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FOSSIL
WEEK

ABSTRACT BOOK



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S2 - Angiosperms, from the beginning to their diversification

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Albian Angiosperms of Partizansk Basin (Primorye Region, Far East of Russia)

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The well-preserved herbaceous angiosperms were found last summer in the Lower Cretaceous deposits of the Frenzevka Formation, southern Primorye, Far East of Russia. Locality Bolshoy Kuvshin is situated on the coast of Ussuri Bay on the Bolshoy Kuvshin Cape near the Bolshoy Kamen town. The geological age of the plant-bearing bed is determined to be early-middle Albian in age. Angiosperm assemblage includes six species: *Achaenocarpites capitellatus* Krassilov et Volynets, *Ternaricarpites floribundus* Krassilov et Volynets, *Jixia pinnatipartita* Guo et Sun, *Asiatifolium elegans* Sun, Guo et Zheng and two new undetermined species. The most part of specimens are represented by fragments of branching stems with attached leaves or fruits or by almost complete plants. Two species (*Jixia pinnatipartita* and *Asiatifolium elegans*) are common with angiosperm assemblage from the Chengzihe Formation (eastern Heilongjiang, China). Angiosperm remains are accompanied by fern *Onychiopsis psilotoides*, which is represented by almost whole young plants. The fossil plants were buried during one flooding event and very closely to their growth place. They formed pioneer open herbaceous community, consisting from fern and angiosperms with predominance of latter and adapted to colonize fresh sediments in periodically flooded areas.

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