



<http://dx.doi.org/10.11646/zootaxa.3827.4.6>

<http://zoobank.org/urn:lsid:zoobank.org:pub:2C480B30-8005-4F66-8FB3-5C54A44F68F3>

## A new species of *Asterocheres* (Copepoda, Siphonostomatoida) with a redescription of *A. complexus* Stock, 1960 and *A. sarsi* Bandera & Conradi, 2009

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### Abstract

The present paper reviews the material of three species of *Asterocheres* Boeck 1859 deposited in four different Zoological European museums as part of the ongoing taxonomical revision of this genus. *Asterocheres sarsi* Bandera & Conradi 2009, the species described by Sars in 1915 as *Ascomyzon latum* (Brady 1880) and lately recognized as a distinct species by Bandera and Conradi in 2009 is fully described in this paper from material collected by Sars in Norway in 1915 and deposited in The Natural History Museum of the University of Oslo. *Asterocheres complexus* Stock, 1960 which has been sometimes confused with *A. sarsi* is redescribed from material collected by Stock in France in 1959 and deposited in the Zoological Museum of the University of Amsterdam. Furthermore, a new species, previously misidentified as *A. suberitis* Giesbrecht 1897, from the Norman's collection of The Natural History Museum of London, is described as *A. eugenioi*, new species. These three species, *A. complexus*, *A. eugenioi*, and *A. sarsi* share the general appearance of body thanks to the pointed posterolateral angle of the epimeral area of somite bearing leg 3, sometimes slightly produced into backwardly directed processes, and somite bearing leg 4 largely concealed under somite bearing leg 3.

**Key words:** *Asterocheres*, Siphonostomatoida, Norman's Collection, Sars, Stock

### Introduction

Some years ago a partial revision of the genus *Asterocheres* Boeck, 1859 was initiated in order to clarify the rather confused systematics and phylogenetic relationships of this symbiotic genus. This ongoing taxonomical revision has been based on both material loaned by various museums and material collected by the authors, and has resulted in: (1) the description of six new species (Bandera et al. 2005, 2007; Conradi et al. 2006; Bandera & Conradi 2009b, 2013; Conradi & Bandera 2011), (2) the redescription of 21 species of *Asterocheres* (Bandera & Conradi 2009a, 2013, in prep.; Conradi & Bandera 2011), (3) the reinstatement of three species previously considered as junior synonyms (Bandera & Conradi 2009b), (4) the ranking of *A. abyssi* (Hansen 1923) as a species *incertae sedis* (Bandera & Conradi 2009a), (5) the reinterpretation of the original description of *A. stimulans* Giesbrecht, 1897 (Bandera & Huys 2008); (6) the removal of *A. mucronipes* Stock 1960 to a new genus, *Stockmyzon* Bandera & Huys 2008 (Bandera & Huys 2008), (7) the relegation of *A. violaceus* (Claus 1889) to a junior synonym of *A. echinicola* (Norman 1868), and (8) the recognition of *Ascomyzon latus* (Brady 1880) *sensu* Sars (1915) as a distinct species (Bandera & Conradi 2009b). Here, we describe this last species as *Asterocheres sarsi* Bandera & Conradi 2009 from material collected by Sars in Norway in 1915 and deposited in The Natural History Museum of the University of Oslo, and redescribe another asterocherid species, *A. complexus* Stock 1960 that exhibit similarities with *A. sarsi* species to which has been sometimes confused (Sars 1915; Stock 1960). The specimens of *A. complexus* are from material collected by Stock in France in 1959 and deposited in the Zoological Museum of the University of Amsterdam. Furthermore a new species, previously identified as *A. suberitis* Giesbrecht 1897, from the Norman's collection of The Natural History Museum of London, is described as *A. eugenioi*.

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