3RD CROSSING THE PALAEONTOLOGICAL-ECOLOGICAL GAP (CPEG)

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Poster

NEW PRELIMINARY PALAEONTOLOGICAL STUDIES ON LATE SILURIAN FOSSILS BASED ON THE CORE OF MILAIČIAI 103 WELL (SW LITHUANIA)

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The distribution of Silurian rocks in Lithuania is a good example of multifacial sediments with a marine deep shelf in the western part and a marine shallow shelf and lagoonal in the eastern and easternmost parts (Valiukevičius 2005). Meanwhile, the studied Milaičiai 103 well is located in the transition from open to deep shelf in the southwestern part of Lithuania (55° 15' 48.09" N, 22° 38' 11.96" E).

The 400 carbonatic samples were collected from the core of Milaičiai 103 well. These samples are spanning four local geological formations (Ventspilis, Minija, Jūra, and Tilžė formations) of the uppermost part of Wenlock through the entire Pridoli. As a result, the new palaeontological investigation revealed: the scales of thelodonts, teeth and scales of the acanthodians, scolecodonts fragments as well as gastropods, extremely rare finds of coprolites and chitinozoans, poorly-preserved ostracods, and other groups in the studied material. This diverse assemblage of newly discovered fossils will provide a better understanding of their reactions to the Šilale Even (early Pridoli) which was caused by significant and prolonged changes to a colder and more arid climate, and previously established based on conodonts and brachiopods taxa by Spiridonov et al. (2020).

References:

Valiukevičius, J. 2005. Silurian acanthodian biostratigraphy of Lithuania. Geodiversitas, 27(3), pp.349-380.

Spiridonov, A., Stankevič, R., Gečas, T., Brazauskas, A., Kaminskas, D., Musteikis, P., Kaveckas, T., Meidla, T., Bičkauskas, G., Ainsaar, L. and Radzevičius, S. 2020. Ultra-high resolution multivariate record and multiscale causal analysis of Pridoli (late Silurian): implications for global stratigraphy, turnover events, and climate-biota interactions. Gondwana Research, 86, pp.222-249.

CPEG

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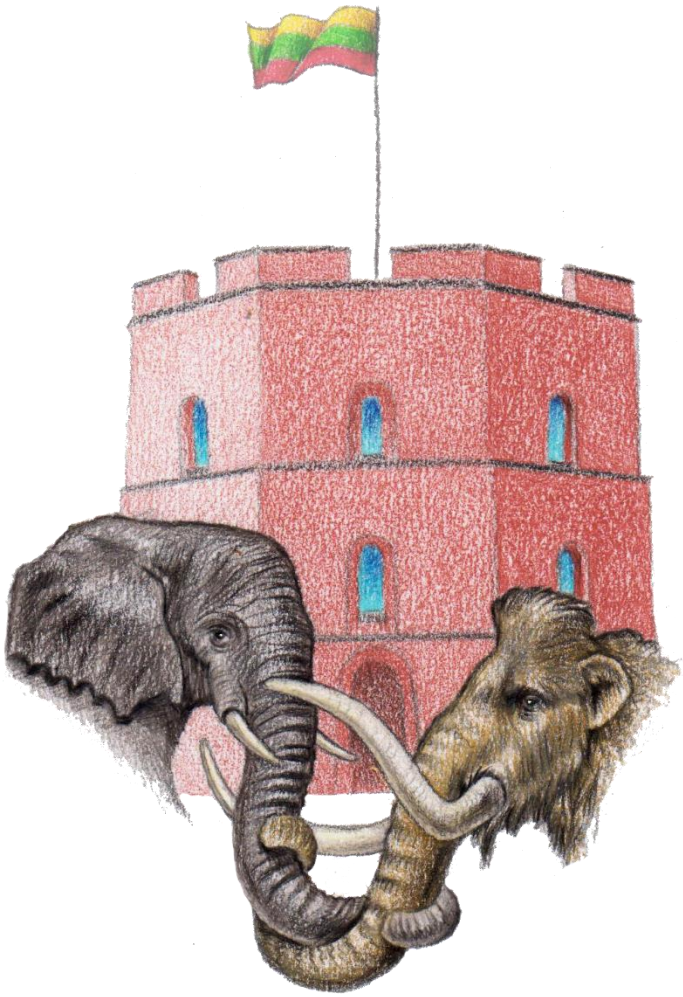

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