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ADDITIONAL DATA TO THE SUBFAMILY OPIINAE (HYMENOPTERA, BRACONIDAE) FROM THE RUSSIAN FAR EAST

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The species described by M. Fischer (1998, 1999, 2001) in the genera *Opius* (*O. alekhinoensis*, *O. disprens*, *O. extremorientis*, *O. interpunctatus*, *O. mishiformis*, *O. partisanskiensis*, *O. protractiterebra*, *O. rugipropodealis*, *O. transbaikalicus*, *O. uttoisimilis*), *Aulonotus* (*A. kotenkoï*) and *Biosteres* (*B. kurilicus*, *B. rectinotaulis*) from the Russian Far East after the publication of Opiinae section in the "Key to the species of Russian Far East" (Tobias, 1998) are compared with related species in the keys of genera *Opius* and *Biosteres*. Diagnostic differences of these species are given. New synonymy is proposed: *Aulonotus kunashiricus* Fischer, 1998 (July 31) = *Opius subholconotus* Tobias, 1998 (Dec. 5), **syn. n.** New distribution data are given for some species.

KEY WORDS: Russian Far East, Braconidae, Opiinae, taxonomy, new records.

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Для видов, описанных М. Фишером (Fischer, 1998, 1999, 2001) в родах *Opius* (*O. alekhinoensis*, *O. disprens*, *O. extremorientis*, *O. interpunctatus*, *O. mishiformis*, *O. partisanskiensis*, *O. protractiterebra*, *O. rugipropodealis*, *O. transbaikalicus*,

O. uttoisimilis), *Aulonotus* (*A. kotenkoi*) и *Biosteres* (*B. kurilicus*, *B. rectinotaulis*) с Дальнего Востока России после опубликования раздела по подсем. Опиінае в "Определителе насекомых Дальнего Востока России" (Тобиас, 1998), указаны соответствующие места в определительных таблицах видов родов *Opius* и *Biosteres*. Даются диагностические отличия этих видов от ранее включенных. Предложена новая синонимия: *Aulonotus kunashiricus* Fischer, 1998 (31 июля) = *Opius subholconotus* Tobias, 1998 (5 декабря), **syn. n.** Приведены новые сведения о распространении ряда видов.

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INTRODUCTION

Opiinae section in the "Keys to the insects of Russian Far East" has been published recently (Tobias, 1998). The status of some *Opius* subgenera already changed to generic level and new combinations for many Far Eastern species were proposed (Tobias, 2000). At the same time or later three valuable M. Fischer's papers (Fischer, 1998, 1999, 2001) have been published, where fourteen new Opiinae species from the Russian Far East are described. The type material of these species has been collected mostly by Dr. A. Kotenko and deposited in the Institute of Zoology (Kiev, Ukraine). In this paper the positions of Fischer's species described in the genera *Opius* Wesmael, 1859, *Aulonotus* Ashmead, 1900 and *Biosteres* Förster, 1862 among the keyed ones are clarified. New distribution data mainly for the species from Kuril Islands are given and asterisked (*).

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TAXONOMY

***Opius alekhinoensis* Fischer, 1999**

Opius alekhinoensis Fischer, 1999: 285, ♀ [holotype – ♀, Kunashir I., Alekhino, vista of forest, high herbs, 11.VIII 1988 (A. Kotenko), examined].

Addition to the *Opius* key (Tobias, 1998: 634)

254. Body black; head around eye, clypeus and mouth parts yellowish brown. Notauli completely undeveloped. Recurrent vein interstitial. Clypeus sickleform, punctulate along external margin, 4x as wide as high. Hind femur 4.5x as long as wide. Ovipositor bent upwards, a little longer than metasoma. Transversal eye diameter 1.5x as long as temple dorsally. Propodeum smooth, rugulose medially. Apical segment of hind tarsus as long as second one. 1.5 mm. – Kuril Is. (Kunashir). ***O. alekhinoensis* Fi.**

- Body brownish, with abundant brownish yellow spots. Anterior part of notauli developed. Recurrent vein postfurcal. Clypeus semioval, almost smooth, 3x as wide as high. Hind femur 3.5x as long as wide. Ovipositor straight, as long as metasoma. Transversal eye diameter 2x as long as temple dorsally. Propodeum densely granulate. Apical segment of hind tarsus as long as third one. 2.1-2.3 mm. – Primorskii kraï ***O. superlatus*** Tobias

***Opius disprens* Fischer, 1999**

Opius disprens Fischer, 1999: 287, ♀ [holotype – ♀, Amur River, Nikolaevsk, 28.VIII 1917 (V. Wuorentaus) (deposited in Zoological Museum of Helsinki University), examined].

