

# A new tribe record for the Darkling Beetle fauna of Iran (Coleoptera: Tenebrionidae)

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Members of the tribe Scaurini Billberg, 1820, have been systematically studied by Solier (1838), Reitter (1914), Koch (1935, 1958), Peyerimhoff (1948), Español (1954, 1960), Antoine (1953, 1954), Kocher (1958, 1964), Reymond (1956 a, 1956 b) and Labrique (1992, 1995 a, 1995 b, 1995 c, 2001, 2004, 2006). The tribe is recorded from the Mediterranean region, South Africa (Koch 1958), USA: California, Arizona and Texas as well as Mexico (Kaszab, 1982). They are recognized by lack of wings, the keeled eye, conical maxillary palp and hairless antennae with a lengthened last segment and a ridged thorax base (Reitter, 1914). Many species are lapidicolous and myrmecophilous, simulating *rigor mortis* when disturbed. Some species are troglobite (Antoine 1953).

Genus *Scaurus* Fabricius 1775 is recognized by blunt end-segment of maxillary palp and toothed femur. Males are generally bigger and more robust than females and are distinguished by stronger claviform, dentate profemur, and longer anterior legs. *S. puncticollis* (Fig. 1) is recognized by harsh and dense pronotal punctures, robust rows of punctures between elytral ribs, and joined basal parts of lateral and humeral ribs.

