

Additional data to the Hoverfly fauna of South West Bulgaria (Diptera: Syrphidae)

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TÓTH, S.: *Additional data to the Hoverfly fauna of South West Bulgaria (Diptera: Syrphidae)*.

Abstract: The current paper publishes the faunistic data of the hoverflies collected in South West Bulgaria, mainly in the area of Pirin, Rila, Rodope and Vitosa by Hungarian entomologist. The vast majority of the data was collected by the author.

The paper reports the occurrence of 269 species on the 24 points of the examined area. The search for the checklist of the Bulgarian species was unsuccessful. The author is in the knowledge of only one paper that works with the Bulgarian fauna, which contains information on the occurrence of 117 species of Hoverflies in South West Bulgaria (Bánkowska 1967). These species are marked with a star in the listing.

Out of these, all have occurred during the collection by the Hungarian entomologist. The "Catalogue of Palaearctic Diptera" series, 8th volume (PECK 1988) can be considered as the most strongpoint on the fauna of the Bulgarian hoverflies. Based on this, 24 species can be considered new to the Bulgarian fauna: *Brachyopa testacea* (Fallén, 1817), *Brachypalpus chrysites* Egger, 1859, *Cheilosia crassiseta* Loew, 1859, *Cheilosia hypena* (Becker, 1894), *Cheilosia insignis* Loew, 1857, *Cheilosia laticornis* Rondani, 1857, *Cheilosia pictipennis* Egger, 1860, *Cheilosia ranunculi* Doczkal, 2000, *Eumerus pulchellus* Loew, 1848, *Eumerus sogdianus* Stackelberg, 1952, *Merodon avidus* (Rossi, 1790), *Merodon nigratarsis* Rondani, 1845, *Merodon spinitarsis* (Paramonov, 1929), *Myolepta nigratarsis* Coe, 1957, *Neoscasia unifasciata* (Strobl, 1898), *Paragus finitimus* Goeldlin de Tiefenau, 1971, *Paragus majoranae* Rondani, 1857, *Pipizella divicoi* (Goeldlin de Tiefenau, 1974), *Sphaerophoria taeniata* (Meigen, 1822), *Syrphocheilosia claviventris* (Strobl, 1909), *Syrphus nitidifrons* Becker, 1921, *Syrphus sexmaculatus* (Zetterstedt, 1838), *Temnostoma bombylans* (Fabricius, 1805), *Xylota meigeniana* Stackelberg, 1964.

Keywords: Hoverfly, Syrphidae, faunistics, Bulgaria

Introduction

The author was conducting collections of the Hoverflies in many parts of South West Bulgaria during 1982 and 1983, mainly in the Pirin, Rila, Rodope and the Vitosa mountains. In 1982, with three amateur entomologists (Lajos Podlussány and the Rozner couple), they have walked in the area of Pirin, Rila and Rodope. Besides them, others have also collected some hoverflies in the area, mainly Ágnes Draskovits and Ágnes Vály, members of the Hungarian Natural Science Museum. The author has processed the collected material. The prepared samples can be found in the collection of Mátra Museum of Gyöngyös and the Hungarian Natural Science Museum. In abbreviation, the names of all the collectors can be found in the faunistical data information volume.

Materials and methods

The published material is a result of personal collection with insect collecting nets, Malaise trap, also partly a result of observations.

Identification was completed with the help of the following publications: STACKELBERG (1970), STUBBS & FALK (1983), VAN VEEN (2004), BARKALOV & STÄHLS (1997), BARKEMEYER & CLAUSSEN (1986), CLAUSSEN (1998), DOCZKAL & SCHMID (1994), GOEGLIN DE TIEFENAU (1976), THOMPSON & TORP (1986).

Nomenclature: MAIBACH et al. (1998), PECK (1988), SSYMANK et al. (1999).

Table 1: The list and the geographical position of the collecting sites

The list of the collecting sites	altitude asl.	Geographical coordinates	
		latitude	longitude
Batak (Батак)	1200 m	41°57'01.65"N	24°13'24.42"E
Batak: Batak dam (Батак: Язовир Батак)	1150 m	41°57'19.08"N	24°09'09.44"E
Bistritsa (Бистрица)	1120 m	42°37'01.92"N	23°11'51.02"E
Delchevo (Делчево)	1000 m	41°33'17.72"N	23°41'53.48"E
Gotse Delchev (Гоце Делчев)	600 m	41°35'15.95"N	23°43'07.42"E
Kostenets (Град Костенец)	600 m	42°17'23.35"N	23°53'17.75"E
Melnik (Мелник)	500 m	41°31'37.09"N	23°24'28.66"E
Mihalkovo (Михалково)	690 m	41°50'46.96"N	24°25'37.45"E
Pazardzhik (Пазарджик)	220 m	42°12'31.72"N	24°16'24.66"E
Pernik (Перник)	780 m	42°36'36.77"N	23°01'07.48"E
Pirin, деревня Пирин	750 m	41°32'28.18"N	23°33'32.07"E
Pirin: Bansko, Банско Национальный парк	1200 m	41°48'29.50"N	23°28'10.53"E
Razlog: Park (Разлог: парк)	900 m	41°53'04.00"N	23°26'07.12"E
Rila (деревня Рила)	670 m	42°07'40.09"N	23°08'24.90"E
Rila Mt. Rila walley (Рила Уолли)	1300 m	42°09'00.44"N	23°22'26.69"E
Rila Mt., Rila Monastery (Рилски манастир)	1150 m	42°08'25.61"N	23°19'52.92"E
Rozhen (Рожен)	500 m	41°32'10.55"N	23°25'59.98"E
Sandanski (Сандански)	1200 m	41°37'50.50"N	23°21'48.99"E
Sandanski: Struma walley (Струма Уолли)	110 m	41°32'09.89"N	23°14'40.41"E
Satovcha (Сатовча)	1050 m	41°37'23.58"N	23°58'57.20"E
Sofia: Lake Vouana (Боянското езеро)	1060 m	42°38'07.27"N	23°16'10.77"E
Sofia: Vitosha Mt. (Витоша)	1800 m	42°36'40.62"N	23°16'51.62"E
Vladaya (Владая)	980 m	42°37'01.92"N	23°11'51.02"E
Yundola (Юндола)	1400 m	42°03'42.91"N	23°51'19.75"E

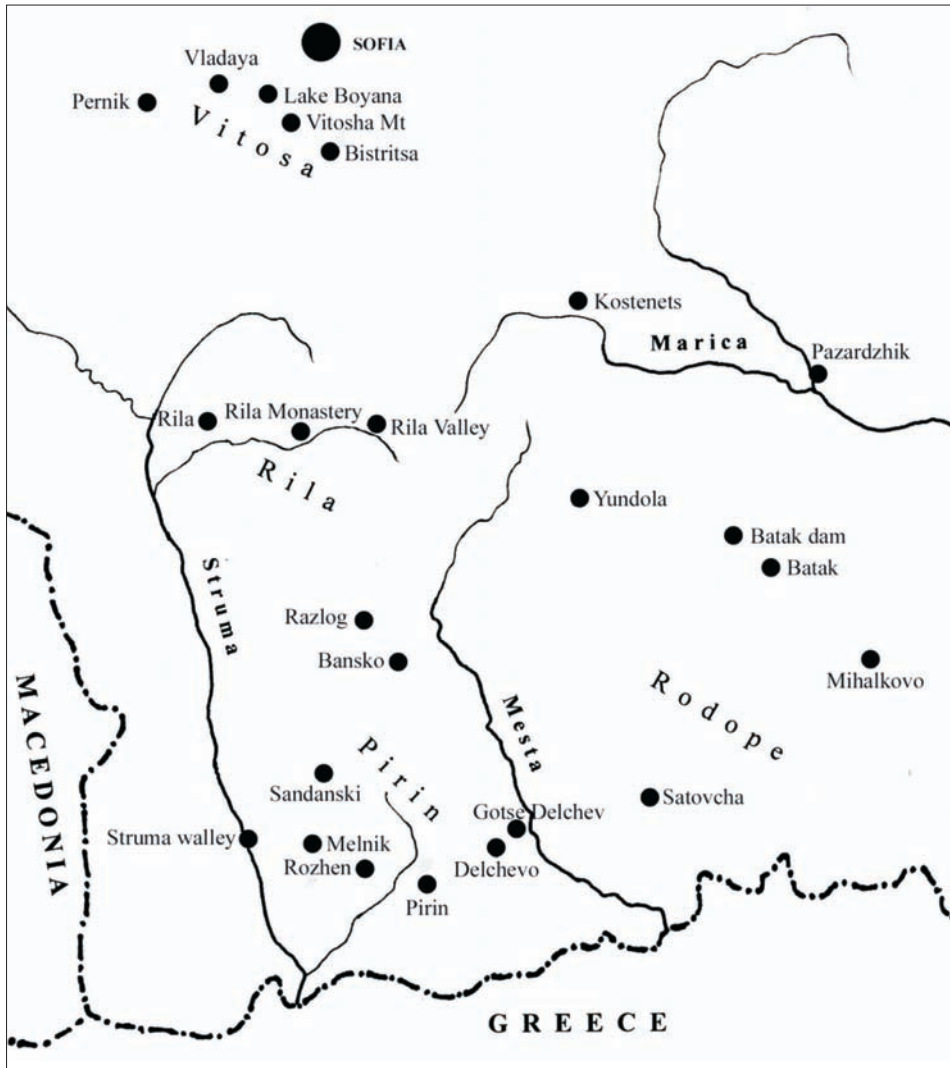


Fig. 1: The list of the provisional representation of the examined field areas, and collection points

Abbreviations of the collectors' names:

Sándor Horvatovich	SH
Sándor Tóth	ST
Lajos Podlussány	LP
Attila Podlussány	AP
István Rozner	IR
Ágnes Draskovits	ÁD
Ágnes Vály	ÁV
Ákos Uherkovich	ÁU
Zoltán Mészáros	ZM
Éva Visnyovszky	ÉV

List of species and collecting data

Anasimyia contracta Claussen & Torp, 1980: Batak: Batak dam, 24.V.1982, 2♂ 1♀, ST – Melnik: 20.V.1982, 1♂, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 1♀, ST (Malaise trap).

Anasimyia transfuga (Linnaeus, 1758): Batak: Batak dam, 24.V.1982, 3♂ 1♀, ST – Pazardzhik: 25.VII.1983, 2♀, ST – Pernik: 12.VII.1983, 1♂ 2♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♀, ST (Malaise trap).

Anasimyia lineata (Fabricius, 1787): Sandanski: Struma valley, 17.V.1982, ST, 1♂ 3♀, ST (Malaise trap).

Arctophila bombiformis (Fallén, 1810): Sofia: Lake Boyana, 19.VII.1983, 1♂, ST – Yundola: 23.V.1982, 1♂, ST.

