

## A SYNOPSIS ON TURKISH *CLYTRA* LAICARTING, 1781 (COLEOPTERA: CHRYSOMELIDAE)

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ABSTRACT: The Turkish *Clytra* species are presented and evaluated with zoogeographical remarks. Many new faunistic data are given in the present text. The female of *Clytra aliena* Weise, 1897 is described for the first time.

KEY WORDS: *Clytra*, Clytrinae, Chrysomelidae, Coleoptera, Turkey

The subfamily Clytrinae contains 1500 species of 62 genera belonging to six tribes in the world, it consists of 38 genera in one tribe (Clytini) in the Palearctic region (Seeno & Wilcox, 1982).

The known works on Turkish Clytrinae begun in second half of 1800s. Among the main works;

Firstly, some new species were described by Heyden (1886), Weise (1897, 1900) and Reineck (1908). Then, Nizamlıoğlu (1957, 1961) gave some information on hosts, damages and descriptions of *Labidostomis propinqua*, *Clytra novempunctata*, *Smaragdina unipunctata* and *Smaragdina limbata*. Later, important contributions to Turkish Clytrinae fauna were made by Medvedev (1970, 1975), Tomov & Gruev (1975), Gruev & Tomov (1979). Consequently, the information of Turkish Clytrinae have been improved by Kasap (1980, 1982, 1987a,b) on Clytrinae species in Central Anatolian Region of Turkey mostly, Aydın & Kışmalı (1990) on Clytrinae species in Aegean Region of Turkey, Aslan & Özbek (1998) on Clytrinae species in Erzurum, Erzincan and Artvin provinces in NE Turkey, Gök (2003) on Clytrinae species in Isparta provinces (Dedegöl Mts.) in Western Mediterranean Region of Turkey and Maican (2007) on some Clytrinae species in Denizli, İzmir, Çanakkale and Edirne provinces in W and NW Turkey until now.

According to Kasap (1987a, b) and Warchalowski (2003), Clytrinae is represented in seven genera in Turkey as *Labidostomis*, *Tituboea*, *Lachnaia*, *Clytra*, *Smaragdina*, *Cheilotoma*, *Coptocephala*.

### ***CLYTRA* Laicharting, 1781**

= *Clythra* Fabricius, 1798

= *Hirtoclytra* Medvedev, 1961

Type sp.: *Chrysomela quadripunctata* Linnaeus, 1758

The genus can be easily distinguished from related genera by following diagnostic characters:

Posterior angles of pronotum not elevated, situated in the plane of humeral part of elytra. Anterior coxa separated by a projection of prosternum. Legs robust, fore legs in male as long or only insignificantly longer than in female. Background

coloration of elytra yellow or yellowish-red. Elytra always with black humeral spot, in some species other parts of elytra with or without black spots. Length of body above 6-7 mm.

The genus has three subgenera as the nominotypical subgenus *Clytra* Laicharting, 1781; *Clytraria* Semenov, 1903 and *Ovoclytra* Medvedev, 1961. All subgenera are represented in Turkey.

According to Lopatin (1984), genus consists of about 50 species distributed in the Old World. In the Palaearctic Region 16 species are known. According to Warchalowski (2003), genus is represented by seven species in Europe as *Clytra (Clytra) espanoli* Daccordi & Petitpierre, 1977; *Clytra (Clytra) laeviuscula* Ratzeburg, 1837; *Clytra (Clytra) quadripunctata* (Linnaeus, 1758); *Clytra (Clytraria) atraphaxidis* (Pallas, 1773); *Clytra (Clytraria) novempunctata* Olivier, 1808; *Clytra (Clytraria) valeriana* Ménétries, 1832 and *Clytra (Ovoclytra) binominata* Monrós, 1953. However, he mentioned the species *Clytra (Clytra) appendicina* Lacordaire, 1848 as an aberration of *C. quadripunctata*.

Kasap (1980) stated eleven species for Turkey in his catalogue. He also gave the species *Clytra appendicina* Lacordaire, 1848 as a subspecies of *C. quadripunctata*. He did not mention *Clytra ovata* (Lacordaire, 1848) for Turkey. So Turkish *Clytra* species are as given follows.

The present materials were collected by various collectors (mostly by present authors) from various parts of Turkey between 1940 and 2009. These materials were preserved in Gazi University (Ankara) and Nazife Tuatay Plant Protection Museum (Ankara).

### ***CLYTRA* Laicharting, 1781**

#### **Subgen. *CLYTRA* Laicharting, 1781**

#### ***Clytra aliena* Weise, 1897**

**Material examined:** Kastamonu: Küre, 1040 m, 18.06.2003, 1 female; Ankara: Beypazarı, Beypazarı-Kıbrısck road 5<sup>th</sup> km, 823 m, N 42 56 E 31 62, 14.06.2009, 2 males.

