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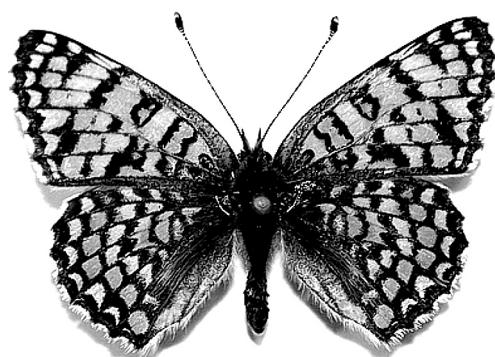


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**New species and new records of *Deliphrosoma* Reitter, 1909
(Coleoptera: Staphylinidae: Omaliinae) from Iran
with note on the taxonomic status of *Geodromicus libanicus* Coiffait,
1985**

**Новый вид и находки *Deliphrosoma* Reitter, 1909
(Coleoptera: Staphylinidae: Omaliinae) из Ирана
с примечанием о таксономическом статусе
Geodromicus libanicus Coiffait, 1985**

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Key words: *Deliphrosoma*, *Geodromicus*, Iran, Lebanon, new species, new synonymy, new records.

Ключевые слова: *Deliphrosoma*, *Geodromicus*, Иран, Ливан, новый вид, новая синонимия, новые указания.

Abstract. *Deliphrosoma frischii* sp. n. from Esfahan province of Iran is described and illustrated. New records of *D. bakhtiyariense* Zerche, 1991, for Esfahan province and *D. morvani* (Jarrige, 1971) for Alborz province are provided. One new synonymy is established: *D. libanicum* (Fauvel, 1875) = *Geodromicus libanicus* Coiffait, 1985 syn. n.

Резюме. Приведено иллюстрированное описание нового вида *Deliphrosoma frischii* sp. n. из иранской провинции Исфахан. Приведены новые указания *D. bakhtiyariense* Zerche, 1991 для провинции Исфахан и *D. morvani* (Jarrige, 1971) для провинции Альборз. Установлена новая синонимия: *D. libanicum* (Fauvel, 1875) = *Geodromicus libanicus* Coiffait, 1985 syn. n.

Introduction

Two species of the genus *Deliphrosoma* Reitter, 1909 were recorded from Iran: *D. bakhtiyariense* Zerche, 1991, described from Chaharmakhal and Bakhtiari provinces [Zerche, 1991: 326], and *D. morvani* (Jarrige, 1971) described from Chālūs, Māzandarān provinces [Jarrige, 1971: 489], and known also from Elburz Mts., Tehran province [Zerche, 1991: 327].

In this study I describe a new species and provide records for two other species of *Deliphrosoma* from Iran. As a result, now three species of the genus are known from this zoogeographically interesting territory. Additionally, new data on *D. libanicum* (Fauvel, 1875) are given.

Material and methods

The examined material is deposited in the following institutions: MNHUB – Museum für Naturkunde der Humboldt-Universität zu Berlin (J. Frisch, M. Uhlig, J. Willers); MNHNP – Muséum National d'Histoire naturelle, Paris (A. Taghavian); NMP – Národní museum, Praha (M. Fikaček).

Morphological studies were carried out using Zeiss

Discovery V8 and Zeiss Discovery V12 stereomicroscopes. A digital camera (Sony Alpha DSLR-A300) was used for the photographs. All figures were enhanced using Adobe Photoshop software. All measurements are given in millimeters.

Deliphrosoma frischii sp. n.
(Fig. 1–3)

Type material. Holotype: ♂, Iran, Esfahan province, S Semiroom: Komeh, 2810 m, 31°00'47"N / 51°35'28"E, 11.05.2007, leg. Frisch and Serri (MNHUB).

