Middle-Late Ordovician biodiversification and relevant environmental changes in Estonia

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Following up the ‘Cambrian explosion’, marine biodiversity increased dramatically during the Ordovician, as known as the 'Great Ordovician Biodiversification Event' (GOBE). Estonia in central Baltoscandia provides excellently continuous Ordovician sedimentary package for detailed analysis. We are analyzing the drilled core samples of the Middle-Upper Ordovician strata (ca. 150 m-thick) collected from Velise in central Estonia, in order to clarify litho-, bio-, and isotope stratigraphy of C and Sr, and to reveal the cause and processes of the GOBE. We will report on our preliminary results.

Keywords: Ordovician, Baltoscandia, GOBE, stratigraphy, drilled core