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## SAWFLIES (HYMENOPTERA, SYMPHYTA) OF THE RUSSIAN FAR EAST. ADDITIONS AND CORRECTIONS

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Additional list of seventy-one species of sawflies recorded from the Russian Far East in the last years is given. The genera *Apethymus* Benson, 1939, *Endelomyia* Ashmead, 1898, *Masaakia* Takeuchi, 1950, *Parasiobla* Ashmead, 1898, *Parna* Benson, 1936, *Phymatocera* Dahlbom, 1835, *Pikonema* Ross, 1937, *Pseudodineura* Konow, 1885, and *Spinarge* Wei, 1998 are newly recorded from the Russian Far East. Synonymized *Propodea* Malaise, 1945, *Cladius* (*Priophorus*) *pallipes* (Serville, 1823), and *Konowia betulae* (Enslin, 1911) are excluded from the list of symphytan fauna of the Russian Far East.

KEY WORDS: Hymenoptera, Symphyta, sawflies, Russian Far East.

**Ю.Н. Сундуков, А.С. Лелей. Рогохвосты и пилильщики (Hymenoptera, Symphyta) Дальнего Востока России. Дополнения и исправления // Дальневосточный энтомолог. 2009. № 200. С. 1-12.**

Дается дополнительный список 71 видов пилильщиков, указанных ранее или отмеченных в последние годы с Дальнего Востока России. Роды *Apethymus* Benson, 1939, *Endelomyia* Ashmead, 1898, *Masaakia* Takeuchi, 1950, *Parasiobla* Ashmead, 1898, *Parna* Benson, 1936, *Phymatocera* Dahlbom, 1835, *Pikonema* Ross, 1937, *Pseudodineura* Konow, 1885 и *Spinarge* Wei, 1998 указываются впервые

для Дальнего Востока России. Синонимизированные *Propodea* Malaise, 1945, *Cladius* (*Priophorus*) *pallipes* (Serville, 1823) и *Konowia betulae* (Enslin, 1911) исключены из списка симфит фауны Дальнего Востока.

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### INTRODUCTION

In the recent publications (Lelej & Taeger, 2007a-k; Shinohara & Lelej, 2007) 662 species in 119 genera from 12 families of Symphyta were recorded from the Russian Far East. After the study all relevant references we found additional 71 species and nine genera omitted previously. Furthermore the status of some species was changed also. Currently the Symphyta of the Russian Far East numbers 733 species in 127 genera from 12 families (Table 1).

Table 1

Number of Symphyta from the Russian Far East

Family	Recorded species	Expected species*	Total
1. Xyelidae	7	6	13
2. Pamphiliidae	53	31	84
3. Megalodontesidae	1	1	2
4. Argidae	34	15	49
5. Blasticotomidae	3	1	4
6. Cimbicidae	47	6	53
7. Diprionidae	8	3	11
8. Tenthredinidae	543	172	715
9. Siricidae	13	2	15
10. Xiphydriidae	11	2	13
11. Cephidae	12	8	20
12. Orussidae	1	1	2
Total	733	248	981

\* The species widely distributed in Holarctic or Palaearctic and recorded from neighboring areas.

The study of Symphyta from the Russian Far East is not complete. Probably it is richest regional fauna in Russia and represents by mainly widely distributed Palaearctic and Holarctic species. Many Eastern Palaearctic and even Oriental genera and species are distributed in the south of the Russian Far East. The symphytan fauna of China no less than 2000 species (Wei et al., 2006), more than 700 species occur in Korea and Japan separately (Mokuroku, 2006; Naito, 2004; Shinohara, 1995, 2001, 2004; Togashi, 2000, 2003, 2007). The expected number of the symphytan species in the Russian Far East will be 1000-1100 that somewhat less than in Europe – 1361 species (Taeger *et al.*, 2006) or in North America – 1245 species (Smith, 1979; Taeger & Blank, 2008).

## ADDITIONS

### Family PAMPHILIIDAE

*Pamphilius takeuchii* Beneš, 1972 – Primorskii krai (Shinohara, 1979), south of Far East (Zhelochovtsev, Zinovjev, 1995). – Japan (Hokkaido, Honshu, Shikoku, Kyushu).

