

On the types of some Palaearctic *Harpalus* in the Muséum National d'Histoire Naturelle, Paris

О типах некоторых палеарктических *Harpalus* в Национальном музее естественной истории, Париж

В.М. Катаев
Б.М. Катаев

Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, St.Petersburg 199034 Russia.

Зоологический институт Российской Академии Наук, Университетская наб. 1, Санкт-Петербург 199034 Россия.

E-mail: blaps@zin.ru

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КЛЮЧЕВЫЕ СЛОВА: Coleoptera, Carabidae, *Harpalus*, *Pseudoophonus*, *Zabrus*, Палеарктика, новые синонимы.

ABSTRACT. Based on the examination of the type specimens, the following new synonymies are proposed: *Pseudoophonus* Motschulsky, 1844, = *Erpeinus* Motschulsky, 1844, syn.n., = *Empeirus* Motschulsky, 1844, syn.n.; *Harpalus pastor* Motschulsky, 1844, = *H. (Pardileus) tschiliensis* Schauburger, 1929, syn.n.; *H. amplicolis* Ménériés, 1848, nom. protectum, = *H. ovatus* Chaudoir, 1844, nom. oblitum, syn.n.; *H. convexus* Faldermann, 1835, = *H. quasianxius* Kataev, 1989, syn.n.; *H. xanthopus winkleri* Schauburger, 1923, nom. protectum, = *H. sulcatulus* Faldermann, 1835, nom. oblitum, syn.n.; *H. fuscipalpis* Sturm, 1818, = *H. turculus* Bates, 1878, syn.n.; *H. cyclogonus* Chaudoir, 1844, = *H. sarmaticus* Motschulsky, 1850, syn.n., = *H. cyanellus* Kraatz, 1874, syn.n., = *H. plustschewskyi* Tschitschérine, 1895, syn.n., = *H. plebejus* Tschitschérine, 1897, syn.n., = *H. massageta* Silfverberg, 1977, syn.n.; *H. optabilis* Dejean, 1829, = *H. ellipticus* Ballion, 1878, syn.n., = *H. sushkini* Lutshnik, 1933, syn.n., = *H. suchebaatori* Jedlička, 1967: 40, syn.n.; *H. uniformis* (Motschulsky, 1844), = *H. altaicus* Jedlička, 1968, syn.n., = *H. (Epiharpalus) uenci* Jedlička, 1969, syn.n.; *Zabrus morio* Ménériés, 1832, = *H. chalusi* Jedlička, 1968, syn.n. It is found that *H. oodiodes* Dejean, 1829, stat.n., originally described as a variety of *H. optabilis* Dejean, 1829, is a valid name of the species treated formerly as *H. optabilis* (non Dejean, 1829). Lectotypes are designated for *H. pastor* Motschulsky, 1844, *H. convexus* Faldermann, 1835, *H. turculus* Bates, 1878, *H. cyclogonus* Chaudoir, 1844, *H. optabilis* Dejean, 1829, *H. optabilis* var. *oodiodes* Dejean, 1829 and *Pseudoophonus uniformis* Motschulsky, 1844.

