

**Additions to the fauna and distribution of parasitoids
from the family Eulophidae (Hymenoptera: Chalcidoidea)
of Russia and some adjacent territories**

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**Дополнения к фауне и распространению паразитоидов
семейства Eulophidae (Hymenoptera: Chalcidoidea)
России и некоторых сопредельных территорий**

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Abstract. The following Eulophidae species are recorded for the fauna of Russia and some adjacent territories for the first time: *Arachnolophus dentatus* Kamijo, 1996; *Aulogymnus euedoreschus* (Walker, 1839); *Cirrospilus elegantissimus* Westwood, 1832; *C. elongatus* Bouček, 1959; *C. viticola* Rondani, 1877; *C. vittatus* Walker, 1838; *Colpoclypeus florus* (Walker, 1839); *Deutereulophus brevipennis* (Erdös, 1951); *Diaulinopsis arenaria* (Erdös, 1951); *Diglyphus poppoea* Walker, 1848; *Elachertus charondas* (Walker, 1839); *E. fenestratus* Nees, 1834; *E. inunctus* Nees, 1834; *Eulophus pennicornis* Nees, 1834; *Euplectrus flavipes* (Fonscolombe, 1832); *E. liparidis* Ferriere, 1941; *Hemiptarsenus fulvicollis* Westwood, 1833; *H. ornatus* (Nees, 1834); *H. waterhousii* Westwood, 1833; *Hyssopus geniculatus* (Hartig, 1838); *Miotropis unipuncta* (Nees, 1834); *Necremnus tidius* (Walker, 1839); *Platylectrus bouceki* (Erdös, 1966); *Stenomesius rufescens* (Retzius, 1783); *Sympiesis acalle* (Walker, 1848); *S. dolichogaster* Ashmead, 1888; *S. gyorfii* Erdös, 1954; *S. notata* (Zetterstedt, 1838); *S. pustacola* Szelényi, 1976; *S. sericeicornis* (Nees, 1834); *S. xanthostoma* (Nees, 1834); *Xanthella szabopatayi* Moczár, 1950 (Eulophinae); *Asecodes erxias* (Walker, 1848); *Chrysocharis idyia* (Walker, 1839); *Ch. pentheus* (Walker, 1839); *Ch. viridis* (Nees, 1834); *Entedon albifemur* Kamijo, 1988; *E. cioni* Thomson, 1878; *E. costalis* Dalman, 1820; *E. crassiscapus* Erdös, 1944; *E. fuscitarsis* Thomson, 1878; *E. insignis* Erdös, 1944; *E. marusiki* Gumovsky, 1999; *E. no-mizonis* Kamijo, 1988; *E. pharnus* Walker, 1839; *E. sylvestris* Szelényi, 1981; *E. zanara* Walker, 1839; *Neochrysocharis cuprifrons* Erdös, 1954; *Pediobius planiventris* (Thomson, 1878) (Entedoninae); *Chrysotetrastichus suevius* (Walker, 1839); *Crataepus marbis* (Walker, 1839); *Euderus albitalis* (Zetterstedt, 1838); *E. viridis* Thomson, 1878; *Ootetrastichus crino* (Walker, 1838) (Tetrastichinae).

Key words. Parasitoids, Eulophidae, new records, Russia.

Резюме. Для фауны России некоторых сопредельных территорий впервые приводятся следующие виды: *Arachnolophus dentatus* Kamijo, 1996; *Aulogymnus euedoreschus* (Walker, 1839); *Cirrospilus elegantissimus* Westwood, 1832; *C. elongatus* Bouček, 1959; *C. viticola* Rondani, 1877; *C. vittatus* Walker, 1838; *Colpoclypeus florus* (Walker, 1839); *Deutereulophus brevipennis* (Erdös, 1951); *Diaulinopsis arenaria* (Erdös, 1951); *Diglyphus poppoea* Walker, 1848; *Elachertus charondas* (Walker, 1839);

E. fenestratus Nees, 1834; *E. inunctus* Nees, 1834; *Eulophus pennicornis* Nees, 1834; *Euplectrus flavipes* (Fonscolombe, 1832); *E. liparidis* Ferriere, 1941; *Hemiptarsenus fulvicollis* Westwood, 1833; *H. ornatus* (Nees, 1834); *H. waterhousii* Westwood, 1833; *Hyssopus geniculatus* (Hartig, 1838); *Miotropis unipuncta* (Nees, 1834); *Necremnus tidius* (Walker, 1839); *Platylectrus bouceki* (Erdös, 1966); *Stenomesius rufescens* (Retzius, 1783); *Sympiesis acalle* (Walker, 1848); *S. dolichogaster* Ashmead, 1888; *S. gyorfii* Erdös, 1954; *S. notata* (Zetterstedt, 1838); *S. pustacola* Szelényi, 1976; *S. sericeicornis* (Nees, 1834); *S. xanthostoma* (Nees, 1834); *Xanthella szabopatayi* Moczár, 1950 (Eulophinae); *Asecodes erxiensis* (Walker, 1848); *Chrysocharis idya* (Walker, 1839); *Ch. pentheus* (Walker, 1839); *Ch. viridis* (Nees, 1834); *Entedon albifemur* Kamijo, 1988; *E. cioni* Thomson, 1878; *E. costalis* Dalman, 1820; *E. crassiscapus* Erdös, 1944; *E. fuscitarsis* Thomson, 1878; *E. insignis* Erdös, 1944; *E. marusiki* Gumovsky, 1999; *E. nomizonis* Kamijo, 1988; *E. pharnus* Walker, 1839; *E. sylvestris* Szelényi, 1981; *E. zanara* Walker, 1839; *Neochrysocharis cuprifrons* Erdös, 1954; *Pediobius planiventris* (Thomson, 1878) (Entedoninae); *Chrysotetrastichus suevius* (Walker, 1839); *Crataepus marbis* (Walker, 1839); *Euderus albitalis* (Zetterstedt, 1838); *E. viridis* Thomson, 1878; *Ootetrastichus crino* (Walker, 1838) (Tetrastichinae).

