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## FIVE NEW SPECIES OF THE FAMILY SCATHOPHAGIDAE (DIPTERA) FROM CHINA

**A. L. Ozerov**

*Zoological Museum, Moscow Lomonosov State University, Bol'shaya Nikitskaya 6,  
Moscow 125009, Russia. E-mail: ozerov2455@rambler.ru*

Five new species of Scathophagidae (*Parallelomma melanothorax* sp. n., *P. chinensis* sp. n., *P. belousovi* sp. n., *P. kabaki* sp. n., and *Megaphthalmoides nigroantennatus* sp. n.) are described from China. Completely black thorax is typical for all new *Parallelomma* species and distinguishes them from the other species of this genus. Key to species of *Parallelomma* of China is given.

KEY WORDS: Diptera, Scathophagidae, *Parallelomma*, *Megaphthalmoides*, taxonomy, new species, China.

**А.Л. Озеров. Пять новых видов двукрылых семейства Scathophagidae (Diptera) из Китая // Дальневосточный энтомолог. 2012. N 244. С. 1-9.**

Из Китая описаны пять новых видов из семейства Scathophagidae (Diptera): *Parallelomma melanothorax* sp. n., *P. chinensis* sp. n., *P. belousovi* sp. n., *P. kabaki* sp. n. и *Megaphthalmoides nigroantennatus* sp. n. Новые виды *Parallelomma* сходны между собой и легко отличаются от других видов этого рода полностью черной грудью. Приведена таблица для определения видов рода *Parallelomma* Китая.

*Зоологический музей, Московский государственный университет им. М.В. Ломоносова, Большая Никитская ул., 6, Москва 125009, Россия.*

## INTRODUCTION

*Parallelomma* Strobl, 1894 and *Megaphthalmoides* Ringdahl, 1936 are small genera within the family Scathophagidae. Nine–eleven species of *Parallelomma* are known in the World (Vockeroth, 1965, 1977; Gorodkov, 1986; Ozerov, 2009, 2010), and only one of them, *P. albamentum* (Séguy, 1963), was registered in China. The larvae of *Parallelomma* mine leaves of Liliaceae and Orchidaceae. *Megaphthalmoides* includes two described species, *M. unilineatus* (Zetterstedt, 1938) and *M. japonicus* Ozerov, 2009 (Ozerov, 2009), both not registered in China.

While determining new material of Scathophagidae from China has been received by the collection of Zoological Museum of the Moscow State University (ZMUM) in 2011 I discovered four more undescribed species of *Parallelomma* and one new species of *Megaphthalmoides*. The descriptions of these species are given below. Holotypes and paratypes of the new species are kept in ZMUM.

All four new species of *Parallelomma* may be separated from all other species of this genus by the completely black thorax (Fig. 9). *P. albamentum*, as well as two other species, *P. vittatum* (Meigen, 1826) and *P. merzi* Ozerov, 2009, mentioned in Oriental region has yellow thoracic sclerites (katepisternum, meron, and metepisternum). All new species of *Parallelomma* together with *P. vittatum* has similar structures of male sternites 4 and 5, cerci and surstyli. Differences between China species of *Parallelomma* given in key below.

Terminology follows McAlpine (1981) and White et al (1999). The following abbreviations are used: a – anterior; p – posterior; d – dorsal; v – ventral; and combinations of these latter four, all used for leg chaetotaxy.

## DESCRIPTIONS OF NEW SPECIES

### *Parallelomma melanothorax* Ozerov, sp. n.

Figs 1–4, 9

**MATERIAL.** Holotype – ♂, **China:** Sichuan, SW Mianning Town (28°15'19" N, 101°43'42" E), 3960 m, 09.VII 2011, leg. Belousov, Kabak. Paratypes: 1 ♂, same label as holotype; 1 ♂, China: Yunnan, Ailaoshan Mt. Range W Shuitangzhen Town (24°08'31" N, 101°23'52" E), 2555 m, 04.VI 2011, leg. Belousov, Kabak.