This species is endemic to Turkey. It is distributed only in CN Turkey. The present material is the first record for Kastamonu province. Weise (1897) described this species from Ankara on the base of one male specimen (holotype). Later Kasap (1987b) recorded one male specimen from Sivas province. He redescribed it with figures of aedeagus. So the female has not been known until now. The female is described for the first time with the present work.

**Description of female:** Like the male. In both sexes, each elytron has only a humeral black spot. Length of body is shorter than the male (males: 9.0-9.1 mm, female: 8.3 mm). Spermatheca is as figure 1.

**Records in Turkey:** Ankara as the type locality (Weise, 1897; Clavareau, 1913; Winkler 1924-1932; Medvedev, 1961); Sivas: Yıldızeli-Tokat road (Kasap, 1987b).

**Range:** Turkey: Ankara (Weise, 1897; Clavareau, 1913; Winkler 1924-1932; Medvedev, 1961; Kasap, 1987b); Turkey (Warchalowski, 2003; Borowiec, 2009).

**Chorotype:** Anatolian.

**Occurrence:** Very rare.

***Clytra appendicina* Lacordaire, 1848**

**Material examined:** Ankara: Çubuk II Dam, 2 specimens; Ankara: Kızılcahamam, Yukarı Çanlı, 1400 m, 14.06.1997, 1 specimen; Ankara: Beypazarı, Kıbrısık-Beypazarı road, Ahlatlık pass, 1102 m, N 42 24 E 31 59, 09.07.2009, 1 specimen.

This species was regarded by some authors as a subspecies or aberration of *C. quadripunctata*. Since Medvedev (1961) placed it as a subspecies of *C. quadripunctata* due to similarity of aedeagal forms. It probably is distributed in N Turkey. The present material is the first record for Kızılcahamam, Çubuk and Beypazarı (Ankara).

**Records in Turkey:** Turkey (Lefevre, 1872); Ankara: Karagöl (Tomov & Gruev, 1975); Ankara: Karagöl, Atatürk Orman Çiftliği, Lalahan, Ayaş, Beynam (Kasap, 1987b).

**Range:** S and southern parts of C Europe (Winkler, 1924-1932); Central Asia (Lopatin, 1984); S and southern parts of C Europe, Anatolia, Central Asia (Borowiec, 2009).

**Chorotype:** Centralasiatic-European.

**Occurrence:** Not common.

***Clytra laeviuscula* (Ratzeburg, 1837)**

= *quadripunctata* Laicharting, 1781 (nec Linnaeus, 1758)

= *fasciata* Ratzeburg, 1837 (nec Fabricius, 1801)

= ab. *connexa* Fricken, 1888

= ab. *antistita* Weise, 1889

= ab. *biinterrupta* Reitter, 1912

**Material examined:** Çankırı: Ilgaz, 20.07.1984, leg. Y. Özdemir, 3 specimens; Ankara: Kızılcahamam, Işık Mt., 24.06.1993, 1 specimen, 01.07.1994, 1 specimen, 02.07.1994, 10 specimens; Ankara: Kızılcahamam, Yukarı Çanlı, 1300 m, 19.08.1997, 2 specimens; Ankara: Kızılcahamam, Bel peak, 1550 m, 21.08.1997, 6 specimens; Ankara: 2000, 3 specimens; Sakarya: Adapazarı, Poyrazlar village, 12.07.1993, leg. A. Kalkandelen, 1 specimen; Isparta: Eğirdir, 29.06.1995, Wild herb, leg. Y. Özdemir, 2 specimens; Ankara: Haymana, 18.06.1999, on *Triticum*, leg. M. Özdemir, 1 specimen; Karabük: Bartın-Safranbolu road, Soğuksu place, 21.07.2003, 1 specimen, Safranbolu, Gürleyik, 21.07.2003, 1 specimen, Safranbolu, Bulak village, 22.07.2003, 1 specimen.

This species is distributed rather widely in Turkey. The present materials are the first record for Çankırı, Karabük and Sakarya provinces.

**Records in Turkey:** Denizli: Sarayköy (Sahlberg, 1913); Ankara: Hasanoğlan, Kayseri: Erciyes Mt. (Tomov & Gruev, 1975); Afyon, Kayseri: Bünyan, Konya: Kızılören (Kasap, 1987b); İzmir: Bornova (Aydın & Kısmalı, 1990); Erzincan: Yollarüstü, Erzurum: Aşkale, Oltu, Tortum, Uzundere (Aslan & Özbek, 1998); Isparta: Aksu (Gök, 2003).

**Range:** Europe, Siberia, Japan (Clavareau, 1913, Winkler, 1924-1932; Medvedev, 1961); European part of Russia, Crimea, Northern Caucasus, Transcaucasia, Southwestern Siberia, Altai, Northern and Eastern Kazakhstan, Eastern Kirgizia, Northern Tadzhikistan, Central and Southern Europe, Asia Minor, Northwestern China, Eastern Afghanistan (Lopatin, 1984); Distributed from France and

England to Altai Range, reported also, perhaps erroneously, from Morocco (Warchalowski, 2003); W Palaearctic Region from France to Altai Mts (Borowiec, 2009).

