



The record of *Avetoichnus luisae* Uchman&Rattazzi, 2011 in Bisericani Formation (Eastern Carpathians, Romania)

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Abstract

The ichnogenus *Avetoichnus* and the corresponding type ichnospecies *Avetoichnus luisae* Uchman & Rattazzi, 2011 were first described based mainly on specimens from Alpine (Italy) and Carpathians (Poland) deep sea realm as complex trace fossil, horizontal and sub-horizontal, with a helical spiral string around a simple core, which can be straight or slightly curved. Ethologically, is interpreted as agrichnion generated by non-graphoglyptids belonging to *Nereites* Ichnofacies. In this paper is presented the occurrence of *Avetoichnus luisae* in Eocene sediments from red and green shale member of Bisericani Formation from Vrancea Nappe, Bistrita half-window, Eastern Carpathians. The studied specimens reveal a close relationship with shallow water deposits, *Cruziana* Ichnofacies, possible characterized by isolated depletion in nutrients that could induce farming behavior of the producer.

Keywords: *Avetoichnus luisae*, *Cruziana* Ichnofacies, Late Eocene, Vrancea Nappe, Eastern Carpathians.
