

Moth flies (Diptera, Psychodidae) from Finnmark, northern Norway

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Records of 18 Psychodidae species collected in Finnmark, northern Norway in 2010 are presented. *Pneumia ussurica* (Wagner, 1994), *Psychoda (Tinearia) lativentris* Berdén, 1952 and *Psychoda (Psychoda) alticola* Vaillant, 1973 have not previously been recorded from Norway and in addition 11 species are recorded from Finnmark for the first time. *P. alticola* is redescribed and figured and *Psychoda dolomitica* Salamanna & Sarà, 1980 **syn. nov.**, is placed as a synonym of *P. alticola*. A note on the morphology of *P. ussurica* is given.

Key words: Psychodidae, *Pneumia ussurica*, *Psychoda (Tinearia) lativentris*, *Psychoda (P.) alticola*, distribution, Finnmark, Norway.

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Introduction

Moth flies (Diptera, Psychodidae) is a species-rich family of small, fuzzy gnats. Most species are aquatic or semiaquatic, but the family exhibits a wide and still poorly explored ecological diversity. Worldwide about 2.900 species are described, but the fauna in most parts of the world remains poorly studied and the actual number of species is clearly much higher (see e.g. Curler & Courtney 2009).

Recently, Kvifte *et al.* (2011) compiled a revised check list of the Norwegian moth flies, listing 36 species. They also suggested that several species remain undetected, since there has been little systematic collection of psychodids in Norway. The present paper presents records of Psychodidae collected in Finnmark, northern Norway during 2010. Only four species have previously been recorded from Finnmark, viz. *Parabazarella subneglecta* (Tonnoir, 1922), *Pneumia stammeri* (Jung, 1954), *Psychoda phalaenoides* (Linnaeus, 1758) and *Psychoda cultella* Salmela, Kvifte & More, 2012 (Vaillant

1983, Håland & Andersen 1996, Kvifte *et al.* 2011, Salmela *et al.* 2012). With the present records the list of Psychodidae from Finnmark now comprise 18 species and a total of 40 moth fly species are known to occur in Norway.

Material and methods

Most of the material was collected in Malaise traps, but some specimens were also caught with sweep nets and in light traps. The material was first sorted to morphospecies using a stereomicroscope. Then samples of each morphospecies were selected for identification and each individual was dissected and mounted on slides in Euparal or Canada balsam. Only slide-mounted specimens were identified while the remaining unidentified specimens are stored in 80% alcohol.

DNA barcodes were obtained in cooperation with the Barcode of Life Data Systems (<http://www.boldsystems.org>). Legs of selected specimens were placed in 96–100% ethanol in a lysis microplate and shipped to the Biodiversity