

# Contribution to the aphid fauna (Hemiptera: Aphidoidea) of Imereti Region (Western Georgia)

Sh.Z. Barjadze, N.G. Bakhtadze, G.I. Bakhtadze, N.T. Kintsurashvili,  
N.L. Chakvetadze, N.A. Zhukovskaya & N.S. Gratiashvili

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Aphidoidea) of Imereti Region (Western Georgia). *Zoosystematica Rossica*, **17**(2): 75-80.

Thirty one species of aphids found in Imereti Region in 2004-2007 are recorded in the annotated list. 15 species and one subspecies of them are new record for Imereti Region, while *Aphis salsolae* are recorded for the first time from Transcaucasia.

Sh.Z. Barjadze, LEPL Institute of Zoology of Georgia, Laboratory of Entomology, Chavchavadze av. 31, 0179, Tbilisi, Georgia. E-mail: shalva1980@yahoo.com

N.G. Bakhtadze, LEPL Institute of Zoology of Georgia, Laboratory of Karyosystematics and Biochemistry, Chavchavadze av. 31, 0179, Tbilisi, Georgia. E-mail: nanabakhtadze@yahoo.com

G.I. Bakhtadze, LEPL Institute of Zoology of Georgia, Laboratory of Karyosystematics and Biochemistry, Chavchavadze av. 31, 0179, Tbilisi, Georgia.

N.T. Kintsurashvili, LEPL Institute of Zoology of Georgia, Laboratory of Karyosystematics and Biochemistry, Chavchavadze av. 31, 0179, Tbilisi, Georgia.

N.L. Chakvetadze, LEPL Institute of Zoology of Georgia, Laboratory of Entomology, Chavchavadze av. 31, 0179, Tbilisi, Georgia.

N.A. Zhukovskaya, LEPL Institute of Zoology of Georgia, Laboratory of Karyosystematics and Biochemistry, Chavchavadze av. 31, 0179, Tbilisi, Georgia.

N.S. Gratiashvili, LEPL Institute of Zoology of Georgia, Laboratory of Karyosystematics and Biochemistry, Chavchavadze av. 31, 0179, Tbilisi, Georgia.

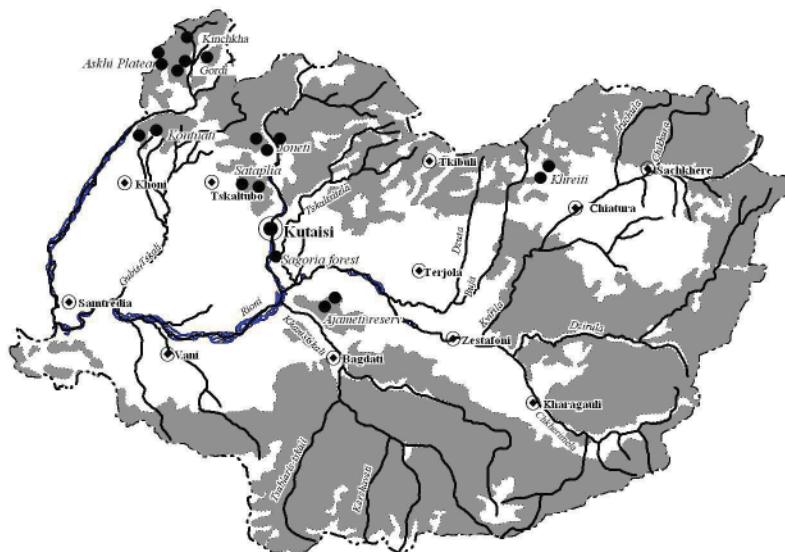
A survey of aphid fauna of Imereti Region began at the beginning of 1950s. Until our investigation 29 species of aphids – *Aphis galii* Schrank, *a. gossypii* Glover, *a. nasturtii* Kaltenbach, *a. urticata* Gmelin, *Brachycaudus cardui* (L.), *B. cerasicola* (Mordvilko ex Nevsky), *Brachyunguis tamaricophilus* (Nevsky), *Brevicoryne brassicae* (L.), *Byrsocryptoides zelkovae* Dzhibladze, *B. zelkovaecola* Dzhibladze, *Diuraphis noxia* (Kurdjumov), *Forda marginata* Koch, *F. pawlowiae* Koch, *Lachnus roboris* (L.), *Macrosiphum rosae* (L.), *Myzus persicae* (Sulzer), *Paracletus bykovi* (Mordvilko), *Phorodon humuli* (Schrank), *Pterocallis maculatus* (von Heyden), *Rhopalosiphum maidis* (Fitch), *Rh. padi* (L.), *Siphanta maydis* Passerini, *Tetraneura caerulescens* (Passerini), *T. ulmi* (L.), *Thelaxes dryophila* (Schrank), *Tuberulatus quercus* (Kaltenbach), *Sitobion avenae* (Fabricius), *S. fragariae* (Walker), *Zelkovaphis caucasica* (Dzhibladze) were registered on the

