

**FIRST RECORD OF THE FAMILY IBALIIDAE (HYMENOPTERA) FROM
THE KURIL ARCHIPELAGO, RUSSIA**

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Summary. Family Ibalidae, the genus *Ibalia* Latreille, 1802 and two species, *I. (Ibalia) leucospoides* (Hochenwarth, 1785) and *I. (Tremibalia) jakowlewi* Jacobson, 1899, are newly recorded from Kunashir Island (Kuril Archipelago). A key to the species of Ibalidae known from the Russian Far East is given also.

Key words: Hymenoptera, Ibalidae, fauna, new record, key, Kunashir Island, Russia.

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Резюме. Впервые с острова Кунашир (Курильские острова) указываются семейство Ibalidae, род *Ibalia* Latreille, 1802 и два вида, *I. (Ibalia) leucospoides* (Hochenwarth, 1785) и *I. (Tremibalia) jakowlewi* Jacobson, 1899. Приведена определительная таблица дальневосточных видов семейства Ibalidae.

INTRODUCTION

Ibalidae is a small parasitoid family includes 20 recent species in three genera, *Ibalia* Latreille, 1802, *Heteribalia* Sakagami, 1949 and *Eileenella* Fergusson, 1992 in the World (Liu & Nordlander, 1994; Choi *et al.*, 2013; Aguiar *et al.*, 2013). All known Ibalidae are endoparasitoids of the wood wasp larvae (Hymenoptera: Siricidae) living in conifers and hardwoods (Liu & Nordlander, 1994; Hansen, 2010; Paretas-Martinez *et al.*, 2013). Three species of Ibalidae are known from the Russian Far East, but this family has never been recorded from Kuril Archipelago (Melika, 2012). Present paper is based on material collected by author on Kunashir Island in 2013 and 2014.

NEW RECORDS

Family Ibalidae

Genus *Ibalia* Latreille, 1802

NOTES. There are three species of this genus in the fauna of the Russian Far East: world-wide *Ibalia (Ibalia) leucospoides* (Hochenwarth, 1785), Palearctic *I. (Tremibalia) jakowlewi*

Jacobson, 1899, and *I. (T.) ornata* Belizin, 1968 known from Russia (Primorskiy kray) and China (Melika, 2012).

***Ibalia (Ibalia) leucospoides leucospoides* (Hochenwarth, 1785)**

Fig. 1

Ichneumon leucospoides Hochenwarth, 1785: 345; type locality: not given in original description, but probably Berlin.

Ichneumon cultellator Fabricius, 1793: 167; type locality: "Germania".

Diplolepis ibalia De Lamarck, 1817: 163; type locality: "France meridionale".

Ibalia suprunenkoi Jacobson, 1899: 289; type locality: Russia, Sakhalin, between Douay harbor and Alexandrovsk.

Ibalia arcuata Dalla Torre & Kieffer, 1910: 23; type locality: "England, Italien, Deutschland".

Ibalia sachalinensis Matsumura, 1911: 98; type locality: Russia, "Sakhalin, Mauka".

Ibalia picea Matsumura, 1912: 163; type locality: Japan.

MATERIAL. **Russia:** South Kurile, Kunashir Island, Tretyakovo, dry fir, 21–22.VIII 2013, 2♀, leg. Yu. Sundukov and L. Sundukova.



Fig. 1. *Ibalia (Ibalia) leucospoides leucospoides*, female from Tretyakovo, Kunashir Island, lateral view.

DISTRIBUTION. Russia: Kunashir Island (new record), Sakhalin, Primorskiy kray; Japan, South Korea, China, Greece, Bulgaria, Hungary, Czech Republic, Poland, Sweden, Switzerland, Germany, Italy, Belgium, Netherlands, France, British Islands, Spain, Portugal, Turkey, Cyprus, Algeria, Tunisia, Morocco; introduced to Argentina, Australia, Tasmania, New Zealand (Liu & Nordlander, 1994; Muruaga de L'Argentier *et al.*, 2005; Ljubomirov *et al.*, 2006; Peeters, 2011; Melika, 2012; Choi *et al.*, 2013; Paretas-Martínez *et al.*, 2013).

HOSTS. Parasitoid of wood wasps of the genera *Sirex*, *Urocerus* and *Xeris* in coniferous forests (Liu & Nordlander, 1994; Choi *et al.*, 2013).



Fig. 2. *Ibalia (Tremibalia) jakowlewi*, female from Severyanka River, Kunashir Island, lateral view.

***Ibalia (Tremibalia) jakowlewi* Jacobson, 1899**

Fig. 2

Ibalia jakowlewi Jacobson, 1899: 288; type locality: “Iretj”, Balagansky district, Irkutskaya oblast, Russia.

Ibalia takachihoi Yasumatsu, 1937: 13; type locality: Mount Hikosan, Buzen, Kyushu, Japan.

MATERIAL. **Russia:** South Kurile, Kunashir Island, downstream Severyanka River, 5.VI 2014, 1♀, leg. Yu. Sundukov.

DISTRIBUTION. Russia: Kunashir Island (new record), Primorskiy kray, Irkutskaya oblast, Altai, European part; Japan, Korea, Georgia, Ukraine, Czech Republic, Slovakia, Poland, Austria, Italy, Germany, Finland (Liu & Nordlander, 1994; Martikainen & Viitasaari, 1996; Melika, 2012; Choi *et al.*, 2013; Dal Pos, 2017).

HOSTS. Parasitoid of wood wasps (Siricidae: Tremicinae) *Tremex longicollis* Konow, 1896 in Japan and *T. fuscicornis* (Fabricius, 1787) in Europe in hardwoods (Liu & Nordlander, 1994; Holý *et al.*, 2012; Choi *et al.*, 2013).

KEY TO THE RUSSIAN FAR EAST SPECIES OF THE FAMILY IBALIIDAE

1. Eye length 2.3 times length of malar space. Male antenna usually with 13 flagellomeres. Dorsal pronotal area short. Propleuron weakly projecting ventrally. Anterior lateral crest of metacoxa triangular. Parasitoids of Siricinae in coniferous trees *Ibalia (Ibalia) leucospoides*
 - Maximum length of eye more than 2.7 times length of malar space. Male antenna with 12 flagellomeres. Dorsal pronotal area large. Propleuron strongly projecting ventrally. Anterior lateral crest of metacoxa rounded. Parasitoids of Tremicinae in hardwood trees (Subgenus *Tremibalia*) 2
2. Head and pronotum entirely black. Entire gena costate. Lateral sides of pronotum mainly rugose. Fore wing with narrower dark band behind submarginal cell *Ibalia (Tremibalia) jakowlewi*
 - Head and pronotum at least partially yellow or brown. Upper part of gena smooth. Lateral sides of pronotum costate and often partially smooth. Fore wing with broad, indistinct dark area behind submarginal cell *Ibalia (Tremibalia) ornata*

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