

## Middle and Late Devonian sponge spicules of the Holy Cross Mountains and Silesian Upland

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Calcareous octactinellid sponge spicules are abundant in the Givetian and early Frasnian organic buildups in the Holy Cross Mts and Siewierz anticline. Silesian Upland, Monaxone-bearing siliceous Demospongea (or ?Iyssakid Hyalospongea) occupied coeval quiet-water basin habitats. Significant reorganization within these generally deeper-water associations occurred late in the Frasnian (a local rise of the lithistids associated with dictyids and Iyssakids) and early in the Famennian (profusion of Hyalospongea).

**Key words:** sponges, Octactinellida, Triaxonia, Devonian, Poland.

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