РЕЗЮМЕ. На основании изучения типовых экземпляров установлены следующие новые синонимы: *Pseudoophonus* Motschulsky, 1844, = *Erpeinus* Motschulsky, 1844, syn.n., = *Empeirus* Motschulsky, 1844, syn.n.; *Harpalus pastor* Motschulsky, 1844, = *H. (Pardileus) tschiliensis* Schauburger, 1929, syn.n.; *H. amplicolis* Ménériés, 1848, nom. protectum, = *H. ovatus* Chaudoir, 1844, nom. oblitum, syn.n.; *H. convexus* Faldermann, 1835, = *H. quasianxius* Kataev, 1989, syn.n.; *H. xanthopus winkleri* Schauburger, 1923, nom. protectum, = *H. sulcatulus* Faldermann, 1835, nom. oblitum, syn.n.; *H. fuscipalpis* Sturm, 1818, = *H. turculus* Bates, 1878, syn.n.; *H. cyclogonus* Chaudoir, 1844, = *H. sarmaticus* Motschulsky, 1850, syn.n., = *H. cyanellus* Kraatz, 1874, syn.n., = *H. plustschewskyi* Tschitschérine, 1895, syn.n., = *H. plebejus* Tschitschérine, 1897, syn.n., = *H. massageta* Silfverberg, 1977, syn.n.; *H. optabilis* Dejean, 1829, = *H. ellipticus* Ballion, 1878, syn.n., = *H. sushkini* Lutshnik, 1933, syn.n., = *H. suchebaatori* Jedlička, 1967: 40, syn.n.; *H. uniformis* (Motschulsky, 1844), = *H. altaicus* Jedlička, 1968, syn.n., = *H. (Epiharpalus) uenci* Jedlička, 1969, syn.n.; *Zabrus morio* Ménériés, 1832, = *H. chalusi* Jedlička, 1968, syn.n. It is found that *H. oodiodes* Dejean, 1829, stat.n., originally described as a variety of *H. optabilis* Dejean, 1829, is a valid name of the species treated formerly as *H. optabilis* (non Dejean, 1829). Lectotypes are designated for *H. pastor* Motschulsky, 1844, *H. convexus* Faldermann, 1835, *H. turculus* Bates, 1878, *H. cyclogonus* Chaudoir, 1844, *H. optabilis* Dejean, 1829, *H. optabilis* var. *oodiodes* Dejean, 1829 and *Pseudoophonus uniformis* Motschulsky, 1844.

amplicollis Ménériés, 1848, nom. protectum, = *H. ovatus* Chaudoir, 1844, nom. oblitum, syn.n.; *H. convexus* Faldermann, 1835, = *H. quasianxius* Kataev, 1989, syn.n.; *H. xanthopus winkleri* Schauburger, 1923, nom. protectum, = *H. sulcatulus* Faldermann, 1835, nom. oblitum, syn.n.; *H. fuscipalpis* Sturm, 1818, = *H. turculus* Bates, 1878, syn.n.; *H. cyclogonus* Chaudoir, 1844, = *H. sarmaticus* Motschulsky, 1850, syn.n., = *H. cyanellus* Kraatz, 1874, syn.n., = *H. plustschewskyi* Tschitschérine, 1895, syn.n., = *H. plebejus* Tschitschérine, 1897, syn.n., = *H. massageta* Silfverberg, 1977, syn.n.; *H. optabilis* Dejean, 1829, = *H. ellipticus* Ballion, 1878, syn.n., = *H. sushkini* Lutshnik, 1933, syn.n., = *H. suchebaatori* Jedlička, 1967: 40, syn.n.; *H. uniformis* (Motschulsky, 1844), = *H. altaicus* Jedlička, 1968, syn.n., = *H. (Epiharpalus) uenci* Jedlička, 1969, syn.n.; *Zabrus morio* Ménériés, 1832, = *H. chalusi* Jedlička, 1968, syn.n. Установлено, что название *H. oodiodes* Dejean, 1829, stat.n., первоначально предложенное как вариант *H. optabilis* Dejean, 1829, должно быть отнесено к виду, ранее неверно трактовавшемуся как *H. optabilis* (non Dejean, 1829). Обозначены лектотипы для *H. pastor* Motschulsky, 1844, *H. convexus* Faldermann, 1835, *H. turculus* Bates, 1878, *H. cyclogonus* Chaudoir, 1844, *H. optabilis* Dejean, 1829, *H. optabilis* var. *oodiodes* Dejean, 1829 и *Pseudoophonus uniformis* Motschulsky, 1844.

During my visit to the Muséum National d'Histoire Naturelle, Paris (subsequently referred to as MNHN), I was able to study the types of many taxa of Harpalini conserved there. The present paper deals with some results of this study based on the examination of the types of the Palaearctic *Harpalus*.

Harpalus pastor Motschulsky, 1844

Harpalus pastor Motschulsky, 1844: 208.

Harpalus (Pardileus) tschiliensis Schauburger, 1929: 186, syn.n.

TYPE MATERIAL. Lectotype of *H. pastor* (designated here for purposes of fixation of species name): ♂, with labels “*pastor m.*” [Motschulsky’s handwriting], “Mongolie, type Motsch.” [Chaudoir’s handwriting] (MNHN).

