

## New records of lower Diptera ("Nematocera") from Finnmark, northern Norway

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Records of 15 species of the nematocerous Diptera families Ptychopteridae, Dixidae, Thaumaleidae, Bibionidae and Canthyloscelidae from Finnmark are presented. Eight species, *Ptychoptera hugoi* Tjeder, 1968, *Dixa nebulosa* Meigen, 1830, *Dixella borealis* (Martini, 1928), *Dixella dyari* (Garret, 1924), *Dixella obscura* (Loew, 1849), *Thaumalea truncata* Edwards, 1929, *Bibio clavipes* Meigen, 1818 and *Synneuron annulipes* Lundström, 1910 are recorded for the first time from Finnmark. The taxonomy of *Thaumalea truncata* is commented on.

Key words: Ptychopteridae, Dixidae, Thaumaleidae, Bibionidae, Canthyloscelidae, distribution, Finnmark, Norway.

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### Introduction

During the summer of 2010, the Norwegian Taxonomy Initiative funded a large-scale inventory of aquatic insects in Finnmark, northern Norway (Ekrem *et al.* 2012). Mainly adult specimens were collected, and the fieldwork yielded a large material of many different groups. Until now, five contributions have dealt with various Diptera families from this inventory (Andersen & Kvifte 2012; Kvifte 2012, 2013; Kvifte & Andersen 2012; Søli & Rindal 2012). In these papers, many new records have been given, and more than 80 species have been identified as new to science (Ekrem *et al.* 2012; Salmela *et al.* 2012; Søli & Rindal 2012).

The present paper contributes further records of

lower Diptera of five families previously regarded as belonging to the suborder "Nematocera". This group is, however, paraphyletic with respect to the Brachycera, and a new classification is under development based on modern phylogenetics. The classification in the present paper follows Amorim & Yeates (2006).

### Material and methods

Most of the material was collected in Malaise traps, but a few specimens were also taken in light traps or with sweep nets. Ekrem *et al.* (2012) described the sampling methods and the localities in detail. For Bibionidae, some additional, older material is also included. The Ptychopteridae were identified