

## **Ground beetles (Coleoptera: Carabidae) of the Russian Far East: Additions and corrections to the Catalogue of Palaearctic Coleoptera, Volume 1 (2017)**

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**ABSTRACT:** An analysis of all available information on the ground beetles of the Russian Far East published in the 2<sup>nd</sup> edition of the first volume of the Catalogue of Palaearctic Coleoptera is presented. A total of 155 Far Eastern taxa of Carabidae is included, for which 178 changes are given: 108 of them concern distribution data, while 70 require taxonomic corrections. Another 8 omitted Far Eastern taxa are added to the catalogue; 31 and 19 taxa are included in or excluded from the fauna of the Far East, respectively; the distribution information is either restricted or expanded for 46 taxa. The total number of species-rank taxa in the fauna of the Far East is increased from 761 to 781.

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**KEY WORDS:** Taxonomic list; omitted taxa; distribution; added taxa; excluded taxa; taxonomic refinements; regional biodiversity.

## **Жужелицы (Coleoptera: Carabidae) Дальнего Востока России: Дополнения и исправления к Catalogue of Palaearctic Coleoptera, Volume 1 (2017)**

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**РЕЗЮМЕ:** Проанализирована вся доступная информация о жужелицах Дальнего Востока России, приведённых во 2-м издании первого тома Catalogue of Palaearctic Coleoptera. Для 155 дальневосточных таксонов Carabidae дано 178 изменений: 108 из них касаются данных о распределении, а 70 — таксономические исправления. В каталог добавлены еще 8 пропущенных дальневосточных таксонов; 31 таксон включен, а 19 таксонов — исключены из фауны Дальнего Востока, соответственно; инфор-

мация о распространении либо ограничена, либо расширена для 46 таксонов. Общее количество видовых таксонов в фауне Дальнего Востока увеличено с 761 до 781. Как цитировать эту статью: Sundukov Yu.N., Makarov K.V. 2019. Ground beetles (Coleoptera: Carabidae) of the Russian Far East: Additions and corrections to the Catalogue of Palaearctic Coleoptera, Volume 1 (2017) // *Invert. Zool.* Vol.16. No.3. P.283–304. doi: 10.15298/invertzool.16.3.07

**КЛЮЧЕВЫЕ СЛОВА:** таксономический список; пропущенные таксоны; распространение; добавленные таксоны; исключённые таксоны; таксономические уточнения; региональное биоразнообразие.

## Introduction

In the autumn of 2017, the second edition of the first volume of the Catalogue of Palaearctic Coleoptera was published (Löbl, Löbl, 2017). It contains 689 species and 72 subspecies of the family Carabidae from Russian Far East. An analysis of the list presented in the catalogue allows for some clarifications to be made concerning the distribution and taxonomy, as well as certain information about the taxa omitted from the catalogue to be added.

## Methods

In the Catalogue of Palaearctic Coleoptera, the Russian Far East is one of three subdivisions of the Asian part of Russia, being referred to as “FE” (Löbl, Löbl, 2017). When correcting or refining the data on the distribution of ground beetles, we used that very territorial division of Russia (Fig.).

In the course of the study, we used only published data on the distribution of ground beetles in the Far East of Russia, supported by material from the collections of the Federal Scientific Center of East Asia Terrestrial Biodiversity (Vladivostok), the Federal Pedagogical University (Moscow), and the Zoological Institute of the Russian Academy of Sciences (St. Petersburg).

To verify the taxonomic information, primary literature sources containing the descriptions of the relevant ground beetles taxa were consulted. All taxa included in the present paper are listed with reference to the pages they were published on in the catalogue.

In order not to increase the list of references, only sources used by us are included in this work, references to which being given in parentheses, ().

## Results

A total of 155 Far Eastern taxa is included in this paper, for which 178 changes are given: 108 of them concern distributions, while 70 are with corrected taxonomic information.

Distributional clarifications contain information on 31 taxa included in the fauna of the Russian Far East, 19 are excluded from the fauna, as well as 9 and 38 taxa for which the distributions within and beyond the territory of the Far East are refined, respectively.

Taxonomic information contains the following data:

- 6 omitted taxa added to the catalogue;
- subspecies added to 3 monotypic species;
- 1 subspecies given as a synonym;
- 3 taxa transferred to another genus;
- the type species corrected for 1 subgenus;
- the original generic combination corrected for 12 taxa;
- literature sources of original descriptions corrected for 9 taxa;
- description pages corrected for 29 taxa;
- misprints corrected for 4 taxa.

In addition, the list includes 21 Far Eastern taxa for which the description pages are unclear, as well as 21 taxa from other regions of Asia, in which misprints or other inconsistencies are noted.



Fig. A schematic map of the Russian Far East (after Löbl, Löbl, 2017), with a detailed regionalization: 1 — Primorsky Krai; 2 — Jewish Autonomous Region; 3 — Amurskaya oblast'; 4 — Khabarovsk Krai; 5 — Sakhalin Island; 6 — Kurile Islands; 7 — Magadanskaya oblast'; 8 — Kamchatka; 9 — Chukotka.

Рис. Схематическая карта Дальнего Востока России (по Löbl, Löbl, 2017), с обозначениями регионов: 1 — Приморский край; 2 — Еврейская автономная область; 3 — Амурская область; 4 — Хабаровский край; 5 — о. Сахалин; 6 — Курильские острова; 7 — Магаданская область; 8 — Камчатка; 9 — Чукотка.

### Corrections and addition to the Far Eastern taxa of Carabidae

p. 43: *Nebria (Boreonebria) gyllenhali gyllenhali* (Schönherr, 1806), synonym *attenuata* Motschulsky, 1844: 127; change page to: 1844:

128. Page 127 contains the beginning of the paragraph concerning to the section on *Nebria brevicollis*. It tells that there is a specimen from Kamchatka in the Motschulsky collection which is similar to *brevicollis* ... However, the name *attenuata* and its morphological characteristics are given only on page 128 (Motschulsky, 1844).

p. 44: *Nebria (Boreonebria) nivalis nivalis* (Paykull, 1790), synonym *obscuripes* Poppius, 1906a: 19; change page to: 1906a: 21 (Poppius, 1906).

p. 45: *Nebria (Catonebria) catenulata* Fischer von Waldheim, 1820: 6; change page to: 1820: pl. vi (Fischer von Waldheim, 1820).

p. 51: *Nebria (Nebria) brevicollis* (Fabricius, 1792); delete FE. Not recorded from the Far East of Russia. Confirmed by material, the eastern range limit of which does not reach the Urals.

p. 56: *Nebria (Paranebria) livida angulata* Bänninger, 1949; add JA. The catalogue erroneously states that the nominative subspecies *N. livida livida* (Linnaeus, 1758) occurs in Japan, whereas only the subspecies *angulata* is found to inhabit East Asia (Shilenkov, 1975).

p. 61: *Notiophilus fasciatus* Mäklin, 1855; add JA. Location: Hokkaido: Shirataki (Barševskis, 2007; Suzuki, 2018).

p. 67: *Calosoma (Calosoma) lugens* Chaudoir, 1869f: 377; change page to: 1869f: 372 (Chaudoir, 1869).

p. 68: *Calosoma (Calosoma) maximoviczi* A. Morawitz, 1863: 20 (*Calosoma*); correct the name to *maximowiczi*, and change the genus from *Calosoma* to *Carabus*. Described as *Carabus (Calosoma) Maximowiczi* (Morawitz, 1863).

