

## 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](mailto: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](mailto:Max.Wisshak@senckenberg.de)], Marine Research Department, Senckenberg am Meer, 26382 Wilhelms-haven, Germany. Didier N raudeau [[didier.neraudeau@univ-rennes1.fr](mailto: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](mailto: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](https://creativecommons.org)), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

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