**DESCRIPTION. MALE.** Frons black with brownish, matt. Face black. Parafacial yellow. Gena brown. Postcranium black, greyish microtrichose. Ocellar triangle black. Antennae, palpi and prementum black. 2 orbitals, 2 frontals, 1 ocellar, 1 weak posteroventral, 1 inner vertical, and 1 outer vertical (approximately 1/3–1/2 times as long as inner vertical). Postcranium with short black setulae in upper part and yellow hairs in lower part. 1 vibrissa present. Postpedicel rounded apically, approximately 2 times as long as wide. Arista very short haired on whole length.

Thorax completely black, subshining. Scutum with 1 short postpronotal, 2 notopleurals (posterior weaker than anterior), 0+1 supra-alars, 2 postalars, 1+3 weak dorsocentrals; intra-alar and acrostichal setae absent; 1 proepisternal and 1 proepimeral

setae present, both near lower margin; proepisternal without setulae at middle; anepisternum with hairs in posterior part and 2–3 long setae (setulae) near posterior margin; katepisternum with 1 strong seta near upper posterior corner. Scutellum with 2 strong subapical setae, apicals as hairs.

Legs black, only forefemur apically, foretibia basally and hindtibia brownish. Forefemur with 1 *pv* and 1 *pd* near apex and with 2 *pd* at middle. Foretibia with 1 *p* at middle and with ring of apical setae. Midfemur with 2–3 *a* and 1 apical *p*. Midtibia with 2 *pd*, 1 *a* in apical third, and with ring of apical setae. Hindfemur with 1 *ad* at middle and 1 apical *a*. Hindtibia with 2 *ad* and 2–3 *pd*, and apicals *d*, *ad* and *av*.

Wing blackish; veins black. Upper calypter darkened, with dark margin. Lower calypter and haltere whitish.



Fig. 1. *Parallelomma melanothorax* sp. n., adult, holotype.

Abdomen black, shining, covered with black hairs, with long lateral marginal setae on tergites (1+2)–5 and long lateral setae at middle on tergite 1+2. Sternites 4 and 5 as in Figs. 1, 2. Epandrium and surstyli as in Figs. 3, 4.

MEASUREMENTS. Length of body 4.5–5.1 mm, length of wing 4.2–4.6 mm.

FEMALE unknown.

DISTRIBUTION. China: Sichuan, Yunnan.



Figs 2-9. *Parallelomma melanothorax* sp. n., male paratype (2-5) and *P. chinensis* sp. n., holotype (6-9): 2, 6 – sternite 4; 3, 7 – sternite 5; 4, 8 – epandrium and surstyli, lateral view; 5, 9 – same, dorsal view.

***Parallelomma chinensis* Ozerov, sp. n.**

Figs 5–8

MATERIAL. Holotype – ♂, **China**: Sichuan, SW Mianning Town (28°15'19" N, 101°43'42" E), 3960 m, 09.VII 2011, leg. Belousov, Kabak.

DESCRIPTION. MALE. Frons black with brownish, matt. Face black. Parafacial and gena brown. Postcranium black, greyish microtrichose. Ocellar triangle black.

Antennae, palpi and prementum black. 2 orbitals, 2 frontals, 1 ocellar, 1 weak posteroventral, 1 inner vertical, and 1 outer vertical (approximately 1/2 times as long as inner vertical). Postcranium with short black setulae in upper part and yellow hairs in lower part. 1 vibrissa present. Postpedicel rounded apically, approximately 2 times as long as wide. Arista very short haired on whole length.

Thorax completely black, subshining. Scutum with 1 long postpronotal, 2 notopleurals (posterior weaker than anterior), 0+1 supra-alars, 2 postalars, 1+3 dorsocentrals (only prescutellar strong); intra-alar and acrostichal setae absent; 1 proepisternal and 1 proepimeral setae present, both near lower margin; proepisternal without setulae at middle; anepisternum with hairs in posterior part and 1–2 long setae near posterior margin; katepisternum with 1 strong long seta near upper posterior corner. Scutellum with 2 strong subapical setae (1 pair), apicals as hairs.