p. 70: *Carabus (Acoptolabrus) constricticollis constricticollis* Kraatz, 1886, synonym *latioricollis* Mandl, 1954b: 397 (*Carabus*); change the genus from *Carabus* to *Acoptolabrus* (Mandl, 1954).

p. 72: *Carabus (Acoptolabrus) schrenckii schrenckii* Motschulsky, 1860c: 99 (*Carabus*); change the genus from *Carabus* to *Coptolabrus*. Described as *Coptolabrus Schrenckii* Ménér. (Motschulsky, 1860).

p. 91: *Carabus (Aulonocarabus) canaliculatus canaliculatus* M.F. Adams, 1812; delete NC. The nominative subspecies *C. canaliculatus* does not occur in the Korean Peninsula, being separable by the subspecies *careniger* Chaudoir, 1863, *dacatrai* Deuve, 1991, *deniskeithi* A. Müller, 2002, *hailinenesis* Deuve et Li, 2000, *jankowskiellus* Deuve, 1991, *rufinus* Beheim et Breuning, 1943, *sichotensis* Born, 1914 and *victorianus* Obydov, 1997 (Březina et al., 2017).

p. 91: *Carabus (Aulonocarabus) canaliculatus diamesus* Semenov et Znojko, 1932; add FE (Lower Amur Region). Type locality: “vic. Rykovsko, in valle fluvii Tym riv. Botshi in jugo Sichota-alin” (= Kirovskoe on Tym River, northern Sakhalin, and Botchi River, northeastern Sikhote-Alin) (Semenov, Znojko, 1932: 218); Khabarovsk Krai: Lake Udył’ and Lake Chlya (Sundukov, 2013).

p. 91: *Carabus (Aulonocarabus) canaliculatus pseudocareniger* Deuve, 1991; add FE. Locations: West and south-west of Primorsky Krai (Sundukov, 2013).

p. 92: *Carabus (Aulonocarabus) truncaticollis truncaticollis* Eschscholtz, 1833; add ES. See: *C. (Eucarabus) lenaensis* Mandl, 1955 (= *C. truncaticollis truncaticollis* Eschscholtz, 1833); type locality: “fl. Lena”, Lena River, Yakutia (Mandl, 1955).

p. 95: *Carabus (Carabus) arvensis faldermanni* Dejean, 1830, synonym *bellus* Kraatz, 1886c: 266; change page to: 1886c: 265. Both the description of diagnostic features and var. *bellus* Kraatz are presented on page 265; page 266 contains a key to variations (var.) of *C. conciliator* Fischer von Waldheim, 1820 (Kraatz, 1886).

p. 95: *Carabus (Carabus) arvensis faldermanni* Dejean, 1830, synonym *nigerrimus* Kraatz, 1886c: 266; change page to: 1886c: 265. Both the description of diagnostic features and var. *nigerrimus* Kraatz are presented on

page 265; page 266 contains a key to variations (var.) of *C. conciliator* Fischer von Waldheim, 1820 (Kraatz, 1886).

p. 98: *Carabus (Carabus) granulatus yezoensis* Bates, 1883; add FE (Kurile Islands). Locations: Iturup, Kunashir and Shikotan islands (Kuwayama, 1967; Krivolutskaja, 1973; Kryzhanovskij *et al.*, 1975; Mordkovich, 2003; Lafer, 2006; Sundukov, Makarov, 2013).

p. 104: *Carabus (Chaetomelas) morawitzi koltzei* Roeschke, 1907a: 231 (*Carabus*); change to: *Cychrus (Cychrus) morawitzi koltzei* Roeschke, 1907a: 231 (*Cychrus*) (Roeschke, 1907). The remaining taxa listed on this page as “*Carabus (Chaetomelas) morawitzi...*” should also be assigned to the genus *Cychrus*.

p. 104: *Carabus (Chaetomelas) morawitzi morawitzi* Géhin, 1885: 75 (*Carabus*); change to: *Cychrus (Cychrus) morawitzi morawitzi* Géhin, 1885: 75 (*Cychrus*) (Géhin, 1885).

p. 114: *Carabus (Damaster) blaptoides simuschirensis* Obydov, 2008: 25; a junior synonym of *Carabus (Damaster) blaptoides rugipennis* (Motschulsky, 1861) (Makarov, Sundukov, 2016: 48).

p. 122: *Carabus (Hemicarabus) macleayi macleayi* Dejean, 1826, synonym *coreensis* Breuning, 1933b: 856; change page to: 1933b: 857 (Breuning, 1933).

p. 123: *Carabus (Homoeocarabus) maeander maeander* Fischer von Waldheim, 1820: 10; change page to: 1820: pl. x (Fischer von Waldheim, 1820).

p. 124: *Carabus (Homoeocarabus) maeander paludis* Géhin, 1885; add FE (Kamchatka). Type locality: “Sibirie”, Kamtschatka (Breuning, 1932: 103).

p. 142: *Carabus (Megodontus) vietinghoffii fulgidus* Fischer von Waldheim, 1828; add ES. Type locality: “Dahuria”, Zabaykalsky Krai

(Fischer von Waldheim, 1828: 229); lectotype in the Zoological Museum of Moscow University (Obydov, 1999).

p. 197: *Carabus (Tomocarabus) fraterculus fraterculus* Reitter, 1895; delete ES. In Russia, it occurs only in the extreme southwest of Primorsky Krai (FE).

p. 199: *Carabus (Trachycarabus) latreillei latreillei* Fischer von Waldheim, 1820: 4; change page to: 1820: pl. iv (Fischer von Waldheim, 1820).

p. 250: genus *Diacheila* Motschulsky, 1844: 13; change page to: 1844: 74 (Motschulsky, 1844).

p. 251: *Diacheila polita* Faldermann, 1835b: 360 (*Blethisa*); correct: *polita* Faldermann, 1835b: 360 [Faldermann, 1835a: 3, 23]. Described in two editions of the same work (Faldermann, 1835a, b).

p. 252: *Elaphrus (Neoelaphrus) uliginosus* Fabricius, 1792; delete FE. No published data from the Far East of Russia.

p. 256: *Clivina (Clivina) westwoodi* Putzeys, 1867; add FE. Location: southern Sikhote-Alin (Lafer, 1996; Sundukov, 2009a, 2013).

p. 263: *Dyschirius (Chiridysus) rufimanus* A. Fleischer, 1898; delete FE. No published data from the Far East of Russia.

p. 266: *Dyschirius (Dyschiriodes) fassatii* Kult, 1949; add the subspecies *fassatii fassatii* Kult, 1949. For a polytypic species, you must add the name of the nominative subspecies (Fedorenko, 2003).

p. 266: Add the following: *Dyschirius (Dyschiriodes) fassatii koreanus* Fedorenko, 2003: 372 A: SC. Type locality: “Korea, Chungkongbukdo Prov., Dang-jin City, Suk-moon sea-mall” (Fedorenko, 2003).

p. 268: *Dyschirius (Dyschiriodes) yezoensis yezoensis* Bates, 1883: 223; change page to: 1883: 232 (Bates, 1883).



p. 268: *Dyschirius*, subgenus *Dyschirius* Bonelli, 1810, synonym *Dyschiridius* Jeannel, 1941a: 263; change page to: 1941a: 260. To be correct, the beginning of the description is on page 260, where Jeannel introduced the name and the type species “*Dyschiridius* nov.; type: *arenosus* Stephens”; on page 262 the characteristic features of the genitalia of the new subgenus were given (that is, the diagnosis); page 263 contains a key to the subgenera (Jeannel, 1941).

