



XI Baltic Stratigraphical Conference

Abstracts and Field Guide

Edited by Olle Hints, Peep Männik and Ursula Toom



Geological Society of Estonia
Tallinn University of Technology, Department of Geology
University of Tartu, Department of Geology
Geological Survey of Estonia

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XI Baltic Stratigraphical Conference, Tartu and Arbavere, Estonia (August 19–21, 2024)

Post-conference Field Excursion (August 22–25, 2024)

The conference and field excursion are organised by:

Geological Society of Estonia

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Distribution of Silurian graptolites in the Kleczanów PIG - 1 well (Holy Cross Mountains, Poland): a preliminary report

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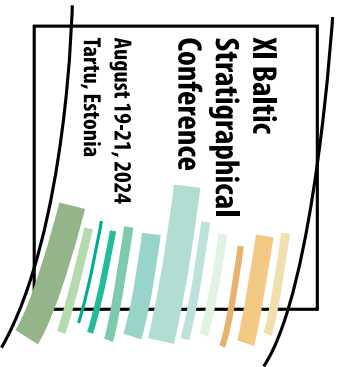


Two distinctive graptolite crises referred to as the Ireviken and Mulde events were recognised worldwide in the Wenlock of the Silurian period. These biological crises can be linked to early and later Wenlock glaciations and climate aridity.

New graptolite material comes from the Kleczanów PIG – 1 borehole (depth 233 – 178 m), and the drill core is composed of dark shales of the Prągowiec Beds. The samples were taken at intervals of approximately one metre. Kleczanów PIG – 1 borehole was drilled in the southern Holy Cross Mountains (Central Poland). According to the geological composition, the Holy Cross Mountains are divided into the Kielce Unit in the south and the Łysogóry Unit in the north. So, Kleczanów PIG – 1 borehole is in the Kielce Unit.

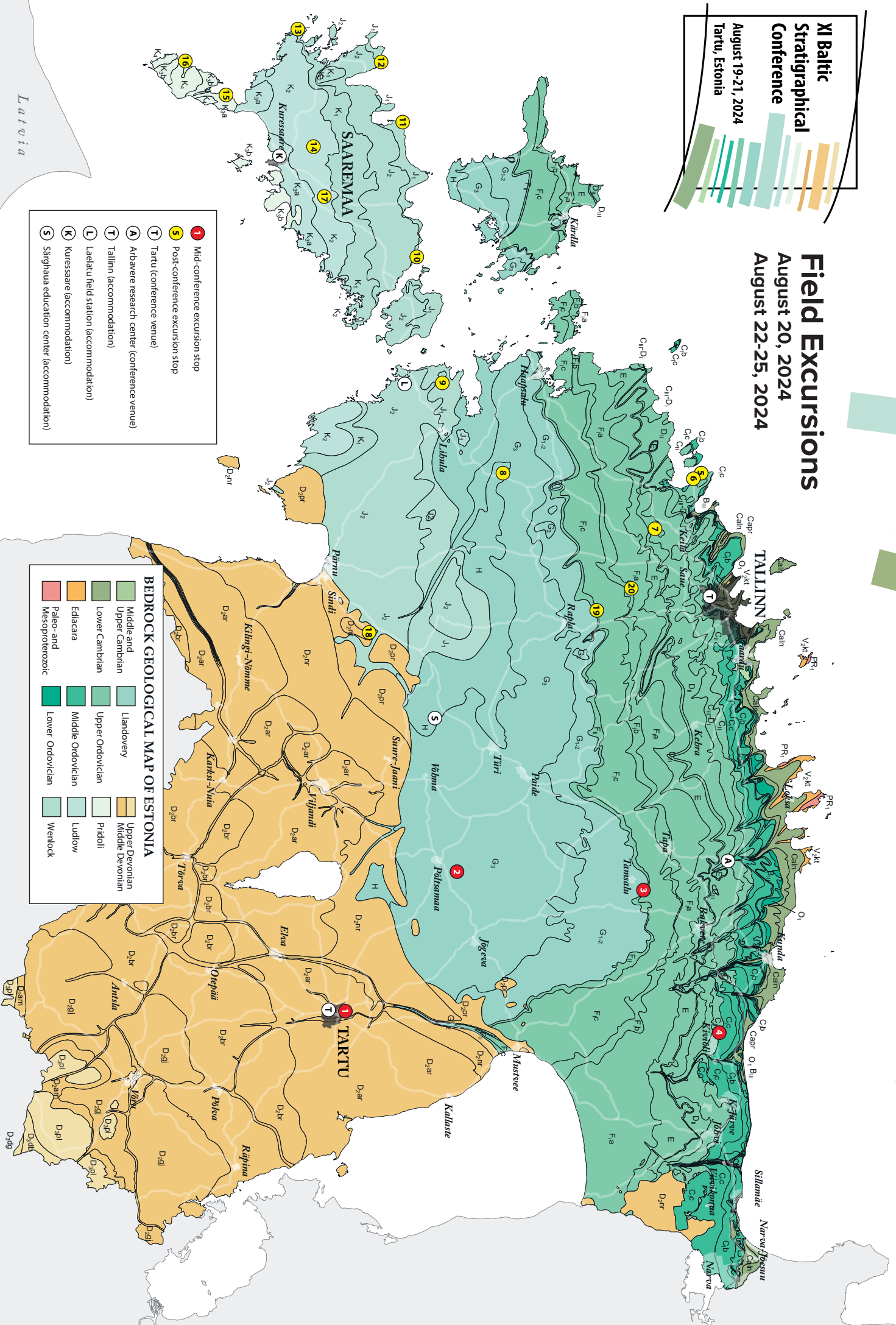
According to preliminary graptolite data, we can distinguish a graptolite biozone sequence from *Monograptus riccartonensis* (lower Wenlock, Sheinwoodian) to *Neodiversograptus nilssoni* (lower Ludlow, Gorstian). It is interesting to note that no *Retiolites* were found in the Kleczanów PIG - 1 borehole. The fossils of retiolitids were also not found in the Upper Homerian interval, where their diversity was very high. *Monograptus ambiguus* Jaeger from the uppermost *Cyrtograptus lundgreni* Biozone was identified for the first time in the Holy Cross Mountains. This species was previously known from Bohemia and Saxothuringia.

Keywords: Lower Silurian, Łysogóry Unit, graptolites, biostratigraphy.



Field Excursions

August 20, 2024
August 22-25, 2024



- 1 Mild-conference excursion stop
- 5 Post-conference excursion stop
- T Tartu (conference venue)
- A Arbavere research center (conference venue)
- T Tallinn (accommodation)
- L Laelatu field station (accommodation)
- K Kuusaare (accommodation)
- S Särghaasa education center (accommodation)

BEDROCK GEOLOGICAL MAP OF ESTONIA

 Middle and Upper Cambrian	 Llandovery	 Upper Devonian
 Lower Cambrian	 Upper Ordovician	 Middle Devonian
 Ediacara	 Middle Ordovician	 Pridoli
 Pale- and Mesoproterozoic	 Ludlow	 Wenlock

Latvia