Legs yellow, only mid and hind coxae and all tarsi blackish; mid and hind femora each with black ring apically. Forefemur with 1 *p* near apex and with 3 *pd* at middle. Foretibia with 2 *p* at middle and with ring of apical setae. Midfemur with row setae anteriorly and 1 apical *p*. Midtibia with 2 *pd*, 1 *a* in apical third, and with ring of apical setae. Hindfemur with row *ad* and apically with 1 *a* and 1 *av*. Hindtibia with 2 *ad* and 2 *pd*, and apicals *d*, *ad* and *av*.

Wing blackish; veins black. Upper calypter darkened, with dark margin. Lower calypter and haltere whitish.

Abdomen black, shining, covered black hairs, with long lateral marginal setae on tergites (1+2)–5 and long lateral setae at middle on tergite 1+2. Sternites 4 and 5 as in Figs. 5, 6. Epandrium and surstyli as in Figs. 7, 8.

MEASUREMENTS. Length of body 5.0 mm, length of wing 4.6 mm.

FEMALE unknown.

DISTRIBUTION. China: Sichuan.

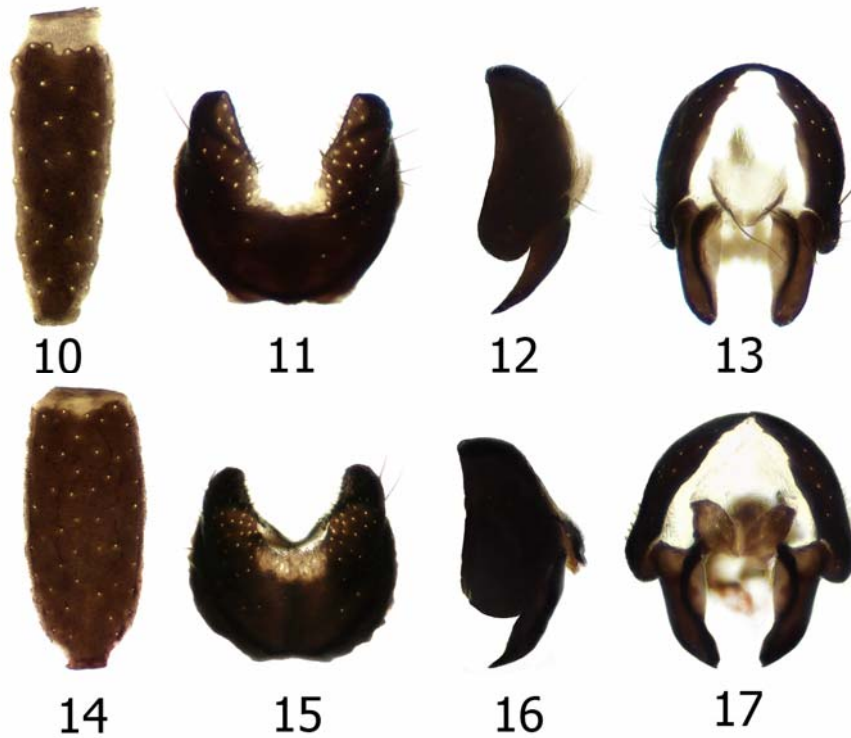
***Parallelomma belousovi* Ozerov, sp. n.**

Figs 10–13

MATERIAL. Holotype – ♂, **China**: Sichuan, SW Pingchuan Town (22°39'35" N, 101°44'28" E), 3445 m, 16.VII 2011, leg. Belousov, Kabak. Paratypes: 1 ♂, same label as holotype; 1 ♀, China: Sichuan, SW Mianning Town (28°15'19" N, 101°43'42" E), 3960 m, 09.VII 2011, leg. Belousov, Kabak.

DESCRIPTION. MALE. FEMALE. Frons yellow, matt, subshiny black along margin of eye. Face, parafacial and gena pale yellow. Postcranium black in upper part and yellow in lower third, subshining. Ocellar triangle black. Scapus and pedicel yellow, postpedicel black. Palpi, prementum pale yellow. 2 orbitals, 2 frontals, 1 ocellar, 1 weak posteroventral, 1 inner vertical, and 1 outer vertical (approximately 1/3–1/2 times as long as inner vertical). Postcranium with short black setulae in upper part and yellow hairs in lower part. 1 vibrissa present. Postpedicel rounded apically, approximately 2 times as long as wide. Arista very short haired on whole length.

