

# Additions to the aphid fauna of West Siberia (Homoptera: Aphidinea)

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Stekolshchikov, A.V., Gavrilyuk, A.V. & Novgorodova, T.A. 2008. Additions to the aphid fauna of West Siberia (Homoptera: Aphidinea). *Zoosystematica Rossica*, 17(1): 57-59.

For the first time, *Pemphigus mongolicus* Holman et Szelegiewicz, 1974, *Brachycaudus (Appelia) tragopogonis setosus* (Hille Ris Lambers, 1948), *Brachycaudus (Nevskyaphis) bicolor* (Nevsky, 1929), *Diuraphis (Holcaphis) agrostidis* (Muddathir, 1965), *Macrosiphoniella atra atra* (Ferrari, 1872) and *Sitobion miscanthi* (Takahashi, 1921) are recorded from Russia and another 23 species and 4 subspecies from Western Siberia.

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After 5 years of research (2003-2007) in Novosibirsk and Kurgan provinces as well as in Altai, 27 aphid species and six subspecies new to the territory of West Siberia were recorded. Four of those species and two subspecies (marked with\*) were noted on the territory of Russia for the first time. The data presented extends our knowledge on distribution areas of Palearctic aphid species and degree of similarity of aphidofauna of different parts of Eurasia.

## Superfamily APHIDOIDEA

### Family PEMPHIGIDAE

\**Pemphigus mongolicus* Holman et Szelegiewicz, 1974. *Altai Republic*: apt. and al., Kosh-Agach Distr., confluence of rivers Chuya and Kuitkanar, 30.VII.2007, *Populus* sp., in roundish gall on the base of leaf near the petiole (V.S. Sorokina).

### Family CHAITOPHORIDAE

*Chaitophorus horii beuthani* (Börner, 1950). *Novosibirsk Prov.*: apt., Karasuk Distr., vill. Troitskoe, 03.VII.2007, *Salix* sp., on leaves (T.A. Novgorodova).

*Chaitophorus tremulae sorini* Pintera, 1987. *Novosibirsk Prov.*: apt. and al., Novosibirsk Distr., Akademgorodok, 08.VI.2007, *Populus*

*tremula* L., on the lower side of leaves along veins (A.V. Gavrilyuk).

### Family APHIDIDAE

#### Subfamily PTEROCOMMATINAE

*Pterocomma pilosum konoii* Hari ex Takahashi, 1939. *Novosibirsk Prov.*: apt. and al., Novosibirsk Distr., dendropark, 20 and 28.V.2007, *Salix* sp., on trunk and stems (A.V. Gavrilyuk).

*Pterocomma tremulae* Börner, 1940. *Kurgan Prov.*: apt., Ketovskiy Distr., vill. Koltoshovo, 04.VII.2006, *Populus tremula* L., on the trunk (O.Yu. Yuzhakova); *Novosibirsk Prov.*: al., Karasuk Distr., vill. Troitskoe, 03.VI.2007, *Populus tremula* L., on old branches (A.V. Gavrilyuk).

#### Subfamily APHIDINAE

##### Tribe Aphidini

##### Subtribe Aphidina

*Aphis astragalicola* Holman & Szelegiewicz, 1971. *Novosibirsk Prov.*: apt. and al., Karasuk Distr., vill. Troitskoe, 21.VII.2007, *Astragalus danicus* Retz., on stem (T.A. Novgorodova).

*Aphis brunellae* Schouteden, 1903. *Altai Republic*: apt., Turochakskiy Distr., vill. Artybash,

09.VIII.2007, *Prunella vulgaris* L., on stem and on the root collar (A.V. Gavriljuk).

**Aphis coronillae** Ferrari, 1872. *Novosibirsk Prov.*: apt., Karasuk Distr., vill. Troitskoe, 01.VI.2006, *Trifolium* sp., on distal part of sprout (A.V. Gavriljuk); *Kurgan Prov.*: apt., Ketovskiy Distr., vill. Koltoshovo, 04.VII.2006, *Trifolium pratense* L., on base of stem and on the root collar (O.Yu. Yuzhakova).

