

**CONTRIBUTIONS TO THE KNOWLEDGE OF
TURKISH AUCHENORRHYNCHA (HOMOPTERA,
FULGOROMORPHA AND CICADOMORPHA , EXCL.
CICADELLIDAE) WITH A NEW RECORD, *SETAPIUS
KLAPPERICHIANUS* DLABOLA, 1988**

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ABSTRACT: In this study, 2721 samples of Auchenorrhyncha (excl. Cicadellidae) species collected from Antalya region in south-west Turkey during field studies in the years 1999 and 2001-2003 are examined. 74 species belonging to 13 families are found to be distributed in the region. Among these, 14 species belong to the Family Cixidae, 13 species to Delphacidae, 1 species to Meenoplidae, 1 species to Achilidae, 6 species to Dictyopharidae, 1 species to Tropiduchidae, 6 species to Tettigometridae, 2 species to Caliscelidae, 11 species to Issidae, 1 species to Flatidae, 9 species to Cicadidae, 7 species to Cercopidae and 2 species to Membracidae. Distribution of these species in Turkey and their host plants are given along with their locality records. 47 of these examined species are new records for Antalya and *Setapius klapperichianus* Dlabola, 1988 is a new record for Turkey's fauna.

KEY WORDS: Homoptera, Fulgoromorpha, Cicadomorpha, fauna, new record, Turkey.

Turkey's first faunistic records of Auchenorrhyncha (excl. Cicadellidae) are given by Fahringer (1922), Dlabola (1957, 1971a, 1971b, 1974, 1977, 1979a 1979b, 1980, 1981, 1982, 1983a, 1983b, 1984a, 1984b, 1985, 1986, 1995), Linnavuori (1965), Boulard (1979), Asche (1982), Hoch and Remane (1985), Kalkandelen (1980, 1987, 1988) and Kartal (1978, 1980, 1981, 1983, 1985a, 1985b, 1986, 1987). Lodos and Kalkandelen (1980a, 1980b, 1980c, 1981a, 1981b, 1981c, 1988) compile the faunistic records of the studies until 1988 and state that 302 Auchenorrhyncha (excl. Cicadellidae) species are distributed in Turkey, in the checklist they prepared. Later, the studies of Kalkandelen (1989a, 1989b, 1990, 1993, 1994, 2000), Boulard (1993), Kartal, et. al. (1994), Güçlü (1996), Demir (1998, 2006), Emeljanov (2002) and Gnezdilov (2002) present 17 records of species belonging to Auchenorrhyncha (excl. Cicadellidae). According to the studies until recently, 319 species of Auchenorrhyncha (excl. Cicadellidae) were known to be distributed in Turkey.

The province of Antalya, which is selected as the survey area, is located on the Mediterranean coastline in southwest of Turkey, between 29°.15'-32°.36' eastern longitudes and 36°.06'-37°.27' northern latitudes. The elevation ranges between 0 and 3070m This province is

important because of its biological diversity with four national parks and three nature protection areas; namely, Olympos Beydağları Coastal National Park, Termessos Güllük Mountain National Park, Köprülü Kanyon National Park, Altınbeşik National Park, Çığlıkara Nature Protection Area, Dibek Nature Protection Area and Alacadağ Nature Protection Area. 40 Auchenorrhyncha (excl. Cicadellidae) species are found to be distributed in the survey area, as a result of compilation of the records in the studies of the authors mentioned above.

Climate of the Study Area:

The region is under the influence of a Mediterranean climate that is an outer tropical climate, in which photoperiodism is daily and seasonal, precipitation occurs mostly in cold or relatively colder seasons, summer is the dry period and summer drought coincides with maximum summer temperature. All the stations except Gazipaşa (796.3 mm), which is the easternmost station, receive precipitation over 1000mm, according to Akman (1995). On the coastline, 60-65% of precipitation is received in winter and 0.5-2% in summer.

