

Remarks on the Ural spider fauna, 5. New records of spider species of the family Linyphiidae from the Urals (Arachnida Aranei)

Заметки по фауне пауков Урала, 5. Новые находки пауков семейства Linyphiidae на Урале (Arachnida Aranei)

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KEY WORDS: spiders, fauna, faunistics, Urals.

КЛЮЧЕВЫЕ СЛОВА: пауки, фауна, фаунистика, Урал.

ABSTRACT. A check-list and new records of 160 linyphiid spider species collected in 19 localities in the Urals are given. Altogether 18 species have been recorded in the Urals for the first time, among which *Agyneta decora* (Jackson, 1914), *A. innotabilis* (O. P.-Cambridge, 1863), *A. ressli* (Wunderlich, 1973), *Bathyphantes similis* Kulczyński, 1894, *Centromerus persimilis* (O. P.-Cambridge, 1912) and *Peponocranium orbiculatum* (O. P.-Cambridge, 1882) are new to the Russian list. Some misidentifications in the previously published Ural lists have been corrected. A few little-known species are supplied with new illustrations.

РЕЗЮМЕ. Приведен список новых находок 160 видов пауков из 19 точек Урала. Всего для Урала впервые отмечается 18 видов, среди которых *Agyneta decora* (Jackson, 1914), *A. innotabilis* (O. P.-Cambridge, 1863), *A. ressli* (Wunderlich, 1973), *Bathyphantes similis* Kulczyński, 1894, *Centromerus persimilis* (O. P.-Cambridge, 1912) и *Peponocranium orbiculatum* (O. P.-Cambridge, 1882) – новые для фауны России. Исправлен ряд ошибочных видовых определений, содержащихся в ранее опубликованных фаунистических списках по Уралу. Для некоторых малоизвестных видов приведены новые рисунки.

I. Introduction

The first records of linyphiid spiders from the Urals (6 species) belong to Grese [1909]. Although a number of faunistic/taxonomic papers from that region have since been published, there are only two papers [Azheganova, 1974; Pakhorukov, 1981] specially devoted to the linyphiid spider fauna of the Urals. Up to now, almost 300 species of Linyphiidae have been known from that region.

New materials collected over the last decade in a number of localities in the Urals contain numerous species, including several little-known ones. To sum up all original data on linyphiid spiders of the Urals,

is the main goal of this work. Here we put on record material of 160 species, six of them being new to the fauna of Russia and 18 to the Ural list. This work is intended to complete our previous contribution that dealt with all Ural spiders but Linyphiidae [Esyunin & Efimik, 1995]. For the sake of proper reference, the first author's name formerly spelt either Esjunin or Esyunin will be referred to only as Esyunin.

II. Material

Besides the authors' collections, abbreviated in the text as (SE), (VE) and (ABP), respectively, this paper is based on materials taken by: A. Alikin (AA), A.P. Batalin (APB), P. Durmanov (PD), T.I. Gridina (TIGr), V.O. Kozminikh (VOK), T. Lokteyeva (TL) and V.G. Novokshenov (VGN) (all – Perm), Y.I. Korobeinikov (YIK), A.Y. Malozemov (AYM) and V.N. Olshvang (VNO) (all – Ekaterinburg, formerly Sverdlovsk), and N.L. Ukhova (NLU) (Visim Reserve). Although almost all materials derive from the very same 19 localities reported in our previous contribution [Esyunin & Efimik, 1995], we feel it necessary to repeat their list here as well.

The materials belong to the collection of the Department of Zoology of the Perm State University.

In the material sections, "f" stands for the female, "m" for the male.

III. List of localities

Polar Urals:

1. Khadyta-Yakha River – southern Yamal Peninsula.

Cispolar Urals:

2. Neroika Mountain – Tyumen Area, Berezovo Distr.

Middle Urals:

3. Baseghi Range – Perm Area, Gornozavodsk Distr.

4. Chermoz Town – Perm Area.

5. Perm City; environs of Perm City; Verkh-

nyaya Kurya village; Dolgoe Lake and right bank of Kama River – Perm Area, Perm Distr.

6. Kachka village – Perm Area, Perm Distr.

7. Iryak village – Perm Area, Osinsk Distr.

8. Spasskaya Gora – a protected landscape in Kungur Distr., Perm Area.

9. "Preduralie" Reserve – Perm Area, Kishert Distr.

10. Sarashi village – Perm Area, Barda Distr.

11. Visim Reserve and Belya Mountain of the Veselye Gorki Range – Ekaterinburg Area, Prigorodnyi Distr.

South Urals:

12. Ilmenskii Reserve – Chelyabinsk Area, near Town Miass.

13. Nurgush Range, Tygynskoe Bog and Iremel Mountain – at the border between the Satka Distr. of the Chelyabinsk Area and the Beloretsk Distr. of Bashkiria.

14. Syrtlanovo village – Bashkiria, Meleuz Distr.

15. Shulgan-Tash Reserve – Bashkiria, Burzian Distr.

16. Bashkirian Reserve – Bashkiria, Burzian Distr.

17. Kananikolskoe village – Bashkiria, Zilair Distr.

18. Bekeshevo village – Bashkiria, Baimak Distr.

19. Troitskii Reserve – Chelyabinsk Area, Troitsk Distr.

In the text, each locality is followed by the respective number put in square brackets ([]) and referring to the number in the list as well as in Fig. 1.

IV. Misidentifications

The following previous misidentifications of Ural linyphiids must be corrected as based on a restudy of pertinent material.

1. Due to a typographical error, the literature record of *Abacoproeces saltuum* (C.L. Koch, 1872), by Pakhorukov & Efimik [1988] misleadingly belonged to "Bashkiria" instead of Satka Distr., Chelyabinsk Area.

2. The record of *Meioneta beata* (O. P.-Cambridge, 1906), by Pakhorukov [1985] should be referred to *Agyneta ressli* (Wunderlich, 1973).

3. The record of *Agyneta cauta* (O. P.-Cambridge, 1902), in the Ilmenskii Reserve by Polyanin & Pakhorukov [1988] should be attributed to *A. ramosa* Jackson, 1914.

4. The record of *Agyneta decora* (Jackson, 1914), by Pakhorukov & Efimik [1988] should be referred to *A. conigera* (O. P.-Cambridge, 1863).

5. The record of *Agyneta decora* (Jackson, 1914), in the Ilmenskii Reserve by Polyanin & Pakhorukov [1988] should be attributed to *A. ramosa* Jackson, 1914.

6. The record of *Meioneta gulosa* (L. Koch, 1869), in the Ilmenskii Reserve by Polyanin & Pakhorukov [1988] is applied in fact to *Agyneta ramosa* Jackson, 1914.

7. The record of *Meioneta rurestris* (C.L. Koch, 1836), in the Troitskii Reserve by Utochkin & Golovashkina [1977], as well as by Pakhorukov [Pakhorukov, 1985; Pakhorukov et al., 1983] is actually applied to *Agyneta ressli* (Wunderlich, 1973).

8. The record of *Centromerus sellarius* (Simon, 1884), in the Pechoro-Ilychskii Reserve by Utoch-

kin & Pakhorukov [1976] is applied in fact to *C. incilium* (L. Koch, 1881).

9. The record of *Glyphesis cottonae* (La Touche, 1946), in Bashkiria by Pakhorukov & Efimik [1988] is attributed in reality to *Diplocephalus connatus* Bertkau, 1889.

10. The record of *Leptyphantes keyserlingi* (Ausser, 1867), in the Perm Area by Esyunin & Kozminykh [1992] is applied in fact to *L. quadrimaculatus* Kulczyński, 1898. n

11. The record of *Stemonyphantes conspersus* (L. Koch, 1879), in the Ilmenskii Reserve by Polyanin & Pakhorukov [1988] should be referred to *S. lineatus* (Linnaeus, 1758).

12. The previous records of *Zornella cultrigera* (L. Koch, 1879), in the Ilmenskii Reserve [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988] are applied in fact to *Trematocephalus cristatus* (Wider, 1834).

V. Check-list of Ural linyphiid spiders

Abacoproeces saltuum (L. Koch, 1872)

MATERIAL. Middle Urals: 1m, 1f, environs of Perm City [5], *Pinus* forest, pitfall traps, 2.V-18.VI.1989, leg. SE; 1f, Spasskaya Gora [8], steppe *Betula* forest, 12.VII.1990, leg. VOK; 3f, Preduralie [9], 1982, coll. ?

CATALOGUE. Middle Urals: Sarashi [10] [Esyunin et al., 1993; Eskov, 1994]. South Urals: Chelyabinsk Area [Pakhorukov, 1985; Pakhorukov & Efimik, 1988; Esyunin & Pakhorukov, 1992; Eskov, 1994].

Agyneta (Aprolagus) beata (O. P.-Cambridge, 1906)

MATERIAL. Middle Urals: 1m, Dolgoe [5], multiherbaceous meadow, pitfall traps, 4-15.VI.1993, leg. VOK; 27m, 2f, environs of Perm City [5], meadow of *Calanagrostis* and other herbs, pitfall traps, 17.V-7.VII.1987, leg. SE; 13m, 3f, V. Kurya [5], *Pinus* forest, pitfall traps, 21.V-30.VI.1990-1991, leg. VOK; 8m, 12f, Spasskaya Gora [8], steppe of *Stipa* and other herbs, pitfall traps, 21.V-31.VII.1988-1989, leg. VOK; 1m, 9f, Visimskii [11], multiherbaceous meadow, 25.VI.1993, leg. TL. South Urals: 1m, Ilmenskii [12], 24.VI.1991, coll. ?

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; *Meioneta*; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

REMARKS. The record of this species in the South Urals by Pakhorukov [1985] is erroneous [Esyunin & Pakhorukov, 1992] and is applied in reality to *A. ressli* (Wunderlich, 1973).

Agyneta (Agyneta) conigera (O. P.-Cambridge, 1863)

MATERIAL. Middle Urals: 1m, Visimskii [11], *Betula-Picea* forest, herbage, 25.VI.1993, leg. TL. South Urals: 1m, 1f, Iremel [13], *Picea* forest, 1.VI.1989, leg. ABP.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova et al., 1976; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; *A. conigera + A. decora*], Chelyabinsk Area [Polyanin & Pakhorukov, 1988].

Agyneta (Agyneta) decora (O. P.-Cambridge, 1871)

MATERIAL. Middle Urals: 1m, 1f, Baseghi [3], *Sphagnum* bog, 24.VII.1985, leg. SE. South Urals: 1m, 1f,

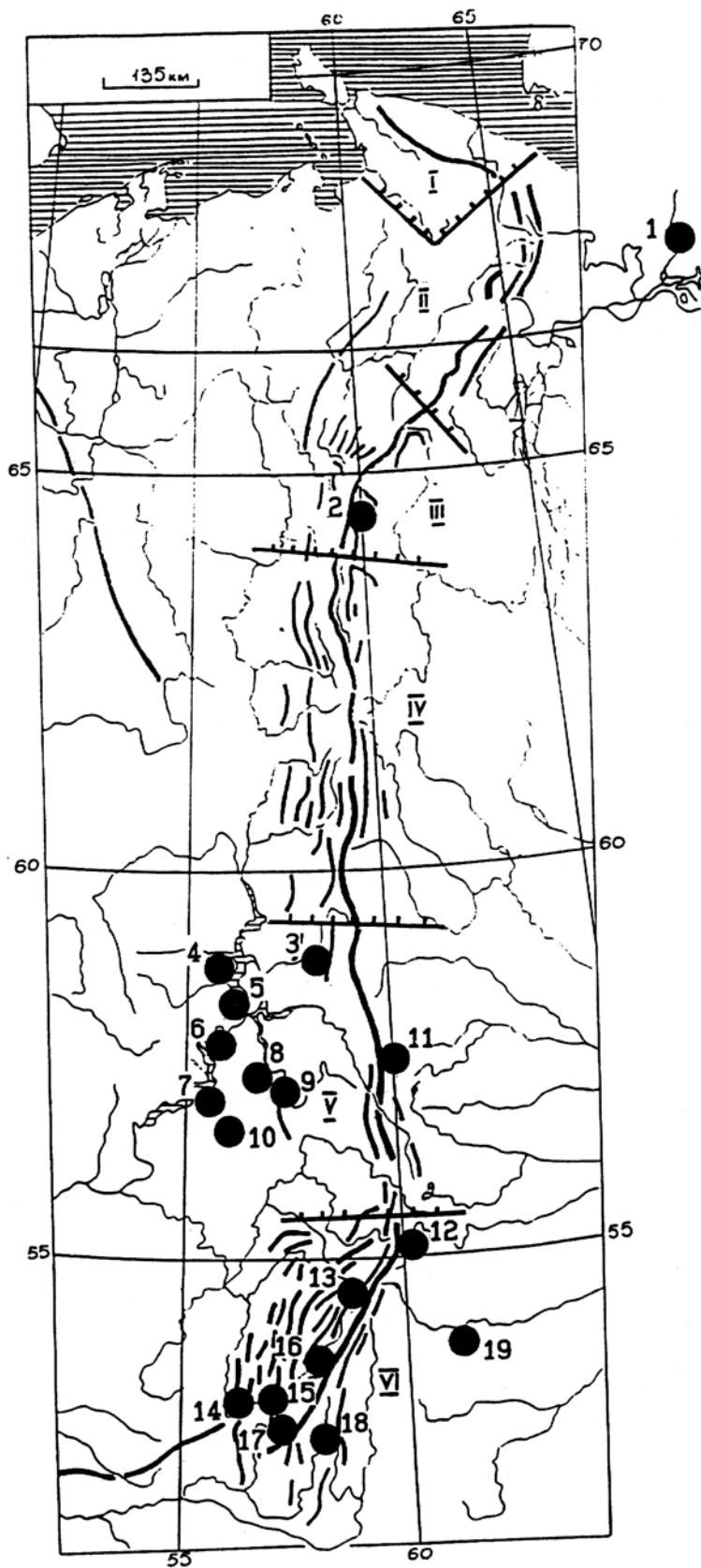


Fig. 1. Spider encounters (explanations in the text) and the geographical regioning of the Urals. Regions: I — Pay-Khoy; II — Polar Urals; III — Cispolar Urals; IV — North Urals; V — Middle Urals; VI — South Urals [Tchikishev, 1966].

Рис. 1. Места находок пауков (пояснения в тексте) и географическое районирование Урала. Районы: I — Пай-Хой; II — Полярный Урал; III — Приполлярный Урал; IV — Северный Урал; V — Средний Урал; VI — Южный Урал [Чикишев, 1966].

Tygynskoe [13], *Sphagnum*, pitfall traps, 20.VI-28.VII.1993, leg. AA.

REMARKS. New to the Russian fauna! The previous records of this European species in the South Urals [Pakhorukov & Efimik, 1988; Polyanin & Pakhorukov, 1988; Eskov, 1994] are erroneous.

Agyneta (Meioneta) fuscipalpis (C.L. Koch, 1836)

MATERIAL. Middle Urals: 6m, V. Kurya [5], sandy plots, pitfall traps, 3-30.V.1993, leg. VOK. South Urals: Chelyabinsk Area, Uz River [near 19], steppe, under stone, 8.VII.1994, leg. SE.

REMARKS. This is the first record of this species in the Urals. This species has a Mediterranean distribution pattern [Tanasevitch, 1990].

Agyneta (Syedrula) innotabilis (O. P.-Cambridge, 1863)

MATERIAL. South Urals: 1f, Shulgan-Tash [15], *Populus tremula* forest, 12.VII.1989, leg. VE.

REMARKS. New to the Russian fauna! This is the easternmost record of this species hitherto believed to be subatlantic in the east: Estonia [Vilbaste, 1987], Lithuania [Zhukauskene, 1966] and Byelorussia [Zhukovets, 1989].

Agyneta (Aprolagus) levii Tanasevitch, 1984

MATERIAL. Polar Urals: 3m, 10f, Khadyta-Yakha [1], lowland grassy meadow, litter, 6.VII.1982, leg. SE.

REMARKS. New to the Urals. This species was originally described from Yenisei River [Tanasevitch, 1984], and later it was repeatedly recorded in Tuva [Eskov, 1992b] and Yakutia, Siberia [Marusik et al., 1993].

Agyneta (Aprolagus) mollis (O. P.-Cambridge, 1871)

MATERIAL. Cispolar Urals: 9m, Neroika [2], montane meadow, pitfall traps, 15.VI-10.VII.1989, leg. YIK & AYM. Middle Urals: 1m, Dolgoe [5], meadow bog, pitfall traps, 1-31.V.1992, leg. VOK; 2f, Kachka [6], cultivated meadow, 25.V.1987, leg. ABP; 2m, Spasskaya Gora [8], floodland meadow, 21.V.1988, leg. SE.

CATALOGUE. Polar Urals: Shchuchya River, Sapkey [Eskov, 1986a, 1988a, 1994]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; *Meioneta*; Eskov, 1994]. Middle Urals: mountainous region [Eyunin, 1991; Eskov, 1994].