Addition to the *Opius* key (Tobias, 1998: 621)

200. Mandible with basal tooth ventrally. First flagellar segment of antenna 3x, subapical segments 2.5x as long as wide. Propodeum with longitudinal carina medially, sculptured near carina. Mesopleuron granulate. 2.3 mm. – Korea ***O. metatus*** Papp
- Mandible without basal tooth ventrally. First flagellar segment of antenna 2x, middle segments 1.3x as long as wide, subapical segments subsquare. Propodeum with faint longitudinal carina medially, anteriorly smooth. Mesopleuron smooth. 1.8 mm. – Khabarovskii kraï ***O. tametus*** Tobias
 - Mandible without basal tooth ventrally. First flagellar segment of antenna 2x, middle segments 1.5-1.7x as long as wide. Propodeum without longitudinal carina medially, granulate. Mesopleuron smooth. 2.3 mm. – Khabarovskii kraï ***O. disprens*** Fi.

***Opius extremorientis* Fischer, 1999**

Opius extremorientis Fischer, 1999: 388, ♀ [holotype – ♀, Primorskii kraï, Khankaïskii raion, near Novokachalinsk, forest, 3.IX 1986 (A. Kotenko), examined].

MATERIAL. Primorskii kraï: 1 ♀, Barabash-Levada, meadow, fringes of forest, 25.VI 1978; 1 ♀, Anisimovka, forest, 11.VII 1984 (S. Belokobylskij).

Addition to the *Opius* key (Tobias, 1998: 592)

105. Second abscissa of radial vein 1.3-1.5x as long as first radiomedial vein. Radial cell not reach apical part of fore wing. Head black, clypeus, malar space and mouth parts brownish yellow; mesosoma and metasoma brownish yellow or mesosoma with abundant dark spots (beside pronotum and upper part of mesopleuron). 1.5 mm. – Primorskii kraï ***O. lusorius*** Tobias
- Second abscissa of radial vein 2x or almost 2x as long as first radiomedial vein. Radial cell reach apical part of fore wing. Head and mesosoma black or head frontally and mesosoma laterally with brownish yellow spots. 1.5 mm. – Primorskii kraï ***O. extremorientis*** Fi.

***Opius interpunctatus* Fischer, 1999**

Opius interpunctatus Fischer, 1999: 291, ♀ [holotype – ♀, Sakhalin I., Novoalexandrovsk, broad-leaved forest, 29.VII 1988 (A. Kotenko)].

Addition to the *Opius* key (Tobias, 1998: 597)

124. Head with brownish yellow spots. Antenna with 24-26 segments; first flagellar segment 3-4x, penultimate – 1.5x as long as wide. Mesosoma weakly longer than height. Second abscissa of radial cell 2x as long as first radiomedial vein. 1.7 mm. – Primorskii krai. – Korea ***O. damnosus*** Papp
- Head black. Antenna with 21 segments; first flagellar segment 2x as long as wide, penultimate segment weakly longer than width. Mesosoma 1.3x as long as high. Second abscissa of radial vein 1.7-1.8x as long as first radiomedial vein. 2.1 mm. – Sakhalin ***O. interpunctatus*** Fi.

***Opius mishiformis* Fischer, 1999**

Opius mishiformis Fischer, 1999: 293, ♀ [holotype – ♀, Kunashir I., 3 km N of Lagunnoe Lake, meadow, fringe of forest, 9.VIII 1988 (A. Kotenko), examined].

