

**CHOROTYPE IDENTIFICATION  
FOR TURKISH CHRYSOMELOIDEA (COLEOPTERA)  
PART IX – MEGALOPODIDAE AND ORSODACNIDAE**

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**ABSTRACT:** The paper gives chorotype identifications for Turkish Megalopodidae and Orsodacnidae (Coleoptera: Chrysomeloidea). In association with this, some zoogeographical remarks are also given in the text.

**KEY WORDS:** Megalopodidae, Orsodacnidae, Chrysomeloidea, Fauna, Zoogeography, Turkey.

Works on Turkish leaf beetles began in late 19th century. Especially since the last century, they were increased as chiefly faunistic and taxonomic works. Recently, they continue with an increased speed.

Clearly, there is no any work on zoogeographical regionalisation of Turkish Chrysomeloidea related the whole territories of Turkey or regions of Turkey (see Part I for regions in Turkey) at the present.

As known, a series work was planned that is aim to expose zoogeographical regionalisations of Turkish Chrysomeloidea fauna. Özdikmen & Kaya (2014), Özdikmen & Mercan (2014), Özdikmen & Cihan (2014), Özdikmen & Özbek (2014), Özdikmen & Kavak (2014), Özdikmen & Topcu (2014) and Özdikmen (2014a,b) are the previous works for this aim. The present study is attempted as the ninth step of this aim.

**ARRANGEMENT OF INFORMATION**

Information in the present text is given in the following order:

The subfamily, genus, species and subspecies names are given simply.

For each genus, species and subspecies are presented with the author name and date of description.

The data, **Range**, **Records in Turkey**, **Remarks** and **Chorotype** under the title for each taxon is given.

**Range.** In these parts, the whole distribution areas in world are provided for each taxon as in Löbl & Smetana (2010) (see the cited reference for the abbreviations).

**Records in Turkey.** In these parts, the whole distribution areas in Turkey are provided for each taxon as in Ekiz et al. (2013) (see the cited reference for the abbreviations).

**Remarks.** In these parts, regional and general distribution in Turkey are given chiefly.

**Chorotype.** The present zoogeographical characterization.

The present zoogeographical characterization is based on the chorotype classification of Anatolian fauna, recently proposed by Vigna Taglianti et al. (1999). In the text, as far as possible one chorotype description can be identified for each taxon. But this kind of description can not be possible for some taxa, so two or more chorotypes are used for them.

With this purpose, Löbl & Smetana (2010) for the range in the world, Ekiz et al. (2013) for the provincial distribution in Turkey and Özdikmen et al. (2014) for the fauna of Turkey are used chiefly.

According to Özdikmen et al. (2014), Turkish Megalopodidae comprises of 3 species of 2 genera and Turkish Orsodacnidae comprises of 3 species of 1 genus.

**Family MEGALOPODIDAE**  
**Subfamily MEGALOPODINAE**

**Genus *Temnaspis* Lacordaire, 1845**

***T. nigropunctata* (Pic, 1896)**

**Range:** A: SY TR **Records in Turkey:** TR-A: ADA, HAT **Remarks:** The species has been recorded only from Mediterranean Region in Turkey until now. **Chorotype:** SW-Asiatic (Syro-Anatolian)

**Subfamily ZEUGOPHORINAE**

**Genus *Zeugophora* Kunze, 1818**

**Subgenus *Zeugophora* Kunze, 1818**

***Z. scutellaris* Suffrian, 1840**

**Range:** E:AU BE BY CZ DE FI FR GE HU IT LA LT NL NR NT PL SK SV SZ A: ES GAN HEB HEI IN IS JIL KI KZ LIA NMO SY TD TR WS XIN **NAR Records in Turkey:** TR-A: KON **Remarks:** The species has been recorded only from Central Anatolian Region in Turkey until now. **Chorotype:** Holarctic

***Z. subspinosa* (Fabricius, 1781)**

**Range:** E: AU BE BU BY CT CZ DE EN FI FR GB GE HU IT LA LT NL NR NT PL SK ST SV SZ TR UK YU A: ES FE KZ MG WS **Records in Turkey:** TR-E: IST **Remarks:** The species has been recorded only from Marmara Region in Turkey until now. **Chorotype:** Sibero-European

**Family ORSODACNIDAE**  
**Subfamily ORSODACNINAE**

**Genus *Orsodacne* Latreille, 1802**

***O. cerasi* (Linnaeus, 1758)**

**Range:** E: AB AU BE BU BY CR CT CZ DE EN FI FR GB GE HU IT LA LS LT MD NL NR NT PL RO SK SP ST SV SZ UK YU A: ES TR WS **Records in Turkey:** TR-A: IZM **Remarks:** The species has been recorded only from Aegean Region in Turkey until now. **Chorotype:** Sibero-European

***O. humeralis* Latreille, 1804**

**Range:** E: AB AU BH BU CR CZ FR GB GE GR HU IT MC MD PL PT RO SK SL SP SZ UK A: CY TR **Records in Turkey:** TR-A: ANK – TR-E **Remarks:** The species has been recorded only from 2 Turkish regions as Central Anatolian Region and Marmara Region until now. **Chorotype:** European

***O. variabilis* Bally, 1877**

**Range:** A: “Kurdistan” **Records in Turkey:** TR-A: AYD, ISP, IZM **Remarks:** The species has been recorded only from 2 Turkish regions as Aegean Region and Mediterranean Region until now. **Chorotype:** SW-Asiatic (Irano-Anatolian)

### ZOOGEOGRAPHICAL ANALYSIS

**Turkish Megalopodidae** includes 3 species of 2 genera. Each of the species has a different chorotype. One species, namely about 33.33 % of the taxa has “Holarctic” chorotype. One species, namely about 33.33 % of the taxa has “Sibero-European” chorotype. One species, namely about 33.33 % of the taxa has “SW-Asiatic” chorotype (Fig. 1).