*Scaurus* spp. are distributed through the Mediterranean region in North Africa (Peyerimhoff 1948), Iberian Peninsula (Español 1960), Balearic archipelago (Español 1954), South France (Paulian 1946), Corse (Portevin 1934), Italy and the islands Sardinia, Sicily (Aliquo et al. 2007), Malta and Cyprus (Kaszab, 1982). *Scaurus puncticollis* Solier 1838, described from Egypt, redescribed by Allard (1882) as a new species from Mesopotamia (Iraq). This widely distributed species has been recorded from Morocco: Antoine (1953, 1954), Kocher (1958, 1964), Reymond (1956 a, 1956 b), Algeria, Tunisia, Libya (Peyerimhoff 1948), Egypt (Koch 1935), Khartoum of Sudan (Lillig & Bremer, 2002), Cyprus, Israel, Saudi Arabia (Kaszab 1982) and Arax valley of Armenia (Richter 1945).

The localities of examined specimens in Iran are as follows:

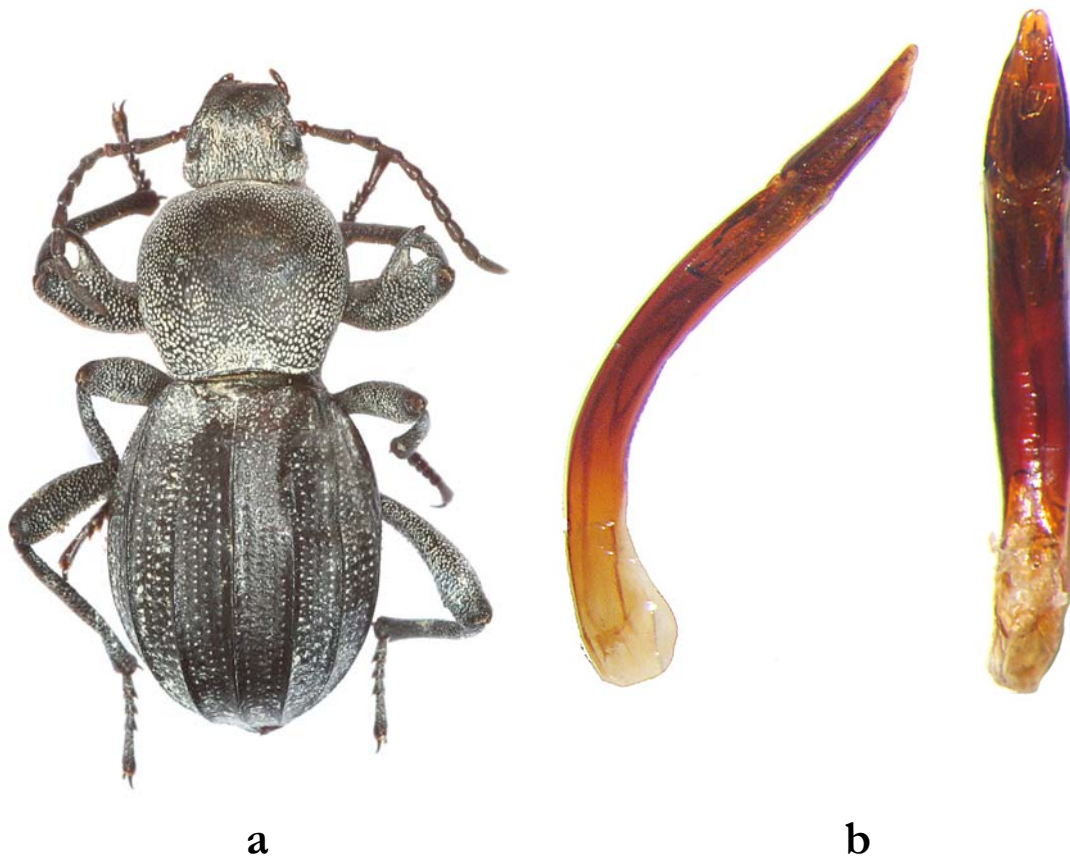
	Locality	Date	Collector	Collection
1	BUSHEHR province, 10km NW Kangan, 70m	21.IV.1977	Pazouki/Hashemi	HMIM*
2	FARS province, Firuzabad, Mehkuyeh, 1450m	11.VI.1986	Mirz/Hashemi	HMIM
3	FARS province, Jahrom	1.III.2003	N/A	HMIM
4	KHUZESTAN, Ramhormoz	13.XI.1948	Sark.	HMIM

