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## HOVER-FLIES (DIPTERA, SYRPHIDAE) COLLECTED IN KURIL ISLANDS IN 1966

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The list of thirty-eight species of Syrphidae collected mainly in Middle and North Kuril Islands is given. *Cheilosia melanopa* and *Ch. illustrata magnifica* are newly recorded for the Kuril Islands. The hover-flies are firstly recorded for Shiashkotan, Kharimkotan and Onekotan. Four species are new for Iturup and five species for Paramushir.

KEY WORDS. Syrphidae, hover-flies, new records, Kuril Islands.

**В.А. Мутин. Мухи-сирфиды (Diptera, Syrphidae), собранные на Курильских островах в 1966 г. // Дальневосточный энтомолог. 1997. N 41. С. 1-4.**

Приводится список из 38 видов, собранных преимущественно на Средних и Северных Курильских островах. *Cheilosia melanopa* и *Ch. illustrata magnifica* указываются впервые для Курильских островов. Сирфиды впервые отмечены для островов Шиашкотан, Харимкотан и Онекотан. Четыре вида впервые указываются для Итурупа, пять видов - для Парамушира.

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## INTRODUCTION

According to Violovitsh (1960) 104 syrphid species occur in Kuril Islands. 138 species from 46 genera (without listing) were recorded by Krivolutskaja (1973). In our paper (Mutin & Barkalov, in litt.) 184 species of hover-flies are listing and occurrence of 18 recorded species is not confirmed. Most species are known for South Kuril Islands. The syrphid data from Middle and North Kuril Islands are scarce (15 species for Paramushir, 6 species for Shumshu - Mutin & Barkalov, in litt.). Material collected in these islands by A.S. Lelej and K.Yu. Es'kov, the participants of International Kuril Island Project, in 1996 enlarged the distribution data for many species. The hover-flies have been collected for short period (1-25.VIII), where mass flight of the most Kuril syrphid takes place.

### THE LIST OF SYRPHIDAE COLLECTED IN KURIL ISLANDS IN 1996

No	Species	KU (172)	IT (42)	UR (9)	SHI (0)	KH (0)	ON (0)	PA (15)	Range type
1	<i>Asiodidea nikkoensis</i> Mats.	-	3♂1♀	-	-	-	-	-	EA
2	<i>Episyrphus balteatus</i> De Geer	1♀	2♂	-	-	-	-	-	TP
3	<i>Dasyrphus</i> sp.	-	-	-	*1♀	-	-	-	FE
4	<i>Leucozona lucorum</i> L.	-	-	-	-	-	-	*1♀	H
5	<i>Eriozona (Megasyrphus) erratica</i> L.	-	-	-	*1♀	-	-	-	TP
6	<i>Melangyna arsenjevi</i> Mutin	-	4♂	-	*1♂4♀	-	-	-	TP
7	<i>Meliscaeva cinctella</i> Zett.	-	1♂1♀	3♀	-	-	-	-	H
8	<i>Parasyrphus tarsatus</i> Zett.	-	-	-	*1♀	-	*1♀	2♀	H
9	<i>Sphaerophoria philanthus</i> Meigen	-	*1♂	-	*1♂	*1♀	-	*4♂3♀	H
10	<i>Syrphus ribesii</i> L.	-	-	-	*1♀	-	*3♀	2♀	H
11	<i>S. torvus</i> Osten-Sacken	-	5♂4♀	-	*4♀	-	*3♂	-	H
12	<i>S. dubius</i> Mats.	-	*2♀	-	-	-	-	-	JK
13	<i>S. vitripennis</i> Meigen	-	1♂1♀	-	-	-	-	-	H
14	<i>Chrysotoxum biguttatum</i> Mats.	-	2♀	-	-	-	-	-	FE
15	<i>Melanostoma mellinum</i> L.	1♂2♀	1♀	-	*1♀	-	*8♀	1♀	H
16	<i>M. scalare</i> F.	-	-	-	*1♀	-	-	-	TP
17	<i>Pyrophaena rosarum</i> F.	1♀	-	-	-	-	-	-	TP
18	<i>Platycheirus clypeatus</i> Meigen	2♂	1♀	-	-	-	-	-	H
19	<i>P. urakawensis</i> Mats.	-	1♀	-	-	-	*7♀	3♀	H
20	<i>Platycheirus</i> sp. ( <i>clypeatus</i> groupe)	-	-	-	-	-	*1♀	-	?
21	<i>Cheilosia annulifemur</i> Stackelberg	-	1♀	-	-	-	-	-	S