above mentioned territory (Abashidze, 1951; Dzhibladze, 1960, 1965, 1975; Tsintsadze, 1969; Shavliashvili *et al.* 1980; Porchkhidze, 2006).

Thirty one species of aphids were recorded in Imereti Region during our investigation in 2004-2007, which belonged to 17 genera. Our collected species are given in the annotated list. Of the aphids collected 15 species and one subspecies were first record for Imereti Region. *Aphis salsolae* is recorded for the first time from Transcaucasia.

**Abbreviations:** ap. – apterous viviparous female, al. – alatae viviparous female, Region – Reg., District – Distr., mountain – Mt.; river – R.

**Remarks.** In the annotated list newly recorded species for Imereti Region are indicated by one asterisk and new records for Transcaucasia by two. Map of Imereti Region is given in 1 fig. Aphid sampling sites are marked by black circles.



Map of Imereti Region

### Annotated list of aphids of Imereti Region (collected in 2004-2007)

#### Superfamily APHIDOIDEA

##### Family APHIDIDAE

###### Subfamily APHIDINAE

###### Tribe Aphidini

###### Genus *Aphis* L., 1758

###### 1. *A. (Aphis) affinis* del Guercio, 1911\*

*Distribution.* Tskaltubo Distr.: village Joneti, Mamatsminda – at the bank of Rioni R., apt., apt. and al., 42°23'N 42°41'E, altitude 217 m, 23 June 2007, *Mentha* sp., on stem apices (authors).

*Distribution in the world.* Caucasus, India, Middle East, Pakistan, South Europe, South Russia (Blackman & Eastop, 2006)

###### 2. *A. (Aphis) craccivora* Koch, 1854

*Distribution.* Khoni Distr.: village Nogha, apt., 42°26'N 42°34'E, altitude 209 m, 19 June 2007, *Senecio taraxacifolius* (M.B.) DC., on leaves (authors); Khoni Distr.: village Nakhakhulevi, apt., 42°22'N 42°25'E, altitude 147 m, 22 June 2007, *Taraxacum officinale* Wigg., on leaves (authors); Khoni Distr.: village Nakhakhulevi, apt. and al., 42°22'N 42°25'E, altitude: 147 m, 22 June 2007, *Robinia pseudoacacia* L., on stem (authors); Tskaltubo Distr.: village Joneti, Mamatsminda – at the bank of Rioni R., apt. and al., 42°23'N 42°42'E, altitude 217 m, 23 June 2007, *Minuartia*

*micrantha* Schischk., on leaves (authors).

