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Fossil flora and stratigraphy of the Terrigenous Kungurian beds (Lower Permian) of the basin of the Barda River (Urals, Perm krai)

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Abstract

© 2014, Pleiades Publishing, Ltd. The stratigraphy and nomenclature of the most important sections of the Kungurian Stage composed of arenaceous-argillaceous deposits in the basin of the Barda River (Perm krai, Middle Urals) are characterized using paleobotanical and palynological data. A new genus *Astrogaussia* Naugolnykh, gen. nov. is established for female reproductive organs of the gymnosperm order Vojnovskyales from the Carboniferous and Permian deposits of Angaraland and the Subangaran ecotonic belt, represented by headlike aggregations of sterile scales and seed stalks, with attached orthotropic seeds with a well-developed integumental wing. New combinations are proposed: *Astrogaussia imbricata* (Naugolnykh) Naugolnykh, comb. nov. (type species of the genus *Astrogaussia*), *A. cristata* (Neuburg) Naugolnykh, comb. nov., and *A. relaxata* (Radczenko) Naugolnykh, comb. nov.

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Keywords

Astrogaussia, new taxa, paleobotany, Permian System, stratigraphy, the Urals, Vojnovskyales, Vojnovskyopsida