**Aphis dasiphorae** Holman et Szelegiewicz, 1971. *Altai Republic*: apt., plato Ukok, confluence of rivers Kara-Bulak and Ak-Alakha, 14.VII.2006, *Pentaphylloides fruticosa* (L.) O. Schwarz, on inflorescence (T.A. Novgorodova).

**Aphis esulae** (Börner, 1940). *Novosibirsk Prov.*: apt., Karasuk Distr., vill. Troitskoe, 17.VII.2007, *Euphorbia esula tommasiniana* (Bertol.) Kuzmanov, on inflorescences (A.V. Gavriljuk).

**Aphis franzi** Holman, 1975. *Novosibirsk Prov.*: apt., Karasuk Distr., vill. Troitskoe, 19.VII.2007, *Seseli* sp., on stem (T.A. Novgorodova).

**Aphis longirostrata** Hille Ris Lambers, 1966. *Novosibirsk Prov.*: apt., Cherepanovskiy Distr., vill. Romanovo, 17.VIII.2007, *Plantago* sp., on lower side of leaves (A.V. Gavriljuk).

**Aphis mohelnensis** Holman, 1998. *Novosibirsk Prov.*: apt., Karasuk Distr., vill. Troitskoe, 17.VIII.2007, *Pilosella echioides* (Lumn.) (= *Hieracium echioides* Lumn.), on base of stem and on the root collar (A.V. Gavriljuk).

**Aphis pseudocomosa** Stroyan, 1972. *Kurgan Prov.*: apt., Ketovskiy Distr., vill. Belyy Yar, 12.VII.2006, *Lathyrus pratensis* L., on inflorescences (O.Yu. Yuzhakova).

**Aphis sanguisorbicola** Takahashi, 1966. *Novosibirsk Prov.*: apt., Karasuk Distr., vill. Troitskoe, 18.VII.2007, *Sanguisorba officinalis* L., on stem (T.A. Novgorodova); *Novosibirsk Prov.*: apt., Karasuk Distr., vill. Troitskoe, 07.VII.2007, *Sanguisorba officinalis* L., on stem (A.V. Gavriljuk).

**Aphis takagii** Takahashi, 1966. *Altai Republic*: apt., Aktash Distr., 17.VI.2004, *Veratrum lobelianum* Bernh., on upper and lower side of leaves (T.A. Novgorodova) and 01.VIII.2007, same plant, on stem and on upper and lower side of leaves (V.S. Sorokina)

**Aphis ucrainensis** Zhuravlyov, 1997. *Altai Republic*: apt. and al., Kosh-Agach Distr., the Lower Tara, 02.VII.2006, *Spirea* sp., on lower side of leaves (T.A. Novgorodova); *Novosibirsk Prov.*: al., Karasuk Distr., vill. Troitskoe, 30.V.2007, *Spirea* sp., on inflorescences (T.A. Novgorodova).

## Tribe **Macrosiphini**

### Subtribe **Anuraphidina**

**Anuraphis farfarae** (Koch, 1854). *Novosibirsk Prov.*: al., Karasuk Distr., vill. Troitskoe,

17.VII.2007, *Hieracium umbellatum* L., on stem (T.A. Novgorodova).

**Brachycaudus (Appelia) prunicola** (Kaltenbach, 1843). *Kurgan Prov.*: apt., Kurgan, 17 and 26.VI.2007, Ketovskiy Distr., vill. Utyak, 19.VI.2006 and vill. Kostousovo, 01.VII.2006, *Prunus* sp., on lower side of leaves (A.V. Gavriljuk).

\***Brachycaudus (Appelia) tragopogonis setosus** (Hille Ris Lambers, 1948). *Novosibirsk Prov.*: apt., Novosibirsk Distr., dendropark, 02.VIII.2007, *Tragopogon orientalis* L., on upper side of leaf blades near bases (A.V. Gavriljuk).

\***Brachycaudus (Nevskyaphis) bicolor** (Nevsky, 1929). *Altai Republic*: apt. and al., Kosh-Agach Distr., the Lower Tara, 03.VII.2006, *Cerinth* sp., on root collars (T.A. Novgorodova).

