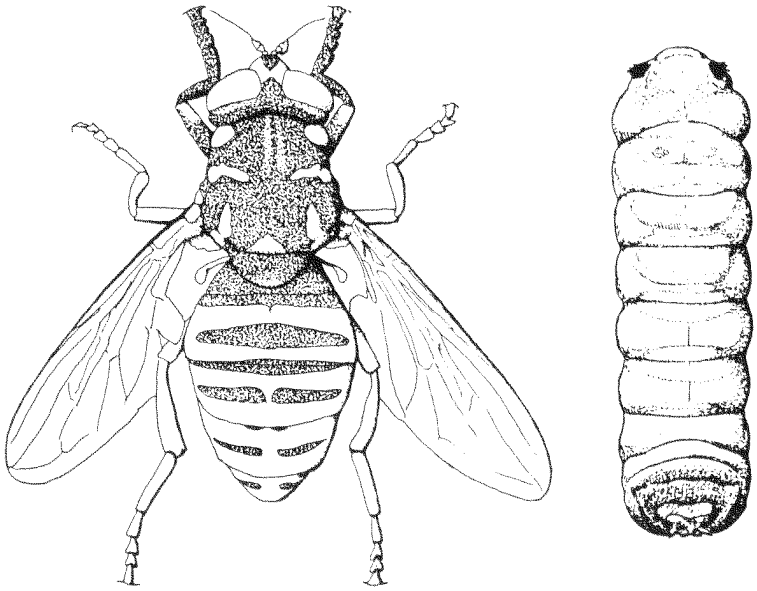
THE StN DATABASE FILES 2024

M. C. D. Speight and E. Castella



SYRPH THE NET: THE DATABASE OF EUROPEAN SYRPHIDAE (DIPTERA)

Volume 121

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THE StN DATABASE FILES, 2024

Chapter 1: INTRODUCTION

With the group of StN files issued in any one year a "Readme" me file has normally been produced, to summarise the changes and additions made, within the database, since the last file issue. The last general issue of StN files was in 2020. There is so much information to present on the changes introduced since then it has been decided to provide it as an StN volume of its own.

Nomenclatural changes introduced since 2020 are listed first. They apply to all StN files. The other changes mostly relate to the content of individual files and are grouped according to the files to which they apply. A list of the publications incorporated into the StN files since 2020 is also provided.

In earlier versions of the database, a list of publications, referring to the StN database files since last issue of the database, has been provided, but it has become too time-consuming to produce. As an alternative, an informative sample is offered, in the form of the references citing use of at least one component of StN, in Web-of-Science™, , in the period 2000-2024.They are listed in Appendix 1 and cumulative totals for each year, from 2000, are shown here graphically in Figure 1.

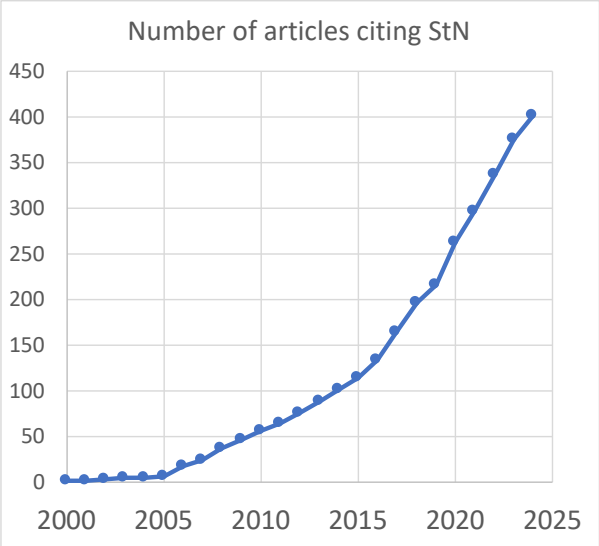

Figure 1: Cumulated number of publications citing Syrph-the-Net database files, in the Web-of-Science™ (Cited reference search tool, retrieved on September 27th 2024: data and figure provided by E. Castella).

Chapter 2: LIST OF THE StN 2024 FILES

The last release of the StN spreadsheets was in 2020.There was a partial release of StN files in 2021, but no release of files in 2022 or 2023. The 2024 files are as follows:

Spreadsheets

Speight, M.C.D., Castella, E., Sarthou, J.-P. & Lebard, T. (2024) StN 2024. In: Syrph the Net on CD, Issue 13. ISSN 1649-1917. Syrph the Net Publications, Dublin.

Text files

Speight, M. C. D. (2024) Species accounts of European Syrphidae, 2024. *Syrph the Net, the database of European Syrphidae (Diptera)*, vol. 115, 381 pp., Syrph the Net publications, Dublin.

Cornuel-Willermoz, A. et Lebard, T. (2024) Catalogue des syrphes de Corse. *Syrph the Net, the database of European Syrphidae (Diptera)*, vol. 116, 61 pp, Syrph the Net publications, Dublin.

Speight, M. C. D., Sarthou, J.-P., Vanappelghem, C. & Lebard, T. (2024) The departmental distribution of syrphid species in France, 2024/distribution départementale des syrphes de France, 2024. *Syrph the Net, the database of European Syrphidae (Diptera)*, vol. 117, 93 pp., Syrph the Net publications, Dublin.

