

To the Knowledge of Faunistic Complexes of Cicadina (Homoptera) in the Main Plant Formations of the Northwestern Caucasus

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Abstract—A list of 372 species of leafhoppers from the northwestern Caucasus is provided. Characteristics of the faunistic complexes of leafhoppers inhabiting principal types of plant formations is presented.

Cicadina constitute one of the largest groups of phytophagous insects participating in various ecosystems as consumers of the first level. An investigation of host-plant associations of particular species of Cicadina revealed diverse types of specialization manifested as the preference of host plants belonging to several families of one class (broad polyphagy), closely related families (narrow polyphagy), one family (broad oligophagy), one genus or a group of closely related genera (narrow oligophagy), and one species (monophagy) (Emeljanov, 1964a). Accordingly, in each type of plant communities, definite classes of phytophages may be distinguished. Probably the number of oligophagous species in Cicadina exceeds the number of polyphages (Emeljanov, 1966), as indicated by extensive data on host-plant associations of Cicadellidae (Emeljanov, 1964a, 1969) and a majority of families of Fulgoroidea, except, perhaps, for Meenoplidae, Ricanidae, and Flatidae, in which high percentage of polyphages may be supposed (Wilson *et al.*, 1994). The diversity of phytophagous species of a particular plant species depends, among other factors, on its role in the community.

The edificatory plant species or dominants, approaching edificators in their role, have the most diversified and specific fauna of oligophages (Emeljanov, 1964a). The regularities considered make it possible to distinguish groups of Cicadina species (faunistic complexes), associated with definite plant formations characterized by peculiar set of edificators (or dominants) and assectators, and also by complex of abiotic factors required for the existence of the communities. In this study, the faunistic complexes of the following plant formations are considered: foot-hill and low-mountain steppified meadows; so-

lonetz-solonchak communities; flood-plain forests; oak and oak-hornbeam forests; submediterranean forests; subalpine and alpine meadows. A number of works concerning the flora and vegetation of the Caucasus contain information on the climate and vegetation of the plant formations listed above (Maleev, 1931, 1940; Grossheim, 1948; Shiffers, 1953; Grebenshchikov, 1974; Grebenshchikov, Shanina, and Belonovskaya, 1990). The scheme of biogeographical regionalization and nomenclature of chorological structure of faunistic complexes mostly follow those in a paper by Emeljanov (1974).

The territory of investigation is delimited by the Kuma-Manych Depression on the north, the Azov and Black Seas on the west, Egorlyk, Urup, and Bolshaya Laba Rivers basins on the east, and Psou River basin on the south. The northwestern Caucasus includes Krasnodar Territory, Republic of Adygea, and a small part of Stavropol Territory on the east.

No attempts of a complex investigation of the Cicadina fauna of northwestern Caucasus have been made so far. The largest part of the works with records of species from the region contains descriptions of new taxa. One of the earliest works of this type is that by Grigoriev (1909). In 1914, Melichar published a faunistic list with records of *Reptalus panzeri* from Tuapse, and also *Kormus artemisiae* and *Tettigometra atra* from the Cis-Caucasus (Melichar, 1914). The first faunistic list concerning Cicadina of northwestern Caucasus was published by Bogdanov-Katjkov (1921). This list contains records of 37 species from the region, including the only, till now, findings of *Raivuna striata* and *Tibicina haematodes*. The next stage in the study of the Cicadina of northwestern Caucasus is associated with V.N. Logvinenko, who published a se-

ries of works with descriptions of 20 new species (Logvinenko, 1965, 1966, 1967, 1968, 1969, 1976, 1978, 1981), and also data on distribution of other 24 species in the region (Logvinenko, 1965, 1974, 1975). Logvinenko described endemic species, which, unfortunately still remain known only by the type specimens: *Mycterodus mutuus*; *Edwardsiana trigonometrica*; *Eurhadina donata*; *Eupteryx formaster*; *Diplocolenus admistus*. In 1964, A.F. Emeljanov described three new species from the submediterranean regions of northwestern Caucasus; later, in a paper concerning *EurySELLA tridentata*, he reported data on the distribution of the species in Krasnodar Territory (Emeljanov, 1995). In a paper concerned with the characteristics of sound signals of cicadas, Popov (1975) recorded 6 species from Gelendzhik District and adduced information on the ecology of the mentioned species. Kudryasheva (1979) in an account of the ranges of cicadas in the USSR fauna added data on distribution (distribution maps) of 2 other species in northwestern Caucasus, supplementing also the information on occurrence of 4 previously recorded species. Recently Kolova (1996) published a faunistic list of the Cicadina of Caucasian Reserve, which includes 55 species. Tishechkin (1998) in a paper concerned with the *Aphrodes bicinctus* species group recorded *A. bicinctus* from near Anapa. The material of the investigations by the author have been published in a number of papers (Gnezdilov, 1997a, 1997b, 1999a, 1999b, 1999c, 2000).

This publication is based on the material collected by the author in Krasnodar and Stavropol Territories from 1996 to 1999; that deposited at the Zoological Institute, Russian Academy of Sciences; material provided by M.L. Vil'ner, B.A. Korotaev, A.G. Kireitshuk, V.I. Shchurov; and also the information on the material collected and identified by D.Yu. Tishechkin.

The following abbreviations of the collecting localities in the territory of northwestern Caucasus, are used in the paper. Krasnodar Territory: E—Eysk; Shab—25 km NE of Eysk, Shabel'skoe Vill.; Pokrov—14 km S of Primorsko-Akhtarsk, Novopokrovskii Vill.; Verkhn—30 km NE of Temryuk, Verkhniy Vill.; Chern—17 km NW of Chernoerkovskaya Vill.; Golub—6 km NW of Temryuk, Golubitskaya Vill.; Tr—Temryuk; Kuch—30 km W of Temryuk, Kuchugury Vill.; Tam—Taman' Peninsula, Taman' Vill.; Karab—Taman Peninsula, Taman' Vill., Karabetova Mt.; Pan—Taman' Peninsula, Cape Panagiya; Vol—Taman' Peninsula, Volna Vill.; Bug—Taman' Penin-

sula, Bugazskaya spit; Prim—Taman' Peninsula, Primorskii Vill.; Priz—Taman' Peninsula, Priazovskii Vill.; Ves—35 km SW of Temryuk, Veselovka Vill.; Dub—8 km SW of Temryuk, Dubovyi Rynok Hill; An—Anapa; Les—20 km SW of Slavyansk-na-Kubani, Krasnyi Les Vill.; Var—Varenikovskaya Vill.; Kr—environs of Krasnodar; Vrn—36 km NE of Krasnodar, Voronezhskaya Vill.; Kaz—16 km SW of Kropotkin, Kazanskaya Vill.; Kav—12 km E of Kropotkin, Kavkazskaya Vill.; Temizh—22 km E of Kropotkin, Temizhbekskaya Vill.; Utr—14 km SE of Anapa, Bolshoi Utrish Vill.; Suk—11 km SE of Anapa, Sukko Vill.; Nat—16 km E of Anapa, Natukhaevskaya Vill.; Sup—2 km SE of Anapa, Supsekh Vill.; Bak—8 km N of Novorossiisk, Verkhnebakanskii Vill.; Novr—environs of Novorossiisk; Kab—10 km NW of Gelendzhik, Kabardinka Vill. [erroneously mentioned in the Russian text under identical abbreviation with Goryachii Klyuch (auth.)]; Gel—Gelendzhik; Vin—6 km NW of Gelendzhik, Vinogradnoe Vill., Markotkh Range; Doob—4 km E of Gelendzhik, N slope of Doob Mt.; Dzhan—11 km SE of Gelendzhik, Dzhankhot Vill.; Pras—13 km SE of Gelendzhik, Praskoveevka Vill.; Dzhub—Dzhubga; Mikh—18 km SE of Gelendzhik, Mikhaylovskii Pass; Neb—7 km NW of Tuapse, Nebug Vill.; Ubin—50 km SW of Krasnodar, Ubinskaya Vill.; Pap—14 km SW of Ubinskaya Vill., Papai Mt., ~ 700 m; Azov—45 km SW of Krasnodar, Azovskaya Vill.; Smol—28 km SW of Krasnodar, Smolenskaya Vill.; Stav—35 km SW of Krasnodar, Stavropolskaya Vill.; Krep—38 km SW of Krasnodar, Krepostnaya Vill.; NKrep—12 km N of Krepostnaya Vill. [erroneously mentioned in the Russian text under identical abbreviation for two other localities: 20 km S of Krasnodar, Psekups Vill., and 2–4 km SE of Krasnaya Polyana Vill., Aibga Range (auth.)]; Shebsh—20 km S of Krepostnaya Vill., upper reaches of the Shebsh River; GK—Goryachii Klyuch [erroneously mentioned in the Russian text under identical abbreviation for the locality 10 km NW of Gelendzhik, Kabardinka Vill. (auth.)]; Psek—20 km S of Krasnodar, Psekups Vill. [erroneously mentioned in the Russian text under identical abbreviation for two other localities: 12 km N of Krepostnaya Vill., and 2–4 km SE of Krasnaya Polyana Vill., Aibga Range (auth.)]; Tp—Tuapse; MtL—20 km N of Tuapse, upper reaches of the Psekups River, Lysaya Mt., 800 m; Kriv—12 km NE of Tuapse, Krivenkovskoe Vill.; Eliz—Shaumyan Vill., Elizavetpol'skaya Mt., 661 m; Ap—Apsheronsk; Dakh—13 km WSW Dakhovskaya Vill., 1200 m; Lab—Labinsk; Pseb—56 km S of Labinsk, Psebai Vill., 800 m; SWPseb—35 km SW of

Psebay Vill.; Obl—6 km N of Pshada Vill., Oblengo Mt.; Psh—8–12 km N of Pshada Vill.; Bet—30 km SE of Gelendzhik, Bettia Vill.; Ashe—20 km SE of Tuapse, Ashe Vill.; Laz—Lazarevskoe Vill.; NELaz—10 km NE of Lazarevskoe Vill.; NEL—20 km NE of Lazarevskoe Vill.; SSELaz—10 km SSE Lazarevskoe Vill.; Lyg—20 km ESE Tuapse, Lygotkh Vill.; Mar—15 km NE of Marino Vill., Khadzhuko River, 550–850 m; KP—2–4 km SE of Krasnaya Polyana Vill., Aibga Range [erroneously mentioned in the Russian text under identical abbreviation for the localities: 12 km N of Krepostnaya Vill., and 20 km S of Krasnodar, Psekups Vill. (auth.)]; Aib—8 km SE of Krasnaya Polyana Vill., Aibga Range; Uch—10 km NW of Sochi, Uch-Dere Vill.; S—Sochi; Mz—upper reaches of Mzymta River; Kisha—Caucasian Reserve, Kisha River. Adygeya: Mk—environs of Maikop, Belaya River; Shun—14 km S of Maikop, Shuntuk Vill.; Dakhov—Dakhovskaya Vill., 500 m; SWDakh—8 km SW of Dakhovskaya Vill.; Dakhovsk—12–17 km SW of Dakhovskaya Vill., ~800 m; Kam—23 km SW of Dakhovskaya Vill., Kamennoye More Range, 2000 m; F—Fisht Mt.; Guz—8–12 km SE of Guzeripl Vill., Abago locality; Ab—Abago Mt.; Tybga—16 km SE of Guzeripl Vill., slopes of Tybga Mt.; Bez—15 km SE of Guzeripl Vill., upper reaches of Bezymyannaya River. Stavropol Territory: Nal—Novoaleksandrovsk; NV—2 km E of Novoaleksandrovsk, Vinogradnyi Vill.

