

## Empidoidea (Diptera) from Finnmark, northern Norway

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Records of 215 species of Empidoidea from Finnmark, northern Norway, are presented based partly on material collected in 2010 during a survey of freshwater insects and insects inhabiting humid habitats in the region, partly on older material. Of these, one species belongs to Brachystomatidae, 88 to Empididae, 67 to Hybotidae and 59 species to Dolichopodidae. Eight species are recorded for the first time from Norway, namely *Rhamphomyia (Megacyttarus) paradoxa* Wahlberg, 1844; *R. (Pararhamphomyia) breviventris* Frey, 1913 (Empididae); *Bicellaria uvens* Melander, 1928; *Oedalea freyi* Chvála, 1983; *Platypalpus sordidus* (Zetterstedt, 1838) (Hybotidae); *Campsicnemus articulatus* (Zetterstedt, 1843); *Hydrophorus geminus* Frey, 1915; *Rhaphium holmgreni* (Mik, 1878); and *R. tridactylum* (Frey, 1915) (Dolichopodidae). A checklist of the 225 species of Empidoidea so far known to occur in Finnmark is provided.

Key words: Diptera, Empidoidea, Brachystomatidae, Dolichopodidae, Empididae, Hybotidae, new records, Finnmark, Norway.

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### Introduction

The dipteran superfamily Empidoidea includes the families Hybotidae, Empididae, Atelestidae, Brachystomatidae and Dolichopodidae, all of which occur in Fennoscandia. As evidenced from both morphological and molecular data, these families form a monophyletic group within the Brachycera (Sinclair & Cumming 2006; Moulton & Wiegmann 2007).

Historically, the empidoidean fauna of Finnmark has been poorly studied. Zetterstedt (1838) recorded 19 species from the region. Siebke (1877) later referred to these records. Chvála (1975, 1983, 1994, 2005) recorded 45 species of the families Hybotidae and Empididae from Finnmark and Jonassen (1988, 1998, 2009)

added records of a few more species. Jonassen (1996a, b) listed 5 species of aquatic Empididae and 10 species of aquatic Dolichopodidae from Finnmark, but without giving exact locality information. Several records of Hybotidae from Finnmark are also displayed on Artskart (2013).

Below new records of 215 species of Empidoidea from Finnmark are presented, of which one species belongs to Brachystomatidae, 88 to Empididae, 67 to Hybotidae and 59 species to Dolichopodidae, thus increasing the number of species known from the region considerably. In the material, five species appear to be new to science and will be described elsewhere. Most of the material was collected in 2010 during the project "Insects inhabiting freshwater and humid habitats in Finnmark, northern Norway" (Ekrem *et al.*