\*Hayk Mirzayans Insect Museum

The identification of the specimens were verified by Dr. Harold Labrique, Centre de Conservation et Etude des Collections, Museum d'Histoire Naturelle, Lyon, France. All the specimens are deposited in Hayk Mirzayans Insect Museum (HMIM), Tehran, Iran. The full names of collectors mentioned in the table are as follows: 1) Hayk Mirzayans, 2) Ali Pazouki, 3) Abbas Hashemi, 4) Sarkisian.

*Scaurus puncticollis* is distributed in the mid-south and southwest regions of Iran (Fig. 2). There are also some other data from Iran (Dr. H. Labrique, pers. comm., unpublished data):

	Locality	Date	Collector	Collection
1	Island in the Orumiye Lake	1975	Amsel	Coll. R. Grim
2	Shiraz	1946	N/A	Mus. Budapest
3	Esfahan	N/A	N/A	MNCN Madrid



**FIG. 1-** a) Dorsal Habitus of male *Scaurus puncticollis* from Kangan b) Lateral (left) and ventral (right) view of Aedeagus

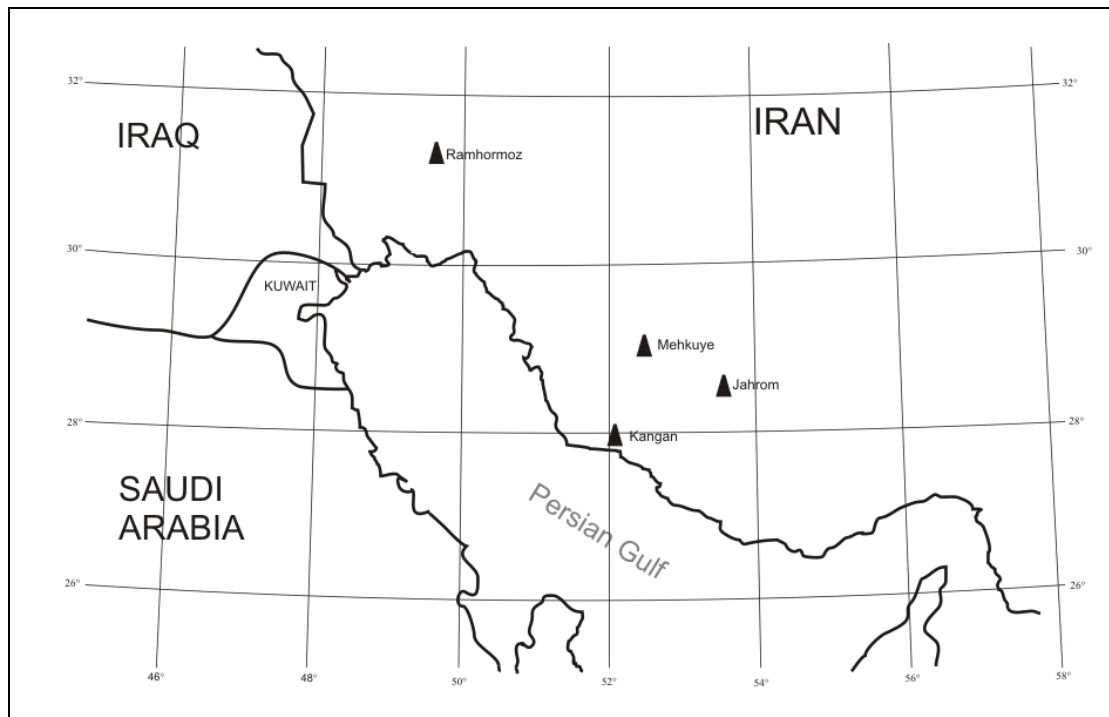


FIG 2.- Distribution of *Scaurus puncticollis* in Iran.

This species seems to be restricted to the south and western parts of Iran, but further collecting is needed to clarify distribution limits of *Scaurus puncticollis* in Iran.

**ACKNOWLEDGEMENT:** We would like to thank Dr. Ebrahim Ebrahimi, the Head of the Insect Taxonomy Research Department of the Iranian Research Institute of Plant Protection, and Mrs. Saye Serri for giving us the opportunity to examine the specimens of Hayk Mizayans Insect Museum, and Dr. Harold Labrique, Centre de Conservation et d'Etude des Collections, Museum d'Histoire Naturelle, Lyon, for his kind taxonomic support.

#### LITERATURE CITED

ALLARD, C. 1882. Communications. *Bulletin de la Société entomologique de France*, 6 (2): 87

ALIQUO, V., RASTELLI, M., RASTELLI, S. & SOLDATI, F., 2007. Coleotteri Tenebrionidi d'Italia. Darkling Beetles of Italy. CD room, Piccole Faune, Museo Civico di Storia Naturale di Carmagnola (To).

ANTOINE, M. 1953. Présentation des Coleoptères troglobies. *Comptes rendus mensuels des Séances de la Société de Sciences Naturelles et Physiques du Maroc*, 19 (4): 58-59

ANTOINE, M. 1954. Notes d'Entomologie marocaine, LX. Sur quelques captures intéressantes. Coléoptères Carabiques et Tenebrionidae. *Bulletin de la Société de Sciences Naturelles et Physiques du Maroc*. 32 (2): 199-209

BILLBERG, 1820. Enumeratio Insectorum in Museo Gustavus Johannes Billberg. *Gadelianns ed., Stockholm*. 130 p.