Agyneta (Agyneta) ramosa Jackson, 1914

MATERIAL. Middle Urals: 6m, Spasskaya Gora [8], steppe *Pinus* forest, 17-20.VI.1990, leg. VOK. South Urals: 1m, Ilmenskii [12], *Pinus* forest with *Vaccinium vitis-idaea* and mosses, 21.VI.1986, leg. & det. ABP (as *Meioneta gulosa*); 1f, same locality and habitat, date ?, leg. & det. ABP (as *A. decora*); 2f, same locality and habitat, 2.VII.1986, leg. & det. ABP (as *A. cauta*); 1f, same locality, *Pinus* forest with *Pteridium aquilinum*, 11.VII.1986, leg. & det. ABP (as *A. cauta*); 2m, same locality, *Pinus* forest with *Vaccinium myrtillus*, 29.V.1986, coll. ?

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. South Urals: Chelyabinsk Area [Polyanin & Pakhorukov, 1988; *A. cauta* + *A. decora* + *Meioneta gulosa*].

Agyneta (Meioneta) ressli (Wunderlich, 1973)

MATERIAL. South Urals: 1m, 2f, Ilmenskii [12], dry meadow, 7.VI.1991, coll. ?; 1m, Shulgan-Tash [15], *Betula* forest, 15.VIII.1986, leg. VE; 11m, 20f, Troitskii [19], steppe of *Stipa* and other herbs, 11.VI-8.VII.1984-

1986, leg. Ryabinina, Ryabikova & Polyanina, det. N.M. Pakhorukov (as *Meioneta beata* & *M. rurestris*).

REMARKS. New to the Russian fauna! The records of *Meineta beata* (O. P.-Cambr.) [Pakhorukov, 1985], *M. rurestris* (C.L. Koch) [Utochkin & Golovashkina, 1977; Pakhorukov et al., 1983; Pakhorukov, 1985], and *Agyneta* sp. 1 [Eyunin & Pakhorukov, 1992] are referred in fact to *A. ressli*. This species has been recorded earlier from the Alps, Turkmenistan [Tanasevitch & Fet, 1986] and the Caucasus [Tanasevitch, 1986].

Agyneta (Aprolagus) ripariensis Tanasevitch, 1984

MATERIAL. Cispolar Urals: 2m, Neroika [2], 950 m alt., herbaceous-mossy tundra, 23.VI-19.VII.1990, leg. YIK & AYM.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1984a, 1985; Eskov, 1988a; Eskov, 1994].

Agyneta (Meioneta) rurestris (C.L. Koch, 1836)

MATERIAL. Polar Urals: 1m, 1f, Khadyta-Yakha [1], damp mossy depression in tundra, 3-16.VII.1981, leg. SE. Cispolar Urals: 3m, 2f, Neroika [2], stony tundra, 20-25.VI.1989, leg. YIK & AYM. Middle Urals: 1f, Visimskii [11], 1985, leg. NLU.

CATALOGUE. North Urals: Komi Republic [Pakhorukov, 1980; *Meioneta*; Eskov, 1994]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova, 1974; *M. rupestrис*; Azheganova & Glukhov, 1981; *M.*], mountainous region [Eyunin, 1991; Gridina, 1992]. South Urals [Eskov, 1994]: Orenburg Area [Kuznetsov & Koblova, 1977; *M.*; Kuznetsov, 1988; *M.*], Bashkiria [Pakhorukov & Efimik, 1988; *M.*; Eyunin et al., 1992], mountainous region [Eyunin & Polyanin, 1990], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; *M.*; Polyanin & Pakhorukov, 1988; *M.*; Polyanin & Lagunov, 1992; *M.*].

REMARKS. The records of this species in forest-steppe Transuarlia [Utochkin & Golovashkina, 1977; Pakhorukov et al., 1983; Pakhorukov, 1985] are erroneous [Eyunin & Pakhorukov, 1992].

Agyneta (Agyneta) subtilis (O. P.-Cambridge, 1863)

MATERIAL. Polar Urals: 1m, 3f, Khadyta-Yakha [1], floodland meadow and *Betula* forest, litter, 3-21.VII.1982, leg. SE. Middle Urals: 1m, 2f, Visimskii [11], 1989, leg. NLU. South Urals: 4f, Iremel [13], 20.VI.1987, leg. VNO.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Utochkin, Pakhorukov, 1976], Ekaterinburg Area [Pakhorukov, 1977, 1984]. Middle Urals [Eskov, 1994]: Perm Area [Kharitonov, 1931; *Anomalara*; Gridina, 1992; Eyunin et al., 1993], mountainous region [Eyunin, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; Eyunin et al., 1993], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Polyanin & Lagunov, 1992].

Allomengea vidua (L. Koch, 1879)

MATERIAL. Middle Urals: 5m, Perm City [5], recreation park, *Picea* forest with *Tilia*, pitfall traps, 9.IX-8.X.1988, leg. VOK; 4m, 1f, Preduralie [9], *Salix* at river bank, 16-26.VIII.1990, leg. TIGr.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; *A. warburtoni*, 1981; Eskov, 1994].

Asthengargus paganus (Simon, 1884)

MATERIAL. Polar Urals: 1f, Khadyta-Yakha [1], wet *Carex* meadow, 22.VII.1981, leg. SE. Middle Urals: 8m, 9f, Visimskii [11], mixed forest, VI-IX.1989-1990, leg. NLU.

CATALOGUE. North Urals: Komi Republic [Pakho-

rukov, 1979; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Araeoncus crassiceps (Westring, 1861)

MATERIAL. Middle Urals: 26m, 2f, Dolgoe [5], meadow bog, pitfall traps, 31.V-28.VI.1992, leg. VOK; 6m, 1f, right bank of Kama River [5], wet meadow, 19-21.V.1991, leg. VOK; 2f, Preduralie [9], small-leaved forest, 18.VI.1985, leg. O.A. Sursyakova. South Urals: 2m, 3f, Uly River [19], gravelly river bank, 4-14.VI.1992-1993, leg. PD & VGN.

REMARKS. New to the Urals. This species displays a Euro-Siberian distribution pattern [Eskov, 1994].

Araeoncus humilis (Blackwall, 1841)

MATERIAL. Middle Urals: 5m, environs of Perm City [5], Cerasus shrub on S slope, meadow of *Calamagrostis*, etc., pitfall traps, 7-30.X.1987-1988, leg. SE; 1m, Dolgoe [5], meadow bog, pitfall traps, 22.VIII-16.X.1993, leg. VOK; 36m, 4f, V. Kurya [5], sandy plots, pitfall traps, 1.X.1989-21.IV.1990, leg. VOK; 1m, right bank of Kama River [5], wet meadow, herbage, 30.V.1993, leg. SE, VE & VOK; 5m, 6f, Kachka [6], cultivated meadow, pitfall traps, VIII.1986-14.VI.1987, leg. APB; 12m, 7f, Spasskaya Gora [8], steppe plots, pitfall traps, 23.X.1988-27.V.1989, leg. VOK.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

REMARKS. The western macroslope of the Urals seems to be the eastern border of the range of this species. The record of *A. humilis* in the southern Kurile Islands [Peele & Saito, 1932] is erroneous [Eskov, 1992a].

Araeoncus vorkutensis Tanasevitch, 1984

MATERIAL. Cispolar Urals: 1m, Neroika [2], talus (Siberian term "kurumy"), 22.VIII.1988, leg. AYM. South Urals: 1m, Shulgash-Tash [15], mixed forest, 14.VIII.1985, leg. VE.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1984b, 1985; Eskov, 1988a; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Bathyphantes parvulus (Westring, 1851)

MATERIAL. Middle Urals: 1f, Preduralie [9], coniferous forest, 22.VI.1988, leg. TIGr. South Urals: 2m, Ilmenskii [12], meadow, 9.VI.1987 and 16.VII.1991, coll. ?

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Bathyphantes setiger (O. P.-Cambridge, 1894)

MATERIAL. Polar Urals: 2m, Khadyta-Yakha [1], sandy river bank, alluvium, 15.VII.1981, leg. SE.

CATALOGUE. Middle Urals [Eskov, 1994]: Perm Area [Azheganova et al., 1976; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991]. South Urals: Chelyabinsk Area [Esyunin & Pakhorukov, 1992; Eskov, 1994].

Bathyphantes similis Kulczyński, 1894

MATERIAL. Polar Urals: 2m, 4f, Khadyta-Yakha [1], floodland meadow, disturbed ground with *Artemisia*, 25.VI-3.VIII.1981, leg. SE. Middle Urals: 1m, 3f, Dolgoe [5], meadow bog, pitfall traps, 1.V-21.IX.1991, leg. VOK; 1f, same locality, multiherbaceous meadow, pitfall traps, 1-22.VIII.1993, leg. VOK.

REMARKS. New to the Russian fauna! This species has hitherto been known from Europe only [Holm, 1987; Thaler, 1983].

Bolyphantes alticeps (Sundevall, 1832)

MATERIAL. Cispolar Urals: 2m, 4f, Neroika [2], meadow, dwarf *Betula* stand, 4-22.VIII.1988, leg. YIK &

AYM. Middle Urals: 2m, 1f, Visimskii [11], *Betula-Picea* forest, IX.1990, leg. NLU. South Urals: 1f, Tyulyuk [13], *Pinus* forest, 3.IX.1993, leg. VE.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Vasilevitch & Pakhorukov, 1975; Utochkin & Pakhorukov, 1976], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals [Eskov, 1994]: Perm Area [Kharitonov & Berezneva, 1970; Azheganova, 1974; Azheganova & Glukhov, 1981; Gridina, 1992], mountainous region [Esyunin, 1990, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; Esyunin et al., 1993], Chelyabinsk Area [Azheganova, 1951, 1968; Utochkin & Golovashkina, 1977; Pakhorukov et al., 1983; Pakhorukov, 1985; Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988, 1992; Esyunin & Pakhorukov, 1992].

Bolyphantes crucifer (Menge, 1866)

MATERIAL. Middle Urals: 2m, environs of Perm City [5], Cerasus shrub on S slope, 2-10.V.1987, leg. SE; 3f, same locality, 19.IX.1987 and 9.V.1989, leg. SE; 1f, Kachka [6], *Betula* forest, 24.V.1994, leg. SE; 3m, 3f, Iryak [7], *Pinus* forest, herbage, 12.IX.1986, leg. SE; 1f, Spasskaya Gora [8], *Tilia-Betula* forest, sweeping on vegetation, 19.IX.1987, leg. SE; 6m, 9f, Preduralie [9], limestone denudation, 14.VI.1985, leg. O.A. Sursyakova.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Vasilevitch & Pakhorukov, 1975; Utochkin & Pakhorukov, 1976], Ekaterinburg Area [Pakhorukov, 1977]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Polyanin & Pakhorukov, 1988; Pakhorukov, 1989; Esyunin & Pakhorukov, 1992].

Bolyphantes index (Thorell, 1856)

MATERIAL. Polar Urals: 2f, Khadyta-Yakha [1], dwarf *Betula* stand and floodland *Betula* forest, 26.VI-21.VII.1982, leg. SE. South Urals: 1m, Iremel [13], montane tundra, sweeping on vegetation, 23.VII.1986, leg. VNO.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals [Eskov, 1994]: Komi Republic [Vasilevitch & Pakhorukov, 1975; Utochkin & Pakhorukov, 1976], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Centromerita bicolor (Blackwall, 1833)

MATERIAL. South Urals: 1m, 1f, near Tyulyuk [13], edge of *Pinus* forest, 3.IX.1993, leg. VE.

CATALOGUE. Middle Urals: Perm Area [Azheganova, 1974; Azheganova & Glukhov, 1981; Eskov, 1994].

Centromerita concinna (Thorell, 1875)

MATERIAL. Middle Urals: 1f, Visimskii [11], *Betula-Picea* forest, 25.VI.1993, leg. TL. South Urals: 1f, Shulgash-Tash [15], broadleaved forest, litter, 21.VII.1989, leg. VE; 1m, Tyulyuk [13], bank of Karagaika River, 3.IX.1993, leg. VE.

CATALOGUE. Middle Urals [Eskov, 1994]: Perm Area [Azheganova, 1974; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991].

Centromerus arcanus (O. P.-Cambridge, 1873)

MATERIAL. Cispolar Urals: 2m, 1f, Neroika [2], talus ("kurumy"), pitfall traps, 18.VI-22.VIII.1988, leg. YIK & AYM. Middle Urals: 2m, Perm City [5], recreation park, *Betula* forest, 6-15.VI.1994, leg. SE; 1f, Preduralie [9], *Tilia* forest, litter, 27.VI.1990, leg. TIGr; 9m, 7f, Visimskii [11], *Betula* & *Picea* forests, litter, VI-IX.1990, leg. NLU.

CATALOGUE. North Urals [Eskov, 1994]: Ekaterinburg Area [Pakhorukov, 1977, 1984; Eskov &

Marusik, 1992b]. Middle Urals: mountainous region [Esyunin, 1991; Eskov & Marusik, 1992b; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], mountainous region [Esyunin & Polyanin, 1990].

Centromerus clarus (L. Koch, 1879)

MATERIAL. Middle Urals: 3m, 7f, environs of Perm City [5], forest of *Pinus* with green mosses, litter, 22.IX-30.X.1988, leg. SE; 1m, Kachka [6], *Betula* forest, 24.V.1994, leg. SE; 2m, 1f, Spasskaya Gora [8], steppe *Pinus* forest, pitfall traps, 13.V-17.VI.1989, leg. VOK; 8m, 24f, Preduralie [9], *Betula-Tilia*, *Pinus* & *Picea* forests, litter, 20.V-17.IX.1987-1988, leg. TIGr; 1m, 2f, Visimskii [11], *Betula-Pinus* forest, VI.1990, leg. NLU. South Urals: 1m, 1f, Syrtlanovo [14], broadleaved forest, moss, 17.VIII.1990, leg. VE; 2f, Shulgantash [15], *Acer-Tilia* forest, 27.VII.1989, leg. VE; 1f, Bashkirian [16], *Pinus* forest with green mosses, 15.VII.1988, leg. VE; 1f, Bekeshevo [18], *Betula* forest, 1.VIII.1987, leg. VE.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov & Marusik, 1992b; Eskov, 1994]. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov & Utochkin, 1977; *C. jacksoni*; Pakhorukov, 1981; Eskov & Marusik, 1992b], Ekaterinburg Area [Pakhorukov, 1988]. South Urals [Eskov, 1994]: mountainous region [Esyunin & Polyanin, 1990], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Eskov & Marusik, 1992b].

Centromerus incilium (L. Koch, 1881)

Centromerus sellarius (non Simon): Utochkin & Pakhorukov, 1976: 79, fig. 4 (♀).

MATERIAL. Middle Urals: 2m, 2f, Visimskii [11], VII-IX.1992, leg. NLU.

CATALOGUE. North Urals: Komi Republic [Utochkin & Pakhorukov, 1976; *C. sellarius*]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova et al., 1976; Azheganova & Glukhov, 1981; *Centromerita*], mountainous region [Esyunin, 1991]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Eskov, 1994].

REMARKS. The affiliation of the specimens from the Pechoro-Ilychskii Reserve to *Centromerus sellarius* [Utochkin & Pakhorukov, 1976] has long been questioned [Pakhorukov, 1980]. The ♀ from that locality depicted by Utochkin & Pakhorukov [1976] undoubtedly belongs to *C. incilium* (L. Koch), judged from the shape of the epigyne.

Centromerus levitarsus (Simon, 1884)

Figs 20-21.

MATERIAL. Middle Urals: 1f, Visimskii [11], multiherbaceous meadow, 25.VI.1993, TL. South Urals: 1m, 4f, Ilmenskii [12], paludal *Betula* forest, litter, 13.IX.1994, leg. N. Mazura.

REMARKS. New to the Urals. This species has been recorded in Karelia [Uzenbaev, 1984, 1986] and Krasnoyarsk Prov. [Eskov, 1988a] of Russia and displays a Siberio-European distribution pattern [Eskov & Marusik, 1992b].

Centromerus persimilis (O. P.-Cambridge, 1912)
Figs 2-3.

MATERIAL. Middle Urals: 1m, Spasskaya Gora [8], *Tilia* forest, 2.V.1988, leg. VOK.

REMARKS. New to the Russian fauna! This species displays a temperate European distribution pattern [Eskov & Marusik, 1992b].

Centromerus sylvaticus (Blackwall, 1841)

MATERIAL. Cispolar Urals: 12m, 11f, Neroika [2], meadow, 25.VI-22.VIII.1988, leg. YIK & AYM. Middle Urals: 7m, 3f, Visimskii [11], 1989, leg. NLU. South Urals: 1f, Iremel [13], talus ("kurumy"), 1.IX.1993, leg. VE.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1979], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova, 1974; Azheganova & Glukhov, 1981; Esyunin et al., 1993], mountainous region [Esyunin, 1991; Eskov & Marusik, 1992b; Gridina, 1992]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; Esyunin et al., 1993], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988].