**Chorotype:** Sibero-European or Palaearctic.

**Occurrence:** Not common.

***Clytra quadripunctata* (Linnaeus, 1758)**

= *quadrisignata* Märkel, 1842

= ab. *dissimilis* Weise, 1889

= ab. *puberula* Weise, 1898

This species probably is distributed only in N Turkey. It has been recorded only by Tomov & Gruev, 1975 from Turkey (Erzurum prov.).

**Records in Turkey:** Erzurum: İspir, İkizdere (Tomov & Gruev, 1975); Erzurum: Olur, Uzundere (Aslan & Özbek, 1998);

**Range:** Europe, Siberia (Winkler, 1924-1932; Medvedev, 1961); Russia, Central Asia, Europe, Asia Minor, N Iran, Mongolia, NE Afghanistan (Lopatin, 1984); W Palaearctic, from N Spain and Ireland to Mongolia (Warchalowski, 2003; Borowiec, 2009).

**Chorotype:** Sibero-European.

**Occurrence:** Not common.

**Subgen. *CLYTRARIA* Semenov, 1903**

= *Clytrella* Medvedev, 1961

***Clytra atraphaxidis* (Pallas, 1773)**

= ssp. *atraphaxidis* Pallas, 1773 (*Chrysomela*)

= ssp. *maculifrons* Zoubokoff, 1833

= ab. *punctata* Weise, 1890

= ab. *ashabadensis* Branczik, 1890

= ab. *conjuncta* Heyden, 1891

= ab. *delagrangi* Pic, 1896

= ab. *nigromaculata* Pic, 1897

= ab. *deficiens* Weise, 1900

= ab. *croceicollis* Weise, 1900

= ab. *marginicollis* Weise, 1900

= ab. *lacordairei* Weise, 1900

= ab. *angulata* Weise, 1900

= ab. *vulgaris* Weise, 1900

= ab. *flexuosa* Weise, 1900

= ab. *defecta* Jacobson, 1901

= ab. *sierrana* Daniel, 1903

= ab. *quinquemaculata* Pic, 1920

***Clytra atraphaxidis atraphaxidis* (Pallas, 1773)**

**Material examined:** Denizli: 15.06.1964, leg. N. Canbulat, 2 specimens; Ankara: Kızılcahamam, Keçikaya hill, 1630 m, 24.06.1987, 1 specimen; Ankara: Kızılcahamam, Soğuksu National Park, 1300 m, 08.08.1990, 1 specimen; Nevşehir: Avanos, 1050 m, 23.07.1992, 2 specimens; Niğde: Ferteke, 08.06.1997, 1 specimen; Eskişehir: Central, Çavlum village, 23.06.1997, on *Malus*, leg. Y. Özdemir, 1 specimen; Niğde: Bor, Bor-Ankara road, 1100 m, 13.07.1997, 3 specimens; Ankara: Ayaş, Başbereket, 13.07.1997, 1 specimen; Niğde: Bor, Bor-Altunhisar road, Pınarbaşı, 1100 m, 17.07.1997, 1 specimen; Niğde: Bor, Balci

village, 17.07.1997, 1 specimen; Ankara: 2000, 2 specimens; Niğde: exit of Ulukışla, 1350 m, 29.05.2001, 4 specimens; İçel: Mut- Silifke road, 100 m, 01.06.2001, 1 specimen; Niğde: exit of Ulukışla-Pozantı, 1290 m, 24.06.2001, 1 specimen; İçel: Mersin-Gözne road, return of Çukurkeklik, 275 m, 25.06.2001, 2 specimens; İçel: Silifke-Mut road, 30 m, 26.06.2001, 1 specimen; İçel: Silifke-Mut road 50<sup>th</sup> km, 145 m, 26.06.2001, 2 specimens; İçel: Mut-Karaman road, return of Değirmenbaşı, 1370 m, 26.06.2001, 1 specimen; Kastamonu: exit of Tosya, Zincirli Kuyu village, 650 m, 16.06.2003, 1 specimen; Ankara: Kıbrıscık-Beypazarı road, Ahlattık pass, 1102 m, N 42 24 E 31 59, 09.07.2009, 1 specimen.

This species is represented by the nominotypical subspecies in Turkey. It is distributed rather widely in Turkey. The present materials are the first record for İçel, Kastamonu, Nevşehir and Niğde provinces.