Arctophila superbiens (Müller, 1776): Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap) – Yundola: 23.V.1982, 1♂, ST.

**Baccha elongata* (Fabricius, 1775): Bistritsa: 20.VII.1983, 3♂, ST – Pernik: 12.VII.1983, 2♂, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST; 19.V.1982, 1♂, ST.

**Baccha obscuripennis* Meigen, 1822: Rozhen: 18.V.1982, 1♂ 3♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 2♂ 1♀, ST (Malaise trap).

Blera fallax (Linnaeus, 1758): Sofia: Lake Boyana, 19.VII.1983, 1♂ 1♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 1♂ 3♀, ST.

Brachymyia berberina (Fabricius, 1805): Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap).

Brachyopa bicolor (Fallén, 1817): Rozhen: 18.V.1982, 1♂, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

Brachyopa pilosa Collin, 1939: Bansko: Bansko National Park, 23.VII.1983, 1♂, ST (Malaise trap) – Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST.

Brachyopa scutellaris Robineau-Desvoidy, 1844: Pirin, деревня Пирин: 19.V.1982, 1♂ 1♀, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST – Yundola: 23.V.1982, 1♂, ST.

Brachyopa testacea (Fallén, 1817): Pirin, деревня Пирин: 19.V.1982, 1♂ 1♀, ST – Vladaya: 22.VII.1983, 2♂, ST.

Brachypalpoidea lentus (Meigen, 1822): Bansko: Bansko National Park, 23.VII.1983, 1♀, ST (Malaise trap).

Brachypalpus chrysites Egger, 1859: Rila Mt. Rila valley, 24.VII.1983, 2♂ 1♀, ST (Malaise trap) – Satovcha: 29.V.1982, 2♂ 1♀, ST.

Callicera aenea (Fabricius, 1781): Bistritsa: 20.VII.1983, 1♂ 1♀, ST – Melnik: 20.V.1982, 1♂, ST.

Chalcosyrphus nemorum (Fabricius, 1805): Bansko: Bansko National Park, 23.VII.1983, 2♂ 1♀, ST (Malaise trap) – Rozhen: 18.V.1982, 1♂ 1♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 2♂, ST.

Chalcosyrphus piger (Fabricius, 1794): Satovcha: 29.V.1982, 2♂ 1♀, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

**Chamaesyrphus scaevoides* (Fallén, 1817): Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

**Cheilosia aerea* Dufour, 1848 (Bankowská: as *Cheilosia zetterstedti* Becker, 1894): Batak: 24.V.1982, 2♂ 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 3♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂, ST – Satovcha: 29.V.1982, 3♂ 2♀, ST – Yundola: 23.V.1982, 1♂, ST.

**Cheilosia albipila* Meigen, 1838: Rila (деревня Рила): 15.V.1983, 1♂ 1♀, ÉV – Rozhen: 18.V.1982, 1♂, ST.

**Cheilosia albitarsis* (Meigen, 1822): Batak: Batak dam, 24.V.1982, 4♂ 1♀, ST – Yundola: 23.V.1982, 18♂ 15♀, ST – Mihalkovo: 26.V.1982, 6♂ 8♀, ST – Pirin, деревня Пирин: 21.V.1982, 42♂ 23♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 1♀, ST – Satovcha: 29.V.1982, 25♂ 30♀, ST – Vladaya: 22.VII.1983, 2♂, ST.

**Cheilosia antiqua* (Meigen, 1822): Batak: 24.V.1982, 4♂ 5♀, ST – Pirin, деревня Пирин: 21.V.1982, 2♂ 3♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 4♀, ST – Satovcha: 29.V.1982, 17♂ 29♀, ST – Yundola: 23.V.1982, 1♂ 4♀, ST.

**Cheilosia barbata* Loew, 1857: Bansko: Bansko National Park, 23.VII.1983, 2♂ 2♀, ST (Malaise trap) – Batak: 24.V.1982, 2♂ 3♀, ST – Pirin, деревня Пирин: 21.V.1982, 4♂ 5♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 4♀, ST – Rozhen: 18.V.1982, 1♂ 1♀, ST – Satovcha: 29.V.1982, 3♂ 1♀, ST – Sandanski: Struma valley: 17.V.1982, 1♀, ST – Yundola: 23.V.1982, 6♂ 7♀, ST.

Cheilosia bracus Vujic & Claussen 1994: Satovcha: 29.V.1982, 1♂ 1♀, ST (Claußen det.) – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

Cheilosia caeruleascens (Meigen, 1822): Satovcha: 29.V.1982, 1♂ 1♀, ST – Vladaya: 22.VII.1983, 1♂, ST.

Cheilosia canicularis (Panzer, 1801): Bansko: Bansko National Park, 23.VII.1983, 1♀, ST (Malaise trap) – Gotse Delchev: 01.VI.1982, 4♂ 1♀, ST – Pernik: 12.VII.1983, 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 16♂ 8♀, ST – Yundola: 23.V.1982, 3♂ 2♀, ST.

**Cheilosia carbonaria* Egger, 1860: Batak: 24.V.1982, 1♂, ST – Pirin, деревня Пирин: 21.V.1982, 1♂, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 4♀, ST – Satovcha: 29.V.1982, 1♂, ST.

Cheilosia chloris (Meigen, 1822): Batak: Batak dam, 24.V.1982, 2♂ 1♀, ST – Gotse Delchev: 01.VI.1982, 1♂, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 2♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 4♀, ST – Sandanski: Struma valley: 17.V.1982, 1♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST – Yundola: 23.V.1982, 2♂ 4♀, ST.

Cheilosia chrysocoma (Meigen, 1822): Delchevo: 31.V.1982, 1♂, ST – Rozhen: 18.V.1982, 1♀, ST.

*Cheilosia crassiset*a Loew, 1859: Rila (деревня Рила): 02.VI.1982, 1♂ 3♀, ST.

**Cheilosia cynocephala* Loew, 1840: Melnik: 20.V.1982, 1♀, ST – Pernik: 12.VII.1983, 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 3♀, ST (Malaise trap).

*Cheilosia deras*a Loew, 1857: Pirin, деревня Пирин: 19.V.1982, 3♂, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap) – Sofia: Vitosha Mt., 21.VII.1983, 1♂ 3♀, ST.

**Cheilosia flavipes* (Panzer, 1798): Gotse Delchev: 01.VI.1982, 1♂, ST – Kostenets: 25.VII.1983, 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 3♀, ST.

**Cheilosia frontalis* Loew, 1857: Gotse Delchev: 01.VI.1982, 2♂, ST – Pirin, деревня Пирин: 21.V.1982, 1♂, ST – Rila (деревня Рила): 15.V.1983, 1♂, ÉV – Satovcha: 29.V.1982, 2♂ 1♀, ST – Yundola: 23.V.1982, 1♂, ST.

**Cheilosia gagatea* Loew, 1857: Rila (деревня Рила): 02.VI.1982, 2♂, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

**Cheilosia gigantea* (Zetterstedt, 1838): Batak: 24.V.1982, 2♂ 3♀, ST – Pirin, деревня Пирин: 21.V.1982, 6♂ 2♀, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 4♂ 2♀, ST.

Cheilosia grisella (Becker, 1894): Batak: Batak dam, 24.V.1982, 1♂, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 1♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

Cheilosia himantopus Panzer, 1798: Batak: Batak dam, 24.V.1982, 1♂, ST – Pirin, деревня Пирин: 19.V.1982, 2♂ 1♀, ST – Yundola: 23.V.1982, 1♂, ST.

Cheilosia hypena (Becker, 1894): Rila (деревня Рила): 02.VI.1982, 2♂, ST – Yundola: 23.V.1982, 1♂ 4♀, ST.

**Cheilosia illustrata* (Harris, 1780): Bansko: Bansko National Park, 23.VII.1983, 1♀, ST (Malaise trap) – Rila (деревня Рила): 02.VI.1982, 1♂ 1♀, ST – Sandanski: 10.VII.1970, 1♂ 1♀, AP.

**Cheilosia impressa* Loew, 1840: Bansko: Bansko National Park, 23.VII.1983, 3♂ 1♀, ST (Malaise trap) – Batak: 24.V.1982, 1♂ 1♀, RI – Bistritsa: 20.VII.1983, 3♂ 1♀, ST – Delchevo: 30.V.1982, 1♂ 3♀, ST (Malaise trap) – Kostenets: 25.VII.1983, 1♂, ST – Pazardzhik: 25.VII.1983, 1♂ 3♀, ST – Pernik: 12.VII.1983, 2♂ 2♀, ST – Pirin, деревня Пирин: 21.V.1982, 3♂ 2♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 1♀, ST – Vladya: 22.VII.1983, 1♂, ST – Yundola: 23.V.1982, 1♂ 4♀, ST.

Cheilosia impudens Becker, 1894: Rila (деревня Рила): 02.VI.1982, 2♂, ST – Satovcha: 29.V.1982, 1♂, ST – Yundola: 23.V.1982, 1♂, ST.

Cheilosia insignis Loew, 1857: Rila Mt. Rila valley, 24.VII.1983, 1♂, ST (Malaise trap) – Satovcha: 29.V.1982, 1♂, ST.

**Cheilosia langhofferi* Becker, 1894: Pirin, деревня Пирин: 19.V.1982, 1♂, ST – 21.V.1982, 1♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

Cheilosia lasiopa Kowarz, 1885: Batak: Batak dam, 24.V.1982, 2♂ 3♀, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST – Yundola: 23.V.1982, 1♂, ST.

Cheilosia laticornis Rondani, 1857: Batak: Batak dam, 24.V.1982, 1♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 1♀, ST – Vladya: 22.VII.1983, 1♂, ST.

Cheilosia latifrons (Zetterstedt, 1843): Batak: 24.V.1982, 1♂ 4♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 2♂, ST.

Cheilosia lenis (Becker, 1894): Rila (деревня Рила): 02.VI.1982, 2♂ 4♀, ST – Sandanski: 10.VII.1970, 1♂, AP – Satovcha: 29.V.1982, 3♂ 1♀, ST.

Cheilosia loewi Becker, 1894: Batak: Batak dam, 24.V.1982, 1♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 1♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 1♂, ST.

Cheilosia longula (Zetterstedt, 1838): Batak: Batak dam, 24.V.1982, 1♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 1♂, ST.

**Cheilosia melanura* (Becker, 1894): Rila (деревня Рила): 02.VI.1982, 6♂ 5♀, ST – 15.V.1983, 2♂ 1♀, ÉV – Satovcha: 29.V.1982, 4♂ 3♀, ST – Yundola: 23.V.1982, 2♂, ST.