Ceratinella brevipes (Westring, 1851)

MATERIAL. Middle Urals: 2m, Dolgoe [5], meadow bog, pitfall traps, 31.V-28.VI.1992, leg. VOK; 1m, 1f, right bank of Kama River [5], wet meadow, sweeping, 30.V.1993, leg. SE, VE & VOK; 1f, Visimskii [11], meadow, sweeping, 29.VI.1993, TL.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

REMARKS. The record of a "*Ceratinella brevipes* (Wieder)" in the Perm Area by Azheganova & Glukhov [1981] seems to be a typographical error actually representing a reiterated record of *C. brevis* (Wider) by Kharitonov & Berezneva [1970].

Ceratinella brevis (Wider, 1834)

MATERIAL. Middle Urals: 1m, Visimskii [11], paludal *Betula* forest, 16.VII.1991, leg. NLU. South Urals: 1m, Iremel [13], mixed forest, 7.VII.1984, leg. AYM; 1f, Tygynskoe [13], *Sphagnum* bog, pitfall traps, 28.VII-1.IX.1993, leg. AA.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1979, 1980], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals [Eskov, 1994]: Perm Area [Kharitonov & Berezneva, 1970; Azheganova & Glukhov, 1981; *C. brevipes* (Wieder)(sic!); Esyunin et al., 1993]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; Esyunin et al., 1993].

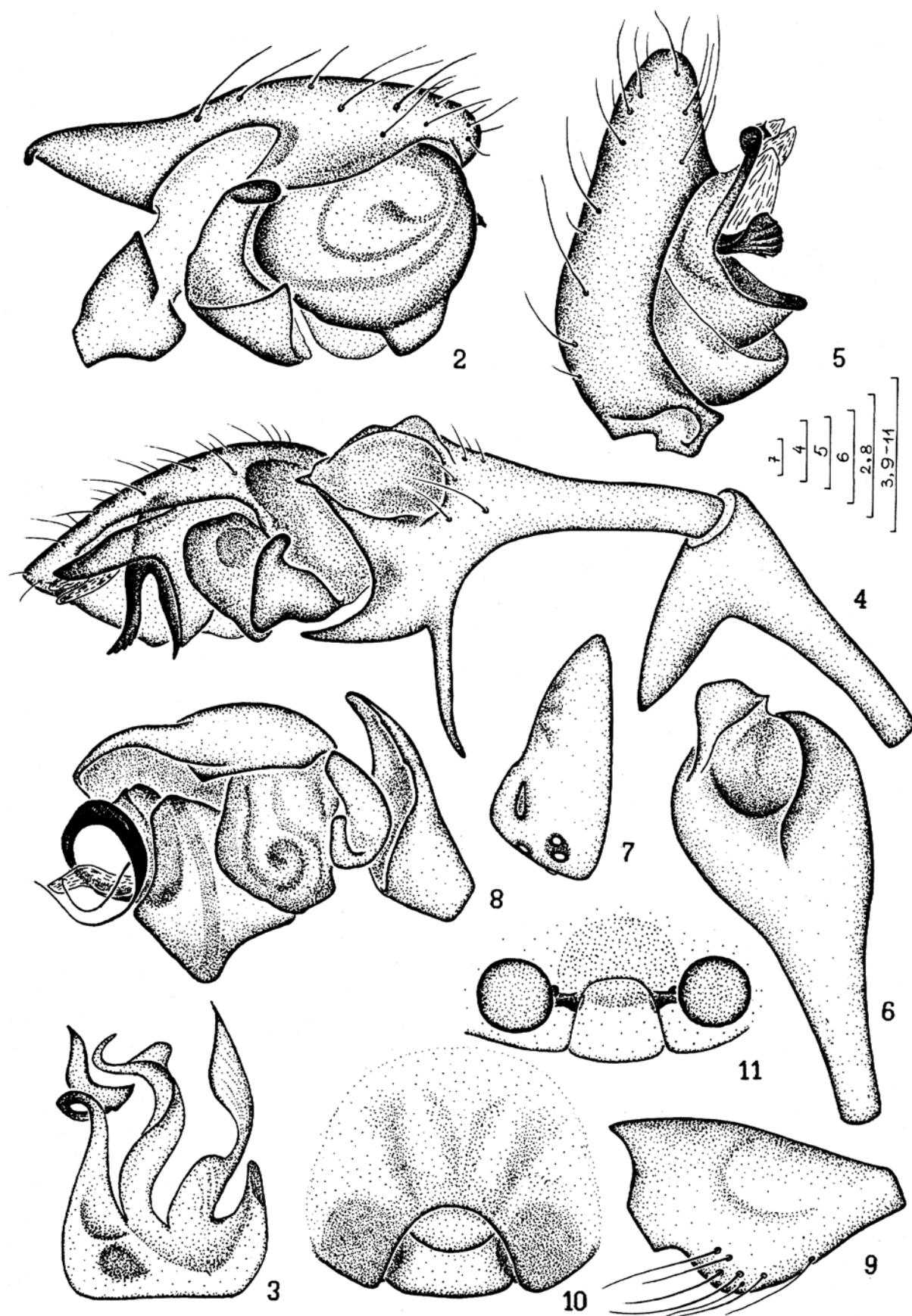
Ceratinella scabrosa (O. P.-Cambridge, 1871)

MATERIAL. Middle Urals: 4m, 2f, Preduralie [9], *Tilia* & *Picea-Tilia* forests, pitfall traps, 30.V-17.VII.1987-1989, leg. TIGr; 1m, 3f, Visimskii [11], *Betula-Pinus* forest, IX.1990, leg. NLU.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; Esyunin et al., 1993], mountainous region [Esyunin & Polyanin, 1990].

Figs 2-11. Some diagnostic features of *Centromerus persimilis* (O. P.-Cambridge, 1912) (2-3), *Erigone svenssoni* Holm, 1975 (4-6) and *Typhochrestus digitatus* (O. P.-Cambridge, 1872) (7-11): 2, 4, 8 - male palp, ectal; 5 - same, mesal; 3 - embolic division; 6, 9 - tibia, dorsal; 7 - male carapace; 10 - epigyne, ventral; 11 - vulva. Scales 0.1 mm.

Рис. 2-11. Некоторые диагностические признаки *Centromerus persimilis* (O. P.-Cambridge, 1912) (2-3), *Erigone svenssoni* Holm, 1975 (4-6) и *Typhochrestus digitatus* (O. P.-Cambridge, 1872) (7-11): 2, 4, 8 - пальпа самца, ретролатеральный вид; 5 - то же, пролатеральный вид; 3 - эмболовый отдел; 6, 9 - голень, вид сверху; 7 - головогрудь самца; 10 - эпигина, вид снизу; 11 - вульва. Масштаб 0,1 мм.



Ceratinopsis romana (O. P.-Cambridge, 1872)

MATERIAL. South Urals: 2f, Syrtlanovo [14], steppe meadow and steppe of *Stipa* and other herbs, 10-11.VIII.1990, leg. VE; 1f, Bekeshevo [18], dry meadow, 1.VIII.1987, leg. VE.

CATALOGUE. South Urals [Eskov, 1994]: Chelyabinsk Area [Pakhorukov et al., 1983; *Styloctetor*; Pakhorukov, 1985; S.; Eskov, 1988a; Esyunin & Pakhorukov, 1992].

Cnephalocotes obscurus (Blackwall, 1834)

MATERIAL. Cispolar Urals: 6m, 3f, Neroika [2], 700 m alt., dwarf *Betula* stand, pitfall traps, 13.VI-24.VII.1990, leg. YIK. Middle Urals: 1m, Dolgoe [5], meadow bog, V.1990, leg. VOK; 9m, 2f, environs of Perm City [5], *Cerasus* shrub on S slope and meadow of *Calanagrostis* and other herbs, 10.V.1987, leg. SE; 1m, Kachka [6], cultivated meadow, 4.VI.1987, leg. APB; 1m, Preduralie [9], *Picea* forest with green mosses, litter, 16.VI.1983, coll. ?; 1f, Visimskii [11], 1985, leg. NLU. South Urals: 1m, Tygynskoe [13], *Sphagnum* bog, pitfall traps, 20.VI-28.VII.1993, leg. AA.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals [Eskov, 1994]: Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals: mountainous region [Esyunin, 1990, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov, 1985; Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992].

Collinsia distincta (Simon, 1884)

MATERIAL. Middle Urals: 1m, Dolgoe [5], multiherbaceous meadow, pitfall traps, 10.VII-1.VIII.1993, leg. VOK; 1m, Spasskaya Gora [8], stony steppe, 21.V.1988, leg. VOK; 1f, Preduralie [9], river bank, 14.VI.1982, coll. ? South Urals: 1f, Shulgant-Tash [15], stony bank of brook, 27.VII.1986, leg. VE.

CATALOGUE. Polar Urals [Eskov, 1990b, 1994]: Sob River [Tanasevitch, 1985], Sapkei [Eskov, 1986a], Shchuchya River [Eskov, 1988a]. North Urals: Komi Republic [Pakhorukov, 1979, 1980; Eskov, 1994].

Collinsia submissa (L. Koch, 1879)

MATERIAL. South Urals: 1m, Petrovka [near 17], wet meadow, 22.VIII.1987, leg. VE.

REMARKS. New to the Urals. This species' range covers Europe, the Caucasus, Siberia, and Middle Asia [Tanasevitch, 1989, 1990; Eskov, 1990b].

Dactylopisthes video (Chamberlin & Ivie, 1947)

MATERIAL. Polar Urals: 1m, 2f, Khadyta-Yakha [1], mossy-lichen tundra, 23.VII-18.VIII.1982, leg. SE.

CATALOGUE. Polar Urals [Eskov, 1994]: Vorkuta Area [Tanasevitch, 1984b; *Scytiella komi*; Eskov, 1988a; S. k., 1990a]. Middle Urals: mountainous region [Esyunin, 1991; S. k.; Eskov, 1994].

Dicymbium nigrum (Blackwall, 1834)

MATERIAL. Middle Urals: 9m, 1f, Dolgoe [5], meadow bog, pitfall traps, 1.V-4.VI.1992, leg. VOK; 2m, environs of Perm City [5], *Alnus* thicket with *Urtica*, V.1989, leg. SE; 14m, 1f, right bank of Kama River [5], wet meadow, pitfall traps, 28.IV-21.V.1991, leg. VOK; 1m, Kachka [6], *Betula* forest, 24.V.1994, leg. SE; 1m, Sarashi [10], *Pinus* forest, pitfall traps, 6.V-1.VI.1991, leg. VOK.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov, 1985; B.; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992; Esyunin et al., 1993].

Diplocentria bidentata (Emerton, 1882)

MATERIAL. Cispolar Urals: 1m, 1f, Neroika [2], dwarf *Betula* stand, 6.VII.1990, leg. YIK. Middle Urals: 2m, 1f, environs of Perm City [5], *Pinus* forest with green mosses and *Cerasus* shrub on S slope, 9.V-18.VI.1987 and 22.IX.1988, leg. SE; 4m, 14f, Preduralie [9], *Picea* forest with green mosses, litter, 15.V-1.VII.1988, leg. TIGr; 1m, 7f, Visimskii [11], *Betula-Pinus* forest, VI.1990, leg. NLU.

CATALOGUE. Polar Urals [Eskov, 1994]: Sob River [Tanasevitch, 1985], Shchuchya River and Sapkei [Eskov, 1986a, 1988a]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. South Urals [Eskov, 1994]: mountainous region [Esyunin & Polyanin, 1990], Chelyabinsk Area [Polyanin & Pakhorukov, 1988].

Diplocephalus connatus Bertkau, 1889

MATERIAL. South Urals: 1m, 3f, Shulgant-Tash [15], dry meadow, 3.VII-3.IX.1989, leg. VE; 3f, Bashkirian [16], mixed forest, 19.VII.1985, leg. VE.

REMARKS. This is the second record of this species in the Urals. It was earlier found in Spasskaya Gora [8] [Eskov & Marusik, 1993]. The range of this species covers Europe, E-Kazakhstan and Middle-Siberian Tableland [Eskov, 1988b; Marusik et al., 1993].

Diplocephalus cristatus (Blackwall, 1833)

MATERIAL. Middle Urals: 4m, 7f, V. Kurya [5], kitchen-garden, pitfall traps, 21-25.X.1988 and 3-21.V.1991, leg. VOK.

CATALOGUE. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Eskov, 1994].

Diplocephalus picinus (Blackwall, 1841)

MATERIAL. Middle Urals: 2m, Perm City [5], recreation park, *Betula* forest, 15.VI.1994, leg. SE; 1m, 1f, environs of Perm City [5], *Pinus* forest with green mosses, 18.VI.1989, leg. SE; 2f, V. Kurya [5], kitchen-garden, pitfall traps, 3.IX-21.X.1988, leg. VOK; 9m, 6f, Spasskaya Gora [8], *Tilia* & *Tilia-Betula* forests, pitfall traps, 27.V-25.VIII.1989, leg. VOK; 7m, 8f, Preduralie [9], *Betula* & *Picea-Tilia* forests, litter, 1-27.VI.1987-1988, leg. TIGr; 2f, Visimskii [11], *Populus tremula-Betula* forest, 8.IX.1992, leg. NLU.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals [Eskov, 1994]: Sarashi [10] [Esyunin et al., 1993], mountainous region [Esyunin, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; Esyunin et al., 1993], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988].

REMARKS. A former record of this species in the S-Yamal Peninsula [Eskov, 1986a] was erroneous [Eskov, 1988b].

Diplostyla concolor (Wider, 1834)

MATERIAL. Middle Urals: 1m, Baseghi [3], multiherbaceous meadow, 15.VIII.1990, leg. SE; 1f, Belaya [11], 1.VI.1988, leg. YIK.

CATALOGUE. North Urals: Komi Republic [Pakhorukov, 1980; Eskov, 1994]. Middle Urals: Perm Area [Kharitonov & Berezneva, 1970; *Stylophora*; Azheganova, 1974; *Bathyphantes*; Azheganova et al., 1976; B.; Azheganova & Glukhov, 1981; B.; Esyunin et al., 1993; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov, 1985; B.; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992; Esyunin et al., 1993].

Dismodicus bifrons (Blackwall, 1841)

MATERIAL. Polar Urals: 2m, 4f, Khadyta-Yakha [1], floodland *Salix* grove, litter, 7.VII.1982, leg. SE. Cispolar Urals: 1f, Neroika [2], montane meadow, 20.VI.1989,

leg. AYM. Middle Urals: 1m, V. Kurya [5], kitchen-garden, sweeping, 11.VI.1994, leg. VOK; 2m, 6f, Preduralie [9], meadow, sweeping, 10-13.VI.1987, leg. TIGr.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], mountainous region [Esyunin & Polyanin, 1990].

Drepanotylus borealis Holm, 1945

MATERIAL. Polar Urals: 4m, 6f, Khadyta-Yakha [1], lake shore, litter, 24.VII-7.VIII.1982, leg. SE. Cispolar Urals: 2m, 2f, Neroika [2], 450 m alt., Shchekurya River valley, floodland meadow, pitfall traps, 15.VI-5.VII.1989, leg. YIK & AYM. Middle Urals: 1f, environs of Perm City [5], meadow of *Calamagrostis* and other herbs, 8.XI.1987, leg. SE. South Urals: 1f, Kananikolskoe [17], floodland meadow, 1987, leg. VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991, 1992; Eskov, 1994].

Drepanotylus uncatus (O. P.-Cambridge, 1873)

MATERIAL. Middle Urals: 1m, right bank of Kama River [5], wet meadow, pitfall traps, 1.X.1989-22.IV.1990, leg. VOK.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Entelecara acuminata (Wider, 1834)

MATERIAL. Middle Urals: 1f, Spasskaya Gora [8], *Betula* forest, sweeping, 6.VI.1987, leg. SE; 2m, 8f, Preduralie [9], *Tilia* forest, 23.VI.1983, coll. ?

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov, 1985; Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992].

Entelecara congenera (O. P.-Cambridge, 1879)

MATERIAL. Middle Urals: 1m, V. Kurya [5], kitchen-garden, sweeping on vegetation, 12.VI.1994, leg. VOK; 1m, Preduralie [9], forest meadow, herbage, 2.VII.1983, coll. ?

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Eskov, 1994].

Entelecara erythropus (Westring, 1851)

MATERIAL. Middle Urals: 1m, 1f, Preduralie [9], *Tilia* forest, litter, 2-14.VI.1988, leg. TIGr. South Urals: 1m, Shulgan-Tash [15], VII.1989, leg. VE.

CATALOGUE. South Urals [Eskov, 1994]: Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988].

Erigone svenssoni Holm, 1975

Figs 4-6.

MATERIAL. Polar Urals: 1m, Khadyta-Yakha [1], floodland *Betula* forest, canopy foliage, 20.VII.1981, leg. SE.

REMARKS. New to the Urals. This species has been known from the Murmansk Area [Byzova et al., 1986] of Russia. *E. svenssoni* was originally described from Swedish Lapland [Holm, 1975].

