

## On the Estonian *Brevicornu* Marshall (Diptera, Mycetophilidae)

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Data on fourteen Estonian Mycetophilid species from the genus *Brevicornu* Marshall are presented, nine of them being new to Estonia: *B. (Brevicornu) beatum* (Joh.), *B. (B.) bellum* (Joh.), *B. (B.) foliatum* (Edw.), *B. (B.) fuscipenne* (Staeg.), *B. (B.) griseicolle* (Staeg.), *B. (B.) griseolum* (Zett.), *B. (B.) serenum* (Winn.), *B. (B.) sericoma* (Meig.) and *B. (Stigmatomeria) obscurum* (Winn.).

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### Introduction

*Brevicornu* Marshall, 1896 is a widely distributed genus of fungus gnats. There are 40 species of it recorded in the Palaearctic region (Lundström, 1912; Hackman, 1988; Zaitzev, 1985, 1988; Caspers, 1985; Zaitzev & Polevoi, 1995), five of them in Estonia (Dampf, 1924; Lackschewitz, 1937; Zaitzev, 1985). In this paper additional material on nine *Brevicornu* species is presented. Twenty ~~two~~ species are known in the neighbouring areas (see Table 1): 15 species in Finland (Hackman, 1980), 11 species in Latvia (Lackschewitz, 1937) and 12 species in Leningrad Province (Krivosheina et al., 1986; Zaitzev, 1988). Most Estonian species, except the *B. (Stigmatomeria) obscurum* (Winn.) and *B. (Brevicornu) foliatum* (Edw.), have also been recorded in the neighbouring areas.

The material for the present communication collected by sweep netting from 15 sites in Estonia (see Fig. 1). One specimen of *B. (B.) griseicolle* (Staeg.) and one specimen of *B. (B.) sericoma* (Meig.) K. Remm and K. Kimmel collected by light trap from Elva and Endla Nature Reserve. H. Remm collected one specimen of *B. (B.) ruficornis* (Meig.) from Reola near Tartu, but the method used is unknown.

The material deposited in the Institute of Zoology and Botany, Tartu, Estonia. Asterisks before the names

of Mycetophilids in the species list indicate new records to Estonia.

### List of species

\*1. *Brevicornu (B.) beatum* (Johannsen, 1911)

*Material.* 7 ♂, Nigula Nature Reserve, 24.V.1994, 04.VII.1994, 03.VI.1995.

\*2. *B. (B.) bellum* (Johannsen, 1911)

*Material.* 2 ♂, Virtsu, 30.VIII.1991; 1 ♂, Hargla, 08.VII.1994. Total 3 ♂.

3. *B. (B.) fissicauda* (Lundström, 1911)

Lackschewitz, 1937: 35; Zaitzev, 1985: 41.

*Material.* 1 ♂, Tiksoja, 09.V.1994; 1 ♂, Piiri, 01.VIII.1995. Total 2 ♂.

\*4. *B. (B.) foliatum* (Edwards, 1925)

The species has been previously recorded in Great Britain (Edwards, 1925; Kidd & Ackland, 1970), Germany (Landrock, 1940), Austria (Plassmann, 1984), Norway (Søli, 1994; Økland, 1995) and in

