

Carboniferous Rugosa and Heterocorallia from boreholes in the Lublin Region (Poland)

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Forty two species referred to 21 genera and 2 subgenera are described; one genus and 5 species are new: *Diphyphyllum rarevesiculosum* sp.n., *Lithostrotion (Siphonodendron) dobrolyubovae* sp.n., *L. (S.) rossicum strzelcense* subsp.n., *L. (S.) rossicum parvum* subsp.n., *Lublinophyllum fedorowskii* gen. et sp.n. Genera *Orionastraea* and *Turbinatocaninia* are for the first time recorded in Poland.

Heterophyllidae with 5 septa and pentagonal cross-section are recorded.

Blastogeny has been studied in 13 species and subspecies. Axial increase has been studied in detail in *Lithostrotion (Siphonodendron) dobrolyubovae* sp.n.

Taxonomic division of Rugosa based on blastogeny, is demonstrated to be questionable in some cases. Fusion of corallites has been observed in colonies of *Lithostrotion* and *Lonsdaleia* colonies. Existence of holotheca in *Orionastraea* aff. *magna* Kato & Mitchell has been proved.

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