

Distribution of *Cyprideis torosa* (JONES, 1850) in Quaternary lakes of Central Germany

Anna PINT, Peter FRENZEL, Burkhard SCHARF & Volker WENNRICH

The widespread opportunistic ostracod *Cyprideis torosa* occurs in both, marginal marine environments and inland water bodies with slightly brackish up to hypersaline conditions. It tolerates a wide range of temperatures and even dysoxic environments. With the aid of characteristics of the carapaces, i.e. shape, structure, nodes and sieve-pores, ecological conditions of the past can be reconstructed. In saline inland waters, *Cyprideis torosa* is often associated with athalassic foraminifers, a small group of marine origin. In our study, Quaternary sediment cores from ancient and recent lakes of Central Germany show interglacial phases of increasing salinity as indicated by high abundance of *Cyprideis torosa*, likely displacing other taxa. Temporary salinity phases of these waters were formed as a result of the contact of groundwater with evaporate-bearing Keuper sediments (Triassic). However, analyses of sieve-pores and the development of nodes on the carapaces indicate an oligohaline environment. To the present knowledge, similar sites in Central Germany containing *Cyprideis torosa* are Voigtstedt, Bilzingsleben, Siebleben, Süssee and Salziger See.

Authors addresses:

Anna Pint

Universität zu Köln, Geographisches Institut, Albertus-Magnus-Platz, D-50923 Köln, Germany; pinta@uni-koeln.de

Peter Frenzel

Friedrich-Schiller-Universität Jena, Institut für Geowissenschaften, Burgweg 11, D-07749 Jena, Germany; Peter.Frenzel@uni-jena.de

Burkhard Scharf

Ellhornstr. 21, D-28195 Bremen, Germany; Burkhard.w.scharfqt-online.de

Volker Wennrich

Universität zu Köln, Institut für Geologie und Mineralogie, Zülpicher Straße 49a, D-50674 Köln, Germany; Volker.Wennrich@uni-koeln.de