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## Hoverfly (Diptera, Syrphidae) species collected near Rowardennan, Loch Lomondside, August, 2011

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A field outing to the Scottish Centre for Ecology and the Natural Environment (SCENE) at Rowardennan, Stirlingshire, followed the Sixth International Symposium on the Syrphidae (Diptera). It was the final day of this biennial meeting, held at the Hunterian Museum, University of Glasgow, during which 72 delegates had debated and discussed the systematics, ecology and biology of the hoverflies on a worldwide scale. The field outing on 8<sup>th</sup> August was essentially an opportunity to relax after three days of being indoors listening to lectures and viewing poster presentations on research in progress. A number of the delegates took the opportunity to record the hoverfly species that could be seen around the immediate environs of the SCENE field station buildings on the Ross peninsula. The following list is the product of this effort and is a good representation of the expected fauna. The sunny weather undoubtedly helped in producing a total of 63 species, a few of which are commented on individually in the following two paragraphs.

During the symposium a new edition of distribution maps for hoverflies in the United Kingdom was launched which contains new data on altitudinal and habitat preferences and phenology. Analyses of trends have been included for both recording effort and recent changes in species' ranges (Ball, *et al.*, 2011). This publication is used here to indicate species that deserve special mention for various reasons. Some are scarce in the north of Britain such as *Cheilosia proxima* and *C. vernalis*. Species that require good quality wooded habitat include *Arctophila superbiens*, *Ferdinandea*

*cuprea* and *Xylota jakuatorum*. Although these three species have been recorded previously in the area it is good to know they are still resident. With similar habitat requirements, but developing as larvae in woodland fungi, are records of *Cheilosia longula* and *C. scutellata*. Generally scarce species of local note are *Didea fasciata*, *Dasysyrphus pinastri*, *Helophilus trivittatus*, *Meliscaeva compositorum*, *M. umbellatorum* and *Scaeva pyrastris*. One of the more interesting species is *Eriozona syrphoides* which became established in Britain about 40 years ago in association with spruce plantations. These trees support an aphid species, *Cinara piceae* (Panzer), that the larvae utilise as a food source. There are only thirteen other 10Km Ordnance Survey grid squares in Scotland where it has been seen since 2000 (Ball, *et al.*, 2011).

An outstanding addition to Scotland's fauna as a result of this meeting is *Ferdinandea ruficornis*. The latest distributional data show no known records north of Yorkshire (Ball, *et al.*, 2011). This species is regarded as rare or even endangered in many areas of mainland Europe. Like its more common sibling, *F. cuprea*, the larvae develop in sap in deciduous trees. Often, but not exclusively, these are oak trees in which this resource has been created by the tunnelling activities of the goat moth (*Cossus cossus* Linn.). The larvae of *F. ruficornis* have not been described (Rotheray, 1993) but are presumed to be very similar to *F. cuprea*. Goat moths are known from Central Scotland but are rare and have not been positively recorded on Lochlomondside (Knowler, 2010). Combined searching for the larvae of the moth and both species of *Ferdinandea* in the area around SCENE is an obvious strategy. More details of the Lochlomondside finding of *F. ruficornis* have been written up (Ricarte, *et al.*, 2011).

### Species list in alphabetical order

Nomenclature follows Chandler (1998) with any changes or species added since then given in Ball *et al.* (2011). The asterisk \* denotes records that were provided by Jeroen van Steenis just south of the field station on 2<sup>nd</sup> August, 2011, within the same NGR 10Km square as SCENE.

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Species	Recorder
<i>Arctophila superbiens</i> (Müller) *	(JvS)
<i>Baccha elongata</i> (Fabricius)	(MR)
<i>Cheilosia antiqua</i> (Meigen)	(ASs)
<i>Cheilosia bergenstammi</i> Becker	(EGH, JvS; WvS)
<i>Cheliosia fraterna</i> (Meigen)	(RM)
<i>Cheilosia illustrata</i> (Harris)	(JSetal)
<i>Cheilosia longula</i> (Zetterstedt)	(WvS)
<i>Cheilosia proxima</i> (Zetterstedt) *	(JvS)
<i>Cheilosia scutellata</i> (Fallén)	(JvS; WvS)
<i>Cheilosia vernalis</i> (Fallén)	(MR)
<i>Chrysogaster solstitialis</i> (Fallén)	(ASs)