REMARKS. Motschulsky [1844] proposed the name *H. pastor* for the species from “la frontière de la Mongolie” which he regarded as related to *H. hottentotta* Duftschmid, 1812 (= *H. atratus* Latreille, 1804) and *H. solitarius* Dejean, 1829. Based on the features of its pronotum (“les bords latéraux sont fortement arrondis et rétrécis vers les élytres”), Motschulsky [1844, 1850] included *H. pastor* into his supraspecific taxon *Erpeinus* Motschulsky, 1844 (= *Empeirus* Motschulsky, 1844). In more recent time, Noonan [1976] designated *H. pastor* as the type species of *Erpeinus* which he treated as a synonym of *Harpalus* s. str. Unfortunately, because the location of the types of *H. pastor* was unknown, they have never been re-examined hitherto and the taxonomic position of the species described by Motschulsky was obscure [Kryzhanovskij et al., 1995].

Studying the collection of M. Chaudoir (now in MNHN), I found a male which was apparently received from V. Motschulsky (possesses his determinational label) and which seems to be from the original type series of *H. pastor* (marked as “type” by M. Chaudoir and its characters fully fit the original description). On the basis of this specimen (designated by me as a lectotype: see Type material), I can state that *H. pastor* belongs to the subgenus *Pseudoophonus* Motschulsky, 1844 and is conspecific with *H. tschiliensis* Schaubberger, 1929, the species widely distributed in East Asia (type locality: China: “Tschili-Li [= Hebei]” and “Hupe Johong”). Thus I treat *H. tschiliensis* as a junior synonym of *H. pastor* and respectively *Erpeinus* and *Empeirus* as junior synonyms of *Pseudoophonus*:

Pseudoophonus Motschulsky, 1844: 196. Type species: *Carabus ruficornis* Fabricius, 1775 [= *H. rufipes* (DeGeer, 1774)], designated by Motschulsky [1864: 208].

= *Erpeinus* Motschulsky, 1844: 197, **syn.n.** Type species: *Harpalus pastor* Motschulsky, 1844 (= *H. tschiliensis* Schaubberger, 1929, **syn.n.**), designated by Noonan [1976: 36].

= *Empeirus* Motschulsky, 1844: xi (nom. pro *Erpeinus* Motschulsky, 1844), **syn.n.**

It should be noted that the name *Erpeinus* was changed by Motschulsky [1844] on *Empeirus* because the former was originally published as a printer’s error, but Motschulsky [1850, 1864] himself in his subsequent publications and all the subsequent workers used only the name *Erpeinus*.

Harpalus amplicollis Ménétré, 1848

Harpalus amplicollis Ménétré, 1848: 38, **nom. protectum.**

Harpalus ovatus Chaudoir, 1844: 450, **nom. oblitum, syn.n.**

TYPE MATERIAL. ? Syntypes of *H. ovatus*: 3 ♂♂, with common bottom label “*ovatus* Chaud., Sibérie centr., P. Wagner” (NMNH).

REMARKS. *H. ovatus* has been described from the material collected by A. Bunge in “monts Altai et de la Mongolie chinoise” as similar to *H. servus* Duftschmid, 1812. In more recent time, both these taxa were treated without proof as conspecific, however the shape of pronotal hind angles (“magis rotundatis”) and all the other distinctive features mentioned in the original description of *H. ovatus* clearly indicate that this taxon to be identical with *H. amplicollis*, the species widely distributed across the Eurasian steppe zone and very common in Mongolia and Southern Siberia. The examination of the specimens in the former collection of Chaudoir (now in MNHN) determined by him as *H. ovatus* and probably being from the type series of this species also substantiates this conclusion. Therefore, I consider *H. ovatus* and *H. amplicol-*

lis as synonyms. In spite of the fact that the name “*amplicollis*” was proposed later than “*ovatus*”, it should be conserved as a valid for this species in accordance with the article 23.9.1. of the International Code of Zoological Nomenclature, Fourth Edition, because this name was used as a valid in more than 25 publications by more than 10 authors during last 50 years [Jedlička, 1964: 332, 1967a: 103, 1968a: 125; Kryzhanovskij, 1965a: 69, 1965b: 98, 1983: 175; Mlynář, 1971: 206; 1974: 48; Shilenkov & Kabakov, 1978: 61; Shilenkov, 1979: 52, 1994: 41, 1998: 22; Sigida, 1985: 536, 1992: 18, 1993: 23; Eidelberg et al., 1988: 65; Hieke & Wrase, 1988: 134; Kataev, 1989: 267, 1997: 138; Kryzhanovskij & Atamuradov, 1989: 25; Lafer, 1989: 192; Kirschenhofer, 1990: 3; Tilli, 1991: 191; Guéorguiev & Guéorguiev, 1995: 194; Kryzhanovskij et al., 1995: 143; Kalyuzhnaya et al., 2000: 109; etc.] and the name “*ovatus*” has never been used as a valid after 1899.