### Family ARGIDAE

*Arge expansa* (Klug, 1834) – Kamchatka (Kriechbaumer, 1884: *Hylotoma*). – China (Neimenggu), Mongolia, Europe.

*Arge fuscipes* (Fallén, 1808) – Khabarovskii krai (Ayan, mouth of Amur river), Kamchatka (Gussakovskij, 1935; Verzhutskii, 1974); Siberia, European part of Russia. – Mongolia, Europe.

*Sterictiphora geminata* (Gmelin, 1790) – Primorskii krai, Kamchatka (Zhelochovtsev, 1988; Gussakovskij, 1935: *Schizocera*); Verzhutskii, 1973); Baikal region. – Palearctic.

### Family CIMBICIDAE

*Trichiosoma pusillum* Stephens, 1835 – Amurskaya oblast': Ulunga (Gussakovskij, 1947: *Trichiosoma nigripes* Gussakovskij, 1947; Verzhutskii, 1966, 1974: *T. nigripes*); Eastern Siberia, Karelia. – Finland, North Europe.

*Trichiosoma vitellina* (Linnaeus, 1761) – Primorskii krai (Taeger & Blank, 2008), North of Far East (basin of Indigirka River - Gussakovskij, 1947: *Trichiosoma boreale* Gussakovskij, 1947); Yakutia (Zhelochovtsev, 1988: *T. boreale*), Eastern Siberia. – Korea (Lee & Jung, 1999), Japan (Honshu), Mongolia. – Palearctic.

### Family TENTHREDINIDAE

#### Subfamily ALLANTINAE

*Ametastegia geranii* (Takeuchi, 1929) – Kuril Islands (Kunashir) (Haris, 2006a). – Japan (Honshu, Shikoku).

*Ametastegia polygona* Takeuchi, 1929 – South Sakhalin, Kuril Islands (Kunashir) (Haris, 2006a). – Japan (Honshu, Kyushu), China (Hubei).

*Apethymus* Benson, 1939. – One species from the Russian Far East.

*Apethymus parallelus* (Eversmann, 1847) – Magadan (Zhelochovtsev, Zinovjev, 1996: *Allantus*; Koch, 1988; Lacourt, 1999). – Urals.

*Athalia lugens* (Klug, 1815) – Kamchatka (Forsius, 1928: *Athalia lugens camtschatica* Forsius, 1928), Primorskii krai (Zhelochovtsev, 1988); European part of Russia, Caucasus. – Korea, China (Hubei), Japan (Honshu), Europe.

*Empria camtschatica* Forsius, 1928 – Kamchatka (Forsius, 1928).

*Empria gelida* (Erichson, 1851) – Khabarovsk (Erichson, 1851: *Tenthredo*).

*Empria immersa* (Klug, 1818) – Russian Far East (Zhelochovtsev, 1988); Transbaikalia, Siberia, north of European part of Russia. – Mongolia, North Europe.

*Empria itelmene* Malaise, 1931 – Kamchatka (Malaise, 1931).

Subfamily BLENNOCAMPINAE

- Masaakia* Takeuchi, 1950. – One species from the Russian Far East.  
*Masaakia kichizoi* Haris, 2006 – Kuril Islands (Kunashir) (Haris, 2006a).  
*Phymatocera* Dahlbom, 1835. – One species from the Russian Far East.  
*Phymatocera nipponica* Togashi, 1958 – Sakhalin (Haris, 2006a). – Korea (Lee et al., 2000), Japan (Honshu, Shikoku, Kyushu).