**Records in Turkey:** Konya: Akşehir (Bodemeyer, 1900; Ganglbauer, 1905); Anatolia (Sahlberg, 1913); Hatay: Akbez as ab. *delagrangae* Pic, 1896 (Winkler, 1924-1932); Denizli, İzmir: Bergama (Tuatay et al., 1972); Tokat: Turhal, Eskişehir, İzmir: Cumaovası, Bornova (Gül-Zümreoğlu, 1972); Ankara: Ayaş, Dikmen, Edirne: Keşan (Tomov & Gruev, 1975); Ankara: Beytepe, Ayaş, İzmir: Tire (Kasap, 1987b); Aydın: Central, Söke, İzmir: Central, Bornova, Foça, Karaburun-Mordoğan, Kemalpaşa, Ödemiş-Bozdağ, Seferihisar, Manisa (Aydın & Kısmalı, 1990); Artvin: Ardanuç, Ferhatlı, Erzincan, Erzurum: Dutçu, Pasinler (Aslan & Özbek, 1998); Isparta: Aksu (Gök, 2003).

**Range:** S Europe, Hungary, Siberia, Turkey, Syria (Clavareau, 1913; Medvedev, 1961); Europe, Asia Minor, European Russia, Iran (Winkler, 1924-1932); S European part of Russia, Crimea, Caucasus, N and E Kazakhstan, Central Asia, S Europe, Asia Minor, NW Asia, W Iran (ssp. *atrapphaxidis* s. str.) and C and N Kazakhstan, Central Asia, N Iran (ssp. *maculifrons* Zoubokoff, 1833) (Lopatin, 1984); From Spain, Corsica, Sicily, S Italy and Greece to Central Asia, Mongolia and Korea (Warchalowski, 2003); S Europe, Asia Minor, C Asia, Mongolia, Korea (Borowiec, 2009).

**Chorotype:** Sibero-European.

**Occurrence:** Not common.

### ***Clytra novempunctata* Olivier, 1808**

= *globulosa* Lefevre, 1872

= *elata* Weise, 1881

= *persica* Pic, 1920

= ab. *aleppensis* Redtenbacher, 1843

= ab. *signicollis* Weise, 1900

= ab. *juncta* Pic, 1920

**Material examined:** Ankara: 3 specimens; İzmir: 25.05.1961, leg. O. Değirmenci, 4 specimens; Ankara: Bağlum, 07.06.1961, leg. N. Tuatay, 1 specimen; Kızılcahamam, 31.05.1962, leg. Y. Sürmeli, 6 specimens; 12.06.1964, leg. Y. Sürmeli, 3 specimens; Çubuk, Karagöl, 09.06.1966, leg. Y. Sürmeli, 1 specimen; Mogan Lake, 27.06.1980, 1 specimen; Beypazarı, İnönü plateau, 21.06.1994, leg. Y. Özdemir, 1 specimen; Konya: 08.06.1962, leg. N. Karabıyık, 1 specimen; Yozgat: 27.06.1962, leg. Y. Sürmeli, 3 specimens; Tokat: Zile, 19.06.1964, leg. A. Demirtola, 1 specimen; Gaziantep: 30.04.1966, leg. A. Demirtola, 3 specimens; Mardin: 09.05.1966, leg. A. Demirtola, 1 specimen; Siirt: 20.05.1966, leg. Y. Sürmeli, 1 specimen; Elazığ: 14.05.1968, leg. Y. Sürmeli, 1 specimen, Central, 07.06.1972, leg. Y. Dörtbudak, 5 specimens; Tunceli: Pertek,

