

**A NEW SUBSPECIES OF *PLAGIONOTUS ARCUATUS*  
(LINNAEUS, 1758) FROM TURKEY (COLEOPTERA:  
CERAMBYCIDAE: CERAMBYCINAE)**

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ABSTRACT: The following new subspecies is described: *Plagionotus arcuatus tastani* ssp. nov. from Kocaeli province in Turkey. Accordingly, possible distribution area of new subspecies is discussed. Akey for the subspecies of *Plagionotus arcuatus* is also given.

KEY WORDS: Cerambycidae, Cerambycinae, *Plagionotus arcuatus*, new subspecies, Turkey

***Plagionotus arcuatus tastani* ssp. nov.**

(Fig. 1, 2)

*Plagionotus arcuatus* was described by Linnaeus (1758) from Europe. Firstly, 3 subspecies of the species were described and restored by Lazarev (2010) as *Plagionotus arcuatus kirgizicus* Lazarev, 2010 from Kirghizia, *Plagionotus arcuatus multiinterruptus* Pic, 1933 from Armenia and *Plagionotus arcuatus lugubris* (Ménétriés, 1832) from Azerbaijan. Then, one subspecies was described by Pesarini & Sabbadini (2011) from Crete (Greece) as *Plagionotus arcuatus ghidottii* Pesarini & Sabbadini, 2011.

According to Danilevsky (2016), *Plagionotus arcuatus* (Linnaeus, 1758) is distributed in Europe, North Africa, Iran, Kazakhstan, Kirghizia, Syria, Transcaucasia (Armenia, Azerbaijan, Georgia), Turkey, Turkmenistan. A careful study of 30 specimens of the species *Plagionotus arcuatus* (Linnaeus, 1758) close to the nominative subspecies *Plagionotus arcuatus arcuatus* (Linnaeus, 1758) from Kocaeli province in Turkey allows the description of a new subspecies, *Plagionotus arcuatus tastani* ssp. nov. The holotype (male) and paratype (female) of the new subspecies are photographed and preserved in the collection of the second autor (Turkey: Kocaeli prov.).

The new subspecies is close to the nominative subspecies. It is characterized by poor developed transverse stripes behind the middle of elytra especially. Antemedian band of elytra usually (9 males and 11 females of 30 specimens) is more or less complete but sometimes (3 males and 7 females of 30 specimens) is divided into an outer and an inner spots. The spots are well separated. Erect abdominal setae are not very dense.

**Distribution:** The taxon should be distributed in all territory of Turkey. So the old records of *Plagionotus arcuatus* from Turkey should be attributed to the new subspecies. Moreover, the records of the nominative subspecies from Georgia, Iran, Kazakhstan and Syria must be attributed to the new subspecies very likely.

**Etymology:** This name is dedicated to Prof. Dr. Hakkı Taştan (Turkey).

Consequently, the species *Plagionotus arcuatus* (Linnaeus, 1758) has 6 subspecies as follows:

***Plagionotus arcuatus arcuatus* (Linnaeus, 1758)**

**Original combination:** *Leptura arcuata* Linnaeus, 1758: 399

**Type information:** Syntypes, ex collection C. Linnaeus, Zoologiska Institutionen, Uppsala [type locality “Suecia” (Sweden)]

**Distribution:** Europe and North Africa (Algeria, Morocco, Tunisia)

***Plagionotus arcuatus ghidottii* Pesarini & Sabbadini, 2011**

**Original combination:** *Plagionotus arcuatus ghidottii* Pesarini & Sabbadini, 2011: 47

**Type information:** Holotype male, ex collection C. Pesarini & A. Sabbadini, Milano [type locality “Lakki” (Greece: Crete)]

**Distribution:** Greece (Crete)

***Plagionotus arcuatus kirgizicus* Lazarev, 2010**

**Original combination:** *Plagionotus arcuatus kirgizicus* Lazarev, 2010: 161

**Type information:** Holotype male, ex collection M. Danilevsky, Moscow [type locality “Fergana Ridge, Kara-Unkiur river, Kyzyl Unkiur env.” (Kirghizia)]

**Distribution:** Kirghizia

***Plagionotus arcuatus lugubris* (Ménétriés, 1832)**

**Original combination:** *Clytus lugubris* Ménétriés, 1832: 229

**Type information:** Syntypes, ex collection Ménétriés, Collection of Zoological Institute of the Russian Academy of Sciences, Saint-Petersbourg [type locality “Talysh Mountain ridge” (Azerbaijan)]

**Distribution:** Armenia, Azerbaijan, Iran and Turkmenistan

***Plagionotus arcuatus multiinterruptus* Pic, 1933**

**Original combination:** *Plagionotus arcuatus* var. *multiinterruptus* Pic, 1933: 6

**Type information:** Lectotype male, ex collection M. Pic, Muséum National d'Histoire Naturelle, Paris [type locality “Caucasus. Araxesthal” (Armenia, Nakhichevan)]

**Reports from Turkey:** Artvin: Saçınka Forests (Acısu) (Sekendiz, 1981);

**Distribution:** Transcaucasia (Armenia, Nakhichevan of Azerbaijan, NE Turkey)

***Plagionotus arcuatus tastani* ssp. nov.**

**Type information:** Holotype male, ex collection Ş. Atak, Kocaeli [type locality “Kocaeli province: Gebze” (Turkey)]

**Material examined:** Holotype male: Kocaeli province: Gebze, Lat: 40.825921 Lng: 29.497796, 23.VI.2016, Paratypes 2 males and 3 females: The same data of holotype, 8 males and 8 females: Kocaeli province: Gebze, Lat: 40.819622 Lng: 29.493633, 23.V.2016, 1 female: Kocaeli province: Gebze, Lat: 40.825921 Lng: 29.497796, 01.VI.2016, 1 female: Kocaeli province: Gebze, Lat: 40.824195 Lng: 29.500479, 08.VI.2016, 1 female: Kocaeli province: Gebze, Lat: 40.824195 Lng: 29.500479, 08.VI.2016, 1 male: Kocaeli province: Gebze, Lat: 40.824195 Lng: 29.500479, 08.VI.2016, 1 male: Kocaeli province: Gebze, Lat: 40.824195 Lng: 29.500479, 08.VI.2016, 2 females: Kocaeli province: Başiskele, Lat: 40.696860

Lng:29.894771, 19.VI.2016, 1 female: Kocaeli province: Gebze, Lat: 40.825900  
 Lng:29.497778, 23.VI.2016.