**Cheilosia montana* Egger, 1860: Rila Mt. Rila valley, 24.VII.1983, 2♂ 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 2♂ 1♀, ST.

**Cheilosia mutabilis* (Fallén, 1817): Batak: 24.V.1982, 1♀, ST; Batak: Batak dam, 24.V.1982, 1♂ 2♀, ST – Bistritsa: 20.VII.1983, 1♀, ST – Delchevo: 31.V.1982, 1♀, ST – Melnik: 20.V.1982, 1♂ 3♀, ST – Rozhen: 18.V.1982, 3♂ 1♀, ST.

Cheilosia nebulosa (Verrall, 1871): Pirin, деревня Пирин: 21.V.1982, 2♂ 2♀, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

**Cheilosia nigripes* (Meigen, 1822): Batak: Batak dam, 24.V.1982, 7♂ 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 4♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 2♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST – Yundola: 23.V.1982, 1♂, ST.

Cheilosia pagana (Meigen, 1822): Batak: 24.V.1982, 3♂ 1♀, ST; Batak: Batak dam, 24.V.1982, 2♂, ST – Pazardzhik: 25.VII.1983, 2♀, ST – Rozhen: 18.V.1982, 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 15.08.1982, 1♂ 1♀, ÁV – Vladya: 22.VII.1983, 2♂ 1♀, ST.

Cheilosia pedemontana Rondani, 1857: Rila (деревня Рила): 02.VI.1982, 1♂ 2♀, ST – Satovcha: 29.V.1982, 1♂ 1♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 2♂ 1♀, ST.

Cheilosia pictipennis Egger, 1860: Batak: Batak dam, 24.V.1982, 1♂ 2♀, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.



Fig. 2: The landscape from Rila valley



Fig. 2: Collecting sites surrounding Melnik



Fig. 4: Characteristic landscape in the Rodope Mts.



Fig. 5: Sorting the collecting material

**Cheilosia praecox* (Zetterstedt, 1843). [Bankowska: as *Cheilosia ruralis* (Meigen, 1822)]: Gotse Delchev: 01.VI.1982, 1♂ 8♀, ST – Yundola: 23.V.1982, 2♂ 6♀, ST – Pirin, деревня Пирин: 21.V.1982, 6♂ 3♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 4♀, ST – Satovcha: 29.V.1982, 2♂ 6♀, ST.

**Cheilosia proxima* (Zetterstedt, 1843): Batak: 24.V.1982, 7♂ 6♀, ST – Pernik: 12.VII.1983, 1♂, ST – Rila (деревня Рила): 02.VI.1982, 14♂ 9♀, ST – Satovcha: 29.V.1982, 1♂ 1♀, ST – Vladaya: 22.VII.1983, 1♀, ST – Yundola: 23.V.1982, 1♂, ST.

**Cheilosia pubera* (Zetterstedt, 1838): Rila Mt. Rila valley, 24.VII.1983, 2♂, ST (Malaise trap) – Satovcha: 29.V.1982, 6♂ 1♀, ST – Yundola: 23.V.1982, 1♂, ST.

Cheilosia ranunculi Doczkal, 2000: Batak: Batak dam, 24.V.1982, 4♂ 1♀, ST – Mihalkovo: 26.V.1982, 6♂ 8♀, ST – Pirin, деревня Пирин: 21.V.1982, 42♂ 23♀, ST – Satovcha: 29.V.1982, 25♂ 30♀, ST – Yundola: 23.V.1982, 18♂ 15♀, ST.

**Cheilosia rhynchops* Egger, 1860: Satovcha: V.29.1982, 1♂, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

**Cheilosia rufimana* Becker, 1894: Pirin, деревня Пирин: 19.V.1982, 2♂, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

**Cheilosia sahlbergi* (Becker, 1894): Rila Mt. Rila valley, 24.VII.1983, 2♂, ST (Malaise trap) – Sandanski: 10.VII.1970, 1♂, AP.

**Cheilosia scutellata* (Fallén, 1817): Batak: Batak dam, 24.V.1982, 1♂ 3♀, ST (Malaise trap) – Pernik: 12.VII.1983, 1♀, ST – Razlog: Park, 22.V.1982, 1♂, ST – Rozhen: 18.V.1982, 2♀, ST.

**Cheilosia semifasciata* (Becker, 1894): Pirin, деревня Пирин: 21.V.1982, 4♂ 1♀, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

Cheilosia soror (Zetterstedt, 1843): Bansko: Bansko National Park, 23.VII.1983, 1♂ 1♀, ST (Malaise trap) – Batak: 24.V.1982, 2♀, RI – Batak: Batak dam, 24.V.1982, 10♀, ST – Gotse Delchev: 02.VI.1982, 2♂, LP – Melnik: 20.V.1982, 1♀, ST – Vladaya: 22.VII.1983, 1♂ 1♀, ST.

**Cheilosia variabilis* (Panzer, 1798): Bansko: Bansko National Park, 23.VII.1983, 4♂ 1♀, ST (Malaise trap) – Batak: 24.V.1982, 2♂ 1♀, RI; Batak: Batak dam, 24.V.1982, 6♂ 1♀, ST – Bistritsa: 20.VII.1983, 1♂ 1♀, ST – Gotse Delchev: 01.VI.1982, 1♂, ST – Pirin, деревня Пирин: 21.V.1982, 2♂ 2♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 4♀, ST.

**Cheilosia velutina* Loew, 1840: Batak: Batak dam, 24.V.1982, 1♂ 1♀, ST – Razlog: Park, 22.V.1982, 1♂, ST – Vladaya: 22.VII.1983, 2♂, ST.

**Cheilosia vernalis* (Fallén, 1817): Batak: Batak dam, 24.V.1982, 3♂ 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂, ST – Satovcha: 29.V.1982, 2♂ 2♀, ST.

Cheilosia vicina (Zetterstedt, 1849): Batak: Batak dam, 24.V.1982, 3♂ 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 1♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 6♀, ST – Satovcha: 29.V.1982, 2♂ 3♀, ST.

Cheilosia vulpina (Meigen, 1822): Pirin, деревня Пирин: 19.V.1982, 3♂, ST – 21.V.1982, 1♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 2♂ 3♀, ST.

Chrysogaster basalis Loew, 1857: Bansko: Bansko National Park, 23.VII.1983, 1♂, ST (Malaise trap) – Pirin, деревня Пирин: 19.V.1982, 3♂ 1♀, ST.

Chrysogaster cemiteriorum (Linnaeus, 1758): Delchevo: 03.VI.1982, 3♂, ST – Gotse Delchev: 01.VI.1982, 1♂ 3♀, ST – Pirin, деревня Пирин: 21.V.1982, 1♂, ST.

**Chrysogaster solstitialis* (Fallén, 1817): Razlog: Park, 22.V.1982, 1♂, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♂ 1♀, ST (Malaise trap) – Satovcha: 29.V.1982, 1♂ 3♀, ST.

**Chrysotoxum arcuatum* (Linnaeus, 1758): Gotse Delchev: 02.VI.1982, 1♂, LP – Melnik: 05.VI.1982, 1♂, ZM – 05.VII.1982, 1♂ 2♀, ÉV – Pirin, деревня Пирин: 19.V.1982, 3♂ 3♀, ST – 21.V.1982, 1♂ 2♀, ST – Rozhen: 18.V.1982, 1♂ 1♀, ST.

Chrysotoxum bicinctum (Linnaeus, 1758): Bistritsa: 20.VII.1983, 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 3♂ 1♀, ST – Razlog: Park, 22.V.1982, 3♂ 1♀, ST – Rozhen: 18.V.1982, 1♂ 1♀, ST.

**Chrysotoxum cautum* (Harris, 1776): Melnik: 05.VII.1982, 1♂ 2♀, ÉV – Pirin, деревня Пирин: 21.V.1982, 3♂ 1♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST.

**Chrysotoxum elegans* Loew, 1841: Rila Mt. Rila valley, 24.VII.1983, 2♂ 3♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♀, ST (Malaise trap).

**Chrysotoxum fasciolatum* (De Geer, 1776): Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap) – Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 21.VII.1983, 1♂, ST.

Chrysotoxum intermedium Meigen, 1822: Gotse Delchev: 02.VI.1982, 1♂, LP – Pirin, деревня Пирин: 19.V.1982, 1♂, ST – Yundola: 23.V.1982 1♂ 1♀, ST.

**Chrysotoxum octomaculatum* Curtis, 1837: Rila Mt. Rila valley, 24.VII.1983, 1♂, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

**Chrysotoxum vernale* Loew, 1841: Batak: Batak dam, 24.V.1982, 2♂ 5♀, ST – Gotse Delchev: 01.VI.1982, 1♂ 4♀, ST – 03.VI.1982, 3♂ 2♀, ST – Yundola: 23.V.1982, 3♂ 5♀, ST – Pirin, деревня Пирин: 19.V.1982, 2♂ 3♀, ST – 21.V.1982, 1♂ 5♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 2♀, ST – Rozhen: 18.V.1982, 1♂ 2♀, ST – Sandanski: Struma valley: 17.V.1982, 1♂ 9♀, ST – Satovcha: 29.V.1982, 2♂ 11♀, ST.

Chrysotoxum verralli Collin, 1940: Gotse Delchev: 01.VI.1982, 1♂ 4♀, ST; 03.VI.1982, 3♂ 2♀, ST – Kostenets: 25.VII.1983, 2♀, ST – Mihalkovo: 26.V.1982, 2♂ 1♀, ST – Pernik: 12.VII.1983, 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 2♂ 3♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 2♀, ST.

**Criorhina asilica* (Fallén, 1816): Batak: 24.V.1982, 1♀, RI – Delchevo: 30.V.1982, 1♂ 1♀, ST (Malaise trap) – Razlog: Park, 22.V.1982, 1♂, ST.

**Dasysyrphus albobristatus* (Fallén, 1817): Gotse Delchev: 01.VI.1982, 1♂ 2♀, ST – 02.VI.1982, 1♂, LP – Melnik: 05.VI.1982, 1♂ 1♀, ZM – Pirin, деревня Пирин: 21.V.1982, 5♂ 2♀, ST – 19.V.1982, 13♂ 3♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST.

**Dasysyrphus friuliensis* (Van der Goot, 1960) (Bańkowska as *Syrphus venustus* var. *friuliensis* Goot): Bansko: Bansko National Park, 23.VII.1983, 2♂ 1♀, ST (Malaise trap) – Rila (деревня Рила): 15.V.1983, 1♂ 1♀, ÉV – Sandanski: 10.VII.1970, 1♂ 1♀, AP – Sofia: Lake Boyana, 19.VII.1983, 4♂ 1♀, ST.

Dasysyrphus hilaris (Zetterstedt, 1843): Pirin, деревня Пирин: 21.V.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST.