Speight, M. C. D. and de Courcy Williams, M. (2024) European syrphid genera: Portraits of representative species, 2024 Portraits d'espèces représentatives de genres de Syrphidae Européens, 2024. *Syrph the Net, the database of European Syrphidae (Diptera)*, vol. 118, 141 pp. Syrph the Net publications, Dublin.

Speight, M. C. D., Castella, E. & Lebard, T. (2024) StN Database: content and glossary of terms. 2024. *Syrph the Net, the database of European Syrphidae (Diptera)*, vol. 119, 107 pp, Syrph the Net publications, Dublin.

Speight, M. C. D., Castella, E., Sarthou V. & Lebard, T. (2024) Base de Données StN: Contenu et Glossaire des termes 2024. *Syrph the Net, the database of European Syrphidae (Diptera)*, vol. 120, 121 pp, Syrph the Net publications, Dublin.

Speight, M. C. D. & Castella, E. (2024) The StN database files, 2024. *Syrph the Net, the database of European Syrphidae (Diptera)*, vol. 121, 52 pp., Syrph the Net publications, Dublin.

With the exception of vols. 119 and 120 and the spreadsheets, the StN 2024 files will be made available on ResearchGate. The 2024 spreadsheets and volumes 119 and 120 are available to registered StN recipients on request, by writing to Martin Speight, at speightm@gmail.com

Chalcosyrphus piger : Corsican form (photo: M C D Speight)

Chapter 3: SUMMARY OF CHANGES INTRODUCED TO THE StN FILES SINCE 2020

3.1 Nomenclatural changes adopted

2024	2020
Merodon analis Meigen, 1822	*Merodon haemorrhoidalis* Sack, 1913
Merodon aureus Fabricius, 1805	*Merodon aeneus* Megerle in Meigen, 1822
Merodon aurifer Loew, 1862	*Merodon distinctus Palma, 1863*
Merodon clavipes (Fabricius, 1781)	*Merodon splendens* Hurkmans, 1993
Merodon natans (Fabricius, 1794)	*Merodon annulatus* (Fabricius, 1794)
Merodon rubidiventris Costa, 1884	*Merodon mariae* Hurkmans, 1993
Merodon serrulatus Wiedemann in Meigen, 1822	*Merodon tener* Sack, 1913
Merodon testaceus Sack, 1913	*Merodon manicatus* (Sack, 1938)
Merodon testaceus Sack, 1913	*Merodon testaceoides* Hurkmans, 1993
Paragus haemorrhous Meigen, 1822	*Paragus coadunatus* Rondani, 1847
Paragus mundus Wollaston, 1858	*Paragus coadunatus sensu auct.,* not Rondani, 1847
Paragus testaceus Meigen 1822	*Paragus romanicus sensu auct*., not Stanescu 1992

3.2 Species added to the spreadsheets

Cheilosia candida Vujić & Radenković, in Radenković, Likov, Ståhls, Rojo, Pérez-Bañón, Smit, Petanidou, Van Steenis & Vujić, 2020

Cheilosia luteicornis (Zetterstedt, 1838)

Cheilosia triamilia Ballester-Torres, Ricarte & Nedeljković, in Ballester-Torres, Nedeljković, Aguado-Aranda, Vujić, Marcos-Garcia & Ricarte, 2024

Chrysogaster coerulea Strobl, in Czerny & Strobl, 1909

Chrysotoxum anatolicum Nedeljković & Vujić, in Nedeljković, Ricarte, Šašić-Zorić, Djan, Hayat, Vujić & Marcos-Garcia, 2020

Chrysotoxum caucasicum Sack, 1930

Chrysotoxum hispanicum Nedeljković, Ricarte & Marcos-Garcia, in Nedeljković, Ricarte, Šašić-Zorić, Djan, Hayat, Vujić & Marcos-Garcia, 2020

Chrysotoxum volaticum sensu Van Steenis *et al*., 2020

Eumerus ancylostylus Aguado-Aranda & Ricarte, in Aguado-Aranda, Ricarte, Nedeljković, Kelso, Van Eck, Skevington & Marcos-Garcia, 2023

Eumerus arctus Van Steenis, in Grković, Van Steenis, Miličić, Kočiś-Tubić, Djan, Radenković, & Vujić, 2021

Eumerus colladoi Ricarte & Aguado-Aranda, in Aguado-Aranda, Ricarte, Nedeljković & Marcos-Garcia, 2022

Eumerus crispus Vujić & Grković, in Grković, Van Steenis, Miličić, Kočiś-Tubić, Djan, Radenković & Vijić, 2021

Eumerus incisus Vujić & Malidžan, in Malidžan, Grković, Tubić, Radenković & Vujić, 2022

Eumerus larvatus Aracil, Grković & Pérez-Bañón, in Aracil, Grković, Pérez-Bañón, Tubić, Juan, Radenković, Vujić & Rojo, 2023

Eumerus lateralis (Zetterstedt, 1819)

Eumerus nigrorufus Grković & Vujić, in Grković, Van Steenis, Miličić, Kočiś-Tubić, Djan, Radenković & Vijić, 2021

Eumerus petrarum Aguado-Aranda, Nedeljković & Ricarte, in Aguado-Aranda, Ricarte, Nedeljković, Kelso, Van Eck, Skevington & Marcos-Garcia, 2023