07.06.1972, leg. Y. Dörtbudak, 1 specimen; Hatay: Dörtöyl, 05.06.1975, leg. S. Kornoşor, 1 specimen; Burdur: Ağlasun, 26.06.1995, on *Medicago*, leg. Y. Özdemir, 1 specimen; Isparta: Eğirdir, Semirkent, 29.06.1995, leg. Y. Özdemir, 1 specimen; Niğde: Yenihisar, 05.06.1996, leg. A. Kalkandelen, 1 specimen; Karaman: 17.05.2001, on *Juglans*, leg. M. Özdemir, 1 specimen; Bolu: between Gerede–Kızılcahamam, 1405 m, 17.05.2003, 1 specimen; Sinop: Sinop-Zonguldak road, 43 km to Ayancık, 25 m, 17.06.2003, 1 specimen; Bartın: Ulus, kalecik village, 21.07.2003, 1 specimen; Ankara: Kıbrısçık-Bey pazarı road, Ahlattık pass, 1102 m, N 42 24 E 31 59, 09.07.2009, 3 specimens; Ankara: Bey pazarı İnözü Valley, 725 m, N 40 11 E 31 54, 26.05.2009, 1 specimen, 13.06.2009, 1 specimen; Ankara: Bey pazarı, entry of Sabagöz Valley, 710 m, N 40 14 E 31 54, 12.05.2008, 2 specimens, 17.06.2009, 1 specimen; Ankara: Bey pazarı, Kıbrısçık road, İnözü 1 bridge env., 1050 m, N 40 16 E 31 54, 17.06.2009, 1 specimen; Ankara: Bey pazarı-Kıbrısçık road 5<sup>th</sup> km, 823 m, N 42 56 E 31 62, 14. 06. 2009, 1 specimen. **As *Clytra novempunctata* ab. *aleppensis***: Bolu: Bolu-Gerede road, Susuz Kınık village, 720 m, 17.05.2003, 1 specimen; Gerede–Karabük road, Dikmen and Sungur villages, 1450 m, 14.06.2003, 1 specimen; Karabük: Hanköy, Aşağıbağ district, 575 m, 16.05.2003, 1 specimen; Osmaniye: Bahçe, 551 m, N 37 11 E 36 33, 18.05.2006, 2 specimens, Akyar village, 151 m, N 37 02 E 36 11, 17.05.2006, 1 specimen, Yarpuz road, Orman store env., 273 m, N 37 05 E 36 19, 18.05.2006, 1 specimen, Boğaz Plateau, 713 m, N 37 04 E 36 22, 18.05.2006, 1 specimen, Haraz Plateau, 713 m, N 37 04 E 36 21, 18.05.2006, 1 specimen, Zorkun, Çiftmazı Kent forest, N 37 01 E 36 17, 786 m, 02.06.2007, 4 specimens, Bahçe, Kabacalı village, N 37 11 E 36 36, 722 m, 02.06.2007, 3 specimens, Düziçi, Yarbaş, N 37 11 E 36 25, 376 m, 02.06.2007, 2 specimens, Düziçi, Gökçay, N 37 20 E 36 27, 600 m, 1 specimen; Hatay: Dörtöyl-Erzin, Kuzuculu, 188 m, N 36 54 E 36 11, 17.08.2006, 1 specimen, Yukarı İkinci village, 178 m, N 36 15 E 36 07, 27.06.2006, 1 specimen; Gaziantep: Kuşçubeli pass, 1134 m, N 37 06 E 36 36, 19.05.2006, 1 specimen, Nurdağı, N 37 10 E 36 42, 814 m, 17.05.2007, 7 specimens; **As *Clytra novempunctata* ab. *juncta***: Bolu: Entry of Gerede highway, 1400 m, 14.06.2003, 1 specimen; Karabük: exit of Safranbolu, Kastamonu road, 520 m, 15.06.2003, 1 specimen; Kastamonu: Pınarbaşı, Uzunçam village, 655 m, 18.06.2003, 1 specimen; Osmaniye: Küllü village, 1707 m, N 36 57 E 36 24, 25.06.2006, 1 specimen, Küllü-İslahiye road, Hınzırlı Plateau, 1620 m, N 36 57 E 36 25, 25.06.2006, 1 specimen; **As *Clytra novempunctata* ab. *signicollis***: Osmaniye: Bahçe, Horu stream env., N 37 10 E 36 27, 562 m, 17.05.2007, 1 specimen.

This species is distributed widely in Turkey. The present materials are the first record for Bartın, Bolu, Burdur, Elazığ, Gaziantep, Hatay, Karaman, Karabük, Kastamonu, Mardin, Osmaniye, Siirt, Sinop and Tunceli provinces.

**Records in Turkey:** Konya: Ereğli (Bodemeyer, 1900); Kayseri (Ganglbauer, 1905); Tokat: Turhal, İzmir: Bornova, Manisa: Beydere (Gül-Zümreoğlu, 1972); Amasya, Ankara: Karagöl, Giresun: Balaban Mts., İçel: Gözne, Niğde: Çiftahan (Tomov & Gruev, 1975); Ankara: Dodurga, Bağlum, Temelli, Bayındır, Lalahan, Ayaş, Bala-Beynam, Kalecik, Kızılcahamam, Çubuk-Karagöl, Çorum: Sungurlu, Koparan pass, Kayseri: Bünyan, Yılanlı Mt., Konya: Central, Kızılören, Çumra, Seydişehir, Hadım-Taşkent, Niğde: Bor, Sivas: Yıldızeli, Yozgat: Central (Kasap, 1987); Aydın: Çine-Madran, Karacasu, Kuşadası, Sultanhisar, Denizli: Central, Acıpayam, İzmir: Central, Bayındır, Bornova, Çeşme, Foça, Kemalpaşa, Ödemiş, Manisa: Central-Sultanyayla, Demirci, Muğla: Central, Bodrum, Fethiye,

Köyceğiz, Milas, Yatağan, Uşak: Central, Banaz (Aydın & Kısmalı, 1990); Artvin: Borçka, Erzurum: Şenkaya, Abdurrahman Gazi, Uzundere (Aslan & Özbek, 1998); Isparta: Aksu, Yenişarbademli-Yakaköy arası (Gök, 2003).