Erigonella hiemalis (Blackwall, 1841)

MATERIAL. Middle Urals: 1f, environs of Perm City [5], *Pinus* forest with green mosses, sweeping on vegetation, 28.V.1989, leg. SE; 1m, Kungur Distr., Zarubino [near 8], *Betula* forest, litter, 12.VI.1994, leg. SE; 2m, 6f,

Preduralie [9], meadow bog, *Tilia* & *Tilia-Picea* forests, litter, 19.VIII-17.IX.1987-1988, leg. TIGr; 4f, Visimskii [11], *Betula-Pinus* forest, IX.1992, leg. NLU. South Urals: 1m, 5f, Tyulyuk [13], *Pinus* forest, moss, 3.IX.1993, leg. VE.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1979], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Eskov, 1994].

Erigonella ignobilis (O. P.-Cambridge, 1871)

MATERIAL. Middle Urals: 1m, right bank of Kama River [5], wet meadow, 21.V.1991, leg. VOK; 6f, Visimskii [11], multiherbaceous meadow, VI-IX.1992, leg. NLU.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1979], Ekaterinburg Area [Pakhorukov, 1977]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Eskov, 1994].

Erigonoplus globipes (L. Koch, 1872)

MATERIAL. Middle Urals: 1f, Spasskaya Gora [8], limestone denudation, 15.V.1988, leg. VOK.

REMARKS. This species has been recorded in the Troitskii Reserve [19] by Eskov & Marusik [1993]. Known from Europe and the Caucasus [Tanasevitch, 1990].

Estrandia grandeva Keyserling, 1886

MATERIAL. Cispolar Urals: 1f, Neroika [2], talus ("kurumy"), 22.VIII.1988, leg. AYM. Middle Urals: 1m, 1f, Visimskii [11], *Betula* & *Picea* forests, sweeping, 26-29.VI.1993, leg. NLU.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov & Utochkin, 1977; Pakhorukov, 1979, 1981; Eskov, 1988a: *Linyphia*], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Evansia merens O. P.-Cambridge, 1900

MATERIAL. Middle Urals: 1m, environs of Perm City [5], *Pinus* forest, 23.IV.1989, leg. SE.

REMARKS. New to the Ural fauna. This species has been recorded from near Samara [Krasnobaev & Matveyev, 1993], Volga region. Its range covers also South and Middle Europe [Bonnet, 1956] as well as the Caucasus [Tanasevitch, 1990].

Gnathonarium dentatum (Wider, 1834)

MATERIAL. Middle Urals: 1m, 3f, Dolgoe [5], meadow bog, 1.V-15.VII.1991-1993, leg. VOK; 3m, right bank of Kama River [5], wet meadow, pitfall traps, 3.IX.1989-30.V.1990, leg. VOK; 1m, Spasskaya Gora [8], S slope, sweeping on vegetation, 20.VI.1987, leg. SE; 1m, Preduralie [9], multiherbaceous meadow, 13.VI.1985, leg. O.A. Sursyakova; 1m, Visimskii [11], 1989, leg. NLU.

CATALOGUE. South Urals [Eskov, 1994]: Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988, 1992].

Gonatium paradoxum (L. Koch, 1869)

MATERIAL. Middle Urals: 4m, environs of Perm City [5], meadow of *Calamagrostis* and other herbs, pitfall traps, 6.IX-7.X.1987; 2f, same locality, 7.X.1987-10.V.1988, leg. SE.

CATALOGUE. South Urals: Bashkiria [Pakhorukov & Efimik, 1988: *G. corallipes*; Eskov, 1994].

Gonatium rubens (Blackwall, 1833)

MATERIAL. Cispolar Urals: 2m, 1f, Neroika [2], talus ("kurumy") and grassy-mossy tundra, pitfall traps, 24.VI-

22.VIII.1988-1990, leg. YIK & AYM. Middle Urals: 3f, Spasskaya Gora [8], steppe of *Stipa* and other herbs, shrub steppe, pitfall traps, 1.XI.1987-27.V.1988, leg. VOK. South Urals: 3f, Iremel [13], montane tundra, 26.VII.1990, leg. ABP.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Kulczyński, 1916; Eskov, 1985, 1986a, 1988a], Sob River [Tanasevitch, 1985]. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1979, 1980], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals [Eskov, 1994]: mountainous region [Esyunin, 1991], Ekaterinburg Area [Shlykov, 1975]. South Urals: Chelyabinsk Area [Pakhorukov, 1985; Esyunin & Pakhorukov, 1992; Eskov, 1994].

Gongylidiellum latebricola (O. P.-Cambridge, 1871)

MATERIAL. Middle Urals: 1m, Dolgoe [5], meadow bog, pitfall traps, 31.V-28.VI.1992, leg. VOK; 1m, 5f, Visimskii [11], multitherbaceous meadow, 9.IX.1992, leg. NLU.

CATALOGUE. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov, 1985; Esyunin & Pakhorukov, 1992].

Gongylidiellum murcidum Simon, 1884

MATERIAL. Middle Urals: 17m, 3f, Dolgoe [5], meadow bog, 1.V-28.VI.1992, leg. VOK; 1m, right bank of Kama River [5], wet meadow, 3.V.1991, leg. VOK.

CATALOGUE. South Urals: Chelyabinsk Area [Esyunin & Pakhorukov, 1992; Eskov, 1994].

Gongylidium rufipes (Linnaeus, 1758)

MATERIAL. Middle Urals: 8m, 17f, environs of Perm City [5], *Ailus* thicket, sweeping, 28.V.1989, leg. SE; 2m, V. Kurya [5], kitchen-garden, sweeping, 11.VI.1994, leg. VOK; 2m, 2f, Preduralie [9], *Salix*, coniferous and small-leaved forests, 22.V-30.VI.1988, leg. TIGr. South Urals: 2f, Syrtlanovo [14], *Populus* stand, 6.VII.1985, leg. VE.

CATALOGUE. South Urals: Chelyabinsk Area [Pakhorukov, 1985; Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992; Eskov, 1994].

Hypselistes jacksoni (O. P.-Cambridge, 1902)

H. jacksoni: Marusik & Leech, 1993: 1118, figs 6-10, 21, 22.

MATERIAL. Middle Urals: 3m, 5f, Perm City [5], recreation park, *Pinus* forest, sweeping on vegetation, 31.V.1993, leg. VE; 2m, 2f, environs of Perm City [5], *Pinus* forest, sweeping on vegetation, 6.IX.1988 and 28.V.1989, leg. SE; 2m, 7f, Visimskii [11], *Betula* forest & meadow, sweeping on vegetation, 26-29.VI.1993, TL.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1980], Ekaterinburg Area [Pakhorukov, 1977]. *H. semiflavus*, 1984: *H. s.*. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Polyanin & Lagunov, 1992].

Hypselistes semiflavus (L. Koch, 1879)

H. semiflavus: Marusik & Leech, 1993: 1120, figs 15-18, 25, 26.

MATERIAL. Polar Urals: 1m, 3f, Khadyta-Yakha [1], floodland mixed forest & wet mossy tundra, 1-31.VII.1981, leg. SE.

CATALOGUE. Polar Urals [Kulczyński, 1916; Bakhalov & Korshunov, 1976].

Incestophantes incestoides (Tanasevitch & Eskov, 1987)

MATERIAL. South Urals: 1m, Bashkiria, Baimak Distr. [near 18], rock, under stones, 29.VII.1987, leg. VE.

REMARKS. New to the Urals. This species was originally described from the Magadan Area [Tanasevitch & Eskov, 1987], and later it was repeatedly recorded in the Chukot Peninsula [Marusik, 1991] and "South Siberia" [Tanasevitch, 1992]. The above locality is the westernmost record of the species.

Incestophantes incestus (L. Koch, 1879)

MATERIAL. South Urals: 1m, 1f, Iremel [13], montane mossy tundra, 31.V.1989, leg. ABP.

CATALOGUE. Polar Urals [Kulczyński, 1916: *Lepthyphantes*; Bakhalov & Korshunov, 1976: *L.*; Tanasevitch & Eskov, 1987: *L.*; Eskov, 1994].

Incestophantes kochiellus (Strand, 1900)

MATERIAL. Middle Urals: 1f, environs of Perm City [5], *Pinus* forest with green mosses, pitfall traps, X.1988-II.1989, leg. SE; 4m, 5f, Preduralie [9], *Pinus* & *Picea* forests, 9-16.VI.1988, leg. SE & TIGr; 1f, Visimskii [11], 1989, leg. NLU.

CATALOGUE. Polar Urals [Eskov, 1994]: South Yamal [Pakhorukov, 1981: *Leptophantes*], Sob River [Tanasevitch, 1985: *L.*]. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov & Utochkin, 1977: *L.*; Pakhorukov, 1980: *L.*, 1981: *L.*; Eskov, 1988a: *L.*], Ekaterinburg Area [Pakhorukov, 1977: *L.*]. Middle Urals: mountainous region [Esyunin, 1991: *L.*; Eskov, 1994].

Kaestneria dorsalis (Wider, 1834)

MATERIAL. South Urals: 1m, 2f, Ilmenskii [12], 10.V.1986, leg. SE.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Utochkin & Pakhorukov, 1976: *Bathyphanes*; Pakhorukov, 1980], Perm Area [Kharitonov, 1926: *B.*, 1928, 1932]. Middle Urals: Perm Area [Kharitonov & Berezneva, 1970; Azheganova, 1974: *B.*; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Ghirfanova et al., 1992: *B.*].

Kaestneria pullata (O. P.-Cambridge, 1863)

MATERIAL. Polar Urals: 4m, 2f, Khadyta-Yakha [1], lake shore & floodland *Salix* grove, sweeping on vegetation, 13-23.VII.1981, leg. SE. Cispolar Urals: 1m, 1f, Neroika [2], 450 m alt., sweeping on vegetation, VII.1990, leg. AYM. Middle Urals: 1f, Visimskii [11], meadow, sweeping on vegetation, 2.VII.1993, TL.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1980], Ekaterinburg Area [Pakhorukov, 1977]. Middle Urals: Perm Area [Azheganova, 1974: *Bathyphanes*; Azheganova & Glukhov, 1981: *B.*; Eskov, 1994]. South Urals: Chelyabinsk Area [Azheganova, 1951: *Stylophora*; Utochkin & Golovashkina, 1977: *Diplostyla*; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992; Eskov, 1994].

Kikimora palustris Eskov, 1988

MATERIAL. Polar Urals: 2f, Khadyta-Yakha [1], mossy tundra, 16.VII.1982, leg. SE.

REMARKS. New to the Urals. This species has hitherto been known only from several places in Siberia: Putoran Plateau, upper flow of Kolyma River and Evenk Republic [Eskov, 1988c]. The above is the westernmost record of this species.

Latithorax latus (Holm, 1939)

MATERIAL. Polar Urals: 2m, 2f, Khadyta-Yakha [1], floodland *Betula* forest, litter, 20-30.VII.1981-1982, leg. SE. Middle Urals: 3f, Preduralie [9], coniferous forest, litter, 30.V.1987, leg. TIGr; 3m, 1f, Visimskii [11], *Betula* forest, litter, 30.V.1990, leg. NLU. South Urals: 5m, 11f, Iremel [13], *Picea* forest with green mosses, 26.VII.1990, leg. ABP.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkov, 1977; Eskov, 1994].

Latithorax thaleri Eskov, 1981

MATERIAL. Cispolar Urals: 1m, Neroika [2], 700 m alt., montane meadow, 18-24.VI.1990, leg. YIK. Middle Urals: 4m, 14f, Visimskii [11], *Betula-Picea* forest, VI.1990, leg. NLU. South Urals: 3m, Bashkirian [16], *Pinus-Betula* forest, litter, 16.VIII.1988, leg. VE; 1m, 3f, Tyulyuk [13], *Pinus* forest, litter, 3.IX.1993, leg. VE.

CATALOGUE. Polar Urals: Shchuchya River, Sob River, environs of Vorkuta City [Eskov, 1981, 1986a, 1988a, 1994; Tanasevitch, 1985].

Lepthyphantes abiscoensis Holm, 1945

MATERIAL. Middle Urals: 2m, 1f, Preduralie [9], limestone denudation, 17.X.1993, leg. SE; 1m, Visimskii [11], *Abies-Picea* forest, 3.VI.1990, leg. NLU. South Urals: 1m, 2f, Iremel [13], *Abies-Picea* forest, mosses, 31.VIII.1993, leg. VE.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov, 1979, 1981], Ekaterinburg Area [Pakhorkov, 1977, 1981]. South Urals: Bashkiria [Pakhorkov & Efimik, 1988; Eskov, 1994].

Lepthyphantes alacris (Blackwall, 1853)

MATERIAL. Middle Urals: 2m, 5f, Visimskii [11], coniferous forest, litter, VI-IX.1989, leg. NLU. South Urals: 1f, Bashkirian [16], multiherbaceous meadow, 17.VII.1985, leg. VE.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals [Eskov, 1994]: Komi Republic [Vasilevitch & Pakhorukov, 1976; Utochkin & Pakhorukov, 1976; Pakhorukov, 1979], Ekaterinburg Area [Pakhorkov, 1977, 1984]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova, 1974; Azheganova et al., 1976; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991]. South Urals: mountainous region [Esyunin & Polyanin, 1990].

Lepthyphantes angulipalpis (Westring, 1851)

MATERIAL. Middle Urals: 1f, Visimskii [11], *Picea-Betula* forest, VI.1991, leg. NLU. South Urals: 1f, Iremel [13], clearing, 1.VI.1989, leg. ABP.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkov, 1977; Eskov, 1994]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova et al., 1976; Azheganova & Glukhov, 1981; Esyunin et al., 1993], mountainous region [Esyunin, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988], Chelyabinsk Area [Pakhorkov, 1985; Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992].

Lepthyphantes bergstroemi Schenkel, 1931

MATERIAL. Middle Urals: 1f, Visimskii [11], *Abies-Picea* forest, 21.VII.1990, leg. NLU.

CATALOGUE. Polar Urals [Eskov, 1994]: South Yamal [Pakhorkov, 1981], Sob River [Tanasevitch, 1985]. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov & Utochkin, 1977; Pakhorukov, 1979, 1981; Eskov, 1988a], Ekaterinburg Area [Pakhorkov, 1977, 1981, 1984]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: Bashkiria [Pakhorkov & Efimik, 1988; Eskov, 1994].

Lepthyphantes cristatus (Menge, 1866)

MATERIAL. Middle Urals: 2f, Visimskii [11], *Betula-Pinus* forest, IX.1990, leg. NLU.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Utochkin & Pakhorukov, 1976], Ekaterinburg Area [Pakhorkov, 1977, 1984]. Middle Urals [Eskov,

1994]: Perm Area [Kharitonov & Berezneva, 1970; Azheganova, 1974; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991]. South Urals: Bashkiria [Pakhorkov & Efimik, 1988; Eskov, 1994].

Lapthyphantes decipiens (L. Koch, 1879)

MATERIAL. Middle Urals: 3m, 1f, environs of Perm City [5], *Pinus* forest with green mosses, pitfall traps, 9.V-18.VI.1989, leg. SE; 2m, 2f, Preduralie [9], *Pinus* forest, litter, 30.VI.1989, leg. TIGr; 2m, 5f, Visimskii [11], *Picea* forest, VI.1990, leg. NLU. South Urals: 1f, Syrtlanovo [14], broadleaved forest, 3.VIII.1991, leg. VE; 1m, Shulgan-Tash [15], mixed forest, 14.VIII.1985, leg. VE.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Eskov, 1986a, 1988a; Tanasevitch, 1987], Sob River [Tanasevitch, 1985]. North Urals: Ekaterinburg Area [Pakhorkov, 1977, 1979, 1981, 1984; Eskov, 1988a, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: mountainous region [Esyunin & Polyanin, 1990; Eskov, 1994].

Lepthyphantes geminus Tanasevitch, 1982

MATERIAL. Cispolar Urals: 5m, 2f, Neroika [2], 700 m alt., montane meadow, pitfall traps, 15.VI-22.VIII.1988-1990, leg. YIK & AYM. Middle Urals: 1m, Dolgoe [5], meadow bog, V.1992, leg. VOK; 4m, environs of Perm City [5], *Abrus* thicket with *Urtica*, V.1989, leg. SE; 3m, 3f, Visimskii [11], coniferous forest, VI-VII.1989-1990, leg. NLU.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, environs of Vorkuta City [Tanasevitch, 1982; Eskov, 1988a], Sob River [Tanasevitch, 1985].

REMARKS. This species seems to be a W-Siberian vicariant of the European *L. angulatus* (O. P.-Cambridge, 1881). Within the Urals, the latter species has securely been recorded only in their mountainous middle part [Esyunin, 1991]. The record of this species in Bashkiria [Pakhorkov & Efimik, 1988] is based on ♀♀, thus requiring confirmation upon ♂♂.