p. 272: *Dyschirius* (*Eudyschirius*) *ussuriensis* Fedorenko, 1991: 149 (*Dyschiriodes*); change the genus from *Dyschiriodes* to *Dyschirius* (Fedorenko, 1991).

p. 276: *Scarites* (*Parallelomorphus*) *terricola pacificus* Bates, 1873; add FE. Locations: south of Primorsky Krai (Lafer, 1989), Jewish Autonomous Region (Rogatnykh, Koshkin, 2011).

p. 283: *Miscodera arctica* (Paykull, 1798), synonym *erythropus* Motschulsky, 1844: 75; change page to: 1844: 76 (Motschulsky, 1844).

p. 302: *Bembidion* (*Blepharoplataphus*) *hastii* C.R. Sahlberg, 1827, synonym *ventricosus* Motschulsky, 1850a: 11; change the reference to: 1860a: 89. See: *Peryphus ventricosus* Motschulsky, 1850: 11, nomen nudum, type locality “Ins. Kuril. Urupa”; described as *Peryphus ventricosus* Motschulsky, 1860: 89, type locality: “Kamtschatka, rivages du fl. Kodogorek” (Motschulsky, 1850, 1860).

p. 304: *Bembidion*, subgenus *Chlorodium* Motschulsky, 1864, type species *Bembidium splendidum* Sturm, 1825; change the type species to: *Bembidium colchicum* Chaudoir, 1850. See: *Chlorodium* Motschulsky, 1864, the type species: *Bembidium colchicum* Chaudoir, 1850 (= *Bembidium splendidum* Sturm, 1825), designated by Jeannel (1941).

p. 304: *Bembidion* (*Chlorodium*) *difforme* (Motschulsky, 1844), synonym *posterium* Gemminger et Harold, 1868 (*Bembidion*); change

the genus from *Bembidion* to *Bembicidium* (Gemminger, Harold, 1868).

p. 308: *Bembidion* (*Eupetedromus*) *sibiricum* Dejean, 1831; add JA. See: *Bembidion* (*Eupetedromus*) *inouyei* nom. nov. sensu Netolitzky, *Bembidion* (*Eupetedromus*) *sibiricum* Motschulsky (= *B. sibiricum*) from Hokkaido, Japan (Habu, 1972: 17).

p. 309: *Bembidion* (*Hydrium*) *pogonoides* Bates, 1883; add FE (Sikhote-Alin). Locations: Sikhote-Alinsky Nature Reserve (Sundukov, 2003), Lazovsky Nature Reserve (Sundukov, 2009a).

p. 310: *Bembidion* (*Melomalus*) *altaicum* Gebler, 1833: 272 (*Bembidion*); change the genus of description from *Bembidion* to *Anchomenus* (Gebler, 1833).

p. 310: *Bembidion*, subgenus *Metallina* Motschulsky, 1850a: 12; change page to: 1850a: 13 (Motschulsky, 1850).

p. 312: *Bembidion* (*Neoemphanes*) *shimoyamai* Habu, 1978; add FE. Locations: Primorsky Krai: Murav’eva-Amurskogo Peninsula (Lafer, 2005), Sikhote-Alinsky Nature Reserve (Sundukov, 2003), Lazovsky Nature Reserve (Sundukov, 2009a).

p. 314: *Bembidion* (*Notaphocampa*) *niloticum batesi* (Putzeys, 1875); add synonym *niloticum* Bates, 1873: 301 (*Bembidion*). Bates provided the morphological characteristics for *Bembidium niloticum* (Dejean, 1831) (Bates, 1873), which was subsequently distinguished as a separate species, *Notaphus batesi* nom. nov. (Putzeys, 1875). Therefore, *Bembidium* (*Notaphus*) *niloticum* Bates, 1873: 301, type locality: “Nagasaki”, is a junior synonym of *Bembidion* (*Notaphocampa*) *niloticum batesi*.

p. 316: *Bembidion* (*Ocydromus*) *echigonum* Habu et Baba, 1957; delete FE. No published data from the Far East of Russia.

p. 317: *Bembidion* (*Ocydromus*) *scopulinum* (Kirby, 1837), synonym *mongolicum*

Jedlička, 1967c: 105; change reference to: 1965e: 127. Described as *Bembidion thermarum mongolicum* ssp. nov.; type: Mongolei, Zum Chara, im Mus. Praha (Jedlička, 1965).

p. 318: *Bembidion (Ocydromus) umeayi* Habu, 1959; add FE. Location: southeastern Sikhote-Alin (Sundukov, 2013).

p. 324: *Bembidion (Peryphus) amurense amurense* Motschulsky, 1859d: 488 (*Peryphus*); change reference to: 1860a: 90. See: *Peryphus amurenensis* Motschulsky, 1859: 488, nomen nudum, type locality: “fl. Amour, depuis la Schilka jusqu’a Nikolaëvsk”; described as *Peryphus amurenensis* Motschulsky, 1860: 90, type locality: “fl. Amour aux environs de Nikolaevsk” (Motschulsky, 1859, 1860). In addition, as regards *B. amurense*, the catalogue contains an incorrect reference to Motschulsky, 1859d; that work is actually referred to in the catalogue’s bibliography as Motschulsky, 1859b.

p. 324: *Bembidion (Peryphus) amurense amurense* (Motschulsky, 1860); delete JA. Another subspecies inhabits all Japanese islands: *B. amurense trajectum* Netolitzky, 1939 (Netolitzky, 1939, 1943; Yoshitake *et al.*, 2011).

p. 325: *Bembidion (Peryphus) captivorum* Netolitzky, 1943; delete JA. This species does not occur in Japan, the taxon bearing that name in Japan is known as *B. (Peryphus) poppii pohlai* Kirschenhofer, 1984; type locality: “Japan: Kamikochi” (Kirschenhofer, 1984: 73).

p. 328: *Bembidion (Peryphus) poppii pohlai* Kirschenhofer, 1984; add FE. Locations: Sakhalin, South Kuriles (Lafer, 2002, 2006; Sundukov, Makarov, 2013; Sundukov, 2017).

p. 330: *Bembidion (Philochthus) baicalicum* (Motschulsky, 1844); add FE. Locations: Khabarovsk (Berlov, Berlov, 1997a), Primorsky Krai (Sundukov, 2013).

p. 332: *Bembidion (Plataphus) coelestinum* (Motschulsky, 1844); add FE. Locations: Primorsky Krai: Murav’eva-Amurskogo Peninsu-

la (Lafer, 2005), southern Sikhote-Alin (Shilenkov, 1979), Sikhote-Alinsky Nature Reserve (Sundukov, 2003).

p. 333: *Bembidion (Plataphus) gebleri nakanei* Jedlička, 1965; delete FE. In the Far East of Russia, it was erroneously recorded only from the Kuril Islands (Kryzhanovskij *et al.*, 1975). A restudy of this material from the Zoological Institute, Russian Academy of Sciences (St. Petersburg, Russia) showed it to represent *Bembidion pseudolucillum* Netolitzky, 1938 common in the southern Kurile Islands (Sundukov, Makarov, 2013, 2016).

p. 338: *Bembidion (Trichoplataphus) parconaturaviva* Toledano et Schmidt, 2010; add FE NC, delete ES. Type locality: “Holotype: Primorskji Kraj, Novocugujevka; Distribution: Ussuri Region, North Korea” (Toledano, Schmidt, 2010).

p. 339: *Bembidion (incertae sedis) sanatum* Bates, 1883; add FE. Location: Kurile Islands: Kunashir (Sundukov, Makarov, 2016).