*Distribution in the world.* Worldwide (Blackman & Eastop, 2006)

###### 3. *A. (Aphis) fabae* Scopoli, 1763

###### *A. fabae fabae* Scopoli, 1763

*Distribution.* Khoni Distr.: village Gordi – Dadiani Palace, apt. and al., 42°27'N 42°32'E, altitude 654 m, 24 June 2007, on *Cephalanthera damasonium* (Mill.) Druce, *Chaerophyllum aureum* L., on leaves (authors); Khoni Distr.: village Kinchkhha – at the bottom of Mt. Turchu, apt., 42°28'N 42°32'E, altitude 737 m, 27 June 2007, on *Chaerophyllum aureum* L., on leaves (authors); Khoni Distr.: South slopes of Mt. Askhi – meadow along the broadleaved forest, apt., 42°33'N 42°34'E, altitude 1444 m, 28 June 2007, *Sanicula europaea* L., on inflorescence and leaves (authors); Khoni Distr.: South slopes of Mt. Askhi – meadow along the broadleaved forest, apt. and al., 42°33'N 42°34'E, altitude 1511 m, 28 June 2007, *Tephroseris cladobotrys* (Ledeb.) Griseb., on stems and leaves (authors); Khoni Distr.: South slopes of Mt. Askhi – meadow along the broadleaved forest, apt. and al., 42°31'N 42°34'E, altitude 1792 m, 28 June 2007, *Rumex alpinus* L., on stem (Authors); Khoni Distr.: South slopes of Mt. Askhi – meadow along the broadleaved forest, apt., 42°33'N 42°34'E, altitude 1511 m, 29 June 2007, *Chaerophyllum aureum* L., on leaves (authors).

###### *A. fabae mordvilkoi* Börner & Janich, 1922\*

*Distribution.* Tskaltubo Distr.: Sataplia reserve, apt., 42°19'N 42°41'E, altitude 392 m, 20 June 2007, *arctium* sp., on leaves and inflorescence

(Authors); Baghdati Distr.: Ajameti reserve, apt., 42°09'N 42°44'E, altitude 108 m, 26 June 2007, *Rumex conglomeratus* Murr., on leaves and inflorescence (Authors).

*Distribution in the world.* Africa, South America, widespread temperate regions of northern hemisphere (Blackman & Eastop, 2006).

#### 4. A. (*Aphis*) *gossypii* Glover, 1877

*Distribution.* Khoni Distr.: village Nogha, apt. and al., 42°26'N 42°34'E, altitude 209 m, 19 June 2007, *Punica granatum* L., on shoots, leaves and inflorescence (Authors); Tskaltubo Distr.: village Joneti – Mamatsminda, apt. and al., 42°23'N 42°42'E, altitude 217 m, 23 June 2007, *Punica granatum* L., on shoots, leaves and inflorescence (Authors); Baghdati Distr.: Ajameti reserve, apt. and al., 42°09'N 42°44'E, altitude 108, 26 June 2007, *Lamium album* L., on undersides of leaves (authors).

*Distribution in the world.* Almost world-wide (Blackman & Eastop, 2006).

#### 5. A. (*Aphis*) *hederae* Kaltenbach, 1843\*

*Distribution.* Khoni Distr.: village Kontuati, apt. and al., 42°22'N 42°25'E, altitude 155 m, 22 June 2007, *Hedera helix* L., on shoots and leaves (authors); Tskaltubo Distr.: village Joneti – Mamatsminda, apt., 42°23'N 42°42'E, altitude 217 m, 23 June 2007, *Hedera helix* L., on shoots and leaves (authors).

*Distribution in the world.* Caucasus, Europe, New Zealand, North America, South Africa, South-west Asia, temperate South America (Blackman & Eastop, 2006).