Subfamily HETERARTHRIINAE

- Endelomyia* Ashmead, 1898. – One species from the Russian Far East.  
*Endelomyia aethiops* (Gmelin, 1790) – Primorskii krai (Shtundyuk & Zhelochovtsev, 1974); Southern Siberia. – Palaearctic, introduced in North America (Eastern Canada, North-East USA).  
*Fenusella wuestneii* (Konow, 1894) – Khabarovsk (Shtundyuk & Zhelochovtsev, 1974); Baikal region. – Alaska. – Holarctic.  
*Heterarthrus aihinoensis* Haris, 2006 – Kuril Islands (Kunashir) (Haris, 2006a).  
*Parna* Benson, 1936. – One species from the Russian Far East.  
*Parna tenella* (Klug, 1816) – Primorskii krai (Tomilova, 1974); European part of Russia, Caucasus. – Japan (Honshu) (Smith, 1981), Transcaucasus, Europe.

Subfamily NEMATINAE

- Amauronematus bergmani* Malaise, 1931 – Kamchatka (Malaise, 1931).  
*Amauronematus (Amauronematus) pacificus* Malaise, 1931 – Kamchatka (Malaise, 1931), Siberia.  
*Amauronematus pseudoleptocephalus* Haris, 2006 – Sakhalin (Haris, 2006a).  
*Amauronematus (Brachycoluma) temporalis* Hellén, 1970 – ?Kamchatka (Zhelochovtsev, 1988), European part of Russia. – Finland.  
*Hoplocampa plagiata* (Klug, 1816) – Khabarovsk (Shtundyuk & Zhelochovtsev, 1974), European part of Russia. – Europe.  
*Nematus ermolenkoi* Haris, 2006 – Kuril Islands (Kunashir) (Haris, 2006a).  
*Nematus kunasirensis* Haris, 2006 – Kuril Islands (Kunashir) (Haris, 2006a).  
*Nematus (Nematus) lucidus* (Panzer, 1801) – Kuril Islands (Kunashir) (Haris, 2006a), northern Caucasus. – Japan (Hokkaido, Honshu), Baltic region, South Europe.  
*Nematus (Kontuniemiana) ribesii* (Scopoli, 1763) – Primorskii krai, Khabarovsk (Shtundyuk & Zhelochovtsev, 1974), Zabaikalskii krai. – Korea (Haris, 2003), Japan (Honshu). – Palaearctic, introduced in North America.  
*Nematus (Pteronidea) sylvestris* Cameron, 1884 – Sakhalin (Haris, 2006a), Siberia, European part of Russia, Caucasus. – North Europe.  
*Nematus (Pteronidea) viridis* Stephens, 1835 – Sakhalin (Haris, 2006a: *Nematus prasinus* Hartig, 1837), East Siberia, European part of Russia. – Kazakhstan, Europe.  
*Pachynematus (Pachynematus) fallax* (Serville, 1823) – Kamchatka (Zhelochovtsev, 1988: *Nematus*; Zhelochovtsev & Zinovjev, 1995: *Amauronematus*). – Japan