**Range:** North Africa, Europe, Asia Minor, Syria, Iran (Clavareau, 1913); Europe, Mediterranean (Winkler, 1924-1932); Transcaucasia, Dagestan, Turkmenia: Ashkhabad, Greece, Yugoslavia, Asia Minor, Northwest Asia, Iraq, Northwestern Iran, Northeastern Africa (Lopatin, 1984); Distributed in SE Europe (E Balkan, Romania, S Ukraine, S Russia), Caucasian countries, Asia Minor and Central Asia. Known also from Sicily (Warchalowski, 2003); Romania, Balkans, S Ukraine, S Russia, Caucasus, Asia Minor, C Asia. Recorded also from Sicily (Borowiec, 2009).

**Chorotype:** Centralasiatic-Mediterranean or W-Palaearctic.

**Occurrence:** Not common.

### ***Clytra valeriana* (Menetries, 1832)**

- = ssp. *valeriana* Menetries, 1832
- = ssp. *tetrastigma* Schmidt, 1841
- = ssp. *taurica* Medvedev, 1961
- = ssp. *iranica* Medvedev, 1961
- = ssp. *opacipennis* Lopatin, 1962
- = *valeriana* Lacordaire, 1848
- = ab. *tetrastigma* Schmidt, 1841
- = ab. *dissimilithorax* Desbrocher, 1870
- = ab. *drurei* Pic, 1920
- = ab. *subjuncta* Pic, 1920

### ***Clytra valeriana valeriana* (Menetries, 1832)**

**Material examined:** İzmir: Selçuk, 15.06.1964, leg. O. Özar, 1 specimen; Ankara: Kızılcahamam, 03.08.1983, leg. S. Bilgetekin, 1 specimen; Yozgat: Kazankaya, 28.07.1987, leg. Y. Özdemir, 1 specimen; Sorgun, 27.09.1994, *Triticum*, leg. P. Erdoğan, 1 specimen; Niğde: 13.06.1990, leg. A. Kalkandelen, 1 specimen; Ankara: Kızılcahamam, Işık Mt., 01.07.1994, 1 specimen; Eskişehir: Seyitgazi, 25.06.1997, leg. Y. Özdemir, 1 specimen; Niğde: Niğde-Bor road, 17.06.1996, 2 specimens, Çamardı, 29.06.1996, 1 specimen; Aksaray: Belisırma, 1280 m, 03.06.1997, 4 specimens; Niğde: Bor, Üstünkaya, 07.06.1997, 1 specimen; Ankara: Şereflikoçhisar-Evren road, İbrahimbeyli, 1200 m, 21.06.1997, 1 specimen; Niğde: 12 km to Ulukışla, 1280 m, 23.06.1997, 2 specimens, E of Melendiz Mt., between Değirmenli-Ovacık, 1500 m, 24.06.1997, 5 specimens, Çamardı, Bademdere-Elmalı, 1750 m, 24.06.1997, 2 specimens, entry of Kayseri-Niğde, 1420 m, 24.06.1997, 1 specimen, Çamardı, Bulduruş pass, 1720 m, 24.06.1997, 2 specimens; Nevşehir: Tilköy, 1270 m, 25.06.1997, 3 specimens; Kayseri: Yeşilhisar, Güzelöz, 1320 m, 25.06.1997, 1 specimen; Niğde: between Araplı-Höyük, 1360 m, 26.06.1997, 10 specimens, return of Niğde-Nevşehir road, 1380 m, 26.06.1997, 1 specimen, Çiftlik road, Melendiz, Güllü Mt., 1580 m, 27.06.1997, 15 specimens; Aksaray: Güzelyurt, 1700 m, 27.06.1997, 2 specimens; Ankara: Kızılcahamam, Güvem, 1080 m, 01.07.1997, 1 specimen; Niğde: Gebere Dam, 02.07.1997, 2 specimens; Ankara: Kızılcahamam, Yenimahalle, 30.06.1993, 1 specimen, 05.07.1997, 3 specimens, Kızılcahamam, Yukarı Çanlı, 1300 m, 11.07.1997, 1 specimen; Ankara: Beypazarı, İnözü Valley, 725 m, N 40 11 E 31 54, 26.05.2009, 1 specimen; Ankara: 1 specimen; Turkey: without exact locality, 1 specimen.

This species is represented by the nominotypical subspecies in Turkey. It is distributed rather widely in Turkey. The present materials are the first record for Aksaray, Eskişehir, Niğde and Yozgat provinces.

**Records in Turkey:** Konya: Akşehir (Bodemeyer, 1900); İzmir: Selçuk (Tuatay et al., 1972); Ankara: Kavaklıdere, Sivas: Şerefiye (Tomov & Gruev, 1975); Ankara: Beytepe, Bağlum, Temelli, Lalahan, Beynam, Kızılcahamam, Nevşehir: Gülşehir, Kayseri: Bünyan, Sivas: Central, Konya: Central, Akşehir (Kasap, 1987); Aydın: Karacasu, İzmir: Central-Gümüldür, Bornova, Kemalpaşa, Seferihisar, Manisa: Salihli, Uşak: Banaz (Aydın & Kismalı, 1990); Erzincan, Erzurum: Palandöken, Pasinler, Söğütlü, Şenkaya, Tortum, Pehlivanlı, Dutçu (Aslan & Özbek, 1998).