#### 6. A. (*Aphis*) *pomi* de Geer, 1773

*Distribution.* Khoni Distr.: village Nogha, apt. and al., 42°26'N 42°34'E, altitude 209 m, 19 June 2007, *Malus domestica* Borkh., on undersides of leaves (authors); Tskaltubo Distr.: Sataplia reserve, apt. and al., 42°19'N 42° 41'E, altitude 392 m, 20 June 2007, *Crataegus* sp., *Malus orientalis* (Uglitz.) Juz., on undersides of leaves (authors); Khoni Distr.: village Gordi – Dadiani Palace, apt. and al., 42°27'N 42°32'E, altitude 654 m, 24 June 2007, *Malus domestica* Borkh., on undersides of leaves (authors); Khoni Distr.: South slopes of Mt. Askhi – meadow along the broadleaved forest, apt. and al., 42°33'N 42°34'E, altitude 1255 m, 29 June 2007, *Malus orientalis* (Uglitz.) Juz., on undersides of leaves (authors).

*Distribution in the world.* Caucasus, eastward to India and Pakistan, Europe, North Africa, North America, South-western and Central Asia (Blackman & Eastop, 1994, 2006).

#### 7. A. (*Aphis*) *ruborum* (Börner, 1932) \*

*Distribution.* Khoni Distr.: village Nogha, apt. and al., 42°26'N 42°33'E, altitude 209 m,

19 June 2007, *Rubus* sp., on stem (Authors); Khoni Distr.: village Kontuati, apt. and al., 42°22'N 42°25'E, altitude 155 m, 22 June 2007, *Rubus* sp., on stem (Authors); Baghdati Distr.: Ajameti reserve, apt. and al., 42°09'N 42°44'E, altitude 108 m, 26 June 2007, *Rubus* sp., on stem (Authors).

*Distribution in the world.* Caucasus, Chile (introduced), eastward to India and Pakistan, Europe, North Africa, South-western and Central Asia (Blackman & Eastop, 2006).

#### 8. A. (*Aphis*) *salsolae* (Börner, 1940)\*\*

*Distribution.* Tskaltubo Distr.: village Joneti – Mamatsminda, apt. and al., 42°23'N 42°42'E, altitude 217 m, 23 June 2007, *Kochia prostrata* (L.) Schrad., on stem (Authors).

*Distribution in the world.* Bulgaria, Caucasus, Crimea, France, Germany, Israel, Italy, Rumania, Turkey (Blackman & Eastop, 2006)

#### 9. A. (*Aphis*) *sambuci* L., 1758 \*

*Distribution.* Tskaltubo Distr.: Sataplia reserve, apt. and al., 42°19'N 42°41'E, altitude 392 m, 20 June 2007, *Sambucus nigra* L., on stem – at the basis of leaves (authors).

*Distribution in the world.* Holarctic, South America (introduced) (Blackman & Eastop, 2006).

#### 10. A. (*Aphis*) *solanella* Theobald, 1914\*

*Distribution.* Khoni Distr.: Mt. Askhi, al., 42°35'N 42°35'E, altitude 2141 m, 28 June 2007, *Centaurea cheiranthifolia* Willd., on stem (Authors); Khoni Distr.: village Kinchkhha, apt., 42°32'N 42°34'E, altitude 1158 m, 29 June 2007, *Leucanthemum vulgare* Lam., on stem (Authors).

*Distribution in the world.* Africa, Asia, Caucasus, Europe, South America (Blackman & Eastop, 2006).

#### 11. A. (*Aphis*) *spiraecola* Patch, 1914\*

*Distribution.* Khoni Distr.: village Kinchkhha-at the bottom of Mt. Turchu, apt., 42°28'N, 42°32'E, altitude 737 m, 27 June 2007, *Erigeron podolicus* Bess., on inflorescence (Authors).

*Distribution in the world.* Almost world-wide (Blackman & Eastop, 2006).

#### 12. A. (*Aphis*) *urticata* J.F. Gmelin, 1790

*Distribution.* Tskaltubo Distr.: Sataplia reserve, apt. and al., 42°19'N 42°41'E, altitude 392 m, 20 June 2007, *Urtica dioica* L., undersides of leaves (authors); Tskaltubo Distr.: village Joneti – Mamatsminda, apt. and al., 42°23'N 42°42'E, altitude 217 m, 23 June 2007, *Urtica* sp., on undersides of leaves (authors); Khoni Distr.: village Gordi – Dadiani Palace, apt. and al., 42°27'N 42°32'E, altitude 654 m, 24 June 2007, *Urtica* sp., on undersides of leaves (authors).