For each species, localities and dates of collecting are given, with indication of the name of collector, except for own material (1996–1999) and cases when I failed to ascertain the collector's name, and also published records of the species from the region. The names of the species known only from published records are marked with asterisk, and the published data on distribution are cited.

The list of Cicadina of Northwestern Caucasus

Family CIXIIDAE Spinola

1. *Trigonocranus emmeae* Fieb. Bak, 27.VI.1999; KP, 800–1400 m, 12.VII.1999.
2. *Myndus musivus* (Germ.). GK, 15.VII.1999; Kaz, 6.VII.1999; Kr, Kuban' River bank, 19.VI.1908 (Borisov).
3. *Reptalus cuspidatus* (Fieb.). Utr, 16.VI.1997, 25.VI.1998; Vrn, 14.VI.1997; Pap, 700 m, 18.VI.1998; Nat, 17.VI.1997; Kab, 28.VI.1998; Vin, 22.VII.1997;

Dzhan, 2.VII.1956 (K. Arnoldi); Novr, 25.VII.1997; Bak, 26.VI.1999; Suk, 20.VI.1999; Kaz, 6.VII.1999; NV, 24.V.1999. Logvinenko (1975).

4. *R. melanochaetus* (Fieb.). NV, 3–7.VII.1997 (B.A. Korotyaev); Ves, 17.VIII.1997. Gnezdilov (1999c).

5. *R. quinquecostatus* (Duf.). Stav, 8.VI.1997; Karab, 4–5.VIII.1998; Golub, 3.VIII.1998; Pokrov, 30.VI.1999; Shab, 3.VII.1999; Kr, 15.VI.1999; Psek, 14.VI.1999; GK, 15.VII.1999; S, 6–8.VII.1900 (Bykov), 16.VI.1957 (Garnovskaya). Gnezdilov (1999c).

6. *R. panzeri* (Löw). Ves, 17.VIII.1997; Utr, 25.VI.1998. Melichar (1914).

7. *R. vilbastei* Logv. NV, 3–7.VIII.1997 (B.A. Korotyaev). Gnezdilov (1999c).

8. *Pentastiridius leporinus* (L.). Pokrov, 6.IX.1998.

9. *P. nanus* (Iv.). Pan, 15.VIII.1997; Vol, 6.VIII.1998. Gnezdilov (1999c).

10. *Hyalesthes luteipes* Fieb. Suk, 20–21.VI.1999. Gnezdilov (1999c).

11. *H. mlokosiewiczi* (Sign.). Psh, 22.VI.1997; Pseb, 16.VI.1999; NEL, 200 m, 5.VI.1999 [erroneously recorded from SSELaz in the Russian text (auth.)]. Gnezdilov (1999c).

12. *H. obsoletus* Sign. MtL, 28.VI.1997; Utr, 25.VI.1997; Gel, 21.VII.1997; Vin, 22–23.VII.1997; Bet, 19–20.VIII.1997; NKrep, 5.VIII.1997; NV, 3–7.VII.1997 (B.A. Korotyaev); Bak, 27.VII.1999; Kav, 5.VII.1999; Kaz, 6.VII.1999; Temizh, 4.VII.1999. Kolova (1996), Gnezdilov (1999c).

13. *Cixius admirabilis* Logv. NEL, 160–200 m, 4.VI.1999.

14. *C. (Acanthocixius) carniolicus* Wagn. Laz, 15.VI.1986. Logvinenko (1965).

15. *C. (Orinocixius) cambricus* China. Smol, 16.V.1997; Aib, 1900 m, 11.VII.1999; Pseb, 21.VI.1999. Logvinenko (1975), Gnezdilov (1999c).

16. *C. (Ceratocixius) hispidus* Logv. Sup, 14.IX.1999 (V.I. Shchurov), at light. Logvinenko (1967).

17. *C. (C.) rufus* Logv. Kriv, 3.IX.1998; SWDakh, 9.VII.1998; Pseb, 16–21.VI.1999; SWPseb, 1700 m, 26.VII.1998; Kab, 22.VII.1997; GK, 16–17.VII.1999; Shebsh, 7.VIII.1997; Kr, 21.VIII.1998; Shab, 3.VII.1999; Guz, 1700–1950 m, 26–27.VII.1999; KP, 800–

1500 m, 12.VII.1999; Mz, 6.VIII.1970 (L. Anufriev); Ap, 11.VII.1971 (P.G. Tshmir). Logvinenko (1969), Gnezdilov (1999c).

Family DELPHACIDAE Leach

Subfamily Asiracinae Motschulsky

18. *Asiraca clavicornis* (F.). Smol, 16–21.V.1997; Stav, 8.VI.1997; Vrn, 14.VI.1997; NV, 3–7.VII.1997, 24.V.1999 (B.A. Korotyaev); Gel, 30–31.VIII.1997; Dzhan, 2.VII.1956 (K. Arnoldi); Shebsh, 7.VIII.1997; Pseb, 17.VI.1999; Suk, 21.VI.1999.

Subfamily Kelisiinae Wagner

19. *Anakelia perspicillata* (Boh.). Dakhovsk, 10.VII.1998; Pseb, 18.VI.1999; Suk, 21.VI.1999. Gnezdilov (1999c).

20. *Kelisia guttula* (Germ.). GK, 3–4.IX.1998. Gnezdilov (1999c).

21. *K. pallidula* (Boh.). Dakhovsk, 10.VII.1998. Gnezdilov (1999c).

22. *K. ribauti* Wagn. Pseb, 17–19.VI.1999; Bez, 1870 m, 29.VII.1999; Aib, 1900 m, 11.VII.1999.

Subfamily Stenocraninae Wagner

23. *Stenocranus minutus* (F.). Gel, 30.VIII.1997; GK, 14.IX.1997; Ubin, 735 m, 28.VIII.1998.

Subfamily Delphacinae Wagner

24. **Megamelus notula* (Germ.). Caucasian Reserve (Logvinenko, 1975).

25. *Ditropis pteridis* Spin. S, 17.V.1917 (V. Stark).

26. *Pastiroma clypeata* (Horv.). Pokrov, 30.VI.1999.

27. *Euryxa lineata* (Perr.). Smol, 16–21.V.1997; An, 18.VI.1997; Nat, 17.VI.1997; Utr, 28–29.V.1999; Bak, 26.VI.1999. Gnezdilov (1999c).

28. *Stiroma bicarinata* (H.-S.). SWPseb, 1700–1900 m, 23–26.VII.1998; Bez, 1900 m, 30.VII.1999; Guz, 1700–1950 m, 25–27.VII.1999; KP, Aib, 800–1900 m, 10–12.VII.1999. Kolova (1996), Gnezdilov (1999c).

29. *Metropis mayri* Fieb. Obl, 450–500 m, 23.VI.1997. Gnezdilov (1999c).

30. *Euryxella tridentata* (Logv.). Bak, 26.VI.1999; Pseb, 21.VI.1999. Emeljanov (1995).

31. *Euconomelus lepidus* (Boh.). Psek, 14.VI.1999; Guz, 1750 m, 25.VII.1999.

32. **Conomelus odrayssius* Dlab. Caucasian Reserve, Sennaya glade (Logvinenko, 1975).

33. *Delphax crassicornis* (Panz.). Kav, 5.VII.1999.

34. *D. armeniacus* Anufr. Shab, 1.VII.1999.

35. *Changeonodelphax velitshkovskyi* (Mel.). Shab, 1.VII.1999.

36. *Trichodelphax aurora* Logv. Laz, 2.VII.1986.

37. *Chloriona clavata* Dlab. GK, 3–4.IX.1998. Logvinenko (1975), Gnezdilov (1999c).

38. *Ch. glaucescens* Fieb. Shab, 1.VII.1999.

39. **Chlorionidea flava* (Löw). Tuapse Distr., Nebug Vill. (Logvinenko, 1975).

40. *Laodelphax striatellus* (Fall.). Stav, 16–21.VI.1997; Gel, 24.VI, 21.VII.1997; Vin, 22–23.VII.1997; Verkhn, 12.VIII.1997; Dub, 17.VIII.1997; Doob, 18.VIII.1997; Pseb, 18.VI.1999; Bak, 26.VI.1999; Shab, 1.VII.1999; Kr, 15.VI.1999; Tybga, 1950–2200 m, 26–28.VII.1999; NV, 5.VII.1999; Kav, 5.VII.1999. Kolova (1996).

41. *Ditropsis flavipes* (Sign.). Pseb, 17.VI.1999. Logvinenko (1975).

42. *Delphacodes audrasi* Rib. Psek, 14.VI.1999; Temizh, 4.VII.1999.

43. *Muellerianella brevipennis* (Boh.). Dakhovsk, 9.VII.1998. Logvinenko (1975). Recently, has been erroneously recorded as *M. fairmairei* (Perr.) (Gnezdilov, 1999c).

44. *M. extrusa* (Perr.). GK, 15.VII.1999.

45. *Muirodelphax aubei* (Perr.). Vrn, 14.VI.1997; Pseb, 18–19.VI.1999; SWPseb, 1700 m, 23.VII.1998; Verkhn, 12.VIII.1997; Golub, 3.VIII.1998; Bak, 26.VI.1999; Kr, 15.VI.1999; Shab, 2.VII.1999; Pan, 15.VIII.1997; Kuch, 12–13.VIII.1997; NV, 5.VII.1999; Temizh, 4.VII.1999; Kav, 5.VII.1999; Kaz, 6.VII.1999.

46. *Acanthodelphax spinosus* (Fieb.). Dakhovsk, 10.VII.1998. Gnezdilov (1999c).

47. *A. denticauda* (Boh.). Guz, 1950 m, 26.VII.1999; Kisha, 18.VI.1911 (Volnukhin). Kolova (1996).

