

# Further records of Hoverfly species (Diptera, Syrphidae) in Norway

Øivind Gammelmo & Tore R. Nielsen

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A hoverfly material, mainly from the collections of Natural History Museum Oslo, is published. Three species, *Epistrophe olgae* Mutin, 1993, *Xanthogramma stackelbergi* Violovitsh, 1975 and *Xylota ignava* (Panzer, 1798) are reported new to the Norwegian fauna, and there is also a second record of *Temnostoma sericomylaeforme* (Portschinsky, 1887).

Key words: Diptera, Syrphidae, new records, Norway.

Øivind Gammelmo, BioFokus, Gaustadalléen 21, NO-0349 Oslo, Norway.  
E-mail: oivind@biofokus.no

Tore R. Nielsen, Sandvedhagen 8, NO-4318 Sandnes, Norway. E-mail: tore@nielsen.cc

## INTRODUCTION

The Norwegian hoverfly fauna was revised and summarized in a check list by Nielsen (1999), followed by two supplementary lists (Nielsen 2002, 2005). In addition several publications dealing with the Norwegian hoverfly fauna has been published since 1999; Falck 1999, Nielsen 2003, Lønnve & Nielsen 2003, Gammelmo & Aarvik 2007.

Records of each species include the EIS-grid number, based on 50 × 50 km squares (Endrestøl 2005). Regional abbreviations are identical to those given by Økland (1981).

Hoverflies were surveyed for the 2006 Norwegian Red List (Kålås et al. 2006). A total of 963 species of Diptera were evaluated for listing, of which 564 species were chosen for detailed red List assessment (Gammelmo et al. 2006). In all, there are 233 species of Diptera on the 2006 Red List, of which 62 are hoverflies.

## THE SPECIES

The paper reports on new material of rare or less common species, mainly from the Natural History Museum Oslo (NHMO).

Codes: \* (new to Norway). Red List codes: DD (Data Deficient), EN (Endangered), NT (Near Threatened), VU (Vulnerable). Abbreviations for counties: Ø (Østfold); AK (Akershus); HE (Hedmark); O (Oppland); B (Buskerud); VE (Vestfold); TE (Telemark); AA (Aust-Agder); VA (Vest-Agder); R (Rogaland); HO (Hordaland); SF (Sogn og Fjordane); MR (Møre og Romsdal); ST (Sør-Trøndelag); NT (Nord-Trøndelag); N (Nordland); TR (Troms), F (Finmark). Abbreviations of subdivisions: I (interior); Y (coastal); S (southern); N (northern); V (western); Ø (eastern). Collections: TRN (Tore Randulff Nielsen (private)).

<sup>EN</sup> ***Arctophila bombiformis* (Fallén, 1810)**  
OS, Lunner: Grindvoll (EIS 36) 4 July 1985, 1♂,  
and Grindvoll, Vestern 3–6 July 2006, 1♀, both