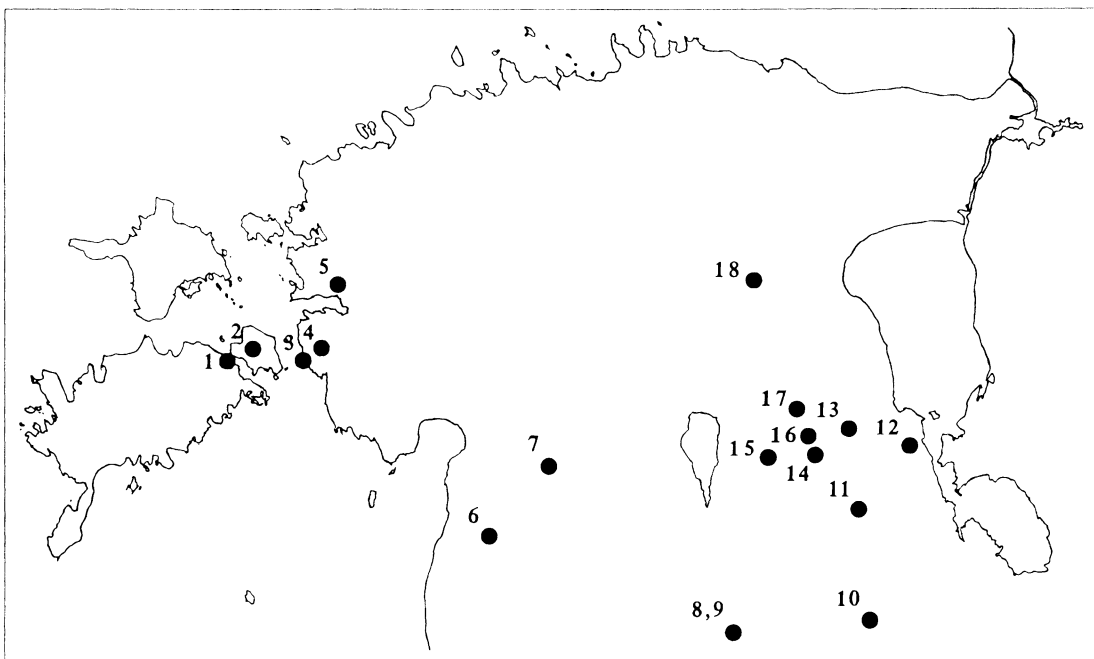


Fig. 1. Sampling sites.

1 – Orissaare on the Island of Saaremaa (1993), 2 – Piiri on the Island of Muhu (1995), 3 – Puhtu near Virtsu (1991), 4 – Virtsu 7 km Northeast (1991), 5 – Oonga Southeast of Haapsalu (1993, 1994, 1995), 6 – Nigula Nature Reserve (1990, 1991, 1992, 1993, 1994, 1995), 7 – Kanaküla Northeast of Kilingi-Nõmme (1995), 8 – Hargla Southeast of Valga (1994), 9 – Southwest coast of Lake Koobassaare Southeast of Valga (1994), 10 – Uue-Saaluse Southeast of Võru (1995), 11 – Taevaskoja North of Põlva (1994), 12 – Järvelja Experimental Forestry Enterprise Southeast of Tartu (1989), 13 – Melliste Southeast of Tartu (1995), 14 – Kambja South of Tartu (1995), 15 – Elva (1995), 16 – Reola near Tartu (1957), 17 – Tiksoja near Tartu (1994), 18 – Endla Nature Reserve (1995).

Russia: Altai (Zaitzev, 1988), Krasnoyarsk Territory and Tomsk Province (Ostroverhova, 1979).

*Material.* 1 ♂, Oonga, 04.X.1995.

1 ♂, Oonga, 25.V.1994; 1 ♂, Uue-Saaluse, 24.IX.1995. Total 3 ♂.

\*5. *B. (B.) fuscipenne* (Staeger, 1840)

*Material.* 1 ♂, Nigula Nature Reserve, 01.VIII.1990.

10. *B. (B.) ruficorne* (Meigen, 1838)

Dampf, 1924: 44 (*Allodia cinerea* Lundst.).

*Material.* 1 ♂, Reola, 03.V.1957, H. Remm leg.

\*6. *B. (B.) griseicolle* (Steager, 1840)

*Material.* 1 ♂, Järvelja, 15.IX.1989; 1 ♂, Oonga, 05.VI.1993; 1 ♂, Nigula Nature Reserve, 26.VIII.1995; 1 ♂, Elva, 03—08.VII.1995, K. Remm leg. Total 4 ♂.

\*11. *B. (B.) serenum* (Winnertz, 1863)

*Material.* 2 ♂, Nigula Nature Reserve, 23.VIII.1993, 23.V.1994; 1 ♂, Taevaskoja, 12.VI.1994. Total 3 ♂.