- (Honshu) (Takeuchi, 1952), Alaska. – Holarctic. This species is widely distributed in Western Europe, Japan and North America and should be in Russia also in spite that Zinovjev (2000) wrote that this species not found here.
- Pachynematus hirowatarii*** Haris et Zsolnai, 2006 – Sakhalin (Haris, 2006a). – North Korea (Haris & Zsolnai, 2007).
- Pikonema*** Ross, 1937. – One species from the Russian Far East.
- Pikonema insigne*** (Hartig, 1840) – Primorskii krai (Zhelochovtsev, 1988: *Nematus*; Zhelochovtsev & Zinovjev, 1995), Siberia, European part of Russia. – Europe.
- Pontania (Eupontania) arcticornis*** Konow, 1904 – Far East (Zhelochovtsev, 1988: *Nematus*), Yakutia, Zabaikalskii krai. – Korea (Haris, 2003). Palearctic.
- Pontania camtschatica*** Forsius, 1928 – Kamchatka (Forsius, 1928).
- Pontania (Eupontania) pedunculi*** Hartig, 1837 – Kamchatka, east of Russian Far East, ?south of Russian Far East (Zhelochovtsev, 1988: *Nematus*; Zhelochovtsev & Zinovjev, 1995: *Pontania pedunculi* sensu auct.), Siberia, European part of Russia. – Korea (Haris, 2003), Latvia, Sweden.
- Pontania (Pontania) proxima*** (Serville, 1823) – Kamchatka (Zhelochovtsev, 1988: *Nematus*), North of Kuril Islands (Atlasova) (Ermolenko, 1981); Baikal region. – Holarctic, Australia, New Zealand.
- Pristicampus incisus*** (Lindqvist, 1970) – North of Far East (Zhelochovtsev & Zinovjev, 1995); Baikal region (Lindqvist, 1970; Verzhutskii, 1974). – Finland, Scotland.
- Pristiphora anivskiensis*** Haris, 2006 – Sakhalin (Haris, 2006a, b).
- Pristiphora (Pristiphora) appendiculata*** (Hartig, 1837) – Russian Far East (Haris, 2006b). – Japan, China (Neimenggu), Mongolia. – Holarctic.
- Pristiphora (Gymnonychus) biscalis*** (Förster, 1854) – Sakhalin (Haris, 2006a), Baikal region, European part of Russia, Caucasus. – China, Middle Asia, Europe.
- Pristiphora (Pristiphora) geniculata*** (Hartig, 1840) – Kamchatka (Zhelochovtsev, 1988: *Nematus*; Haris, 2006b), Siberia. – Mongolia, China (Neimenggu). – Holarctic.
- Pristiphora (Pristiphora) insularis*** Rohwer, 1910 (*P. kamtschatica* Malaise, 1931, *P. mesatlantica* Lacourt, 1976) – Magadan (Haris, 2006b), Kamchatka (Haris, 2006b; Malaise, 1931), Karelia. – Japan (Rohwer, 1910), Finland, Europe.
- Pristiphora pseudomelanocarpa*** Haris, 2006 – Kuril Islands (Kunashir) (Haris, 2006a, b).
- Pristiphora (Pristiphora) punctifrons*** C.G. Thomson, 1871 – Sakhalin (Haris, 2006a); Baikal region. – Japan (Honshu), Mongolia. – Palearctic.
- Pristiphora salicivora*** (Takeuchi, 1922) – Sakhalin (Haris, 2006b). – Japan (Honshu).
- Pristiphora (Pristiphora) staudingeri*** (Ruthe, 1859) – Russian Far East (Zhelochovtsev, 1988: *Nematus*; Zhelochovtsev & Zinovjev, 1995; Verzhutskii, 1974; Haris, 2006b), Zabaikalskii krai. – Mongolia, China, Alaska. – Holarctic.

- Pristiphora (Lygaeonematus) tenuicornis* (Lindqvist, 1955) – Central Yakutia (Kaymuk, 1988: *Lygaeonematus*), East Siberia, European part of Russia. – Korea (Haris, 2003, 2006b), Sweden, Finland.
- Pristiphora (Pristiphora) thalictri* (Kriechbaumer, 1884) – Kuril Islands (Kunashir) (Haris, 2006a), East Siberia. – Korea, Japan (Honshu), Mongolia, Europe.
- Pseudodineura* Konow, 1885. – One species from the Russian Far East.
- Pseudodineura fuscula* (Klug, 1816) – Russian Far East (Zhelochovtsev, 1988), Baikal region. – Holarctic.

Subfamily SELANDRIINAE

- Brachythops wuestneii* (Konow, 1885) – Khabarovsk (Shtundyuk & Zhelochovtsev, 1974); Baikal region. – Alaska. – Holarctic.
- Dolerus (Poodolerus) asper* Zaddach, 1859 – South of Russian Far East (Zhelochovtsev, 1988; Zhelochovtsev & Zinovjev, 1992, 1996); Buryatia, South Yakutia. – North Mongolia, China, Europe, Turkey.
- Dolerus (Dolerus) germanicus fuscipennis* (Stephens, 1835) – Kamchatka (Enslin, 1927: *Dolerus arcticus* C.G. Thomson, 1871) – Europe.
- Dolerus (Equidolerus) gessneri* André, 1880 – Amurskaya oblast' (Zhelochovtsev & Zinovjev, 1992), Sakhalin (Haris, 2006a), Buryatia. – Japan (Hokkaido), China, Alaska. – Holarctic.
- Dolerus okeanskajensis* Rohwer, 1925 – Vladivostok (Rohwer, 1925). – Korea (Lee et al., 2000).
- Dolerus (Loderus) pratorum* (Fallén, 1808) – Amurskaya oblast' (Zhelochovtsev & Zinovjev, 1992: *Loderus*; Zhelochovtsev, 1988: *Loderus*); Buryatia. – North-East China. – Holarctic.
- Dolerus sachalinensis* Takeuchi, 1936 – Sakhalin (Takeuchi, 1936; Haris, 2006a).
- Strongylogaster baikalensis* Naito, 1990 – Khabarovsk (Taeger & Blank, 2008); Baikal region (Naito, 1990; Zhelochovtsev & Zinovjev, 1996).
- Thrinax formosana* (Takeuchi, 1928) – Primorskii krai (Malaise, 1947: *Hemitanonxus struthiopteridis formosanus* Takeuchi, 1928). – China (east, Taiwan).