Thorax black, shining, only proepisternum and proepimeron near lower margin and katepimeron yellow. Scutum with 2 notopleurals (posterior weak that anterior), 0+1 supra-alars, 2 postalars, 1+3 weak dorsocentrals; postpronotal, intra-alar and acrostichal setae absent; 1 proepisternal and 1 proepimeral setae present, both near lower margin; proepisternal without setulae at middle; anepisternum with hairs in posterior part and 1–2 long setae or setulae near posterior margin; katepisternum with 1 strong seta near upper posterior corner. Scutellum with 2 strong subapical setae, apicals as hairs.



Figs 10-17. *Parallelomma belousovi* sp. n., male paratype (10-13) and *P. kabaki* sp. n., holotype (14-15): 10, 14 – sternite 4; 11, 15 – sternite 5; 12, 16 – epandrium and surstyli, lateral view; 13, 17 – same, dorsal view.

Legs yellow, mid and hind femora each with small dorsal black spot apically. Forefemur with 1 *p* near apex and with 2 *pd* at middle. Foretibia with 1 *a/ad* (male) or 1 *pd* (female) and 1 *p* at middle and with ring of apical setae. Midfemur with row of setae anteriorly and 1 apical *p*. Midtibia with 2 *p/pd*, with 1 *a* in apical third, and with ring of apical setae. Hindfemur with 2–3 *ad* in apical half, with 1–2 *av* apically. Hindtibia with 2 *ad* and 2 *pd*, and apicals *d*, *ad* and *av*.

Wing slightly brownish; veins brown. Calypters, their margins and haltere whitish.

Abdomen black, shining, covered with black hairs, with long lateral marginal setae on tergites (1+2)–5 and long lateral setae at middle on tergite 1+2. Sternites 4 and 5 as in Figs. 10, 11. Epandrium and surstyli as in Figs. 12, 13.

MEASUREMENTS. Length of body 3.8–5.0 mm, length of wing 4.1–4.8 mm.

ETYMOLOGY. The new species is named after the collector, I.A. Belousov.

DISTRIBUTION. China: Sichuan.

***Parallelomma kabaki* Ozerov, sp. n.**

Figs 14–17

MATERIAL. Holotype – ♂, **China**: Sichuan, SW Pingchuan Town (22°39'35" N, 101°44'28" E), 3445 m, 16.VII 2011, leg. Belousov, Kabak.

DESCRIPTION. MALE. Frons from blackish in upper part to reddish in lower part, matt, subshiny black along margin of eye. Face black. Parafacial blackish. Gena and postgena yellow. Postcranium black, greyish microtrichose. Ocellar triangle black. Scapus and pedicel yellow, postpedicel black. Palpi and prementum black. 2 orbitals, 2 frontals, 1 ocellar, ?1 weak posteroventral, 1 inner vertical, and 1 outer vertical (approximately 1/2 times as long as inner vertical). Postcranium with short black setulae in upper part and yellow hairs in lower part. 1 vibrissa present. Postpedicel rounded apically, approximately 2 times as long as wide. Arista very short haired on whole length.

Thorax completely black, subshining. Scutum with 2 notopleurals (posterior weaker than anterior), 0+1 supra-alars, 2 postalars, 1+3 weak dorsocentrals; postpronotal, intra-alar and acrostichal setae absent; 1 proepisternal and 1 proepimeral setae present, both near lower margin; proepisternal without setulae at middle; anepisternum with hairs in posterior part and 1–2 long setae or setulae near posterior margin; katepisternum with 1 strong seta near upper posterior corner. Scutellum with 2 strong subapical setae, apicals as hairs.