*Distribution in the world.* Caucasus, Central Asia, Europe, Middle East, North America (Blackman & Eastop, 2006).

#### Tribe Macrosiphini

Genus ***Brachycaudus*** van der Goot, 1913

##### 13. ***B. (Acaudus) cardui*** (L., 1758)

*Distribution.* Khoni Distr.: village Nogha, apt. and al., 42°26'N 42°34'E, altitude 209 m, 19 June 2007, *Cirsium rhizocephalum* C.A. Mey., on stems and leaves (authors); Baghdati Distr.: Ajameti reserve, apt., 42°09'N 42°44'E, altitude: 108 m, 26 June 2007, *Cirsium* sp., *Senecio erraticus* Bertol., on stems and leaves (authors); Khoni Distr.: South slopes of Mt. Askhi – meadow along the broadleaved forest, apt. and al., 42°33'N 42°34'E, altitude 1511 m, 28 June 2007, *Tephrosia cladobotrys* (Ledeb.) Griseb., on stems and leaves (authors).

*Distribution in the world.* Asia, Caucasus, Europe, North Africa, North America (Andreev, 1999; Blackman & Eastop, 2006).

##### 14. ***B. (Appelia) prunicola*** (Kaltenbach, 1843)

*Distribution.* Khoni Distr.: village Kontuati, apt., 42°22'N 42°25'E, altitude 155 m, 22 June 2007, *Prunus divaricata* Ledeb., on leaves (authors); Khoni Distr.: village Kinchkh – at the bottom of Mt. Turchu, apt., 42°28'N 42°32'E, altitude 737 m, 27 June 2007, *Prunus divaricata* Ledeb., on leaves (authors).

*Distribution in the world.* Caucasus, Europe (Blackman & Eastop, 1994).

Genus ***Brevicoryne*** van der Goot, 1915

##### 15. ***B. brassicae*** (L., 1758)

*Distribution.* Chiatura Distr.: village Khreiti; apt. and al., 42°21'N 43°11'E, altitude Altitude 860 m, 17.VII.2004, *Brassica oleracea* var. *cappitata* L., on leaves (Sh. Barjadze).

*Distribution in the world.* All temperate and warm temperate parts of the world (Blackman & Eastop, 2006).

Genus ***Cavalliera*** del Guercio, 1911

##### 16. ***C. pastinacae*** (L., 1758)\*

*Distribution.* Khoni Distr.: village Kinchkh – Canyon Okatse, apt., 42°28'N 42°32'E, altitude 737 m, 27 June 2007, *Heracleum antisatianum* Manden., on inflorescence and leaves (authors).

*Distribution in the world.* Argentina, Caucasus, Europe, North America (Blackman & Eastop, 2006).

Genus ***Illinoia*** Wilson, 1910

##### 17. ***I. (Illinoia) dzhibladzeae*** (Shaposhnikov, 1964)\*

*Distribution.* Tskaltubo Distr.: village Joneti, Mamatsminda – at the bank of Rioni R., apt. and al., 42°23'N 42°42'E, altitude 217 m, 23 June 2007, *Rhododendron flavum* G. Don, on undersides of leaves and young shoots, flowers and fruits (Authors); Khoni Distr.: village Gordi – Dadiani Palace, apt. and al., 42°27'N 42°32'E, altitude 654 m, 24 June 2007, *Rhododendron flavum* G. Don, on undersides of leaves and young shoots, flowers and fruits (Authors); Near City Kutaisi-Saghoria forest, apt. and al., 42°13'N 42°42'E, altitude 145 m, 26 June 2007, *Rhododendron flavum* G. Don, on undersides of leaves and young shoots, flowers and fruits (Authors).