For zoogeographical evaluation, the all known species of Turkish Megalopodidae are presented as follows:

One species as *Z. scutellaris* has “Holarctic” chorotype.

One species as *Z. subspinosa* has “Sibero-European” chorotype.

One species as *T. nigropunctata* has “SW-Asiatic” chorotype.

On the other side, the regional distributions of all known species of Megalopodidae in Turkey are presented as follows (Table 1):

For the subfamily Megalopodidae:

1 species are represented in Marmara Region (33 %)

0 species are represented in Aegean Region (0 %)

1 species are represented in Mediterranean Region (33 %)

1 species are represented in Central Anatolian Region (33 %)

0 species are represented in Black Sea Region (0 %)

0 species are represented in Eastern Anatolian Region (0 %)

0 species are represented in South-Eastern Anatolian Region (0 %)

So Turkish Megalopodidae that includes only 3 species are distributed only in western half of Turkey.

**Turkish Orsodacnidae** includes 3 species of 1 genus. Each of the species has a different chorotype. One species, namely about 33.33 % of the taxa has “European” chorotype. One species, namely about 33.33 % of the taxa has “Sibero-European” chorotype. One species, namely about 33.33 % of the taxa has “SW-Asiatic” chorotype (Fig. 2).

For zoogeographical evaluation, the all known species group taxa of Turkish Orsodacnidae are presented as follows:

One species as *O. humeralis* has “European” chorotype.

One species as *O. cerasi* has “Sibero-European” chorotype.

One species as *O. variabilis* has “SW-Asiatic” chorotype.

On the other side, the regional distributions of all known species of Orsodacnidae in Turkey are presented as follows (Table 1):

For the subfamily Orsodacnidae:

1 species are represented in Marmara Region (33 %)

2 species are represented in Aegean Region (66 %)

1 species are represented in Mediterranean Region (33 %)

1 species are represented in Central Anatolian Region (33 %)

0 species are represented in Black Sea Region (0 %)

0 species are represented in Eastern Anatolian Region (0 %)

0 species are represented in South-Eastern Anatolian Region (0 %)

So Turkish Orsodacnidae that includes only 3 species are distributed only in western half of Turkey.

### LITERATURE CITED

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Table 1. The regional distribution of all known species group taxa of Megalopodidae and Orsodacnidae in Turkey.

TAXON	R	E	G	I	O	N	S
	MAR	AER	MER	CAR	BSR	EAR	SEAR
<b>FamilyMEGALOPODIDAE</b>							
<b>SubfamilyMEGALOPODINAE</b>							
<i>T. nigropunctata</i>	-	-	+	-	-	-	-
<i>Z. scutellaris</i>	-	-	-	+	-	-	-
<i>Z. subspinosa</i>	+	-	-	-	-	-	-
<b>FamilyORSODACNIDAE</b>							
<b>SubfamilyORSODACNINAE</b>							
<i>O. cerasi</i>	-	+	-	-	-	-	-
<i>O. humeralis</i>	+	-	-	+	-	-	-
<i>O. variabilis</i>	-	+	+	-	-	-	-

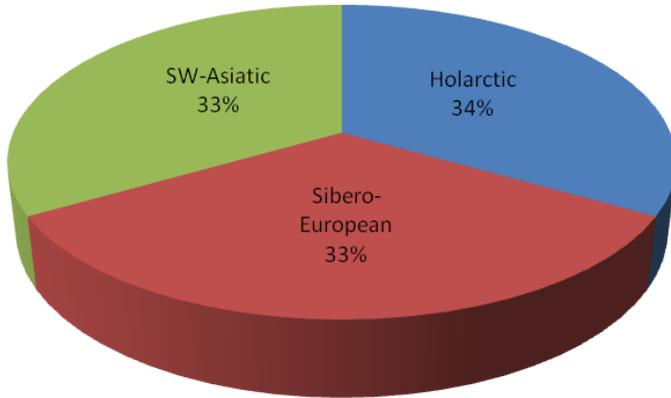


Figure 1. Chorotypical distribution of Turkish Megalopodidae.

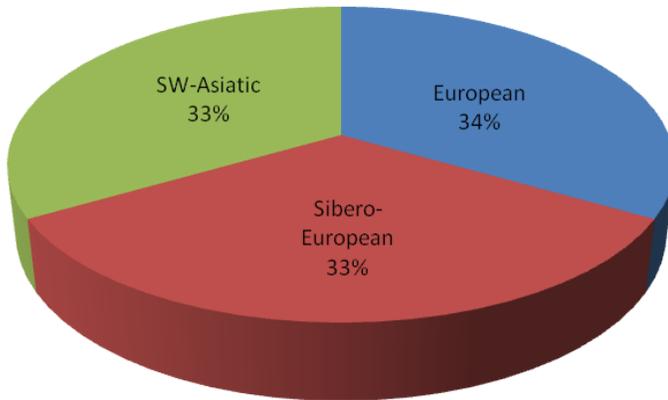


Figure 1. Chorotypical distribution of Turkish Orsodacnidae.