



Integrated stratigraphy of the Carnian biotic crises

Wolfram Kuerschner (1) and Leopold Krystyn (2)

(1) University of Oslo, Department of Geosciences, Oslo, Norway (w.m.kuerschner@geo.uio.no), (2) University of Vienna, Department of Paleontology, Vienna, Austria

The Carnian is characterized by a series of events that are expressed as significant facies changes and biotic turnovers, known as the Reingraben turnover, the Carnian pluvial event/episode/phase, the Carnian crisis... European Carnian marine deposits are characterized by the occurrence of extensive siliciclastic units that interrupt the predominantly marine carbonate successions while continental basins are characterized by the occurrence of fluvial channels that interrupt widespread sabkha deposits. These facies changes have been generally attributed to a humid episode in an otherwise predominantly dry climate. However, the exact stratigraphic age of these events and their correlation within and between the marine and terrestrial basins are not well established. In fact, major facies changes and associated sedimentary breaks hamper the development of a solid stratigraphic framework for the Carnian events. In this presentation we will summarize the current knowledge on the stratigraphy of the Carnian events and present new data from ongoing investigations in the Dinaric Alps, Bosnia-Herzegovina.