No	Species	KU	IT	UR	SHI	KH	ON	PA	Range type
22	<i>Ch. illustrata magnifica</i> Hellen	-	-	-	-	-	-	*2♂5♀	KK
23	<i>Ch. impressa</i> Loew	-	-	-	-	-	-	*2♂4♀	TP
24	<i>Ch. longula</i> Zett.	-	-	-	*1♂1♀	-	-	-	TP
25	<i>Ch. josankeiana</i> Shiraki	1♀	-	-	-	-	-	-	FE
26	<i>Ch. longiptera</i> Shiraki	-	*1♀	-	-	-	-	-	JK
27	<i>Ch. melanopa</i> Zett.	-	-	-	-	*1♀	-	-	TP
28	<i>Ch. motodomariensis</i> Mats.	-	-	2♂8♀	-	-	-	-	S
29	<i>Ch. urakawensis</i> Shiraki	1♀	-	-	-	-	-	-	JK
30	<i>Volucella pellucens</i> L.	-	4♂1♀	-	-	-	-	-	TP
31	<i>Sphegina (Asiosphegina)</i> <i>freyana</i> Stackelberg	1♂	-	-	-	-	-	-	K(?)
32	<i>Sericomyia sachalinica</i> Stackelberg	1♀	1♀	1♀	-	-	-	-	JKS
33	<i>Helophilus lapponicus</i> Wahlberg	-	-	-	-	-	-	*1♂	TP
34	<i>H. pendulus</i> L.	-	-	-	-	*1♂	*1♀	1♂2♀	TP
35	<i>H. virgatus</i> Coquillett	-	1♂1♀	-	-	-	-	-	EA
36	<i>Matsumyia nigrofacies</i> Shiraki	2♀	5♂	-	-	-	-	-	JKS
37	<i>Xylota amamiensis</i> Shiraki	-	*1♂	-	-	-	-	-	EA
38	<i>Xylota sp.</i>	1♀	-	-	-	-	-	-	S
Total specimens		14	46	14	18	3	24	33	

**Notes. Islands:** KU - Kunashir, IT - Iturup, UR - Urup, SHI - Shiashkotan, KH - Kharimkotan, ON - Onekotan, PA - Paramushir; in the parentheses number of the species known before this work. Asterisk (\*) - new records. **Range type:** H - circumholarctic, TP - transpalaeartic, S - siberian (angarian), EA - east-asian (palaeartearctic), FE - manchurian-island, JKS - island (Japanese-Sakhalin-Kuril), JK - island (Japanese-Kuril), K - island (Kuril), KK - Kamtchatka-North Kuril (for *Cheilosia illustrata magnifica* only). *Dasysyrphus sp.* and *Xylota sp.* will be described in other papers.

## DISCUSSION

The list of species of Syrphidae consists of 38 species (21 % of species known from Kuril Islands) including one identified as *Platycheirus sp.* Two species (*Cheilosia melanopa* and *Ch. illustrata magnifica*) are newly recorded for the Kurils Islands.

The syrphid fauna of Kunashir Island is the best investigated and the richest (172 species - Mutin & Barkalov, in litt.). All ten species collected in Kunashir in 1996 were known already. Four species from 19, collected in 1996 in Iturup, are new to this island. Among 18 species collected in Middle and North Kuril Islands in 1996 only 5 species were known from Paramushir. The hover-flies not found in

the small volcanic island (Chirinkotan, Ekarma, Raikoke, Matua) in spite of that the same method was used for the collecting. The Far Eastern endemics are absent among the species distributed in Middle and North Kuril Islands, except little-known *Dasysyrphus* sp. which occurs in boreal biotops of Far Eastern mainland. Sixteen species have transpalaeartic and circumholarctic ranges, including *Cheilosia illustrata magnifica* distributed in Kamchatka also. Syrphid fauna of Middle and North Kuril Island likes Kamchatka one has the species unknown from south of Far Eastern mainland (*Helophilus pendulus*, *Cheilosia melanopa*, *Ch. illustrata*), or occur there in the mountains (*Parasyrphus tarsatus*, *Sphaerophoria philanthus* and *Helophilus lapponicus*).

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#### REFERENCES

- Violovitsh, N. A. 1960. A contribution to the knowledge of the hover-flies fauna (Diptera, Syrphidae) of Sakhalin and Kuril Isles. - Entomologicheskoye obozreniye 47: 217 - 272. (In Russian).
- Krivolutskaja, G.O. 1973. Entomofauna of the Kuril Islands. Principal features and origin. Leningrad: 315 pp. (In Russian).
- Mutin, V.A. & Barkalov, A.V. (in litt.) A revision of the hover-flies of Sakhalin province.

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