Harpalus convexus Faldermann, 1835

Harpalus convexus Faldermann, 1835: 95.

Harpalus quasianxius Kataev, 1989: 258, **syn.n.**

TYPE MATERIAL. Lectotype of *H. convexus* (designated here for purposes of fixation of species name): ♂ labelled “type de Falderm” [there is also a bottom label “*convexus* Faldermann, Persé boreale, coll. Faldermann”] (MNHN).

REMARKS. Faldermann [1835] has described *H. convexus* from the region “Persico-Armeniaca” without comparison it with any other species of this genus. Until recent times, the taxonomic position of this species was unclear [Kryzhanovskij et al., 1995]. Meanwhile, the examination of the type of *H. convexus* conserved in the former collection of M. Chaudoir (now in MNHN) revealed the identity of it to *H. quasianxius* which was described within the *anxius* group recently.

The species is widely distributed in Transcaucasia from East Turkey to West Kopetdagh.

Harpalus xanthopus winkleri Schaubberger, 1923

Harpalus Winkleri Schaubberger, 1923: 116, **nom. protectum.**

Harpalus sulcatulus Faldermann, 1835: 92, **nom. oblitum, syn.n.**

TYPE MATERIAL. Two syntypes: ♀, with labels “*sulcatulus* Fald.” and “Persé bor.” (MNHN); and ♂, with label “Caucase” (MNHN).

REMARKS. *Harpalus sulcatulus* was described from the region “Persico-Armeniaca” and more recently it was treated as a synonym of *H. luteicornis* Duftschmid, 1812 [Csiki, 1932] but the latter species seems to be absent from the Caucasus and Transcaucasia [Kryzhanovskij et al., 1995]. Indeed, the re-examination of the two syntypes of *H. sulcatulus* in the former collection of M. Chaudoir (now in MNHN) has revealed their identity to *H. xanthopus winkleri*, a Euro-Caucasian subspecies of the Eurasian *H. xanthopus* Gemminger & Harold, 1868. Thereby I consider *H. sulcatulus* to be a senior synonym of *H. xanthopus winkleri*. However, since the name “*sulcatulus*” proposed by Faldermann [1835] has never been used as a valid after 1899 and the name “*winkleri*” proposed by Schaubberger [1923] was used as a valid name in more than 25 publications by more than 10 authors during last 50 years [Hieke, 1965: 390; Kryzhanovskij, 1965a: 69; Haberman, 1968: 348; Burakowski et al., 1974: 443; Mlynář, 1974: 60, 1979: 96; Freude, 1976: 158; Mandl, 1978: 27; Budarin & Matis, 1981: 18; Sigida, 1985: 536, 1992: 16, 1993: 23; Lindroth, 1986: 358; Eidelberg et al., 1988: 65; Hieke & Wrase, 1988: 134; Aleksandro-

vitch, 1991: 69; Tilli, 1991: 191; Pulpán & Hürka, 1993: 20; Shilenkov, 1994: 45; Guéorguiev & Guéorguiev, 1995: 194; Kryzhanovskij et al., 1995: 145; Trautner & Müller-Motzfeld, 1995: viii; Aleksandrovitch et al., 1996: 12; Barševskis, 1996: 14, 1997: 27; Kalyuzhnaya et al., 2000: 109; etc.], the junior synonym “*winkleri*” should be conserved as a valid name for the taxon in question (the article 23.9.1. of the International Code of Zoological Nomenclature, Fourth Edition).

Harpalus fuscipalpis Sturm, 1818

Harpalus fuscipalpis Sturm, 1818: 66.

Harpalus turculus Bates, 1878: 714, **syn.n.**

TYPE MATERIAL. Lectotype of *H. turculus* (designated here for purposes of fixation of species name): ♂ labelled “Jarkand”, “*turculus* Bates ♂” [Bates’s handwriting] (MNHN); and paralectotype (♀): “Yarkand”, “*turculus* Bates ♀” [Bates’s handwriting] (MNHN).