Dasysyrphus pinastri (De Geer, 1776): Batak: Batak dam, 24.V.1982, 2♂, ST – Pirin, деревня Пирин: 21.V.1982, 3♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 1♀, ST – 15.V.1983, 1♂, ÉV – Satovcha: 29.V.1982, 5♂ 7♀, ST.

Dasysyrphus tricinctus (Fallén, 1817): Batak: 24.V.1982, 1♂ 1♀, ST – Batak: Batak dam, 24.V.1982, 3♂ 2♀, ST; – Pazardzhik: 25.VII.1983, 1♂ 1♀, ST – Pernik: 12.VII.1983, 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 2♂ 2♀, ST – 21.V.1982, 9♂ 12♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 2♂ 3♀, ST (Malaise trap) – Satovcha: 29.V.1982, 2♂ 12♀, ST.

Dasysyrphus venustus (Meigen, 1822): Batak: Batak dam, 24.V.1982, 5♂ 23♀, ST – Yundola: 23.V.1982, 5♂ 28♀, ST – Pirin, деревня Пирин: 21.V.1982, 3♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 104♂ 86♀, ST.

Didea alneti (Fallén, 1817): Pirin, деревня Пирин: 21.V.1982, 2♂ 1♀, ST – 19.V.1982, 1♂, ST – Rila (деревня Рила): 02.VI.1982, 2♂ 1♀, ST.

Didea fasciata Macquart, 1834: Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST – 19.V.1982, 3♂ 1♀, ST – Satovcha: 29.V.1982, 1♂, ST.

Didea intermedia Loew, 1854: Delchevo: 31.V.1982, 1♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST – Vladaya: 22.VII.1983, 1♀, ST.

Epistrophe diaphana (Zetterstedt, 1843): Razlog: Park, 22.V.1982, 2♂ 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

**Epistrophe eligans* (Harris, 1780): Bansko: Bansko National Park, 23.VII.1983, 1♂ 1♀, ST (Malaise trap) – Batak: 24.V.1982, 1♂, RI – Batak: Batak dam, 24.V.1982, 3♂ 7♀, ST – Melnik: 14.V.1983, 1♂, AP – Pirin, деревня Пирин: 21.V.1982, 2♂ 1♀, ST; 19.V.1982, 1♂, ST.

Epistrophe flava Doczkal & Schmid, 1994: Bistritsa: 20.VII.1983, 1♀, ST – Pirin, деревня Пирин: 19.V.1982, 1♂, ST; 21.V.1982, 1♂, ST.

Epistrophe grossulariae (Meigen, 1822): Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 1♂ 1♀, ÁD-ÁV.

Epistrophe melanostoma (Zetterstedt, 1843): Pernik: 12.VII.1983, 1♂, ST – Pirin, деревня Пирин: 21.V.1982, 1♂, ST – Rozhen: 18.V.1982, 1♂, ST.

Epistrophe nitidicollis (Meigen, 1822): Pirin, деревня Пирин: 19.V.1982, 1♂ 1♀, ST – 21.V.1982, 1♀, ST – Rozhen: 18.V.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 2♂ 4♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 2♂ 3♀, ST – Vladaya: 22.VII.1983, 3♂ 1♀, ST.

**Epistrophe ochrostoma* (Zetterstedt, 1849): Rila Mt. Rila valley, 24.VII.1983, 1♂ 1♀, ST (Malaise trap).

Epistrophella euchroma (Kowarz, 1855): Melnik: 20.V.1982, 1♀, ST – Rila Mt. Rila valley, 24.VII.1983, 1♂, ST (Malaise trap).

**Episyrphus balteatus* (De Geer, 1776): Bansko: Bansko National Park, 23.VII.1983, 4♂ 1♀, ST (Malaise trap) – Gotse Delchev: 02.VI.1982, 1♂, LP – Kostenets: 25.VII.1983, 5♂ 1♀, ST – Melnik: 20.V.1982, 1♂ 4♀, ST – Pazardzhik: 25.VII.1983, 1♂ 7♀, ST – Pernik: 12.VII.1983, 4♂ 2♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♂ 3♀, ST (Malaise trap) – Satovcha: 29.V.1982, 3♂ 5♀, ST – Sofia: Vitosha Mt., 03.VIII.1982, 1♀, ÁD; 15.VIII.1982, 2♀, ÁV – Vladaya: 22.VII.1983, 12♂ 5♀, ST.

Eristalinus aeneus (Scopoli, 1763): Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap) – Sofia: Vitosha Mt., 15.VIII.1982, 1♂ 2♀, ÁD-ÁV.

Eristalinus sepulchralis (Linnaeus, 1758): Bistritsa: 20.VII.1983, 2♂ 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST – Yundola: 23.V.1982, 1♂ 3♀, ST.

Eristalis abusiva Collin, 1931: Melnik: 20.V.1982, 2♂ 1♀, ST – Pernik: 12.VII.1983, 1♂, ST.

**Eristalis alpina* (Panzer, 1798): Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap) – Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 2♂ 1♀, ST.

**Eristalis arbustorum* (Linnaeus, 1758): Delchevo: 03.VI.1982, 3♂, ST – Gotse Delchev: 02.VI.1982, 1♀, LP – Melnik: 10.VIII.1982, 1♂, ÁV – Pazardzhik: 25.VII.1983, 3♂ 2♀, ST – Pirin, деревня Пирин: 21.V.1982, 6♂ 4♀, ST – Rila (деревня Рила): 02.VI.1982, 6♂ 2♀, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 27♂ 7♀, ST – Vladaya: 22.VII.1983, 8♂ 3♀, ST.

**Eristalis horticola* (De Geer, 1776): Rila Mt. Rila valley, 24.VII.1983, 2♂ 1♀, ST (Malaise trap) – Satovcha: 29.V.1982, 1♂ 2♀, ST.

**Eristalis interrupta* (Poda, 1761): Yundola: 23.V.1982, 2♂ 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 2♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 4♀, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST.

Eristalis intricaria (Linnaeus, 1758): Pazardzhik: 25.VII.1983, 1♀, ST – Razlog: Park, 22.V.1982, 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♀, ST (Malaise trap).

Eristalis jugorum Egger, 1858: Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap) – Sandanski: 10.VII.1970, 1♂, AP – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

Eristalis pertinax (Scopoli, 1763): Bansko: Bansko National Park, 23.VII.1983, 1♀, ST (Malaise trap) – Gotse Delchev: 01.VI.1982, 3♂ 1♀, ST – Rozhen: 18.V.1982, 1♂ 2♀, ST – Vladaya: 22.VII.1983, 1♂ 4♀, ST.

**Eristalis rupium* (Fabricius, 1805): Bansko: Bansko National Park, 23.VII.1983, 2♂ 1♀, ST (Malaise trap) – Gotse Delchev: 01.VI.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST.

**Eristalis similis* Fallén, 1817: Delchevo: 30.V.1982, 3♂ 1♀, ST (Malaise trap) – Gotse Delchev: 01.VI.1982, 1♂ 1♀, ST – Sandanski: Struma valley: 17.V.1982, 2♂ 1♀, ST.

**Eristalis tenax* (Linnaeus, 1758): Gotse Delchev: 01.VI.1982, 4♂ 4♀, ST – Kostenets: 25.VII.1983, 1♂ 4♀, ST – Melnik: 10.VIII.1982, 1♀, ÁD – Mihalkovo: 26.V.1982, 2♂, ST – Pernik: 12.VII.1983, 2♂ 5♀, ST – Perushtitsa: 25.V.1982, 2♂, ST – Pirin, деревня Пирин: 19.V.1982, 8♂ 2♀, ST – 21.V.1982, 14♂ 8♀, ST – Pirin Mt., Banderica National Park: 07.VIII.1968, 1♂, SH – 06.VIII.1982, 3♂, ÁV – 08.VIII.1982, 1♂, ÁD – 09.VIII.1982, 2♂ 1♀, ÁV – Pirin Mt., Bansko National Park: 05.VIII.1982, 1♂, ÁV – Rila (деревня Рила): 02.VI.1982, 3♂ 1♀, ST – 15.V.1983, 1♂, ÉV – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 25♂ 13♀, ST – Sofia: Vitosha Mt., 03.VIII.1982, 8♂ 6♀, ÁD; 03.VIII.1982, 9♂ 6♀, ÁV – 15.VIII.1982, 1♂, ÁD – 18.VIII.1982, 3♂, ÁV; 18.VIII.1982, 4♂, ÁD – 28.VIII.1982, 1♂, ÁD.

**Eumerus olivaceus* Loew, 1848: Rila Mt. Rila valley, 24.VII.1983, 1♂ 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

Eumerus pulchellus Loew, 1848: Sofia: Lake Boyana, 19.VII.1983, 1♂, ST – Yundola: 23.V.1982 1♂, ST.

Eumerus sogdianus Stackelberg, 1952: Pernik: 12.VII.1983, 1♂, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap):

**Eumerus strigatus* (Fallén, 1817): Melnik: 20.V.1982, 1♂, ST – Rila Mt. Rila valley, 24.VII.1983, 2♂, ST (Malaise trap) – Sofia: Vitosha Mt., 21.VII.1983, 2♂, ST.

Eumerus tricolor (Fabricius, 1798): Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap).

**Eupeodes corollae* (Fabricius, 1794): Batak: Batak dam, 24.V.1982, 3♂ 12♀, ST – Melnik: 20.V.1982, 1♂ 3♀, ST – Pirin, Banderica National Park: 09.VIII.1982, 1♀, ÁD – Gotse Delchev: 01.VI.1982, 4♂ 4♀, ST – Pirin, деревня Пирин: 19.V.1982, 8♂ 2♀, ST – 21.V.1982, 3♂ 8♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 1♀, ST – 15.V.1983, 1♂, ÉV – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST –

Satovcha: 29.V.1982, 1♂ 12♀, ST – Vladaya: 22.VII.1983, 1♂ 7♀, ST.

Eupeodes flaviceps (Rondani, 1857): Batak: Batak dam, 24.V.1982, 1♂, ST – Pirin, деревня Пирин: 19.V.1982, 1♂ 1♀, ST; 21.V.1982, 2♂, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 1♀, ST – Satovcha: 29.V.1982, 1♂, ST.

**Eupeodes lapponicus* (Zetterstedt, 1830): Batak: Batak dam, 24.V.1982, 2♂ 1♀, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 2♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST.

Eupeodes latifasciatus (Macquart, 1829): Pirin, деревня Пирин: 21.V.1982, 1♂ 5♀, ST – Satovcha: 29.V.1982, 2♂ 6♀, ST.

Eupeodes latilunulatus (Collin, 1931): Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 1♂, ST.