Vegetation of the Survey Area:

There are communities dominated by *Pinus brutia* forest, garrigue and maquis along the coastline at approximately up to 1000 m above sea level, although they are damaged by human activity in many places. *Pinus brutia* can sometimes be seen above 1000 meters and on the coast it is mixed with *Pinus pinea*. *Ceratonia siliqua*, *Pistacia lentiscus*, *Euphorbia dendroides*, *Myrthus communis*, *Clematis cirrhosa*, *Rubia tinctoria*, *Teucrium creticum* and *Capparis spinosa* are examples of common characteristic species of the coastline. Examples of common characteristic species of the zone just above the coastline are *Quercus coccifera*, *Pistacia terebinthus* ssp. *palaestina*, *Crataegus aronia* ssp. *aronia*, *Fontanesia phillyreoides*, *Rhamnus oleoides* ssp. *graecus*, *Arbutus andrachne*, *Melica eligulata*, *Eryngium falcatum* and *Rubia tenuifolia*. On the eastern half of the region at elevations of 1500m and higher, there are forests comprising of *Cedrus libani*, *Abies cilicica*, *Pinus nigra* ssp. *pallasiana*, *Quercus infectoria* ssp. *boissieri*, *Quercus libani*, *Juniperus excelsa*, and *Juniperus drupacea*. The western parts of the region are covered with *Cedrus libani* forests at elevations of 1500m and higher. Although cedars here show floristic structure, blackpine forests are extremely poor. *Lonicera nummulariifolia* ssp. *glandulifera*, *Digitalis cariensis* and *Acer hyrcanum* ssp. *sphaerocaryum* are examples of characteristic species in this part Akman (1995).

MATERIALS AND METHODS

Field studies in 143 different localities were carried out during the months of March-October in the years 1999 and 2001-2003. In this

study, 2721 adult Auchenorrhyncha (excl. Cicadellidae) samples were collected by sweeping the plants with a wooden shaft net and the of samples collected from only one species of plant were determined. Homopterans, found in the net after sweeping were collected with an aspirator. The samples in the aspirator were then killed by ethyl acetate in a jar and put in standard envelopes and prepared according to the standard methods to produce museum material. The studied samples are preserved in the collection of the author.

RESULTS

There were found to be 74 species of Auchenorrhyncha (excl. Cicadellidae) in the survey area. These are listed below, together with their distribution in Turkey and the plants found to be their host. Out of these examined species 47 are new records for Antalya and *Setapius klapperichianus* Dlabola, 1988 is a new record for Turkey.

Family: Cixiidae Spinola, 1839

Cixius (Ceratocixius) pallipes Fieber, 1876

Materials: Manavgat, Değirmenli, 04.08.1999 1♀ on *Salix*. **Distribution in Turkey:** Adana, Adıyaman, Afyon, Ankara, Antalya, Artvin, Aydın, Balıkesir, Bartın, Çanakkale, Çankırı, Diyarbakır, Düzce Erzincan, Erzurum, Eskişehir, Gaziantep, Giresun, Gümüşhane, Hakkari, Iğdır, İzmir, Karaman, Kırşehir, Konya, Kütahya, Kahramanmaraş, Malatya, Mardin, Muğla, Ordu, Sakarya, Samsun, Tokat, Şanlıurfa, Yozgat (Lodos & Kalkandelen, 1980a; Dlabola, 1981; Kalkandelen, 1988). **Remarks:** Known to Antalya.

Cixius (Ceratocixius) remotus Edwards, 1888

Materials: Manavgat, Yukarıışıklar-Tilkiler, 460 m., 14.05.2001 1♂1♀ on *Cistus creticus*. **Distribution in Turkey:** Adana, Erzurum, Konya (Kalkandelen, 1988). **Remarks:** New for Antalya.