Ключевые слова. Паразитоиды, Eulophidae, новые данные, Россия.

Introduction

Family Eulophidae is one of the largest groups of chalcidoids parasitoids represented throughout the world by 4 subfamilies, 324 genera and about 6000 species. The Palaearctic region contains about 2000 species in 130 genera (Noyes, 2019).

Eulophids body is usually relatively weakly sclerotized, all its tarsi always 4-segmented; antenna with funicle at most 4-segmented and frequently with branches in males; mesoscutum of many species with distinct and complete notaui; scutellum with two sublateral grooves.

The members of Eulophidae parasite a wide number of hosts from different orders of insects, but a few of them are parasitoids of spiders, eriophyid mites and even nematodes.

The purpose of this study is publication of previously unknown records of euphilid species in the fauna of Russia or its regions and in some adjacent countries.

Material and methods

All material used for this study are deposited in the Hymenoptera collection of the Zoological Institute of the Russian Academy of Sciences (St Petersburg) (ZISP).

The abbreviations of the regions of Russia were used from the first volume of the Annotated catalogue of the Hymenoptera of Russia (Belokobylskij, Lelej, 2017). New distribution records are marked with an asterisk (*). The world distribution of taxa is given after Noyes (2019).

Taxonomical part

Subfamily Eulophinae

Arachnolophus dentatus Kamijo, 1996

Material examined. RUSSIA. Primorskiy Territory: 1 female, Artem, city garden with trees and shrubs, 31.VII.1961 (M. Kozlov leg.) (Z. Yefremova det.).

Distribution. *Russia: FE (PR). – Korean Peninsula, Japan (Kamijo, 1996).

Aulogymnus euedoreschus (Walker, 1839)

Material examined. RUSSIA. Kaliningrad Province: 2 females, “Georgenburg, 17.V.1904 P. Winogradoff-N[ikitin]”. Voronezh Province: 1 female, “gall-nut *Diplolepis quercus-folia* L, 29.VIII.1958, Tellerman”. Volgograd Province: 1 female, “Sarepta [=Volgograd], 2–6.V.1917 Kuznetsov-Ugamskij”; 4 females, same label, 4 & 6.V.1917 (Kuznetsov-Ugamskij’s collection). Krasnodar Territory: 1 female, Korenovskaya, North-Caucasus Kravstazr, Secale sp., 28.V.1925 (T. Glazunov leg.). Kazakhstan. West-Kazakhstan Province: 2 females, Amangeldy, Quercus, 17.VIII–26.X.1950 (Sh. Steinberg leg.).

Distribution. *Russia: EP (NW, C, S, NC). – Europe (WE, NE, EE), Israel, *Kazakhstan.

***Cirrospilus elegantissimus* Westwood, 1832**

Material examined. RUSSIA. Republic of Crimea: 2 females, Crimean Nature Reserve, parasitoid of *Orchestes fagi* L. (Curculionidae) (**new record**) (“№ 540.2, 550.4, 568.4”) (W. Bukowskii leg.) (W. Bukowskii det.).

Distribution. Russia: EP (C, E, NC, *CR), FE (PR, SA) (Lebedev, Chigarov, 1985; Storozheva et al., 1995; Yefremova et al., 2000; Kostjukov et al., 2004; Nagorny, 2004). – Europe (WE, NE, SE, EE), Turkey, Yemen, Turkmenistan, China (NC).

***Cirrospilus elongatus* Bouček, 1959**

Material examined. RUSSIA. Republic of Crimea: 3 males, Staryi Crimea, Mallus domestica, *Lithocolletis pyrifoliella* [= *Phyllonorycter pyrifoliella* (Gerasimov)] (Gracillariidae), 26.IX.1969 (V. Holchenkov leg.).

Distribution. Russia: EP (*CR). – Europe (WE, NE, SE, EE), N Africa, Lebanon.

***Cirrospilus viticola* Rondani, 1877**

Material examined. TURKMENISTAN. 1 female, Kara-Kala, mines on Rosa sp., 28.X.1987 (V. Kurashev leg.) (Z. Yefremova det.).

Distribution. Russia: EP (E, NC, CR), FE (PR, KU) (Trjapitzin, 1978; Storozheva et al., 1995; Yefremova et al., 2000; Kostjukov et al., 2004). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, *Turkmenistan.

***Cirrospilus vittatus* Walker, 1838**

Material examined. RUSSIA. Leningradskaya Province: 1 female, St Petersburg, Petrodvorets, 2.VI.1985 (V. Trjapitzin leg.). MONGOLIA. Songino Aymag: 1 female, 19.VIII.1976 (I. Kerzhner) (Z. Yefremova det.).

Distribution. Russia: EP (*NW, C, E, NC, CR), UR, FE (PR, SA, KU) (Trjapitzin, 1978; Sulkhanov, 1990; Yefremova et al., 2000; Kostjukov et al., 2004; Kostjukov, Gunasheva, 2004; Kostjukov, Nagorny, 2004). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Jordan, Iraq, Iran, *Mongolia, China (NC, WP), Japan, N America (Noyes, 2019).

***Colpoclypeus florus* (Walker, 1839)**

Material examined. RUSSIA. Republic of Karelia: 2 females, “Kivach” Nature Reserve, ex. caterpillar of ? *Orthotania undulana* (Den. et Schiff.) (Tortricidae), Betula sp., 6.VII.1975 (N. Gavrilina leg.) (V. Trjapitzin det.). Republic of Crimea: 1 female, Malus, *Pandemis heparana* Den. et Schiff. (Tortricidae), 24.VII.1985 (Burkova leg.); 3 females, same locality, 20.VIII.1985 & 25.VIII.1986 (Burkova leg.). GEORGIA. 2 females, 1 male, Tbilisi, *Gypsonoma aceriana* (Dup.) (Tortricidae), 24.V.1940 (? Sutashvili leg.); 3 females, same locality, from *Tortrix* sp. (Tortricidae), 1957 (collector unknown); 5 females, Kojori, 5.VIII.1940 (? Sutashvili leg.) (Z. Bouček det.); 2 females, Telavi, Institute of Viticulture, from *Lobesia botrana* (Den. et Schiff.) (Tortricidae), 1950 (collector unknown).