Legs yellow, mid- and hindfemora each with dorsal black spot or ring apically, all tarsi dark brown. Forefemur with 1 *p* near apex and with 2–3 *pd* at middle. Foretibia with 1 *p* at middle and with ring of apical setae. Midfemur with row of weak setae anteriorly and 1 apical *p*. Midtibia with 1 *p* in basal half, with 1 *a* apical half, and with ring of apical setae. Hindfemur with 2–3 weak *ad*, with 1 *a* and 1 *v* apically. Hindtibia with 2 *ad* and 2 *pd*, and apicals *d*, *ad* and *av*.

Wing brownish; veins brown. Calypters, their margins and haltere whitish.

Abdomen black, shining, covered with black hairs, with long lateral marginal setae on tergites (1+2)–5 and long lateral setae at middle on tergite 1+2. Sternites 4 and 5 as in Figs. 14, 15. Epandrium and surstyli as in Figs. 16, 17.

MEASUREMENTS. Length of body 4.8 mm, length of wing 4.6 mm.

FEMALE unknown.

ETYMOLOGY. The new species is named after the collector, I.I. Kabak.

DISTRIBUTION. China: Sichuan.

### Key to species of *Parallelomma* of China

1. Katepisternum, meron and metepisternum white ..... *P. albamentum* (Séguy)  
– Katepisternum, meron and metepisternum black ..... 2
2. Pedicel white. Coxae yellow. Wing slightly darkened ..... 4  
– Pedicel black. Forecoxa blackish, mid- and hindcoxae black. Wing blackish ... 3
3. *pprn* weak. Mid- and hindfemur completely blackish. Male sternites 4 and 5 as in Figs. 1, 2. Epandrium and surstyli as in Figs. 3, 4 ..... *P. melanothorax* sp. n.  
– *pprn* very strong. Mid- and hindfemur yellow, with black ring apically. Male sternites 4 and 5 as in Figs. 5, 6. Epandrium and surstyli as in Figs. 7, 8 .....  
..... *P. chinensis* sp. n.
4. Palpus and face white. Male sternites 4 and 5 as in Figs. 10, 11. Epandrium and surstyli as in Figs. 12, 13 ..... *P. belousovi* sp. n.  
– Palpus and face black. Male sternites 4 and 5 as in Figs. 14, 15. Epandrium and surstyli as in Figs. 16, 17 ..... *P. kabaki* sp. n.

#### *Megaphthalmoides nigroantennatus* Ozerov, sp. n.

MATERIAL. Holotype – ♀, **China**: Sichuan, SW Mianning Town (28°15'19" N, 101°43'42" E), 3960 m, 09.VII 2011, leg. Belousov, Kabak. Paratype: 1 ♀, same label as holotype.

DESCRIPTION. FEMALE. Head yellow, higher than wide in profile; frons reddish, matt. 2 orbitals, 2 frontals, 1 ocellar, 1 postocellar (divergent), 1 inner vertical, 1 outer vertical, 2 postgenital setae; 2 pairs of vibrissae and several subvibrissae. Antenna black. Postpedicel rounded apically, approximately 3 times as long as wide. Arista black, short haired on whole length. Palpus filiform, yellow with blackish tip.

Thorax and scutellum brownish, subshining, scutum with 3 blackish stripes. Scutum with 2 postpronotals, 2 notopleurals, 0+1 intra-alars, 1+2 supra-alars, 2 postalars, 2+3 dorsocentrals; 1 weak acrostichal, 2 proepisternal, 3 anepisternal (near posterior margin) and 1 long katepisternal (in upper posterior corner) setae present. Proepisternum with 1–2 hairs at middle. Anepimeron with 1 setulae at middle. Scutellum with 2 pairs (apical and basal) of strong setae .

Legs yellow, but forefemur dorsally and all tarsi black, mid- and hindfemora each with dorsal black spot apically. Fore femur with row of *pd*, with 3–4 *a* and 2–3 *av* in apical third. Fore tibia with 3 *d* (including preapical), 2 *p* (including preapical), and apical *v*. Mid femur with row of *a*, 1 preapical *p* and 1 preapical *pd*. Mid tibia with 2 *pd*, 2 *ad*, 1–2 *v* and ring of apicals setae. Hind femur with row of *ad*, 3–4 *v* in apical third, and 1 preapical *a* and 1 apical *p*. Hind tibia with 3 *pd*, 3 *ad*, 1 preapical *d*, 1 apical *v* and 1 apical *av*.