Addition to the *Opius* key (Tobias, 1998: 596)

119. First flagellar segment of antenna 4x, middle segments – 2-2.5x, subapical segments 1.5-2x as long as wide. Second abscissa of radial vein 2x as long as first radiomedial vein. Body black. 1.8-2.0 mm. – Irkutskaya oblast'. – Armenia, Western Europe ***O. pulicariae*** Fi.
- First flagellar segment of antenna 2.5x, middle segments – 1.3x, subapical segments a little longer than width. Second abscissa of radial vein 1.8x as long as first radiomedial vein. Body black; head, except dark upper part, and second metasomal tergite yellowish brown. 2.0 mm. – Primorskii krai
. ***O. subpulicariae*** Tobias
- First flagellar segment of antenna 4x, middle and subapical segments 2x as long as wide. Body black; head frontally and second metasomal tergite brownish yellow. 1.6 mm. – Kuril Is. (Kunashir) ***O. mishiformis*** Fi.

***Opius partisanskiensis* Fischer, 1999**

Opius partisanskiensis Fischer, 1999: 296, ♀ [holotype – ♀, Primorskii krai, Partisansk, fringe of forest, 14.VIII 1988 (A. Kotenko), examined].

Addition to the *Opius* key (Tobias, 1998: 578)

47. Head brownish yellow, mesosoma black. Clypeus 3-4x as wide as high. Radial cell not reach apical part of fore wing. Mesonotum glabrous. Ovipositor short. First metasomal tergite irregularly rugulose, as long as wide apically. 3.4-4.0 mm. – Primorskii krai. – Korea, all Europe ***O. ruficeps*** Wesm.
- Head and mesosoma black. Clypeus 2.5x as wide as high. Radial cell reach apical part of fore wing. Mesonotum with short numerous hairs. Ovipositor as

- long as half of metasoma. First metasomal tergite longitudinally rugulose-striate, 1.3x as long as wide apically. 3.7 mm. – Primorskii krai *O. partisanskiensis* Fi.
- Head and mesosoma black, but mesonotum reddish brown. Clypeus 4x as wide as high. Radial cell not reach apical part of fore wing. Mesonotum almost glabrous. Ovipositor short. First metasomal tergite irregularly rugulose, as long as wide apically. 3.8–4.2 mm. – Primorskii krai; European part of Russia. – North and Middle Europe *O. fulvicollis* Thoms.

***Opius protractiterebra* Fischer, 2001**

Opius protractiterebra Fischer, 2001: 14, ♀ [holotype – ♀, Kunashir I., Alekhino, field near fringe of forest, 14.VIII 1988 (A. Kotenko), examined].

MATERIAL. 1 ♀, Sakhalin I., 8 km SW of Shebunino, meadow, 11.VIII 1978 (Belokobylskij); 1 ♀, 1 ♂, Kuril Is., Iturup I., 5 km N Reidovo, 18.VIII 1996 (A. Lelej).

Addition to the *Opius* key (Tobias, 1998: 597)

127. Radial cell reach apical part of fore wing. Ovipositor as long as half of metasoma. Antenna with 21-27 segments, 1.3x as long as body length. 1.5-1.6 mm. – Primorskii krai; European part of Russia, south Ural. – Western Europe *O. similoides* Fi.
- Radial cell not reach apical part of fore wing. Ovipositor 0.7x as long as metasoma. Antenna with 22-23 segments, as long as body length. 2.0 mm. – *Sakhalin, Kuril Is. (Kunashir, *Iturup) *O. protractiterebra* Fi.

***Opius rugipropodealis* Fischer, 2001**

Opius rugipropodealis Fischer, 2001: 15, ♀ [holotype – ♀, Kunashir I., Ozernaya River, volcano Golovnina, 20.VIII 1988 (A. Kotenko), examined].