48. *Dicranotropis divergens* Kbm. Kam, 13.VII.1998; Pseb, 17–18.VI.1999; SWPseb, 1700–

- 2170 m, 23–27.VII.1998; Guz, Tybga, 1750–2200 m, 25–28.VII.1999; Aib, 2300 m, 10.VII.1999. Logvinenko (1975), Kolova (1996), Gnezdilov (1999c).
49. *D. hamata* (Boh.). Shebsh, 557 m, 6.VIII.1997; Ubin, 28.VIII.1997; GK, 15.VII.1999; Guz, 1950 m, 26.VII.1999. Kolova (1996).
50. *D. sagata* Logv. Shab, 1.VII.1999.
51. *Kosswigianella exigua* (Boh.). Pseb, 19.VI.1999.
52. **Xanthodelphax flaveolus* (Flor). Smolenskaya Vill. (Logvinenko, 1975).
53. *X. stramineus* (Stål). Guz, 1950 m, 26.VII.1999; GK, 15.VII.1999. Logvinenko (1975).
54. *X. xanthus* Vilb. Pseb, 17–21.VI.1999. Kolova (1996).
55. *Stiromella obliqua* Wagn. Pseb, 19.VI.1999.
56. *Toya propinqua* (Fieb.). Bug, 16.VIII.1997; Shebsh, 7.VIII.1997; Bet, 19–20.VIII.1997; Verkhn, 11–12.VIII.1997; GK, 15.VII.1999; Kaz, 6.VII.1999. Kolova (1996).
57. *Javesella dubia* (Kirsch.). Mar, 800 m, 9.VI.1999; Pseb, 21.VI.1999; GK, 15.VII.1999. Logvinenko (1975), Kolova (1996).
58. *J. forcipata* (Boh.). Guz, 1870–1950 m, 26–29.VII.1999.
59. *J. pellucida* (F.). Shab, 1.VII.1999; NV, 5.VII.1999; Guz, 1950 m, 26.VII.1999.
60. *Ribautodelphax affinis* Logv. Pseb, 21.VI.1999.
61. *R. albostriatus* (Fieb.). Shebsh, 6–7.VIII.1997; Dakhovsk, 10.VII.1998; GK, 16.VI.1999; Pap, 18.VI.1998; SWPseb, 1700–2170 m, 23–27.VII.1998; Guz, 1870–1950 m, 26–29.VII.1999; Kr, 15.VI.1999.
62. *R. collinus* (Boh.). GK, 15.VII.1999.
63. *Kormus artemisiae* Fieb. Prim, 14.V.1997; Karab, 4–5.VIII.1998; Golub, 3.VIII.1998, 30.V.1999; Shab, 2.VII.1999. Logvinenko (1975).
- Family DERBIDAE Spinola**
- Subfamily Derbinae Spinola**
64. *Cedusa sarmatica* (Anufr.). NEL, 200 m, 5.VI.1999; GK, 15.VII.1999. Logvinenko (1975).
- Family DICTYOPHARIDAE Spinola**
- Subfamily Dictyopharinae Spinola**
65. *Dictyophara europaea* L. NV, 5.VII.1997 (B.A. Korotyaev); Bet, 19–20.VIII.1997; Tr, 2.VIII.1998; Temizh, 4.VII.1999; Kr, 15.VI.1999; Suk, 21.VI.1999. Bogdanov-Katjkov (1921).
66. *D. lindbergi* Metc. S, 6.VIII.1922 (I. Gudim).
67. *D. multireticulata* M. R. Bet, 19–20.VIII.1997; Kab, 28.VI.1998; Suk, 21.VI.1999.
68. **Raivuna striata* (Osh.). Sochi (Bogdanov-Katjkov, 1921).
- Family TROPIDUCHIDAE Stål**
69. *Trypetimorpha occidentalis* Huang, Bourg. GK, 14.IX.1997. Gnezdilov (1999c).
- Family TETTIGOMETRIDAE Germar**
70. *Tettigometra atra* Hgb. Tam, 30.IV.1991 (V.I. Shchurov). Logvinenko (1975), Gnezdilov (1999).
71. *T. griseola* Fieb. Tam, 14.VIII.1997. Gnezdilov (1999c).
72. **T. macrocephala* (Fieb.). Aspidny Pass; upper reaches of the Urushten River [Caucasian Reserve] (Logvinenko, 1975).
73. *T. obliqua* Panz. Vin, 22–23.VII.1997. Gnezdilov (1999c).
74. *T. sordida* Fieb. GK, 22.IX.1996; Kuch, 13.VIII.1997. Gnezdilov (1999c).
75. *T. sulphurea* M. R. Smol, 9.X.1996; Kuch, 13.VIII.1997; NV, 24.V.1999. Gnezdilov (1999c).
76. *T. vitellina* Fieb. Pan, 15.VIII.1997; Kuch, 13.VIII.1997. Gnezdilov (1999c).
- Family CALISCELIDAE Amyot et Serville**
77. *Caliscelis affinis* (Fieb.). Vrn, 14.VI.1997; Nat, 17.VI.1997; NV, 6–7.VII.1997 (B.A. Korotyaev); Kuch, 13.VIII.1997; Shab, 1.VII.1999; Kr, 15.VI.1999; Kav, 5.VII.1999. Gnezdilov (1999c).
78. *C. wallengreni* (Stål). Pokrov, 30.VI.1999; Shab, 2.VII.1999. Logvinenko (1975).
79. *Aphelonema (Peltonotellus) punctifrons* (Horv.). Karab, 4–5.VIII.1998; Pseb, 18.VI.1999; Bak, 25.VI.1998, 26.VI.1999. Gnezdilov (1999c).
80. *Ommatidiotus dissimilis* (Fall.). Vrn, 14.VI.1997. Gnezdilov (1999c).
81. *O. inconspicuus* Stål. Vrn, 5.VI.1998. Gnezdilov (1999c).

Family ISSIDAE Spinola

82. *Alloscelis vittifrons* (Iv.). Kav, 5.VII.1999.
83. *Agalmatium bilobum* Fieb. Kab, 28.VI.1998; Novr, 500 m, 25.VII.1997; Doob, 18.VIII.1997; Ves, 17.VIII.1997; Pan, 15.VIII.1997; Kuch, 13.VIII.1997; Tr, 2.VIII.1998; Bak, 27.VII.1999; Suk, 20.VI.1999. Logvinenko (1975).
84. *A. flavescens* (Oliv.). Bet, 19–20.VIII.1997. Gel, summer 1997 (D.Yu. Tishechkin). Gnezdilov (1999c).
85. *Bubastia taurica* (Kusn.). Kab, 24.VII.1997; Novr, 25.VII.1997; Gel, 21.VII.1997; Doob, 18.VIII.1997. Gnezdilov (1999c).
86. *Issus pospisili* Dlab. Smol, 16.V.1997; Kriv, 3.IX.1998; Laz, 27.IX.1985 (A.G. Kireitshuk).
87. *Latilica emelianovi* Logv. Doob, 18.VIII.1997. Gnezdilov (1999c).
88. *Mycteroodus (Comporodus) ovifrons* (Put.). Shebsh, 6.VIII.1997; Kr, 21.VIII.1998; SSELaz, 1.VII.1998; Suk, 20.VI.1999. Logvinenko (1974).
89. **M. (C.) mutuus* Logv. Krasnodar (Logvinenko, 1968).
90. *M. (Mycteroodus)* sp. n. Aib, 1900 m, 10–11.VII.1999.
91. *M. (M.) rostratus* Em. An, 18.VI.1997; Utr, 16.VI.1997, 28–29.V.1999; Gel, 23–24.VI.1997, 21.VII.1997; Bak, 20.V.1997 (V.I. Shchurov), 27.VI.1999. Emelianov (1964b), Logvinenko (1974).
92. *M. (M.) sarmaticus* Logv. Laz, 15.VI.1997. Logvinenko (1967, 1974).
93. *Scorlupella medea* Logv. Azov, 23.V.1997; Nat, 17.VI.1997; MtL, 28.VI.1997; Obl, 450–500 m, 23.VI.1997; An, 18.VI.1997; Utr, 16.VI.1997; Gel, 21.VII.1997; Vin, 22–23.VII.1997; Novr, 25.VII.1997; Bak, 26.VI.1999; Shebsh, 557 m, 6.VIII.1997; SW Dakh, 9.VII.1998; Pap, 18.VI.1998; Kam, 13.VII.1998; SWPseb, 2170 m, 27.VII.1998; Pseb, 16–18.VI.1999; Temizh, 4.VII.1999; Kav, 5.VII.1999; Tybga, 2200 m, 30.VII.1999. Logvinenko (1976), Gnezdilov (1999c).
94. *S. montana* (Beck.). An, 15.VI.1997; Utr, 28–29.V.1999; Bak, 26.VI.1999; Temizh, 4.VII.1999. Logvinenko (1975).

Family RICANIIDAE Amyot et Serville

95. *Ricania japonica* Mel. Pap, 18.VI.1998; SSELaz, 1.VII.1998; Laz, 27.IX.–2.X.1985 (A.G. Kireit-

shuk), 14.VII.1986; Uch, 4.VII.1996 (M.L. Vil'ner). Kolova (1996), Gnezdilov (1999c).

Family CICADIDAE Leach

96. *Tibicen plebejus* (Scop.). Tp, 1.VII.1998. Bogdanov-Katjkov (1921), Popov (1975), Kudryasheva (1979).
97. **Tibicina haematodes* (Scop.). Abrau (Bogdanov-Katjkov, 1921).
98. *T. intermedia* Fieb. Nat, 17.VI.1997; Suk, summer 1997 (D.Yu. Tishechkin); Novr, 28.V.1908 (Kat'kova), [?] V.1923 (E. Stepanov); Bak, 8.VII.1908 (N. Bogdanov-Katjkov), Popov (1975), Kudryasheva (1979).
99. *Cicadatra atra* (Oliv.). Gel, 23–24.VI.1997; Gel, Cape Tonky, [?] VIII.1910 (N. Vorobyev); Gel, 29.VI.1948 (Kryzhanovsky); Suk, summer 1997 (D.Yu. Tishechkin); An, 7.VII.1910 (collected by pupils of First men's gymnasium), 14.VII.1924 (E. Stepanov); Kholodnaya ravine, near Taman' Vill., 26.VI.1924 (Esipov); Var, 24.VI.1924 (G. Gitterman). Bogdanov-Katjkov (1921), Popov (1975).
100. *C. hyalina* (F.). Utr, 16.VI.1997; Suk, summer 1997 (D.Yu. Tishechkin); An, 14.VI.1910 (materials of pupils of First men's school); Gel, Cape Tonky, 20–25.VII.1909 (Stark); Gel, 16–22.VI.1908 (N. Vorobyev); Novr, [?] V.1923; Temizh, 4.VII.1999. Bogdanov-Katjkov (1921), Popov (1975), Kudryasheva (1979).
101. *C. persica* Kirk. Utr, 16.VI.1997, summer 1997 (D.Yu. Tishechkin). Gnezdilov (1999c).
102. *Cicada orni* L. Tp, 1.VII.1998; Bet, 7.VIII.1997 (A.D. Novikov); Gel, [?] (N. Vorobyev); Neb, 16.VIII.1924 (G. Gitterman). Bogdanov-Katjkov (1921), Popov (1975), Kudryasheva (1979).
103. *Cicadetta dimissa* (Hag.). An, [?] VII.1910 (collected by pupils of First men's gymnasium); Novr, [?] V.1923. Popov (1975), Kudryasheva (1979).
104. *C. montana* (Scop.). Bak, 27.VII.1999. Bogdanov-Katjkov (1921).
105. **C. podolica* (Eichwald). Medvedovskaya Vill., Anapa, Markotkh Range (Bogdanov-Katjkov, 1921).
106. *C. tibialis* (Panz.). Nat, 17.VI.1997; An, 16.VI.1997; Suk, 16.VI.1997. Bogdanov-Katjkov (1921).

107. *Melampsalta musiva* (Germ.). Gel, [?] (N. Vorobyev). Kudryasheva (1979).

Family CERCOPIDAE Leach

108. *Cercopis intermedia* Kmb. Pseb, 16–18.VI. 1999; Dakh, 15.VII.1997; Shun, 23.V.1895 (Vyrzhikovskaya); Laz, 200–240 m, 2–3.VI.1999; SSELaz, 3.VI.1999; NEL, 160 m, 4.VI.1999; Mar, 800–850 m, 7–9.VI.1999; S, 16.VI.1957 (Garnovskaya); Guz, 1750 m, 25.VII.1999; Aib, 1850–1900 m, 9–11.VII. 1999; NV, 24.V.1999; Gel, 12.VII.1956 (Kurcheva), 23.V.1956 (Bey-Bienko); Dzhan, 28.V.1956 (K. Arnoldi); GK, Kotkh Range, 19.V.1956 (Bey-Bienko). Kolova (1996).