Duilius seticulosus (Lethierry, 1874)

Materials: Serik: Aspendos, 18.07.2002 14♂2♀; Manavgat: Taşağıl, 60 m., 27.08.2003 11♂5♀; Hacıobası, 26.08.2003 6♂ on *Tamarix*. **Distribution in Turkey:** Antalya, Erzincan, Kahramanmaraş, Nevşehir (Lodos & Kalkandelen, 1988; Kalkandelen, 1989). **Remarks:** Known to Antalya.

Eumecurus gyaurus (Dlabola, 1957)

Materials: İbradı: Üzümdere, 470 m., 18.08.1999 1♀; Düzlerçamı, 280 m., 22.07.2001 1♀ on maquis shrubs. **Distribution in Turkey:** Adana, Antalya (Dlabola, 1957; Kalkandelen, 1989b). **Remarks:** Endemic to Turkey and known to Antalya.

Pentastiridius (s. str.) leporinus (Linnaeus 1761)

Materials: Finike, 06.06.2001 1♀. It has been collected from weeds in *Vitex*-shrubs. **Distribution in Turkey:** Antalya, Konya, Mersin, Toros Dağları. (Linnavuori, 1965; Dlabola, 1981; Kalkandelen, 1990). **Remarks:** Known to Antalya.

***Reptalus (s. str.) horridus* (Linnavuori, 1962)**

Materials: Manavgat: Demirciler, 10 m., 17.08.1999 2♂; Demirciler, 40 m., 24.07.2001 1♂1♀; Akseki: Murtiçi, 540 m., 25.07.2001 1♂; İbradı: Başlar, 1440 m., 21.08.2002 2♂2♀ on *Quercus*. **Distribution in Turkey:** Adana, İzmir (Kalkandelen, 1994). **Remarks:** New for Antalya.

***Reptalus oleae* Dlabola, 1987**

Materials: Manavgat: Tilkiler, 470 m., 14.05.2001 1♂; Beşkonak, Köprülü Kanyon, 495 m., 07.06.2001 1♂3♀; Demirciler, 105 m., 18.05.2002 4♂2♀; Demirciler, 105 m., 21.06.2002 1♂1♀; Korkuteli: Korkuteli-Kargalık, 1060 m., 06.06.2001 1♂; Gündoğmuş: Güneycik, 210 m., 22.06.2002 1♀; Akseki: Güçlüköy, 575 m., 22.06.2002 1♀ on *Arbutus andrachne*, *Pinus brutia*, *Celtis australis* and *Verbascum*. **Distribution in Turkey:** Antalya; Kaş, Mersin, Muğla. (Kalkandelen, 1994). **Remarks:** Endemic to Turkey and known to Antalya.

***Setapius klapperichianus* Dlabola, 1988**

Materials: Manavgat: Bucakşeyhler, 24.07.1999 2♀; Manavgat, 21.07.1999 1♀; Manavgat, 10.08.1999 1♂1♀; Manavgat, 10 m., 20.07.1999 1♀; Değirmenli, 04.08.1999 1♀; Demirciler, 65 m., 21.07.1999 1♂; Manavgat, 18.09.1998 2♂3♀; Beşkonak, 145 m., 07.06.2001 2♂; Örenşehir, 15.10.2001 1♀; Çakış, 16.10.2001 1♂; Manavgat, 10 m, 07.09.2001 1♂4♀; Kemer: Böğürtlenözü, 18.04.2001 1♂3♀; Kemer, 06.06.2001 1♂; Alanya: Okurcalar, 20.05.2002 1♀; Serik: Dikmen, 18.07.2002 1♂; Finike: Yeşilyurt, 18.04.2001 1♂2♀. It has been collected from weeds in fields and *Pinus brutia* forest. **Distribution in Turkey:** This species is the first record in Turkey. **Remarks:** New for Turkey.