Description. Maximum width of head including eyes: 0.7; length of head (from base of labrum to neck constriction along the head midline): 0.5; length of antenna: 1.45; longitudinal length of eye: 0.2 mm; length of temple (from posterior margin of eye to neck constriction): 0.1; length of pronotum: 0.6; maximal width of pronotum: 0.95; sutural length of elytra (length of elytra from apex of scutellum to posterior margin of sutural angle): 1.7; maximal width of elytra: 1.3; width of segment IV of abdomen: 1.2; length of aedeagus: 0.8. Total length (from the base of labrum to the apex of abdomen): 3.9.

Forebody as in Fig. 1. Body brown; head and antennae dark brown; ocelli, mouthparts and femora yellowish brown; tibia and tarsi yellow. Eyes large, weakly convex, twice as long as temples. Ocelli relatively large, distance between ocelli such as the distance between ocellus and posterior margin of eye. Head is not divided from the neck by longitudinal furrow. Punctuation in anterior and frontal half of head very sparse, in posterior part of head and on ocular ridge denser, coarser, interstices as a diameter of one/two puncture. Interstices between punctures shiny, without microsculpture except for impressions between anterior margins of eye, antennal insertions and between antennae. Antenna as in Fig. 2. Length/width of antennal segments: I: 0.2 × 0.06; II: 0.1 × 0.06; III: 0.15 × 0.05; IV: 0.12 × 0.05; V: 0.14 × 0.05; VI: 0.12 × 0.06; VII–VIII: 0.12 × 0.06; IX–X: 0.1 × 0.06; XI: 0.18 × 0.8. Pronotum wide, distinctly expanded in anterior third, gradually tapering posteriorly. Medial impressions at sides of pronotum relatively deep. Surface of pronotum is covered by scattered sparse punctuation, interstices between punctures without microsculpture, shiny. Scutellum large, triangular, with small irregular scattered punctures, without microsculpture. Elytra long, twice as long

