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ve středu 8. března 2023 od 14:50 ve Velké paleontologické posluchárně

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No (Cambrian) explosion and no (Ordovician) event: a single long-term radiation in the early Palaeozoic

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The Cambrian 'Explosion' is considered by some researchers to be an abrupt appearance in the fossil record of most animal phyla, with a sudden, or near abrupt increase of complex morphologies across metazoan groups that took place during the early Cambrian. On the other hand, the Great Ordovician Biodiversification 'Event' (GOBE) has similarly been restricted by a some authors to a single dramatic biodiversification 'event' at the base of the Middle Ordovician. Our review of biodiversity curves of marine organisms during the early Palaeozoic, including some based on data in the Paleobiology Database (PBDB) and the Geobiodiversity Database (GBDB), points toward a

single, large-scale, long-term early Palaeozoic radiation of life that already started in the late Precambrian. Curves of taxonomic richness do neither recognize an 'explosion' in the Cambrian, nor an 'event' in the Ordovician. Therefore, the terms Cambrian 'explosion' and Great Ordovician Biodiversification 'Event' should be used in a conceptual context only.

