

Blister beetles (Coleoptera: Meloidae) of Southwest Iran

S. Serri

Insect Taxonomy Research Department, Iranian Research Institute of Plant Protection, Agricultural Research, Education and Extension Organization, Tehran, 19395-1454, Iran; e-mail: serri@iripp.ir / sserri_2000@yahoo.com

Abstract

Beetles of the family Meloidae are widespread in Iran and have several endemic species. A list of 45 meloid species belonging to 14 genera collected in Southwest Iran is given. The studied area is located west of 52° longitude and south of 32° latitude which includes Kohgiluyeh and Boyerahmad province and parts of Bushehr, Chaharmahal & Bakhtiari, Esfahan, Fars and Khuzestan provinces. *Hycleus pirata* Bologna & Turco, 2004 is here recorded for the first time from Iran. The specimens mentioned are stored in the coleoptera collection of Hayk Mirzayans Insect Museum (HMIM), Iranian Research Institute of Plant Protection (IRIPP), Tehran.

Key words: Meloidae, blister beetles, new record, Southwest Iran.

چکیده

سوسک‌های تاول‌زای جنوب غربی ایران (Coleoptera: Meloidae)

سایه سری

در این مقاله لیست سوسک‌های تاول‌زای خانواده Meloidae شامل ۴۵ گونه متعلق به ۱۴ جنس جمع‌آوری شده در جنوب غربی ایران، در محدوده غرب طول جغرافیایی ۵۲ درجه و جنوب عرض جغرافیایی ۳۲ درجه، ارائه شده است. در این میان گونه *Hycleus pirata* Bologna & Turco گزارش جدید برای فون ایران می‌باشد. تمامی نمونه‌های ذکر شده در کلکسیون قاب‌بالان موزه حشرات هایک میرزایانس موسسه تحقیقات گیاه پزشکی ایران نگهداری می‌شوند.
واژگان کلیدی: خانواده Meloidae، سوسک‌های تاول‌زا، گزارش جدید، جنوب غربی ایران

Introduction

The beetles of the family Meloidae, which are called blister beetles, are well known for their distinctive biological features such as hypermetabolic development. Meloidae is a widespread family with 120 genera and about 3000 species which are mainly distributed in the open habitats of temperate steppic, arid regions and savannas (Bologna & Di Giulio 2011: 141). Due to the presence of such habitats in Iran, meloids are widely distributed in this country. Bologna (2008: 370-412) in the catalogue of Palaearctic Coleoptera, listed 194 meloid species which among them many are endemics or have restricted distributions in Iran and its neighboring countries. The high number of meloid endemic species shows that Iran includes areas of endemism for this family which should be considered for the biodiversity conservation strategies.

The following list includes the meloid species which exist in Southwest Iran, in the area west of 52° longitude and south of 32° latitude. *Hycleus pirata* Bologna & Turco which described from United Arab Emirate (Bologna & Turco 2004: 16) is here newly recorded from Iran.

Materials and methods

The specimens were collected during 1946 to 2004 by several collectors and are stored in Hayk Mirzayans Insect Museum (HMIM), Tehran. The identification of difficult specimens were confirmed by Prof. Marco Bologna, Roma, Italy.

Results

A total of 45 species belonging to 14 genera and their collecting data are listed as follows. *Hycleus pirata* Bologna & Turco, described from United Arab Emirate, is a new record for the fauna of Iran; this record extends its known limit of distribution northwards to southern slopes of Zagros Mountains in Kohgiluyeh and Boyerahmad province of Iran.

Anisarthrocer a batesi batesi (Marseul, 1871)

Bushehr: Dashtestan: Borazjan, IV.1953.

***Cerocoma (Cerocoma) prochaskana* Reitter, 1896**

Bushehr: Bushehr, 23.IV.1953.

***Cerocoma (Mesocerocoma) scovitzii scovitzii* Faldermann, 1837**

Bushehr: Dashtestan: Borazjan, 1,9.III.1953, IV. 1953; 10 km N Dalaki, 18.IV.1977; Shabankareh to Borazjan, IV.1953;

Deylam: Siahmakan, 200m., 17.IV.1977.

