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## REMARKS ON AVAILABILITY OF SOME NAMES OF TIGER BEETLES (COLEOPTERA, CICINDELINAE) OF PALAEARCTICS

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**Remarks on Availability of Some Names of Tiger Beetles (Coleoptera, Cicindelinae) of Palaearctics. Matalin A. V., Puchkov A. V.** — Unavailable names of tiger beetles of Palaearctic Region are listed. *Cicindela circumdata* Krynicki, 1832 is shown to be an available name.

**Key words:** Coleoptera, Carabidae, Cicindelinae, tiger beetles, Palaearctics, nomenclature.

**Заметки о пригодности некоторых названий жуков-скакунов (Coleoptera, Cicindelinae) Палеарктики. Маталин А. В., Пучков А. В.** — Приводится список непригодных названий жуков-скакунов Палеарктики. Показано, что *Cicindela circumdata* Крыницки, 1832 — пригодное название.

**Ключевые слова:** Coleoptera, Carabidae, Cicindelinae, жуки-скакуны, Палеарктика, номенклатура.

When preparing a chapter on the tiger beetles (Carabidae Cicindelinae) for the forthcoming "Catalogue of Beetles of Palaearctics" we tried to consider all the synonymy, replacement names, transfer from one genus to another, availability and validity according to the Code (ICZN, 1999).

According to the format of this catalogue, unavailable names are not to be included. In the current paper, we tried to list such species excluded from consideration of the catalogue.

The following names have been shown to be unavailable by Horn (1915), Acciavatti, Pearson (1989), Gebert (1995) and Kryzhanovskij et al. (1995) (available binomina they were associated with, are given in bold):

*Cicindela risi* Schmidt-Goebel, 1846: 4; *C. tripunctata* Dejean, 1837: 2; *C. sexsignata* Chaudoir, 1865: 38 (= *Calochroa flavomaculata* Hope, 1831); *C. solonata* Gistel, 1837: 27 (= *Calochroa octonotata* Wiedemann, 1819); *C. rufescens* Mandl, 1970: 209 (= *Cylindera bigemina* Klug, 1834); *C. erythropus* Schaum, 1863: 63 (= *Cylindera erudita* Wiedemann, 1823); *C. parvula* Dejean, 1837: 6, *C. sexmaculata* Dejean, 1825: 146, *C. stygica* Chaudoir, 1865: 23 (= *Cylindera viduata* Fabricius, 1801); *Cylindrostoma* Motschulsky, 1859: 25 (= *Hypaetha* LeConte, 1860); *Cicindela westerhauseri* Gistel, 1837: 61 (= *Lophyridia catena catena* Fabricius, 1775); *C. designata* Dejean, 1821: 1 (= *Lophyridia plumigera macrograptina* Acciavatti & Pearson, 1989); *C. charactera* Sturm, 1826: 117, *C. despecta* Chaudoir, 1865: 24 (= *Myriochile atelesta* Chaudoir, 1854); *C. ambitiosa* Dejean, 1837: 3 (= *Plutacia dives* Gory, 1833); *C. atrocoerulea* Wilkings, 1890: 119 (= *Cylindera obliquefasciata descendens* Fischer von Waldheim, 1829); *C. vulkanicola* Eschscholtz, 1829: 4 (= *Cicindela restricta spinigera* Eschscholtz, 1829); *C. sibirica* Motschulsky, 1850: 1 (= *Cicindela maritima tshemalensis* Gebert, 1995); *C. hauseri* W. Horn, 1905: 28 (= *Cicindela songorica* Motschulsky, 1845); *C. campestris sapphirina* Semenov, 1906: 77 (= *Cicindela campestris sapphirina* Gene, 1836). Many of

them were listed in the most recent catalogue of the tiger beetles of the World (Wiesner, 1992).