Family APHROPHORIDAE Amyot et Serville

109. *Aphrophora alni* (Fall.). Stav, 8.VI.1997; Bet, 19–20.VIII.1997; Ubin, 28.VIII.1997; GK, 14.IX. 1997; Laz, 14.VII.1986, 200–240 m, 2–3.VI.1999; NEL, 200 m, 5.VI.1999; Dakh, 15.VII.1997 [erroneously referred to 1977 in the Russian text (auth.)]; Shun, 17–18.V.1895 (Vyrzhikovskaya), 31.VIII.1956 (Garnovskaya); Pseb, 16.VI.1999; Psek, 14.VI.1999; KP, 800–1500 m, 12.VII.1999; Gel, 12.VII.1956 (Kurcheva). Kolova (1996).

110. *A. salicina* (Goeze). Vrn, 14.VI.1997; Kr, 17.VIII.1998.

111. *Lepyronia coleoptrata* (L.). Gel, 12.VII.1956 (Kurcheva); Pap, 18.VI.1998; Laz, 14.VII.1986; S, 16.VI.1957 (Garnovskaya); Dakh, 15.VII.1997; Shun, 31.VIII.1956 (Garnovskaya); Pseb, 17.VI.1999; Bak, 26.VI.1999; Shab, 1.VII.1999; Temizh, 4.VII.1999; Kav, 5.VII.1999; Kaz, 6.VII.1999; Kr, 15.VI.1999; Psek, 14.VI.1999; Suk, 21.VI.1999; NV, 24.V, 5.VII. 1999; GK, 15.VII.1999; GK, Pshaf Range, 16.VI.1956 (K. Arnoldi). Kolova (1996).

112. *Neophilaenus albipennis* (F.). Pseb, 18.VI.1999; Gel, 6.VII.1956 (K. Arnoldi), 12.VII.1956 (Kurcheva); GK, Kotkh Range, 20.VI.1956 (K. Arnoldi); Laz, 31.VII.1952 (Rudolf).

113. *N. campestris* (Fall.). Shebsh, 5.VIII.1997. Bogdanov-Katjkov (1921), Kolova (1996).

114. *N. lineatus* (L.). Pap, 18.VI.1998; Ubin, 735 m, 28.VIII.1997; GK, 17.VII.1999; KP, 800–1500 m, 12.VII.1999. Bogdanov-Katjkov (1921).

115. **N. minor* (Kbm.). Anapa, Krasnodar, Poltavskaya Vill., Pshada Vill. (Bogdanov-Katjkov, 1921).

116. *Philaenus spumarius* (L.). Utr, 28–29.V.1999; An, 27.V.1999; Bak, 26.VI.1999; Gel, 6.VII.1956 (K. Arnoldi); Pokrov, 30.VI.1999; Pseb, 16–18.VI. 1999; Shab, 1–2.VII.1999; Temizh, 4.VII.1999; SSELaz, 3.VI.1999; NEL, 200 m, 5.VI.1999; Psek, 14.VI. 1999; NV, 24.V, 5.VII.1999; GK, 16.VI.1999, 15.VII. 1999; Kav, 5.VII.1999; Kaz, 6.VII.1999; Golub, 30.V. 1999.

117. *Philaronia petrovi* (Grig.). MtL, 900 m, 28.VI.1997; SWPseb, 1700–2170 m, 23–27.VII.1998; Bez, 1870 m, 29.VII.1999; Dakh, 15.VII.1997; Aib, 800–2300 m, 10–12.VII.1999; Laz, 200–240 m, 2–3.VI.1999; NEL, 160 m, 4.VI.1999; Mar, 550–850 m, 6–8.VI.1999; Guz, Tybga, 1700–2200 m, 25–28.VII. 1999; Mk, 26.VI.[?] (G. Shaposhnikov). Grigoriev (1909) [erroneously omitted in the Russian text (auth.)], Kolova (1996), Gnezdilov (1999c).

Family MEMBRACIDAE Rafinesque

Subfamily Centrotinae Amyot et Serville

118. *Centrotus cornutus* (L.). Smol, 16–21.V.1997; Dakh, 15.VII.1997; Shun, 1.V.1956 (Garnovskaya); Bak, 27.VII.1999; Dzhan, 30.V.1956 (Bey-Bienko); Laz, 15. VII.1952 (Rudolf), 200–240 m, 2–3.VI.1999; NEL, 160 m, 4.VI.1999; Aib, 1900 m, 11.VII.1999.

Subfamily Smiliinae Stål

119. *Stictocephala bisonia* Kopp, Yonke. Kr, 21.VIII.1998; Psek, 14.VI.1999; Dakhov, 24.VII.1999; GK, 15.VII.1999; Kaz, 6.VII.1999. Kolova (1996), Gnezdilov (1999c).

Family ULOPIDAE Le Peletier et Serville

120. *Utecha trivia* (Germ.). MtL, 28.VI.1997; Obl, 450–500 m, 23.VI.1998; Tr, 26.V.1997, 6.VIII.1998; Pseb, 16–18.VI.1999; Bak, 26.VI.1999; Kr, 15.VI. 1999; Dakhov, 24.VII.1999; NV, 24.V, 5.VII.1999; Temizh, 4.VII.1999; Kav, 5.VII.1999; Kaz, 6.VII. 1999. Kolova (1996).

Family Ledridae Kirschbaum

121. *Ledra aurita* (L.). SSELaz, 1.VIII.1998; Mar, 850 m, 7–8.VI.1999; Mikh, 26.V.1956 (K. Arnoldi); GK, 16.VI.1999, 15.VII.1999; Shun, 22.VI.1956 (Garnovskaya).

Family CICADELLIDAE Latreille

Subfamily Macropsinae Evans

122. *Oncopsis appendiculata* Wagn. Pseb, 21.VI.1999.

123. *O. carpini* (J. Sahlb.). Pseb, 21.VI.1999; Laz, 240 m, 2–3.VI.1999; Mar, ~ 550 m, 6.VI.1999; Bez, 1900–2200 m, 30.VII.1999.
124. *O. tristis* (Zett.). SWPseb, 1700 m, 24.VII.1998.
125. *O. tsejensis* Tisch. Pseb, 20.VI.1999.
126. *Macropsis cerea* (Germ.). Krep, 5.VI.1997; SWDakh, 9.VII.1998.
127. *M. elaeagni* Em. Suk, summer 1997 (D.Yu. Tishechkin); Golub, 3.VIII.1998; Bak, 26–27.VI.1999.
128. *M. fuscinervis* (Boh.). Pseb, 21.VI.1999; MtL, 28.VI.1997.
129. *M. graminea* (F.). Suk, summer 1997 (D.Yu. Tishechkin).
130. *M. pictipes* Horv. [junior synonym—*M. grossa* Dub. was recorded in the Russian text (auth.)] Pseb, 600–800 m, 16–20.VI.1999.
131. *M. hauppii* Wagn. Suk, summer 1997 (D.Yu. Tishechkin).
132. *M. marginata* H.-S. Suk, summer 1997 (D.Yu. Tishechkin); SWDakh, 9.VII.1998; Pseb, flood-plain of Malaya Laba River, 600 m, 20.VI.1999.
133. *M. mendax* (Fieb.). Suk, summer 1997 (D.Yu. Tishechkin).
134. *M. notata* (Proh.). Suk, summer 1997 (D.Yu. Tishechkin).
135. *M. ocellata* (Prov.). SWDakh, 9.VII.1998; Suk, summer 1997 (D.Yu. Tishechkin).
136. *M. prasina* (Boh.). SWDakh, 9.VII.1998; MtL, 28.VI.1997.
137. *M. scutellata* (Boh.). Pras, summer 1997 (D.Yu. Tishechkin); GK, 14.IX.1998.
138. *M. vicina* (Horv.). Suk, summer 1997 (D.Yu. Tishechkin).
139. *M. viridinervis* Wagn. Suk, summer 1997 (D.Yu. Tishechkin).
140. *M. vocalis* Tisch. Suk, summer 1997 (D.Yu. Tishechkin).
141. *Hephatus nanus* (H.-S.). Stav, 8.VI.1997; Vrn, 14.VI.1997; Nat, 17.VI.1997; Laz, 19.VI.1986; Pseb, 17.VI.1999; Shab, 1.VII.1999; Kr, 15.VI.1999; NV, 5.VII.1999; Kaz, 6.VII.1999.
142. *Macropsidius serratus* Logv. Golub, 30.V.1999. Logvinenko (1965).
- Subfamily Agalliinae Kirkaldy
143. *Anaceratagallia aciculata* (Horv.). GK, 26.IX.1996; Laz, 27.IX–2.X.1985 (A.G. Kireitshuk). Gnezdilov (1999c).
144. *A. fragariae* Mit. Suk, summer 1997 (D.Yu. Tishechkin).
145. *A. laevis* (Rib.). Verkh, 12.VIII.1997; Nat, 17.VI.1997; Karab, 14.VIII.1997. Gnezdilov (1999c).
146. *A. ribauti* Oss. Nat, 17.VI.1997; Temizh, 4.VII.1999; Kav, 5.VII.1999; Kaz, 6.VII.1999; Vrn, 6.VII.1999. Gnezdilov (1999c).
147. *A. venosa* (Fourc.). Obl, 450–500 m, 23.VI.1997; Nat, 17.VI.1997; Gel, 30–31.VIII.1997. Bogdanov-Katjkov (1921), Gnezdilov (1999c).
148. *Astroagallia sinuata* M. R. Tr, 6.VIII.1998; Utr, 28–29.V.1999; Bak, 26.VI.1999; Temizh, 4.VII.1999; NV, 5.VII.1999; Kav, 5.VII.1999; Kaz, 6.VII.1999.
149. *Dryodurgades reticulatus* (H.-S.). Suk, 20–21.VII.1999.
150. *D. sindicensis* Gnezd. Eliz, 21.VIII.1997; GK, 100–150 m, 14.IX.1997; MtL, 10.V.1997. Gnezdilov (1997b).
- Subfamily Megophthalminae Kirkaldy
151. *Megophthalmus scabripennis* Edw. Laz, 15.VI.1986; Utr, 28–29.V.1999; Bak, 28.VI.1999.
152. *M. scanicus* (F.). Pap, 18.VI.1998; Pseb, 19.VI.1999; Psek, 14.VI.1999. Gnezdilov (1999c).
- Subfamily Idiocerinae Baker
153. *Rhytidodus decimusquartus* (Schr.). Pokrov, 30.VI.1999; Psh, 23.VI.1997. Bogdanov-Katjkov (1921).
154. *Idiocerus herrichi* Kbm. SWDakh, 9.VII.1998; Kriv, 3.IX.1998; GK, 15–17.VII.1999; Suk, 22.VI.1999; Kaz, 6.VII.1999.
155. *I. lituratus* (Fall.). GK, 15.VII.1999; Kaz, 6.VII.1999; Kr, 21.VIII.1998.
156. *I. stigmatical* Lew. GK, 15.VII.1999.
157. *I. vicinus* Mel. Kr, 17.VIII.1998; Suk, 21.VI.1999.
158. *Stenidiocerus poecilus* (H.-S.). Kr, Kuban' River, 2.VII.1971 (L. Anufriev); Gel, 23–30.VI.1997; Pap, 18.VI.1998, at light. Gnezdilov (1999c).