Wing with a brownish tinge, without dark spots; veins brown. Costal vien with strong spinules. R 1 bare. Calypters, their margins and haltere yellow.

Abdomen with blackish tergites (1+2)–4, tergite 5 with yellowish lateral spots; sternites brownish.



MEASUREMENTS. Length of body 5.8 mm, length of wing 6.5 mm.

MALE unknown.

COMPARISON. *Megaphthalmoides nigroantennatus* sp. n. may be easily separated from the other species of the genus *Megaphthalmoides* by the completely black antenna. *M. unilineatus* as well as *M. japonicus* has yellow scapus and pedicel.

DISTRIBUTION. China: Sichuan.

#### ACKNOWLEDGEMENTS

I wish to thank Viktor Kolyada (Moscow), who provided material of Scathophagidae for the present study.

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## SHORT COMMUNICATION

**V. M. Loktionov, A. S. Lelej. NEW DISTRIBUTIONAL DATA ON THE SPIDER WASPS (HYMENOPTERA, POMPILIDAE) FROM THE RUSSIAN FAR EAST. – Far Eastern Entomologist. 2012. N 244: 10-12.**

**Summary.** Distributional data of eight species of spider wasps from Russia Far East are supplemented. Four species are newly recoded from Jewish autonomous oblast, two species – from Khabarovskii krai and Buryatia, one species – from Chukotka, Magadanskaya and Amurskaya oblast, and Primorskii krai.

**Key words:** Hymenoptera, Pompilidae, distribution, Russian Far East.

**В. М. Локтионов, А. С. Лелей. Новые данные о распространении дорожных ос (Hymenoptera, Pompilidae) на Дальнем Востоке России // Дальневосточный энтомолог. 2012. N 244. С. 10-12.**

**Резюме.** Уточнено распространение восьми видов дорожных ос на Дальнем Востоке России. Четыре вида впервые указываются для Еврейской АО, по два вида – для Хабаровского края и Бурятии, по одному виду – для Чукотки, Магаданской и Амурской областей и Приморского края.

### INTRODUCTION

Based on the material of spider wasps deposited in the collection of Institute of Biology and Soil Science (Vladivostok, Russia) new distributional data for eight species are given. New distribution data are asterisked (\*).

#### Family Pompilidae

##### *Anoplius (Anoplius) aberrans* Gussakovskij, 1932

**MATERIAL.** Khabarovskii krai: Machtovaya River, 6.VIII 2005, 1 ♀ (Lelej). Jewish autonomous oblast: Radde, 13.VII 2003, 1 ♂ (Belokobylskii). Buryatia: Baraty, Gusinoe Lake, 26.VII 2007, 3 ♂ (Lelej, Proshchalykin, Loktionov).

**DISTRIBUTION.** Russia (\*Khabarovskii krai, Amurskaya oblast, \*Jewish autonomous oblast, Primorskii krai, Sakhalin, Kuril Islands, Kamchatka, Magadanskaya oblast, \*Buryatia, Irkutskaya oblast), Japan (Hokkaido, Honshu), Republic of Korea, China (Guangdong, Taiwan), Philippine (Luzon), Indonesia (Celebes), Uzbekistan (Lelej, 2005).

**REMARK.** The status of this species is discussed in Loktionov & Lelej (2012).

##### *Anoplius (Anoplius) sachalinensis* Lelej, 1994

**MATERIAL.** Primorskii krai: Ussuriiskii Natural reserve, 11.IX 1979, 1 ♀ (Kupianskaya); Lazovskii reserve, Pravaya Sokolovka River, 28.VI 2008, 1 ♂ (Loktionov).

**DISTRIBUTION.** Russia (Amurskaya oblast, south of Khabarovskii krai, \*Primorskii krai, South Sakhalin, Kuril Islands), Japan (Hokkaido) (Lelej, 2005).

