

New data on the incertae sedis biota and foraminifera of the mid-Famennian Baelen Member (Late Devonian, eastern Belgium)

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Abstract

The Baelen mud mounds in eastern Belgium represent a local member of the mid-Famennian Souverain-Pré Formation (an important carbonate interval within the Condroz Sandstone Group). The lower part of this member contains silty bioclastic wackestones and packstones that are particularly rich in the problematical protists *Serrisinella* and *Dreesenulella*. Plurilocular foraminifera (*Septabrunsiina* and *Baelenia*) and rare solitary rugose corals (*Neaxon?* sp.) occur within crinoidal grainstones (tempestites) interfingering with the latter bioclastic wacke-/packstones and with red-stained stromatactoid spiculitic mudstones (carbonate mud mound core facies). Although *Serrisinella* is quite common in other mid-Famennian limestones of Belgium, *Dreesenulella* is almost endemic of the Baelen Member. Both genera apparently inhabited the muddy sediment-water interface, constituting meadows probably in zones of intermittently strong bottom currents. The taxonomic similarities between *Dreesenulella* and *Saccamminopsis* are discussed, as well as their possible affinities with the Xenophyophora and Kokomiacea. The first stages of

the *Septabrunkiina*–*Baelenia* foraminiferal lineage are analysed in detail. The taxonomic and palaeoecological positioning of *Serrisinella* and *Dreesenulella* adds to the discussion about the palaeobathymetry of the Baelen mud mounds and corroborates sedimentological evidence for their relatively shallow carbonate ramp depositional setting.

Keywords

Famennian Carbonate mounds Belgium Incertae sedis algae Protists Foraminifers

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