Distribution. Russia: EP (*N, C, NC, *CR), ES (KR), FE (PR) (Storozheva et al., 1995; Yefremova, 2004). – Europe (WE, NE, SE, EE), N Africa, *Georgia, Armenia, Azerbaijan, Turkey, Uzbekistan, Kazakhstan, N America.

***Deutereulophus brevipennis* (Erdös, 1951)**

Material examined. RUSSIA. Samara Province: 1 female, Zhiguli Nature Reserve, Bakhilova Polyan (V. Trjapitzin leg.). Khabarovsk Territory: 1 female, Soloni River valley, 2 km W of Migule Station, 19.VII.1984 (N. Storozheva leg.) (Z. Yefremova det.).

Distribution. Russia: EP (*E), FE (*KH). – Europe (NE, SE, EE).

***Diaulinopsis arenaria* (Erdös, 1951)**

Material examined. MONGOLIA. Bayan-Khongor Aymag: 1 male, ur. Ekhin-Gol, 50 km NNE of Tsagan-Bogdo, 1.IX.1970 (M. Kozlov leg.) (Z. Yefremova det.).

Distribution. Russia: EP (C, E, S, NC), FE (PR, SA) (Storozheva et al., 1995; Yefremova et al., 2000). – Europe (WE, NE, SE, EE), Azerbaijan, Jordan, Iran, Turkmenistan, Kazakhstan, *Mongolia, China (NC, CC).

***Diglyphus poppea* Walker, 1848**

Material examined. ARMENIA. *Shaumyanskiy District:* 1 female, sweeping by tomatoes, 13.XI.1962 (? Akramova leg.); 1 female, same locality, sweeping by tomatoes, 13.XI.1962 (Azaryan leg.). *Artashanskiy District:* 1 female, sweeping by cornfield, 2.VII.1952 (? Akramova leg.); 1 male, Erevan, garden, 18.IX.1963 (Simonova leg.).

Distribution. Russia: **EP** (NW, C, E, NC), **FE** (PR) (Storozheva et al., 1995; Yefremova et al., 2000; Kostjukov et al., 2004, 2006). – Europe (WE, NE, SE, EE), N Africa, *Armenia, Turkey, Israel, Yemen.

***Elachertus charondas* (Walker, 1839)**

Material examined. RUSSIA. *Krasnodar Territory:* 1 female, Sochi, Lazarevskoe, seaside, 22.VI.1979 (N. Storozheva leg.). *Primorskiy Territory:* 1 female, 15 km S of Partizansk, 24.VI.1990 (S. Belokobylskij leg.) (Z. Yefremova det.).

Distribution. Russia: **EP** (E, *NC), **FE** (KH, *PR, SA, KU, KA) (Storozheva et al., 1995; Yefremova et al., 2000). – Europe (WE, NE, SE, EE), Israel, Yemen Turkmenistan, China (SE), Japan, SE Asia, S America.

***Elachertus fenestratus* Nees, 1834**

Material examined. RUSSIA. *Primorskiy Territory:* 1 female, 33 males, Chuguevka District, vicinity of Kamenka Village, 21.VII.1977 (N. Storozheva leg.) (Z. Yefremova det.); 1 male, “Kedrovaja pad” Nature Reserve, grass, Lespedeza, sweeping, 26.VI.1980 (A. Meshcheryakov leg.) (Z. Yefremova det.); 1 male, Anisimovka, 3.VIII.1977 (N. Storozheva leg.) (Z. Yefremova det.); 1 male, same locality, 12.IV.1984 (S. Belokobylskij leg.) (Z. Yefremova det.); 1 male, Partizansk District, vicinity of Novitskoe Village, 18.VIII.1985 (N. Storozheva leg.) (Yefremova det.); 1 female, 1 male, vicinity of Spassk-Dal’nyi, 23.VII.1977 (N. Storozheva leg.) (Z. Yefremova det.); 1 female, 1 male, 30 km E of Spassk-Dal’nyi, 2.VI.1984 (S. Belokobylskij leg.) (Z. Yefremova det.); 1 male, 15 km SE of Spassk-Dal’nyi, 1.IX.1984 (S. Belokobylskij leg.) (Z. Yefremova det.); 1 male, 50 km SW of Terney, Cheremukhovaya River, 4.VI.1985 (S. Belokobylskij leg.) (Z. Yefremova det.); 1 male, Spassk-Dal’nyi District, Novovladimirovka, 18.VIII.1985 (N. Storozheva leg.) (Z. Yefremova det.); 1 female, 1 male, Nakhodka vicinity, Tungus Bay, 20.VIII.1985 (N. Storozheva leg.) (Z. Yefremova det.); 1 female, Partizansk District, Brovničchi, 15.VIII.1985 (N. Storozheva leg.) (Z. Yefremova det.). *Chukotka Autonomous Area:* 1 male, Wrangel Island, 7 km SE of Sovetskaya Mt., Khishchnikov River valley, 11.VII.1972 (K. Gorodkov leg.) (Z. Yefremova det.).

Distribution. Russia: **EP** (C, E), **FE** (KH, *PR, SA, KU, KA, *CH) (Storozheva et al., 1995; Yefremova, 2002). – Europe (WE, NE, SE, EE), Turkey, Turkmenistan, Tajikistan, China (NE, NC, SW, WP), Korean Peninsula, Japan, N and S America.

***Elachertus inunctus* Nees, 1834**

Material examined. RUSSIA. *Primorskiy Territory:* 1 female, Anisimovka, 12.VII.1984 (S. Belokobylskij leg.). KAZAKHSTAN. 1 female, Aksu-Dzhabaglinsk, W of Nikolaevka, 17.V.1980 (N. Storozheva leg.).

