

ZOOTAXA

1598

**A revision of the family Typhlotanaidae Sieg 1984
(Crustacea: Tanaidacea)
with the remarks on the Nototanaidae Sieg, 1976**

MAGDALENA BŁAŻEWICZ-PASZKOWYCZ



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Abstract

Recent tanaidacean material collected from Antarctic waters, primarily during the ANDEEP expeditions of 2002 and 2005, includes a number of new taxa attributable to the families Nototanaidae and Typhlotanidae *sensu* Sieg. Analysis of this material has exposed a problem with the recent contention of the two families, and has revealed consistent morphological trends which support the distinction of these two families.

In the present paper, examination of both museum specimens and newly-collected material, has allowed a re-analysis based on a series of detailed morphological observations, resulting in a new definition of the families Typhlotanidae Sieg, 1984 with the establishment of five new genera (*Hamatipeda* n. gen., *Larsenotana* n. gen., *Pulcherella* n. gen., *Torquella* n. gen., *Typhlamia* n. gen.), a the description of thirteen new species, the redescription of fifteen species, and the construction of keys for the determination of typhlotanid genera and of the species of three newly-erected genera.

Key words: Tanaidacea, Nototanaidae, Typhlotanidae, ANDEEP, Antarctic, abyssal, *Hamatipeda*, *Larsenotana*, *Meromonakantha*, *Paratyphlotana*, *Peraeospinosus*, *Torquella*, *Typhlamia*, *Typhlotana*, *Pulcherella*

Introduction

Recent tanaidacean material collected from Antarctic waters, primarily during the ANDEEP expeditions of 2002 and 2005, includes a number of new taxa attributable to the families Nototanaidae and Typhlotanidae *sensu* Sieg (see below). Analysis of this material has exposed problems with recent suggestions that the two families should be united, and has revealed consistent morphological trends which support the distinction of these two families. In order to undertake a sensible classification of these taxa, it has been necessary to re-examine the genera attributed to these families in detail, based on as much material, including types, as is presently feasible.