Eumerus sardus Aguado-Aranda, Ricarte and Hauser, in Aguado-Aranda, Ricarte, Nedeljković, Hauser, Kelso, Sainz-Escudero, Skevington & Marcos-Garcia, 2024

Eupeodes vockerothi (Fluke, 1952)

Melanogaster baetica Ricarte & Nedeljković, in Ricarte, Nedeljković, Aguado-Aranda & Marcos-García, 2022

Merodon aerarius Rondani, 1857

Merodon albidus Šašić Zorić, Ačanski & Vujić, in Vujić, Sašić Zorić, Ačanski, Likov, Radenkovic, Djan, Milić, Sebić, Ranković & Khaghaninia, 2020

Merodon analis Meigen 1822

Merodon brevis Paramonov, 1926

Merodon calidus Šašić Zorić, Ačanski & Vujić, in Vujić, Sašić Zorić, Ačanski, Likov, Radenkovic, Djan, Milić, Sebić, Ranković & Khaghaninia, 2020

Merodon chrysotrichos Vujić, Radenković & Likov in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020

Merodon chrysurus Hurkmans & Vujić, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020

Merodon confinius Sašić Zorić & Vujić, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020

Merodon defectus Vujić, Likov & Radenković, in Vujić, Likov, Radenkovic, Tubić, Djan, Sebić, Pérez-Bañón, Barkalov, Hayat, Rojo, Andrić & Ståhls, 2020

Merodon flavitibius Paramonov, 1926

Merodon hirsutus Sack, 1913

Merodon hirtus (Sack, 1932)

Merodon kozufensis Radenković & Vujić, in Radenković, Vujić, Obreht Vidaković, Djan, Milić, Veselić, Ståhls & Petanidou, 2020

Merodon latens Vujić, Radenković & Likov, in Vujić, Radenković, Likov, Tubić, Popov, Gilasian, Djan, Milosavljević & Ačanski, 2024

Merodon magnus Vujić, Tubić & Ačanski, in Vujić, Tubić, Radenković, Ačanski, Likov, Arok, Gorše & Djan, 2024

Merodon makrisi Vujić, Radenković & Tot, in Vujić, Toth, Andrić, Ačanski, Zorić, Pérez-Bañón, Aracil, Veselić, Arok, Mengual, Van Eck, Rojo & Radenković 2021

Merodon medius Vujić, Likov & Radenković, in Vujić, Likov, Radenkovic, Tubić, Djan, Sebić, Pérez-Bañón, Barkalov, Hayat, Rojo, Andrić & Ståhls, 2020

Merodon mishustini Popov, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020

Merodon nitens Hurkmans & Vujić, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020

Merodon nudicorpus Vujić & Radenković, in Vujić, Likov, Popov, Radenković & Hauser, 2021

Merodon olympius Vujić & Radenković, in Radenković, Vujić, Obreht Vidaković, Djan, Milić, Veselić, Ståhls & Petanidou, 2020

Merodon opacus Vujić, Likov & Radenković, in Vujić, Likov, Radenković, Tubić, Djan, Sebić, Pérez-Bañón, Barkalov, Hayat, Rojo, Andrić & Ståhls, 2020

Merodon orjensis Radenković & Vujić, in Radenković, Vujić, Obreht Vidaković, Djan, Milić, Veselić, Ståhls & Petanidou, 2020

Merodon petiolatus Vujić, Radenković & Rojo, in Vujić, Radenković, Tubić, Likov, Popov, Rojo, & Milićić, 2022
Merodon pseudomoenium Vujić, Tubić & Ačanski, in Vujić, Tubić, Radenković, Ačanski, Likov, Arok, Gorše & Djan, 2024
Merodon sacki (Paramonov, 1936)
Merodon spineus Vujić, Sašić Zorić & Likov, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon spinosus Vujić, Radenković & Likov, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon triangulum Vujić, Radenković & Hurkmans, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon trispinus Vujić & Radenković, in Vujić, Radenković, Likov, Gorše, Djan, Ristić & Barkalov, 2022
Milesia cretica Bot & Van Steenis, in Bot, Mengual, Van Steenis & Skevington, 2022
Orthonevra arcana Ricarte & Nedeljković, in Ricarte, Nedeljković, Aguado-Aranda & Marcos-García, 2022
Orthonevra atlantica Zóralski & Van de Meutter, in Zóralski, Van de Meutter, Mengual & Gadawski, 2024
Paragus mundus Wollaston, 1858
Paragus thracusi Radenković, Likov & Vujić, in Radenković, Likov, Ståhls, Rojo, Pérez-Bañón, Smit, Petanidou, Van Steenis & Vujić, 2020
Pelecocera garrigae Lair & Nève, in Ropars, Skevington, Kelso, Geslin, Minssieux & Nève, 2022
Pelecocera hederae Van Eck, in Van Eck & Mengual, 2021
Pelecocera lugubris Perris 1839
Platycheirus sibiricus Barkalov & Nielsen, 2007
Platycheirus sigiktae Mutin, in Mutin & Barkalov, 1999
Platycheirus torei Barkalov, 2013
Psilota aegeae Vujić, Ståhls & Smit, in Radenković, Likov, Ståhls, Rojo, Pérez-Bañón, Smit, Petanidou, Van Steenis & Vujić, 2020