Lepthyphantes nigriventris (C.L. Koch, 1879)

MATERIAL. Cispolar Urals: 1m, 1f, Neroika [2], dwarf *Betula* stand & montane meadow, 25.VII-15.VIII.1988, leg. AYM; 3m, 2f, same locality, Shchekurya River valley, multiherbaceous meadow & *Betula* forest, 7-22.VIII.1988, leg. YIK & AYM. Middle Urals: 1m, 10f, Perm City [5], recreation park, *Picea-Abies* forest, 9.IX.1988, leg. VOK; 1m, 4f, environs of Perm City [5], *Pinus* forest with green mosses, 6-20.IX.1988, leg. SE; 9m, 2f, Kultaevo [near 5], *Pinus-Picea* forest, 19.IX.1990, leg. VOK; 3f, V. Kurya [5], kitchen-garden, pitfall traps, 24.VIII-21.X.1988, leg. VOK; 1m, 2f, Spasskaya Gora [8], *Tilia* & *Betula-Tilia* forests, pitfall traps, 19.IX.1987-23.IV.1988, leg. VOK; 3m, 3f, Visimskii [11], *Betula-Abies* forest, VII.1989, leg. NLU. South Urals: 2m, 2f, Nurgush [13], *Betula* forest with ferns, 7-9.VIII.1987, leg. VNO.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Kulczyński, 1916; Bakhvalov & Korshunov, 1976; Eskov, 1986a, 1988a; Tanasevitch, 1987], Sob River [Tanasevitch, 1985]. North Urals: Ekaterinburg Area [Pakhorkov, 1977, 1984; Eskov, 1994]. Middle Urals [Eskov, 1994]: Sarashi [10] [Esyunin et al., 1993], mountainous region [Esyunin, 1991; Gridina, 1992]. South Urals: Bashkiria [Pakhorkov & Efimik, 1988; Esyunin et al., 1993; Eskov, 1994].

Lepthyphantes obscurus (Blackwall, 1841)

MATERIAL. Polar Urals: 2m, 5f, Khadyta-Yakha [1], floodland mixed and *Betula* forests, litter & herbage, 25.VII-4.VIII.1992, leg. SE. Middle Urals: 1f, Visimskii [11], 1989, leg. NLU.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Utochkin & Pakhorukov, 1976; Pakhorukov,

1980], Ekaterinburg Area [Pakhorkov, 1977]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova, 1974; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988], mountainous region [Esyunin & Polyanin, 1990].

Leptiphyantes quadrimaculatus Kulczyński, 1898
Figs 30-32.

MATERIAL. Middle Urals: 1m, Spasskaya Gora [8], limestone denudation, 30.IV.1989, leg. SE (det. A.V. Tanasevitch); 3f, same locality, pitfall traps, 31.VII-2.X.1989, leg. VOK. South Urals: 1m, 1f, Syrtlanovo [14], *Artemisia-Stipa* steppe with other herbs & rock on stream bank, 2-30.VIII.1991, leg. VE.

REMARKS. New to the Urals. The record of *L. keyserlingi* (Ausser, 1867) in the Perm Area by Esyunin & Kozminykh [1992] refers in fact to *L. quadrimaculatus*. This species is a European (s.lat.) subendemic [Tanasevitch, 1990b].

Leptiphyantes suffusus Strand, 1901

MATERIAL. Middle Urals: 1f, Preduralie [9], *Picea* forest with *Equisetum*, 30.VI.1983, coll. ? South Urals: 1m, 2f, Iremel [13], *Abies-Picea* forest, 31.VIII.1993, leg. VE.

CATALOGUE. Cispolar Urals [Pakhorkov, 1981; Eskov, 1994]. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov & Utochkin, 1977; Pakhorkov, 1980, 1981; Eskov, 1988a], Ekaterinburg Area [Pakhorkov, 1977].

Leptiphyantes tenebricola (Wider, 1834)

MATERIAL. Middle Urals: 3m, 1f, Visimskii [11], *Picea*, *Betula-Abies* & *Betula-Pinus* forests, litter, 7.VI-10.IX.1990, leg. NLU. South Urals: 1f, Tygynskoe [13], *Betula* forest, litter, 1.IX.1994, leg. VE.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Utochkin & Pakhorkov, 1976], Ekaterinburg Area [Pakhorkov, 1977, 1984]. Middle Urals [Eskov, 1994]: Perm Area [Kharitonov & Berezneva, 1970; Azheganova, 1974; Azheganova & Glukhov, 1981; Gridina, 1992], mountainous region [Esyunin, 1990, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988; Ghirfanova et al., 1992; Esyunin et al., 1993], Chelyabinsk Area [Pakhorkov & Polyanin, 1987; Polyanin & Pakhorkov, 1988; Esyunin et al., 1993].

Leptorhoptrum robustum (Westring, 1851)

MATERIAL. Cispolar Urals: 19m, 6f, Neroika [2], talus ("kurumy") & montane meadow, pitfall traps, 1-25.VII.1990, leg. YIK & AYM. Middle Urals: 2f, environs of Perm City [5], *Alnus* thicket with *Urtica*, pitfall traps, 9.V-18.VI.1989, leg. SE; 1f, Visimskii [11], paludal *Betula* forest, 7.VII.1993, TL. South Urals: 1f, Masim Range [near 15], dwarf *Betula* woodland, 21.VIII.1989, leg. VE.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Kulczyński, 1916; Bakhvalov & Korshunov, 1976]; *L. hutwaiti*; Eskov, 1985, 1986a], environs of Vorkuta City [Eskov, 1986a], Sob River [Tanasevitch, 1985]. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov, 1980], Ekaterinburg Area [Pakhorkov, 1977; *L. h.*]. Middle Urals: mountainous region [Esyunin, 1990; *L. h.*, 1991, 1992; Gridina, 1992; *L. h.*; Eskov, 1994]. South Urals: mountainous region [Esyunin & Polyanin, 1990; Eskov, 1994].

Lophomma punctatum (Blackwall, 1841)

MATERIAL. Middle Urals: 1m, 4f, Dolgoe [5], meadow bog, pitfall traps, 1.V-4.VI.1992, leg. VOK; 2m,

environs of Perm City [5], *Alnus* thicket with *Urtica*, 9-14.V.1989, leg. SE.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: mountainous region [Esyunin & Polyanin, 1990], Chelyabinsk Area [Esyunin & Pakhorkov, 1992].

Macrargus carpenteri (O. P.-Cambridge, 1894)

MATERIAL. Middle Urals: 4m, 8f, V. Kurya [5], *Pinus* forest & sandy plots, pitfall traps, 14.IV-30.VI.1990, leg. VOK. South Urals: 1m, 3f, Syrtlanovo [14], steppe of *Stipa* and other herbs, 2.IX.1990, leg. VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals; Chelyabinsk Area [Esyunin & Pakhorkov, 1992; Eskov, 1994].

Macrargus multessimus (O. P.-Cambridge, 1875)

MATERIAL. South Urals: 1m, Sterlitamak [near 14], *Alnus* thicket, VII.1989, leg. D.V. Zeifert; 2m, 2f, Tygynskoe [13], *Picea* forest, moss, 1.IX.1993, leg. VE; 1f, Tyulyuk [near 13], *Pinus* forest, 3.IX.1993, leg. VE.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Grese, 1909: *Tmeticus granulosus*; Bakhvalov & Korshunov, 1976: *T. g.*; Eskov, 1985, 1986a, 1988a], Sob River [Tanasevitch, 1985]. North Urals [Eskov, 1988a, 1994]: Komi Republic [Pakhorkov & Utochkin, 1977; Pakhorkov, 1979, 1981], Ekaterinburg Area [Pakhorkov, 1977, 1981, 1984]. Middle Urals [Eskov, 1994]: Perm Area [Gridina, 1992; Esyunin et al., 1993], mountainous region [Esyunin, 1991]. South Urals: Chelyabinsk Area [Pakhorkov, 1985: *M. rufus*, 1989; *M. r.*; Esyunin & Pakhorkov, 1992; Eskov, 1994].

Macrargus rufus (Wider, 1834)

MATERIAL. Cispolar Urals: 1m, Neroika [2], montane meadow, 20.VI.1989, leg. AYM. Middle Urals: 5m, 8f, Visimskii [11], 1989, leg. NLU. South Urals: 2f, Iremel [13], *Abies-Picea* & *Pinus* forests, 3.IX.1993, leg. VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkov, 1977, 1984; Eskov, 1994]. Middle Urals [Eskov, 1994]: Perm Area [Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988; Esyunin et al., 1993], Chelyabinsk Area [Pakhorkov & Polyanin, 1987; Polyanin & Pakhorkov, 1988; Esyunin et al., 1993].

REMARKS. The records of this species in the Troitskii Reserve by Pakhorkov [1985, 1989] are erroneous [Esyunin & Pakhorkov, 1993].

Maro minutus O. P.-Cambridge, 1906

MATERIAL. Middle Urals: 1m, Preduralie [9], broad-leaved forest, litter, 27.VI.1983, coll. ?; 3m, Visimskii [11], multiherbaceous meadow, VII-IX.1992, leg. NLU. South Urals: 1m, 2f, Bashkirian [16], *Pinus* forest with *Calamagrostis*, litter, 14.VI.1988, leg. VE; 4m, Tygynskoe [13], *Sphagnum* bog, pitfall traps, 20.VI-28.VII.1993, leg. AA.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: Chelyabinsk Area [Polyanin & Pakhorkov, 1988; Eskov, 1994].

Maro sublestus Falconer, 1915

MATERIAL. Middle Urals: 3m, 3f, environs of Perm City [5], *Pinus* forest with green mosses, 6.IX.1988-2.V.1989, leg. SE; 10m, 26f, Preduralie [9], *Picea*, *Tilia* & *Pinus* forests, litter, 30.V-17.IX.1987-1989, leg. TIGr; 5m, 5f, Visimskii [11], *Betula-Pinus* forest, VI.1990, leg. NLU. South Urals: 1f, Tyulyuk [near 13], *Pinus* forest, moss, 3.IX.1993, leg. VE; 1m, Syrtlanovo [14], bank of river, 12.VIII.1990, leg. VE; 2m, Shulgan-Tash [15], *Betula* &

Populus tremula forests, 22.VII-22.VIII.1989, leg. VE; 1m, 1f, Bashkirian [16], *Pinus* forest with *Calamagrostis*, 14.VI.1988, leg. VE; 1m, Kananikolskoe [17], wet meadow, 15.VIII.1987, leg. VE.

CATALOGUE. North Urals: Komi Republic [Pakhorkov, 1980; Eskov, 1991; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: Chelyabinsk Area [Pakhorkov & Polyanin, 1987; Polyanin & Pakhorkov, 1988; Eskov, 1991, 1994].

Maso sundevalli (Westring, 1851)

MATERIAL. Middle Urals: 3m, 1f, Spasskaya Gora [8], *Tilia-Betula* forest, pitfall traps, 25.VII-22.VIII.1988, leg. VOK; 2m, 3f, Kungur Distr., Zarubino [near 8], *Betula* forest, litter, 11.VI.1994, leg. SE; 2m, 8f, Preduralie [9], *Picea-Tilia* forest, litter, 23.VI-17.VII.1987, leg. TIGr.

CATALOGUE. Polar Urals: Shchuchya River [Eskov, 1988a, 1994]. North Urals: Ekaterinburg Area [Pakhorkov, 1977, 1979, 1984; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988; Esyunin et al., 1993], Chelyabinsk Area [Pakhorkov, 1985; Pakhorkov & Polyanin, 1987; Polyanin & Pakhorkov, 1988; Esyunin & Pakhorkov, 1992; Esyunin et al., 1993].

Mecynargus monticola (Holm, 1943)

MATERIAL. Cispolar Urals: 3m, 5f, Neroika [2], 700 m alt., dwarf *Betula* stand, 13-20.VI.1989, leg. YIK & AYM.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Eskov, 1981: *Rhaebothorax*, 1986a: R.], Sob River [Tanasevitch, 1985: R.; Eskov, 1988a: R.].

Mecynargus sphagnicola (Holm, 1939)

MATERIAL. Cispolar Urals: 3m, 2f, Neroika [2], 700 m alt., dwarf *Betula* stand, pitfall traps, 25.VI-19.VIII.1989, leg. YIK & AYM.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Eskov, 1981: *Rhaebothorax jamalensis*, 1986a: R. j., 1988a: R. j., 1988d], environs of Vorkuta City [Eskov, 1988d].

Metopobactrus prominulus (O.P.-Cambridge, 1872)

MATERIAL. Middle Urals: 1m, 2f, Preduralie [9], multiherbaceous meadow, sweeping, 20.VI.1983, coll. ? South Urals: 1f, Kananikolskoe [17], floodland meadow, 22.VIII.1987, leg. VE.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: mountainous region [Esyunin & Polyanin, 1990], Chelyabinsk Area [Pakhorkov, 1985; Esyunin & Pakhorkov, 1992].

Micrargus herbigradus (Blackwall, 1854)

MATERIAL. Cispolar Urals: 5m, 2f, Neroika [2], montane meadow, pitfall traps, 15.VI-5.VII.1989, leg. YIK & AYM; 1m, same locality, valley of Shchekurya River, meadow, 25.VI.1989, leg. YIK. Middle Urals: 1m, Perm City [5], recreation park, *Picea-Tilia* forest, 23.VII.1988, leg. VOK; 1m, 2f, Preduralie [9], *Picea-Tilia* forest, litter, 13-27.VI.1987, leg. TIGr; 7m, 11f, Visimskii [11], *Betula-Abies*, *Picea-Abies* & *Picea* forests, VI-IX.1989, leg. NLU.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: mountainous region [Esyunin & Polyanin, 1990], Chelyabinsk Area [Pakhorkov, 1985; Esyunin & Pakhorkov, 1992].

Micrargus subaequalis (Westring, 1851)

MATERIAL. Middle Urals: 1m, Visimskii [11], paludal *Betula-Picea* forest, 17.IX.1992, leg. NLU.

CATALOGUE. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988], Chelyabinsk Area [Esyunin & Pakhorkov, 1992].

Microlinyphia pusilla (Sundevall, 1830)

MATERIAL. Cispolar Urals: 1f, Neroika [2], 450 m alt., VII.1990, leg. AYM.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Vasilevitch & Pakhorkov, 1975: *Linyphia*; Utochkin & Pakhorkov, 1976: L.], Ekaterinburg Area [Kharitonov, 1936: L.; Pakhorkov, 1977: L.]. Middle Urals [Eskov, 1994]: Perm Area [Kharitonov & Bereznova, 1970: L.; Azheganova, 1974: L.; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991], Ekaterinburg Area [Kharitonov, 1923: L., 1932: L.; Shlykov, 1975: L.]. South Urals [Eskov, 1994]: Orenburg Area [Kuznetsov & Koblova, 1977: L.; Kuznetsov, 1988: L.], Bashkiria [Pakhorkov & Efimik, 1988: L.; Ghirfanova et al., 1992: L.], mountainous region [Esyunin & Polyanin, 1990], Chelyabinsk Area [Azheganova, 1949: L., 1951: L.; Utochkin & Golovashkina, 1977: L.; Pakhorkov et al., 1983: L.; Pakhorkov, 1985: L.; Pakhorkov & Polyanin, 1987; Polyanin & Pakhorkov, 1988: L.; Esyunin & Pakhorkov, 1992; Polyanin & Lagunov, 1992].

Minyrioloides trifrons (O. P.-Cambridge, 1863)

MATERIAL. Polar Urals: 9m, 58f, Khadyta-Yakha [1], floodland meadow and *Salix* grove at river bank, 17.VII-28.VIII.1982, leg. SE. Middle Urals: 1f, Perm City [5], recreation park, *Betula* forest, 16.VI.1994, leg. SE.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov, 1980], Ekaterinburg Area [Pakhorkov, 1977: M.]. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988: M.], mountainous region [Esyunin & Polyanin, 1990: M.], Chelyabinsk Area [Pakhorkov & Polyanin, 1987: M.; Polyanin & Pakhorkov, 1988: M.].

Minyrioloides pusillus (Wider, 1834)

MATERIAL. Middle Urals: 3m, 7f, Visimskii [11], coniferous forest, litter, IX.1989, leg. NLU. South Urals: 1m, 4f, Nurgush [13], *Picea* forest with green mosses, 8.IX.1997, leg. ABP; 2m, 5f, Tyulyuk [near 13], *Pinus* forest, 3.IX.1993, leg. VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkov, 1977, 1979, 1984; Eskov, 1994]. Middle Urals [Eskov, 1994]: Perm Area [Kharitonov, 1931, 1932: lit.; Azheganova & Glukhov, 1981], mountainous region [Esyunin, 1991]. South Urals [Eskov, 1994]: Bashkiria [Pakhorkov & Efimik, 1988], Chelyabinsk Area [Polyanin & Pakhorkov, 1988].

Mioxena blanda (Simon, 1884)

MATERIAL. Middle Urals: 1m, 1f, V. Kurya [5], kitchen-garden, pitfall traps, 25.IX-21.X.1988, leg. VOK.