Distribution. Russia: **EP** (C, E, NC), **WS/ES** (“Siberia”: Storozheva et al., 1995), **FE** (KH, *PR, SA, KU, KA) (Storozheva et al., 1995). – Europe (WE, NE, SE, EE), Turkey, Turkmenistan, *Kazakhstan, China (NE, NC, NW, CC), Korean Peninsula, Japan, SE Asia.

***Eulophus pennicornis* Nees, 1834**

Material examined. RUSSIA. *Kirov Province:* 1 female, Falenki, on *Agrotis segetum* Den et Schiff. (Noctuidae), 4.VIII.1976 (M. Malysheva leg.) (V. Trjapitzin det.). *Voronezh Province:* 1 female, Ramon', park, 7.VII.1981 (V. Trjapitzin leg.) (V. Trjapitzin det.). *Kabardino-Balkaria:* 11 females, 1 male, Nalchik, (without date) (Atanov leg.). KAZAKHSTAN. 4 females, Alma Ata, 7.II.1983 (V. Linskiy leg.). MONGOLIA. *Kobdoskiy Aymag:* 1 female, canyon Dzegiyn-Ama, mountains Ikh-Khavtgiin-Nuru, 7.VIII.1968 (M. Kozlov leg.). *East Aymag:* 1 female, Tamsag-Bulak, 21.VII.1976 (M. Kozlov leg.) (V. Trjapitzin det.).

Distribution. Russia: **EP** (NW, *C, *E, *NC) (Kostjukov et al., 2006). – Europe (WE, NE, SE, EE), Azerbaijan, *Kazakhstan, *Mongolia, China (NW), N America.

***Euplectrus flavipes* (Fonscolombe, 1832)**

Material examined. RUSSIA. *Ulyanovsk Province:* 2 males, Ulyanovsk, 12.VII.1989 (Z. Yefremova leg.) (Z. Yefremova det.).

Distribution. Russia: **EP** (C, *E, NC) (Gokhman, 2004; Kosheleva, 2005). – Europe (WE, NE, SE, EE), Turkey, Syria, Turkmenistan, China (CC, SE), N America, SE Asia, Dominican Republic.

***Euplectrus liparidis* Ferriere, 1941**

Material examined. RUSSIA. *Primorskiy Territory:* 1 female, Spassk-Dal’nyi, 11.IX.1985 (S. Belokobylskij leg.) (Z. Yefremova det.).

Distribution. Russia: **EP** (E), **FE** (*PR) (Yefremova et al., 2000; Yefremova, 2002). – Europe (SE, EE), N Africa, Israel, Yemen, Iran, China (NC, CC, WP), Korean Peninsula, Japan, N America.

***Hemiptarsenus fulvicollis* Westwood, 1833**

Material examined. RUSSIA. Kaluga Province: 2 females, Sivkovo, Nizhnyaya Vyrka. 24.VIII.1978 (E. Shuvakhina, V. Trjapitzin leg.).

Distribution. Russia: **EP** (*C, E, NC), **FE** (PR, SA) (Storozheva et al., 1995; Yefremova et al., 2000; Yefremova, 2002; Kostjukov et al., 2016). – Europe (WE, NE, SE, EE).

***Hemiptarsenus ornatus* (Nees, 1834)**

Material examined. RUSSIA. Republic of Crimea: 1 female, intermountain, Burulcha River valley, 9.IX.1980 (D. Kasparyan leg.); 1 female, intermountain, 15.IX.1980 (D. Kasparyan leg.).

Distribution. Russia: **EP** (C, E, NC, *CR), **FE** (KH, PR) (Storozheva et al., 1995; Yefremova, 2002; Kosheleva, Kostjukov, 2010). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Jordan, Israel, United Arab Emirates, Yemen, Turkmenistan, China (NC, CC), Korean Peninsula, Japan, N America, SE Asia, Afrotropics.

***Hemiptarsenus waterhousii* Westwood, 1833**

Material examined. RUSSIA. Republic of Crimea: 1 female, Karadag, ex. *Vulcaniella extremella* Wocke (Cosmopterigidae) (**new record**) (S. Sinev leg.) (V. Trjapitzin det.).

Distribution. Russia: **EP** (NC, *CR) (Kostjukov et al., 2016). – Europe (WE, NE, EE).

***Hyssopus geniculatus* (Hartig, 1838)**

Material examined. RUSSIA. Republic of Sakha (Yakutia): 2 females, Vilyuy River, Kyurba, reared from cones of Larix dahurica, 11.I–11.II.1974 (V. Efremov leg.).

Distribution. Russia: **EP** (N, NW, C, E, NC), **ES** (*YA), **FE** (? KH, PR, ? SA, ? KA) (Yefremova, 2002; Kostjukov et al., 2004, 2016; Yefremova, Myartseva, 2004; Gokhman et al., 2014). – Europe (WE, NE, SE, EE), Turkey, Yemen, Iran, Turkmenistan, Tajikistan, China, Korean Peninsula, Japan.

***Miotropis unipuncta* (Nees, 1834)**

Material examined. RUSSIA. Leningradskaya Province: 1 female, “Leningrad (= St Petersburg), forest, sweeping, 27.VII.1934” (collector unknown).

Distribution. Russia: **EP** (*NW, E, NC) (Yefremova et al., 2000; Kostjukov et al., 2014). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Mongolia.

***Necremnus tidius* (Walker, 1839)**

Material examined. RUSSIA. Leningradskaya Province: 1 female, Mozhayskaya, 18.IX.1980 (E. Shuvakhina leg.). Voronezh Province: 2 females, 10 km SW of Novozhivotinnoe, motley grass, 10.VII.1979 (Logvinovskaya leg.); 1 female, 16 km SW of Novozhivotinnoe, Medicago, 10.VII.1979 (Ryabchinskiy leg.). Stavropol Territory: 2 females, Essentuki, 14.X.1926 (Zryanova leg.). KAZAKHSTAN. 2 female, Alma-Atinskiy Nature Reserve, Talgar River (h = 1600–2000), grassy meadows, 29.V.1980 & 5.VI.1980 (N. Storozheva leg.).