3.3 Species for which habitat association data are provided, for the first time

Cheilosia luteicornis (Zetterstedt, 1838)
Chrysogaster coerulea Strobl, in Czerny & Strobl, 1909
Chrysotoxum anatolicum Nedeljković & Vujić, in Nedeljković, Ricarte, Šašić-Zorić, Djan, Hayat, Vujić & Marcos-Garcia, 2020
Chrysotoxum hispanicum Nedeljković, Ricarte & Marcos-Garcia, in Nedeljković, Ricarte, Šašić-Zorić, Djan, Hayat, Vujić & Marcos-Garcia, 2020
Chrysotoxum volaticum sensu Van Steenis *et al*., 2020
Eumerus ancylostylus Aguado-Aranda & Ricarte, in Aguado-Aranda, Ricarte, Nedeljković, Kelso, Van Eck, Skevington & Marcos-Garcia, 2023
Eumerus bayardi Séguy, 1961
Eumerus colladoi Ricarte & Aguado-Aranda, in Aguado-Aranda, Ricarte, Nedeljković & Marcos-Garcia, 2022
Eumerus crispus Vujić & Grković, in Grković, Van Steenis, Miličić, Kočiś-Tubić, Djan, Radenković & Vijić, 2021
Eumerus incisus Vujić & Malidžan, in Malidžan, Grković, Tubić, Radenković & Vujić, 2022

Eumerus larvatus Aracil, Grković & Pérez-Bañón, in Aracil, Grković, Pérez-Bañón, Tubić, Juan, Radenković, Vujić & Rojo, 2023
Eumerus lateralis (Zetterstedt, 1819)
Eumerus nigrorufus Grković & Vujić, in Grković, Van Steenis, Miličić, Kočiś-Tubić, Djan, Radenković & Vijić, 2021
Eumerus petrarum Aguado-Aranda, Nedeljković & Ricarte, in Aguado-Aranda, Ricarte, Nedeljković, Kelso, S., Van Eck, A. P. W., Skevington, J. H. & Marcos-Garcia, 2023
Eumerus richteri Stackelberg, 1960
Eupeodes vockerothi (Fluke, 1952)
Merodon aerarius Rondani, 1857
Merodon analis Meigen 1822
Merodon brevis Paramonov, 1926
Merodon calidus Šašić Zorić, Ačanski & Vujić, in Vujić, Sašić Zorić, Ačanski, Likov, Radenkovic, Djan, Milić, Sebić, Ranković & Khaghaninia, 2020
Merodon caucasicus Portschinsky, 1877
Merodon chrysotrichos Vujić, Radenković & Likov, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon chrysurus Hurkmans & Vujić, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon defectus Vujić, Likov & Radenković, in Vujić, Likov, Radenkovic, Tubić, Djan, Sebić, Pérez-Bañón, Barkalov, Hayat, Rojo, Andrić & Ståhls, 2020
Merodon dzhalitae Paramonov, 1926
Merodon flavitibius Paramonov, 1926
Merodon hirsutus Sack, 1913
Merodon hypochrysos Hurkmans, 1993
Merodon latens Vujić, Radenković & Likov, in Vujić, Radenković, Likov, Tubić, Popov, Gilasian, Djan, Milosavljević & Ačanski 2024
Merodon makrisi Vujić, Radenković & Tot, in Vujić, Toth, Andrić, Ačanski, Zorić, Pérez-Bañón, Aracil, Veselić, Arok, Mengual, Van Eck, Rojo & Radenković 2021
Merodon medius Vujić, Likov & Radenković, in Vujić, Likov, Radenkovic, Tubić, Djan, Sebić, Pérez-Bañón, Barkalov, Hayat, Rojo, Andrić & Ståhls, 2020
Merodon mishustini Popov, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon nitens Hurkmans & Vujić, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon nudicorpus Vujić & Radenković, in Vujić, Likov, Popov, Radenković & Hauser, 2021
Merodon opacus Vujić, Likov & Radenković, in Vujić, Likov, Radenković, Tubić, Djan, Sebić, Pérez-Bañón, Barkalov, Hayat, Rojo, Andrić & Ståhls, 2020
Merodon pseudomoenium Vujić, Tubić & Ačanski, in Vujić, Tubić, Radenković, Ačanski, Likov, Arok, Gorše & Djan, 2024
Merodon rubidiventris Costa, 1884
Merodon sacki (Paramonov, 1936)
Merodon triangulum Vujić, Radenković & Hurkmans, in Vujić, Radenković, Likov, Andrić, Janković, Ačanski, Popov, De Courcy Williams, Sašić Zorić & Djan, 2020
Merodon vandergooti Hurkmans, 1993
Milesia cretica Bot & Van Steenis, in Bot, Mengual, Van Steenis & Skevington, 2022

Orthonevra atlantica Zóralski & Van de Meutter, in Zóralski, Van de Meutter, Mengual & Gadawski, 2024
Paragus thracusi Radenković, Likov & Vujić, in Radenković, Likov, Ståhls, Rojo, Pérez-Bañón, Smit, Petanidou, Van Steenis & Vujić, 2020
Pelecocera garrigae Lair & Nève, in Ropars, Skevington, Kelso, Geslin, Minssieux & Nève, 2022
Pelecocera hederae Van Eck, in Van Eck & Mengual, 2021
Platycheirus sibiricus Barkalov & Nielsen, 2007
Platycheirus sigiktae Mutin, in Mutin & Barkalov, 1999
Platycheirus torei Barkalov, 2013
Psilota aegeae Vujić, Ståhls & Smit, in Radenković, Likov, Ståhls, Rojo, Pérez-Bañón, Smit, Petanidou, Van Steenis & Vujić, 2020
Riponnensia daccordii (Claussen, 1991)