Fars: Farashband: Sarmashhad, 10.IV.1953, 12.V.1967; Kazeroun, V.1953.

Khuzestan: Masjed Soleiman, 5.V.1969.

Kohgiluyeh & Boyerahmad: Gachsaran: Dogonbadan, 15.V.1949, 9.V.1967, 11.V.1968.

***Cerocoma (Metacerocoma) festiva* Faldermann, 1837**

Bushehr: Bushehr: 10 km N Dalaki, 18.IV.1977; Dashtestan: Borazjan, 9.III.1953.

Kohgiluyeh & Boyerahmad: Gachsaran: Dogonbadan, 9.V.1967, 11,15.V.1968.

Khuzestan: Genaveh road, Siahmakan, 200m. 17.IV,1977; Masjed Soleiman, 5.V.1969.

***Epicauta (Epicauta) erythrocephala* (Pallas, 1781)**

Khuzestan: Ahvaz, 12.V.1954.

***Epicauta (Epicauta) textilis* (Haag- Rutenberg, 1880)**

Khuzestan: Behbahan, 7.III.1960.

***Alosimus armeniacus* (Faldermann, 1837)**

Bushehr: Dashtestan: Borazjan, 3.III.1970.

Fars: Kazeroun: Chehchenar, 18-21.V.1076, Kotal-e Rodak, 6.III.1970.

***Alosimus smyrnensis* (Maran, 1942)**

Khuzestan: Izeh: Azhgil, 950m., 26.IV.1995; Masjed Soleiman, 16.III.1972.

***Alosimus syriacus syriacus* (Linnaeus, 1758)**

Bushehr: Borazjan: Khourmouj, II.1950; Bushehr, 13. IV.1953.

Fars: Kazeroun: Konar Takhteh, 4.III.1970.

Khuzestan: Behbahan: 2.VI.1967, 1.V.1969; Izeh: Azhgil, 950m., 26.IV.1995.

***Eolydus atripes* (Pic, 1905)**

Fars: Firouzabad: Farashband, Sarmashad, 1780m., 2.V.1967, 9.IV.1975, 25.IV.1976.

***Eolydus conspicuus* (Waterhouse, 1889)**

Bushehr: Bushehr, 12.VII.1946.

***Lydomorphus (Lydomorphus) janczyki* (Kaszab, 1959)**

Bushehr:Dashtestan: Borazjan, IV.1953, IV.1955; 10 km N Dalaki, 18.IV.1977; Shabankareh, 70m., 1977.

Kohgiluyeh & Boyerahmad:Dogonbadan, 9.V.1967, 11.V.1968.

Khuzestan:Ahvaz: Mollasani, 9.V.1975.

***Lydus praeustus* Redtenbacher, 1850**

Fars: Kazeroun, V.1953,29.V.1962.

Khuzestan: Behbahan, 28.IV.1969,3.VI.1969, 31.VII.1972; Izeh, 500m., 27.V.1973; Masjed Soleiman, 5.V.1969; Ramhormoz, 24.V.1946; Ramhormoz to Izeh, 25.V.1973.

Kohgiluyeh & Boyerahmad: Dogonbadan, 11,15.V.1968, 3.V.1969.

***Lydus tenuicollis* Reitter, 1905**

Kohgiluyeh & Boyer Ahmad: Gachsaran: Dogonbadan, 2.V.1969.

***Lydus tenuitarsis* Abeille de Perrin, 1880**

Kohgiluyeh & Boyer Ahmad: Dogonbadan, 2.V.1969.

Khuzestan: Ahvaz: Mollasani, 7.V.1972.

***Oenas crassicornis* (Illiger, 1800)**

Khuzestan: Izeh: Susan, 600m., 26.IV.1995.

***Oenas tarsensis* Abeille de Perrin, 1880**

Bushehr: Bushehr, 22.III.1957.