Addition to the *Opius* key (Tobias, 1998: 616)

181. Pterostigma wedgeform, radial vein arise from its basal third. Propodeum densely rugulose-punctate. Ovipositor 0.5-0.7x as long as metasoma. Second and third metasomal tergites granulate. Head and metasoma medially brownish yellow. 1.8-2.7 mm. – Primorskii krai. – Korea, Japan *O. discreparius* Fi.
- Pterostigma triangular, radial vein arise from its middle part. Propodeum irregularly rugose. Ovipositor short. Second and third metasomal tergites smooth. Body black. 4.6 mm. – Kuril Is. (Kunashir) *O. rugipropodealis* Fi.

***Opius transbaikalicus* Fischer, 1999**

Opius transbaikalicus Fischer, 1999: 303, ♂ [holotype – ♂, Chitinskaya oblast', Ononskii raion, 20 km SW of Tsasuchey, Butevken, 13.VII 1990 (A. Kotenko), examined].

Addition to the *Opius* key of the Russian Far East (Tobias, 1998: 592, 623)

101. Mandible with basal tooth ventrally. Antenna with 26 segments. Mesoscutum with medioposterior pit. Mouth parts, tegulae, legs and metasoma brownish yellow. 1.7 mm. – Korea ***O. hospitus*** Papp
- Mandible without basal tooth ventrally. Antenna with 45 segments. Mesoscutum without pit, but with fine longitudinal medioposterior furrow. Body black, mandible medially and legs brownish yellow. 3.5 mm. (See couplet 211 also). ***O. transbaikalicus*** Fi.
211. Radial cell not reach apical part of fore wing. Antenna with 18-31 segments, 1.3x as long as body length; middle segments 2x as long as wide. Propodeum densely sculptured or almost smooth. Legs more or less darkened. Mesoscutum without longitudinal medioposterior furrow. Ovipositor short. 1.1-2.1 mm. – Primorskii krai. – Mongolia, Europe ***O. lugens*** Hal.
- Radial cell reach apical part of fore wing. Antenna with 45 segments, 1.5x as long as body length; middle segments 1.5x as long as wide. Propodeum smooth. Legs brownish yellow. Mesoscutum with fine longitudinal medioposterior furrow. (Male). 3.5 mm. – Chitinskaya oblast'. (See couplet 101 also) ***O. transbaikalicus*** Fi.

***Opius uttoisimilis* Fischer, 1999**

Opius uttoisimilis Fischer, 1999: 304, ♀ [holotype – ♀, Kunashir I., Alekhino, fringes, glades, 14.VIII 1988 (A. Kotenko), examined].

MATERIAL. Sakhalin: 10 ♀, 12 km W of Aniva, mixed forest, 12.VII 1981; 9 ♀, 2 ♂, Novoalexandrovsk, 13–14.VII 1981 (Belokobylskij).

Addition to the *Opius* key (Tobias, 1998: 592)

102. First metasomal tergite as long as wide apically. Mandible without basal tooth ventrally. Antenna with 24-27 segments; first flagellar segment 3x as long as wide. Body black, head and sometimes mesosoma dorsally and metasoma apically dark brown. 1.2-1.3 mm. – Primorskii krai, Kuril Is. (Kunashir). ***O. vitellinus*** Tobias
- First metasomal tergite 1.3-1.5x as long as wide apically. Mandible more or less excavate ventrally, but without basal tooth. Antenna with 24-27 segments; first flagellar segment 3-4x as long as wide apically. Body black, lower part of head usually more and less yellowish. 1.7 mm. – *Sakhalin, Kuril Is. (Kunashir) ***O. uttoisimilis*** Fi.
- First metasomal tergite as long as wide apically. Mandible with more and less developed basal tooth ventrally. Antenna with 21-22 segments; first flagellar segment 3-4x as long as wide apically. Body black or dark brown, sometimes basal part of metasoma yellowish. 1.2-1.9 mm. – Primorskii krai. – Korea, Mongolia, Kazakhstan, Caucasus, all Europe, North Africa . . . ***O. gracilis*** Fi.

***Aulonotus kotenkoi* Fischer, 1998**

Aulonotus kotenkoi Fischer, 1998: 30, ♀ [holotype – ♀, Kunashir I., Tyatino, fringes, glades, 6.VIII 1988 (A. Kotenko), examined].

