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# Crinoids from the Famennian of the Holy Cross Mountains, Poland 

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Disarticulated crinoid columnals and pluricolumnals from the Famennian of the Holy Cross area were analysed. Sixteen crinoid taxa were distinguished, only one of which is based on stems attributed to a calyx-based genus, and the others are classified within artificial supraspecific units. Two of these are new: Schyschcatocrinus levis sp. nov. and Cosmocrinus polonicus sp. nov. The described crinoid fauna shows distinct extinction-recovery temporal pattern: the Frasnian-Famennian crisis affected $50 \%$ of stem-based families and $70 \%$ of late Frasnian stem-based genera. The succession of crinoid faunas represented by three faunal intervals has been identified and correlated to standard conodont zones: FIa, Palmatolepis triangularis Zone (relic "Frasnian" crinoid assemblage Schyschcatocrinus delicatus-Calleocrinus kielcensis), FIb, Pa. crepida to Pa. marginifera zones (crinoid assemblage Calleocrinus kielcensis-Schyschcatocrinus levis) and FIc, Pa. trachytera to $S$. praesulcata zones (crinoid assemblage Cosmocrinus polonicus-Acbastaucrinus affectatus). The succession was controlled mostly by eustatic factors.

Key words: Crinoidea, Famennian, Holy Cross Mountains, extinction, recovery.
Edward Głuchowski [egluchow@wnoz.us.edu.pl], Wydział Nauk o Ziemi, Uniwersytet Śląski, ul. Będzińska 60, PL-41-200 Sosnowiec, Poland.

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