# A CONFIRMATION ON THE PRESENCE OF FOUR LITTLE KNOWN LEAF-BEETLE SPECIES-GROUP TAXA IN TURKEY WITH EXACT LOCALITY DATA (COLEOPTERA: CHRYSOMELIDAE)

**Hüseyin Özdikmen*, Didem Coral Şahin** and Neslihan Bal***

* Department of Biology, Faculty of Science, Gazi University, 06500 Ankara, TURKEY. E-mail: ozdikmen@gazi.edu.tr; neslihansilkin@gmail.com
** Directorate of Plant Protection Central Research Institute, Ankara, TURKEY. E-mail: didemsahin@ziraimucadele.gov.tr

**[Özdikmen, H., Coral Şahin, D. & Bal, N.** 2020. A confirmation on the presence of four little known leaf-beetle species-group taxa in Turkey with exact locality data (Coleoptera: Chrysomelidae). Munis Entomology & Zoology, 15 (1): 226-228**]**

ABSTRACT: The paper presents confirmations with exact locality data of the presence in Turkey of four little known species-group taxa in the leaf-beetle genera *Chrysolina* Motschulsky, 1860 and *Clytra* Laicharting, 1781. The presence in Turkey of all of the aforementioned species-group taxa has been reported mostly as there are in Anatolia without exact locality data up to now. So that the presence in Turkey of these species-group taxa is confirmed again with exact locality data for the first time. *Chrysolina* (*Sulcicollis*) *impavida* Bechyné, 1949 and *Clytra* (*Ovoclytra*) *ovata borealis* Medvedev & Kantner, 2002 are confirmed with exact locality data after 70 years and 17 years since their original description respectively. Also, *Clytra* (*Ovoclytra*) *weisei* Monros, 1953 is confirmed with exact locality data after 16 years since Warchalowski (2003). In addition, *Clytra* (*Clytraria*) *valeriana taurica* Medvedev, 1961 is confirmed with exact locality data after 9 years since Palaearctic catalogue of Regalin & Medvedev (2010).

KEY WORDS: *Clytra, Chrysolina,* new data, Chrysomelidae, Turkey

Examination of an interesting material from Turkey in Nazife Tuatay Plant Protection Museum (NTM) has revealed some new important locality data of four little known leaf-beetle species-group taxa. So that the presence in Turkey of these species-group taxa is confirmed with exact locality data for the first time.

All specimens of four leaf-beetle species-group taxa are deposited at Nazife Tutay Plant Protection Museum (NTM) (Ankara, Turkey).

## *Chrysolina* (*Sulcicollis*) *impavida* Bechyné, 1949

**Material examined: Turkey, Adana prov.:** Balcalı, 15.V.2000, T. Arslan, 1 specimen; Balcalı, 08.VI.2000, leg. A. Alacuklu, 1 specimen.

**Remarks:** This species was described by Bechyné (1949) from Turkey (as "Asia Minor: Taurus") as a subspecies of *Chrysolina peregrina* (Herrich-Schaeffer, 1839). Thus it was firstly recorded by Bechyné (1949) from Turkey (Anatolia) with original description. Then, it was reported by Bienkowski (2001) from Anatolia, Israel, Rhodes; by Aslan et al. (2003) from Anatolia, Israel, Jordan; by Warchalowski (2010) from Anatolia, Israel, Lebanon, Rhodes as a subspecies of *Chrysolina peregrina* (Herrich-Schaeffer, 1839). This subpecies was given by Palaearctic catalogue of Kippenberg (2010) as a separate species from Greece, Cyprus, Israel, Syria and Anatolia. Recently, the species was reported by Ekiz et al. (2013) and Özdikmen (2014) from Anatolia.

As seen above, the Anatolian records of this species in all previous works were based on the work of Bechyné (1949) without exact locality data. So that the presence in Turkey of this species is confirmed with exact locality data for the first time after 70 years since its original description.

According to data mentioned above, this species is distributed at least in Adana province and therefore central part of S Turkey (S Anatolia) in Mediterranean region that is one of the 7 regions of Turkey.