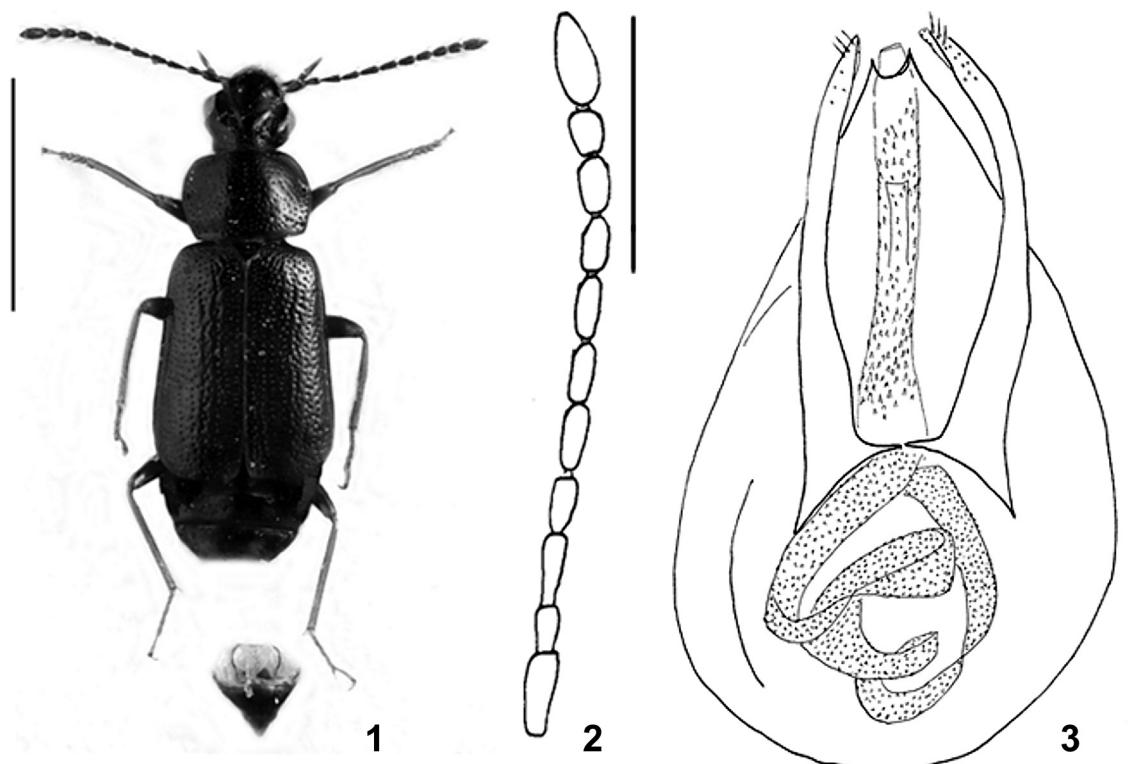


Fig. 1–3. *Deliphrosoma frischii* sp. n.: 1 – habitus, 2 – antenna, 3 – aedeagus, ventral view. Scale bar: 1 – 2 mm, 2 – 0.5 mm, 3 – 0.2 mm.
Рис. 1–3. *Deliphrosoma frischii* sp. n.: 1 – габитус, 2 – антenna, 3 – эдеагус, вентрально. Масштабная линейка: 1 – 2 мм, 2 – 0.5 мм, 3 – 0.2 мм.

as pronotum, at shoulders slightly wider than pronotum, slightly expanded posteriorly. Punctuation significantly denser and deeper than that on pronotum, interstices without microsculpture, shiny. Abdomen small, from 5th tergite tapering towards apex; 5th tergite with pair of tomentose spots; without punctuation, with isodiametric microsculpture distinct at low magnification.

Male. Aedeagus (Fig. 3) wide, abruptly narrowed towards apex; endophallus large, long, with numerous thorn-like structures, which are larger anteriorly; paramerae narrow, with three short setae at their apex.

Female unknown.

Comparative notes. Based on body size, shape of pronotum and coloration, *D. frischii* sp. n. is closely related to *D. lothari* Bordoni [Bordoni, 2000: 265], from which it differs in significantly larger eyes, in the absence of microsculpture between punctures on pronotum, and, as far as the aedeagus is concerned, in the narrower apical part of median lobe, shorter paramerae and longer endophallus.

Etymology. The species name is dedicated to my colleague Johannes Frisch (Berlin), one of the collectors of the holotype.

Deliphrosoma bakhtiyariense Zerche, 1991

Deliphrosoma bakhtiyariense Zerche, 1991: 326 (type locality: Iran Bakhtiyari, N-E du Zardeh-Kuh, 2700 m).

Material. 1♂, 1♀, Iran, Esfahan Province, S Semiroom: Komeh, 2810 m, 31°00'47"N / 51°35'28"E, 11.05.2007, leg. Frisch and Serri (MNHUB).

Distribution. Chaharmahal and Bakhtiari, Esfahan provinces of Iran. It is here reported from Esfahan province for the first time.

Deliphrosoma morvani (Jarrige, 1971)

Arpedium (*Deliphrosoma*) *morvani* Jarrige, 1971: 489 (type locality: "Iran: Manzadéran [Māzandarān], vallée de Chalus ... 1700 m").

Deliphrosoma morvani: Bordoni, 1984: 335.

Deliphrosoma morvani: Zerche, 1991: 327.

Type material examined. Holotype: ♀, [Iran, Mazandaran province] Vall[ée] de Chalus V.N. 1700 m 11.VII.68 / Iran P. Morvan / Muséum Paris Ex Collection J. Jarrige 1976 / TYPE [red label] / *Deliphrosoma morvani* Jarr. [handwritten] / *Deliphrosoma morvani* Jarr. Shavrin A. det. 2011 (MNHN).

