

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

G rard Breton, Max Wisshak, Didier N raudeau, and Nicolas Morel

Acta Palaeontologica Polonica 62 (1), 2017: 45-57 doi:<https://doi.org/10.4202/app.00304.2016>

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   *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.

G rard Breton [gerard-breton@orange.fr], G osciences, Universit  de Rennes I, Campus de Beaulieu, F-35042 Rennes Cedex, France; correspondence address: 6 rue des R servoirs, 76600 Le Havre, France.

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

G osciences, Universit  de Rennes I, Campus de Beaulieu, F-35042 Rennes Cedex, France. Nicolas Morel [musee.vert@ville-lemans.fr], Mus um d'histoire naturelle "Mus e Vert", 204 avenue Jean-Jaur s, F-72100 Le Mans, France.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(1,571.5 kB\)](#)