3.4 Species for which a Species Account is provided for the first time

Cheilosia candida Vujić & Radenković, in Radenković *et al*., 2020
Cheilosia luteicornis (Zetterstedt, 1838)
Cheilosia triamilia Ballester-Torres, Ricarte & Nedeljković, in Ballester-Torres *et al*., 2024
Chrysogaster coerulea Strobl, in Czerny & Strobl, 1909
Chrysotoxum anatolicum Nedeljković & Vujić, in Nedeljković *et al*., 2020
Chrysotoxum caucasicum Sack, 1930
Chrysotoxum hispanicum Nedeljković, Ricarte & Marcos-Garcia, in Nedeljković *et al*., 2020
Chrysotoxum intermedium complex
Chrysotoxum triarcuatum Macquart in Webb & Berthelot, 1839
Chrysotoxum volaticum sensu Van Steenis *et al*., 2020
Eumerus ancylostylus Aguado-Aranda & Ricarte, in Aguado-Aranda *et al*., 2023
Eumerus arctus Van Steenis, in Grković *et al*., 2021
Eumerus bayardi Séguy, 1961
Eumerus colladoi Ricarte & Aguado-Aranda, in Aguado-Aranda *et al*., 2022
Eumerus crispus Vujić & Grković, in Grković *et al*., 2021
Eumerus falsus Becker, 1921
Eumerus hissaricus Stackelberg, 1949
Eumerus incisus Vujić & Malidžan, in Malidžan *et al*., 2022
Eumerus larvatus Aracil, Grković & Pérez-Bañón, in Aracil *et al*., 2023
Eumerus lateralis (Zetterstedt, 1819)
Eumerus nigrorufus Grković & Vujić, in Grković *et al*., 2021
Eumerus petrarum Aguado-Aranda, Nedeljković & Ricarte, in Aguado-Aranda *et al*., 2023
Eumerus sardus Aguado-Aranda, Ricarte and Hauser, in Aguado-Aranda *et al*., 2024
Eupeodes vockerothi (Fluke, 1952)
Melanogaster baetica Ricarte & Nedeljković, In Ricarte *et al*., 2022
Melanogaster jaroslavensis (Stackelberg, 1922)
Merodon aerarius Rondani, 1857
Merodon albidus Šašić Zorić, Ačanski & Vujić, in Vujić *et al*., 2020b
Merodon analis Meigen, 1822
Merodon brevis Paramonov, 1926
Merodon calidus Šašić Zorić, Ačanski & Vujić, in Vujić *et al*., 2020b
Merodon caucasicus Portschinsky, 1877

Merodon chrysotrichos Vujić, Radenković & Likov, in Vujić *et al*., 2020a
Merodon chrysurus Hurkmans & Vujić, in Vujić *et al.*, 2020a
Merodon confinius Sašić Zorić & Vujić, in Vujić *et al.*, 2020a
Merodon defectus Vujić, Likov & Radenković, in Vujić *et al.*, 2020c
Merodon flavitibius Paramonov, 1926
Merodon hirtus (Sack, 1932)
Merodon hirsutus Sack, 1913
Merodon kozufensis Radenković & Vujić, in Radenković *et al*., 2020
Merodon latens Vujić, Radenković & Likov, in Vujić *et al*., 2024
Merodon magnus Vujić, Tubić & Ačanski, in Vujić *et al*., 2024
Merodon makrisi Vujić, Radenković & Tot, in Vujić *et al*., 2021
Merodon medius Vujić, Likov & Radenković, in Vujić *et al.*, 2020c
Merodon mishustini Popov, in Vujić *et al.*, 2020a
Merodon nitens Hurkmans & Vujić, in Vujić *et al.*, 2020a
Merodon nudicorpus Vujić & Radenković, in Vujić *et al.*, 2021
Merodon olympius Vujić & Radenković, in Radenković *et al.*, 2020
Merodon opacus Vujić, Likov & Radenković, in Vujić *et al.*, 2020c
Merodon orjensis Radenković & Vujić, in Radenković *et al*., 2020
Merodon petiolatus Vujić, Radenković & Rojo, in Vujić *et al*., 2022
Merodon pseudomoenium Vujić, Tubić & Ačanski, in Vujić *et al*., 2024
Merodon sacki (Paramonov, 1936)
Merodon spineus Vujić, Sašić Zorić & Likov, in Vujić *et al.*, 2020a
Merodon spinosus Vujić, Radenković & Likov, in Vujić *et al*., 2020a
Merodon triangulum Vujić, Radenković & Hurkmans, in Vujić *et al.*, 2020a
Merodon trispinus Vujić & Radenković, in Vujić *et al*., 2022
Milesia cretica Bot & Van Steenis, in Bot *et al*., 2022
Orthonevra arcana Ricarte & Nedeljković, in Ricarte *et al.*, 2022
Orthonevra atlantica Zóralski & Van de Meutter, in Zóralski *et al*., 2024
Orthonevra incisa (Loew, 1843)
Paragus mundus Wollaston, 1858
Paragus thracusi Radenković, Likov & Vujić, in Radenković *et al.*, 2020
Pelecocera garrigae Lair & Nève, in Lair *et al*., 2022
Pelecocera hederae Van Eck, in Van Eck & Mengual, 2021
Pelecocera lugubris Perris 1839
Platycheirus sibiricus Barkalov & Nielsen, 2007
Platycheirus sigiktae Mutin, in Mutin & Barkalov, 1999
Platycheirus torei Barkalov, 2013
Psilota aegeae Vujić, Ståhls & Smit, in Radenković *et al.*, 2020