159. *Tremulicerus vitreus* (F.). SWDakh, 9.VII. 1998; GK, 3–4.IX.1997. Gnezdilov (1999c).
160. *T. tremulae* (Estl.). Utr, 16.VI.1997; GK, 3–4.IX.1997; Pseb, 21.VI.1999; Psek, 14.VI.1999; Suk, 22.VI.1999. Gnezdilov (1999c).
161. *Viridicerus ustulatus* (M. R.). Suk, 21–22.VI.1999; Psek, 14.VI.1999; GK, 15.VII.1999.
162. *Populicerus albicans* (Kbm.). GK, 3–4.IX. 1998; Kaz, 6.VII.1999. Gnezdilov (1999c).
163. *P. confusus* (Fl.). SWPseb, 1700 m, 26.VII. 1998; SWDakh, 9.VII.1998. Gnezdilov (1999c).
164. *P. laminatus* (Fl.). MtL, 900 m, 28.VI.1997; Pap, 18.VI.1998; Pseb, 21.VI.1999. Gnezdilov (1999c).
165. **P. populi* (L.). Markotkh Range; Maykop (Bogdanov-Katjkov, 1921).
166. *Acericerus heydenii* (Kbm.). Lyg, 4.II.1972 (L. Anufriev); GK, 17.VII.1999.
167. *A. rotundifrons* (Kbm.). Gel, 30.VIII.1997; Ubin, 600 m, 28.VIII.1997; Les, 30.VIII.1998; Kriv, 3.IX.1998; Suk, 20.VI.1999; GK, 17.VI.1999, 16.VII. 1999.
168. *A. vittifrons* (Kbm.). Smol, 16.V.1997; Krep, 5.VI.1997; Ubin, 600 m, 3.VI.1997; Les, 30.VIII.1998; Kriv, 3.IX.1998; Gel, 15–30.VI.1908 (N. Vorobyev); Temizh, 4.VII.1999; Suk, 20.VI.1999; GK, 17.VII. 1999. Gnezdilov (1999c).
169. *Balcanocerus larvatus* (H.-S.). Novr, 25.VII. 1997; Bak, 26–27.VI.1999. Gnezdilov (1999c).
170. *B. pruni* (Rib.). Gel, 30–31.VIII.1997; Temizh, 4.VII.1999; Kav, 5.VII.1999; Suk, 20.VI.1999.
171. *Hespericerus brusinae* (Horv.). Gel, 23–24.VI. 1997; Utr, 28–29.V.1999. Gnezdilov (1999a).
- Subfamily **Iassinae** Amyot et Serville
172. *Batracomorphus irroratus* Lew. Vrn, 5.VI. 1998; Gel, 23–24.VI.1997; Nat, 17.VI.1997; Pseb, 18.VI.1999; Bak, 26.VI.1999; Shab, 2.VII.1999; Kr, 15.VI.1999. Gnezdilov (1999c).
173. *Iassus lanio* (L.). Gel, 21.VII.1997; SWDakh, 9.VII.1998; Shun, 17.VI.1895 (Vyrzhikovskaya); Psek, 14.VI.1999; GK, 16.VI.1999, 17.VII.1999.
174. *I. scutellaris* (Fieb.). Suk, summer 1997 (D.Yu. Tishechkin).
- Subfamily **Penthimiinae** Kirschbaum
175. *Penthimia nigra* Goeze. Azov, 23.V.1997; GK, Pshaf Range, 16.VI.1956 (K. Arnoldi). Gnezdilov (1999c).
- Subfamily **Aphrodinae** Haupt
176. *Aphrodes bicinctus* (Schr.). NV, 3.VII.1997 (B.A. Korotyaev). Tishechkin (1998).
177. *A. costatus* (Panz.). GK, 15.VII.1999; SWPseb, 1700 m, 23–26.VII.1998; Tr, 2.VIII.1998.
178. *Anoscopus flavostriatus* (Don.). Vrn, 5.VI. 1998. Gnezdilov (1999c).
179. *A. samuricus* (Tshmir). Utr, 28–29.V.1999.
180. *Planaphrodes angulaticeps* (Em.) = *Aphrodes dobrogicus* Cantoreanu, 1968, syn. n. An, 200 m, 16.VI.1997; Gel, 23–24.VI.1997. Emeljanov (1964b).
181. **P. bifasciatus* (L.). Medvedovskaya Vill. (Bogdanov-Katjkov, 1921).
182. *P. monticola* Logv. SWPseb, 1900–2170 m, 23–27.VII.1998; Aib, 1900 m, 11.VII.1999; Pseb, 17.VI.1999; Guz, Tybga, 1750–2200 m, 25–30.VII. 1999. Gnezdilov (1999c).
183. *P. elongatus* (Leth.). Shab, 2.VII.1999.
184. *P. laeva* (Rey). Vin, 500 m, 22–23.VII.1997; Pseb, 18.VI.1999. Gnezdilov (1999c).
185. *P. vallicola* Logv. SWDakh, 9.VII.1998; Pseb, 16.VI.1999; Ubin, Sober-Bash Mt., 730 m, 12.VII. 1990 (V.I. Shchurov). Gnezdilov (1999c).
- Subfamily **Cicadellinae** Latreille
186. *Evacanthus acuminatus* (F.). Stav, 8.VI.1997; Ubin, 28.VIII.1997; Dakh, 15.VII.1997; Pseb, 16–18.VI.1999; Bak, 26.VI.1999; Kab, Markotkh Range, 3.VII.1956 (K. Arnoldi); Laz, 200–240 m, 2–3.VI. 1999; S, 7.VII.1927 (I. Gudim); Guz, 1700–1870 m, 27.VII.1999. Kolova (1996).
187. *E. interruptus* (L.). SWPseb, 1700–1900 m, 23–26.VII.1998; Dakhovsk, 10–11.VII.1998; Bez, 1870 m, 29.VII.1999; Aib, 1900 m, 11.VII.1999; Guz, 1700–1750 m, 25–27.VII.1999. Kolova (1996).
188. *Cicadella viridis* (L.). Mar, 850 m, 7–8.VI. 1999; S, 7.VII.1927 (I. Gudim); Pseb, 16–18.VI. 1999; Aib, 1900 m, 11.VII.1999; Sup, 14.IX.1999 (V.I. Shchurov). Bogdanov-Katjkov (1921).

- Subfamily **Typhlocybinae** Kirschbaum
189. *Alebra albostriella* (Fall.). GK, 16.VI.1999, 17.VII.1999.
190. *Liguropia juniperi* (Leth.). Utr, 25.VI.1998, 20.VI.1999; Kab, 28.VI.1998. Gnezdilov (1999c).
191. *Emelyanoviana alexandri* Logv. = *Emelyanoviana naylae* Abdul-Nour, 1986, syn. n. Aib, 1900 m, 11.VII.1999. Logvinenko (1981).
192. *E. mollicula* (Boh.). Azov, 23.V.1997; Obl, 450–500 m, 23.VI.1997; Vin, 22–23.VII.1997; Novr, 25.VII.1997; Bak, 27.VI.1999; Gel, 21.VII.1997; Dakhovsk, 10.VII.1998; Kam, 13.VII.1998; SWPseb, 1700–1900 m, 23–26.VII.1998; Ubin, 28.VIII.1997 [erroneously referred to 28.VII.1997 in the Russian text (auth.)]; Bez, 1870 m, 29.VII.1999. Kolova (1996).
193. *Micantulina (Mulsantina) stigmatipennis* (M. R.). Azov, 23.V.1997; An, 16.VI.1997; Novr, 25.VII.1997; Bak, 26.VI.1999. Gnezdilov (1999c).
194. *Wagneriala sinuata* (Then.). GK, 16.VI.1999, 17.VII.1999.
195. *Forcipata euxina* Gnezd. KP, 800–1500 m, 12.VII.1999; GK, 16.VI.1999, 17.VII.1999. Gnezdilov (2000).
196. *F. flava* Vid. Kam, 13.VII.1998; SWPseb, 2170 m, 27.VII.1998; Guz, Tybga, 1750–2200 m, 25–30.VII.1999. Gnezdilov (1999c, 2000).
197. *Kybos ludus* Dav., DeL. SWPseb, 1700 m, 24–26.VII.1998.
198. *K. populi* (Edw.). Pseb, 19.VI.1999.
199. *K. rufescens* (Mel.). GK, 15.VII.1999.
200. *K. volgensis* Vilb. Kr, 17.VIII.1998; Pseb, 16.VI.1999; GK, 3–4.IX.1998, 15.VII.1999. Recently, has been erroneously recorded as *K. strigilifer* (Oss.) (Gnezdilov, 1999c).
201. *Empoasca affinis* Nast. GK, 15.VII.1999.
202. *E. decipiens* Paoli. Tp, 10–18.VIII.1921 (Gorshkovsky); Laz, 9.VI.1986; GK, 15.VII.1999. Kolova (1996).
203. *E. pteridis* (Dhlb.). Karab, 4–5.VIII.1998; Laz, 14.VII.1986; GK, 15.VII.1999. Gnezdilov (1999c).
204. *E. vitis* (Göthe). SWPseb, 1700–1900 m, 23–26.VII.1998; Kam, 13.VII.1998; Aib, 1900 m, 11.VII. 1999; GK, 15.VII.1999; Guz, Tybga, 1750–2400 m, 25–30.VII.1999; Utr, 28–29.V.1999. Gnezdilov (1999c).
205. *Astroasca (Astroasca) vittata* (Leth.). Pseb, 17.VI.1999; Bak, 26.VI.1999; GK, 15.VII.1999. Kolova (1996).
206. *Chlorita alticola* Logv. SWPseb, 2000–2170 m, 24–25.VII.1998. Logvinenko (1966).
207. *Ch. paolii* Oss. NV, 24.V.1999.
208. *Ch. prasina* Fieb. Karab, 4–5.VIII.1998; Shab, 1.VII.1999. Gnezdilov (1999c).
209. *Ch. thymi* Em. Bak, 25.VI.1998. Gnezdilov (1999c).
210. *Eremochlorita korovini* Zachv. Chern, 11.VIII.1997; Verkhn, 12.VIII.1997; Golub, 3.VIII.1998; Pokrov, 30.VI.1999. Recently was erroneously recorded as *E. tessellata* Leth. (Gnezdilov, 1999c).
211. *Fagocyba cruenta* (H.-S.). Pseb, 16–18.VI.1999; SWPseb, 1600 m, 26.VII.1998; Aib, 1900 m, 10–11.VII.1999; Mar, 550 m, 6.VI.1999; Guz, 1700–1750 m, 25–27.VII.1999; GK, 16.VI.1999, 17.VII.1999. Gnezdilov (1999c).
212. *Edwardsiana bergmani* (Tull.). SWPseb, 1700 m, 24.VII.1998. Gnezdilov (1999c).
213. *E. crataegi* Dougl. Temizh, 4.VII.1999.
214. *E. frustrator* (Edw.). Bez, 1870 m, 29.VII.1999; Pseb, 18.VI.1999; GK, 16.VI.1999.
215. *E. ionicerae* Mit. GK, 16.VI.1999.
216. *E. pseudoplatani* Logv. GK, 16.VI.1999. Logvinenko (1966).
217. **E. ruthenica* Zachv. Krymskii Distr., Gorny Vill. (Logvinenko, 1967).
218. *E. spinigera* (Edw.). Pseb, 18.VI.1999; GK, 16.VI.1999 [erroneously omitted in the Russian text (auth.)].
219. **E. trigonometrica* Logv. Valley of Urushten River (Logvinenko, 1966).
220. *Linnauoriana decempunctata* Fall. Bez, 1870 m, 29.VII.1999.
221. *L. sexmaculata* (Hardy). Pseb, 500 m, 16.VI.1999.
222. *Ribautiana scalaris* (Rib.). Pap, 18.VI.1998. Gnezdilov (1999c).