Distribution. Russia: **EP** (*NW, *C, *NC), **ES** (KR, IR), **FE** (PR, SA) (Storozheva et al., 1995; Yefremova, 2002). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, *Kazakhstan, N America.

***Platynectes bouceki* (Erdös, 1966)**

Material examined. RUSSIA. Primorskiy Territory: 1 female, Sinancha, 17 km [? Medvedka River], 10.IX.1969 (collection of Kashcheev). TAJIKISTAN. 1 female, Parkhar, Pyandzh River, 19.X.1934 (Luppova det.).

Distribution. Russia: **FE** (*PR). – Europe (SE, EE), Turkey, *Tajikistan.

***Sympiesis acalle* (Walker, 1848)**

Material examined. GEORGIA. 2 females, Tbilisi, Institute of Viticulture, moth caterpillars on an apple tree, 1963 (without collector). MONGOLIA. East Aymag: 1 female, 60 km ENE of Derkhin-Tsagan-Obo, Bayan-Burda, 11.VI.1976 (I. Kerzhner leg.).

Distribution. Russia: **EP** (NW, C, E, S, NC, CR), **UR** (Storozheva et al., 1995; Yefremova, 2002). – Europe (WE, NE, SE, EE), *Georgia, Azerbaijan, Turkey, Yemen, Turkmenistan, Tajikistan, Kyrgyzstan, *Mongolia, Korean Peninsula, Japan, N America.

***Sympiesis dolichogaster* Ashmead, 1888**

Material examined. ABKHAZIA. 1 female, Gulripsh, vicinity of Sukhum, 1–2.IX.1979 (O. Kovalev leg.); 1 female, Nizhnyaya Eshera, vicinity of Sukhum, rare woodland, 30.VIII.1979 (O. Kovalev leg.). MONGOLIA. East Aymag: 3 females, Numregin-Gol River, 32 km SE of Salkhit, 14–16.VI.1976 (M. Kozlov leg.).

Distribution. Russia: **EP** (E, NC), **FE** (PR, SA) (Storozheva et al., 1995; Yefremova, 2002). – Europe (WE, SE, EE), *Abkhazia, Armenia, Pakistan, Tajikistan, *Mongolia, China (NE, NC, NW, CC, SE), Japan, N America, India, SE Asia, Cuba, Australia.

***Sympiesis gyorfii* Erdös, 1954**

Material examined. TAJIKISTAN. 1 female, Kondara, from pupae in mines on *Celtis* sp., 30.III.1957 (Degtyareva leg.); 1 male, Hodzha-Obi-Garm, Hissar Range, 6.VIII.1944 (M. Nikol'skaya leg.) (Z. Yefremova det.).

Distribution. Russia: **EP** (E, NC) (Storozheva et al., 1995; Yefremova, 2002, Kostjukov et al., 2004). – Europe (WE, NE, SE, EE), Israel, *Tajikistan.

***Sympiesis notata* (Zetterstedt, 1838)**

Material examined. RUSSIA. Leningradskaya Province: 1 female, Repino, Peski, 20.V.1976 (S. Triapitsyn leg.).

Distribution. Russia: **EP** (*NW, C, E, S, NC), **FE** (PR) (Storozheva et al., 1995; Yefremova, 2002; Kostjukov et al., 2004). – Europe (WE, NE, SE, EE), United Arab Emirates, Korean Peninsula.

***Sympiesis pustacola* Szelényi, 1976**

Material examined. RUSSIA. Voronezh Province: 2 females, Voronezh Nature Reserve, parasitoid of leaf-rollers on *Euonymus*, 13.VI.1949 (D. Dovnar leg.).

Distribution. *Russia: **EP** (C). – Hungary.

***Sympiesis sericeicornis* (Nees, 1834)**

Material examined. RUSSIA. Volgograd Province: 1 female, Kamyshinskiy District, garden N 32, 27.VII.1950 (A. Moravskaya leg.); 1 male, same label, but 27.VII.1950; 1 female, "Sestrenki, N-W balka", 29.VIII.1950 (A. Moravskaya leg.). Republic of Sakha (Yakutia): 2 females and 2 males, mouth of Olyokma River, 13.VIII.1970 (Ammosov leg.) (N. Storozheva det.). Sakhalin Province: 1 female, Novoaleksandrovsk, 27.VII.978 (N. Storozheva leg.). GEORGIA. 3 females, 2 males, vicinity Bakhara, mines on quince (*Lithoccolletis* sp.), 25.VIII.1928 (Gerasimov leg.); 1 female, Rustavi, floodplain of Kura River, forest, 15.VIII.1981 (V. Trjapitzin leg.). UZBEKISTAN. 6 females, Chatkalskiy Nature Reserve, stationary point, 1200 m, 16.V.1980. (D. Kasparyan leg.). MONGOLIA. East Aymag: 5 females, Numregin-Gol River, 32 km SE of Salkhit, 14–16.VI & 3–8.VIII.1976 (M. Kozlov leg.); 1 female, "g. Derkhin-Tsagan-Obo, 60 km ENE of Bayan-Burda, 3–7.VIII.1976 (M. Kozlov leg.); 1 male, same label, but 2–4.VIII.1976 (I. Kerzhner leg.).

Distribution. Russia: **EP** (NW, C, E, *S, NC), **UR**, **ES** (BR, *YA), **FE** (KH, PR, KA) (Storozheva et al., 1995; Yefremova, 2002; Kostjukov et al., 2004). – Europe (WE, NE, SE, EE), *Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, *Uzbekistan, Kazakhstan, *Mongolia, China (NE, NC, NW, CC, SW, WP), Korean Peninsula, Japan, N America, SE Asia.