Fig. 6: Struma valley with Malaise trap



Fig. 7: Collecting site and camp near Satovcha



Fig 8: *Merodon nigratarsis* Rondani, 1845



Fig 9: *Temnostoma bombylans* (Fabricius, 1805)

**Eupeodes luniger* (Meigen, 1822): Pazardzhik: 25.VII.1983, 1♂, ST – Pirin, деревня Пирин: 19.V.1982, 1♂ 3♀, ST – 21.V.1982, 7♂ 57♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 2♀, ST – Rozhen: 18.V.1982, 1♂, ST – Satovcha: 29.V.1982, 2♂ 15♀, ST – Yundola: 23.V.1982, 1♂ 2♀, ST.

**Eupeodes nitens* (Zetterstedt, 1843): Gotse Delchev: 01.VI.1982, 2♂, ST – Pirin, деревня Пирин: 19.V.1982, 1♂ 3♀, ST – Satovcha: 29.V.1982, 1♂ 1♀, ST.

Ferdinandea cuprea (Scopoli, 1763): Razlog: Park, 22.V.1982, 3♀, ST – Rila Mt. Rila valley, 24.VII.1983, 1♂, ST (Malaise trap).

**Hammerschmidtia ferruginea* (Fallén, 1817): Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♂ 1♀, ST.

**Helophilus pendulus* (Linnaeus, 1758): Melnik: 20.V.1982, 1♂, ST – Rozhen: 18.V.1982, 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 3♀, ST (Malaise trap).

**Helophilus trivittatus* (Fabricius, 1805): Delchevo: 31.V.1982, 1♂ 1♀, ST – Pazardzhik: 25.VII.1983, 1♂ 2♀, ST – Pernik: 12.VII.1983, 1♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 2♂ 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 1♀, AD – Vladaya: 22.VII.1983, 3♂ 1♀, ST.

Heringia heringi (Zetterstedt, 1843): Mihalkovo: 26.V.1982, 2♂, ST – Razlog: Park, 22.V.1982, 1♂, ST.

Ischyrosyrphus glaucius (Linnaeus, 1758): Bansko: Bansko National Park, 23.VII.1983, 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

**Lejogaster metallina* (Fabricius, 1777): Pirin Mt., Bansko National Park: 08.VI.1982, 1♂, AD-ÁV – Satovcha: 29.V.1982, 1♂ 1♀, ST – Yundola: 23.V.1982, 3♂ 1♀, ST.

Lejogaster tarsata (Meigen, 1822): Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap) – Yundola: 23.V.1982, 3♂, ST.

Leucozona lucorum (Linnaeus, 1758): Bistritsa: 20.VII.1983, 2♂, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 2♀, ST (Malaise trap) – Sofia: Vitosha Mt., 21.VII.1983, 2♂ 1♀, ST.

Megasyrphus erraticus (Linnaeus, 1758): Mihalkovo: 26.V.1982, 1♀, ST – Satovcha: 29.V.1982, 1♂ 1♀, ST.

Melangyna barbifrons (Fallén, 1817): Pirin, деревня Пирин: 19.V.1982, 1♂ 2♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST.

Melangyna compositarum (Verrall, 1873): Satovcha: 29.V.1982, 1♀, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂ 3♀, ST.

**Melangyna lasiophthalma* (Zetterstedt, 1843): Pirin, деревня Пирин: 19.V.1982, 1♂ 1♀, ST; 21.V.1982, 3♂ 7♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 4♀, ST – Satovcha: 29.V.1982, 2♂ 9♀, ST – Yundola: 23.V.1982, 1♂ 3♀, ST.

Melangyna quadrimaculata (Verrall, 1873): Sofia: Lake Boyana, 19-22.VII.1983, 4♂ 1♀, ST (Malaise trap).

Melanogaster aerosa (Loew, 1843): Pirin, деревня Пирин: 19.V.1982, 2♂, TS – Satovcha: 29.V.1982, 3♂ 1♀, ST.

Melanogaster curvistylus Vujic & Stuke, 1998: Pirin, деревня Пирин: 19.V.1982, 1♂, ST.

Melanogaster hirtella (Loew, 1843): Sandanski: Struma valley, 17.V.1982, ST, 1♂ 1♀, ST (Malaise trap) – Satovcha: 29.V.1982, 1♂ 2♀, ST.

Melanogaster nuda (Macquart, 1829): Batak: Batak dam, 24.V.1982, 4♂ 2♀, ST – Gotse Delchev: 01.VI.1982, 2♂ 3♀, ST; 02.VI.1982, 1♂, LP – Yundola: 23.V.1982, 15♂ 14♀, ST – Pirin, деревня Пирин: 19.V.1982, 29♂ 14♀, TS; 21.V.1982, 157♂ 27♀, ST – Mihalkovo: 26.V.1982, 7♂ 8♀, ST – Satovcha: 29.V.1982, 19♂ 11♀, ST – Sztrumesnica: 17.V.1982, 3♂ 4♀, ST.

Melanostoma dubium (Zetterstedt, 1837): Bansko: Bansko National Park, 23.VII.1983, 2♂ 2♀, ST (Malaise trap) – Pirin, деревня Пирин: 19.V.1982, 1♂, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

**Melanostoma mellinum* (Linnaeus, 1758): Batak: Batak dam, 24.V.1982, 3♂ 23♀, ST (Malaise trap) – Bistritsa: 20.VII.1983, 3♂ 1♀, ST – Kostenets: 25.VII.1983, 1♂ 1♀, ST – Melnik: 10.VIII.1982, 1♀, ÁD – Mihalkovo: 26.V.1982, 2♂ 4♀, ST – Pernik: 12.VII.1983, 2♂ 3♀, ST – Pirin, деревня Пирин: 21.V.1982, 1♂ 4♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 5♀, ST – Satovcha: 29.V.1982, 5♂ 7♀, ST.

Melanostoma scalare (Fabricius, 1794): Melnik: 10.VIII.1982, 1♀, ÁV – Mihalkovo: 26.V.1982, 26♂ 3♀, ST – Pirin, деревня Пирин: 21.V.1982, 2♂ 7♀, ST – Razlog: Park, 22.V.1982, 1♀, ST – Rila (деревня Рила): 15.V.1983, 1♂, ÉV.

Meligramma cincta (Fallén, 1817): Gotse Delchev: 01.VI.1982, 1♂ 4♀, ST – Yundola: 23.V.1982, 3♂ 5♀, ST – Pirin, деревня Пирин: 19.V.1982, 2♂ 4♀, ST; 21.V.1982, 5♂ 14♀, ST – Pirin Mt. Rozhen: 18.V.1982, 1♂ 2♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 2♀, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST.

**Meliscaeva auricollis* (Meigen, 1822): Pirin, деревня Пирин: 19.V.1982, 2♂ 3♀, ST; 21.V.1982, 1♂ 11♀, ST – Rila (деревня Рила): 02.VI.1982, 3♀, ST – Satovcha: 29.V.1982, 2♂ 4♀, ST.

**Meliscaeva cinctella* (Zetterstedt, 1843): Batak: Batak dam, 24.V.1982, 2♀, ST (Malaise trap) – Delchevo: 31.V.1982, 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 1♂ 3♀, ST; 21.V.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 9♂ 4♀, ST.

Merodon aberrans Egger, 1860: Pirin, деревня Пирин: 19.V.1982, 1♂, ST – Yundola: 23.V.1982 1♂, ST.

**Merodon aeneus* Meigen, 1822: Pirin, деревня Пирин: 21.V.1982, 1♂, ST – Rila (деревня Рила): 02.VI.1982, 15♂ 3♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST – Sofia: Vitosha Mt., 03.VIII.1982, 1♂, ÁD-ÁV.

Merodon albifrons Meigen, 1822: Melnik: 20.V.1982, 1♂, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap).

Merodon armipes Rondani, 1843: Batak: Batak dam, 24.V.1982, 3♂ 1♀, ST – Satovcha: 29.V.1982, 6♂ 1♀, ST – Yundola: 23.V.1982, 1♂, ST.

Merodon avidus (Rossi, 1790): Delchevo: 03.VI.1982, 1♂ 2♀, ST – Pirin, деревня Пирин: 21.V.1982, 2♂ 4♀, ST – Satovcha: 29.V.1982, 9♂ 5♀, ST.

**Merodon cinereus* (Fabricius, 1794): Pirin Mt. Banderica National Park: 07.VIII.1968, 1♂, SH; 09.VIII.1982, 2♂ 1♀, ÁD-ÁV – Sofia: Vitosha Mt., 03.VIII.1982, 1♂, ÁD-ÁV.

Merodon clavipes (Fabricius, 1781): Sandanski: Struma valley: 17.V.1982, 4♂ 2♀, ST – Satovcha: 29.V.1982, 1♂ 1♀, ST.

**Merodon constans* (Rossi, 1794): Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap) – Mihalkovo: 26.V.1982, 1♂ 2♀, ST – Pernik: 12.VII.1983, 2♂ 1♀, ST.

Merodon loewi Goot, 1964: Rila Mt. Rila valley, 24.VII.1983, 2♂, ST (Malaise trap) – Sandanski: Struma valley: 17.V.1982, 1♂, ST.

Merodon nigratarsis Rondani, 1845: Rozhen: 18.V.1982, 1♂, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂ 1♀, ST.

Merodon ruficornis Meigen, 1822: Pirin, деревня Пирин: 21.V.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 1♂ 1♀, ST – Yundola: 23.V.1982 1♂, ST.

Merodon spinitarsis (Paramonov, 1929): Sandanski: Struma valley: 17.V.1982, 2♂, ST.

Mesembrius peregrinus (Loew, 1846): Delchevo: 31.V.1982, 2♀, ST – Rozhen: 18.V.1982, 1♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 4♀, ST (Malaise trap).

**Microdon devius* (Linnaeus, 1761): Bansko: Bansko National Park, 23.VII.1983, 1♂ 1♀, ST (Malaise trap) – Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap).

Microdon eggeri Mik, 1897: Rila (деревня Рила): 02.VI.1982, 1♂ 1♀, ST – Satovcha: 29.V.1982, 1♀, ST.

**Microdon mutabilis* (Linnaeus, 1758): Gotse Delchev: 01.VI.1982, 2♂, ST – Pernik: 12.VII.1983, 1♂ 2♀, ST – Vladaya: 22.VII.1983, 2♂ 1♀, ST – Yundola: 02.V.1982, 1♀, ST.

**Myathropa florea* (Linnaeus, 1758): Bistritsa: 20.VII.1983, 1♂ 1♀, ST – Delchevo: 30.V.1982, 1♂ 4♀, ST (Malaise trap) – Kostenets: 25.VII.1983, 1♂ 1♀, ST – Pernik: 12.VII.1983, 2♂ 4♀, ST – Razlog: Park, 22.V.1982, 1♀, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 1♂ 3♀, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂ 5♀, ST – Yundola: 23.V.1982, 3♂ 1♀, ST.