REMARKS. *H. turculus* has been described from the material taken by F. Stoliczka during the Forsyth Expedition to Kashgar in 1873–74. According to Bates [1878], the types have probably been collected in Kashgaria near Yarkand, China. Based only on the original description of *H. turculus*, Schauburger [1932] treated this taxon as a geographical race of the Central Asian *H. brevicornis* Germar, 1824 distributed in Tien Shan. However, the examination of the type specimens of *H. turculus* revealed that Bates’s description is really based on the individuals of *H. fuscipalpis* Sturm.

Harpalus cyclogonus Chaudoir, 1844

Harpalus cyclogonus Chaudoir, 1844: 449.

Harpalus sarmaticus Motschulsky, 1850: 26, **syn.n.**

Harpalus cyanellus Kraatz, 1874: 300, **syn.n.**

Harpalus plustschewskiy Tschitschérine, 1895: 218, **syn.n.**

Harpalus plebejus Tschitschérine, 1897: 79 (non Gyllenhal, 1810), **syn.n.**

Harpalus massageta Silfverberg, 1977: 43 (nom. pro *H. plebejus* Tschitschérine, 1897), **syn.n.**

TYPE MATERIAL. Lectotype of *H. cyclogonus* (designated here for purposes of fixation of species name): ♂ labelled “*cyclogonus* Chaudoir” [Chaudoir’s handwriting] and “Type” (MNHN).

Holotype of *H. plebejus*: ♀ labelled “Museum Paris, Turkestan or., Chaffanjon 243-95”, “*Harpalus plebejus* m. typ. Tschitscherin det.” (MNHN).

REMARKS. *H. cyclogonus* has been described from “Sibérie” (without any additional data) and was subsequently treated as a synonym of *H. viridanus* Motschulsky, 1844 [Csiki, 1932; Kryzhanovskij et al., 1995; Lorenz, 1998]. However, the re-study of the type, which I was able to find in the former collection of M. Chaudoir (now in MNHN), has revealed that this taxon is actually conspecific with *H. sarmaticus* Motschulsky, 1850. Some of the characteristics of *H. cyclogonus* mentioned by Chaudoir [1844] in the original description, in particular the pronotal base is “obsoletius ad angulos punctulata”, also support such interpretation (in *H. viridanus*, pronotal base is impunctate). Accordingly, *H. cyanellus* Kraatz, 1874 and *H. plustschewskiy* Tschitschérine, 1885, treated formerly as synonyms of *H. sarmaticus*, should also be listed amongst the synonyms of *H. cyclogonus*. *H. plebejus* was described by Tschitschérine [1897] from a single female collected by M. Jean Chaffanjon in former Russian Turkestan during his way from Tashkent to Kuldja [now Yining, China] via “Tschimkent – Aoulié-Ata – Pischpek – Tokmak – la rive nord du lac Issik-Koul et les montagnes au nord du même lac”. Since the name “*plebejus*” was already used within the genus *Harpalus* by Gyllenhal [1910], Silfver-

berg [1977] has proposed the name *H. massageta* for the species described by Tschitschérine. Based on the examination of the holotype of *H. plebejus*, I can confirm the opinion of Lorenz [1998] that *H. massageta* (= *H. plebejus*) is conspecific with *H. sarmaticus* and, respectively, with *H. cyclogonus*.

Harpalus optabilis Dejean, 1829

Harpalus optabilis Dejean, 1829: 350.

Harpalus ellipticus Ballion, 1878: 270, **syn.n.**

Harpalus acuminatus sensu Reitter, 1900: 94 (non Motschulsky, 1844).

Harpalus (s. str.) *sushkini* Lutshnik, 1933: 22, **syn.n.**

Harpalus suchebaatori Jedlička, 1967b: 40, **syn.n.**

TYPE MATERIAL. Lectotype of *H. optabilis* (designated here for purposes of fixation of species name): ♂, with labels “♂”, “*Gebler*”, “*optabilis* Fald. in Sibiria D.” [Dejean’s handwriting] (MNHN); paralectotype (♀): “♀”, “Faldermann” (MNHN).