In addition, we have found that the following names are nomina nuda, and are to be excluded from the list of available names: *Cicindela agnata* Sturm, 1843: 3 (= *Lophyridia littoralis nemoralis* Olivier, 1790); *C. catenoides* W. Horn, 1926b: 370 (= *Lophyra cancellata candei* Chevrolat, 1845); *C. caucasica* Dejean, 1837: 3, *C. viridinitida* Fleutiaux, 1892: 109 (= *Cicindela campestris campestris* Linneus, 1758); *C. circumscripta* Sturm, 1843: 3 (= *Lophyra flexuosa flexuosa* Fabricius, 1787); *C. cohaerensis* Sturm, 1843: 2, *C. kamtschatica* W. Horn, 1926 a: 172 (= *Cicindela restricta restricta* Fischer von Waldheim, 1829); *C. commixta* Dejean, 1837: 3 (= *Cicindela hybrida hybrida* Linneus, 1758); *C. danubialis* Dejean, 1822: 50, *C. atratula* Motschulsky, 1850: 2, *C. latifascia* Motschulsky, 1850: 2, *C. monterosana* Fleutiaux, 1892: 104 (= *Cicindela transversalis transversalis* Dejean, 1822); *C. elongata* Sturm, 1843: 3 (= *Cephalota hispanica* Gory, 1833); *C. hieroglyphica* Dejean, 1837: 5 (= *Habrodera nilotica nilotica* Dejean, 1825); *C. infracta* Dejean, 1822: 54, *C. conjuncta* W. Horn, 1905: 30, *C. cretica* W. Horn, 1926a: 172 (= *Cylindera trisignata trisignata* Dejean, 1822); *C. integra* Dejean, 1822: 47, *C. interrupta* Dejean, 1822: 47, *C. savranica* Dejean, 1822: 47, *C. insignis* Dejean, 1837: 3, *C. triangularis* Sturm, 1843: 2, *C. excellens* W. Horn, 1891: 14 (= *Cicindela soluta soluta* Dejean, 1822), *C. mandarinorum* W. Horn, 1926b: 370 (= *Lophyra striolata* Illiger, 1800); *C. moerens* Dejean, 1837: 4 (= *Cephalota chiloleuca* Fischer von Waldheim, 1822); *C. ocularis* W. Horn, 1926a: 172 (= *Salpingophora ruepeli* Guerin-Meneville, 1847); *C. pandana* Sturm, 1843: 2 (= *Cylindera arenaria viennensis* Schrank, 1781); *C. picta* Sturm, 1843: 3 (= *Lophyridia caucasica* Adams, 1817); *C. plicata* Motschulsky, 1850: 3 (= *Cylindera contorta contorta* Fischer von Waldheim, 1828); *C. punctum* Dejean, 1837: 4 (= *Myriochile melancholica melancholica* Fabricius, 1798); *C. ruficondylata* Sturm, 1843: 3 (= *Lophyridia fimbriata fimbriata* Dejean, 1831); *C. sexpilota* Dokhtoureff, 1887: 151 (= *Cicindela asiatica asiatica* Audouin & Brulle, 1839); *C. tibialis* Dejean, 1837: 4 (= *Cephalota besseri* Dejean, 1826); *Collyris cylindricollis* Dejean, 1837: 7 (= *Collyris longicollis* Fabricius, 1787); *C. fasciatoplicata* W. Horn, 1898: 193 (= *Neocollyris smithii* Chaudoir, 1864).

The names “*catenoides*”, “*mandarinorum*”, “*conjuncta*”, “*cretica*”, “*ocularis*”, “*kamtschatica*” were found to be originally proposed by Horn (1905; 1926 a; 1926 b). However, Wiesner (1992) erroneously attributed the authorship of the two first names to Dohrn (1872), and the others to Motschulsky, though they never used these names. The name “*hieroglyphica*” was originally used by Dejean (1837), not by Klug (1837), as Fleutiaux (1892) and Wiesner (1992) referred to.

None of these names was accompanied by a description or by indication (e.g., association with an illustration, etc.) and does not meet requirements of the Articles 11 and 12 of the Code (ICZN, 1999). They are therefore unavailable names.

*Cicindela maritima* ab. *ilgaense*, *C. hybrida* ab. *fuscomaculata*, *C. campestris* ab. *daugavensis* and *C. campestris* ab. *regalis* described by Barshevskis (1993) as infrasub-specific names are not available, according to Articles 1.3.5 and 15.2 of the Code (ICZN, 1999).

The name *Rhopaloteles* (Gemminger, Harold, 1868: 8) is a subsequent spelling of *Rhopaloteres* Guerin-Meneville, 1849. *Hypaeta* (Werner, 1992: 28) is a subsequent spelling of *Hypaetha* LeConte, 1860. According to Article 33.3 of the Code, they are incorrect subsequent spelling and do not enter into homonymy.

*Cicindela circumdata* Krynicki, 1832: 67 (non Dejean, 1822: 57) was considered as nomen nudum in the Checklist of the Ground-beetles of Russia and adjacent Lands (Kryzhanovskij et al., 1995). However, it was originally accompanied by a short diagnosis: “*tibiis rufis, dein omnio similis*” (Krynicki, 1832). According to Articles 8, 11, and 12 of the Code, the name *C. circumdata* Krynicki, 1832 is available; it is a junior synonym of *Cephalota elegans stigmatophora* Fischer von Waldheim, 1828.

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