

Parasitic gastropod bioerosion trace fossil on Cenomanian oysters from Le Mans, France and its ichnologic and taphonomic context

Gérard Breton, Max Wisshak, Didier Néraudeau, and Nicolas Morel

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We describe and name *Loxolenichnus stellatocinctus* Breton and Wisshak *igen. et isp. nov.*, a bioerosion trace fossil on an Upper Cenomanian oyster from Le Mans (France). This trace is attributed here to a parasitic gastropod. The characteristics of this ichnospecies are a combination of one or several, vertical or oblique, complete penetrations, and an asymmetrical attachment etching (fixichnion) with a diagnostic set of stellate grooves increasingly distinct towards the margin of the trace. By including two former *Oichnus* ichnospecies, *Loxolenichnus halo* *comb. nov.* and *Loxolenichnus taddei* *comb. nov.*, *Oichnus*, is now constrained to pure predation traces (*praedichnia*). The numerous oysters collected from the Marnes à *Pycnodonte biauriculata* Formation show associated epibionts and encrusters as well as borers and scrapers. Encrusters comprise 24 taxa while bioerosion trace fossils comprise 17 ichnotaxa ranging from very rare (*Gnathichnus* and *Entobia* ichnofacies are represented on the shellgrounds, presumably alternatingly).


Key words: Gastropoda, Ostreidae, trace fossil, taphonomy, bioerosion, Cenomanian, Paris Basin.

Gérard Breton [gerard-breton@orange.fr], Géosciences, Université de Rennes I, Campus de Beaulieu, F-35042 Rennes Cedex, France; correspondence address: 6 rue des Réservoirs, 76600 Le Havre, France.

Max Wisshak [Max.Wisshak@senckenberg.de], Marine Research Department, Senckenberg am Meer, 26382 Wilhelms-haven, Germany. Didier Néraudeau [didier.neraudeau@univ-rennes1.fr],

Géosciences, Université de Rennes I, Campus de Beaulieu, F-35042 Rennes Cedex, France. Nicolas Morel [musee.vert@ville-lemans.fr], Muséum d'histoire naturelle "Musée Vert", 204 avenue Jean-Jaurès, F-72100 Le Mans, France.

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