***Sympiesis xanthostoma* (Nees, 1834)**

Material examined. RUSSIA. Republic of Crimea: 1 female, Krymskiy Natural Reserve, sweeping, 27.VII.1934 (W. Bukowski leg.) (Z. Yefremova det.).

Distribution. Russia: **EP** (C, E, NC, *CR), **UR**, **FE** (PR) (Storozheva et al., 1995; Yefremova, 2002; Kostjukov et al., 2004). – Europe (WE, NE, SE, EE), Armenia.

***Stenomesius rufescens* (Retzius, 1783)**

Material examined. RUSSIA. Republic of Crimea: 1 male, Nikitskiy Botanical Garden, 5.IX.1986 (D. Kasparyan leg.) (Veromann det.).

Distribution. Russia: **EP** (*CR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Iran, N America (introduced).

***Xanthella szabopatayi* Moczár, 1950**

Material examined. RUSSIA. Voronezh Province: 1 female, Voronezh Nature Reserve, 13.V.1949 (D. Dovnar leg.) (Z. Yefremova det.). ABKHAZIA. 3 females, Sukhum, pupa of *Fumea*, 8.VI.1945 (without collector).

Distribution. *Russia: EP (C). – Europe (WE, EE), *Abkhazia.

Subfamily Entedoninae

***Asecodes erxias* (Walker, 1848)**

Material examined. RUSSIA. Tomsk Province: 6 females, Chernaya Rechka, 10.VII.1985 (L. Vecher leg.).

Distribution. Russia: EP (E, NC), WS (*TK), FE (PR) (Yefremova et al., 2000; Kostjukov et al., 2004; Burks, 2013). – Europe (WE, NE, SE, EE), Japan, N America.

***Chrysocharis idyia* (Walker, 1839)**

Material examined. RUSSIA. Murmansk Province: 1 female, Murmansk, Kolskiy Peninsula, 28.IX.1923 (V. Fridolin leg.); 1 female, Aleksandrovsk, 6.IX.1923 (V. Kuznetsov leg.). Leningradskaya Province: 1 female, Luban', 10.IX.1979 (V. Trjapitzin, E. Shuvakhina leg.). Moscow Province: 1 male, Katuary (Katuar Station), 23.VIII.1954 (B. Rodendorf leg.). Rostov Province: 1 female, 1 male, Taganrog, 26.VI.1921 (Kokujev collection). Irkutsk Province: 6 females, Irkutsk, garden, 18.VII.1961 (S. Plugar leg.); 1 female, Padun, Verhnyaya Tunguska (= Angara) River, 1867 (A. Chekanovskiy leg.) (A. Gumovsky det.). KAZAKHSTAN. 1 female, Malokrasnoyarsk, Irtysh River, 20.VIII.1926 (V. Vereshchagin leg.).

Distribution. Russia: EP (*N, *NW, *C, E, *S, NC), ES (*IR) (Yefremova et al., 2000). – Europe (WE, NE, EE), Turkey, *Kazakhstan.

***Chrysocharis pentheus* (Walker, 1839)**

Material examined. RUSSIA. Leningradskaya Province: 1 female, vicinity of St Petersburg, Mozhayskaya, "Duderhof Vysoty", 10.VIII.1932 (without collector). Irkutsk Province: 1 female, Padun, Verhnyaya Tunguska (= Angara) River, 1867 (A. Chekanovskiy leg.).

Distribution. Russia: EP (*NW, E, NC), ES (*IR), FE (PR) (Kostjukov, 2000; Kostjukov et al., 2004; Yefremova et al., 2011). – Europe (WE, NE, SE, EE), Turkey, China (CC, SW, SE), Korean Peninsula, Japan, N America, Malaysia.

***Chrysocharis viridis* (Nees, 1834)**

Material examined. RUSSIA. Murmansk Province: 4 females, 1 male, Aleksandrovsk, 30.VIII, 6 & 12.IX.1923 (V. Kuznetsov leg.). Kaluga Province: 1 female, 2 males, Nizhnyaya Vyrka, 1.VIII.1979 (V. Trjapitzin leg.).

Distribution. Russia: EP (*N, *C, E), FE (PR) (Kostjukov, 2000; Mishchenko, Yefremova, 2012). – Europe (WE, NE, SE, EE), Turkey, Mongolia, China (NC, NW, CC), Korean Peninsula, Japan, N America, SE Asia, Australia.

***Entedon albifemur* Kamijo, 1988**

Material examined. RUSSIA. Primorskiy Territory: 2 females, Vladivostok, Okeanskaya, 7.VII.1961 (V. Kozlov leg.) (A. Gumovsky det.); 1 female, Vladivostok, Ugolnaya, fruitfully experienced station, garden with forest strip, 9.VII.1961 (V. Trjapitzin leg.) (A. Gumovsky det.).

Distribution. Russia: FE (*PR). – Japan.

***Entedon cioni* Thomson, 1878**

Material examined. RUSSIA. Republic of Tuva (Tyva): 2 females, 5 km W of Sagly 15.VII.1980 (B. Korotyaev leg.) (A. Gumovsky det.).

Distribution. Russia: EP (NC), ES (*TU), FE (PR) (Kostjukov, 2000; Kostjukov et al., 2016). – Europe (WE, NE, EE).

***Entedon costalis* Dalman, 1820**

Material examined. RUSSIA. Leningradskaya Province: 1 female, Romanovka, near Yamburg (= Kingisepp), 2.VII.1905 (Baranovskiy leg.); 1 male, Udelnaya, St Petersburg, 1890 (Bianki leg.) (A. Gumovsky det.); 1 female, St Petersburg, Komarovo, 3.VI.1973 (V. Trjapitzin leg.); 1 female, St Petersburg, greenhouse, 9.II.1950 (I. Rubtsov leg.). Yaroslavl Province:

1 female, “Gedenovo (= Godenovo), Danil.[ovskiy] u[ezd], Jarosl.[avlskaya] g.[ubernia], VI.[1]918, A. Schestakow”. *Volgograd Province*: 1 female, “Sarepta (= Volgograd), Bekker”; 1 female, same locality, 4.V.1917, “c[ollection] Kuznetsova-Ugamskogo”. *Irkutsk Province*: 1 male, Padun, Verhnyaya Tunguska (= Angara) River, 1867 (A. Chekanovskiy) (A. Gumovsky det.).

