

## FIRST RECORDS OF SOME LEAFBEETLES FOR MEDITERRANEAN REGION IN TURKEY AND SOUTH TURKEY (COLEOPTERA: CHRYSOMELIDAE)

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**ABSTRACT:** In this work, specimens of the family Chrysomelidae that were collected from various parts of the Amanos Mountains in 2006-2007 were evaluated faunistically and zoogeographically. As a result of this, a total of 10 species were determined as the first records for Mediterranean region in Turkey and 6 of them were also determined as the first records for the whole South Turkey.

**KEY WORDS:** Chrysomelidae, Turkey

The members of Chrysomelidae feed on plant materials (e.g., leaves, flowers etc.). For this reason, some of Chrysomelidae are regarded as pests in terms of agriculture and forestry. So Chrysomelidae data are very important for all countries.

Following from this aim, new Chrysomelidae data for Turkey are presented in this work. The examined specimens were collected from various parts of the Amanos Mountains (in Mediterranean region in Turkey) in 2006-2007. As a result of this, ten species were determined as the first records for Mediterranean region in Turkey such as *Crioceris asparagi* (Linnaeus, 1758), *Tituboea macropus* (Illiger, 1800), *Smaragdina concolor* (Fabricius, 1792), *Chrysolina chalcites* (Germar, 1824), *Chrysolina orientalis* (Olivier, 1807), *Prasocuris junci* (Brahm, 1790), *Galeruca pomonae* (Scopoli, 1763), *Calomicrus lividus* (Joannis, 1866), *Altica quercetorum* Foudras, 1860 and *Psylliodes hyoscyami* (Linnaeus, 1758). Six species among these were also determined as the first records for whole South Turkey such as *Crioceris asparagi* (Linnaeus, 1758), *Smaragdina concolor* (Fabricius, 1792), *Galeruca pomonae* (Scopoli, 1763), *Calomicrus lividus* (Joannis, 1866), *Altica quercetorum* Foudras, 1860 and *Psylliodes hyoscyami* (Linnaeus, 1758).

### Subfamily CRIOCERINAE

#### ***Crioceris asparagi* (Linnaeus, 1758)**

**Material examined:** **Osmaniye:** Zorkun road, Çiftmazı place, 223 m, N 37 01 E 36 17, 20.05.2006, 1 specimen. **Distribution in Turkey:** İzmir (Gül-Zümreoğlu, 1972); Amasya (Tomov & Gruev, 1975); Kars (Aslan, 2000); Aksaray, Kayseri, Karabük (Özdikmen & Turgut, 2008). **Range:** From Iberian Peninsula to Central Asia, introduced also to N America, Argentina and Tanzania (Warchalowski, 2003). **Chorotype:** Mainly Holarctic. **Remarks:** The species has three subspecies (incl. nominative subspecies) in the world. It is represented only by the subspecies *C. asparagi maculipes* (Gebler, 1834) in Turkey. Until now, it has been reported only from N, W and C Turkey. It is reported for the first time both for Mediterranean region in Turkey and whole S Turkey.

### Subfamily CLYTRINAE

#### ***Tituboea macropus* (Illiger, 1800)**

**Material examined:** **Osmaniye:** Küllü village, 1707 m, N 36 57 E 36 24, 25.06.2006, 3 specimens, Hasanbeyli, Kalecikli village, 587 m, N 37 09 E 36 27, 19.05.2006, 7 specimens, Zorkun-Karınca-Hassa road, Küllü plateau, 1603 m, N 36 57 E 36 21, 25.06.2006, 1 specimen, Bahçe, 551 m, N 37 11 E 36 33, 18.05.2006, 1 specimen, Hınzırlı plateau, Kalaycıbatıran place, 1465 m, N 36 58 E 36 27, 25.06.2006, 1 specimen; **Hatay:** Entry of Belen, Çakallı, 652 m, N 36 28 E 36 13, 19.05.2006, 1 specimen, Erzincan, Gökgöl, N 36 57 E 36 17, 600 m, 04.06.2007, 5 specimens; **Kilis:** Hassa-Kilis road, Hisar village, 16.05.2006, 2 specimens. **Distribution in Turkey:** Konya, Ankara, Sivas, Kars (Kasap, 1987); Aegean region (Aydın, 1988); Konya, Aydın, Çanakkale, İzmir, Muğla (Aydın & Kışmalı, 1990); Artvin, Erzurum, Konya, Aydın, Çanakkale, İzmir, Muğla (Aslan & Özbek, 1998). **Range:** European Russia, Caucasus,

Turkmenia, Uzbekistan, S and C Europe, Asia Minor, Syria, W Iran (Lopatin, 1977); Distributed in SE Europe and Asia Minor, from Austria and Albania to basin of Volga and Caucasian countries (Warchalowski, 2003). **Chorotype:** Turano-Mediterranean. **Remarks:** Until now, it has been reported only from N, W, NE and C Turkey. It is reported for the first time for the Mediterranean region in Turkey.