### Subtribe **Liosomaphidina**

**Cavariella intermedia** Hille Ris Lambers, 1969. *Altai Republic*: apt., plato Ukok, confluence of rivers Akkol and Ak-Alakha, 13.VII.2006, *Salix* sp., on leaves (T.A. Novgorodova).

\***Diuraphis (Holcaphis) agrostidis** (Mudathir, 1965). *Kurgan Prov.*: apt., Ketovskiy Distr., vill. Belyy Yar, 12.VII.2006, *Poa annua* L., on leaves (O.Yu. Yuzhakova).

**Semiaphis nolitangere** Aizenberg, 1954 *Altai Republic*: apt. and al., Turochakskiy Distr., vill. Artybash, 10.VIII.2007, *Impatiens nolitangere* L., on lower side of leaves along the veins and on the young sprouts (A.V. Gavriljuk).

### Subtribe **Myzina**

**Aulacortum cylactis** Börner, 1942. *Novosibirsk Prov.*: apt., Novosibirsk Distr., Akademgorodok, 08.VI.2007 and dendropark, 27.VI.2007, *Rubus saxatilis* L., on the lower side of twisted leaves (A.V. Gavriljuk).

### Subtribe **Macrosiphina**

**Amphorophora idaei** (Börner, 1939). *Altai Republic*: apt., Artybash Distr., 06.VIII.2007, *Rubus idaeus* L., on lower side of leaves along the veins (A.V. Gavriljuk).

**Delphiniobium yezoenze** Miyazaki, 1971 *Altai Republic*: apt., Turochakskiy Distr., vill. Artybash, 08.VIII.2007, *Aconitum* sp., on lower side of leaves (A.V. Gavriljuk), 09.VIII.2007, *Aconitum septentrionale* Koelle., on inflorescences (T.A. Novgorodova), same locality, 09 and 10.VIII.2007, *Aconitum volubile* Pall. ex Koelle., on inflorescences and stems of leaves (A.V. Gavriljuk).

\***Macrosiphoniella atra atra** (Ferrari, 1872). *Altai Republic*: apt., Aktash Distr., 31.VI.2007, *Artemisia* sp., on stem (V.S. Sorokina).

**Macrosiphoniella atra latysiphon** Holman & Szelegiewicz, 1978. *Tyva*: apt., Ak-Khol lake, h = 2300m, 28.VII.2007, *Artemisia* sp., on stem (V.S. Sorokina).

**Microsiphum woronieckae** Judenko, 1931. *Kurgan Prov.*: apt., Kurgan Distr., vill. Glinki, 25.VI.2006, *Artemisia vulgaris* L., on stem (O.Yu. Yuzhakova).

\***Sitobion miscanthi** (Takahashi, 1921). *Novosibirsk Prov.*: apt. and al., Novosibirsk Distr., dendropark, 30.VI.2007, *Helictotrichon pubescens* (Huds.) Besser ex Schult. & Schult. f., on inflorescence (A.V. Gavrilyuk).

**Uroleucon obscurum** (Koch, 1855) *Novosibirsk Prov.*: apt. and al., Karasuk Distr., vill. Troitskoe, 18 and 28.VII.2007, *Hieracium umbellatum* L., on stem (T.A. Novgorodova), same

locality and plant, 26 and 28.VIII.2007, on stem (A.V. Gavrilyuk).

**Uroleucon (Uromelan) gobonis** (Matsumura, 1917). *Altai Republic*: apt., Artybash Distr., vill. Obogo, 28.VI.2003, *Saussurea amara* (L.)DC., on stem (T.A. Novgorodova).

#### Acknowledgments

We thank V.S. Sorokina and O.Yu. Yuzhakova for their assistance in collecting aphids. This study was supported by Russian Foundation for Basic Research (grant no. 06-04-48288), Programme of the Presidium of the Russian Academy of Sciences "Biosphere Origin and Evolution", and by the integration project of Russian Academy of Sciences (no. 11.10).

*Received 15 April 2008, accepted 10 June 2008.*