Distribution. Russia: EP (*NW, *C, E), ES (*IR) (Yefremova, 2002). – Europe (WE, NE, SE, EE).

***Entedon crassiscapus* Erdös, 1944**

Material examined. RUSSIA. *Primorskiy Territory*: 1 female, Suchan (= Partizanskaya) River valley, below the Suchan, 11–12.VII.1961 (E. Shuvakhina leg.) (A. Gumovsky det.); 2 females, Vladivostok, Akademgorodok, 21.VII.1961 (M. Nikol'skaya leg.). TURKMENISTAN. 1 male, canyon Ken-Kol, Aleksandrovskiy Range, 16.VIII.1930 (L. Bianki leg.) (A. Gumovsky det.).

Distribution. Russia: EP (E), FE (*PR) (Yefremova, 2002). – Europe (WE, NE, SE, EE), Azerbaijan, *Turkmenistan.

***Entedon fuscitarsis* Thomson, 1878**

Material examined. RUSSIA. *Irkutsk Province*: 4 females, Padun, Verhnyaya Tunguska (= Angara) River, (18)67 (A. Chekanovskiy leg.) (A. Gumovsky det.). KAZAKHSTAN. *Akmola Province*: 1 female, Kokshetau Region, “Borovsk. les. tekhn. Kokchet. r. Akmol”, 17.VII.1932 (V. Popov leg.), 1 female, same label, but 4.VII.1932 (A. Gumovsky det.).

Distribution. Russia: EP (E), ES (*IR) (Yefremova et al., 2000; Yefremova, 2002). – Europe (WE, NE, EE), Kazakhstan.

***Entedon insignis* Erdös, 1944**

Material examined. RUSSIA. *Primorskiy Territory*: 2 males, 3 female, Vladivostok, Okeanskaya, Botanical Garden, 11.VII.1961 (V. Trjapitzin leg.) (A. Gumovsky det.).

Distribution. *Russia: EP (*NW, *C, *S), WS (*AL), FE (*PR). – Europe (WE, NE, SE, EE), *Georgia, Turkey.

Remark. Material for this species from Leningradskaya, Penza, Volgograd Provinces and Altai Territory as well as for Georgia was published by A. Gumovsky (2007) as specimens of synonym of *Entedon sparetus* Walker.

***Entedon marusiki* Gumovsky, 1999**

Distribution. Russia: ES (IR) (Gumovsky, 1999). – Europe (EE), Kazakhstan.

Remark. Gumovsky, (1999) mistakenly designated the label name “Vel.-Anad.” as Anadyr’ in Chukotka Autonomous Area; this is actually the settlement Veliko-Anadol’ in Donetsk Province.

***Entedon nomizonis* Kamijo, 1988**

Material examined. RUSSIA. *Primorskiy Territory*: 1 female, Barabash-Levada, glade, floodplain spring, 2.IX.1978 (D. Kasparyan leg.) (A. Gumovsky det.). *Khabarovsk Territory*: 1 female, 1 male, vicinity of Khabarovsk, “Dva Brata” Hill (D. Kasparyan leg.) (A. Gumovsky det.); 1 female, Vyazemskiy, 20.VIII.1998 (E. Shuvakhina leg.).

Distribution. Russia: FE (*KH, *PR). – Japan.

***Entedon pharnus* Walker, 1839**

Material examined. KAZAKHSTAN. *Akmola Province*: 1 female, Kokshetau Region, “Borovsk. les. tekhn. Kokchet. r. Akmol”, 29.VI.1932 (V. Popov leg.) (A. Gumovsky det.).

Distribution. Russia: EP (E, NC) (Yefremova et al., 2000; Yefremova, 2002; Kostjukov et al., 2004). – Europe (WE, NE, EE), *Kazakhstan.

***Entedon sylvestris* Szelényi, 1981**

Material examined. RUSSIA. *Leningradskaya Province*: 1 female, Romanovka, near Yamburg (= Kingisepp), 2.VII.1905 (Baranovskiy leg.). *Tula Province*: 1 male, “Tul'skaya gubernia, Kolodeznoe” 13.VII.1899 (Bezval' leg.). *Ryazan Province*: 1 male, “Papadino-Plakhino, Mikh. u[ezd] Ryaz.”, 15.VI.1913 (Lebedeva leg.). *Kostroma Province*: 1 female, Kostroma, 16.VII.1933 (V. Gusakovskiy leg.). *Irkutsk Province*: 1 male, Padun, Verhnyaya Tunguska (= Angara) River, 1867 (A. Chekanovskiy leg.) (A. Gumovsky det.). KAZAKHSTAN. *Ural Province*: 1 male, Yanvarsevo, right coast of Ural River, 4.VII.1949 (V. Rudolf leg.); *Almaty Province*: 1 female, “vic. Vernoe” (= Alma-Ata) “Semirech['e]”, 1907 (V. Shnitnikov leg.). *Akmola Province*: 1 male, Kokshetau Region, “Borovsk. les. tekhn. Kokchet. r. Akmol”, 24.VI.1932 (V. Popov leg.) (A. Gumovsky det.).

Distribution. Russia: EP (*NW, *C, *E), ES (*IR). – Europe (WE, SE, EE), *Kazakhstan.

***Entedon zanara* Walker, 1839**

Material examined. RUSSIA. Moscow Province: 2 females, 3 males, Moscow, from larva of *Agrius* sp. (Buprestidae), 1938 (collector unknown).