MATERIAL. Japan: 2 ♀, Nogoshi, Fukuoka-shi, 28.VIII 1992 (V. Makarkin).

REMARKS. According to original diagnosis (Fischer, 1998) *A. kotenkoi* differs from *A. aciculatus* by short first metasomal tergite and by faintly sculptured face. But face sculpture of these species is very variable and useless as diagnostic character. One from two females of *A. kotenkoi* from Japan has longer first tergite of metasoma (1.5x as long as wide apically).

Addition to the Opiinae key (Tobias, 1998: 574)

- 34. First metasomal tergite 1.5-2x as long as wide apically. 2.6-2.7 mm. – Primorskii krai; European part of Russia. – Western Europa *A. aciculatus* Thoms.
- First metasomal tergite usually 1.3x as long as wide apically. 2.5 mm. – Kuril Is. (Kunashir). – *Japan (Honshu) *A. kotenkoi* Fi.

***Aulonotus kunashiricus* Fischer, 1998**

Aulonotus kunashiricus Fischer, 1998 (July 31): 32, ♀ [holotype – ♀, Kunashir I., Yuzhno-Kurilsk, Serebryanoe Lake, fringes, 8.VIII 1988 (A. Kotenko), examined]; Tobias, 2000: 13.

Opius (Aulonotus) subholconotus Tobias, 1998 (December 5): 578, ♀ [holotype – ♀, Primorskii krai, Kedrovaya pad' reserve, oak forest, 22.VIII 1979 (S. Belokobylskij), examined], **syn. n.**

MATERIAL. 1 ♂, Kunashir I., Stolbchatyi Cape, 10.VIII 1989 (A. Lelej).

DISTRIBUTION. Russia: Primorskii krai (Tobias, 1998), Kuril Is. (Kunashir).

REMARKS. According to original description (Fischer, 1998) *A. kunashiricus* has the sculptured mesopleuron ("Mesopleurum stark maschenartig skulptiert"). But mesopleuron of holotype of *A. kunashiricus* is smooth, as one of *Opius (Aulonotus) subholconotus* Tobias. Other characters of the holotypes of *A. kunashiricus* and *A. subholconotus* are the same.

***Biosteres kurilicus* Fischer, 1998**

Biosteres kurilicus Fischer, 1998: 38, ♀ [holotype – ♀, Kunashir I., Yuzhno-Kurilsk, Serebryanoe Lake, fringes, 8.VIII 1988 (A. Kotenko), examined].

Addition to the *Biosteres* key (Tobias, 1998: 646)

- 27. Head behind eye distinctly widened; temple 1.5x as long as transverse diameter of eye (dorsal view). Longitudinal diameter of eye 2x as long as malar space. Body black, head dark brown, antenna yellowish brown. (Male). 4.3 mm. – Kuril Is. (Kunashir) *B. flavoflagellaris* Tobias
- Head behind eye weakly widened, temple 1.3x as long as transverse diameter of eye dorsally. Longitudinal diameter of eye 2.5x as long as malar space. Body, head and antenna black. Ovipositor short. 5.5 mm. – Kuril Is. (Kunashir) *B. kurilicus* Fi.

***Biosteres rectinotaulis* Fischer, 1998**

Biosteres rectinotaulis Fischer, 1998: 39, ♂ [holotype – ♂, Kunashir I., volcano Golovnina, Ozernaya River, forest, 20.VIII 1988 (A. Kotenko), examined].

Addition to the *Biosteres* key (Tobias, 1998: 641)

6. Second metasomal tergite longitudinally striate. Radial cell not reach apical part of wing; second abscissa of radial vein as long as first radiomedial vein, third abscissa 3x as long as second one. Sternaulus long and narrow, reach anterior margin of mesopleuron. Body black; head yellow, vertex with big black spot; upper part of pronotum yellow. Ovipositor as long as metasoma. 4.0 mm. – Primorskii krai ***B. subalternatae*** Tobias
- Second metasomal tergite smooth. Radial cell reach apical part of fore wing; second abscissa of radial vein shorter than first radiomedial vein; third abscissa 4x as long as second one. Sternaulus short and wide, not reach anterior margin of mesopleuron. Body black; mouth part yellowish. (Male). 5 mm. – Kuril Is. (Kunashir) ***B. rectinotaulis*** Fi.