**Myolepta dubia* (Fabricius, 1805) [Bankowska as *Myolepta luteola* (Gmelin, 1790)]: Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap) – Delchevo: 31.V.1982, 1♂, ST.

Myolepta nigritarsis Coe, 1957: Rodope Mt. Dolcevo: 03.VI.1982, 2♂ 1♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 1♂, ST.

**Neoascia annexa* (Müller, 1776) [Bankowska as *Neoascia floralis* (Meigen, 1822): Bansko: Bansko National Park, 23.VII.1983, 2♂ 1♀, ST (Malaise trap) – Pirin, деревня Пирин: 21.V.1982, 7♂ 2♀, ST.

**Neoascia geniculata* (Meigen, 1822): Sofia: Lake Boyana, 19-22.VII.1983, 4♂ 1♀, ST (Malaise trap).

**Neoascia interrupta* (Meigen, 1822): Sofia: Lake Boyana, 19-22.VII.1983, 2♂ 1♀, ST (Malaise trap).

**Neoascia meticulosa* (Scopoli, 1763) [Bankowska as *Neoascia aenea* (Meigen, 1822)]: Sofia: Lake Boyana, 19-22.VII.1983, 2♂ 1♀, ST (Malaise trap).

Neoascia obliqua Coe, 1940: Mihalkovo: 26.V.1982, 2♂, ST – Pirin, деревня Пирин: 21.V.1982, 38♂ 5♀, ST – Sofia: Vitosha Mt., 15.VIII.1982, 2♂ 1♀, AD-AV – Yundola: 23.V.1982, 3♂ 1♀, ST.

**Neoascia podagrica* (Fabricius, 1775): Pazardzhik: 25.VII.1983, 1♂ 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 3♂ 2♀, ST; 21.V.1982, 1♂, ST – Sofia: Vitosha Mt., 15.VIII.1982, 2♂ 2♀, AD-ÁV.

**Neoascia tenur* (Harris, 1780): [Bankowska as *Neoascia dispar* (Meigen, 1822)]: Pirin, деревня Пирин: 19.V.1982, 4♂ 2♀, ST – 21.V.1982, 11♂ 1♀, ST – Satovcha: 29.V.1982, 3♂, ST – Sofia: Vitosha Mt., 21.VII.1983, 2♂ 1♀, ST.

Neoascia unifasciata (Strobl, 1898): Pirin, деревня Пирин: 19.V.1982, 3♂ 2♀, ST; 21.V.1982, 1♀, ST.

**Neocnemodon pubescens* (Delucchi & Pschorn-Walcher, 1955): Pirin, деревня Пирин: 21.V.1982, 2♂, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 1♀, ST – Satovcha: 29.V.1982, 33♂ 24♀, ST.

Neocnemodon vitripennis (Meigen, 1822): Delchevo: 31.V.1982, 1♂, ST – Pirin, деревня Пирин: 19.V.1982, 2♂, ST – Rila Mt. Rila valley, 24.VII.1983, 2♂, ST (Malaise trap) – Vladaya: 22.VII.1983, 1♂, ST.

Orthonevra brevicornis (Loew, 1843): Pirin, деревня Пирин: 21.V.1982, 1♂ 1♀, ST – Satovcha: 29.V.1982, 8♂ 2♀, ST.

Orthonevra elegans (Meigen, 1822): Batak: 24.V.1982, 2♂ 1♀, ST – Delchevo: 30.V.1982, 1♂, ST (Malaise trap).

Orthonevra frontalis (Loew, 1843): Delchevo: 03.VI.1982, 1♂, ST – Pirin, деревня Пирин: 29.V.1982, 1♂, ST – Yundola: 23.V.1982, 2♂ 1♀, ST.

**Orthonevra nobilis* (Fallén, 1817): Gotse Delchev: 01.VI.1982, 3♂ 1♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂, ST – Satovcha: 29.V.1982, 12♂ 3♀, ST.

Orthonevra splendens (Meigen, 1822): Pernik: 12.VII.1983, 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 3♀, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

Paragus absidatus Goeldlin de Tiefenau, 1971: Batak: Batak dam, 24.V.1982, 1♂, ST.

**Paragus bicolor* (Fabricius, 1794): Bistritsa: 20.VII.1983, 1♂, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST.

Paragus finitimus Goeldlin de Tiefenau, 1971: Melnik: 20.V.1982, 3♂ 1♀, ST – Pernik: 12.VII.1983, 2♂ 1♀, ST – Razlog: Park, 22.V.1982, 1♂, ST.

Paragus haemorrhous Meigen, 1822: Pirin Mt., Bansko National Park: 05.VIII.1982, 1♀, ÁV – Rila Mt. Rila valley: 24.VII.1983, 3♂ 1♀, ST (Malaise trap) – Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap) – Vladaya: 22.VII.1983, 2♂ 1♀, ST.

Paragus majoranae Rondani, 1857: Bansko: Bansko National Park, 23.VII.1983, 2♂, ST (Malaise trap) – Batak: Batak dam, 24.V.1982, 1♂ 1♀, ST – Pernik: 12.VII.1983, 2♂, ST.

**Paragus tibialis* (Fallén, 1817): Melnik: 10.VIII.1982, 1♂, ÁD-ÁV – Pirin, Banderica National Park: 07.VIII.1968, 1♂, SH; 06.VIII.1982, 1♂, ÁD-ÁV.

Parasyrphus annulatus (Zetterstedt, 1838): Pirin, деревня Пирин: 19.V.1982, 2♂, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST – Sofia: Vitosha Mt., 03.VIII.1982, 2♂ 1♀, ÁD-ÁV – 18.VIII.1982, 1♀, ÁD-ÁV – Yundola: 23.V.1982 1♂ 2♀, ST.

**Parasyrphus lineola* (Zetterstedt, 1843): Pirin, деревня Пирин: 19.V.1982, 3♂ 1♀, ST – 21.V.1982, 2♂ 2♀, ST – Satovcha: 29.V.1982, 26♂ 17♀, ST – Yundola: 23.V.1982 1♂, ST.

Parasyrphus macularis (Zetterstedt, 1843): Bansko: Bansko National Park, 23.VII.1983, 1♀, ST (Malaise trap) – Rila (деревня Рила): 15.V.1983, 5♂ 1♀, ÉV.

**Parasyrphus malinellus* (Collin, 1952): Pirin, деревня Пирин: 19.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST – Sofia: Lake Boyana, 19.VII.1983, 2♂ 1♀, ST.

Parasyrphus nigratarsis (Zetterstedt, 1843): Pirin, деревня Пирин: 21.V.1982, 1♂ 2♀, ST – Sofia: Vitosha Mt., 03.VIII.1982, 1♂ 1♀, ÁD-ÁV.

Parasyrphus punctulatus (Verrall, 1843): Batak: Batak dam, 24.V.1982, 4♂, ST – Pirin, деревня Пирин: 19.V.1982, 3♂ 6♀, ST – 21.V.1982, 9♂ 12♀, ST – Pirin Mt. Rozhen: 18.V.1982, 1♂ 2♀, ST – Rila (деревня Рила): 15.V.1983, 2♂ 5♀, ÉV – 02.VI.1982, 1♂ 4♀, ST – Satovcha: 29.V.1982, 14♂ 7♀, ST.

Parasyrphus vittiger (Zetterstedt, 1843): Batak: Batak dam, 24.V.1982, 1♂ 2♀, ST – Gotse Delchev: 02.VI.1982, 3♂, LP – 01.VI.1982, 1♂ 3♀, ST – Pirin, деревня Пирин: 19.V.1982, 4♂ 2♀, TS – 21.V.1982, 5♂ 2♀, ST – Pirin Mt. Bandaria National Park: 09.VIII.1982, 1♂ 2♀, ÁD-ÁV – Rila (деревня Рила): 02.VI.1982, 1♂ 1♀, ST – Satovcha: 29.V.1982, 39♂ 38♀, ST – Yundola: 23.V.1982, 3♂ 16♀, ST.

Parhelophilus frutetorum (Fabricius, 1775): Delchevo: 31.V.1982, 2♂, ST – Mihalkovo: 26.V.1982, 1♂, ST – Rila Mt. Rila valley, 24.VII.1983, 1♂ 1♀, ST (Malaise trap).

Parhelophilus versicolor (Fabricius, 1794): Gotse Delchev: 01.VI.1982, 1♂ 3♀, ST – Pazardzhik: 25.VII.1983, 1♂ 3♀, ST – Pernik: 12.VII.1983, 3♂ 2♀, ST – Rozhen: 18.V.1982, 2♂ 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap).

Pipiza austriaca Meigen, 1822: Bansko: Bansko National Park, 23.VII.1983, 2♀, ST (Malaise trap) – Satovcha: V.29.1982, 1♂ 1♀, ST – Sofia: Lake Boyana, 19.VII.1983, 2♂, ST.

**Pipiza bimaculata* Meigen, 1822: Pirin, деревня Пирин: 19.V.1982, 1♂ 1♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST.

**Pipiza fasciata* Meigen, 1822: Delchevo: 31.V.1982, 1♂ 1♀, ST – Rila Mt. Rila valley, 24.VII.1983, 2♂, ST (Malaise trap).

**Pipiza festiva* Meigen, 1822: Batak: Batak dam, 24.V.1982, 1♀, ST – Bistritsa: 20.VII.1983, 3♂, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST.

Pipiza noctiluca (Linnaeus, 1758): Pirin, деревня Пирин: 21.V.1982, 3♂ 4♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 4♀, ST; 15.V.1983, 1♀, ÉV – Satovcha: 29.V.1982, 1♂, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

**Pipiza quadrimaculata* (Panzer, 1804): Bansko: Bansko National Park, 23.VII.1983, 1♂ 1♀, ST (Malaise trap) – Satovcha: 29.V.1982, 1♂, ST – Sofia: Lake Boyana, 19.VII.1983, 1♂ 3♀, ST.

Pipizella annulata (Macquart, 1829): Batak: Batak dam, 24.V.1982, 2♂, ST (Malaise trap) – Melnik: 20.V.1982, 1♂, ST.

Pipizella divicoi (Goeldlin de Tiefenau, 1974): Batak: Batak dam, 24.V.1982, 3♂, ST – Gotse Delchev: 01.VI.1982, 2♂, ST – Pirin, деревня Пирин: 21.V.1982, 2♂ 1♀, ST – Satovcha: 29.V.1982, 1♂, ST.

Pipizella maculipennis (Meigen, 1822): Razlog: Park, 22.V.1982, 2♂, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap).