p. 342: genus *Elaphropus* Motschulsky, 1839, synonym *Barytachys* Chaudoir, 1868d: 213; change page to: 1868d: 212 (Chaudoir, 1868).

p. 343: *Elaphropus latissimus latissimus* (Motschulsky, 1851), synonym *unistriatus* Reitter, 1887g: 494; change page to: 1887g: 497 (Reitter, 1887).

p. 345: *Tachys (Paratachys) bistriatus bistriatus* (Duftschmid, 1812); delete FE. This western Palaearctic species is unknown from the Russian Far East.

p. 352: *Tachyura (Tachyura) gradata* Bates, 1873b: 331 (*Tachyura*); change the genus from *Tachyura* to *Tachys*. Described as *Tachys gradatus* (Bates, 1873).

p. 356: *Pogonus (Pogonus) iridipennis* Nicolai, 1822: 16 (*Pogonus*); change the genus from *Pogonus* to *Carabus*. Described as *Carabus (Pogonus) iridipennis* (Nicolai, 1822).

p. 358: *Perileptus japonicus* Bates, 1873; add NC. Location: “Kaesong city, Kaesong; S. Hwanghae, Haeju, Mt. Suyoung-san” (Park, Széll, 2004).

p. 420: *Trechus (Epaphius) densicornis* (Fischhuber, 1977); add the subspecies *densicornis densicornis* (Fischhuber, 1977). For a polytypic species, the name of the nominative subspecies must be added (Sundukov, 2013).

p. 420: Add the following: *Trechus (Trechus) densicornis khuntami* Sundukov, 2013: 24 A: FE (Sikhote-Alin). Type locality: “headwaters of the Dzhigitovka River”, Sikhote-Alin, Primorsky Krai (Sundukov, 2013).

p. 420: Add the following: *Trechus (Trechus) densicornis sinigorensis* Sundukov, 2013: 25 A: FE (Sikhote-Alin). Type locality: “Levaya Sinigorka River”, Siniy Ridge, Primorsky Krai (Sundukov, 2013).

p. 421: *Trechus (Epaphius) plutenkoi kushironis* Uéno, 1992; add FE. Location: South Kuriles: Yurii Island (Sundukov, 2017).

p. 423: *Trechus (Trechus) apicalis* Motschulsky, 1845; correct: JA (Rishiri-to Island). Known only from Rishiri-to Island, Japan, but absent from Hokkaido (Uéno, 1984; Uéno, Lafer, 1994).

p. 424: *Trechus (Trechus) basarukini* P. Moravec et Wrase, 1997; add the subspecies *basarukini basarukini* P. Moravec et Wrase, 1997. For a polytypic species, the name of the nominative subspecies must be added (Sundukov, 2013).

p. 424: Add the following: *Trechus (Trechus) basarukini shokhrini* Sundukov, 2013: 23 A: FE (Sikhote-Alin). Type locality: “Snezhnaya Mountain”, southern Sikhote-Alin, Primorsky Krai (Sundukov, 2013).

p. 439: *Trechus (Trechus) nakaguroi* Uéno, 1960; limited FE (Kurile Islands). In Russia, known only from Kunashir Island, southern Kuriles (Sundukov, 2001a).

p. 445: *Trechus (Trechus) rubens* (Fabricius, 1792); delete FE. There are no records of this species from the Russian Far East. The eastern range limit in Russia is Lake Baikal (Khobrakova *et al.*, 2014).

p. 464: *Patrobus assimilis* Chaudoir, 1844; add FE. Location: southern Sikhote-Alin, Sestra Mountain, Sestrinsky Stream, 1500 m elevation (Sundukov, 2013).

p. 479: *Mastax thermarum egorovi* Lafer, 1973: 852; change page to: 1973: 853 (Lafer, 1973).

p. 484: *Chlaenius (Achlaenius) variicornis* A. Morawitz, 1863; add FE, delete ES. Locations: Primorsky Krai (Kryzhanovskij, 1976; Lafer, 1989; Sundukov, 2009a, 2013), Kurile Islands (Kryzhanovskij *et al.*, 1975; Lafer, 1989). No records from eastern Siberia (ES).

p. 484: *Chlaenius (Agostenus) sulcicollis* (Paykull, 1798); add FE. Location: south of Primorsky Krai (Kryzhanovskij, 1976; Sundukov, 2013).

p. 489: *Chlaenius (Chlaenites) spoliatus spoliatus* (P. Rossi, 1792); delete FE. The Far East supports only the East Asian subspecies *Ch. spoliatus motschulskyi* Andrewes, 1928 (Kryzhanovskij, 1976; Lafer, 1989).

p. 490: *Chlaenius (Chlaenius) pallipes* Gebler, 1823: 127 (*Epomis*); change page to: 1823: 128 (Gebler, 1823).

p. 491: *Chlaenius (Eochlaenius) suvorovi* (Semenov, 1912); add FE JA, delete ES. Type locality: “fluvii Ussuri, 20 km infra Nikolsk; ejusdem fluvii littora, 60 km infra Iman” (= Ussuri River, 20 km downstream Ussuriysk and 60 km below Iman River) (Semenov, 1912: 602–603); south of Primorsky Krai (Kryzhanovskij, 1976; Lafer, 1989; Sundukov, 2013); Honshu, Japan (Habu, 1987). No records from eastern Siberia (ES).



p. 491: *Chlaenius (Haplochlaenius) insularis* Uéno, 1964; delete FE. No records from Russia. Sakhalin supports *Ch. (Chlaeniellus) insularis* Kryzhanovskij, 1973 (= *Ch. circumductus* A. Morawitz, 1862) (Kryzhanovskij, 1973).

p. 564: *Acupalpus (Acupalpus) ussuriensis* Lafer, 1989: 198; change page to: 1989: 199. Described in a key, the thesis beginning on page 198, but the name of the species, the type material and the type locality appearing only on page 199 (Lafer, 1989).

p. 583: *Cymindis*, subgenus *Cymindis* Latreille, 1805, synonym *Anomoeus* Fischer von Waldheim, 1820: 12; change page to: 1820: 125 (Fischer von Waldheim, 1820).

p. 584: *Cymindis (Baicalotarus) rivularis* Motschulsky, 1844; add FE. Location: southern Sikhote-Alin (Sundukov, 2011).

p. 596: *Apristus striatus* (Motschulsky, 1844); delete JA. Bates (1873) mistakenly recorded it from Japan. The truly Japanese species was later described as *A. grandis* Andrewes, 1937 (Andrewes, 1937), with *A. striatus* excluded from the fauna of Japan.

p. 597: *Dromius (Dromius) angusticollis* J.R. Sahlberg, 1880, synonym *flavipes* Motschulsky, 1859d: 488; change reference to: 1864: 229. See: *Dromius flavipes* Motschulsky, 1859: 488, nomen nudum, type locality: “du fl. Amour, depuis la Schilka jusqu’à Nikolaëvsk”; described as *Dromius flavipes* Motschulsky, 1864: 229, type locality: “Des rives du fl. Amour.” (Motschulsky, 1859, 1864).

p. 597: *Dromius (Dromius) angusticollis* J.R. Sahlberg, 1880; add NC. Location: “Prov. Ryanggang, on the road from Samjiyon to Pekdu-san, 2.260–2.300 m” (Park, Széll, 2004).

p. 597: *Dromius (Dromius) ater* Motschulsky, 1859d: 488; change reference to: 1864: 228. See: *Dromius ater* Motschulsky, 1859: 488, nomen nudum, type locality: “du fl. Amour,

depuis la Schilka jusqu’à Nikolaëvsk”; described as *Dromius ater* Motschulsky, 1864: 228, type locality: “Des bords du fl. Amour.” (Motschulsky, 1859, 1864).