Material. 3♂, 4♀, N. Iran, C Elburz, Kuhha-ye Tu-Chal, [h=]3600–3900 m, 18–19.[0]7.[19]70 / Loc. no. 61 Exp. Nat. Mus. Praha (NMP); 26♂, 29♀, N. Iran, C. Elburz, Kandavan, Val. [h=]2545 m, 10–11.08.1970 / Loc. No. 86 Exp. Nat. Mus. Praha (NMP); ♂, [Iran] Dizin (Gagereh) / pr. de Karaj [Alborz province], [h=]3700 m, N Iran / 4.08.[19]72, G. M[eurguet]. et G. L[edoux]. (MNHN); 1♂, same data as previous except [h=]3000 m (MNHN); 1♂, same data as previous except additional red label "ALLOTYPE" [handwritten] (MNHN).

Distribution. The species is known from the Central Elburz Mts. of Iran (Mazandaran, Alborz, Teheran provinces). It is here reported from Alborz province for the first time.

Deliphrosoma libanicum (Fauvel, 1875) (Fig. 4–5)

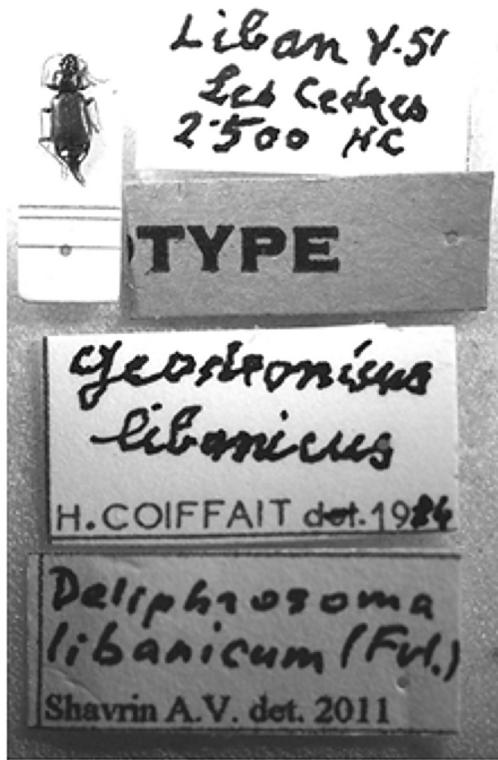
Arpedium libanicum: Fauvel, 1875: 208.

Deliphrosoma libanicum: Bordoni, 1984: 332.

Deliphrosoma libanicum: Zerche, 1991: 326.

Geodromicus libanicus: Coiffait, 1985: 210, **syn. n.**

Material. 1♀, Liban, Les Cédres, 2500 [sic! in Coiffait, 1985: 210 –



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Fig. 5–6. *Deliphrosoma libanicum* (Fauvel, 1875): 1 – holotype of *Geodromicus libanicus* Coiffait, 1985, 2 – habitus. Scale bar 2.5 mm.
Рис. 5–6. *Deliphrosoma libanicum* (Fauvel, 1875): 1 – *Geodromicus libanicus* Coiffait, 1985, голотип, 2 – габитус. Масштабная линейка: 2.5 мм.

2300] m, H[enri]C[oiffait] (handwritten) / TYPUS (red label) / *Geodromicus libanicus* (handwritten) H. Coiffait det. 1984 / *Deliphrosoma libanicum* (Fauvel, 1875) Shavrin A.V. det. 2011 (MNHN); 31 ex. [collection of H. Coiffait], 3 ex. [collection of J. Jarrige], Liban (MNHN).

Distribution. Lebanon.

Comments. The species was described by Fauvel [1875: 208] from “Djebel-Zebdani” as *Arpedium* Erichson, 1839. It was record by Bordoni [1984: 332] for “Les Cédres, Biblos, 2400 m” and by Zerche [1991: 326] for “Libanon”. Coiffait [1985: 210] described *Geodromicus libanicus* from “Les Cédres” based on a single male (Fig. 4) without a comparative analysis. The type from the Coiffait’s collection is conspecific with *D. libanicum*. Therefore, *G. libanicus* is here treated as a junior synonym of the latter species.

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