3.5 Definitions of Macrohabitat categories added to the spreadsheets, the Content and Glossary file and (in translation) to the Contenu et Glossaire file

***Acer* slope forest**, humid/mesophilous forests: CORINE 41.41 (part), Lunario-Acerion. Humid, montane forests of unstable talus slopes, dominated by *Acer pseudoplatanus,* with *A. platanoides, Fraxinus excelsior, Tilia platyphyllos, Ulmus glabra*, affected by local land-slides resulting in the presence of frequent uprooted and damaged trees and with a rich ground flora of geophytes and shade-loving plants, including epiphytes. The ground flora is characterised by *Aconitum variegatum ssp.paniculatum, Campanula latifolia, Lunaria rediviva, Phyllitis scolopendrium*, *Polystichum*

setiferum. Accompanying plants include *Aconitum altissimum, Actaea spicata, Anthriscus nitida, Arum maculatum, Aruncus dioicus, Cardamine pentaphyllos, Chrysosplenium alternifolium, Corydalis cava, C. intermedia, Dryopteris felix-mas, D. remota, Galium odoratum, Geranium robertianum, Impatiens noli-tangere, Lamium galeobdolon ssp.montanum, Leucojum vernum, Mercurialis perennis, Paris quadrifolia, Polystichum aculeatum, Ranunculus lanuginosus, Ribes alpinum, Salvia glutinosa, Stellaria nemorum, Urtica dioica, Viola biflora.* (Delarze *et al*., 2015).

berry bush stand, vegetable garden/allotment: plot of land, urban/suburban, attached to a residential dwelling, or maintained by public authorities etc, with berry bushes (blue-berries, red, white or black-currents, gooseberries, raspberries, logan-berries etc.).

biodiversity hedge, urban, culture macrohabitats: mature (i.e. capable of flowering and fruiting) hedge planted with multiple species (4 or more) of European shrubs or trees, installed around urban parks, gardens (see definition of garden, general) and other features, such as cemeteries, sports grounds, car parks or railway lines, and subject to a specific management regime. The management regime stipulates hedge trimming to be carried once a year at the most, after leaf fall in the autumn or the winter, the hedge being subdivided into sections, each of which is trimmed in alternate years, with overall hedge height maintained at 2 metres or more. Hedging plants typically include combinations of *Carpinus, Cornus, Crataegus, Euonymus, Ligustrum, Lonicera, Prunus, Rhamnus, Viburnum*.

fruit trees (general), urban, culture macrohabitats: trees of almond, apple, peach, pear or plum, excluding fig, medlar, olive (see olive orchards), quince, citrus and nut trees (filbert, hazel, walnut), planted in urban parks, ornamental gardens or vegetable gardens/allotments to provide fruit for domestic consumption.

garden pond, ornamental garden: man-made standing-water body dependant on rain-water or human agency for maintenance of its water level, excavated within an ornamental garden.

mature, fruit trees, garden: stands of fruit trees that have reached the age of fructification without yet developing the features described under overmature fruit trees.

olive orchards (organic), orchards: organically farmed orchards of cultivated varieties of *Olea europaea*, with ground vegetation. EUNIS G2.91 Olive groves (partim).

ornamental garden (general), culture macrohabitats: plots of land, urban/suburban, attached to residential dwellings, planted with areas of grass and patches of a miscellany of indigenous and exotic flowering plants, shrubs and trees, for recreation, rather than for food production or forestry purposes. For fruit trees in ornamental gardens see under urban, culture macrohabitats, fruit trees. CORINE 85.31: ORNAMENTAL GARDENS. EUNIS I2.21.

overmature, fruit trees: fruit trees on which microhabitats for saproxylic organisms (i.e. sap runs, rot-holes, trunk cavities, observable areas of dead wood) have developed.

***Pinus sylvestris* on marl,** *Pinus sylvestris* forest: *Molinio-pinion.* Humid *P. sylvestris* forest on marl, of the Jura and Alps, with overmature, mature and young (saplings/scrub) trees. These forests are mostly open, with occasional small surface streams and patches of calcareous marsh, areas of tall grasses (*Molinia arundinacea*, *Calamagrostis varia*) and thickets of shrubs. They have a rich heliophile flora including rare plants e.g. *Cypripedium calceolus, Gymnadenia odoratissima*, accompanied by postglacial relicts (*Carex ericetorum, Festuca amethystina, Linum alpinum, Pinguicula alpina, Potentilla heptaphylla*). They are characterised by the presence of *Aster amellus*, *Cirsium tuberosum*

and *Thlaspi montanum*. Accompanying plants include *Acer opalus, Anthericum ramosum, Aquilegia atrata, A. vulgaris, Aster bellidiastrum, Berberis vulgaris, Brachypodium pinnatum agg., Calamagrostis varia, Carex flacca, C. montana, Carlina vulgaris, Convallaria majalis, Epipactis atrorubens, Heleborus foetidus, Laserpitium latifolium, Ligustrum vulgare, Lonicera alpigena, Mellitis melissophyllum, Mercurialis perennis, Molinia arundinacea, Ophrys insectifera, Polygala amarella, Rhamnus alpina, Taxus baccata, Viburnum lantana.* (Delarze *et al*., 2015).