Khuzestan: 50km Ahvaz, 15.IV.1946; Behbahan: Kheirabad, 2.V.1968.

***Syriolytta suturifera* (Pic, 1899)**

Fars:Kazeroun, 29.V.1962.

Khuzestan: Masjed Soleiman, 5.V.1969.

***Croscherichia goryi* (Marseul, 1870)**

Bushehr: Dashtestan: Borazjan, 1.III.1953.

Kohgiluyeh & boyerahmad: Gachsaran: Dogonbadan, 9.V.1967,11,15.V.1968; Yasuj: Sisakht, Kakan, 7.VII.1949.

Khuzestan: Ahvaz: 40 km N Ahvaz, Molasani, 90m., 9.V.1975, 13.IV.1977.

***Croscherichia vigintipunctata* (Olivier, 1811)**

Bushehr: Shabankareh, 70m., 18.IV.1977.

Khuzestan: Ahvaz: Mollasani, 90m., 13.IV.1977.

***Hycleus bipunctatus* (Olivier, 1811)**

Khuzestan:Ahvaz, 10.VI.1954.

***Hycleus colligatus* (Redtenbacher, 1850)**

Fars:Sepidan: Sibkhalaj to Shiraz, 29.VI.1963; Komehr, 29.VI.1967.

***Hycleus esfandiari* (Kaszab, 1969)**

Bushehr: Dashtestan: Shabankareh, 70m., 18.IV.1977.

Kohgiluyeh & Boyerahmad: Gachsaran: Dogonbadan, 11.V.1968.

***Hycleus fuscus* (Olivier, 1811)**

Bushehr: Dashtestan: Borazjan, Khormoj, XI.1950.

Fars: Kazeroun, V.1953; Mamasani: 29.IV.1952.

Khuzestan: Ahvaz, 28.II.1954; Behbahan, 10.IV.1952, Kheirabad, 2.V.1968.

Kohgiluyeh & Boyerahmad: Yasuj, 2100m., 19.VI.1970.

***Hycleus javeti javeti* (Marseul, 1870)**

Bushehr: Dashtestan: Borazjan, 19.III.1953; Kangan: Asaluyeh, 40m., 23.IV.1977; Tangestan: Ahram, 100m., 4.V.1995.

Fars: Farrashband: Sarmashhad, 16.V.1969; Kazeroun, 12.V.1967; Mamasani, V.1951; Sepidan: Sibkhalaj to Komehr, 29.VI.1963; Kakan, 7.VIII.1949.

Khuzestan: Behbahan, 11.IV.1952, 6.V.1968, 2.V.1969, Aghajari, 1,3.V.1969, Kheirabad, 3.V.1968.

Kohgiluyeh & boyerahmad: Ghachsaran: Dogonbadan, 9.V.1967; 28.IV.1969, 8,11,15.V.1969.

***Hycleus pierrei* (Kaszab, 1968)**

Bushehr: Deylam, 1, 7, 9.V.1969; Rah-e Genaveh, Siahmakan, 200m., 17.IV.1997, 10km N Zeydan, 100m., 17.IV.1997.

Fars: Sepidan: Kakan, 7.VII.1949.

Khuzestan: Aghajari, 1, 3.V.1969; Behbahan, 1, 6.V.1967, 3.VI.1969, Kheirabad, 2.V.1968.

***Hycleus pirata* Bologna & Turco, 2004**

Khuzestan: Behbahan: 3.VI.1969.

Kohkiluyeh & Boyerahmad: Dogonbadan: 9.V.1967, 15.V.1968.

***Hycleus scabiosae scabiosae* (Olivier, 1811)**

Fars: Sepidan: Margun river, 2040m., 9.VII.2004.

Khuzestan: Ahvaz: 16.VI.1946; Bandar-e Mahshahr: Takhtekhane, 1350- 1700m.; Behbahan: Kheir abad, 2.V.1968; Izeh: Susan, 500m., 27.V.1973.