p. 598: *Dromius (Klepterus) prolixus* Bates, 1883: 207; change page to: 1883: 282 (Bates, 1883).

p. 602: *Microlestes fissuralis* (Reitter, 1901); add FE. Location: Amurskaya oblast’ (Rogatnykh, 2007).

p. 603: *Microlestes schroederi* Holdhaus, 1912: 514; correct: 1912: 38 [514]. As the page numbers in that work are duplicated: 1–64 [477–540], it is more correct to quote both options (Holdhaus, 1912).

p. 605: *Paradromius (Manodromius) ruficollis* (Motschulsky, 1844); add NC. Location: “Prov. Ryanggang, Mt. Pektusan, 1900 m” (Park, Széll, 2004).

p. 607: *Philorhizus sigma* (P. Rossi, 1790), synonym *fasciatus* Paykull, 1790: 226; change page to: 1790: 97 (Paykull, 1790).

p. 618: *Setolebia caligata* Bates, 1889c: 219 (*Lebia*); change both the reference and genus to *Setolebia caligata* Bates, 1888b: 382 (*Lebia*). Originally described as *Lebia caligata* (Bates, 1888). That work of 1889 discussed the following: “*Lebia prattiana*. — *L. fuscae* (Morawitz) ... “description *L. fuscae*” ... This species connects the Asiatic group of *Lebia*, in which the thorax is wholly rounded anteriorly (without anterior angles) and the outer angle of the elytral truncature dentiform, with the numerous group iv. â of Chaudoir’s Monograph of the Lebiides, in which the elytral interstices are similarly convex, but the outer angle of the truncature rounded etc. *L. prattiana*, in fact, resembles much a large *L. caligata* (Bates)” (Bates, 1889). Thus, *L. caligata* was originally described earlier and in a different genus. In addition, the quoted piece is on page 218, not 219, as falsely indicated in the catalogue.

p. 618: *Parena cavipennis* (Bates, 1873); add NC. Location: “Kaesong, Kaesong city, Hotel Janamsan” (Park, Széll, 2004).

p. 619: *Parena monostigma* (Bates, 1873); add NC. Location: “Prov. Gang-von, district On-dzong, Kungang-san, near Hotel, Go-song, 250 m” (Park, Széll, 2004).

p. 627: *Badister (Badister) pictus* Bates, 1873; delete FE. There is one mention for the Far East of Russia: “finding this species is possible in Kunashir and southern Sakhalin” (Komarov, 1991). No actual records are known.

p. 628: *Badister (Baudia) marginellus* Bates, 1873; add FE (Kurile Islands). Locations: Kunashir, Shikotan and Yurii islands (Mordkovich, 2003; Sundukov, 2008, 2017; Sundukov, Makarov, 2013).

p. 628: *Badister (Baudia) ussuriensis* Jedlička, 1937; add NC. Location: North Korea: Savoron (Jedlička, 1960).

p. 640: *Peronomerus fumatus* Schaum, 1854; delete FE. No records from the Russian Far East.

p. 640: *Pentagonica daimiella* Bates, 1892; add FE NC. Locations: Jewish Autonomous Region (Kataev, 2006), southern Sikhote-Alin (Sundukov, Smirnov, 2010); “North Pyongan Prov., Mt. Myohyang-san” (Park, Széll, 2004).

p. 642: *Perigona (Trechicus) nigriceps* (Dejean, 1831); add ES. Location: Buryatia (Shilenkov, Anichtchenko, 1998; Sundukov, 2009b; Khobrakova *et al.*, 2014).

p. 644: *Agonum (Agonum) gracilipes* (Duftschmid, 1812), synonym *elongatum* Fischer von Waldheim, 1823: 19; change page to: 1823: 126. The descriptions of this taxon are given on pages 126–127, while the beetle’s drawing in Tab. XIX, fig. 3 (Fischer von Waldheim, 1823).

p. 646: *Agonum (Europhilus) exaratum* (Mannerheim, 1853); add FE. Locations: Chu-

kotka, Magadanskaya oblast’, Kamchatka (Lafer, 1992a).

p. 646: Add the following: *Agonum (Europhilus) gratiosum gratiosum* Mannerheim, 1853: 142 A: FE. Location: Chukotka (Lafer, 1992a).

p. 654: *Colpodes komarovi* (Lafer, 1976); change to *Xestagonum komarovi* (Lafer, 1976) (Sundukov, 2013).

p. 657: *Eucolpodes japonicum chinadense* (Jedlička, 1940); delete FE. In the Far East of Russia, *E. japonicum* (Motschulsky, 1861) is known to occur only on islands (South Kuriles and Sakhalin), being represented by the nominative subspecies *E. japonicum japonicum* (Motschulsky, 1861). This species is unknown from the mainland Far East of Russia.

p. 657: *Eucolpodes japonicum japonicum* (Motschulsky, 1861); add FE. Locations: Sakhalin and South Kuriles (Iturup, Kunashir, Shikotan) (Kryzhanovskij *et al.*, 1975; Berlov, Berlov, 1997b; Lafer, 1992a, 2002; Mordkovich, 2003; Sundukov, Makarov, 2013; Vertyankin, Shabalin, 2013).

p. 658: *Euplynes batesi* Harold, 1877; add FE. Location: south of Primorsky Krai (Makarov, Sundukov, 2011).

p. 658: *Gyrochaetostylus atricomes* (Bates, 1873), synonym *piceonigrum* Jedlička, 1936d: 50; change *piceonigrum* to *piceoniger* (Jedlička, 1936b).

p. 661: *Lissagonum lampros* (Bates, 1873); add FE. Location: Kurile Islands: Kunashir (Makarov, Sundukov, 2011).

p. 667: *Platynus mannerheimii* (Dejean, 1828), synonym *octofoveolatus* Mäklin, 1857: 338; change reference to: 1855: 34. The 1857 publication is a translation from Swedish to German, dated 1855 (Mäklin, 1855, 1857).

p. 674: *Xestagonum shokrini* Sundukov, 2013: 154; change *shokrini* to *shokhrini*, and change page to: 2013: 46 (Sundukov, 2013).

p. 697: *Poecilus (Poecilus) samurai* (Lutshnik, 1916); add FE (Sakhalin). Location: southern Sakhalin (Lafer, 1989).

p. 698: *Poecilus (Poecilus) versicolor* (Sturm, 1824); add JA. A junior synonym, *Poecilus planicollis* Motschulsky, 1861, was described from Japan (Motschulsky, 1861: 5).

p. 701: *Pterostichus (Badistrinus) haptoderoides japonensis* (Lutshnik, 1922); add FE. Locations: Kurile Islands (Iturup, Kunashir, Shikotan) and Sakhalin (Krivolutskaja, 1973; Kryzhanovskij *et al.*, 1975; Lafer, 2002; Sundukov, Makarov, 2013; Vertyankin, Shabalin, 2013).

p. 701: *Pterostichus (Bothriopterus) adstrictus* Eschscholtz, 1823; add JA. Locations: Abashiri, Hokkaido (Sasakawa, Kubota, 2007), Obihiro, Hokkaido (Kaizuka, Iwasa, 2014), etc.

p. 707: *Pterostichus (Cryobius) kaninensis kurnakovi* G.E. Ball, 1966; add FE. Location: Chukotka: Wrangel Island (Khruleva, 1987).

p. 708: *Pterostichus (Cryobius) korgei* Jedlička, 1964; delete FE. No records from the Russian Far East.