***Platanus orientalis* riparian,** (general), alluvial forest : CORINE 44.711
Riparian forest of Oriental Plane. *Platanus orientalis* gallery forests of Greek water courses, temporary rivers and gorges.

ruderals, open ground macrohabitats: communities of ruderal plants on open ground below the subalpine zone, where more permanent ground vegetation has been destroyed by disturbance or cannot survive due to local conditions. This category includes ruderal communities of "brown field" sites and the margins of railway lines.

steppic *Pinus sylvestris*, *Pinus sylvestris* forests: CORINE 42.53, *Ononido-pinion*. Xerophile scots-pine/restharrow forests, often calcareous, of the montane level of inner Alpine valleys. Open *P. sylvestris* forests submitted to extreme continental climate, rich in leguminous plants and characterised by *Astragalus exscapus*, *A. monspessulanum, Coronilla minima*, *Ononis rotundifolia* and *Odontites viscosus*. Accompanying plants include *Antennaria dioica, Arctostaphylos uva-ursi, Astragalus onobrychis, Avenella flexuosa, Carex halleriana, C. humilis, Cerastium arvense ssp. strictum, Epipactis atrorubens, Erucastrum nasturtiifolium, Erysimum rhaeticum, Euphorbia segueiriana, Hippocrepis commosa, Minuartia laricifolia, Ononis pusilla, Oxytropis pilosa, Peucedanum oreoselinum, Polygala chamaebuxus, Pyrola chlorantha, Saponaria oxymoides, Silene nutans, Teucrium chamaedrys, Thymus praecox, Vicia cracca ssp.incana, Viola rupestris, V. thomasiana, Viscum album ssp.austriacum.* (Delarze *et al*., 2015).

Thermophilous *Quercus*/hop-hornbeam, deciduous forests: dry forest: *Orno-Ostryon*/*Ostryo-Carpinion* p., *Cyclamico-Quercion brachyphyllae* p. Forests of southern Switzerland and Italy, in which *Quercus pubescens* or its allies are the dominant deciduous oaks, often co-dominant with *Ostrya carpinifolia*, *Carpinus orientalis, C. betulus, Fraxinus ornus, Celtis australis, Quercus cerris* and other species. Rich in species of forest margins e.g. *Geranium sanguineum* and characteristically accompanied by *Hedera* and shrubs including *Cornus mas, Daphne laureola, Juniperus communis, Laburnum anagyroides, Sorbus aria* and a ground flora with *Asparagus tenuifolius, Carex humilis, Cnidium silaifolium, Cyclamen purpurascens, Helleborus niger, Hieracium glaucinum, Hippocrepis emerus, Lamium galeobdolon, Lathyrus venetus, Paeonia officinalis, Ruscus aculeatus, Tanacetum corymbosum, Teucrium chamaedrys*. CORINE 41.731, 41.81; EUNIS G1.7C2.

***Tilia* slope forest,** dry forests: CORINE 41.45 (part), *Tilion-platyphylli*. Poly-dominant thermophilous deciduous forests of *Tilia cordata* and *T. platyphyllos* accompanied by other tree species (*Acer* spp., *Fraxinus, Ulmus*) on stabilised, generally calcareous colluvium, on the sides of warm valleys of the Jura and on the northern side of the pre-Alps in Switzerland and on the southern slopes of the Swiss and Italian Alps. *Euonymus latifolius* and *Staphylea pinnata* are characteristic, with an accompanying flora including *Acer opalus, A. platanoides, A. pseudoplatanus, Asplenium trichomanes, Campanula rapunculoides, Clematis vitalba, Corylus avellanae, Galanthus nivalis, Geranium lucidum, G. robertianum, Gymnocarpium robertianum, Heleborus foetidus, Hepatica nobilis, Hippocrepis emerus, Ilex aquifolium, Mercurialis perennis, Poa nemoralis, Salvia glutinosa, Tamus comminis, Vincetoxicum hirundinaria, Viola mirabilis, Vitis sylvestris*. (Delarze *et al*., 2015).

urban garden (general), urban, culture macrohabitats: plot of land, urban/suburban, attached to a residential dwelling (including apartment blocks), planted with ornamental herbs or shrubs or with

vegetables and/or berry bushes used for domestic consumption. Allotments provided by public authorities etc. are included in this category. For compost heaps in urban gardens, see under urban, culture macrohabitats, compost heap. For fruit trees in urban gardens see under urban, culture macrohabitats, fruit trees.

veg. bed, vegetable garden/allotment: plot of land, urban/suburban, attached to a residential dwelling, or maintained by public authorities etc, planted with vegetables for domestic consumption.

vegetable garden/allotment (general), urban garden: plot of land, urban/suburban, attached to a residential dwelling, or maintained by public authorities etc, planted with vegetables for domestic consumption, with or without planted berry bush stands (red, white or black-currents, gooseberries, raspberries, logan-berries etc.). For compost heaps in vegetable gardens/allotments, see under urban, culture macrohabitats, compost heap. For fruit trees in vegetable gardens see under urban, culture macrohabitats, fruit trees.

