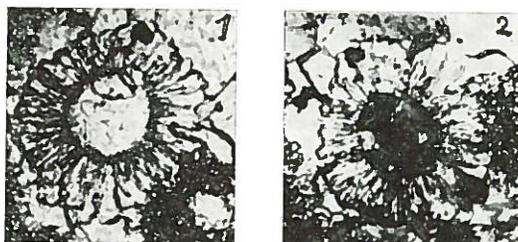


Colomisphaera cieszynica NOWAK, 1968

This species has been already described as *Stomiosphaera cieszynica* NOWAK n. sp., 1965 in: Stomiosfery warstw cieszynskich oraz uwagi o mozliwosci wyzyskania ich dla korelacji stratygraficznej. Kwart. geol. 9, n. 2, pp. 443-444.



FIGS. 1-2 — *Colomisphaera cieszynica* n. sp.; holotype, x 340. Cieszyn Limestones without *Calpionella*. 1) one nicol, 2) crossed nicols.

Description:

Spherical microfossils possessing test with fibrous structure 48—88 μ in size and with walls 18—24 μ thick. The fibres forming walls are long and closely packed. On the inner side of the test is visible a thin dark brown ring. The outer surface is uneven, as if corroded but rather distinctly divided from the enclosing cement.

Dimensions of holotype: outer diameter	72 μ
inner diameter	24 μ
thickness of test	24 μ

Remarks:

No sections showing aperture were found in the present specimens from the Cieszyn Beds. The frequency of occurrence and size of *C. cieszynica* are different in particular stratigraphical members. This species is sporadic and small (up to 48 μ) in the Lower Cieszyn Shales; both the size and its amplitude increase in the Cieszyn Limestones without *Calpionella*, where they reach 48—88 μ , most frequently 64 and 72 μ ; the number of specimens also substantially increases. Higher up occur exclusively specimens with tests 24 μ thick, even when they are sporadic, as is the case in the Cieszyn Limestones with *Calpionella*. In the Upper Cieszyn Shales *C. cieszynica* has not been found.

Colomisphaera cieszynica, *C. minutissima* and *C. carpathica* all possess tests composed of one layer. The former species differs from the two remaining ones by a distinctly thicker test and by its outer diameter; in *C. cieszynica* no specimens with outer diameter inferior to 48 μ were observed, while such specimens occur both in *C. minutissima* and *C. carpathica*.

Type level:

? Upper Tithonian, Cieszyn Limestones without *Calpionella*.

The abundance of *C. cieszynica* in the Cieszyn Limestones without *Calpionella* allowed to distin-

guish the *cieszynica* zone. There occur in this zone also the following species: *Parastomiosphaera malmica* — f, *Stomiosphaera moreti* — r, *Colomisphaera minutissima* — a, *C. carpathica* — c, *C. ornata* — r, numerous Cadosinids: *C. fusca* WAN., *C. fusca wanneri* NOWAK, *C. fusca cieszynica* NOWAK, isolated specimens of *Patelloides juvavica* LEISCHN., and indeterminable benthonic Foraminifera — c. (— r = rare, — f = frequent, — c = common, — a = abundant).

Type locality:

Jasienica, quarry 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-444, x-21,2, y-53,9.

Author:

Nowak W., 1968, p. 323; pl. 30, figs. 1,2.

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.