p. 708: *Pterostichus (Cryobius) kurosawai* Tanaka, 1958; add JA. Location: Hokkaido: Daisetsu Mts, Rishiri Island (Morita, 2002).

p. 708: *Pterostichus (Cryobius) nivalis* (R.F. Sahlberg, 1844); add FE. Type locality: “In monte Morikan sub lapidibus, nin...adhuc tectis, capta”, Ayan, Khabarovsk Krai (Sahlberg, 1844: 37–39); Kamchatka (Ball, 1966), Chukotka (Erjiomin, 1998).

p. 711: *Pterostichus (Eosteropus) coruscus* (Tschitschérine, 1895); add FE. Location: south of Primorsky Krai: Furugelma Island (Lafer, 2004).

p. 712: Add the following: *Pterostichus (Eosteropus) orientalis nigromontanus* Lafer et

Budilov, 2015: 102 A: FE. Type locality: Primorsky Krai, Khasansky distr., Kedrovaya Pad' Nature Reserve (Lafer, Budilov, 2015).

p. 714: *Pterostichus (Feroperis) sungariensis* Lafer, 1979; add HEI. Type locality: “the mouth of Sungari River”, Heilongjiang, China (Lafer, 1979: 26–27). The subsequent discovery of this species in the Amur region of Russia did not exclude its occurrence in China, but only raised the question of its taxonomic relationship with *Pterostichus melanodes* (Chaudoir, 1878) (Lafer, 1992b).

p. 717: *Pterostichus*, subgenus *Koreonialoe* Park et Kwon, 1996, synonym *Natalianoe* O. Berlov et Plutenko, 1997: 4; change page to: 1997: 50 (Berlov, Plutenko, 1997).

p. 717: *Pterostichus*, subgenus *Lenapterus* O. Berlov, 1996, synonym *Galapterus* O. Berlov et Plutenko, 1997: 3; change page to: 1997: 47 (Berlov, Plutenko, 1997).

p. 717: *Pterostichus (Lenapterus) costatus* (Ménétriés, 1851); add NT WS. A Holarctic polar species: the tundra zone from Gydanskii Peninsula in the north of Eurasia to Hudson Bay in North America (Sundukov, 2005).

p. 720: *Pterostichus (Melanius) licenti* Jedlička, 1939; delete FE. Erroneously recorded from the Far East of Russia in the catalogue of the ground beetles of Russia (Kryzhanovskij *et al.*, 1995). This information may have been used in the Catalogue of Palaearctic Coleoptera (Bousquet, 2003, 2017).

p. 720: *Pterostichus (Metallophilus) kamtschaticus alexejevi* Brinev, 2001; add ES, delete FE. Distribution: Central Yakuria (Brinev, Shilenkov, 2001).

p. 720: *Pterostichus (Metallophilus) kamtschaticus kamtschaticus* Motschulsky, 1860; delete ES. Known only from Kamchatka (Brinev, Shilenkov, 2001).

p. 720: *Pterostichus (Metallophilus) pfizenmayeri* Poppius, 1906; add FE. Distribution: Yakutia to the west of Yakutsk and Suntar-Khayata Ridge (Brinev, Shilenkov, 2001).

p. 720: *Pterostichus (Metallophilus) sublaevis* (J.R. Sahlberg, 1880); add FE, delete NT. Distributed from Yamal Peninsula (WS) to Chukotka (FE) (Brinev, Shilenkov, 2001).

p. 732: *Pterostichus (Petrophilus) nigellus* A. Morawitz, 1862; delete ES. Type locality: “Bai De Castries”, Khabarovsk Krai (Morawitz, 1862: 214[255]); “a syntype from USSR (Khabarovsk kraj): De Castries B., Arthur N.” (Silfverberg, 1987: 21). Known only the syntype (Sundukov, 2013).

p. 733: *Pterostichus (Phonias) diligens* (Sturm, 1824); add FE. Locations: Kurile Islands, Kamchatka, Sakhalin, Moneron Island (Berlov, Berlov, 1997b; Lafer, 2002, 2006; Sundukov, Makarov, 2013; Vertyankin, Shabalin, 2013; Sundukov, 2014, 2017).

p. 734: *Pterostichus (Phonias) kutensis* Poppius, 1905; add FE. Location: Khabarovsk Krai: northern Amur Region (Lyubchanskii et al., 2006; Budilov, 2016; Koshkin et al., 2016; Kuberskaya, Mutin, 2016).

p. 735: *Pterostichus (Phonias) sotkaensis* Jedlička, 1958; delete FE. Excluded from fauna of the Russian Far East (*Pterostichus sotkaensis* auct. = *Pterostichus (Pledarus) larisae* Sundukov, 2013) (Sundukov, 2013).

p. 747: *Pterostichus (incertae sedis) marginatus* Matsumura, 1911; limited FE (Sakhalin). Originally described from Sakhalin (Matsumura, 1911), mentioned in the list of South Sakhalin beetles (Yokoyama, Kanô, 1927). As it was not found later, it was excluded from the fauna of Sakhalin as an unclear taxon (nomen dubium) (Lafer, 2011).

p. 764: *Calathus*, subgenus *Neocalathus* Ball et Nègre, 1972, type species: *Carabus malano-*

*cephalus* Linnaeus, 1758; change *malanocephalus* to *melanocephalus*.

p. 769: *Dolichus halensis* (Schaller, 1783); add SCHYUN. Junior synonyms were described from Sichuan and Yunnan: *Dolichus bicolor* Maindron, 1910 (de Yunnan Sen et de Tali), *Dolichus viduus* Maindron, 1910 (Yunnan), *Dolichus viduus* ab. *phaeopus* Maindron, 1910 (Yunnan), *Dolichus rufithorax* Jedlička, 1936 (Tatsienlu, Sichuan), *Dolichus rufithorax* ab. *pictus* Jedlička, 1936 (Pingshiang), *Dolichus viduus* ab. *brunneipennis* Jedlička, 1936 (Yunnan), *Dolichus viduus* ab. *triangularis* Jedlička, 1936 (Tatsienlu, See Tsong, Sichuan), *Dolichus phaeopus* ab. *limbatus* Jedlička, 1936 (Szetschuan), *Dolichus phaeopus* ab. *szetschuanus* Jedlička, 1936 (Kiating, Sichuan) (Maindron, 1910; Jedlička, 1936a).

p. 785: *Pseudotaphoxenus dauricus dauricus* (Fischer von Waldheim, 1823); delete FE. Erroneously recorded from the Far East of Russia (Casale, 1988; Kryzhanovskij et al., 1995). The confusion was probably caused by the label “all’Ussuri ad Est” (Casale, 1988), based on *Taphoxenus ussuriensis* Jedlička, 1953 (= *Pseudotaphoxenus dauricus dauricus*), type locality: “Transbaikal, Werchne-Udinsk” (= Ulan-Ude, Buryatia) (Jedlička, 1953).

p. 791: *Synuchus (Synuchus) arcuaticollis* (Motschulsky, 1861); add FE (Kamchatka, Sakhalin). Locations: Kamchatka, Sakhalin (Lafer, 1989, 2002; Berlov, Berlov, 1997b; Vertyankin, Shabalin, 2013).

p. 792: *Synuchus (Synuchus) crocatus* (Bates, 1883); delete FE. It was erroneously recorded in the fauna of Russia only from the Kunashir Island, southern Kurile Islands (Kryzhanovskij et al., 1975). Subsequent authors referred to these data (Habu, 1978; Hovorka, Sciaky, 2003), although this species was long excluded from the fauna of Russia (Kryzhanovskij et al., 1995). There are no later publications concernig *S. crocatus* in Russia.

