

Carpistomiosphaera tithonica NOVAK, 1968*

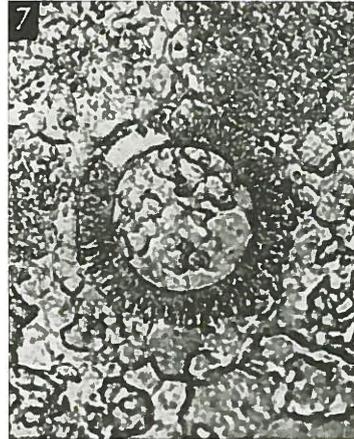


FIG. 7 — *Carpistomiosphaera tithonica* n. sp.; holotype, x 440. Lower Cieszyn Shales — horizon with exotics, blocks of limestone from the upper horizon of the *Stomiosphaera* Limestones, Lower — ? Middle Tithonian.

Description:

Unilocular microfossils possessing tests composed of two layers with fibrous structure consisting of very small and irregular fibres radially disposed. Inner surface of test smooth, outer surface uneven. The outer layer is ca. twice as thick as the inner one.

Aperture was not seen in the present specimens from the Cieszyn Beds.

In reflected light the test is milky white, in passing light glassy and colourless, in feeble light the densely arranged fibres appear to be of a dark colour, in polarized light (nicols crossed) and during rotation the test gives a discontinuous polarization.

Outer diameter of specimens 50,7—54,6 μ , thickness of wall 8—9 μ .

Dimensions of the holotype:	outer diameter of specimen	54,6 μ
	thickness of test	9,0 μ
	thickness of the inner layer	3,0 μ
	thickness of the outer layer	6,0 μ

Remarks:

Carpistomiosphaera tithonica n. sp. differs very clearly from *Carpistomiosphaera borzai* (NAGY) by the structure of wall. In the former the fibres forming the ring are much finer, particularly in the outer layer, and their course is irregular. Besides in *Carpistomiosphaera tithonica* the relation of the thickness of the inner layer to that of the outer is 1 : 2, and in *Carpistomiosphaera borzai* — 1 : 1. Besides, in the latter species these layers are sharply delimited, and in the former species they are not.

Type level:

Lower to ? Middle Tithonian, upper horizon of the *Stomiosphaera* limestone.

Occurrence: 1) Lower Cieszyn Shales, upper horizon of the *Stomiosphaera* limestones (Lower and ? Middle Tithonian) Cisownica — Tul; 2) Lower Cieszyn Shales, horizon with exotic fragments (? Middle and ? Upper Tithonian), a block of limestone from the upper horizon of the *Stomiosphaera* limestones (Lower and ? Middle Tithonian), Jasienica.

Type locality:

Quarry near limekiln at Jasienica in the environs of Bielsko-Biala, Polish Cieszyn Silesia.

Depository:

Carpathian Laboratory of the State Geological Survey in Cracow, collection of thin slides, No J-453, x-22,3, y-66,2.

Author:

Novak. W., 1968, p. 320; pl. 31, fig. 7.

Reference:

Stomiosphaerids of the Cieszyn Beds (Kimmeridgian- Hauterivian) in the Polish Cieszyn Silesia and their Stratigraphical Value. *Annales de la Société Géologique de Pologne*, vol. 38, n° 2-3, pp. 275-327, pls. 25-31, text-figs. 1-6.

* Please read NOWAK.