REMARKS. New to the Urals. A European species up to now known in Russia from the Orel Area only [Esyunin et al., 1993].

Moebelia penicillata (Westring, 1851)

MATERIAL. Middle Urals: 1m, environs of Perm City [5], *Pinus* forest with green mosses, 18.VI.1989, leg. SE; 1f, Kachka [6], cultivated meadow, sweeping, 28.VI.1986, leg. ABP.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov, 1980], Ekaterinburg Area [Pakhorkov, 1977]. Middle Urals [Eskov, 1994]: Sarashi [10] [Esyunin et al., 1993], mountainous region [Esyunin, 1991]. South Urals: Bashkiria [Pakhorkov & Efimik, 1988; Eskov, 1994].

Nematogmus sanguinolentus (Walckenaer, 1841)

MATERIAL. Middle Urals: 1m, Spasskaya Gora [8], *Betula* forest, sweeping, 6.VI.1987, leg. SE; 1m, 1f, Preduralie [9], VI.1985, leg. O.A. Sursyakova.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Notioscopus sarcinatus (O. P.-Cambridge, 1872)

MATERIAL. South Urals: 1m, 13f, Tygynskoe [13], *Sphagnum* bog, pitfall traps, 20.VI-1.IX.1993, leg. AA; 1f, Kananikskoe [17], *Pinus-Betula* forest, litter, 9.VIII.1987, leg. VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkov, 1977, 1984; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Oedothorax agrestis (Blackwall, 1853)

MATERIAL. Middle Urals: 1m, 2f, Preduralie [9], river bank, 10.VI.1993, leg. SE & VE. South Urals: 1m, 3f, Tyulyuk [13], river bank, 3.IX.1993, leg. VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991, 1992; Eskov, 1994]. South Urals: Bashkiria [Pakhorkov & Efimik, 1988; Eskov, 1994].

Oedothorax apicatus (Blackwall, 1850)

MATERIAL. Middle Urals: 1f, Dolgoe [5], meadow bog, pitfall traps, 31.V-28.VI.1992, leg. VOK; 4f, left bank of Kama River [5], gravelly bank, pitfall traps, 4.VI-10.VII.1993, leg. VOK; 4f, Kostarevo [5], rye field, pitfall traps, 28.VI-28.VIII.1993, leg. VOK; 11m, 2f, V. Kurya [5], kitchen-garden, pitfall traps, 24.VIII-21.X.1988, leg. VOK; 6m, 18f, Kachka [6], cultivated meadow, 6-19.VIII.1985, leg. APB; 1m, 2f, Iryak [7], river bank, 15.IX.1986, leg. SE; 1f, Spasskaya Gora [8], shrub steppe, 13.V.1989, leg. VOK; 1m, Sarashi [10], gravelly river bank, 26.VI.1991, leg. SE; 1f, Visimskii [11], *Betula* forest, sweeping, 1.VII.1993, TL. South Urals: 3m, 2f, Tyulyuk [near 13], river bank, 3.IX.1993, leg. VE; 2m, 2f, Sterlitamak [near 14], disturbed steppe, VII.1990, D.V. Zeifert; 2m, Troitskii [19], wet salinated land, 15-19.VII.1993, leg. SE; 6f, Uz River [near 19], bank, 3-26.VI.1992-1993, leg. PD & VGN.

CATALOGUE. North Urals [Eskov, 1994]: Perm Area [Kharitonov, 1926, 1928, 1932; Tyschenko, 1971], Komi Republic [Pakhorkov, 1980]. Middle Urals [Eskov, 1994]: mountainous region [Esyunin, 1991, 1992], Ekaterinburg Area [Kharitonov, 1923; Kulczynskiellum].

Oedothorax gibbosus (Blackwall, 1841)

MATERIAL. Middle Urals: 1m, Baseghi [3], meadow, 26.VI.1985, leg. SE; 2f, Visimskii [11], paludal *Betula* forest & multitheraceous meadow, sweeping, 24.VI-7.VII.1993, TL. South Urals: 1f, Bashkirian [16], floodland meadow, 26.VII.1986, leg. VE; 1f, Meleus Distr. [14], river bank, 9.VIII.1991, leg. VE.

CATALOGUE. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov, 1980: *O. tuberosus*], Ekaterinburg Area [Pakhorkov, 1977: *O. g.* + *O. t.*].

Oedothorax retusus (Westring, 1851)

MATERIAL. Polar Urals: 1m, 2f, Khadyta-Yakha [1], wasteland & meadow bog, 30.VI-28.VII.1981-1982, leg.

Middle Urals: 1m, Dolgoe [5], meadow bog, V.1992, leg. VOK; 2f, environs of Perm City [5], *Alnus* thicket with *Urtica*, pitfall traps, 9.V-18.VI.1989, leg. SE; 1m, 1f, Spasskaya Gora [8], alluvium, 16.V.1987, leg. SE; 2m, 5f, Preduralie [9], river bank, 10-18.VI.1993, leg. VE & SE.

CATALOGUE. North Urals: Komi Republic [Pakhorkov, 1980; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: mountainous region [Esyunin & Polyanin, 1990; Eskov, 1994].

Oreonetides vaginatus (Thorell, 1872)

MATERIAL. Cispolar Urals: 4m, 2f, Neroika [2], talus ("kurumy") & dwarf *Betula* stand, 18.VI-22.VIII.1989-1989, leg. YIK & AYM. Middle Urals: 1m, 4f, Visimskii [11], *Betula-Abies* forest, VII.1990, leg. NLU.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Kulczynski, 1916; Eskov, 1985, 1986a, 1988a], Sob River [Tanasevitch, 1985; Eskov, 1988a]. North Urals [Eskov, 1994]: Komi Republic [Pakhorkov, 1980], Ekaterinburg Area [Pakhorkov, 1977, 1984]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Panamomops dybowskii (O. P.-Cambridge, 1873)

MATERIAL. Polar Urals: 1m, Khadyta-Yakha [1], floodland grassy meadow, litter, 15.VIII.1982, leg. SE. Cispolar Urals: 1m, Neroika [2], dwarf *Betula* stand, 3.VIII.1988, leg. AYM; 2m, same locality, Shchekurya River valley, meadow, 22.VIII.1988, leg. AYM. Middle Urals: 19m, 25f, Visimskii [11], *Betula-Abies* forest, VI-IX.1990, leg. NLU.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals: Ekaterinburg Area [Pakhorkov, 1984; Eskov, 1988a, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Panamomops tauricornis (Simon, 1881)

MATERIAL. Middle Urals: 1f, Preduralie [9], limestone denudation, 15.VI.1985, leg. O.A. Sursyakova.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: mountainous region [Esyunin & Polyanin, 1990; Eskov, 1994].

Pelecopsis elongata (Wider, 1834)

Figs 18-19.

MATERIAL. South Urals: 1f, Iremel [13], talus ("kurumy"), 30.VII.1990, leg. ABP.

REMARKS. New to the Urals. In Russia, this pan-European species [Deltshev & Blagoev, 1992] has been recorded in the Leningrad, Voronezh and Murmansk areas [Kharitonov, 1932; Byzova et al., 1986] as well as in Karelia [Uzenbaev, 1986].

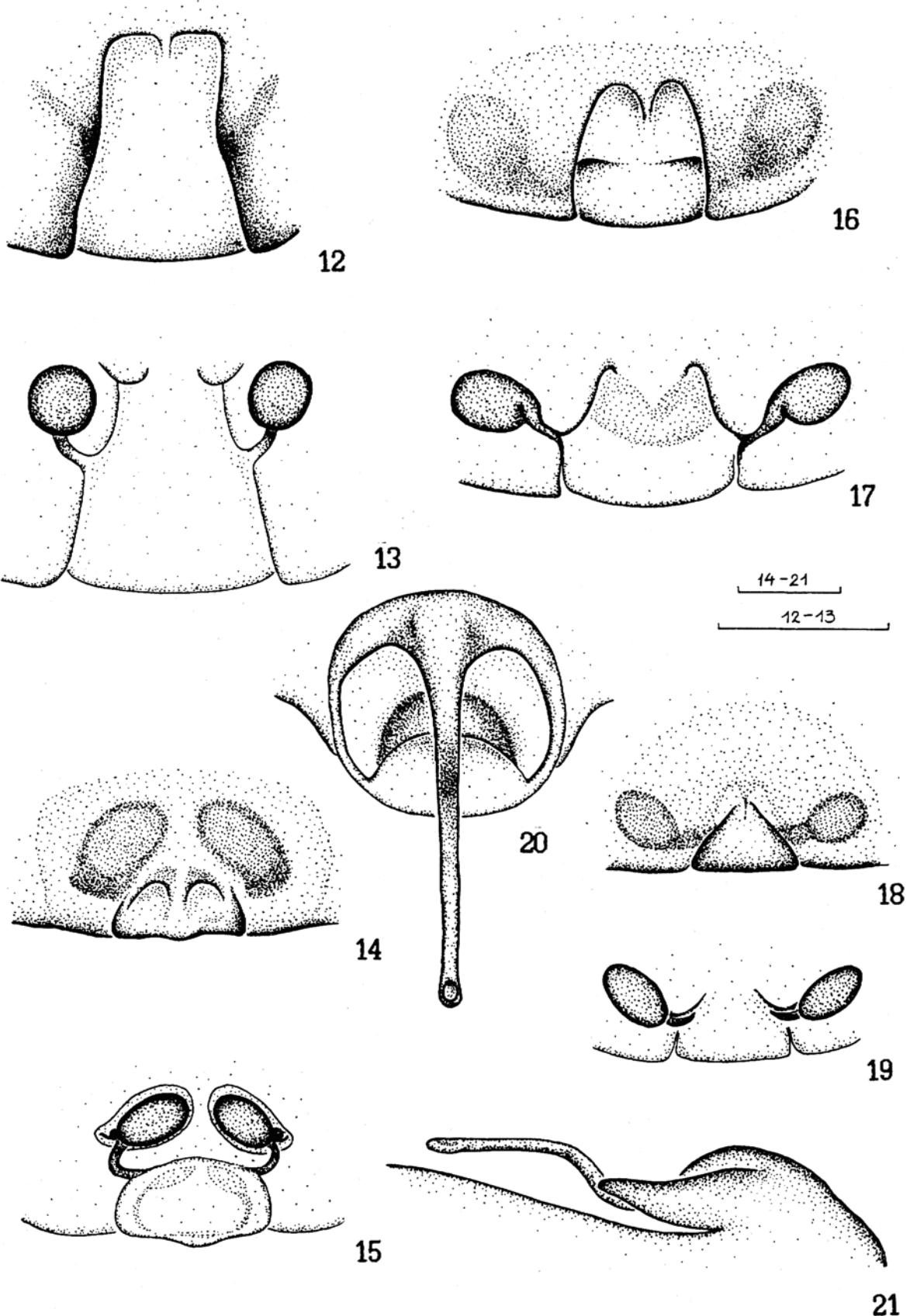
Pelecopsis mengei (Simon, 1884)

MATERIAL. Cispolar Urals: 12m, 13f, Neroika [2], 700-950 m alt., talus ("kurumy"), montane tundra & montane meadow, 18.VI-24.VII.1989-1990, leg. YIK & AYM; 7m, 7f, same locality, Shchekurya River valley, meadow, 25.VI.1989, leg. YIK & AYM. Middle Urals: 2m, 1f, environs of Perm City [5], *Alnus* thicket with *Urtica*, 14.V.1989, leg. SE.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Eskov, 1986a, 1988a], Sob River [Ta-

Figs 12-21. Genitalia of *Peponocranium ludicum* (O. P.-Cambridge, 1861) (12-13), *P. orbiculatum* (O. P.-Cambridge, 1882) (14-15), *Trichopterna thorelli* (Westring, 1861) (16-17), *Pelecopsis elongata* (Wider, 1834) (18-19) and *Centromerus levitarsus* (Simon, 1884) (20-21): 12,14,16,18,20 — epigyne, ventral; 13,15,17,19 — vulva; 21 — epigyne, lateral. Scale 0.1 mm.

Рис. 12-21. Гениталии *Peponocranium ludicum* (O. P.-Cambridge, 1861) (12-13), *P. orbiculatum* (O. P.-Cambridge, 1882) (14-15), *Trichopterna thorelli* (Westring, 1861) (16-17), *Pelecopsis elongata* (Wider, 1834) (18-19) и *Centromerus levitarsus* (Simon, 1884) (20-21): 12,14,16,18,20 — эпигина, вид снизу; 13,15,17,19 — вульва; 21 — эпигина, вид сбоку. Масштаб 0,1 мм.



nasevitch, 1985]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; *Trichopterna*; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1990, 1991; Gridina, 1992; T.; Eskov, 1994]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Eskov, 1994].

Pelecopsis parallelala (Wider, 1834)

MATERIAL. Cispolar Urals: 3m, 8f, Neroika [2], 700-950 m alt., grass-mossy tundra, dwarf *Betula* stand & montane meadow, pitfall traps, 24.VI-6.VII.1989-1990, leg. YIK & AYM. South Urals: 2m, 2f, Shulgan-Tash [15], montane steppe, 1.VI-1.IX.1989, leg. VE.

CATALOGUE. South Urals: Chelyabinsk Area [Esyunin & Pakhorukov, 1992; Eskov, 1994].

Peponocranium ludicum (O.P.-Cambridge, 1861)

Figs 12-13.

MATERIAL. South Urals: 1f, Shulgan-Tash [15], *Populus tremula* forest, 2.IX.1989, leg. VE.

REMARKS. New to the Urals. In Russia, this European species has been recorded only in the Moscow Area [Beer, 1968].

Peponocranium orbiculatum (O.P.-Cambridge, 1882)

Figs 14-15.

MATERIAL. South Urals: 1f, Bashkirian [16], floodland meadow, 5.VIII.1986, leg. VE.

REMARKS. New to the Russian fauna! This species is distributed in Middle and South Europe [Heimer & Nentwig, 1991] as well as in the Caucasus [Tanasevitch, 1990a].

Perregrinus deformis (Tanasevitch, 1982)

MATERIAL. Polar Urals: 3m, 4f, Khadyta-Yakha [1], disturbed *Artemisia* patch, litter, 1982, leg. SE.

CATALOGUE. Polar Urals: environs of Vorkuta City, Sob River [Tanasevitch, 1982, 1985; Eskov, 1988a, 1994].

Pocadicnemis pumilla (Blackwall, 1841)

MATERIAL. Middle Urals: 3m, Dolgoe [5], meadow bog, pitfall traps, 1.V-4.VI.1992, leg. VOK; 4m, 2f, environs of Perm City [5], meadow of *Calamagrostis* and other herbs, *Alnus* thicket with *Urtica*, pitfall traps, 18.VI-7.VII.1987, leg. SE; 1f, Visimskii [11], paludal *Betula*-*Picea* forest, 30.VII.1990, leg. NLU. South Urals: 3m, 2f, Tygynskoe [13], *Sphagnum* bog & *Picea* forest, 20.VI-1.IX.1993, leg. AA & VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992].

Praestigia pini (Holm, 1950)

MATERIAL. Polar Urals: 1m, Khadyta-Yakha [1], floodland meadow, sweeping on vegetation, 17.VIII.1981, leg. SE.

CATALOGUE. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Esyunin & Pakhorukov, 1992].

Pseudocyba miracula Tanasevitch, 1984

MATERIAL. Polar Urals: 36m, 146f, Khadyta-Yakha [1], disturbed *Artemisia* patch, litter, VII.1981, leg. SE. Middle Urals: 1m, Preduralie [9], 14.VI.1982, coll. ?

CATALOGUE. Polar Urals: Vorkuta Distr. [Tanasevitch, 1984b; Eskov, 1985, 1988a, 1994].

Savignya frontata Blackwall, 1833

MATERIAL. Middle Urals: 3m, Dolgoe [5], meadow bog, V-VI.1992, leg. VOK.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Savignya producta Holm, 1977

MATERIAL. Middle Urals: 1m, 2f, Preduralie [9], 1982, coll. ? South Urals: 1m, Zilair Distr. [17], wet meadow, 15.VIII.1987, leg. VE; 2m, Syrtlanovo [14], *Betula* wood-meadow & *Acer*-*Quercus* forest, 23.VI-1.VIII.1990, leg. VE.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1988a; Eskov, 1994]. North Urals: Komi Republic [Eskov, 1988b; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Esyunin & Novokshenov, 1992; Eskov, 1994].

Scotinotylus alpinus (L. Koch, 1869)

MATERIAL. Middle Urals: 9m, 2f, environs of Perm City [5], *Pinus* forest with green mosses, pitfall traps, 22.IX.1988-15.I.1989, leg. SE; 1f, Spasskaya Gora [8], steppe *Pinus* forest, 17.VI.1989, leg. VOK; 9f, Preduralie [9], *Pinus* forest with green mosses, litter, 9-12.VII.1989, leg. TIGr; 4m, 6f, Visimskii [11], 1989, leg. NLU. South Urals: 3f, Iremel [13], *Picea* forest, litter, 1.VI.1989, leg. ABP.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, Sapkei [Eskov, 1986a, 1988a], Sob River [Tanasevitch, 1985]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Silometopus elegans (O. P.-Cambridge, 1872)

MATERIAL. Middle Urals: 1m, 4f, Dolgoe [5], meadow bog, pitfall traps, 31.V-28.VI.1992, leg. VOK.