**Pipizella viduata* (Linnaeus, 1758): Batak: 24.V.1982, 3♂ 1♀, ST – Batak: Batak dam, 24.V.1982, 5♂ 1♀, ST; Pazardzhik: 25.VII.1983, 2♂, ST – Pernik: 12.VII.1983, 2♂, ST – Pirin, деревня Пирин: 21.V.1982, 7♂ 3♀, ST – Pirin Mt. Bandaria National Park: 09.VIII.1982, 1♂ 2♀, ÁD-ÁV – Satovcha: 29.V.1982, 1♂, ST – Yundola: 23.V.1982, 2♂, ST.

**Platycheirus albimanus* (Fabricius, 1781): Gotse Delchev: 01.VI.1982, 1♂, ST – Pirin, деревня Пирин: 19.V.1982, 2♂ 3♀, ST; 21.V.1982, 3♂ 29♀, ST – Rila (деревня Рила): 02.VI.1982, 2♀, ST; 15.V.1983, 1♂ 1♀, ÉV – Satovcha: 29.V.1982, 4♂ 6♀, ST – Sofia: Vitosha Mt., 03.VIII.1982, 2♂ 4♀, ÁD; 15.VIII.1982, 1♀, ÁV – Yundola: 23.V.1982, 1♂ 4♀, ST.

**Platycheirus ambiguus* (Fallén, 1817): Rila (деревня Рила): 15.V.1983, 1♂ 1♀, ÉV – Satovcha: 29.V.1982, 1♂, ST.

Platycheirus angustatus (Zetterstedt, 1843): Melnik: 05.VII.1983, 1♂ 2♀, ÉV – Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 3♀, ST (Malaise trap).

**Platycheirus clypeatus* (Meigen, 1822): Melnik: 20.V.1982, 1♂ 2♀, ST – Pernik: 12.VII.1983, 2♂ 1♀, ST – Rozhen: 18.V.1982, 1♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 5♀, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 1♂ 5♀, ÁD-ÁV – Vladaya: 22.VII.1983, 4♂ 1♀, ST.

Platycheirus europaeus Goeldlin, Maibach & Speight, 1990: Batak dam, 24.V.1982, 2♂ 1♀, ST (Malaise trap) – Yundola: 23.V.1982 1♂ 1♀, ST.

Platycheirus fulviventris (Macquart, 1829): Batak: Batak dam, 24.V.1982, 2♂ 2♀, ST (Malaise trap) – Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap).

Platycheirus immaculatus (Ohara, 1980): Pirin, деревня Пирин: 19.V.1982, 1♂, ST (Nielsen det.)

Platycheirus latimanus (Wahlberg, 1844): Rila Mt. Rila valley, 24.VII.1983, 2♂ 1♀, ST (Malaise trap) – Satovcha: 29.V.1982, 2♂, ST (Nielsen det.).

Platycheirus manicatus (Meigen, 1822): Bansko: Bansko National Park, 23.VII.1983, 2♂ 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 1♂ 1♀, ÁD-ÁV.

Platycheirus parmatus Rondani, 1857: Rila (деревня Рила): 15.V.1983, 1♂, ÉV – Rila Mt. Rila valley, 24.VII.1983, 2♂ 1♀, ST (Malaise trap).

Platycheirus peltatus (Meigen, 1822): Batak: Batak dam, 24.V.1982, 2♂ 1♀, ST (Malaise trap) – Batak: Batak dam, 24.V.1982, 4♂ 2♀, ST – Delchevo: 31.V.1982, 1♂

4♀, ST – Rila Mt. Rila valley, 24.VII.1983, 3♂ 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 3♂ 1♀, ST (Malaise trap).

**Platycheirus scutatus* (Meigen, 1822): Pirin, деревня Пирин: 19.V.1982, 2♂ 1♀, ST – 21.V.1982, 3♂ 2♀, ST – Rila (деревня Рила): 02.VI.1982, 2♀, ST – 15.V.1983, 1♀, ÉV – Satovcha: 29.V.1982, 1♂ 2♀, ST.

**Platycheirus tarsalis* (Schummel, 1836): Bansko: Bansko National Park, 23.VII.1983, 1♂, ST (Malaise trap) – Rila Mt. Rila valley, 24.VII.1983, 4♂ 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 3♂ 1♀, ST – Sofia: Vitosha Mt., 21.VII.1983, 1♂ 4♀, ST.

Psilota anthracina Meigen, 1822: Sandanski: Struma valley: 17.V.1982, 1♂, ST.

**Pyrophaena rosarum* (Fabricius, 1787): Batak: Batak dam, 24.V.1982, 1♂, ST – Batak: Batak dam, 24.V.1982, 1♂ 1♀, ST (Malaise trap) – Delchevo: 30.V.1982, 1♀, ST (Malaise trap).

Rhingia campestris Meigen, 1822: Rozhen: 18.V.1982, 1♂ 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 2♂ 1♀, ST (Malaise trap).

Scaeva albomaculata (Macquart, 1842): Gotse Delchev: 02.VI.1982, 1♂, LP – Yundola: 23.V.1982 1♂ 2♀, ST.

**Scaeva pyrastris* (Linnaeus, 1758): Batak: Batak dam, 24.V.1982, 5♂ 1♀, ST – Batak: Batak dam, 24.V.1982, 3♀, ST (Malaise trap) – Delchevo: 31.V.1982, 4♀, ST – Gotse Delchev: 02.VI.1982, 1♀, LP – Melnik: 20.V.1982, 1♂, ST – Pazardzhik: 25.VII.1983, 3♀, ST – Vladaya: 22.VII.1983, 4♂ 1♀, ST.

**Scaeva selenitica* (Meigen, 1822): Rila Mt. Rila valley, 24.VII.1983, 1♂ 1♀, ST (Malaise trap) – Sandanski: Struma valley, 17.V.1982, ST, 2♀, ST (Malaise trap) – Yundola: 23.V.1982, 1♂, ST –

**Sericomyia lappona* (Linnaeus, 1758): Gotse Delchev: 01.VI.1982, 1♀, ST – Satovcha: 29.V.1982, 2♂ 1♀, ST – Sofia: Vitosha: Mt., 09.VI.1966, 1♂ 1♀, LP.

Sericomyia silentis (Harris, [1776]): Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♂ 2♀, ST – Sofia: Vitosha Mt., 09.VI.1966, 1♂, LP.

Sphaerophoria batava Goeldlin de Tiefenau, 1974: Satovcha: 29.V.1982, 29♂, ST – Yundola: 23.V.1982, 8♂ 2♀, ST.

**Sphaerophoria interrupta* (Fabricius, 1805) (Bańkowska: as *Sphaerophoria picta* (Meigen, 1822): Sofia: Vitosha Mt., 03.VIII.1982, 2♂ 1♀, ÁD-ÁV.

Sphaerophoria loewi Zetterstedt, 1843: Melnik: 20.V.1982, 2♂ 1♀, ST – Pernik: 12.VII.1983, 2♀, ST.

**Sphaerophoria philanthus* (Meigen, 1822) (Bańkowska as ?*Sphaerophoria dubia* Zetterstedt, 1849: Bansko: Bansko National Park, 23.VII.1983, 1♂, ST (Malaise trap).

**Sphaerophoria scripta* (Linnaeus, 1758): Batak: 24.V.1982, 6♂ 2♀, ST – Batak: Batak dam, 24.V.1982, 12♂ 3♀, ST – Delchevo: 03.VI.1982, 1♂ 2♀, ST – Gotse Delchev: 01.VI.1982, 1♂ 1♀, ST – 02.VI.1982, 4♂ 3♀, LP – Kostenets: 25.VII.1983, 4♂ 1♀, ST – Melnik: 10.08.1982, 1♂ 8♀, ÁV – Mihalkovo: 26.V.1982, 7♂ 3♀, ST – Pirin, деревня Пирин: 19.V.1982, 10♂ 7♀, ST – 21.V.1982, 18♂ 12♀, ST – Pirin Mt., Banderica National Park: 07.VIII.1968, 1♂, SH; 08.VIII.1982, 4♂ 3♀, ÁD; 09.VIII.1982, 2♂, ÁV; 09.VIII.1982, 2♂ 10♀, ÁD – Pirin Mt., Bansko National Park: 08.VIII.1982, 1♂ 1♀, ÁD – Rozhen: 18.V.1982, 2♂ 6♀, ST – Rila (деревня Рила): 02.VI.1982, 5♂ 2♀, ST – Rodope Mt., Delchevo: 03.VI.1982, 1♂ 2♀, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 3♂ 4♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 8♂ 2♀, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 1♂ 3♀, ÁD – Vladaya: 22.VII.1983, 5♂ 2♀, ST – Yundola: 23.V.1982, 3♂ 6♀, ST.

Sphaerophoria taeniata (Meigen, 1822): Batak: Batak dam, 24.V.1982, 2♂, ST (Malaise trap) – Bistritsa: 20.VII.1983, 1♂, ST – Mihalkovo: 26.V.1982, 3♂, ST – Satovcha: 29.V.1982, 1♂, ST.

Sphaerophoria virgata Goeldlin de Tiefenau, 1974: Pirin, деревня Пирин: 19.V.1982, 2♂, ST; 21.V.1982, 8♂ 1♀, ST – Satovcha: 29.V.1982, 1♂ 2♀, ST – Yundola: 23.V.1982, 1♂, ST.

**Sphegina clunipes* (Fallén, 1816): Rila Mt. Rila valley, 24.VII.1983, 1♂, ST (Malaise trap) – Sandanski: Struma valley, 17.V.1982, ST, 3♂ 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 21.VII.1983, 2♂ 1♀, ST.

**Sphegina elegans* Schummel, 1843 (Bánkowska as *Sphegina kimakowicz* Strobl, 1897): Sandanski: Struma valley, 17.V.1982, ST, 1♂, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

**Sphegina latifrons* Egger, 1865: Bansko: Bansko National Park, 23.VII.1983, 2♂ 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 1♀, ST (Malaise trap).

**Sphegina verecunda* Collin, 1937: Batak: Batak dam, 24.V.1982, 1♂ 2♀, ST (Malaise trap) – Rila Mt. Rila valley, 24.VII.1983, 1♂ 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 21.VII.1983, 1♂, ST.

**Syrpitta pipiens* (Linnaeus, 1758): Batak: 24.V.1982, 2♂ 1♀, ST – Batak: Batak dam, 24.V.1982, 16♂ 4♀, ST – Delchevo: 13.V.1982, 1♂, ST – Gotse Delchev: 02.VI.1982, 3♂, LP; 01.VI.1982, 1♂, ST – Melnik: 11.VIII.1982, 2♂ 1♀, ÁD; 11.VIII.1982, 4♂ 1♀, ÁV – Pernik: 12.VII.1983, 6♂ 2♀, ST – Pirin, деревня Пирин: 21.V.1982, 3♂ 4♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 4♀, ST – Sandanski: Struma valley: 17.V.1982, 3♂ 2♀, ST – Satovcha: 29.V.1982, 3♂ 1♀, ST – Yundola: 23.V.1982, 1♂ 4♀, ST.