223. *R. tenerrima* (H.-S.). NEL, 160 m, 4.VI.1999; GK, 16.VI.1999.
224. *R. ulmi* (L.). Pap, 18.VI.1998; Aib, 1900 m, 11.VII.1999; Pseb, 16.VI.1999; Bak, 27.VII.1999; NEL, 200 m, 5.VI.1999. Kolova (1996).
225. *Typhlocyba (Zonocyba) bifasciata* (Boh.). MtL, 700–800 m, 10.V.1997. (Gnezdilov, 1999c).
226. *T. (Typhlocyba) quercus* (F.). GK, 150 m, 16.VI.1999.
227. *Eurhadina concinna* (Germ.). Pras, summer 1997 (D.Yu. Tishechkin).
228. **E. donata* Logv. Upper reaches of Bolshaya Laba River (Logvinenko, 1978).
229. *E. kirschbaumi* Wagn. GK, 16.VII.1999.
230. *E. loewii* (Then). Aib, 1900 m, 11.VII.1999.
231. *E. ribauti* Wagn. Guz, 1750 m, 25.VII.1999.
232. *Eupteryx adspersa* H.-S. Pseb, 17.VI.1999.
233. *E. assectator* Logv. Kam, 13.VII.1998; Dakhovsk, 10.VII.1998; SWPseb, 1700 m, 24.VII.1998; Aib, 1900 m, 11.VII.1999; Guz, Tybga, 1750–2200 m, 25–28.VII.1999. Logvinenko (1966), Kolova (1996).
234. *E. atropunctata* (Goeze). Azov, 23.V.1997; MtL, 28.VI.1997; Shab, 1.VII.1999; Kam, 13.VII.1998; Dakhovsk, 10.VII.1998; Shun, 9.IX.1955 (Gar-novskaya); Aib, 1900 m, 10–11.VII.1999; Guz, 1700–1950 m, 25–27.VII.1999. Kolova (1996).
235. **E. cyclops* Mats. Caucasian Reserve (Kolova, 1996).
236. *E. egregia* Logv. SWPseb, 1700 m, 26.VII.1998; KP, Aib, 800–1900 m, 11–12.VII.1999. Logvinenko (1981), Gnezdilov (1999c).
237. *E. florida* Rib. NEL, 160 m, 4.VI.1999; Aib, 1900 m, 11.VII.1999.
238. **E. formaster* Logv. Caucasian Reserve, Sennaya glade, Kisha River (Logvinenko, 1966).
239. *E. ? lelievrei* (Leth.). Aib, 1900 m, 11.VII.1999.
240. *E. origani* Zachv. Pseb, 17.VI.1999; Guz, 1750 m, 25.VII.1999.
241. *E. praestabilis* Logv. GK, 14.IX.1997; Laz, 3.VI.1999. Logvinenko (1966), (Gnezdilov, 1999c).
242. *E. stachydearum* (Hardy). NEL, 160 m, 4.VI.1999; GK, 15.VII.1999.
243. *E. tenella* (Fall.). GK, 16.VI.1999, 15.VII.1999.
244. *Aguriahana germari* (Zett.). Pap, 18.VI.1998; Pseb, 21.VI.1999; Bez, 1900 m, 29.VII.1999; MtL, 28.VI.1997. Gnezdilov (1999c).
245. *Zygarella pulchra* Löw. GK, 16.VII.1999.
246. *Zyginidia eremita* Zachv. Stav, 8.VI.1997; Vrn, 14.VI.1997, 6.VII.1999; SWPseb, 1700 m, 23–26.VII.1998; Pseb, 16–17.VI.1999; SWDakh, 9.VII.1998; Bug, 17.VIII.1997; Kr, 21.VIII.1998, 15.VI.1999; GK, 14.IX.1997, 16.VI.1999, 15.VII.1999; Utr, 28–29.V.1999; Bak, 26.VI.1999; Shab, 1.VII.1999; Laz, 19.VI.1986, 200–240 m, 2–3.VI.1999; Mar, 550–850 m, 6–9.VI.1999; Psek, 14.VI.1999; Suk, 20.VI.1999; Dakhov, 24.VII.1999; Guz, Tybga, 1700–2200 m, 25–28.VII.1999; [erroneously recorded from Bez, to 1700 m, 31.VII.1999 in the Russian text (auth.)]; NV, 5.VII.1999; Aib, 1900 m, 11.VII.1999; Temizh, 4.VII.1999; Kav, 5.VII.1999; Kaz, 6.VII.1999. Kolova (1996). Recently, has been erroneously recorded as *Z. sohrab* Zachv. (Gnezdilov, 1999c).
247. *Zygina angusta* Leth. GK, 3–4.IX.1998, 15.VII.1999. Gnezdilov (1999c).
248. *Z. flammigera* Geoffr. GK, 3–4.IX.1998, 16.VII.1999. Gnezdilov (1999c).
249. *Z. nivea* (M. R.). GK, 3–4.IX.1998, 15.VII.1999; Suk, 21.VI.1999; Kaz, 6.VII.1999. Gnezdilov (1999c).
250. *Z. rhamni* Ferr. Laz, 27.IX.1985 (A.G. Kireitshuk).
251. *Arboridia parvula* (Boh.). MtL, 28.VI.1997; Shebsh, 5.VIII.1997; GK, 3–4.IX.1998, 15–17.VII.1999; Laz, 27.IX–2.X.1985 (A.G. Kireitshuk); Mar, 550 m, 6.VI.1999; Bak, 27.VII.1999; Temizh, 4.VII.1999; Aib, 1900 m, 11.VII.1999. Gnezdilov (1999c).
252. *A. kakogawana* Mats. GK, 15–17.VII.1999.
253. *Fruticidia bisignata* (M. R.). Tp, 7–17.IX.1921 (Gorchakovskiy); GK, 3–4.IX.1998, 16.VI.1999, 17.VII.1999; Bak, 26.VI.1999; Temizh, 4.VII.1999; Kaz, 6.VII.1999. Gnezdilov (1999c).
254. *Tamaricella ribauti* (Zachv.). Priz, 14.VIII.1997. Gnezdilov (1999c).
- Subfamily Deltoccephalinae Fieber
255. *Glossocratus foveolatus* Fieb. Vrn, 14.VI.1997. Gnezdilov (1999c).

256. *Eupelix cuspidata* (F.). Stav, 8.VI.1997; Gel, 23–24.VI.1997; Pseb, 600 m, 16–18.VI.1999; Bak, 27.VII.1999; Temizh, 4.VII.1999; Kaz, 6.VII.1999; Kr, 15.VI.1999; NV, 5.VII.1999.
257. *Selenocephalus obsoletus* (Germ.). Ashe, 26.VI.1904 (Borodin); Var, 24.VI.1924 (G. Gitterman) [erroneously referred to 24.VI.1922 in the Russian text (auth.)]; Gel, 20–25.VIII.1908, 1.VII.1910 (N. Vorobyev); Dzhan, 2.VII.1956 (K. Arnoldi); E, 30.VI.1931 (A.A. Lyubishchev); Kr, 22.V.1910, 7.VI.1912; Neb, 16–18.VIII.1924 (G. Gitterman); Novr, 24.VII.1997 [erroneously referred to 24.VI.1997 in the Russian text (auth.)]; Vin, 22–23.VII.1997; Shebsh, 557 m, 6.VIII.1997; Bet, 19–20.VIII.1997; Tr, 2.VIII.1998; Laz, 22–26.VII.1952, 15–20.VIII.1952 (Rudolf); Bak, 26.VI.1999; Temizh, 4.VII.1999; Kav, 5.VII.1999; Suk, 21.VI.1999. Bogdanov-Katjkov (1921), Gnezdilov (1999c).
258. *S. pallidus* Kbm. Gel, 20–25.VIII.1908, 1–15.VII.1910 (N. Vorobyev); Dzhub, 5.VII.1912 (Bogdanov-Katjkov); Laz, 22–26.VII.1952, 15–20.VIII.1952 (Rudolf); C, 6.VIII.1927 (I. Gudim); Neb, 30.VII.1927 (B.V. Dobrovolsky); Kr, 21.VII.1910; Novr, 25.VII.1997; Bet, 19–20.VIII.1997; Shebsh, 6.VIII.1997; Suk, 20.VI.1999; NV, 5.VII.1999. Gnezdilov (1999c).
259. *Goniagnathus (Goniagnathus) brevis* (H.-S.). Stav, 8.VI.1997; Ubin, 3.VI.1997; Novr, 28.VII.1997; Dzhan, 28.V.1956 (K. Arnoldi); Gel, 30–31.VIII.1997; Bet, 20.VIII.1997; Tr, 4–5.VIII.1998; Suk, 21.VI.1999; Utr, 20.VI.1999.
260. *Opsiush stactogalus* Fieb. GK, 16.VII.1999; Shab, 1–3.VII.1999. Gnezdilov (1999c).
261. *Neoaliturus (Neoaliturus) fenestratus* (H.-S.). Smol, 9.X.1996; Stav, 8.VI.1997; Vrn, 14.VI.1997; Vin, 29.VI.1998; Pseb, 16–18.VI.1999; Gel, 21.VII.1997; Suk, 21.VII.1999; Bez, 1900 m, 30.VII.1999.
262. *Fieberiella lugubris* Em. Gel, 30–31.VIII.1997; Utr, 28–29.V.1999. Emeljanov (1964b).
263. *F. septentrionalis* Wagn. Smol, 16.V.1997; Azov, 23.V.1997; Stav, 8.VI.1997; Ubin, 3.VI.1997, 28.VIII.1997; Shebsh, 6.VIII.1997; GK, 15–17.VII.1999; Pseb, 18–19.VI.1999; Temizh, 4.VII.1999; Kav, 5.VII.1999; Eliz, 21.VIII.1997. Gnezdilov (1999c).
264. *Synophropsis lauri* (Horv.). Doob, 18.VIII.1997; Bet, 19–20.VIII.1997; Laz, 27.IX–2.X.1985 (A.G. Kireitshuk); Kr, 26.VII.1970 (V. Vorontsova). Gnezdilov (1999c).
265. *Phlogotettix cyclops* (M. R.). GK, 14.IX.1997; Kr, 21.VIII.1998; Suk, 21.VI.1999. Gnezdilov (1999c).
266. *Balclutha punctata* (F.). MtL, 28–29.VI.1997; SWPseb, 1700 m, 24.VII.1998; Pseb, 18.VI.1999; Laz, 200–240 m, 2–3.VI.1999; SSELaz, 1.VII.1998; NEL, 200 m, 5.VI.1999; Dakhov, 24.VII.1999; Guz, Tybga, 1700–2200 m, 25–28.VII.1999; GK, 16.VI.1999, 17.VII.1999; Aib, 1850–1900 m, 9–11.VII.1999. Kolova (1996).
267. *Macrosteles alpinus* Zett. Bez, 1870 m, 29.VII.1999.
268. *M. fiebleri* (Edw.). Kr, 27.VI.1924 (G. Gitterman).
269. *M. laevis* (Rib.). Utr, 16.VI.1997; MtL, 28.VI.1997; SWPseb, 1700 m, 23–26.VII.1998; Aib, 1900 m, 11.VII.1999. Kolova (1996).
270. *M. salsolae* (Put.). Golub, 3.VIII.1998. Gnezdilov (1999c).
271. *M. sexnotatus* (Fall.). Stav, 8.VI.1997; S, 13.VIII.[?].
272. *M. variatus* (Fall.). GK, 3–4.IX.1998.
273. *M. viridigriseus* (Edw.). Stav, 8.VI.1997; GK, 15–17.VII.1999. Kolova (1996).
274. *Sagatus punctifrons* (Fall.) Kr, 19.VI.1908 (Borisov); GK, 15.VII.1999. Gnezdilov (1999c).
275. *Exitianus nanus* (Dist.). Pap, 18.VI.1998; Utr, 16.VI.1997; SWPseb, 1900 m, 24.VII.1998; Golub, 3.VIII.1998; Pokrov, 6.IX.1998. Gnezdilov (1999c).
276. *Doraturopsis (Doraturopsis) heros* (Mel.). Shab, 1.VII.1999.
277. *Doratura concors* Horv. Kab, 24.VII.1997; Vin, 28–29.VII.1998; Gel, 23–30.VI, 21.VII.1997; Kuch, 13.VIII.1997. Gnezdilov (1999c).
278. *D. exilis* Horv. Vin, 28–29.VII.1998; Ubin, 700 m, 28.VII.1997; Pseb, 18.VI.1999; Shab, 1.VII.1999; Kr, 15.VI.1999 [erroneously referred to Eysk (E) in the Russian text (auth.)]; Psek, 14.VI.1999; Suk, 21.VI.1999. Gnezdilov (1999c).
279. *D. homophyla* (Fl.). Karab, 14.VIII.1997; Vrn, 14.VI.1997; Gel, 23–24.VI.1997; Pan, 15.VIII.1997; Tr, 2.VIII.1998; Psek, 14.VI.1999; NV, 5.VII.1999; Shab, 1.VII.1999. Gnezdilov (1999c).
280. *D. impudica* Horv. Novr, 25.VII.1997; Gel, 21.VII.1997. Gnezdilov (1999c).