REMARKS. New to the Urals. This species possesses a Siberio-European distribution pattern [Tanasevitch, 1990a].

Silometopus incurvatus (O. P.-Cambridge, 1873)

MATERIAL. Polar Urals: 2f, Khadyta-Yakha [1], floodland meadow & disturbed *Artemisia* patch, 23.VI-6.VII.1982, leg. SE. Middle Urals: 1f, V. Kurya [5], *Pinus* forest, pitfall traps, 26.V-9.VI.1990, leg. VOK.

CATALOGUE. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992; Polyanin & Lagunov, 1992].

Silometopus reussi (Thorell, 1871)

MATERIAL. Middle Urals: 2m, 1f, Dolgoe [5], meadow bog, V.1992, leg. VOK; 1f, left bank of Kama River [5], gravelly bank, pitfall traps, 4.VI-10.VII.1993, leg. VOK; 6m, 1f, V. Kurya [5], *Pinus* forest & kitchen-garden, pitfall traps, 1.X.1989-26.V.1990, leg. VOK; 1f, Kachka [6], cultivated meadow, 6.VI.1987, leg. ABP.

REMARKS. New to the Urals. This species possesses a temperate trans-Palearctic distribution pattern.

Stemonyphantes conspersus (L. Koch, 1879)

MATERIAL. Polar Urals: 1f, Khadyta-Yakha [1], floodland mixed forest, 25.VI.1982, leg. SE. Middle Urals: 1f, V. Kurya [5], kitchen-garden, 21.X.1988, leg. VOK; 1m, 3f, Preduralie [9], 10.VI-5.VIII.1982, O.A. Sursykova. South Urals: 4f, Iremel [13], *Picea* forest, 30.VII-31.VIII.1993, leg. VE; 1f, Nurgush [13], *Picea* forest, date ?, leg. ABP.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

REMARKS. The record of this species in the Chelyabinsk Area by Polyanin & Pakhorukov [1988] is erroneous.

Tallusia experta (O. P.-Cambridge, 1871)

MATERIAL. Middle Urals: 1m, 1f, Dolgoe [5], meadow bog, pitfall traps, 2.V-4.VI.1993, leg. VOK; 2m, 4f, environs of Perm City [5], *Alnus* thicket with *Urtica*, V.1989, leg. SE; 4m, 6f, right bank of Kama River [5], wet meadow, pitfall traps, 22.IV-19.V.1991, leg. VOK; 1m, 3f, Visimskii [11], multiherbaceous meadow, IX.1992, leg. NLU. South Urals: 8f, Troitskii [19], reedy shore of lake, 5-12.VI.1992, leg. PD.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; *Centromerus*; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; C.; Eskov, 1994]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; C.; Eskov, 1994].

Tapinocyba biscissa (O. P.-Cambridge, 1872)

MATERIAL. Middle Urals: 1m, Dolgoe [5], meadow bog, V.1992, leg. VOK; 1f, environs of Perm City [5], *Alnus* thicket with *Urtica*, 9.V.1989, leg. SE; 3m, 3f, V. Kurya [5], sandy plots, pitfall traps, 22.IV-30.V.1990, leg. VOK; 1m, 2f, right bank of Kama River [5], wet meadow, 28.IV-30.V.1993, leg. VOK; 1m, 1f, Spasskaya Gora [8], steppe *Pinus* forest, 16.V-3.VI.1990, leg. VOK; 1m, 5f, Kungur Distr., Zarubino [near 8], multiherbaceous *Betula* forest, litter, 11.VI.1994, leg. SE; 6f, Preduralie [9], coniferous & *Tilia*-*Picea* forests, litter, 27.VI-17.VII.1987, leg. TIGr; 3m, 1f, Sarashi [10], *Pinus* forest, pitfall traps, 6.V-1.VI.1991, leg. VOK. South Urals: 1f, Shulgan-Tash [15], montane steppe, 2.VIII.1989, leg. VE.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: Chelyabinsk Area [Esyunin & Pakhorukov, 1992; Eskov, 1994].

Tapinocyba insecta (L. Koch, 1869)

MATERIAL. Middle Urals: 3f, Spasskaya Gora [8], of *Tilia*-*Betula* forest, steppe *Pinus* forest & shrubby steppe, 30.IV-17.VI.1989, leg. VOK; 18m, 25f, Preduralie [9], *Tilia* & *Tilia*-*Picea* forests, litter, 24.VI-9.IX.1987, leg. TIGr; 3m, 4f, Visimskii [11], *Betula*-*Abies* forest, VI.1991, leg. NLU. South Urals: 1f, Bashkirian [16], *Pinus* forest with green mosses, 17.VII.1988, leg. VE; 1f, Bekeshovo [18], *Betula* wood-meadow, 30.VII.1987, leg. VE; 2f, Tyulyuk [near 13], *Pinus* forest, mosses, 3.IX.1993, leg. VE.

CATALOGUE. South Urals: Chelyabinsk Area [Polyanin & Pakhorukov, 1988; Eskov, 1994].

Tapinocyboides pygmaea (Menge, 1869)

MATERIAL. Middle Urals: 2m, environs of Perm City [5], meadow of *Calamagrostis* and other herbs, 17.V.1987, leg. SE; 6m, 2f, Spasskaya Gora [8], *Betula* & *Tilia*-*Betula* forests, steppe, pitfall traps, 24.V-20.VI.1989, leg. VOK; 2m, 1f, Preduralie [9], forest meadow, litter, 14.VI.1983, coll. ?; 1m, Sarashi [10], *Pinus* forest, V.1991, leg. VOK. South Urals: 1m, 3f, Bashkirian [16], floodland meadow, 9-20.VI.1988, leg. VE.

CATALOGUE. North Urals: Komi Republic [Pakhorukov, 1979; Eskov, 1994]. South Urals: Chelyabinsk Area [Esyunin & Pakhorukov, 1992; Eskov, 1994].

Tapinopa longidens (Wider, 1834)

MATERIAL. Middle Urals: 1m, 2f, environs of Perm City [5], *Pinus* forest with green mosses, pitfall traps, 21.VIII-6.IX.1988, leg. SE; 1f, Kultaev [near 5], *Pinus*-*Picea* forest, 19.IX.1990, leg. VOK; 1m, 3f, Spasskaya Gora [8], *Betula* & *Betula*-*Tilia* forests, 22.VIII-19.IX.1988, leg. VOK; 3m, 14f, Preduralie [9], *Betula* & *Picea* forests, litter, 27.VI-17.VIII.1990, leg. TIGr; 2f, Visimskii [11], VII.1991, leg. NLU.

CATALOGUE. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988; Esyunin et al., 1993], Chelyabinsk Area [Utochkin & Golovashkina, 1977; Pakhorukov, 1985; Polyanin & Pakhorukov, 1988; Esyunin & Pakhorukov, 1992].

Thyreosthenius biovatus (O.P.-Cambridge, 1875)

MATERIAL. Middle Urals: 3f, Preduralie [9], *Betula* forest, litter, 22.V-17.IX.1988, leg. TIGr. South Urals: 6f, Syrtlanovo [14], broadleaved forest, 23.VI-3.IX.1990, leg. VE.

CATALOGUE. South Urals: Bashkirian [16] [Esyunin et al., 1993; Eskov, 1994].

Thyreostenius parasiticus (Westring, 1851)

MATERIAL. Middle Urals: 2m, Perm City [5], recreation park, *Betula* forest, 21.X.1987, leg. SE; 1f, V. Kurya [5], *Pinus* forest with *Chamaenerium angustifolium*, on tree trunk, 30.V.1993, leg. SE; 1f, Kachka [6], cultivated meadow, 20.VIII.1986, leg. APB.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals: mountainous region [Esyunin & Polyanin, 1990; Eskov, 1994].

Tibioplus diversus (L. Koch, 1879)

MATERIAL. Middle Urals: 12m, environs of Perm City [5], *Pinus* forest with green mosses, pitfall traps, 6.IX-30.X.1988, leg. SE; 1m, Kultaev [near 5], *Pinus*-*Picea* forest, 19.IX.1990, leg. VOK; 2f, Spasskaya Gora [8], steppe *Pinus* forest, 1.XI.1987 and 3.VI.1990, leg. VOK; 3f, Preduralie [9], coniferous & *Picea*-*Tilia* forest, 30.V-15.VI.1987, leg. TIGr; 8m, 12f, Visimskii [11], *Betula*-*Abies* forest, IX.1989, leg. NLU. South Urals: 1m, Bashkirian [16], *Pinus* forest with *Calamagrostis*, litter, 21.VIII.1988, leg. VE.

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River [Eskov, 1988a], Sob River [Tanasevitch, 1985]. North Urals [Eskov, 1994]: Komi Republic [Pakhorukov, 1979], Ekaterinburg Area [Pakhorukov, 1977, 1979, 1984]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: mountainous region [Esyunin & Polyanin, 1990], Chelyabinsk Area [Polyanin & Pakhorukov, 1988].

Trematocephalus cristatus (Wider, 1834)

MATERIAL. Middle Urals: 1m, V. Kurya [5], kitchen-garden, 8.VI.1993, leg. VOK; 1f, Kachka [6], *Betula* forest, 24.V.1994, leg. SE; 2m, 1f, Spasskaya Gora [8], *Betula*, *Tilia* & *Betula*-*Tilia* forests, pitfall traps, 6.VI-15.IX.1988, leg. VOK; 2m, Kungur Distr., Zarubino [near 8], *Betula* forest, litter, 11.VI.1994, leg. SE; 4m, 1f, Preduralie [9], *Picea* forest with green mosses, *Betula* forest, 15-18.VI.1987, leg. TIGr.

CATALOGUE. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Pakhorukov & Polyanin, 1987; *T. c.* + *Zornella cultrigera*; Polyanin & Lagunov, 1992].

Trichoncus affinis Kulczyński, 1894

MATERIAL. South Urals: 1f, Bashkirian [16], montane steppe, 29.VI.1988, leg. VE.

CATALOGUE. South Urals: Chelyabinsk Area [Pakhorukov, 1985; Esyunin & Pakhorukov, 1992; Eskov, 1994].

Trichoncus auritus (L. Koch, 1869)

Figs 22-29.

MATERIAL. South Urals: 1m, 2f, Syrtlanovo [14], stony steppe, 22.VIII-2.IX.1990, leg. VE.

REMARKS. New to the Urals. In Russia, this European species [Denis, 1965] has been recorded in the Samara Area [Krasnobaev & Matveyev, 1993]. The recent record of a *Trichoncus* sp. in the S-Urals [Esyunin et al., 1993] actually refers to this species.

Trichoncus vasconicus Denis, 1944

MATERIAL. South Urals: 1f, Syrtlanovo [14], *Stipa-Artemisia* steppe, 20.VI.1990, leg. VE; 1m, 5f, Bashkirian [16], montane steppe, dry meadow & *Betula* forest, 12.VI-25.VII.1988, leg. VE.

REMARKS. New to the Urals. This species is widespread in Europe [Brignoli, 1983], Caucasus [Tanasevitch, 1990a], E-Kazakhstan and South Siberia (Buryatia) [Eskov, 1992b].

Trichopterna cito (O. P.-Cambridge, 1872)

MATERIAL. Middle Urals: 1m, environs of Perm City [5], meadow of *Calamagrostis* and other herbs, litter, 21.VIII.1988, leg. SE. South Urals: 2m, 6f, Syrtlanovo [14], steppe meadow, stony and *Caragana* shrubby steppe, 22.VI-2.IX.1990, leg. VE; 2f, Shulgash-Tash [15], meadow and *Caragana* shrubby steppe, 11.VI-3.VII.1989, leg. VE; 3f, Bashkirian [16], montane steppe, 19.VI-20.VII.1988, leg. VE.

CATALOGUE. South Urals [Eskov, 1994]: Chelyabinsk Area [Pakhorukov et al., 1983; Pakhorukov, 1985; Esyunin & Pakhorukov, 1992].

Trichopterna thorelli (Westring, 1861)

Figs 16-17.

MATERIAL. Polar Urals: 4f, Khadyta-Yakha [1], floodland meadow, 6.VII-7.VIII.1982, leg. SE.

REMARKS. New to the Urals. In Russia, this pan-European species [Bonnet, 1956] has been recorded in Tuva [Eskov, 1992b].

Troxochrus scabriculus (Westring, 1851)

MATERIAL. Middle Urals: 3m, 1f, environs of Perm City [5], *Alnus* thicket with *Urtica*, V.1989, leg. SE.

CATALOGUE. North Urals [Pakhorukov, 1979; Eskov, 1994]. South Urals [Eskov, 1994]: Bashkiria [Pakhorukov & Efimik, 1988], Chelyabinsk Area [Polyanin & Pakhorukov, 1988; Esyunin & Polyanin, 1990; Esyunin & Pakhorukov, 1992].

Typhochrestus digitatus (O. P.-Cambridge, 1872)

Figs 7-11.

MATERIAL. Middle Urals: 127m, 27f, V. Kurya [5], sandy plots, pitfall traps, 1.X.1989-3.V.1990, leg. VOK.

REMARKS. This is the second record of this species in Urals [Eskov & Marusik, 1993; Eskov, 1994]. The range of this species covers South and Middle Europe [Bonnet, 1959].

Walckenaeria (Wideria) antica (Wider, 1834)

MATERIAL. Cispolar Urals: 1m, Neroika [2], montane meadow, 20.VI.1989, leg. AYM; 1f, same locality, Shchekurya River valley, *Betula* forest, 2.VIII.1988, leg. YIK. Middle Urals: 10m, 1f, Dolgoe [5], meadow bog, V.1992, leg. VOK; 6m, 7f, environs of Perm City [5], meadow, *Cerasus* shrub on S slope & *Pinus* forest, 10.V-7.X.1987, leg. SE; 5m, V. Kurya [5], *Pinus* forest & kitchen-garden, pitfall traps, 21.IV-9.VI.1990, leg. VOK; 1f, same locality, kitchen-garden, 21.X.1988, leg. VOK; 2f, Spasskaya Gora [8], shrubby steppe, *Betula* & *Betula-Tilia*

forests, pitfall traps, 13.V-25.VII.1988, leg. VOK; 1f, Kungur Distr., Zarubino [near 8], *Betula* forest, litter, 11.VI.1994, leg. SE; 1m, 1f, Preduralie [9], *Pinus* & *Picea-Tilia* forests, 20.V-12.VI.1989, leg. TIGR; 1f, Iryak [7], *Pinus* forest, litter, 12.IX.1986, leg. SE. South Urals: 1m, Ilmenskii [12], *Pinus* forest with *Vaccinium vitis-idaea* and green mosses, 2.IX.1986, leg. ABP; 1f, Tygynskoe [13], *Sphagnum* bog, pitfall traps, 20.VI-28.VII.1993, leg. AA.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1994]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals [Eskov, 1994]: Sarashi [10] [Esyunin et al., 1993], mountainous region [Esyunin, 1991]. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Esyunin et al., 1993; Eskov, 1994].

Walckenaeria (Parawideria) atrotibialis O. P.-Cambridge, 1878

MATERIAL. Middle Urals: 2m, 2f, Spasskaya Gora [8], steppe *Pinus* forest, pitfall traps, 17.VI-12.VII.1989, leg. VOK; 1f, same locality, 26.IX.1990, leg. VOK; 1m, 2f, Kungur Distr., Zarubino [near 8], *Betula* forest, litter, 11.VI.1994, leg. SE; 3m, 5f, Preduralie [9], *Picea* & *Picea-Tilia* forests, 30.V-30.VI.1987, leg. TIGR. South Urals: 1f, Shulgash-Tash [15], broadleaved forest, 12.VIII.1989, leg. VE.

CATALOGUE. Middle Urals [Eskov, 1994]: Sarashi [10] [Esyunin et al., 1993], mountainous region [Esyunin, 1991]; *W. melanocephala*. South Urals: Chelyabinsk Area [Pakhorukov & Polyanin, 1987: *Wideria m.*; Polyanin & Pakhorukov, 1988: *W. m.*; Esyunin & Pakhorukov, 1992; Eskov, 1994].

Walckenaeria (Wideria) capito (Westring, 1861)

MATERIAL. Middle Urals: 1m, Preduralie [9], limestone denudation, 17.X.1993, leg. SE.

