

First radiocarbon dated paleoecological data from the freshwater carbonates of the Danube-Tisza Interfluve

Abstract:

The first radiocarbon dates available on the evolution of the freshwater carbonates of the Danube-Tisza Interfluve are presented in this work along with their possible uses to precisely date paleoecological and paleoenvironmental changes. This work also gives the basis of a comparative analysis of the Holocene radiocarbon- dated profile of Csólyospálos with other Hungarian radiocarbon- dated profiles of the same age (Bátorliget, the Sárrét, etc.) and the implementation of a detailed chronological and regional paleoenvironmental study. Furthermore, our findings clearly demonstrate the importance of radiocarbon analysis in the study of terminal Pleistocene and Holocene Hungarian sedimentary sequences for accurately dating and reconstructing the chronological order of paleoenvironmental changes as well as the evolution of the natural endowments plus the regional comparison of the various profiles.

Keywords: alkaline lake; dolomite; freshwater limestone; Csólyospálos village; Hungary

DOI 10.1515/geo-2015-0003 Received April 14, 2014; accepted October 20, 2014