NEW DISTRIBUTION DATA

***Biosteres carbonarius* Nees, 1834**

MATERIAL. 1 ♀, Shikotan I., Malokurilskoe, forest, 11.VII 1965 (V. Ermolenko).

DISTRIBUTION. Russia: Primorskii krai, Sakhalin, *Kuril Is. (Shikotan), Chitinskaia oblast'. – Korea, Japan, all Europe, North America (Tobias, 1998).

***Opius analis* Wesmael, 1835**

MATERIAL. 1 ♀, Kunashir I., Dubovoe, 29–30.VII 1989 (A. Lelej).

DISTRIBUTION. Russia: Primorskii krai, *Kuril Is. (Kunashir). – Belgium (Tobias, 1998).

***Opius campanariae* Fischer, 1959**

MATERIAL. 1 ♂, Paramushir I., 4 km SE Severo-Kurilsk, 1.VIII 1996 (A. Lelej).

DISTRIBUTION. Russia: Chukotka, Kamchatka, Kuril Is. (*Paramushir, Matua), South Ural. – Mongolia, Kazakhstan, Caucasus, Crimea, Central Europe (Tobias, 1998).

***Opius opertus* Tobias, 1998**

MATERIAL. 1 ♀, Kunashir I., Stolbchatyi Cape, 10.VIII 1989 (A. Lelej).

DISTRIBUTION. Primorskii krai (Tobias, 1998), *Kuril Is. (Kunashir).

***Opius parvungula* Thomson, 1895**

MATERIAL. 1 ♀, Kunashir I., mixed forest, 30.VII 1981 (S. Belokobylskij).

DISTRIBUTION. Primorskii krai, *Kuril Is. (Kunashir), Chitinskaya oblast'. – Korea, Western Europe (Tobias, 1998).

***Opius piceus* Thomson, 1895**

MATERIAL. 1 ♀, Simushir I., Browtona Bay, 8.VIII 1999 (A. Lelej, S. Storozhenko).

DISTRIBUTION. Russia: Sakhalin, Kuril Is. (Ekarma, Shiashkotan, Raikoke, *Simushir). – Korea, Europe, North America (Tobias, 1998).

***Opius propodealis* Fischer, 1958**

MATERIAL. 1 ♂, Kunashir I., Alekhino, mixed forest, 31.VII 1981 (S. Belokobylskij).

DISTRIBUTION. Russia: Primorskii krai, *Kuril Is. (Kunashir), Chitinskaia oblast', Siberia, European Part. – Korea, Western Europe (Tobias, 1998).

***Opius staryi* Fischer, 1958**

MATERIAL. 1 ♂, Kunashir I., volcano Golovnina, glades, 28.VII 1981 (S. Belokobylskij).

DISTRIBUTION. Kamchatka, Primorskii krai, Kuril Is. (Kunashir), Chitinskaia oblast'. – Korea, Western Europe.

***Opius variegatus* Szepligeti, 1896**

MATERIAL. 1 ♀, Kunashir I., Dubovoe, 29–30.VII 1989 (A. Lelej).

DISTRIBUTION. Russia: Khabarovskii krai, Primorskii krai, *Kuril Is. (Kunashir), Buryatia, South Ural, European Part. – Mongolia, Kazakhstan, Western Europe (Tobias, 1998).

***Psytalia sakhalinica* (Tobias, 1998)**

MATERIAL. 1 ♀, Kunashir I., Yuzhno-Kurilsk, Lesnaya River, 19.VIII 1989 (A. Lelej).

DISTRIBUTION. Sakhalin (Tobias, 1998), *Kuril Is. (Kunashir).

***Utetes mediosulcatus* (Tobias, 1998)**

MATERIAL. Kunashir I., Stolbchatyi Cape, 10.VIII 1998 (A. Lelej).

DISTRIBUTION. Primorskii krai (Tobias, 1998), *Kuril Is. (Kunashir).

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