

Palynology of the Kazanian stratotype section (Permian, Russia): palaeoenvironmental and palaeoclimatic implications

Götz A., Silantiev V.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2014, Senckenberg Gesellschaft für Naturforschung and Springer-Verlag Berlin Heidelberg. Palynomorph assemblages reflect changes in land plant communities and are thus significant proxies to interpret palaeoenvironmental and palaeoclimatic changes. The Middle Permian of the East European Platform is crucial to the understanding of marine and non-marine palaeoclimate archives and interregional correlations of marine and non-marine successions, utilising palaeoclimate signatures documented in the palynological record. New palynological data from the Kazanian stratotype section are presented and interpreted with respect to palaeoenvironment and palaeoclimate. This dataset will serve as a basis for ongoing studies on the type area of the Kazanian and the mid-Permian biodiversity patterns, preceding the end-Guadalupian crisis and the changes of the end-Permian biotic diversification followed by the most severe extinction event in Earth's history at the Permian-Triassic boundary.

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Keywords

Palaeoclimate, Palaeoenvironment, Palynology, Permian, Russia