

Chitinozoans on selected Silurian outcrops in the Barrandian (Prague basin, Czech Republic)

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Abstract

Two Silurian outcrops were sampled and treated by standard palynological method. Over 70 productive samples yielded more than 2200 vesicles of Chitinozoans. In some samples scolecodonts and muellerisphaerids were presents.

At the stratotype section „Na Požárech“ (GSSP for the base of the Přídolí Series) three accompanying species of the *Angochitina elongata* biozone (*Angochitina echinata*, *Belonechitina lauensis* and *Belonechitina latifrons*) and *Eisenackitina barrandei* biozone were established. First appearance of *Eisenackitina barrandei* was established in bed number 67. No *Eisenackitina philipi* specimens (representing toponymous biozone) were determined. Between bed numbers 20 and 67 no chitinozoan specimens were found.

A section in the vicinity of Bykoš (Silurian, Prague Basin, Barrandian area, Czech Republic) was sampled. Twenty chitinozoans taxa were determined. Eleven species of five genera were recorded, and eight species were left in open nomenclature. Following taxa were recorded: *Ancyrochitina* sp. A, *Ancyrochitina* sp. B, *Ancyrochitina* sp. C, *Ancyrochitina* cf. *pedavis*, *Angochitina* sp. A, ? *Angochitina* sp., *Cingulochitina angusta*, *Cingulochitina bounienseis*, *Cingulochitina dreyenenseis*, *Cingulochitina pitetenseis*, *Conochitina* cf. *emmastenseis*, *Conochitina proboscifera*, *Conochitina proboscifera* f. *truncata*, *Conochitina proboscifera* f. *gracilis*, *Conochitina tuba*, *Conochitina* sp. A, *Conochitina* sp. B, *Conochitina* sp. C, *Conochitina* sp. D, *Linochitina odiosa*. On the basis of correlation with coeval sections, the age of the profile is estimated to be lower Wenlock.