***Hycleus schah schah* (Reiche, 1865)**

Bushehr: Deylam: Bandar-e Deylam, 9.V.1969.

Khuzestan: Genaveh Rd., 10km N Zeydan, 100m., 17.IV.1977.

Kohgiluyeh & Boyerahmad: Dogonbadan, 11.V.1968.

***Hycleus trianguliferus trianguliferus* (Heyden, 1883)**

Bushehr: Bushehr, 10m., 30.V.2001.

Fars: Kazeroun: Gav Koshsk, 5.V.1975.

Khuzestan: Dezful: Shahiun, Pamenar, 450m., 6.V.2001.

***Hycleus zebraeus* (Marsul, 1870)**

Fars: Kazeroun: Douzin, V.1953; Sepidan: Sibkhalaj, 23.VI.1967.

Khuzestan: Behbahan: 28.IV.1952, 19,22.V.1952, 11.VI.1952; Khorramshahr, 23.V.1951.

***Mylabris (Calydabris) allousei* (Kaszab, 1960)**

Fars: Kazeroun: Cheshmenari, 900m., 6.V.1.1985; Mamasani: V.1951

Khuzestan: Aghajari, 1969; Behbahan: 6.V.1967; Genaveh road, Siahmakan, 200m., 17.IV.1977; Ramhormoz: Hafgel to Izeh, 25.V.1973.

Mylabris (Chalcabris) coeruleomaculata Redtenbacher, 1843

Khuzestan: Ahvaz: Ramin, 1947.

Mylabris (Chrysabris) hemprichi Klug, 1845

Bushehr: Bushehr: 10.X.1950; Dashtestan: Borazjan, Khourmouj, II.1950.

Mylabris (Eumylabris) calida (Pallas, 1782)

Bushehr: Bushehr, 10m., 30.V.2001; Deylam: 9.V.1969.

Chaharmahal & Bakhtiari: Yasuj: Sisakht: Falard, 3-4.VI.1973.

Esfahan: Semirom, 1800m., 22.V.2000.

Fars: Farashband: Sarmashhad, 2.V.1967, Sepidan:Sibkhalaj, 29.VI.1963, 20, 23.VI.1967.

Kohgiluyeh & Boyerahmad: Dogonbadan, 9.V.1967, 8.V.1968, 3.V.1969; Dasht-e Khoshk, 2560m., 9.VII.2004; Yasuj: Kakan, 23.VII.1949, 16.VI.1967.

Khuzestan:Behbahan: 10.IV.1952, 27-28.IV.1952, 6.V.1967, 28.V.1967, 7-8.V.1968, 28-30.IV.1969, 1-2.V.1969, 29.V.1969, 3.VI.1969,31.VII.1972; Tang-e Tekab, 27.IV.1952; Ahvaz: Mollasani, 9.V.1975; Hamidieh, 9.IV.1948; Masjed Soleyman, 5.V.1969; Aghajari, 3.V.1969; Hafttappah, 10.V.1972; Genaveh: 10km N Zeydan, 100m., 17.IV.1977; Siahmakan, 200m., 17.IV.1977.

Mylabris (Eumylabris) cincta Olivier, 1795

Bushehr: Bushehr: VII.1949, 10km N Dalaki, 18.IV.1977.

Chaharmahal & Bakhtiari: Farsan: Chelgerd, Sheikhalikaan, 2600m., 2.VII.2004.

Esfahan: Semirom, 1800m., 22.V.2000.

Fars: Sepidan: Sibkhalaj, , 29.VI.1963, 23.VI.1967; Kazeroun, 12.V.1967.

Khuzestan: Ahvaz: Mollasani, 10.VI.1954, 22.VI.1954, 9.V.1975; Behbahan,10- 11.VI.1952, 28.IV.1952, 1-6.V.1967; Aghajari, 5.V.1969.

Kohgiluyeh & Boyerahmad: Dogonbadan, 8,11.V.1968, 3,9.V.1969; Yasuj: Kakan, 24.VII.1949, 7.VIII.1949.