Subfamily TENTHREDININAE

- Pachyprotasis senjensis* Inomata, 1984 – Sakhalin, Kuril Islands (Kunashir) (Haris, 2006a). – Japan (Honshu), China (Gansu, Henan).
- Pachyprotasis zukaensis* Inomata, 1970 – Sakhalin, Kuril Islands (Kunashir) (Haris, 2006a). – Japan (Honshu).
- Rhogogaster (Rhogogaster) chlorosoma* (Benson, 1943) – Sakhalin, Kuril Islands (Kunashir) (Haris, 2006a), Baikal region, Siberia, European part of Russia. – Japan, Mongolia, Europe.
- Siobla frigida* (Mocsáry, 1909) – Jewish autonomous region (Birobidzhan) (Mocsáry, 1909: *Encarsioneura*). – China (east, south-east).
- Siobla sturmii* (Klug, 1817) – Amurskaya oblast' (Zhelochovtsev, 1988; Zhelochovtsev & Zinovjev, 1992), Sakhalin, Kuril Islands (Kunashir) (Haris, 2006a), South Yakutia. – Japan (Hokkaido, Honshu), China (Henan). – Palaearctic.

- Tenthredo (Tenthredella) bipunctula* Klug, 1817 – Sakhalin, Kuril Islands (Kunashir) (Haris, 2006a), European part of Russia. – Japan (Honshu), Europe.
- Tenthredo (Tenthredo) brevicornis* (Konow, 1886) – Kamchatka (Enslin, 1927), Primorskii krai (Zhelochovtsev, 1988; Zhelochovtsev & Zinovjev, 1996). – Palaearctic.
- Tenthredo fulviventris* Mocsáry, 1909 – Jewish autonomous region (Birobidzhan) (Mocsáry 1909).
- Tenthredo intercincta* (Malaise, 1934) – Primorskii krai (Taeger & Blank, 2008). – China (Gansu).
- Tenthredo (Temuledo) japonica* (Mocsáry, 1909) – Kuril Islands (Kunashir) (Haris, 2006a). – Japan (Honshu, Shikoku, Kyushu), China (east).
- Tenthredo providens* F. Smith, 1874 – Kuril Islands (Kunashir) (Haris, 2006a). – Japan (Honshu, Sado, Awashima, Shikoku, Kyushu).
- Tenthredo yezoensis* Kumamoto, 1987 – Sakhalin (Haris, 2006a). – Japan (Hokkaido).
- Tenthredopsis languida* (Erichson, 1851) – Khabarovsk (Erichson, 1851: *Tenthredo*), Baikal region (Verzhutskii, 1974).

### CORRECTIONS

In the recently published papers on Symphyta (Haris, 2006b; Saini et al., 2006; Taeger et al., 2006; Taeger & Blank, 1996, 2008; Wei et al., 2006) the taxonomic position of some species was changed. Below the corrections of the Far Eastern species list (Lelej & Taeger, 2007c, g, i). are given.