***Pentastira major* Kirschbaum, 1868**

Materials: Manavgat: Demirciler, 10 m., 17.08.1999 1♂ on *Quercus*. **Distribution in Turkey:** Adana, Ankara, Antalya; Alanya, Bolu, Çankırı, Çorum, Diyarbakır, Gaziantep, Giresun, Hatay, Isparta, İzmir, Konya, Karaman, Kahramanmaraş, Manisa, Mardin, Muş, Niğde, Samsun, Tekirdağ, Tokat, Şanlıurfa, Van, Yozgat (Linnavuori, 1965; Lodos & Kalkandelen, 1980a; Kalkandelen, 1993). **Remarks:** Known to Antalya.

***Pentastira megista* Emeljanov, 1978**

Materials: İbradı: Ormana, 1000 m., 21.08.2002 1♂ on maquis shrubs. **Distribution in Turkey:** Adana, Ankara, Çankırı, Diyarbakır, Erzurum, Konya, Karaman, Muş, Niğde, Yozgat (Kalkandelen, 1993). **Remarks:** New for Antalya.

***Hyalesthes luteipes* Fieber, 1876**

Materials: Manavgat: Demirciler, 40 m., 17.07.2002 1♂ on *Fontanesia phillyreoides*. **Distribution in Turkey:** Ankara, Aydın, Çorum, Diyarbakır, İstanbul, Kırşehir, Kahramanmaraş, Karaman, Kayseri, Konya, Mersin, Nevşehir, Van, Yozgat (Linnavuori, 1965; Dlabola, 1957, 1981; Lodos & Kalkandelen, 1980a, Hoch & Remane, 1985; Kalkandelen, 2000). **Remarks:** New for Antalya.

***Hyalesthes mavromoustakisi* Dlabola 1959**

Materials: Gündoğmuş: Serinyaka, 700 m., 25.07.1999, 1♀; Korkuteli: Korkuteli, 30 km W, 670 m., 28.08.2003 2♀ on weeds and maquis shrubs.

Distribution in Turkey: Diyarbakır (Lodos & Kalkandelen, 1980a).

Remarks: New for Antalya.

***Hyalesthes mlokosiewiczzi* Signoret, 1879**

Materials: Korkuteli: Koru Dağı, Kartal Yaylası, 1600 m., 23.06.2002 1♀ on *Salix*. **Distribution in Turkey:** Adana, Adıyaman, Afyon, Ankara, Aydın, Bilecik, Burdur, Çankırı, Diyarbakır, Gaziantep, Isparta, İzmir, Kahramanmaraş, Kilis, Malatya, Mardin, Mersin, Muğla, Siirt, Şanlıurfa, Tokat (Dlabola, 1957, 1981; Lodos & Kalkandelen, 1980a, Kalkandelen, 2000).

Remarks: New for Antalya.

***Hyalesthes obsoletus* Signoret, 1865**

Materials: İbradı: Üzümdere, 470 m., 18.08.1999, 3♂2♀; Manavgat: Demirciler 40 m., 11.05.2001 1♀; Hacıobası, 14.10.2001 1♂; Hacıobası, 22.06.2002 1♀; Taşağıl, 60 m., 27.08.2003 4♂; Hacıobası, 26.08.2003 4♂; Akseki: Erenkaya, 630 m., 22.06.2002 3♂2♀; Finike: Dağbağ, 475 m., 13.07.2002 1♂1♀; Kale: Kale, 20.08.2002 1♀. It has been collected from weeds in fields and *Vitex agnus-castus*. **Distribution in Turkey:** Adana, Afyon, Adıyaman, Ağrı, Ankara, Antalya, Aydın, Balıkesir, Bolu, Burdur, Bursa, Çanakkale, Çankırı, Çorum, Diyarbakır, Düzce, Edirne, Elazığ, Erzincan, Erzurum, Eskişehir, Gaziantep, Giresun, Hakkari, Iğdır, Isparta, İstanbul, Kahramanmaraş, Konya, Malatya, Mardin, Mersin, Muğla, Nevşehir, Ordu, Rize, Sakarya, Sinop, Sivas, Tokat, Trabzon, Şanlıurfa, Van (Fahringer, 1922; Dlabola, 1957, 1981; Hoch & Remane, 1985; Lodos & Kalkandelen, 1980a; Kalkandelen, 2000). **Remarks:** Known to Antalya.