- ESPAÑOL, F. 1954. Los tenebriónidos (Col.) de Baleares. *Trabajos del Museo Zoológico de Barcelona, Nueva Serie, Zoología*, 1 (5): 1-96
- ESPAÑOL, F. 1960. El género *Scaurus* en España. Col. Tenebrionidae. *EOS, Revista española de Entomología*, 34 (2): 143-155
- FABRICIUS, J. I., 1775. Systema Entomologiae sistens insectorum classes, ordinis, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. *Flensburgi et Lipsiae, in Officina Libraria Kortii*, 832 p.
- KASZAB, Z., 1982. Insects of Saudi Arabia – Coleoptera: Fam. Tenebrionidae (Part 2), *Fauna of Saudi Arabia* 4: 124-243
- KOCH, C. 1935. Wissenschaftliche ergebnisse der Entomologischen expedition seiner durchlaucht des Fuersten A. Della Torre e Tasso nach Egypten und auf die Halbinsel Sinai. Tenebrionidae. Coleoptera. *Bulletin de la Société Entomologique d'Egypte*: 1-111.
- KOCH, C. 1958. Tenebrionidae of Angola. *Companhia de Diamantes de Angola. Lisboa/Museo de Dundo*, 231 p., 43 pl. 1 map
- KOCHER, L. 1958. Un nouveau *Scaurus* cavernicole du Maroc. Coleoptera, Tenebrionidae. *Comptes rendus mensuels des Séances de la Société de Sciences Naturelles et Physiques du Maroc*. 24 (8): 195-196
- KOCHER, L. 1964. *Scaurus* cavernicoles de la collection Antoine. *Bulletin de la Société de Sciences Naturelles et Physiques du Maroc*. 44: 33-36.
- LABRIQUE H. 1992 Description d'une nouvelle espèce de *Scaurus* du Maroc. Coleoptera Tenebrionidae. *Revue Française d'Entomologie*. N.S. 14 (3): 123-125
- LABRIQUE, H. 1995 a les *Scaurus* du groupe *tingitanus* Peyerimhoff. Col. Tenebrionidae. *Bulletin de la Société entomologique de France*, 100 (2): 119-126.
- LABRIQUE, H. 1995 b Etude des types de *Scaurus* F. décrits par Escalera. Col. Tenebrionidae. *Bulletin de la Société entomologique de France*, 100 (5): 511-515.
- LABRIQUE H. 1995 c A propos du *Scaurus microphthalmus* Escalera. Nouvelle Revue d'Entomologie, N. S. 12 (4): 273-279.
- LABRIQUE, H. 2001. Résultats d'une campagne entomologique dans le Maroc oriental. (Coleoptera, Tenebrionidae). *Cahiers scientifiques. Département du Rhone, Muséum Lyon* 2: 75-78.
- LABRIQUE, H. 2002. Commentaires sur les *Scaurus* décrits par Fairmaire. Coleoptera, Tenebrionidae. *Bulletin mensuel de la Société Linnéenne de Lyon*. 71 (10): 380-386.
- LABRIQUE, H. 2004. Etude des types de *Scaurus* F. décrits par Forster, Fabricius et Waltl. Coleoptera, Tenebrionidae. *Bulletin mensuel de la Société Linnéenne de Lyon* 73 (8): 333-340

- LABRIQUE, H. 2006. Cinq missions entomologiques dans le Maroc oriental. Résultats concernant la Famille des Tenebrionidae. Coleoptera. *Cahiers scientifiques. Département du Rhône, Muséum Lyon* **10**: 117-120.
- LILLIG, M., 1995. Die Gattung *Scaurus* FABRICIUS, 1775 im Sudan (Coleoptera, Tenebrionidae), *Mitteilungen der Münchner Entomologischen Gesellschaft* **85**: 51-55; München.
- LILLIG, M. & H. J. BREMER, 2002. Tenebrionidae der nördlichen Provinzen der Republik Sudan (Coleoptera: Tenebrionidae), *Coleoptera* **6**: 35-90
- PEYERIMHOFF, 1948. Etudes sur la Systématique des Coléoptères du Nord Africain. 2. Le genre *Scaurus*. *Revue française d'Entomologie*, **14**: 157-193.
- PORTEVIN, G. 1934. Histoire naturelle des Coléoptères de France, *Encyclopédie entomologique, Série A, 17, vol. 3. Heteromera, Polyphaga, ed. P. Lechevalier, Paris*, 374 p., 5 pl.
- REITTER, E. 1914. Bestimmungs-Tabellen der Tenebrioniden-Abteilung: Saurini und Sepidiini, *Deutschen Entomologischen Zeitschrift* **4**: 369-392
- REYMOND, A. 1956 a. Présentation d'Insectes nouveaux de la Faune Marocaine. *Comptes rendus des Séances mensuelles de la Société de Sciences Naturelles et Physiques du Maroc* **22** (2): 40-41
- REYMOND, A. 1956 b. Description d'un nouveau coléoptère troglophile du Moyen Atlas: *Scaurus barbuloi* n. sp. Coleoptera, Tenebrionidae. *Bulletin de la Société de Sciences Naturelles et Physiques du Maroc* **36**: 265-269
- RICHTER, A. A. 1945. A new *Scaurus* from the Arax Valley. *Proceedings of the Academy of Sciences of the Armenian SSR*. **3** (4): 103-106.
- SOLIER, J. A. 1838, Essai sur les Collaptérides (suite). *Annales de la Société entomologique de France* **7**: 159-199.



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