*Distribution in the world.* Georgia, Turkey, Ukraine (Blackman & Eastop, 2006).

Genus ***Macrosiphum*** Passerini, 1860

##### 18. ***M. (Macrosiphum) funestum*** (Macchiati, 1885)\*

*Distribution.* Tskaltubo Distr.: Sataplia reserve, apt. and al., 42°19'N 42°41'E, altitude 392 m, 20 June 2007, *Rubus* sp., on shoots and leaves (authors).

*Distribution in the world.* Eastward to Moldova, Canada, Caucasus, Throughout Europe, Turkey (Blackman & Eastop, 2006).

Genus ***Sitobion*** Mordvilko, 1914

##### 19. ***S. (Sitobion) avenae*** (Fabricius, 1775)

*Distribution.* Khoni Distr.: village Kinchkh – at the bottom of Mt. Turchu, apt. and al., 42°28'N 42°32'E, altitude 737 m, 27 June 2007, *Melica transsilvanica* Schur., on leaves (authors).

*Distribution in the world.* Africa, Caucasus, Central Asia, Europe, India, Nepal, the Mediterranean, the Middle East, North, Central and South America, Pakistan (Blackman & Eastop, 2006).

##### 20. ***S. (Sitobion) fragariae*** (Walker, 1848)

*Distribution.* Khoni Distr.: village Kinchkh – at the bottom of Mt. Turchu, apt. and al., 42°28'N 42°32'E, altitude 737 m, 27 June 2007, *Cynosurus cristatus* L., on leaves (authors).

*Distribution in the world.* Asia, Caucasus, Europe, North and South America, South Africa (introduced) (Blackman & Eastop, 2006).

Genus ***Uroleucon*** Mordvilko, 1914

##### 21. ***U. (Uroleucon) sonchi*** (L., 1767)\*

*Distribution.* Khoni Distr.: village Kinchkh – Canyon Okatse, apt. and al., 42°28'N 42°32'E,

altitude 737 m, 27 June 2007, *Lactuca* sp., on stems (Authors).

*Distribution in the world.* Almost world-wide (Blackman & Eastop, 2006).

#### Subfamily DREPANOSIPHINAE

##### Genus *Eucallipterus* Schouteden, 1906

###### 22. *E. tiliae* (L., 1758)\*

*Distribution.* Khoni Distr.: village Gordi – Dadiani Palace, al., 42°27'N 42°32'E, altitude 654 m, 24 June 2007, *Tilia begoniifolia* Chun & Wong, on undersides of leaves (authors).

*Distribution in the world.* Caucasus, Europe, New Zealand, North Africa, North America (introduced), southwest and Central Asia (Blackman & Eastop, 1994).

##### Genus *Myzocallis* Passerini, 1860

###### 23. *M. (Myzocallis) carpini* (Koch, 1855)\*

*Distribution.* Khoni Distr.: village Gordi – Dadiani Palace, al., 42°27'N 42°32'E, altitude 654 m, 24 June 2007, *Carpinus caucasica* A. Grosssh., on undersides of leaves (authors); Khoni Distr.: South slopes of Mt. Askhi – meadow along the broadleaved forest, al., 42°33'N 42°34'E, altitude 1255 m, 29 June 2007, *Carpinus caucasica* A. Grosssh., on undersides of leaves (authors).

*Distribution in the world.* Caucasus, Europe, Mediterranean area, Middle East, New Zealand (introduced), North America (Blackman & Eastop, 1994).

###### 24. *M. (Myzocallis) coryli* (Goeze, 1778)\*

*Distribution.* Khoni Distr.: village Nogha, al., 42°26'N 42°34'E, altitude 209 m, 19 June 2007, *Corylus avellana* L., on undersides of leaves (authors); Tskaltubo Distr.: Sataplia reserve, al., 42°19'N 42°41'E, altitude 392 m, 20 June 2007, *Corylus avellana* L., on undersides of leaves (authors); Tskaltubo Distr.: village Joneti, Mamatsminda – at the bank of Rioni R., al., 42°23'N 42°42'E, altitude 217 m, 23 June 2007, *Corylus avellana* L., on undersides of leaves (authors).

