ACTA PALAEONTOLOGICA POLONICA

A new species of *Todites* (Pteridpohyta) with *in situ* spores from the Upper Permian of Pechora Cis-Urals (Russia)

Serge V. Naugolnykh
Acta Palaeontologica Polonica 47 (3), 2002: 469-478

Todites lobulatus sp. nov. is described from the lowermost Upper Permian (Ufimian) of the Pechora basin. The fossil remains preserved as compressions and impressions, were collected from near-shore lake deposits of the Intinskian Formation. The species belongs to protoleptosporangiate ferns (Pteridophyta) of the Osmundaceae, and is characterized by tripinnate fertile fronds with deeply dissected lobate pinnules with round apexes. Sporangia are round or ovoid, free, and located on the abaxial leaf surface. A group of specialized thick-walled cells is located on the top or side part of the sporangia. The species is the most ancient representative of Osmundaceae. Spores of *Osmundacidites*-type, preserved in situ, are characterized.

Key words: Pteridophyta, Osmundaceae, spores, ferns, Permian, Russia.

Serge V. Naugolnykh [naug@geo.tv–sign.ru], Geological Institute, Russian Academy of Sciences, Pyzhevsky per. 7, 109017 Moscow, Russia.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Full text (702.9 kB)