Distribution. Russia: EP (*C), FE (AM, PR) (Trjapitzin, 1978; Yefremova, 2002). – Europe (WE, NE, SE, EE), China (NE).

***Neochrysocharis cuprifrons* Erdös, 1954**

Material examined. RUSSIA. Leningradskaya Province: 11 females, 11 males, Borisova Griva, 9.VII.1981 (V. Trjapitzin leg.) (C. Hansson det.); 2 females, Pavlovsk, Pavlovskiy park, sweeping, 16.VI.2019 (O. Kosheleva leg.).

Distribution. Russia: EP (*NW, C, E, NC), FE (PR) (Kostjukov, 2000; Yefremova et al., 2000; Kostjukov et al., 2006). – Europe (WE, NE, SE, EE), Turkey.

***Pediobius planiventris* (Thomson, 1878)**

Material examined. RUSSIA. Stavropol Territory: 1 female, 2 males, Essentuki, garden, 12.X.1982 (collector unknown). Republic of Crimea: 2 females, Krymskiy Nature Reserve, parasitoid of *Orchestes quercus* L. (Curculionidae) (W. Bukowski leg.) (W. Bukowski det.).

Distribution. Russia: EP (*NC, *CR). – Europe (WE, NE, EE).

Subfamily Entiinae

***Euderus albatarsis* (Zetterstedt, 1838)**

Material examined. RUSSIA. Primorskiy Territory: 2 females, Vladivostok, Okeanskaya, Botanical Garden, 11.VII.1961 (V. Trjapitzin leg.). Chukotka Autonomous Area: 1 female, 1 male, Wrangel Island, 7 km SE of Sovetskaya, Khishchnikov River valley, 11.VII.1972 (K. Gorodkov leg.).

Distribution. Russia: EP (C, E, NC) (Kostjukov et al., 2004; Yegorenkova et al., 2007), *FE (PR, CH). – Europe (WE, NE, SE, EE), Israel, Yemen, Tajikistan, Kyrgyzstan, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan, N America, India.

***Euderus viridis* Thomson, 1878**

Material examined. RUSSIA. Republic of Karelia: 1 female, 4 males, “Kivach” Nature Reserve, sq 43, Betula nana L., 15.VI.1973 (N. Gavrilina leg.); 1 male, same label, pupa, 16.XI.1972 (N. Gavrilina leg.); 2 females, same label, pupa, 18.XI.1972 (N. Gavrilina leg.). Sverdlovskaya Province: 1 female, Chernoistochinsk, 26.VIII.1982 (V. Trjapitzin leg.). Republic of Sakha (Yakutia): 1 female, Derbilgilax (?) River, 10.VIII.1875 (A. Chekanovskiy leg.). Primorskiy Territory: 8 females, Partizansk District, Suchan (=Partizanskaya) River, 11–12.VII.1961 (E. Shuvakhina leg.); 1 female, 1 male, Vladivostok, Okeanskaya, Botanical Garden, 11.VII.1961 (V. Trjapitzin leg.); 1 female, Vladivostok, Akademgorodok, 8.VIII.1961 (M. Kozlov leg.); 1 male, same locality, 27.VIII.1961 (V. Trjapitzin leg.); 1 female, Vladivostok, Sedanka, 23.VII.1961 (E. Shuvakhina leg.), 1 male, Vladivostok, Sedanka, grass, 6.VIII.1961 (M. Kozlov leg.); 1 female, 1 male, Ussuriysk, field, grass, 19.VII.1961 (M. Kozlov leg.); 1 female, Artem, garden, trees and shrubs, 21.VII.1961 (M. Kozlov leg.); 1 female, Artem, Maykhe (=Artyomovka) River, trees and shrubs, 21.VII.1961 (M. Kozlov leg.); 1 male, Kamen-Rybolov, Khanka Lake, 30.VII.1961 (O. Kovalev leg.); 1 female, Suputinskuy (=Ussuriyskiy) Nature Reserve, 8.VIII.1961 (E. Shuvakhina leg.); 1 female, Gornotayezhnoe, margin of forest, 9.VIII.1961 (V. Trjapitzin); 1 male, Sudzukhe (=Kievka) River, 25.VIII.1961 (O. Kovalev leg.), 5 females, same label (V. Trjapitzin leg.). TAJIKISTAN. 2 females, Stalinabad (=Dushanbe), 29.V.1934 (V. Gussakovskiy leg.).

Distribution. *Russia: EP (N), UR, ES (YA), FE (PR). – Europe (WE, NE, SE, EE), *Tajikistan.

Subfamily Tetrastichinae

***Ootetrastichus crino* (Walker, 1838)**

Material examined. RUSSIA. Khabarovsk Territory: 1 female, Chegdomyn, 15.VII.1984 (N. Storozheva leg.).

Distribution. Russia: EP (C, E, S, NC), FE (*KH, PR) (Trjapitzin, 1978; Storozheva et al., 1995; Yegorenkova et al., 2007). – Europe (WE, NE, SE, EE), Turkey, China (CC), N America.

***Chrysotetrastichus suevius* (Walker, 1839)**

Material examined. RUSSIA. Leningradskaya Province: 350 females, 150 males, St Petersburg, Pushkin, VIZR, Viburnum sp., 31.VII–8.VIII.2018 (O. Kosheleva leg.).

Distribution. Russia: EP (*NW, NC), FE (KH, PR) (Kostjukov, 2000; Kostjukov et al., 2004). – Europe (WE, NE, SE, EE).

***Crataepus marbis* (Walker, 1839)**

Material examined. RUSSIA. Primorskiy Territory: 3 females, 20 km NW of Spassk-Dal'niy, 19.VII.1998 (S. Belokobylskij leg.).

Distribution. Russia: EP (NW, E, NC), *FE (PR) (Trjapitzin, 1978; Storozheva et al., 1995; Yegorenkova et al., 2007). – Europe (WE, NE, SE, EE), Turkey, Uzbekistan, N America.

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