***Episyron arrogans* (Smith, 1873)**

MATERIAL. Jewish autonomous oblast: Radde, 13, 15.VII 2003, 1 ♀, 5 ♂ (Belokobylskii); 5 km N of Pashkovo, 11.VII 2003, 1 ♀ (Belokobylskii); Natural Reserve "Bastak", 1–3.VII 2004, 2 ♂ (Proshchalykin); Medvezhii Utes Mt., 17.VI 2005, 1 ♂ (Proshchalykin); 20 km NW of Amurzet, 17.VI 1985, 1 ♂ (Belokobylskii).

DISTRIBUTION. Russia (Khabarovskii krai, Amurskaya oblast, \*Jewish autonomous oblast, Primorskii krai, Kuril Islands, Irkutskaya oblast, European part of Russia), Japan (Hokkaido, Honshu, Kyushu, Tsushima, Ryukyus), Republic of Korea, China (Liaoning, Henan, Jiangsu, Zhejiang, Fujian, Taiwan), Ukraine, Belarus, Western Europe, Philippine (Lelej, 2000; Tobias, 1978).

***Auplopus (Auplopus) pygialis* (Pérez, 1905)**

MATERIAL. Jewish autonomous oblast: Natural Reserve "Bastak", 1–5.VII 2004, 6–7.VII 2005, 4 ♀ (Proshchalykin, Kuznetsov); Radde, 13.VII 2003, 1 ♂ (Belokobylskii). Buryatia: Baraty, Gusinoe Lake, 25–26.VII 2007, 2 ♀ (Lelej, Proshchalykin, Loktionov).

DISTRIBUTION. Russia (Amurskaya oblast, south of Khabarovskii krai, \*Jewish autonomous oblast, Primorskii krai, South Sakhalin, Kuril Islands, \*Buryatia, Irkutskaya oblast), Japan (from Hokkaido to Yakushima), Republic of Korea, Eastern Kazakhstan (Lelej, 2005).

***Caliadurgus ussuriensis* (Gussakovskij, 1932)**

MATERIAL. Khabarovskii krai: Komsomolsk-na-Amure, 7.VIII 1986, 1 ♀ (Mutin).

DISTRIBUTION. Russia (\*Khabarovskii krai, Amurskaya oblast, Primorskii krai, South Sakhalin, Kuril Islands), Japan (from Hokkaido to Yakushima), Republic of Korea, China (Henan, Jiangxi, Zhejiang, Taiwan) (Lelej, 2005).

***Dipogon (Deuteragenia) vechti* Day, 1979**

MATERIAL. Jewish autonomous oblast: Natural Reserve "Bastak", 1–3.VII 2004, 1 ♀ (Proshchalykin). Chukotka: Omolon River, 180 km S of Omolon, 16.VIII 1976, 1 ♀ (Marshakov).

DISTRIBUTION. Russia (Khabarovskii krai, Amurskaya oblast, \*Jewish autonomous oblast, Primorskii krai, Sakhalin, Kuril Islands, Kamchatka, Magadanskaya oblast, \*Chukotka, Irkutskaya oblast, Siberia, European part), Japan (Hokkaido, Honshu), Central Asia, Belarus, Western Europe (Lelej, 2005).

***Eopompilus internalis* (Matsumura, 1911)**

MATERIAL. Amurskaya oblast: Natal'ino, 11.VII 1975, 1 ♂ (Lelej).

DISTRIBUTION. Russia (Khabarovskii krai, \*Amurskaya oblast, Primorskii krai, Sakhalin, Kuril Islands), Japan (from Hokkaido to Tanegashima), Republic of Korea (Lelej, 2005).

***Priocnemis (Umbripennis) japonica* Gussakovskij, 1930**

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Author's addresses:

Institute of Biology and Soil Science,  
Far Eastern Branch of the  
Russian Academy of Sciences, Vladivostok, 690022, Russia  
E-mail: pompilidaefer@mail.ru, lelej@biosoil.ru

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Address: Institute of Biology and Soil Science, Far East Branch of Russian Academy of  
Sciences, 690022, Vladivostok-22, Russia.

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