CATALOGUE. Polar Urals: Sob River [Tanasevitch, 1985; Eskov, 1988a; Eskov, 1994]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Walckenaeria (Cornicularia) cuspidata (Blackwall, 1833)

MATERIAL. Polar Urals: 1f, Khadyta-Yakha [1], shore of lake, 19.VII.1981, leg. SE. Cispolar Urals: 3f, Neroika [2], 700 m alt., dwarf *Betula* stand, pitfall traps, 13.VI-10.VII.1989, leg. YIK & AYM. Middle Urals: 1m, Sarashi [10], *Pinus* forest, V.1991, leg. VOK; 1m, Visimskii [11], paludal *Betula-Picea* forest, 4.VI.1990, leg. NLU; 1f, same locality, 17.IX.1990, leg. NLU.

CATALOGUE. Polar Urals: northern Tyumen Area [Eskov, 1986a, 1994]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Walckenaeria (Tigellinus) furcillata (Menge, 1869)

MATERIAL. South Urals: 1m, Shulgash-Tash [15], *Caragana* shrub steppe, 14.VI.1989, leg. VE; 1f, same locality, 5.VIII.1989, leg. VE.

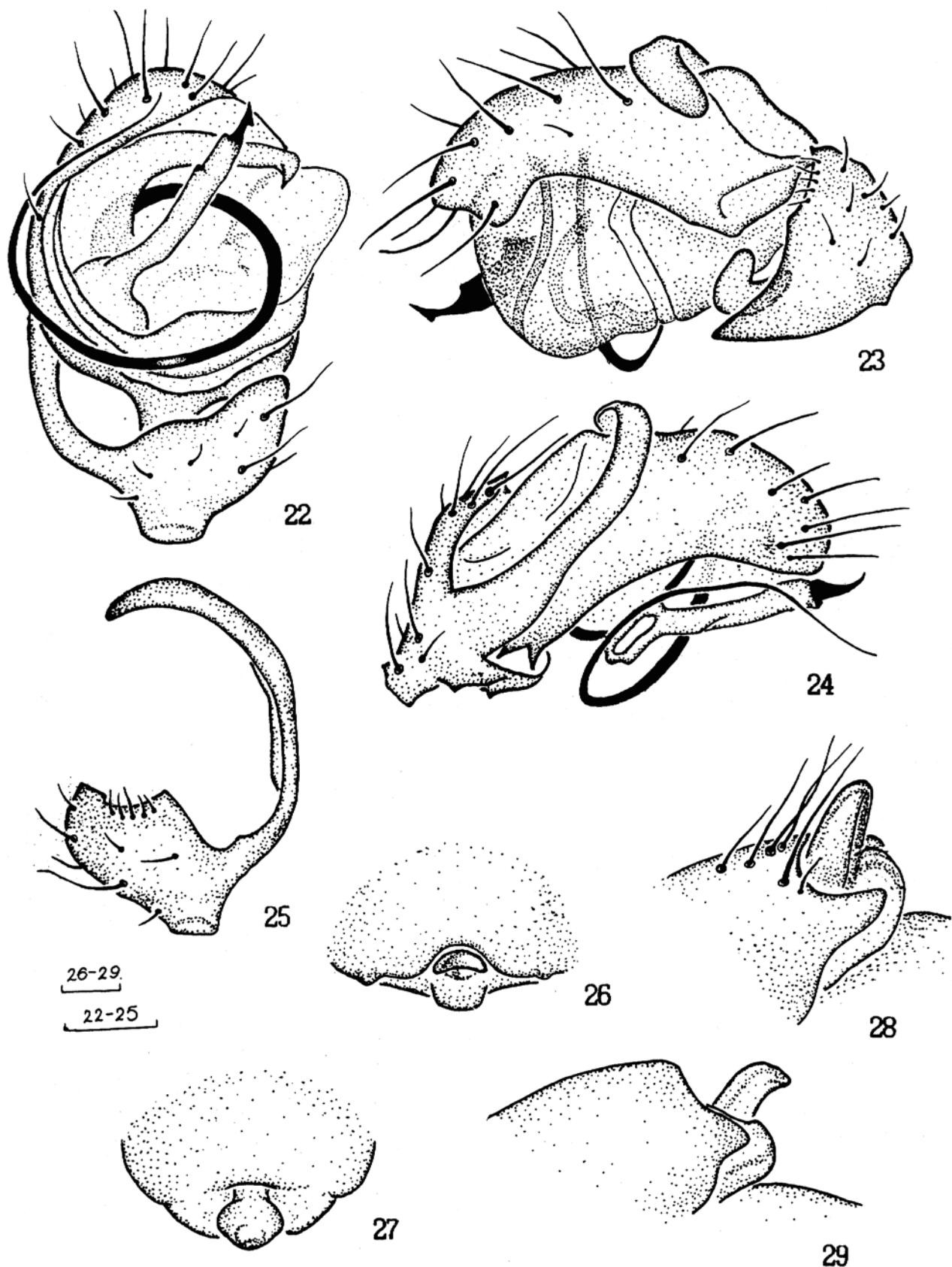
CATALOGUE. South Urals: Chelyabinsk Area [Pakhorukov, 1985; Esyunin & Pakhorukov, 1992; Eskov, 1994].

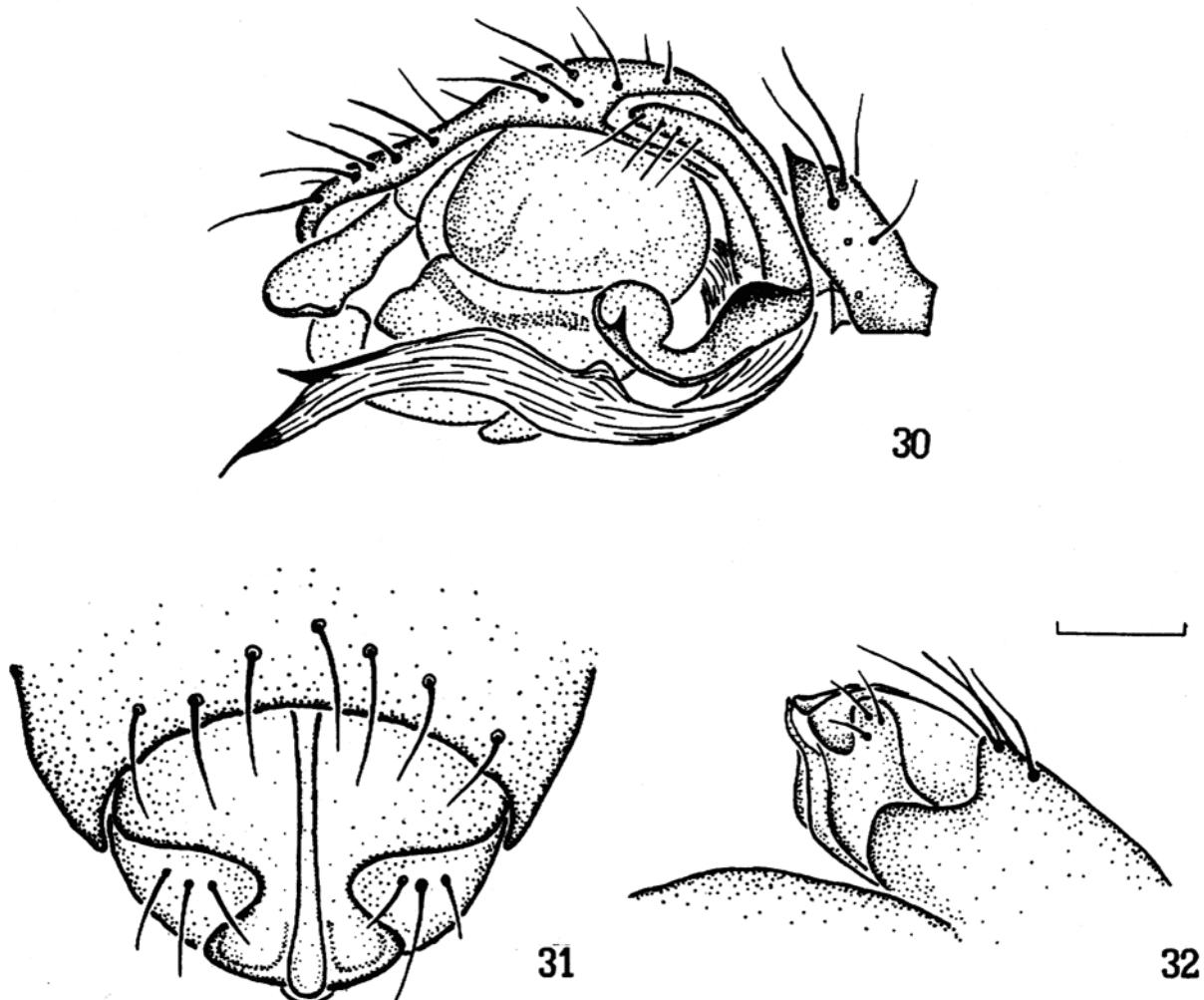
Walckenaeria (Cornicularia) kochi (O. P.-Cambridge, 1872)

MATERIAL. Middle Urals: 1f, Dolgoe [5], meadow

Figs 22-29. Genitalia of *Trichoncus auritus* (L. Koch, 1869): 22 — male palp, ventral; 23 — same, ectal; 24 — same, mesal; 25 — tibia, dorsal; 26,27 — epigyne, ventral; 28,29 — same, lateral. Scale 0.1 mm.

Rис. 22-29. Гениталии *Trichoncus auritus* (L. Koch, 1869): 22 — пальпа самца, вид снизу; 23 — то же, ретролатеральный вид; 24 — то же, пролатеральный вид; 25 — голень, вид сверху; 26, 27 — эпигина, вид снизу; 28,29 — то же, вид сбоку. Масштаб 0,1 мм.





Figs 30-32. Genitalia of *Leptphyphantes quadrimaculatus* Kulczyński, 1898: 30 — male palp, ectal; 31 — epigyne, ventral; 32 — same, lateral. Scale 0.1 mm.

Рис. 30-32. Гениталии *Leptphyphantes quadrimaculatus* Kulczyński, 1898: 30 — пальпа самца, ретролатеральный вид; 31 — эпигина, вид снизу; 32 — то же, вид сбоку. Масштаб 0,1 мм.

bog, pitfall traps, 15.VII-21.IX.1991, leg. VOK; 1m, environs of Perm City [5], *Alnus* thicket with *Urtica*, 9.V.1989, leg. SE.

CATALOGUE. Polar Urals: Shchuchya River [Eskov, 1986a; 1988a, 1994]. North Urals: Komi Republic [Pakhorukov, 1979; Eskov, 1994].

Walckenaeria (Wideria) mitrata (Menge, 1868)

MATERIAL. Middle Urals: 5m, Kachka [6], *Betula* forest, 24.V.1994, leg. SE. South Urals: 1f, Tyulyuk [near 13], river bank, 3.IX.1993, leg. VE.

CATALOGUE. South Urals: Bashkiria [Pakhorukov & Efimik, 1988; Eskov, 1994].

Walckenaeria (Wideria) nodosa O. P.-Cambridge, 1873

MATERIAL. Cispolar Urals: 2f, Shchekurya River valley [2], 450 m alt., meadow, pitfall traps, 25.VI-10.VII.1989, leg. YIK & AYM. Middle Urals: 1m, right bank of Kama River [5], wet meadow, pitfall traps, 1.X.1989-22.IV.1990, leg. VOK; 1f, Visimskii [11], 1989, leg. NLU.

CATALOGUE. Polar Urals: environs of Vorkuta City [Eskov, 1986a, 1994]. North Urals: Ekaterinburg Area [Pakhorukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994].

Walckenaeria (Trachynella) nudipalpis (Westring, 1851)

MATERIAL. Cispolar Urals: 1f, Neroika [2], meadow, 15.VI.1989, leg. AYM. Middle Urals: 1m, Perm City [5], recreation park, *Betula* forest, 21.X.1987, leg. SE; 3f, Dolgoe [5], meadow bog, pitfall traps, 31.V-28.VI.1992, leg. VOK; 1m, environs of Perm City [5], meadow of *Calamagrostis* and other herbs, 8.VI.1987, leg. SE; 3f, Visimskii [11], *Betula*-*Picea* and *Abies*-*Picea* forests, litter, IX.1990, leg. NLU. South Urals: 1f, Troitskii [19], reedy shore of lake, 24.VI.1992, leg. PD.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorukov, 1977, 1984; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Gridina, 1992; Eskov, 1994].

Walckenaeria (Trachynella) obtusa Blackwall, 1836

MATERIAL. Middle Urals: 1f, Perm City [5], recreation park, *Betula* forest, 6.VI.1994, leg. SE; 1m, Visimskii [11], 1989, leg. NLU.

REMARKS. New to the Urals. In Russia, this European species [Bonnet, 1959] has been reported from Karelia [Tsellarus & Shorokhov, 1985], Moscow Area [Mikhailov, 1983], Mariyskaya (= Mari-El) Republic

[Krasnobaev & Matveyev, 1993] as well as Khabarovsk and Maritime Prov. [Eskov & Marusik, 1993].

Walckenaeria (Wideria) picetorum (Palmgren, 1976)

MATERIAL. Middle Urals: 2f, Visimskii [11], *Betula-Pinus* forest, IX.1990, leg. NLU.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkukov, 1977, 1979; Eskov, 1994].

Walckenaeria (Cornicularia) unicornis O.P.-Cambridge, 1861

MATERIAL. Polar Urals: 1f, Khadyta-Yakha [1], floodland mixed forest, 25.VII.1981, leg. SE. Middle Urals: 2m, Dolgoe [5], meadow bog, V.1992, leg. VOK; 1m, environs of Perm City [5], *Alnus* thicket with *Urtica*, 18.VI.1989, leg. SE; 1m, Spasskaya Gora [8], alluvium on river bank, 21.V.1988, leg. SE; 1f, Visimskii [11], 1985, leg. NLU. South Urals: Bashkirian [16], *Betula* & *Pinus* forests, 2-14.VII.1988, leg. VE; 1f, Bekeshevo [18], floodland meadow, 29.VII.1987, leg. VE.

CATALOGUE. North Urals: Ekaterinburg Area [Pakhorkukov, 1977; Eskov, 1994]. Middle Urals: mountainous region [Esyunin, 1991; Eskov, 1994]. South Urals [Eskov, 1994]: Chelyabinsk Area [Pakhorkukov, 1985; Pakhorkukov & Polyanin, 1987; Polyanin & Pakhorkukov, 1988; Esyunin & Pakhorkukov, 1992].

Walckenaeria (Walckenaeria) vigilax (Blackwall, 1853)

MATERIAL. Middle Urals: 7m, 2f, Dolgoe [5], meadow bog, pitfall traps, 2.V-28.VI.1992, leg. VOK; 1m, right bank of Kama River [5], wet meadow, sweeping on vegetation, 30.V.1993, leg. SE, VE & VOK; 1m, Spasskaya Gora [8], steppe, litter, 19.IX.1987, leg. VOK; 1f, Preduralie [9], 1982, coll. ? South Urals: 1m, Troitskii [19], wet salina, 1.VII.1993, leg. SE.

CATALOGUE. South Urals: mountainous region [Esyunin & Polyanin, 1990; Eskov, 1994].

Wubanoides uralensis (Pakhorkukov, 1981)

MATERIAL. Middle Urals: 10m, 21f, Preduralie [9], coniferous forest, shrub, 10.VI.1988, leg. SE; 3f, Visim [11], *Picea-Abies* forest, under bark of dead tree, 18.VIII.1994, leg. SE.

CATALOGUE. Polar Urals: Sob River, environs of Vorkuta City [Tanasevitch, 1985; *W. longicornis*; Eskov, 1986b; *W. l.*, 1988a: lit.: *W. l.*, 1994; Eskov & Marusik, 1992a]. North Urals: Komi Republic [Pakhorkukov, 1981; *Veles uralensis* + *V. wagae*; Eskov, 1986b; *W. l.*, 1988a; *W. l.*, 1994; Eskov & Marusik, 1992a]. Middle Urals: mountainous region [Esyunin, 1991; *W. l.*; Eskov & Marusik, 1992a; Eskov, 1994]. South Urals: Bashkiria [Pakhorkukov & Efimik, 1988; *V. w.*; Eskov, 1994].

Zornella cultrigera (L. Koch, 1879)

MATERIAL. Middle Urals: 1f, Visimskii [11], 1989, leg. NLU. South Urals: 1f, Iremel [13], date & coll. ?

CATALOGUE. Polar Urals [Eskov, 1994]: Shchuchya River, environs of Vorkuta City [Eskov, 1986a], Sob River [Tanasevitch, 1985]. North Urals: Ekaterinburg Area [Pakhorkukov, 1977, 1979, 1984; Eskov, 1994].

REMARKS. The records of this species in the Chelyabinsk Area [Pakhorkukov & Polyanin, 1987; Polyanin & Pakhorkukov, 1988] are erroneous.

VI. Acknowledgements

We are most grateful to all colleagues who supplied us with their materials. We wish to particularly acknowledge the help of Dr. S.I. Golovatch (Moscow), who kindly checked the English of an

earlier draft. This project has been supported in part by Mr. Soros' International Science Foundation.

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