\*7. *B. (B.) griseolum* (Zetterstedt, 1852)

*Material.* 3 ♂, SW coast of Lake Koobassaare, 08.VII.1994.

\*12. *B. (B.) sericoma* (Meigen, 1830)

*Material.* 1 ♂, Järvelja, 23.VII.1989; 4 ♂, Nigula Nature Reserve, 22.VIII.1991, 15.V.1992, 26.VIII.1995; 1 ♂, Orissaare, 02.X.1993; 4 ♂, Oonga, 03.X.1995, 04.X.1995; 1 ♂, Piiri, 01.VIII.1995; 1 ♂, Kambja, 16.IX.1995; 1 ♂, Kanaküla, 14.IX.1995; 1 ♂, Endla Nature Reserve, 08—15.X.1995, K. Kimmel leg. Total 14 ♂.

8. *B. (B.) nigrofuscum* (Lundström, 1909)

Lackschewitz, 1937: 36.

*Material.* 1 ♂, Puhtu, 24.VIII.1991.

9. *B. (B.) proximum* (Staeger, 1840)

Lackschewitz, 1937: 35.

*Material.* 1 ♂, Nigula Nature Reserve, 22.VIII.1993;

13. *B. (Stigmatomeria) crassicornis* (Stannius, 1831)

Lackschewitz, 1937: 34 (*Allodia crassicornis* Staeg.).

*Material.* 1 ♂, Taevaskoja, 20.V.1995; 1 ♂, Melliste, 25.IV.1995. Total 2 ♂.

**Table 1.** The species of *Brevicornu* Marshall in Estonia and in neighbouring areas.

Fin. — Finland, Est. — Estonia, Lat. — Latvia, Len. — Leningrad Province. 0 — original data, 1 — Hackman, 1980, 2 — Lackschewitz, 1937, 3 — Dampf, 1924, 4 — Zaitzev, 1985, 5 — Zaitzev, 1988, 6 — Krivosheina et al., 1986.

Species	Fin.	Est.	Lat.	Len.
subg. <i>Brevicornu</i>				
<i>auriculatum</i> (Edw.)	—	—	2	—
<i>beatum</i> (Joh.)	—	0	—	5.6
<i>bellum</i> (Joh.)	—	0	—	5.6
<i>bipartitum</i> Lašt et Mat	—	—	—	5.6
<i>boreale</i> (Lundst.)	1	—	—	5.6
<i>fasciculatum</i> (Lacksch.)	—	—	2	6
<i>fennicum</i> (Landr.)	1	—	2	—
<i>foliatum</i> (Edw.)	—	0	—	—
<i>fissicauda</i> (Lundst.)	1	0,2,4	2	—
<i>fuscipenne</i> (Staeg.)	1	0	2	—
<i>griseicolle</i> (Staeg.)	1	0	2	6
<i>griseolum</i> (Zett.)	1	0	—	6
<i>kingi</i> (Edw.)	1	—	2	—
<i>luteum</i> (Landr.)	1	—	—	—
<i>nigrofuscum</i> (Lundst.)	1	0,2	—	—
<i>penicillatum</i> (Lundst.)	1	—	2	—
<i>proximum</i> (Staeg.)	1	0,2	2	6
<i>ruficornis</i> (Meig.)	1	0,3	—	6
<i>serenum</i> (Winn.)	1	0	—	6
<i>sericoma</i> (Meig.)	1	0	2	6
subg. <i>Stigmatomeria</i>				
<i>crassicornis</i> (Stann.)	1	0,2	2	6
<i>obscurum</i> (Winn.)	—	0	—	—
Total	15	14	11	12

#### \*14. *B. (S.) obscurum* (Winnertz, 1863)

The species has been previously recorded in Austria, Czechoslovakia, Germany, Netherlands, Poland, Sweden and in Russia, West Siberia (Hackman, 1988).

*Material.* 2 ♂, Oonga, 25.V.1994, 26.V.199.; 1 ♂, Nigula Nature Reserve, 01.VII.1994; 1 ♂, Tiksoja, 26.VII.1994. Total 4 ♂.

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