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## A new species of *Sinocorophium* from the Yangtze estuary (Crustacea: Amphipoda: Corophiidae: Corophiinae: Corophiini), China

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### Abstract

Amphipods collected from the Yangtze estuary, Shanghai, China are described as a new species, *Sinocorophium dongtanense*. It is closely allied to *Sinocorophium homoceratum* Yu, 1938 but differs markedly in the inner lateral side of peduncular article 4 of male antenna 2 having two rows of teeth.

**Key words:** Amphipoda, Corophiidae, *Sinocorophium dongtanense*, new species, Yangtze estuary, China

### Introduction

While working on a systematic study of the macrobenthic fauna of the Yangtze estuary, an undescribed species of the genus *Sinocorophium* Bousfield & Hoover, 1997 was found from the intertidal zone of Yangtze estuary. Bousfield & Hoover (1997) divided the large genus *Corophium* Latreille, 1806, into thirteen tightly diagnosed genera based on a phenetic analysis. Myers & Lowry (2003) established the tribe Corophiini to accommodate these genera. The genus *Sinocorophium* is morphologically characterized by having uncoalesced urosomites, uropod 1 laterally inserted, peduncular article 2 of antenna 2 with a large gland cone, palp article 2 of maxilliped elongated and a rounded posteroventral corner of epimeron 3 (Bousfield & Hoover 1997). To date, eleven species are known, from marine to brackish waters (Shen 1955; Bousfield & Hoover 1997; Kim 2012). Six species have been reported from the Chinese waters (Table 1).

The higher taxonomy of the family Corophiidae Leach, 1814 (25 genera, 149 species according to Ahyong et al. 2011) is not discussed here, which is beyond the scope of this paper. In this paper we describe and illustrate the new species.

**TABLE 1.** Species of *Sinocorophium* from Chinese waters with relevant literature.

Species name and author	Geographical distribution and habitat	References
<i>S. heteroceratum</i> (Yu, 1938)	Bohai Sea, intertidal zone to shallow water	Yu, 1938; Ren, 2007
<i>S. homoceratum</i> (Yu, 1938)	Bohai Sea, intertidal zone to shallow water	Yu, 1938; Ren, 2007
<i>S. lamellatum</i> (Hirayama, 1984)	East China Sea and South China Sea, shallow water and estuaries	Ren, 2007
<i>S. monospinum</i> (Shen, 1955)	Yellow Sea and East China Sea, shallow water and estuaries	Shen, 1995; Ren, 2007
<i>S. sinense</i> (Zhang, 1974)	China seas, intertidal zone to shallow water	Zhang, 1974; Ren, 2007
<i>S. triangulopedarum</i> (Hirayama, 1990)	South China Sea, shallow water and estuaries	Hirayama, 1990; Ren, 2007

margin are serrated and by antenna 2, peduncular article 4 which has two large ventrodiscal teeth. It differs from the latter in the inner lateral side of peduncular article 4 of male antenna 2 which has two rows of teeth, the basal half of peduncular article 5 which has two strong teeth and first flagellar article which bears small teeth.

**Distribution and habitat.** *Sinocorophium dongtanense* is currently only known from the Yangtze estuary, inhabiting U-type tube of soft mud in intertidal zone (Fig. 3). This species is a true estuarine component, and the range of salinities for its occurrence was 0–25‰.

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