### *Clytra* (*Clytraria*) *valeriana taurica* Medvedev, 1961

**Material examined: Turkey, İzmir prov.:** Bornova, 18.V.1938, 1 specimen; **Konya prov.:** Akşehir, 05.V.1962, leg. N. Karabıyık, 1 specimen.

**Remarks:** This subspecies was described by Medvedev (1961) from Crimea. It was also reported by Warchalowski (2010) from Crimea. The subspecies was firstly recorded by Palaearctic catalogue of Regalin & Medvedev (2010) from Turkey (Anatolia) without exact locality data and the record of Crimea (Ukraine) repeated in their work. Regalin & Medvedev (2010) stated also presence of the nominotypical subspecies in Turkey (both European Turkey and Anatolia). Accordingly, Ekiz et al. (2013) and Özdikmen (2014) mentioned both subspecies for Turkey. In both studies, the authors stated that "It is not possible to give the distributions of subspecies separately, because infraspecific data are not included in cited references".

As seen above, the Anatolian records of this subspecies in all previous works were based on the work of Regalin & Medvedev (2010) without exact locality data. So that the presence in Turkey of this subspecies is confirmed with exact locality data for the first time after 9 years since Palaearctic catalogue of Regalin & Medvedev (2010).

According to data mentioned above, this subspecies is distributed at least in İzmir, Konya provinces and therefore Aegean and Central Anatolian regions that are 2 of the 7 regions of Turkey respectively.

### *Clytra* (*Ovoclytra*) *ovata borealis* Medvedev & Kantner, 2002

**Materyal examined: Turkey, Adana prov.:** 02.VI.1963, leg. S. Taşçıoğlu, 1 specimen; **Ankara prov.:** Hacıkadın, 21.VI.1940, 1 specimen.

**Remarks:** This subspecies was described by Medvedev & Kantner (2002) for northern populations of *Clytra ovata* Lacordaire, 1848 in N Syria and S Turkey. It was also reported by Warchalowski (2010) from N Syria and S Turkey. Thus it was firstly recorded by Medvedev & Kantner (2002) from Turkey (Anatolia). The subspecies was recorded by Palaearctic catalogue of Regalin & Medvedev (2010) from Lebanon, Syria and Turkey (Anatolia) without exact locality data. Regalin & Medvedev (2010) stated also presence of the nominotypical subspecies in Turkey (only Anatolia). Accordingly, Ekiz et al. (2013) and Özdikmen (2014) mentioned both subspecies for S Turkey (S Anatolia).

As seen above, the Anatolian records of this subspecies in all previous works were based on the work of Medvedev & Kantner (2002) without exact locality data. So that the presence in Turkey of this subspecies is confirmed with exact locality data for the first time after 17 years.

According to data mentioned above, this subspecies is distributed at least in Adana, Ankara provinces and therefore Mediterranean and Central Anatolian regions that are 2 of the 7 regions of Turkey respectively.

### *Clytra* (*Ovoclytra*) *weisei* Monros, 1953

**Materyal examined: Turkey, Ankara prov.:** Bağlum, 07.VI.1961, leg. N. Tuatay, 2 specimens; 17.VI.1964, leg. A. Demirtola, 1 specimen; 18.VI.1964, leg. Y. Sürmeli, 3 specimens; **Diyarbakır prov.:** Beşpınar, 03.VI.1969, leg. A. Kalkandelen, 1 specimen; **Elazığ prov.:** 14.V.1966, leg. Y. Sürmeli, 1 specimen; **Gaziantep prov.:** 1 specimen; **Hakkari prov.:** 22.V.1966, leg. Y. Sürmeli, 6 specimens; **Konya prov.:** Akşehir, 05.V.1962, leg. N. Karabıyık, 1 specimen.