**Range:** S Russia, Iran, Turkey, Greece (Clavareau, 1913); S European Russia, E Mediterranean (Winkler, 1924-1932); S Ukraine, Rostov Region, Stavropol Region, Caucasus, Transcaucasia, possibly also NW Kazakhstan, Balkan Peninsula (Lopatin, 1984); Distributed in Greece, Serbia, Bulgaria, Caucasian countries, Middle East and Central Asia. Known also from Sicily. Ssp. *tetrastigma* from Greece and Bulgaria, ssp. *taurica* from Crimea, ssp. *iranica* from Central Asia, ssp. *opacipennis* from Caucasus (Warchalowski, 2003); Balkans, Asia Minor, Caucasus, Crimea, C Asia. Recorded also from Sicily (Borowiec, 2009).

**Chorotype:** Centralasiatic-Mediterranean.

**Occurrence:** Not common.

#### **Subgen. *OVOCLYTRA* Medvedev, 1961**

##### ***Clytra binominata* Monrós, 1953**

= *laticollis* Weise, 1889 (nec Olivier, 1808)

This species probably is distributed only in W and S Turkey. Firstly, it was recorded by Aydın & Kismalı (1990) for Turkey. However, Kasap (1980) stated one specimen from Denizli (Central), one specimen from Denizli (Tavas) in 1969, one specimen from Adana and one specimen from İzmir in Zoologische Staatssammlung, München (MZS) in his unpublished work as *Clytra laticollis*.

**Records in Turkey:** Adana: Çah Mt., İçel: Alata, Erdemli (Tomov & Gruev, 1975); İzmir: Central, Bornova, Kemalpaşa, Manisa: Kula as *Clytra laticollis* (Aydın & Kismalı, 1990); Isparta (Şen, 2007).

**Range:** Rhodos (Clavareau, 1913); Greece, Rhodos, S Anatolia (Warchalowski, 2003; Borowiec, 2009).

**Chorotype:** E-Mediterranean.

**Occurrence:** Not common.

##### ***Clytra bodemeyeri* Weise, 1900**

= ssp. *bodemeyeri* Weise, 1900

= ssp. *arabica* Medvedev, 1961

##### ***Clytra bodemeyeri bodemeyeri* Weise, 1900**

**Material examined:** Ankara: Hacıkadın, 21.06.1940, 1 specimen; Kırşehir: Özbağ, 27.05.1992, leg. Y. Özdemir, 1 specimen; Niğde: 5 km to Ulukışla, 1400 m, 23.06.1997, 4 specimens; Osmaniye: Akyar village, 151 m, N 37 02 E 36 11, 17.05.2006, 2 specimens, entry of Yarpuz, 930 m, N 37 03 E 36 25, 18.05.2006, 2 specimens, Kaypak-Yarpuz road, N 37 04 E 36 26, 1194 m, 03.06.2007, 3 specimens, Bahçe, Kızlaç, N 37 10 E 36 37, 761 m, 19.05.2007, 1 specimen;



Gaziantep: Nurdağı, N 37 10 E 36 42, 814 m, 17.05.2007, 3 specimens, Nurdağı, Gökçedere village, N 37 09 E 36 43, 496 m, 17.05.2007, 2 specimens, Fevzipaşa, N 37 06 E 36 39, 1126 m, 18.05.2007, 1 specimen; Hatay: Erzin-Kaplıcalar place, 123 m, N 36 57 E 36 15, 17.05.2006, 4 specimens, Akbez, N 36 51 E 36 32, 527 m, 18.05.2007, 1 specimen; Ankara: Beypazarı-Kıbrısçık road 5<sup>th</sup> km, 823 m, N 42 56 E 31 62, 14. 06. 2009, 1 female.

This species probably is represented by nominotypical subspecies in Turkey. It was described by Weise (1900) from Konya province. So the western phenotype is the nominotypical subspecies. Eastern phenotype was described by Medvedev (1961) from Mesopotamia as the subspecies *Clytra bodemeyeri arabica*. This species is distributed rather widely in S Turkey. The present materials are the first record for Gaziantep and Osmaniye provinces.

**Records in Turkey:** İçel: Bolkar Mts., Maden-Burna, Konya: Halkapınar (Zanapa) (Bodemeyer, 1900); Hatay, İçel: Gözne, Niğde: Çiftahan (Tomov & Gruev, 1975); Ankara: Beytepe, Bağlum, Dodurga, Lalahan, Beynam, Kalecik-Akyurt, Konya: Central, Kızılören, Zanapa, Bereketli (Kasap, 1987b); Erzurum: Aşkale, Uzundere (Aslan & Özbek, 1998).