**Reports from Turkey:** Hatay prov.: Akbez (Pic, 1892); İstanbul prov.: Belgrad Forest, Bosphorus region (Acatay, 1943; Schimitschek, 1944); İstanbul prov.: Alem Mt. (Demelt, 1967); Isparta prov.: Eğirdir (Tuatay et al., 1972); Düzce prov.: Central, İstanbul prov.: Bahçeköy (Öymen, 1987); Tokat prov.: Topçam Mt., Kastamonu prov.: Masruf pass. (Adlbauer, 1992); European Turkey (Althoff & Danilevsky, 1997); Muş prov., Osmaniye prov. (Tozlu et al., 2002); Bilecik prov.: İnegöl-Bozüyük, Çanakkale prov.: Kirazlı (Malmusi & Saltini, 2005); Isparta prov.: Eğirdir (Özdikmen et al., 2005); Samsun prov.: Alaçam (Doyran (Özdikmen, 2007); Isparta prov.: Yukarıgökdere 30 km S of Eğirdir: Kasnak Forest National Park (Sama et al., 2011); Bingöl prov.: 30/36 km east of Bingöl, Muş prov.: Buğlan pass (Sama, Rapuzzi & Özdikmen, 2012).

**Distribution:** Turkey, ?Georgia, ?Iran, ?Kazakhstan, ?Syria

### A key for all subspecies of *Plagionotus arcuatus* (Linnaeus, 1758)

1. Pronotum without or with relatively poor developed light pubescence.....2  
 -. Pronotum with light pubescence.....4
2. Transverse stripes (postmedian and posterior stripes) behind middle of elytra complete; distributed in Kirghizia.....*P. arcuatus kirgizicus* Lazarev, 2010  
 -. At least posterior stripe of elytra usually reduced small spots.....3
3. Legs and antennae usually totally black or sometimes partly reddish; usually white pale or sometimes pale-yellow strongly reduced pubescence; distributed in Armenia, Azerbaijan, Iran and Turkmenistan.....  
 .....*P. arcuatus lugubris* (Ménétriés, 1832)  
 -. Legs and antennae usually red with darkened femora; usually yellow light body pubescence; distributed in Armenia, Azerbaijan and NE Turkey.....  
 .....*P. arcuatus multiinterruptus* Pic, 1933
4. Transverse stripes behind middle relatively stronger developed; distributed in Europe and North Africa (Algeria, Morocco, Tunisia).....  
 .....*P. arcuatus arcuatus* (Linnaeus, 1758)  
 -. Transverse stripes behind middle relatively poor developed.....5
5. Antemedian band of elytra always divided into an outer spot strongly inclinator well separated from an inner spot in the shape of a stain, while the postmedian band of elytra strongly arched and angular forward; distributed in Crete (Greece)..  
 .....*P. arcuatus ghidottii* Pesarini & Sabbadini, 2011  
 -. Antemedian band of elytra complete or sometimes divided into an outer stroke not strongly inclinator, while the postmedian band of elytra strongly arched but not angular forward; distributed in Turkey, ?Georgia, ?Iran, ?Kazakhstan, ?Syria.....*P. arcuatus tastani* ssp. nov.

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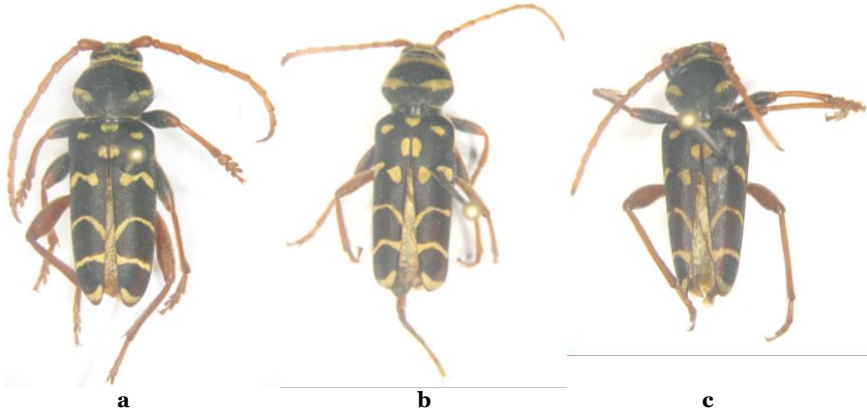


Figure 1. *Plagionotus arcuatus tastani* ssp. nov., a. Holotype male from Gebze, b. Paratype female from Gebze, c. Paratype male from Gebze.



Figure 2. Variation patterns of *Plagionotus arcuatus tastani* ssp. nov., a. Holotype male from Gebze, b. Paratype female from Gebze, c. Paratype male from Gebze, d. Paratype male from Gebze, e. Paratype female from Gebze, f. Paratype female from Başiskele, g. Paratype male from Gebze, h. Paratype male from Gebze, i. Paratype female from Gebze, j. Paratype female from Gebze, k. Paratype female from Gebze, l. Paratype female from Gebze.