3.6 Definitions of Microhabitat categories added to the spreadsheets, the Content and Glossary file and (in translation) to the Contenu et Glossaire file

Fungi (gen.), Larval activity zone, terrestrial: the parts of living basidiomycete fungi or truffles in which larvae live.

in fruiting bodies, Fungi: in the fruiting bodies of hypogeal basidiomycetes, either protruding from the ground surface (*Boletus*, *Suillus*) or partly-concealed in the litter layer (*Rhizopogon*), or mostly hidden just under the ground surface (*Rhizopogon).* Larvae living in the fruiting bodies of ascomycte fungi of the genus *Tuber* (truffles) are also included here.

3.7 European States and other entities added to the spreadsheets, the Content and Glossary file and (in translation) to the Contenu et Glossaire file

Cyprus: European States and other entities: the entire geographical entity of the Mediterranean island of Cyprus.
Geneva, Switzerland: the canton of Geneva
Vaud, Switzerland : the canton of Vaud

3.8 Trait category added to the spreadsheets, the Content and Glossary file and (in translation) to the Contenu et Glossaire file

living fungi, food type: species whose larvae feed on the fruiting bodies of living basidiomycetes or *Tuber* (Ascomycetes). (species whose larvae feed on micro-fungi, e.g. *Fusarium* or S*accharomyces* are included in the food type category micro-organisms)

Pseudopelecocera latifrons (male): genus added to Portraits volume (photo : M C D Speight)

Chapter 4: NEW SPREADSHEET SECTION: IUCN RED LIST CATEGORIES

This new spreadsheet section codes the results of the EU/IUCN project completed in 2022, which compiled an IUCN Red List of threatened European syrphids. The project did not cover Turkey and explicitly excluded consideration of the impacts of climatic change. Each species covered by the project is coded here according to the IUCN status category to which it was consigned by the project. Those status categories, together with their definitions – as provided by IUCN – are listed below. The IUCN criteria mentioned in category definitions are detailed in IUCN (2012) – see Section 5, literature incorporated.

CR, **critically endangered**, threatened
A taxon is Critically Endangered when the best available evidence indicates that it meets any of the criteria A to E for Critically Endangered (see Section V of IUCN, 2012), and it is therefore considered to be facing an extremely high risk of extinction in the wild.

DD, **data deficient**.
A taxon is Data Deficient when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is not therefore a category of threat. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future research will show that threatened classification is appropriate. It is important to make positive use of whatever data are available. In many cases great care should be exercised in choosing between DD and a threatened status. If the range of a taxon is suspected to be relatively circumscribed, and a considerable period of time has elapsed since the last record of the taxon, threatened status may well be justified.

EN, **endangered**, threatened.
A taxon is endangered when the best available evidence indicates that it meets any of the A to E criteria for Endangered (see Section V of IUCN, 2012) and it is therefore considered to be facing a very high risk of extinction in the wild.

LC, **least concern**, not threatened.
A taxon is Least Concern when it has been evaluated against the criteria and does not qualify for Critically Endangered, Endangered or Vulnerable or Near Threatened. Widespread and abundant taxa are included in this category.

Not covered by IUCN Red List
Species whose threat status is not categorised by the IUCN Red List, but which are listed in the StN spreadsheets.
Most of the 138 species listed in StN but not included in the IUCN Red List are either species which, at the time the list of species to be covered by the IUCN project was drawn up, were not recognised as occurring in Europe, or species occurring in Turkey, but not as yet recorded from within geographical Europe (The geographical coverage of the IUCN project is explained in Vujić *et al*. (2022c)).
The rest are either taxa whose taxonomic status remains unresolved or the few species consigned by IUCN to the regional category Not Applicable (NA) in Vujić *et al.* (2022c). The definition of the NA category in IUCN (2012b) is as follows:
NA, not applicable: category for a taxon deemed to be ineligible for assessment at any regional level. A taxon may be NA because it is not a wild population or not within its natural range in the region, or because it is a vagrant to the region. It may also be NA because it occurs at very low numbers in the region (i.e. when the regional Red List authority has decided to use a "filter" to exclude taxa before

the assessment procedure) or the taxon may be classified at a lower taxonomic level (e.g. below the level of species or subspecies) than considered eligible by the regional Red List authority. In contrast to other Red List categories, it is not mandatory to use NA for all taxa to which it applies; but is recommended for taxa where its use is informative.

Not threatened (general)
Species categorised by IUCN as not threatened, in the subcategories Near Threatened and Least Concern.

NT, **near threatened**, not threatened.
A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for, or is likely to Quality for a threatened category in the near future.

RE, regionally extinct: extinct in Europe.
A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual) throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.

Threatened (general)
Species categorised by IUCN as threatened, in the subcategories Critically Endangered, Endangered and Vulnerable.

VU, **vulnerable**, threatened.
A taxon is vulnerable when the best available evidence indicates that it meets any of the criteria A to E for Vulnerable (see SectionV of IUCN, 2012) and is therefore considered to be facing high risk of extinction in the wild.

Eumerus sinuatus (female): species classified by the EU/IUCN Red List project as endangered in Europe (photo : M C D Speight)

Chapter 5: LITERATURE INCORPORATED INTO THE StN DATABASE FILES SINCE 2020

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