**Range:** Asia Minor, Cyprus (Clavareau, 1913); Asia Minor (Winkler, 1924-1932); Distributed in Asia Minor (ssp. *bodemeyeri* s. str.) and Mesopotamia (ssp. *arabica* Medvedev, 1961) (Warchalowski, 2003); Asia Minor, Iraq (Borowiec, 2009).

**Chorotype:** E-Mediterranean or SW-Asiatic.

**Occurrence:** Not common.

### ***Clytra cingulata* Weise, 1898**

This interesting and rare species has been known only from the type locality (Kurdistan = Anatolia) for Turkey. Kasap (1980) stated one specimen from Kahramanmaraş (Taurus) in 1928 in Zoologische Staatssammlung, München (MZS) in his unpublished work.

**Records in Turkey:** Kurdistan (Anadolu) (Weise, 1898).

**Range:** Kurdistan (Anatolia) (Winkler, 1924-1932); Anatolia and Middle East (Warchalowski, 2003; Borowiec, 2009).

**Chorotype:** SW-Asiatic.

**Occurrence:** Very rare.

### ***Clytra nigrocincta* (Lacordaire, 1848)**

= ab. *cyprica* Pic, 1918

= ab. *semireducta* Pic, 1918

= ab. *multipunctata* Pic, 1920

= ab. *subinterrupta* Pic, 1920

= ab. *bagdatensis* Pic, 1920

Kasap (1980) stated one specimen from İzmir in Zoologische Staatssammlung, München (MZS) in his unpublished work. It probably is distributed rather widely in Turkey. However, it has been reported only from İstanbul and İzmir provinces for Turkey

**Records in Turkey:** İstanbul (Lefevre, 1872).

**Range:** Asia Minor, Cyprus, Syria, Caucasus (Clavareau, 1913; Winkler, 1924-1932); E Turkey, Syria, Iraq, Transcaucasia, N Iran (Warchalowski, 2003; Borowiec, 2009).

**Chorotype:** SW-Asiatic.

**Occurrence:** Not common.

### ***Clytra ovata* (Lacordaire, 1848)**

This species has not been recorded from any exact locality for Turkey. Also, Kasap (1980) did not mention this species for Turkey in his catalogue. However, Warchalowski (2003) and Borowiec (2009) stated it for S Turkey.

**Records in Turkey:** Absent.

**Range:** Cyprus, Near East, S Turkey (Warchalowski, 2003; Borowiec, 2009).

**Chorotype:** E-Mediterranean.

**Occurrence:** Not common.

### ***Clytra rotundata* Medvedev, 1961**

It was described by Medvedev (1961) from Cyprus. Kasap (1980) stated two specimens that were collected by E. Şekeroğlu and Ç. Şengonca in 1978 from Adana (Balcalı) in his collection in his unpublished work. So it is distributed only in S Turkey and Cyprus.

**Records in Turkey:** Turkey (Medvedev, 1961).

**Range:** Cyprus, Turkey (Medvedev, 1961); Cyprus (Warchalowski, 2003; Borowiec, 2009).

**Chorotype:** E-Mediterranean.

**Occurrence:** Not common.

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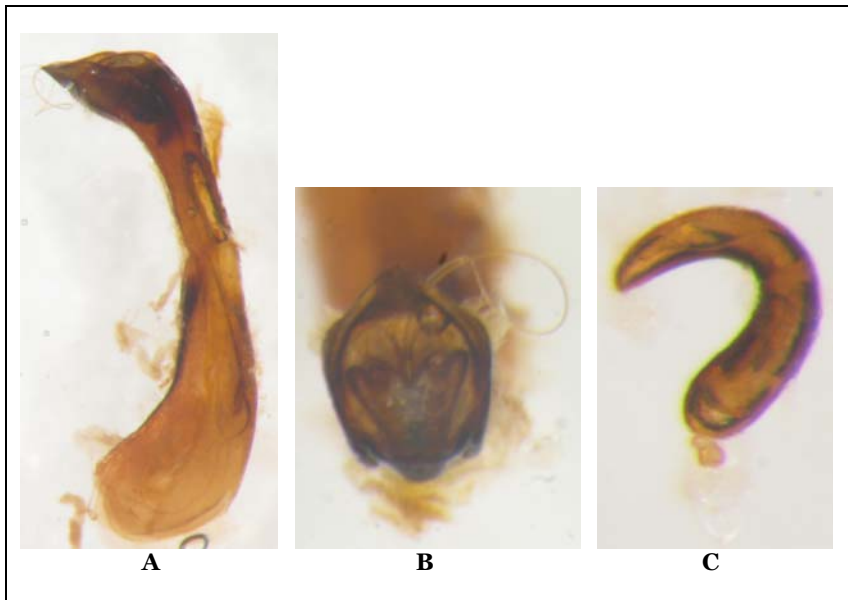


Figure 1. *Clytra aliena* Weise, 1897 A. Aedeagus in lateral view, B. Apex of aedeagus in dorsal view, C. Spermatheca in lateral view.