281. *D. salina* Horv. Golub, 3.VIII.1998; Shab, 2.VII.1999. Gnezdilov (1999c).
282. *D. stylata* (Boh.). Stav, 8.VI.1997; Tr, 2.VIII.1998; Kr, 15.VI.1999; Dakhov, 24.VII.1999; NV, 5.VII.1999. Gnezdilov (1999c).
283. *Aconurella prolixa* (Leth.). Pseb, 16–18.VI.1999; Guz, Tybga, 1870–2200 m, 27–28.VII.1999.
284. *Aconura jakowlefi* Leth. Golub, 3.VIII.1998, 30.V.1999; Shab, 2.VII.1999. Gnezdilov (1999c).
285. *Recilia schmidtgeni* (Wagn.). Verkhn, 12.VIII.1997; Kuch, 13.VIII.1997; Shab, 1.VII.1999. Kolova (1996), Gnezdilov (1999c).
286. *Deltocephalus pulicaris* (Fall.). Stav, 8.VI.1997; Shebsh, 6.VIII.1997; SWPseb, 1700–2170 m, 23–27.VII.1998; Pseb, 18.VI.1999; Bez, 1900 m, 30.VII.1999; Aib, 1900 m, 10–11.VII.1999; Psek, 14.VI.1999; Dakhov, 24.VII.1999; Guz, Tybga, 1750–2200 m, 25–28.VII.1999; GK, 15.VII.1999. Kolova (1996).
287. *Anoterostemma ivanoffi* (Leth.). Golub, 30.V.1999; Shab, 1.VII.1999.
288. *Japananus hyalinus* (Osb.). Gel, 500 m, 30.VIII.1997; Shebsh, 200 m, 7.VIII.1997; Les, 30.VIII.1998; Suk, 20.VI.1999; GK, 15–17.VII.1999; Kaz, 6.VII.1999. Gnezdilov (1999c).
289. *Proceps acicularis* M. R. Gel, 23–24.VI.1997, 21.VII.1997; Pap, 18.VI.1998; Utr, 28–29.V.1999; Bak, 26.VI.1999. Gnezdilov (1999c).
290. *Idiodonus cruentatus* (Panz.). Ab, 20.IX.1909 (Filatov).
291. *Anoplotettix loewi* (Horv.). Vin, 22–23.VII.1997; MtL, 28.VI.1997; Dakhovsk, 10.VII.1998; Pseb, 21.VI.1999; Bak, 25.VI.1998, 27.VI.1999; GK, 15–17.VII.1999. Gnezdilov (1999c).
292. *Platymetopius guttatus* Fieb. Novr, 24.VIII.1997. Gnezdilov (1999c).
293. *P. undatus* (De G.). Pseb, 18.VI.1999; Bak, 27.VI.1999; Temizh, 4.VII.1999; Suk, 20.VI.1999.
294. *Phlepsius intricatus* (H.-S.). GK, 14.IX.1997; Utr, 28–29.V.1999; Temizh, 4.VII.1999; NV, 5.VII.1999; Kav, 5.VII.1999; Aib, 1850–1900 m, 9–11.VII.1999; Laz, 13.VIII.1952 (Rudolf). Gnezdilov (1999c).
295. *Allygus mixtus* (F.). Temizh, 4.VII.1999.
296. *Allygidius alanensis* Gnezd. Shebsh, 557 m, 6.VIII.1997; Ubin, 700 m, 28.VIII.1997; Neb, 18.VIII.1924 (G. Gitterman); Laz, 27.IX–2.X.1985 (A.G. Kireitshuk); Temizh, 4.VII.1999; Kav, 5.VII.1999. Gnezdilov (1997b).
297. *A. atomarius* (F.). Stav, 8.VI.1997; Shebsh, 6.VIII.1997. Gnezdilov (1999c).
298. *A. commutatus* (Fieb.). Ubin, 3.VI.1997; MtL, 28.VI.1997. Gnezdilov (1999c).
299. *A. mayri* (Kbm.). Gel, 23–24.VI.1997; NV, 2.VII.1997 (B.A. Korotyaev); Dub, 17.VIII.1997; Bet, 19–20.VIII.1997; Doob, 18.VIII.1997; GK, 14.IX.1997. Gnezdilov (1999c).
300. *Spseudotettix subfuscus* (Fall.). Smol, 16.V.1997; Ubin, 3.VI.1997; Shebsh, 557 m, 6.VIII.1997; Pseb, 16.VI.1999 [erroneously recorded from Psebay, 16–18.VI.1998 in the Russian text (auth.)]; Utr, 28–29.V.1999; Laz, 200–240 m, 2–3.VI.1999; Mar, 850 m, 7–8.VI.1999; Guz, 1700 m, 27.VII.1999. Gnezdilov (1999c).
301. *Hesium domino* (Reut.). SWPseb, 1700 m, 23–26.VII.1998; Dakhovsk, 10–12.VII.1998; Guz, 1750–1950 m, 25–27.VII.1999; Bez, 1900 m, 30.VII.1999. Gnezdilov (1999c).
302. *Macustus griseascens* (Zett.). Smol, 16–21.V.1997; Azov, 23.V.1997; Stav, 8.VI.1997; Lab, 18.VI.1911 (Volnukhin); SWPseb, 1700–1900 m, 24–26.VII.1998; Guz, 1750–1870 m, 25–29.VII.1999. Gnezdilov (1999c).
303. *Thamnotettix (Thamnotettix) confinis* Zett. SWPseb, 1700 m, 26.VII.1998; Bez, 1870 m, 29.VII.1999; Dakh, 15.VII.1997; Pseb, 21.VI.1999; Guz, 1700 m, 27.VII.1999. Kolova (1996). Gnezdilov (1999c).
304. *T. (Laepotettix) dilutior* (Kbm.). Ubin, 3.VI.1997; Gel, 14.IX.1997; Dzhan, 5.VI.1956 (K. Arnoldi); Suk, 20.VI.1999; Utr, 28–29.V.1999; Pseb, 16–18.VI.1999; Laz, 200–240 m, 2–3.VI.1999. Gnezdilov (1999c).
305. *Stictocoris picturatus* (C. Shlb.). Vrn, 14.VI.1997; Dakhovsk, 12.VII.1998; Pseb, 17–18.VI.1999; Bak, 26.VI.1999; Shab, 1.VII.1999; Kr, 15.VI.1999; NV, 5.VII.1999. Gnezdilov (1999c).
306. *Paluda flaveola* (Boh.). SWPseb, 1700–1900 m, 24–26.VII.1998 [erroneously referred to 25–28.VII.1999 in the Russian text (auth.)]; Guz, Tybga, 1750–2200 m, 25–28.VII.1999 [erroneously omitted in the Russian text (auth.)]. Gnezdilov (1999c).

307. *Rhopalopyx vitripennis* (Fl.). Gel, 21.VII.1997; Vin, 22.VII.1997; Bak, 26.VI.1999. Gnezdilov (1999c).
308. *Cicadula frontalis* (H.-S.). Psek, 14.VI.1999.
309. *C. placida* (Horv.). Shab, 1.VII.1999; Pokrov, 30.VI.1999.
310. *C. quadrinotata* (F.). Pap, 18.VI.1998; SWDakh, 9.VII.1998; GK, 26.IX.1996; Bez, 1870 m, 29.VII.1999; Aib, 1900 m, 10–11.VII.1999; Pseb, 18.VI.1999; Guz, 1700–1870 m, 25–27.VII.1999. Kolova (1996), Gnezdilov (1999c).
311. *Mocydia aegea* A.-N. Gel, 30.VIII.1997 [erroneously referred to 30.VII.1997 in the Russian text (auth.)]; Vrn, 5.VI.1998; Temizh, 4.VII.1999.
312. *Mocydiopsis monticola* Rem. GK, 26.IX.1996, 14.IX.1997, 15.VII.1999.
313. *M. longicauda* Rem. Shebsh, 557 m, 6.VIII.1997; Dub, 17.VIII.1997; Sup, 14.IX.1999 (V.I. Shchurov).
314. *Taurotettix beckeri* (Fieb.). Gel, 23–24.VI.1997; Kab, Kabardinskii Pass, 450–500 m, 23.VII.1997; Novr, 25.VII.1997; Bak, 26.VI.1999. Gnezdilov (1999c).
315. *Ophiola decumana* (Kont.). Stav, 8.VI.1997; Psek, 18.VI.1999. Gnezdilov (1999c).
316. *Limotettix striola* (Fall.). Tr, 2.VIII.1998; Karab, 5.VIII.1998. Gnezdilov (1999c).
317. *Eohardya fraudulentia* (Horv.). Stav, 8.VI.1997; Nat, 17.VI.1997; An, 18.VI.1997; Utr, 28–29.V.1999; Bak, 27.VII.1999. Gnezdilov (1999c).
318. *Hardya tenuis* (Germ.). Sup, 14.IX.1999 (V.I. Shchurov).
319. *Laburrus (Laburrus) handlirschi* (Mats.). Kuch, 13.VIII.1997; Shab, 1.VII.1999; Pokrov, 30.VI.1999; NV, 5.VII.1999; Kaz, 6.VII.1999. Gnezdilov (1999c).
320. *L. (L.) kuznetsovi* Em. Pan, 15.VIII.1997.
321. *L. (Esolanus) pellax* (Horv.). Nat, 17.VI.1997; Gel, 23–24.VI.1997, 21.VII.1997; Vin, 22.VII.1997; Dub, 17.VIII.1997; Tr, 2.VIII.1998; Bak, 26.VI.1999. Gnezdilov (1999c).
322. *Athysanus argentarius* Metc. SWDakh, 9.VI.1998. Gnezdilov (1999c).
323. *Handianus flavovarius* H.-S. SWDakh, 9.VII.1998; Psek, 17.VI.1999. Kolova (1996).
324. *H. limonii* Em. Golub, 3.VIII.1998; Karab, 4.VIII.1998. Gnezdilov (1999c).
325. *H. procerus* (H.-S.). Vol, 6.VIII.1998. Gnezdilov (1999c).
326. *Euscelis incisus* (Kbm.). Nat, 17.VI.1997; Novr, 25.VII.1997; Vin, 22–23.VII.1997; Gel, 30–31.VIII.1997; An, 16.VI.1997; SWPseb, 1900–2100 m, 25.VII.1998; Bak, 26.VI.1999; Shab, 2.VII.1999; Temizh, 4.VII.1999; Kr, 15.VI.1999; Dakhov, 24.VII.1999; Utr, 20.VI.1999; NV, 5.VII.1999; GK, 15.VII.1999; Kaz, 6.VII.1999; Kav, 5.VII.1999; S, 27–29.VI.1900 (Bykov).
327. *E. caucasicus* Em. KP, Aib, 800–2300 m, 10–12.VII.1999; Mar, 1100 m, 7–8.VI.1999; Guz, 1700–1870 m, 27.VII.1999; Kisha, 18.VI.1911 (Volnukhin). Kolova (1996).
328. *Graphocraerus ventralis* (Fall.). Pseb, 18.VI.1999; Bak, 26.VI.1999; Shab, 1.VII.1999; Kr, 15.VI.1999; Psek, 14.VI.1999; NV, 24.V.1999.
329. *Artianus manderstjernii* (Kbm.). Pan, 15.VIII.1997; Dub, 17.VIII.1997; Doob, 18.VIII.1997; Gel, 23–24.VI.1997, 21.VII.1997; Vin, 22–23.VII.1997; Tr, 2.VIII.1998; Golub, 3.VIII.1998; Bak, 26.VI.1999. Gnezdilov (1999c).
330. *Paralimnus phragmitis* (Boh.). Pokrov, 30.VI.1999.
331. *P. picturatus* Hpt. Shab, 2.VII.1999.
332. *Metalimnus steini* (Fieb.). Psek, 14.VI.1999. Kolova (1996).
333. *Aglena ornata* (H.-S.). Karab, 23.VI.1997 (B.A. Korotyaev), 5.VIII.1998; Shab, 1.VII.1999; Golub, 30.V.1999. Gnezdilov (1999c).
334. *Paraglena paludosa* (Rib.). Golub, 3.VIII.1998; Karab, 4–5.VIII.1998; Shab, 1.VII.1999. Gnezdilov (1999c).
335. *Paramesus major* Hpt. Tr, 2.VIII.1998; Golub, 3.VIII.1998; Karab, 4–5.VIII.1998; Pokrov, 30.VI.1999; Shab, 1.VII.1999. Gnezdilov (1999c).
336. *Calamotettix taeniatus* (Horv.). Pokrov, 30.VI.1999.
337. *Mocuellus collinus* (Boh.). Vrn, 14.VI.1997; An, 16.VI.1997; Gel, 23–24.VI.1997, 21.VII.1997; Kab, 28.VI.1998; Kuch, 13.VIII.1997; Pan, 15.VIII.1997.
338. *M. quadricornis* Dlab. Golub, 30.V.1999.