**Remarks:** This species was described by Weise (1898) from Iraq as *Clytra cingulata*, nec Latreille, 1811. The homonym specific name *Clytra cingulata* was changed by Monros (1953) as *Clytra weisei*. The species was firstly recorded by Warchalowski (2003) from Turkey (Anatolia) without exact locality data. Then, Warchalowski (2010) repeated the record of Turkey (Anatolia) without exact locality data as well as the records from Middle East. This species was given by Regalin & Medvedev (2010) from Iraq, Syria and Turkey (Anatolia). Recently, the species was reported by Ekiz et al. (2013) from Anatolia. Later, Özdikmen (2014) stated from Eskişehir province in Turkey for this species without locality data.

As seen above, the Anatolian records of this species in previous works were mostly based on the work of Warchalowski (2003) without exact locality data. So that the presence in Turkey of this species is confirmed with exact locality data for the first time after 16 years.

According to data mentioned above, this subspecies is distributed at least in Ankara and Konya provinces in Central Anatolian region, Diyarbakır and Gaziantep provinces in South-Eastern Anatolian region, Elazığ and Hakkari provinces in Eastern Anatolian region. So that this species is distributed at least in 3 of the 7 regions of Turkey.

## LITERATURE CITED

**Aslan, İ., Gruev, B. A. & Özbek, H.** 2003. A preliminary review of the Subfamily Chrysomelinae (Coleoptera, Chrysomelidae) of Turkey. Linzer Biol Beitr., 35 (1): 581-605.

**Bechyné, J.** 1949. Notulae ad cognitionem generis *Chrysolina* Motsch., IV. Ent. Listy, 12:48-55.

**Bienkowski, A. O.** 2001. A study on the genus Chrysolina Motschulsky, 1860, with a checklist of all the described subgenera, species, subspecies, and synonyms (Coleoptera: Chrysomelidae: Chrysomelinae). Genus, 12 (2): 105-235.

**Ekiz, A. N., Şen, İ., Aslan, E. G. & Gök, A.** 2013. Checklist of leaf beetles (Coleoptera: Chrysomelidae) of Turkey, excluding Bruchinae. Journal of Natural History, 47 (33-34): 2213-2287.

**Kippenberg, H.** 2010. Chrysomelinae. Pp. 390-442. In Löbl I. & Smetana A. (ed.) 2010. Catalogue of Palaearctic Coleoptera, Vol. 6. Chrysomeloidea. Stenstrup: Apollo Books, 924 pp.

**Medvedev, L. N.** 1961. Obzor palearktischeskikh vidov roda *Clytra* Laich. (Coleoptera, Chrysomelidae) [Review of Palearctic species of the genus *Clytra* Laich. (Coleoptera, Chrysomelidae)]. Entomologicheskoe Obozrenie, 40: 636-651.

**Medvedev, L. N. & Kantner, F.** 2002. Some new and poorly know Clytrinae (Coleoptera, Chrysomelidae) of the Old World. Entomologica Basiliensia, 24: 259-269.

**Monros, F.** 1953. Some corrections in the nomenclature of Clytrinae (Chrysomelidae). The Coleopterists Bulletin, 7 (6): 45-50.

**Özdikmen, H.** 2014. Chorotype identification for Turkish Chrysomeloidea (Coleoptera) Part VII – Chrysomelidae: Chrysomelinae and Timarchinae. Munis Entomology & Zoology, 9 (1): 266-286.

**Regalin, R. & Medvedev, L. N.** 2010. Clytrini. Pp. 564-579. In Löbl I. & Smetana A. (ed.) 2010. Catalogue of Palaearctic Coleoptera, Vol. 6. Chrysomeloidea. Stenstrup: Apollo Books, 924 pp.

**Warchałowski, A.** 2003. Chrysomelidae: the leaf beetles of Europe and the mediterranean Area.Warszawa: Natura optima dux Foundation; 600 pp.

**Warchałowski, A.** 2010. The Palaearctic Chrysomelidae. Identification keys. Vol. 1 & 2. Warszawa. 1212 pp.

**Weise, J.** 1898. Ueber neue und bekannte Chrysomeliden. Archiv für Naturgeschichte, 64 (1): 177-224.