – mica, Gth – goethite, Qz – quartz.

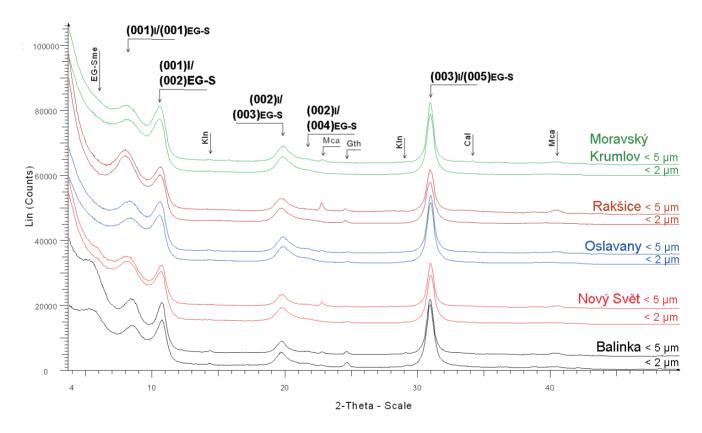


Fig. S5. Diffractograms (4–37 $^{\circ}2\Theta$) of ethylene glycol solvated oriented mounts of < 2 μ m and of < 5 μ m fraction of all samples. Reflections of R1-illite(0.8)/smectite are marked in bold and d-values in Å are given for them. Cal – calcite, I/S – illite/smectite, Sme – smectite, Mca – mica, Kln – kaolinite, Gth – goethite.