

Evolution of the bank to reef complex in the Devonian of the Holy Cross Mountains

Grzegorz Racki *Acta Palaeontologica Polonica* 37 (2-4), 1992: 87-182

Givetian and Frasnian stromatoporoid-coral limestone of the Kowala

Formation In the southern Holy Cross Mts Is subdivided stratigraphically. and
correlated with strata elsewhere on the basis of Identified sea-level cyclicity.

with support from conodonts and other selected benthic fossils. After the
Eifelian hypersaline sabkha phase. an extensive two-step regional colonization
of the Kielce Region carbonate platform took place during the
Eifelian/Givetian passage Interval and the Middle Givetian. At least four
deepening pulses resulted In intermittent drowning of the vast carbonate
platform and sequential replacement of the undifferentiated *Stringocephalus* biostromal bank by the
Sitkówka bank complex and. subsequently. by the Dyminy reef complex. The reef developed In the
central Dyminy belt as result of the early Frasnian accelerated sea-level rise after some period of biotic
stagnation near the Givetian-Frasnian boundary. Final demise of the reef resulted from combined eustatic
and tectonic movements during the late Frasnian major crisis Interval.

Key words: Reefs, lithostratigraphy, biostratigraphy, stromatoporoid, corals, cyclicity, benthic assemblages, eustasy, Devonian, Poland.

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