Syrphocheilosia claviventris (Strobl, 1909): Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap) – Sofia: Vitosha Mt., 21.VII.1983, 2♂ 1♀, ST – Yundola: 23.V.1982, 1♂ 4♀, ST.

Syrphus nitidifrons Becker, 1921: Rila Mt. Rila valley, 24.VII.1983, 2♂, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♀, ST.

**Syrphus ribesii* (Linnaeus, 1758): Batak: 24.V.1982, 1♂ 2♀, ST – Batak: Batak dam, 24.V.1982, 13♂ 7♀, ST – Gotse Delchev: 01.VI.1982, 2♂ 3♀, ST – Pazardzhik: 25.VII.1983, 5♂ 2♀, ST – Pernik: 12.VII.1983, 3♂ 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 9♂ 22♀, ST – 21.V.1982, 54♂ 91♀, ST – Pirin Mt., Rozhen: 18.V.1982, 4♂ 5♀, ST – Rila (деревня Рила): 02.VI.1982, 8♂ 21♀, ST – Satovcha: 28.V.1982, 3♂ 25♀, ST – Sofia: Vitosha Mt., 15.VIII.1982, 1♂, ÁD-ÁV – Yundola: 23.V.1982, 1♂ 15♀, ST.

Syrphus sexmaculatus (Zetterstedt, 1838): Pirin, деревня Пирин: 19.V.1982, 1♀, ST; 21.V.1982, 2♂, ST.

**Syrphus torvus* Osten-Sacken, 1875: Batak: Batak dam, 24.V.1982, 6♂ 2♀, ST – Gotse Delchev: 01.VI.1982, 1♂ 3♀, ST – Pernik: 12.VII.1983, 1♂ 2♀, ST – Pirin, деревня Пирин: 19.V.1982, 7♂ 14♀, ST; 21.V.1982, 14♂ 13♀, ST – Pirin Mt., Rozhen: 18.V.1982, 2♂ 5♀, ST – Rila (деревня Рила): 02.VI.1982, 5♂ 18♀, ST – Satovcha: 28.V.1982, 6♂ 11♀, ST – Yundola: 23.V.1982, 1♂ 5♀, ST.

**Syrphus vitripennis* Meigen, 1822: Delchevo: 31.V.1982, 1♀, ST – Gotse Delchev: 01.VI.1982, 2♀, ST – Kostenets: 25.VII.1983, 1♂ 3♀, ST – Pirin, деревня Пирин: 19.V.1982, 78♂ 95♀, ST; 21.V.1982, 69♂ 67♀, ST – Pirin Mt., Rozhen: 18.V.1982, 24♂ 12♀, ST – Rila (деревня Рила): 02.VI.1982, 3♂ 2♀, ST – Rozhen: 18.V.1982, 1♀, ST – Sandanski: Struma valley, 17.V.1982, ST, 1♂ 4♀, ST (Malaise trap) – Satovcha: 28.V.1982, 2♂ 4♀, ST – Sofia: Vitosha Mt., 03.VIII.1982, 1♂ 1♀, ÁD-ÁV; 18.VIII.1982, 1♂ 2♀, ÁD-ÁV – Vladaya: 22.VII.1983, 2♂ 5♀, ST – Yundola: 23.V.1982, 1♂ 1♀, ST.

Temnostoma bombylans (Fabricius, 1805): Sofia: Lake Boyana, 19.VII.1983, 1♂, ST.

Tropidia scita (Harris, 1780): Batak: Batak dam, 24.V.1982, 2♀, ST (Malaise trap) – Gotse Delchev: 02.VI.1982, 1♂ 1♀, LP.

**Volucella bombylans* (Linnaeus, 1758): Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap) – Sandanski: Struma valley, 17.V.1982, ST, 1♂ 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 2♂, ÁD; 03.VIII.1982, 1♀, ÁV.

Volucella inanis (Linnaeus, 1758): Batak: 24.V.1982, 2♀, LP – Pazardzhik: 25.VII.1983, 1♂ 1♀, ST – Rila Mt. Rila valley, 24.VII.1983, 1♂ 1♀, ST (Malaise trap) – Sandanski: 10.VII.1970, 1♀, AP – Sofia: Lake Boyana, 19-22.VII.1983, 1♂ 3♀, ST (Malaise trap).

**Volucella pellucens* (Linnaeus, 1758): Batak: 24.V.1982, 1♂ 2♀, LP – Batak: Batak dam, 24.V.1982, 2♂ 1♀, ST – Pirin Mt., Bansko National Park: 05.VIII.1982, 1♀, ÁV – Sandanski: Struma valley, 17.V.1982, ST, 1♂ 1♀, ST (Malaise trap) – Sofia: Lake Boyana, 19-22.VII.1983, 1♀, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 2♀, ÁV.

**Volucella zonaria* (Poda, 1761): Batak: Batak dam, 24.V.1982, 1♂, RI; 24.V.1982, 1♂ 3♀, ST – Melnik: 10.VIII.1982, 1♀, ÁV – Rodope Mt., 23.VII.1975, 1♂ 3♀, ÁU – Sandanski: Struma valley: 17.V.1982, 1♂ 3♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 1♂, ST (Malaise trap).

Xanthandrus comtus (Harris, 1780): Batak: Batak dam, 24.V.1982, 3♀, ST (Malaise trap) – Sofia: Vitosha Mt., 03.VIII.1982, 1♂ 1♀, ÁD-ÁV.

**Xanthogramma festivum* (Linnaeus, 1758): Pírin, деревня Пирин: 21.V.1982, 2♂ 1♀, ST – Yundola: 23.V.1982, 1♂, ST.

Xanthogramma pedissequum (Harris, 1776): Gotse Delchev: 02.VI.1982, 1♂, LP – Pernik: 12.VII.1983, 2♂, ST. Pírin, деревня Пирин: 19.V.1982, 2♂ 3♀, ST; 21.V.1982, 1♂ 2♀, ST – Rila (деревня Рила): 02.VI.1982, 1♂ 2♀, ST – Sandanski: Struma valley: 17.V.1982, 1♂ 1♀, ST.

**Xylota ignava* (Panzer, 1798): Bansko: Bansko National Park, 23.VII.1983, 1♂, ST (Malaise trap).

Xylota meigeniana Stackelberg, 1964: Rila Mt. Rila valley, 24.VII.1983, 1♂, ST (Malaise trap) – Satovcha: 29.V.1982, 1♂ 4♀, ST.

**Xylota segnis* (Linnaeus, 1758): Batak: Batak dam, 24.V.1982, 3♂ 1♀, ST; 24.V.1982, 2♂ 1♀, ST (Malaise trap) – Pírin, деревня Пирин: 21.V.1982, 2♂ 1♀, ST – Sofia: Lake Boyana, 19-22.VII.1983, 5♂ 1♀, ST (Malaise trap) – Yundola: 23.V.1982, 1♂, ST.

**Xylota sylvarum* (Linnaeus, 1758): Bistrítsa: 20.VII.1983, 1♀, ST – Delchevo: 30.V.1982, 2♂, ST (Malaise trap) – Sofia: Lake Boyana, 19.VII.1983, 1♂ 2♀, ST.

Xylota xanthocnema Collin, 1939: Pernik: 12.VII.1983, 1♂, ST – Rila Mt. Rila valley, 24.VII.1983, 1♀, ST (Malaise trap).

References

- BÁNKOWSKA, R. 1967: Matériaux pour des Syrphides (Diptera) de Bulgarie. – *Fragmenta Faunistica* 13: 345-389.
- BARKALOV, A. V. & STÄHLS, G. 1997: Revision of the Palaearctic bare-eyed and blacklegged species of the genus *Cheilosia* Meigen (Diptera, Syrphidae). – *Acta Entomologica Fennica* 208: 1-74.
- BARKEMEYER, W. & CLAUSSEN, C. 1986: Zur Identität von *Neosasia unifasciata* (Strobl, 1898) – mit einem Schlüssel für die in der Bundesrepublik Deutschland nachgewiesenen Arten der Gattung *Neosasia* Williston 1886 (Diptera, Syrphidae). – *Bonner zoologische Beiträge* 37 (3): 229-239.
- CLAUSSEN, C. 1998: Die europäischen *Cheilosia alpina*-Gruppe (Diptera: Syrphidae). – *Bonner zoologische Beiträge* 47: 381-410.
- DOCZKAL, D. & SCHMID, U. 1994: Drei neue Arten der Gattung *Epistrophe* (Diptera: Syrphidae), mit einem Bestimmungsschlüssel für die deutschen Arten. – *Stuttgarter Beiträge zur Naturkunde Serie A (Biologie)*: 1-32.
- HURKMANS, W. 1993: A monograph of *Merodon* (Diptera: Syrphidae). Part. 1. – *Tijdschrift voor Entomologie* 136: 147-234.
- KRPAČ, V. T., VUJIĆ, A., SMILJKA, Š., RADENKOVIĆ, S. & LAZAREVSKA, S. 2009: Revision of the genus *Platycheirus* Le Peletier & Serville, 1828 (Diptera: Syrphidae) in the fauna Macedonia. – *Kragujevac J. Sci.* 31: 109-114.
- MAIBACH, A., GOELDLIN DE TIEFENAU, P. & DIRICKX, H. G. 1998: Syrphidae. – In: Mertz, B. et al. (eds.): *Fauna Helvetica* 1, Diptera – Checklist, pp. 211-224.
- PECK, L. V. 1988: Family Syrphidae – In: Soós, Á. & PAPP, L. (eds.): *Catalogue of Palaearctic Diptera* 8: 11-230.
- SSYMANK, A., DOCZKAL, D., BARKEMEYER, W., CLAUSSEN, C., LÖHR, P. W. & SCHOLZ, A. 1999: Syrphidae. – In: SCHUMANN, H. et al. (eds.): *Checkliste der Dipteren Deutschlands*. – *Studia dipterologica Supplement* 2: 195-203.
- STACKELBERG, A. A. 1970: Classification to the insects of the European part USSR, Syrphidae – *Opređeliteli po Faune USSR* 5 (2): 11-96.
- STUBBS, A. E. & FALK, S. J. 1983: *British hoverflies an illustrated identification guide*. – *British Entomological & Natural History Society* 253. pp.
- VAN VEEN, M.P. 2004: *Hoverflies of Northwest Europe. Identification keys to the Syrphidae*. – KNNV Publishing, Utrecht, The Netherlands. pp. 254.