#### Family ARGIDAE

- Arge captiva flavicollis* (Cameron, 1876) [*Arge flavicollis* (Cameron, 1876): Lelej & Taeger, 2007c: 943].
- Arge solowiyofka* (Matsumura, 1911) [*Arge jonasi* (W.F. Kirby, 1882): Lelej & Taeger, 2007c: 943] – South Sakhalin. – Japan (Hokkaido, Honshu) (Hara et al., 2007). The true *Arge jonasi* (W.F. Kirby, 1882) occurs in Japan (Honshu) and China (Hara et al., 2007).
- Spinarge* Wei, 1998 [*Arge* Schrank, 1802, part.: Lelej & Taeger, 2007c: 943]. – Two species from the Russian Far East.
- Spinarge fulvicornis* (Mocsáry, 1909) [*Arge fulvicornis* Mocsáry, 1909: Lelej & Taeger, 2007c: 943].
- Spinarge metallica* (Klug, 1824) [*Arge metallica* (Klug, 1834): Lelej & Taeger, 2007c: 943].

#### Family TENTHREDINIDAE

- Aglaostigma tricolor* (Malaise, 1931) [*Aglaostigma (Macrophyopsis) nebulosum* (André, 1881): Lelej & Taeger, 2007g: 956]. The specific status of *A. tricolor* is resurrected by Taeger & Blank (1996).

- Amauronematus bergmani* Malaise, 1931 [*Amauronematus kamtchaticus* (Lindqvist, 1976): Lelej & Taeger, 2007g: 951]. The true data of *kamtchaticus* description is 1971 not 1976 (Lindqvist, 1971).
- Cladius (Priophorus) compressicornis* (Fabricius, 1804) [*Pachynematus (Stauronematus) compressicornis* (Fabricius, 1804): Lelej & Taeger, 2007g: 952; *Cladius (Priophorus) pallipes* (Serville, 1823): Lelej & Taeger, 2007g: 949].
- Heterarthrus vagans* (Fallén, 1808) [*Heterarthrus kamtchaticus* (Malaise, 1931): Lelej & Taeger, 2007g: 953].
- Nematus leptocephalus* C.G. Thomson, 1863 [*Amauronematus leptocephalus* (C.G. Thomson, 1863): Lelej & Taeger, 2007g: 951].
- Pachynematus longicornis* Malaise, 1931 [*Pristiphora (Lygaeotus) longicornis* (Malaise, 1931): Lelej & Taeger, 2007g: 953].
- Parasiobla* Ashmead, 1898 (*Taxonus* Hartig, 1837, part.: Lelej & Taeger, 2007g: 955). – One species from the Russian Far East.
- Parasiobla zhelochovtsevi* (Viitasaari et Zinovjev, 1991) (*Taxonus zhelochovtsevi* Viitasaari et Zinovjev, 1991: Lelej & Taeger, 2007g: 955).
- Pontania (Eupontania) herbaceae* (Cameron, 1876) [*Pontania (Eupontania) polaris* Malaise, 1920: Lelej & Taeger, 2007g: 952].
- Pontania albopicta* Malaise, 1931 (*Phyllocolpa albopicta* Malaise, 1931: Lelej & Taeger, 2007g: 951).
- Pontania sibirica* Malaise, 1931 (*Phyllocolpa sibirica* Malaise, 1931: Lelej & Taeger, 2007g: 951).
- Pristiphora (Pristiphora) insularis* Rohwer, 1910 [*Pristiphora (Pristiphora) kamtchatica* Malaise, 1931: Lelej & Taeger, 2007g: 952) – Holarctic.
- Tenthredo* Linnaeus, 1758 (*Propodea* Malaise, 1945: Lelej & Taeger, 2007g: 956). – Ninety-one species from the Russian Far East.
- Tenthredo (Eurogaster) deaurata* Enslin, 1912. The *deaurata* has been described by Enslin in 1912 not 1920.
- Tenthredo fentoni* (W.F. Kirby, 1882) [*Propodea fentoni* (Kirby, 1882): Lelej & Taeger, 2007g: 956].

#### Family XIPHYDRIIDAE

- Konowia megapolitana* Brauns, 1884 [*Konowia betulae* (Enslin, 1911): Lelej & Taeger, 2007i: 960]. The synonymy of these species has been proposed by Shcherbakov (2008).

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