### *Smaragdina concolor* (Fabricius, 1792)

**Material examined:** **Hatay:** Antakya, Saint Pierre church env., N 16 12 E 36 10, 210 m, 30.03.2007, 5 specimens, Harbiye-Yayladağı road, N 36 07 E 36 08, 275 m, 30.03.2007, 5 specimens, Harbiye, N 36 07 E 36 08, 273 m, 30.03.2007, 1 specimen, Alahan castle, N 36 19 E 36 11, 147 m, 30.03.2007, 3 specimens, Yayladağı, N 35 55 E 36 06, 787 m, 20.04.2007, 1 specimen, Aktepe, N 36 39 E 36 27, 207 m, 18.05.2007, 1 specimen, Akbez, N 36 50 E 36 32, 464 m, 22.04.2007, 1 specimen; **Gaziantep:** Nurdağı, N 37 10 E 36 42, 814 m, 17.05.2007, 2 specimens, Fevzipaşa, Türkbağçe village, N 37 04 E 36 37, 521 m, 18.05.2007, 2 specimens, Nurdağı, Gökçedere village, N 37 09 E 36 43, 496 m, 17.05.2007, 1 specimen; **Osmaniye:** Hasanbeyli, N 37 07 E 36 32, 711 m, 21.04.2007, 1 specimen, 31.03.2007, 2 specimens. **Distribution in Turkey:** İstanbul (Lefevre, 1872); Bursa, Ankara, Samsun, Tokat (Medvedev, 1970); İstanbul, Samsun (Tomov & Gruев, 1975); Gümüşhane, Bursa (Gruev & Tomov, 1979); İstanbul, Bursa, Samsun, Tokat, Gümüşhane, Ankara, Trabzon, Kastamonu (Kasap, 1987); Asia Minor (Medvedev, 1990). **Range:** Spain, France, Italy, Bulgaria, Romania and Asia Minor (Warchalowski, 2003). **Chorotype:** S-European. **Remarks:** The species has three subspecies (incl. nominative subspecies) in the world. It is represented only by the subspecies *S. concolor hypocrita* (Lacordaire, 1848) in Turkey. Until now, it has been reported only from N, NW and North of C Turkey. It is reported for the first time both for the Mediterranean region in Turkey and the whole S Turkey.

### Subfamily CHRYSOMELINAE

#### *Chrysolina chalcites* (Germar, 1824)

**Material examined:** **Osmaniye:** Zorkun road, Çiftmazı place, 223 m, N 37 01 E 36 17, 20.05.2006, 1 specimen, Fakuşağı village, 655 m, N 36 01 E 36 12, 19.05.2006, 1 specimen, 145 m, N 37 02 E 36 13, 09.04.2006, 1 specimen, Boğaz plateau, 713 m, N 37 04 E 36 22, 18.05.2006, 1 specimen; **Gaziantep:** Kilis-Gaziantep road, turn of Oğuzeli, 16.05.2006, 3 specimens. **Distribution in Turkey:** Sakarya, Konya (Bodemeyer, 1900); Denizli, Bursa (Bechyne, 1952); Anadolu (Gruev, 1973); Amasya, Samsun (Tomov & Gruев, 1975); Asia Minor (Warchalowski, 1976); Amasya, Samsun, İzmir, İstanbul, Diyarbakır (ex Aslan & Özbek, 1999); Artvin, Erzurum (Aslan & Özbek, 1999). **Range:** SE Europe, Caucasus, Asia Minor, Near East and Central Asia (Warchalowski, 2003). **Chorotype:** Turano-Mediterranean. **Remarks:** Until now, it has been reported only from N, W, C and SE Turkey. It is reported for the first time for the Mediterranean region in Turkey.

#### *Chrysolina orientalis* (Olivier, 1807)

**Material examined:** **Hatay:** Dörtöyl, Kuzuculu, 119 m, N 36 54 E 36 13, 07.04.2006, 2 specimens, Entry of Belen, Çakallı, 652 m, N 36 28 E 36 13, 19.05.2006, 1 specimen; **Osmaniye:** Kalecik-Hasanbeyli road, 679 m, N 37 09 E 36 28, 19.05.2006, 2 specimens. **Distribution in Turkey:** Amasya (Weise, 1884); Konya (Bodemeyer, 1900); İstanbul, Bilecik, Bursa, Afyon (Bechyne, 1952); Asia Minor, S Turkey (Warchalowski, 1976, 2003). **Range:** Greece, Turkey, Lebanon, Israel (Warchalowski, 2003). **Chorotype:** Turano-Mediterranean. **Remarks:** The species has three subspecies (incl. nominative subspecies) in the world. It is represented by two subspecies, the nominative subspecies and *C. orientalis thraeissa* Bechyne, 1950 in Turkey. The examined materials in this work belong to the subspecies *C. orientalis thraeissa* Bechyne, 1950. Until now, it has been reported only from N, NW and C Turkey. It is reported for the first time for the Mediterranean region in Turkey.

