



## On Recent species of *Tonnacypris* Diebel & Pietrzeniuk, 1975 (Crustacea, Ostracoda), with new species descriptions from Mongolia

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### Abstract

The ostracod species *Tonnacypris estonica* (Järvekülg, 1960), *T. tonnensis* (Diebel & Pietrzeniuk, 1975), *T. edlundi* n. sp. and *T. mazepovae* n. sp. are here reported from Mongolia. Redescriptions of females of *T. glacialis* (Sars, 1890) and males of *T. lutaria* (Koch, 1838) are included. The revised generic diagnosis maintains the main character of the anteroventral peg on the calcified part of the inner lamella of the left valve, but this character has a significant level of morphological variability between species of this genus. This is also true for several characters of soft parts, which results in a broader concept for the genus. Different ecological strategies and reproductive modes are present. New records also change the evolutionary and zoogeographical scenario of the genus.

**Key words:** taxonomy, Ostracoda, morphology, zoogeography

### Introduction

There is an increased interest in Asian ostracod faunas, as some ostracod lineages that became extinct in Europe during the Pleistocene glaciations might have survived in the East-Palaearctic. Certain so-called ‘Lazarus-species’ were recently discovered alive in Asia, for example *Cyclocypris diebeli* Absolon, 1973 (Matzke-Karasch *et al.* 2004), *Cryptocandona brehmi* Klie, 1934 (Namiotko & Danielopol 2002), *Ilyocypris salebrosa* Stepanaitys, 1960 (Mischke & Schudack 2001), *Tonnacypris tonnensis* Diebel & Pietrzeniuk, 1975 and *T. convexa* Diebel & Pietrzeniuk, 1975 (Schornikov 2007). Moreover, in the last couple of years the