p. 792: *Synuchus (Synuchus) orbicollis* A. Morawitz, 1862, synonym *cycloderus* Heyden,



1886c: 270 (*Synuchus*); change the genus *Synuchus* to *Calathus*. Originally described as *Calathus cycloclerus* (Heyden, 1886).

p. 796: *Amara (Amara) communis* Panzer, 1797e: 40 no 2 (*Carabus*); change the year and page to: 1796g: no. 2 (Panzer, 1796). The catalogue contains further three references to “Panzer, 1797” (for the type species of *Parapoecilus*, the genus *Amara*, and the subgenus *Amara*), although there is no citation of Panzer 1797 contained in the bibliography list.

p. 798: *Amara (Amara) kingdonoides* Hieke, 2002; add ES NC WS (Altai). Locations: “Im sibirischen Tiel von Russland: Altaj, West- und Ostsajan-Gebirge bis nach Jakutien und Gebiet Magadan; im Gebiet Irkutsk, in Transbaikalien und Amur-Gebiet. Im Ussuri-Gebiet im Sichotealin-Gebirge. Auch auf Sachalin und in den Bergen des nordlichen Korea” (Hieke, 2002).

p. 806: *Amara (Bradytus) aurichalcea* Germar, 1823; delete JA. There are no records of this species from Japan.

p. 807: *Amara (Bradytus) fritzhieki* Sundukov, 2013: 165 (*Bradytus*); change the genus of description *Bradytus* to *Amara* (Sundukov, 2013).

p. 807: *Amara (Bradytus) pseudosimplidens* Lafer, 1980; add NC. Paratype: “Democratic People’s Republic of Korea, 2 ♂, Di Don-Yur leg.” (Lafer, 1980).

p. 809: *Amara (Celia) laticarpa* Bates, 1873; add BEI JA HEI MG SHA QIN. Type locality: “Hiogo”, Japan (Bates, 1873: 293); distribution: “Baikal-Gebiet, Transbaikalien, Amur- und Ussuri-Gebiet, Japan, N. Korea, N. und NO. China (Mandshurei, Umgebung von Peking, Shaanxi, Qinghai), O. Mongolei” (Hieke, 2000).

p. 810: *Amara (Celia) pseudobrunnea* Lindroth, 1968; delete FE. There are no records of this species from the Far East of Russia.

p. 810: *Amara (Celia) saginata vilis* Tschischérine, 1894; delete JA. *A. saginata* Ménériés, 1848 was recorded from Japan and referred to as a senior synonym of *A. laticarpa* Bates, 1873. Both are quoted in the Catalogue as two separate species.

p. 814: *Amara (Curtonotus) kataevi* Sundukov, 2001: 440 (*Amara*); change the genus of description *Amara* to *Curtonotus* (Sundukov, 2001b).

p. 814: *Amara (Curtonotus) larisae* Sundukov, 2001: 437 (*Amara*); change the genus of description *Amara* to *Curtonotus* (Sundukov, 2001b).

p. 824: *Amara (Reductocelia) arctica* Poppius, 1906; add FE. Locations: Bulun on Lena River and Yakutsk, Yakutia; Omsukchan in Magadanskaya oblast’; Wrangel Island, Chukotka (Hieke, 1999); Wrangel Island (Khruleva, 1987).

p. 824: *Amara (Reductocelia) colvillensis* Lindroth, 1968; add ES. Locations: Zhigansk and Kyzyr on Lena River, and Olenek River, Yakutia (Hieke, 1999).

p. 825: *Amara*, subgenus *Xenocelia* Hieke, 2001: 13; change page to: 2001: 7 (Hieke, 2001).

### Far Eastern taxa with ambiguous page numbers

The International Code of Zoological Nomenclature (ICZN, 1999) does not control the “primacy” of the page numbers where the taxon is described. The description is often published together with an identification key and if the key is given before the description, then an ambiguous situation arises: the taxonomic name, part of the diagnostic features, and sometimes the type locality/-ies of the new taxon is a page or more earlier than the full description. In this situation, subsequent authors behave in different ways. Some are guided by the simple princi-

ple of the first introduction (that is, by the pages of the key), but others by the pages of the full description. Obviously, both the name and type locality/-ies, as well as characters can be found, for example, in an abstract; however, the common sense suggests that an abstract should not be taken as the first indication. Thus, we consider the principle of the first mention (which is followed by some authors of the Catalogue of Palaearctic Coleoptera) unsuccessful.

Reference to only one (first) page was formed in the taxonomic literature in the XVIII–XIX centuries, when complete descriptions rarely took more than one page. As a rule, modern publications include a detailed description of a taxon, its drawings or photographs, and often a key to similar taxa. Since the most important task of a catalogue lies in simplifying the search for the necessary information, we propose to depart from the tradition that has developed in the coleopterological literature, presenting all pages of the original description, as is common in taxonomic publications on Hymenoptera (Smith, 2001; Taeger *et al.*, 2010; Smith, Tripotin, 2012; Zhao *et al.*, 2012; Rosa *et al.*, 2014; van Achterberg, Tabei, 2014; Madl, 2017, etc.) and in some other groups. An example of such an indication for Carabidae are Habu'a (1967, 1973, 1978) monographs.

p. 61: *Notiophilus fasciatus* Mäklin, 1855, synonym *reitteri* Spaeth, 1900: 522; actually: 1900: 513 (key), 522 (description) (Späth, 1900).

p. 122: *Carabus (Hemicarabus) macleayi macleayi* Dejean, 1826, synonym *corensis* Breuning, 1933b: 856; actually: 1933b: 131 (key), 857 (description) (Breuning, 1933).

p. 271: *Dyschirius (Eudyschirius) gracilis gracilis* (Heer, 1837), synonym *pekinensis* Kult, 1949b: 127; actually: 1949b: 127 (key), 132 (description) (Kult, 1949).

p. 334: *Bembidion (Plataphus) lucillum sundukovi* Toledano, 2008a: 19; actually: 2008a: 13 (key), 19 (description) (Toledano, 2008).

p. 590: *Cymindis*, subgenus *Orienterus* Sundukov, 2011: 331; actually: 2011: 318 (key), 331 (description) (Sundukov, 2011).

p. 603: *Microlestes minutulus* (Goeze, 1777), synonym *longulus* Reitter, 1901f: 379; actually: 1901f: 372 (key), 379 (description) (Reitter, 1901).

p. 626: *Diplocheila*, subgenus *Submera* Habu, 1956a: 58; actually: 1956a: 50 (key), 58 (description) (Habu, 1956a).

p. 626: *Diplocheila*, subgenus *Submera* Habu, 1956, synonym *Shirahataia* Habu, 1956a: 63; actually: 1956a: 50 (key), 63 (description) (Habu, 1956a).

p. 635: genus *Lachnocrepis* LeConte, 1853, synonym *Eulachnocrepis* Habu, 1956b: 96; actually: 1956b: 79 (key), 96 (description) (Habu, 1956b).

p. 658: *Gyrochaetostylus atricomes* (Bates, 1873), synonym *piceonigrum* Jedlička, 1936d: 50; actually: 1936d: 48 (key), 50 (description) (Jedlička, 1936b).

p. 714: *Pterostichus (Feroperis) alexandrovii* Lafer, 1979: 16; actually: 1979: 7 (key), 16 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) arsenjevi* Lafer, 1979: 27; actually: 1979: 7 (key), 27 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) chehcircensis* Lafer, 1979: 28; actually: 1979: 8 (key), 28 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) kurentzovi kurentzovi* Lafer, 1979: 18; actually: 1979: 7 (key), 18 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) kurentzovi labzuki* Lafer, 1979: 24; actually: 1979: 7 (key), 24 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) levadensis* Lafer, 1979: 21; actually: 1979: 7 (key), 21 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) procax decastrisensis* Lafer, 1979: 30; actually: 1979: 7 (key), 30 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) shingarevi maichensis* Lafer, 1979: 19; actually: 1979: 7 (key), 19 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) shingarevi shingarevi* Lafer, 1979: 23; actually: 1979: 7 (key), 23 (description) (Lafer, 1979).

p. 714: *Pterostichus (Feroperis) vladivostokensis* Lafer, 1979: 13; actually: 1979: 7 (key), 13 (description) (Lafer, 1979).

p. 734: *Pterostichus (Phonias) morawitzianus* (Lutshnik, 1922), synonym *kultukus* Jedlička, 1958d: 238; actually: 1958d: 235 (key), 238 (descript) (Jedlička, 1958).