#### *Prasocuris junci* (Brahm, 1790)

**Material examined:** **Gaziantep:** Nurdağı, Gökçedere village, 496 m, N 37 09 55 E 36 43 10, 17.05.2007, 1 specimen; **Osmaniye:** Bahçe, Kabacalı village, 722m, N 37 11 57 E 36 36 05, 02.06.2007, 1 specimen. **Distribution in Turkey:** Gümüşhane, Samsun (Tomov & Gruев, 1975); Asia Minor (Warchalowski, 1976); Afyon, Ankara, Eskişehir, Kayseri, Kırşehir, Konya, Muğla, Nevşehir, Sivas, Yozgat, Samsun, Erzurum (Aslan & Özbek, 1999). **Range:** W, C and S Europe, S Turkey, Azerbaijan (Warchalowski, 2003). **Chorotype:** W-Palaeartic. **Remarks:** Until now, it has been reported only from N, W and C Turkey. It is reported for the first time both for the Mediterranean region in Turkey.

### Subfamily GALERUCINAE

#### *Galeruca pomonae* (Scopoli, 1763)

**Material examined:** **Osmaniye:** Entry of Yarpuz, 930 m, N 37 03 E 36 25, 18.05.2006, 17 specimens, Zorkun, Karıncalı-Hassa road, Küllüü plateau, 1603 m, N 36 57 E 36 21, 25.06.2006, 8 specimens, Zorkun road, Karacalar village, 381 m, N 37 02 E 36 16, 24.06.2006, 1 specimen, Küllüü-İslahiye road, Hınzırılı plateau, 1620 m, N 36 57 E 36 25, 25.06.2006, 1 specimen. **Distribution in Turkey:** Konya (Bodemeyer, 1900); Çankırı (Tomov & Gruев, 1975); Asia Minor (Warchalowski, 1976); Erzurum (Aslan, 1998); Rize (Aslan et al., 2000). **Range:** From Portugal and Ireland to Central Asia, introduced also in N America (Warchalowski, 2003). **Chorotype:** W-Palaeartic + Nearctic. **Remarks:** Until now, it has

been reported only from N and C Turkey. It is reported for the first time both for the Mediterranean region in Turkey and the whole S Turkey.

***Calomicrus lividus* (Joannis, 1866)**

**Material examined:** **Osmaniye:** Kuşçubeli pass, 1134 m, N 37 06 675 E 36 36 525, 19.05.2006, 19 specimens. **Distribution in Turkey:** Asia Minor (Laboissière, 1912; Warchalowski, 1976); Erzurum (Aslan, 1998); Erzincan, Kars (Aslan et al., 2000). **Range:** E Turkey, Syria and Lebanon (Warchalowski, 2003). **Chorotype:** E-Mediterranean (Palaestino-Taurian). **Remarks:** Until now, it has been reported only from NE Turkey. It is reported for the first time both for the Mediterranean region in Turkey and the whole S Turkey.

**Subfamily ALTICINAE**

***Altica quercetorum* Foudras, 1860**

**Material examined:** **Osmaniye:** Bıçakçı village, 293 m, N 37 09 35 E 36 17 22, 21.04.2007, 1 specimen. **Distribution in Turkey:** Turkey (Acatay, 1963); İstanbul (Tomov & Gruev, 1975); Asia Minor (Warchalowski, 1976). **Range:** In Europe from N Spain, Netherlands and S Norway to basin of Volga, also in Asia Minor, Caucasus (Warchalowski, 2003). **Chorotype:** European. **Remarks:** Until now, it has been reported only from N Turkey. It is reported for the first time both for the Mediterranean region in Turkey and the whole S Turkey.

***Psylliodes hyoscyami* (Linnaeus, 1758)**

**Material examined:** **Hatay:** Akbez, 527 m, N 36 51 10 E 36 32 13, 18.05.2007, 1 specimen. **Osmaniye:** Düziçi, Yarbaş, 376 m, N 37 11 01 E 36 25 04, 02.06.2007, 1 specimen. **Distribution in Turkey:** Asia Minor (Warchalowski, 1976); Bayburt, Erzurum (Aslan et al., 1999). **Range:** Transpalaeartic species, from British Isles to Russian Far East and in European part of Mediterranean area (Warchalowski, 2003). **Chorotype:** Sibero-European. **Remarks:** Until now, it has been reported only from N Turkey. It is reported for the first time both for the Mediterranean region in Turkey and the whole S Turkey.

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