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<i>Chrysotoxum arcuatum</i> (Linnaeus)	(ASs; JSet al; WvS)
<i>Chrysotoxum bicinctum</i> (Linnaeus)	(ASs; JSet al; JvS)
<i>Dasysyrphus albostrigatus</i> (Fallén)	(EGH; MM)
<i>Dasysyrphus pinastri</i> (De Geer)	(KW)
<i>Dasysyrphus tricinctus</i> (Fallén)	(EGH; JSet al; JvS)
<i>Didea fasciata</i> Macquart	(ASs)
<i>Epistrophe grossulariae</i> (Meigen)	(AR; EGH; KW; WvS)
<i>Episyrphus balteatus</i> (De Geer)	(ASs; EGH; JSet al; KW; RW; WvS; ZN)
<i>Eriozona syrphoides</i> (Fallén)	(ASs)
<i>Eristalis abusivus</i> Collin *	(JvS)
<i>Eristalis interruptus</i> (Poda)	(RM)
<i>Eristalis intricarius</i> (Linnaeus)	(NJ; JSet al)
<i>Eristalis pertinax</i> (Scopoli)	(AR; ASs; EGH; JSet al; KW; RW; WvS)
<i>Eupeodes corollae</i> (Fabricius)	(JSet al)
<i>Ferdinandea cuprea</i> (Scopoli)	(MR)
<i>Ferdinandea ruficornis</i> (Fabricius)	(JQ; determined by AR & ZN]
<i>Helophilus pendulus</i> (Linnaeus)	(JSetal; KW; WvS;)
<i>Helophilus trivittatus</i> (Fabricius)	(JSet al)
<i>Leucozona lucorum</i> (Linnaeus)	(JSet al; KW; RW; WvS)
<i>Leucozona glauca</i> (Linnaeus)	(AR; ASs; JSet al; KW; WvS; ZN)
<i>Melangyna compositarum</i> (Verrall)	(AR; WvS; ZN)
<i>Melangyna umbellatarum</i> (Fabricius) *	(JvS) [a female]
<i>Melanostoma mellinum</i> (Linnaeus)	(ASs, JSet al; WvS; ZN)
<i>Melanostoma scalare</i> (Fabricius)	(ASs; JSet al; KW; RW; WvS; ZN)
<i>Meliscaeva auricollis</i> (Meigen)	(ASs; JvS; WvS)
<i>Meliscaeva cinctella</i> (Zetterstedt)	(AR; ASs; JSet al; KW; RW; WvS; ZN)
<i>Myathropa florea</i> (Linnaeus)	(AR; ASs; JSet al; JvS; WvS)
<i>Neoascia podagarica</i> (Fabricius)	(MR; JSet al)
<i>Orthonevra nobilis</i> (Fallén)	(RM)
<i>Platycheirus albimanus</i> (Fabricius)	(ASs; JSet al ; KW; JvS; WvS; ZN)
<i>Platycheirus clypeatus</i> (Meigen)	(ASs; JSet al; MR)
<i>Platycheirus fuliviventris</i> (Macquart)	(RM)
<i>Platycheirus granditarsis</i> (Forster)	(JSet al)
<i>Platycheirus nielsenii</i> Vockereth	(WvS)
<i>Platycheirus occultus</i> Goeldlin de T., et al.	(WvS)
<i>Platycheirus peltatus</i> (Meigen)	(ASs)
<i>Rhingia campestris</i> Meigen *	(JvS)
<i>Riponnensia splendens</i> (Meigen)	(AR; ZN)
<i>Scaeva selenitica</i> (Meigen)	(AR; WvS; ZN)
<i>Sericomyia silentis</i> (Harris)	(AR; ASs; JSet al; KW; RW; WvS; ZN)
<i>Sphaerophoria interrupta</i> (Fabricius) *	(JvS)
<i>Sphegina clunipes</i> (Fallén)	(JvS; MR)
<i>Sphegina elegans</i> Schummel	(JvS; WvS)
<i>Sphegina sibirica</i> Stackelberg	(AR; ASs; JSet al; NJ; WvS; ZN)
<i>Syrpitta pipiens</i> (Linnaeus)	(JSet al)
<i>Syrphus ribesii</i> (Linnaeus)	(AR; ZN)
<i>Syrphus torvus</i> Osten Sacken	(WvS)
<i>Syrphus vitripennis</i> Meigen	(AR; KW; JSet al; WvS; ZN)
<i>Volucella pellucens</i> (Linnaeus)	(AS; ZN)
<i>Xylota jakatorum</i> Bagachanova	(WvS)
<i>Xylota segnis</i> (Linnaeus)	(AR; ASs; EGH; JSet al; KW; RW; WvS; ZN)
<i>Xylota sylvarum</i> (Linnaeus) *	(JvS)

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#### Recorders

Antonio Ricarte (AR); Alan Stubbs (AS); Axel Ssymank (ASs); Geoff Hancock (EGH); Javier Quinto (JQ); Jeroen van Steenis (JvS); Menno Reemer (MR); Nigel Jones (NJ); John Smit, Maarten de Groot; Catalina Guittierrez-Chacon, Jiri Hadrava (JH), Michael Mikal, working as a group (JSet al), Miriam Morales (MM); Roger Morris (RM); Richard Weddle (RW); Wouter van Steenis (WvS); Kenn Watt (KW); Zorika Nedeljkovic (ZN).

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#### **ACKNOWLEDGEMENTS**

Thanks are due to Glasgow Natural History Society, British Entomological and Natural History Society, Dipterists Forum, Malloch Society, B&S Entomological Supplies and the Samuel Wendell Williston Diptera Research Fund (administered by the Smithsonian Institution, Washington DC, USA) as sponsors of the Symposium. Excellent hospitality was provided at SCENE, and particular thanks to Rona Brennan, bursar and provider of catering. The compiler of this list is grateful to all the participants for their efforts and company on the day.

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