REMARKS. Mlynář [1974] and Kataev [1989] considered *H. optabilis* and *H. ellipticus* as two separate species, however, the examination of the type material of Dejean in the former Chaudoir’s collection (now in MNHN) revealed that both these names should be treated as synonyms. The species treated by Mlynář [1974] and Kataev [1989] as *H. optabilis* has originally been described by Dejean [1829] as *H. optabilis* var. *oodioides* (see below).

Harpalus oodioides Dejean, 1829, **stat.n.**

Harpalus optabilis var. *oodioides*, Dejean, 1829: 352.

Harpalus acuminatus Motschulsky, 1844: 222, t. 9, f. 19 (non Stephens, 1832; non Chaudoir, 1843).

Harpalus ovalis Motschulsky, 1844: 223.

Harpalus (Pheuginus) Relator Reitter, 1900: 116.

Harpalus optabilis sensu Mlynář, 1974 and sensu Kataev, 1989 (non Dejean, 1829).

TYPE MATERIAL. Lectotype of *H. optabilis* var. *oodioides* (designated here for purposes of fixation of species name): ♂, with labels “♂”, “*optabilis* var. *oodioides* Falderm. in Sibiria D. Fald.” [Dejean’s handwriting] (MNHN); paralectotype (♂), with labels “*optabilis* var.”, “Latreille” (MNHN).

REMARKS. The examination of the type material of Dejean in the former Chaudoir’s collection (now in MNHN) revealed that the species treated by Mlynář [1974] and Kataev [1989] as *H. optabilis* should be referred as *H. oodioides*. Originally, it was described as a variety of *H. optabilis* and was based on three males from “Sibéria” differing from *H. optabilis*, according to Dejean [1829], in the smaller size. The distinctive characters of both species are listed by Kataev [1989].

Harpalus uniformis (Motschulsky, 1844)

Pseudoophonus uniformis Motschulsky, 1844: 224

Harpalus (s. str.) *altaicus* Jedlička, 1968a: 141, **syn.n.**

Harpalus (Epiharpalus) uenci Jedlička, 1969: 222, **syn.n.**

TYPE MATERIAL. Lectotype of *Pseudoophonus uniformis* (designated here for purposes of fixation of species name): ♂, with labels “*uniformis* mi., Semipalatinsk” [Motschulsky’s handwriting], “Ex Musaeo Chaudoir”, “*circumpunctatus* Chaud.” [K. Daniel’s handwriting], “K. Daniel vidit. 1903” (MNHN).

REMARKS. *Pseudoophonus uniformis* has been described from “environs de Semipalatinsk”, Kazakhstan and its taxonomic position was unclear up to now [Mlynář, 1974; Kataev, 1984; Kryzhanovskij et al., 1995]. The present treatment of this species as a senior synonym of *H. altaicus* and *H. uenci* is based on the examination of the type specimen of *Pseudoophonus uniformis* conserved in MNHN (see Type material). According to Kataev [1987], *H. altaicus*, distributed in

East Kazakhstan, Nord Western China and Western Mongolia, is really only a subspecies of the Middle Asian *H. staudingeri* Jedlička, 1953. Since the name proposed by Motschulsky is oldest amongst the all available for this species, the valid names of two subspecies should be *H. uniformis uniformis* Motschulsky, 1844 and *H. uniformis staudingeri* Jedlička, 1953.

Zabrus morio Ménériés, 1832

Zabrus morio Ménériés, 1832: 125.

Harpalus chalusi Jedlička, 1968b: 993, **syn.n.**

TYPE MATERIAL. Holotype of *H. chalusi*: ♂, with labels "Iran, Firusabad (Chalus), 23-5-65", "Museum Paris, Mission Franco-Iranienne 1965", "Holotypus", "*Harpalus chalusi* sp. n., det. Ing. Jedlička", "*Zabrus morio* Men., det W. Heinz 1971" (MNHN); Paratype (labelled as "Allotypus"): ♀, same data (MNHN).

REMARKS. According to the determinational label under the holotype of *H. chalusi*, the present synonymy was already stated (but not published) by W. Heinz (Schwanfeld, Germany). *Zabrus morio* is a common species widely distributed across Transcaucasia, Iran and Middle Asia. Jedlička [1968b] has described this taxon again as a distinct species within the genus *Harpalus* from Firusabad, Chalus, Iran.

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