339. *Enantiocephalus cornutus* (H.-S.). Shab, 1.VII.1999; Kaz, 6.VII.1999 [erroneously referred to 6.VIII.1999 in the Russian text (auth.)].
340. *Emeljanovianus signatus* (Hpt.). Obl, 450–500 m, 23.VI.1997; Gel, 23–24.VI.1997; Vin, 500 m, 22–23.VII.1997; Novr, 25.VII.1997; Pseb, 17–18.VI.1999; Guz, 1950 m, 26.VII.1999.
341. *Praganus hofferi* (Dlab.). Kuch, 13.VIII.1997. Gnezdilov (1999c).
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357. *D. (V.) ciscaucasicus* Em. MtL, 800 m, 28–29.VI.1997; Dakh, 15.VII.1997; Pseb, 17.VI.1999; Guz, 1950 m, 26.VII.1999. Kolova (1996), Gnezdilov (1999c).
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359. *D. (V.) parcanicus* Dlab. Obl, 450–500 m, 23.VI.1997; Gel, 23–24.VI.1997; An, 200 m, 16.VI.1997; Bak, 27.VII.1999. Gnezdilov (1999c).
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362. *Arocephalus languidus* (Fl.). Shebsh, 6.VIII.1997; Pseb, 18.VI.1999. Gnezdilov (1999b, 1999c).
363. *Psammotettix atropidis* Em. Golub, 3.VIII.1998, 30.V.1999 [erroneously referred to 30.VI.1999 in the Russian text (auth.)]. Gnezdilov (1999c).
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371. *P. salsuginosus* Logv. Golub, 3.VIII.1998, 30.V.1999 [erroneously referred to 30.VI.1999 in the Russian text (auth.)]; Pokrov, 30.VI.1999; Shab, 2.VII.1999. Gnezdilov (1999c).

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Faunistic Complexes

The predominance of broad oligophages of grasses and polyphages is characteristic of the complexes of subalpine and alpine meadows; these include *Kelisia ribauti*, *Dicranotropis divergens*, *Scorlupella medea*, *Philaronia petrovi*, *Forcipata flava*, *Eupteryx assecator*, *Chlorita alticola*, *Planaphrodes monticola*, *Macrosteles alpinus*, *M. laevis*, *Paluda flaveola*, *Diplocolenus caucasicus*, *D. intermedius*, *Psammotettix cephalotes*. Here a group of species recorded only in the communities of subalpine—alpine meadows stands out: *Chlorita alticola*—Caucasian endemic species; *Forcipata flava*—outside the Caucasus recorded from

the piedmont regions of Alps in northern Italy (Vidano, 1965); *Macrosteles alpinus*—a Holarctic species, typical of the moist mountain meadow and tundra communities (Vilbaste, 1969; Günthart, 1997; Hamilton, 1997). *Paluda flaveola* is a superatlantic species occurring in Europe in diverse types of communities, including oatfields (Raatikainen and Vasanainen, 1976); *Psammotettix cephalotes*—a panatlantic species, also widely distributed in plain and mountain regions of Europe, reaching in the Alps an altitude of 2250 m (Günthart, 1987). The species represented, in addition to the alpine and subalpine communities, only in the low-mountain meadow communities: *Dicranotropis divergens*, a European-Scythian species; *Planaphrodes monticola*—boreo-alpine; *Eupteryx assecator*—Caucasian; *Aconurella prolixa*—Palaearctic-Ethiopian. European species with ranges limited to the European nemoro-se region on the whole and Palaearctic species with wide ranges occupying oceanic and continental areas of the Palaearctic prevail in the general chorological spectrum.

In the complex of oak-hornbeam forests, *Cixius rufus*, *Mycterus ovifrons*, *Dicranotropis hamata*, *Iassus lanio*, *Macropsis scutellata*, *Populicerus laminationis*, *Acericerus vittifrons*, *Forcipata euxina*, *Alebra albostriella*, *Edwardsiana frustrator*, *E. spinigera*, *Eupteryx praestabilis*, *Evacanthus acuminatus*, *E. interrup tus*, *Fieberiella septentrionalis*, *Phlogotettix cyclops*, *Thamnotettix confinis*, *Speudotettix subfuscus*, *Mocydiopsis monticola*, *Allygidius alanensis* should be noted as characteristic species. On the whole, the dominant position belongs to European (with considerable number of Euxinian endemics—18 species, the maximum number among the considered formations) and Palaearctic species, with transpalaearctic species prevailing among these.

The predominance of grass oligophages and polyphages is characteristic of the submediterranean forests complex. The stenotopic group consists of the species occurring throughout their entire range in the semiarid and arid habitats; it is characterized by the presence of only xeromesophilous and transitional to xerophilous ecological groups of species, and by small number of oligophages (on oak and Cupressaceae). Host plants remain unknown for the most part of these stenotopic species; probably, some of them will be referred to polyphages. Most characteristic of these species are *Reptalus cuspidatus*, *Agalmatium bilobum*, *Scorlupella medea*, *Cicadatra atra*, *C. hyalina*, *Eupelix cuspidata*, *Phlepsius intricatus*, *Proceps acicularis*,

Selenocephalus obsoletus, *S. pallidus*, *Eohardya fraudulenta*, *Artianus manderstjernii*, *Jassargus repletus*. In stenotopic species, recorded only from the communities of this type, are *Bubastia taurica*, *Mycteroodus rostratus*, *Cicadatra persica*, *Dictyophara multireticulata*, *Planaphrodes angulaticeps*, *Hespericerus brusinae*, *Liguropia juniperi*, *Fieberiella lugubris*. The general chorological spectrum is characterized by domination of the Tethyan species. In stenotopic group, Tethyan and European species prevail. Considerable fraction of meadow and meadow-steppe Tethyan species in the submediterranean communities is mostly accounted for by appreciable transformation of submediterranean forests under the anthropogenic influence, which is evinced in a considerable reduction of the forest canopy and an increase of the role of meadow plant associations.

A high proportion of narrow oligophages associated with principal dominants (willow, poplar) is characteristic of the complex of flood-plain forests. The stenotopic group includes *Macropsis graminea*, *Sagatus punctifrons*, *Cedusa sarmatica*, *Myndus musivus*, etc. On the whole, oligophages of Salicaceae dominate in the stenotopic group. To the typical species belong: *Idiocerus herrichi*; *I. lituratus*; *Zygina angusta* [erroneously referred to oligophages of Salicaceae in the Russian text (auth.)]; *Z. nivea* [erroneously referred to oligophages of Salicaceae in the Russian text (auth.)]. Western Palaearctic species with ranges extending from Atlantic coast of Europe to the bounds of Western eucontinental sector predominate in the general chorological spectrum.

The complex of foot-hill and low-mountain steppified meadows includes narrow oligophages of *Cleistogenes*, sheep's fescue, couch-grass, meadow-grass, wormwoods, sedges, and thyme. Typical of these are the following species: *Scorlupella montana*, *Caliscelis affinis*, *Batracomorphus irroratus*, *Doratura exilis*, *D. homophyla*, *Graphocraerus ventralis*, *Laburrus handlirschi*, *L. pellax*, *Turrutus socialis*. To stenotopic species belong: *Alloscelis vittifrons*, *Aphelonema punctifrons*, *Hephatus nanus*, *Chlorita thymi*, *Planaphrodes laeva*, *Rhoanarus hypochlorus*, *Enantioccephalus cornutus*, *Pleargus pygmeus*, *Mendrausus pauxillus*. Tethyan species prevail in both the general chorological spectrum and the stenotopic group.

The solonetz-solonchak complex is characterized by the involvement of a considerable number of narrow oligophages associated with principal dominants of the vegetation. The stenotopic group is mainly constituted

by grass oligophages, including narrow oligophages of reed, spreading meadow-grass, and *Aeluropus littoralis* predominate; narrow oligophages of Cyperaceae (*Bolboschoenus*, sedges), Juncaceae (rush) [absent in the Russian text (auth.)], Chenopodiaceae (glasswort), Plumbaginaceae (sea-lavender), Asteraceae (wormwood) are also present (*Kormus artemisiae*, *Macropsidius serratus*, *Eremochlorita korovini*, *Anoterostemma ivanoffi*, *Aconura jakowlefi*, *Doratura salina*, *Doraturopsis heros*, *Macrosteles salsolae*, *Handianus limonii*, *Aglena ornata*, *Paramesus major*, *Paraglena paludosa*, *Psammotettix atropidis*, *P. percictus*, *P. saluginosus*). On the whole, the predominance of Tethyan species and lack of European and Panatlantic species are characteristic of the complex.

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