*Distribution in the world.* Africa, argentina, Caucasus, Chile, Europe, Japan, New Zealand, southwest Asia, Tasmania, western North America (Blackman & Eastop, 1994).

##### Genus *Phyllaphis* Koch, 1856

###### 25. *Ph. fagi* (L., 1767)\*

*Distribution.* Khoni Distr.: South slopes of Mt. Askhi, al., 42°33'N 42°34'E, altitude: 1401 m, 29 June 2007, *Fagus orientalis* Lipsky, on undersides of leaves (authors).

*Distribution in the world.* Australia (introduced), Caucasus, east to Turkey, New Zealand,

North America, Throughout Europe (Blackman & Eastop, 1994).

#### Genus *Pterocallis* Passerini, 1860

###### 26. *P. maculatus* (von Heyden, 1837)

*Distribution.* Tskaltubo Distr.: Sataplia reserve, al., 42°19'N 42°41'E, altitude 392 m, 20 June 2007, *alnus* sp., on undersides of leaves (authors).

*Distribution in the world.* Caucasus, east to Turkey, Iran, throughout Europe (Blackman & Eastop, 1994).

##### Genus *Tinocallis* Matsumura, 1919

###### 27. *T. (Tinocallis) zelkovaе* Dzhibladze, 1957\*

*Distribution.* Tskaltubo Distr.: Sataplia reserve, al., 42°19'N 42°41'E, altitude 392 m, 18 June 2006, *Zelkova carpinifolia* (Pall.) Dipp., on trunks and undersides of leaves (Sh. Barjadze).

*Distribution in the world.* Georgi, Iran (Blackman & Eastop, 1994).

#### Subfamily LACHNINAE

##### Genus *Lachnus* Burmeister, 1835

###### 28. *L. roboris* (L., 1758)

*Distribution.* Khoni Distr.: village Kinchka – at the bottom of Mt. Turchu, al., 42°28'N 42°32'E, altitude 737 m, 27 June 2007, *Castanea sativa* Mil., on trunks and leaves (authors).

*Distribution in the world.* Caucasus, Europe east to Ukraine, Lebanon, the Mediterranean region (Blackman & Eastop, 1994).

#### Subfamily PEMPHIGINAE

##### Genus *Byrsocryptoides* Dzhibladze, 1960

###### 29. *B. zelkovaecola* Dzhibladze, 1965

*Distribution.* Near City Kutaisi-Saghoria forest, al., 42°13'N 42°42'E, altitude 145 m, 16 June 2006, *Zelkova carpinipholia* (Pall.) Dipp., on leaves (Sh. Barjadze).

*Distribution in the world.* Georgia (Dzhibladze, 1965; Blackman & Eastop, 1994).

##### Genus *Eriosoma* Leach, 1818

###### 30. *E. lanigerum* (Hausmann, 1802)

*Distribution.* Chiatura Distr.: village Khereiti; apt. and al., 42°21'N 43°11'E, altitude 860 m, 15.VII.2004, *Malus domestica* Borkh., on trunks and branches (Sh. Barjadze).

*Distribution in the world.* Throughout the world (Blackman & Eastop, 1994).

## Genus *Forda* von Heyden, 1837

### 31. *F. marginata* Koch, 1857

*Distribution.* Baghdati Distr.: Ajameti reserve, apt., 42°09' N 42°44' E, altitude: 108 m, 26 June 2007, *Bromus japonicus* Thunb., on roots (Authors).

*Distribution in the world.* Caucasus, China, India, Mediterranean region, North America, North and Central Europe, Siberia, South-Western Asia (Blackman & Eastop, 2006).

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