Mylabris (Eumylabris) groschkei Kaszab, 1957

Bushehr:Bushehr: 10 km N Dalaki, 18.IV.1977; Deylam, 14.VI.1952, 7, 9.V.1969.

Fars:Kazeroun, 12.V.1969; Cheshmenari, 900m., 6.V.1985; Mamasani, V.1951.

Khuzestan: Abadan, 1700m., 8.VI.1986; Behbahan, 28. IV. 1952, 9.VI.1952, 22.V.1956, 6.V.1967, 3.V.1968, 30. IV. 1969, 2.V.1969, 3.VI.1969; Genaveh road, 10 km N Zeydun, 100m, 17.IV.1977, Kheirabad, 2.V. 1968; Ramhormoz: Haftgol to Izeh, 25.V.1973.

Kohgiluyeh & Boyerahmad: Gachsaran: Dogonbadan, 20.IV.1952, 22.V.1956,8,11.V.1968, 3.V.1969; Yasuj: Kakan, 12.II.1949, 7.VII.1949.

Mylabris (Mylabris) apicenigra Soumacov, 1915

Fars: Sepidan: Kakan, 16.VI.1967.

***Mylabris (Mylabris) mediorientalis* Pan & Bologna, 2014**

Fars: Kazeroun, V.1953.

Khuzestan: Ahvaz: Mollasani, V.1965; Behbahan, 2.V.1969.

***Mylabris (Mylabris) quadripunctata quadripunctata* (Linnaeus, 1767)**

Chaharmahal & Bakhtiari: Ardal: Samsami, 1850m., 4.VII.2004.

Fars: Farrashband: Sarmashhad, 16.V.1969; Kazeroun, V.1953, 29.V.1962; Sepidan: Sibkhalaj, 20,23.VI.1967; Margun river, 2040m., 9.VIII.2004.

Khuzestan: Ahvaz: 16.VI.1949, 29.IV.1952; Behbahan, 8.V.1968.

Kohgiluyeh & Boyerahmad: Yasuj: Kakan, 23.VIII.1949, 16.VI.1967, 26.V.1969; Sisakht, Falard, 3-4.VI.1973.

***Mylabris (Mylabris) variabilis* (Pallas, 1781)**

Khuzestan: Behbahan, 24.III.1958.

***Mylabris (Zitunabris) interrupta* Olivier, 1801**

Bushehr: Bushehr, 12. VII.1946.

Kohgiluyeh & Boyerahmad: Yasuj: Kakan, 23.VII.1949, 24.VIII.1949, 15.VI.1953.

***Meloe (Lampromeloe) cavensis* Petagna, 1819**

Khuzestan: Ahvaz, 17.VIII.1954.

***Meloe (Lampromeloe) variegatus variegatus* Donovan, 1793**

Kohgiluyeh & Boyerahmad: Tolegorgi, 2000m., 4.V.1985.

***Nemognatha chrysomelina* (Fabricius, 1775)**

Chaharmahal & Bakhtian: Ardal: Chahartagh, 218m., 5.VII.2004.

Fars: Sepidan: Margoun river, 2040m., 9.VII.2004.

Khuzestan: Abadan: Haye, 8.V.2002; Ramhormoz: Ahvaz road, km 63, 71.V.2002.

References

- Bologna, M. A.** (2008). New nomenclatorial and taxonomic acts, and comments, Meloidae; family Meloidae Gyllenhal, 1810. in: Löbl I, Smetana A (Eds) *Catalogue of Palaearctic Coleoptera*. 5. Apollo Books, Stenstrup 45–49, 370–412.
- Bologna, M. A. & Turco, F.** (2007). The Meloidae (Coleoptera) of the United Arab Emirates with an updated Arabian checklist. *Zootaxa* 1625, 1-33.
- Bologna, M. A. & Di Giulio, A.** (2011). Biological and morphological adaptations in the pre-imaginal phases of the beetle family Meloidae. *Atti Accademia Nazionale Italiana di Entomologia* LIX: 141-152.