### Misprints and inconsistencies for taxa from other regions

p. 56: *Nebria (Paranebria) livida livida* (Linnaeus, 1758); delete JA. This is incorrect for Japan, the only subspecies occurring in East Asia being *N. livida angulata* Bänninger, 1949 (Shilenkov, 1975).

p. 162: Add the following: *Carabus (Ohomopterus) dehaanii nakagomei* Kubota, 2010: 49 A: JA (Kyushu). Type locality: Japon, Osumi peninsula, Kagoshima Pref. (Kubota, 2010).

p. 305: *Bembidion (Diplocampa) assimile* Gyllenhal, 1810; delete JA. This western Palaearctic species does not occur in East Asia. An erroneous record from Japan (Hokkaido: Hamakoshi-mizu near Abashiri) belongs to Habu and Baba (1968). Another species of the subgenus *Diplocampa* was later found to inhabit Hokkaido: *B. transparens prostratum* (Motschulsky, 1844).

p. 344: *Lymnastis yanoi* Nakane, 1963; add NC. Location: “Thesong” (Pawłowski, 1974).

p. 374: Add the following: *Dracotrechus meridianus meridianus* Uéno, 2011: 15 A: JA. Type locality: Getô-onsen, 750 m in altitude, Waga-chô of Iwate Prefecture in northeastern Honshu, Northeast Japan (Uéno, 2011).

p. 374: Add the following: *Dracotrechus meridianus thermarum* Uéno, 2011: 18 A: JA. Type locality: Tsunagi, 240 m in altitude, in Morioka-shi of Iwate Prefecture in northeastern Honshu, Northeast Japan (Uéno, 2011).

p. 421: *Trechus (Epaphius) rivularis* (Gyllenhal, 1810); add ES. *T. nigricornis* Motschulsky, 1844 is listed as a synonym of *T. rivularis* in the Catalogue, described from “montagnes près de Kiakhta, au-delà du Baical”, that is, ES (Motschulsky, 1844).

p. 500: *Drypta (Drypta) japonica* Bates, 1873; add NC SC. Locations: NC — “Kaesong city, Kaesong, Hotel Janamsan; North Pyongan Prov. Myo-hyang-san, Iaon-nam vally”; SC — “Prov. Chejudo, Cheju-do, Halla-san, Songpanak, 750 m” (Park, Széll, 2004).

p. 652: genus *Batenoplatynus* Morvan, 1998: 18, type species: *Batenoplatynus assamensis* Morvan, 1999; change 1999 to 1998.

p. 666: genus *Paranchodemus* Habu, 1978a: 7, type species: *Anchodemus calleides* Bates, 1883; change *Anchodemus* to *Anchomenus* (Bates, 1883).

p. 671: genus *Sperkanhir* Morvan, 2010: 16, type species: *Sperkanhir babaulti* Louwerens, 1953; change to *Colpodes babaulti* Louwerens, 1953 (Louwerens, 1953).

p. 685: *Myas*, subgenus *Trigonognatha* Motschulsky, 1858, synonym *Aurisma* Fairmaire, 1889g: 9, type species: *Aurisma delavayi* Fairmaire, 1888; change 1888 to 1889.

p. 712: Add the following: *Pterostichus (Eosteropus) matsunagai* Morita, 2011: 21 A: JA. Type locality: Mt. Shauzo-yama, 1,750–1,830

m alt., Hamamatsu-shi, Shizuoka Prefecture, Central Japan (Morita, 2011).

p. 712: *Pterostichus (Eosteropus) noburai* Morita, 2008; change *noburai* to *noborui* (Morita, 2008).

p. 731: *Pterostichus (Petrophilus) dilutipes* Motschulsky, 1844; add WS. Locations: north and center of West Siberia (Khobrakova *et al.*, 2014).

p. 732: *Pterostichus (Petrophilus) uralensis uralensis* Motschulsky, 1850a: 56 (*Eurypes-sus*); change the genus *Eurypessus* to *Euryperis*. Originally described as *Euryperis uralensis* (Motschulsky, 1850).

p. 737: *Pterostichus (Plectus) drescheri* (Fischer von Waldheim, 1817); add KZ WS. Type locality: “jugo minori montium Altaicorum, prope fluvium Gorgon” (Fischer von Waldheim, 1817: 463); KZ WS (Dudko *et al.*, 2002, 2010, etc.).

p. 750: *Stomis*, subgenus *Stomis* Clairville, 1806, synonym *Stobeus* Fairmaire, 1889g: 8, type species: *Stobeus collucens* Fairmaire, 1888; change 1888 to 1889.

p. 767, 771: *Calathus (incertae sedis) prentus* Jedlička, 1937f: 79 and *Pristosia (Paradoliclus) prenta* Jedlička, 1937f: 79. This is the same taxon listed in the Catalogue as two different species in the subtribes Calathina and Pristosiina. Originally described as *Calathus prentus* (Jedlička, 1937).

p. 793: *Synuchus (Synuchus) vivalis simplex* Semenov, 1891; add KI KZ TD TM, delete NC. Widespread in the mountains of Central Asia; in East Asia, only the subspecies *S. vivalis uenoi* Lindroth, 1956 is found to occur.

## Conclusion

Thus, taking into account the present paper, the fauna of the Far East of Russia currently

includes 781 taxa of specific rank (700 species and 81 subspecies).

In addition to the updates in the list, some general comments on the systematic part of the Catalogue are necessary give. For example, in the directory:

- in the distributional data, errors such as “ES (Altai)” are often encountered, although Altai is part of western Siberia and should be cited as “WS (Altai)”;

- there is no uniform writing of the names of G.G. Jakobson (“Jakobson” or “Jacobson”);

- a lot of errors in recapitulating the proper genus for the first descriptions of taxa of the species rank, this raising doubts about unverified taxa;

- there is no uniform choice for the pages of a taxon’s first description. We suggest that both the page containing the diagnosis and that from the key can be used.

Summarizing this study, it is worth noting that the section on ground beetles in the Catalogue of Palaearctic Coleoptera contains quite a few errors. Of the 761 taxa of the species rank listed in the Catalogue for the fauna of the Far East of Russia, our clarifications concern 145 species, subspecies or their synonyms. It appears that for a better preparation of such much-needed and practically important documents as catalogues of animal and plant diversity, it is necessary to recruit more specialists. These specialists can even duplicate each other, both in taxonomy and assessing the diversity of local faunas. They can even be used if not as authors, then for consulting or as reviewers.

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