Family: Delphacidae Leach, 1815***Asiraca clavicornis* (Fabricius, 1794)**

Materials: Manavgat: Evrenleryavşı, 10 m., 16.03.2002 1♀. It has been collected from weeds in *Pinus brutia*. **Distribution in Turkey:** Amasya, Ankara, Antalya, Aydın, Çorum, Denizli, Erzurum, İstanbul, İzmir, Konya, Kütahya, Muğla, Nevşehir, Samsun, Sinop, Yozgat (Fahringer, 1922; Lodos & Kalkandelen, 1980b; Dlabola, 1981; Asche, 1982; Güçlü, 1996). **Remarks:** Known to Antalya.

***Kelisia ribauti* Wagner, 1938**

Materials: Akseki: Geriş, 700 m., 17.04.2001 7♂11♀. It has been collected from weeds in *Pinus brutia*. **Distribution in Turkey:** Ankara, Aydın, Bitlis, Denizli, Diyarbakır, Erzurum, Hakkari, Konya, Malatya, Siirt, Van (Dlabola, 1957, 1981; Lodos & Kalkandelen, 1980b; Asche, 1982; Güçlü, 1996). **Remarks:** New for Antalya.

***Kelisia yarkonensis* Linnavuori, 1962**

Materials: Manavgat: Boztepe, Alara, 15.10.2001 1♀; Bucakşeyhler, 70 m., 23.04.2002 1♂; Kale, Eseler, 55 m, 15.05.2001 1♀. It has been collected from weeds in fields. **Distribution in Turkey:** Konya (Asche, 1982). **Remarks:** New for Antalya.

***Tropidocephala tuberipennis* (Mulsant et Rey, 1855)**

Materials: Manavgat: Bucakşeyhler, 24.07.1999 1♀; Bucakşeyhler, 13.08.1999 2♀; Hacıobası, 14.10.2001 1♂; Demirciler, 40 m., 20.06.2002 43♂35♀; Kemer: Kemer, 06.09.2002 1♀. On Graminae. **Distribution in Turkey:** Adana, Antalya, Aydın, Mersin (Dlabola, 1957; Asche, 1982). **Remarks:** Known to Antalya.

***Chloriana ponticana* Asche, 1982**

Materials: Gazipaşa: Çalıpınar-Kahyalar, 20 m., 20.05.2002 1♀ on *Arundo donax*. **Distribution in Turkey:** Antalya (Asche, 1982). **Remarks:** Known to Antalya.

***Chloriana flaveola* Lindberg, 1948**

Materials: Manavgat: Demirciler, 65 m., 15.04.2001 1♀; Kumluca: Kumluca, 06.06.2001 6♀; Alanya: Konaklı, 25 m, 24.04.2002 1♀; Düzlerçamı: 280 m., 22.07.2001 1♀ on *Arundo donax*. **Distribution in Turkey:** Adana (Dlabola, 1957). **Remarks:** New for Antalya.

***Laodelphax striatellus* (Fallen, 1826)**

Materials: Manavgat: Bucakşeyhler, 13.08.1999 1♂2♀; Bucakşeyhler, 18-28.06.1997 1♀; Beşkonak, 145 m., 07.06.2001 5♂2♀; Demirciler, 65 m., 05.06.2001 1♂; Demirciler, 20 m., 18.05.2002 2♂2♀; Demirciler, 40 m., 18.08.2001 6♂13♀; Manavgat, 10 m, 07.09.2001 3♂5♀; Alanya: Obaköy, 25 m., 12.08.1999 1♂3♀; Elmalı: Akçay, 1100 m., 28.07.1999 1♂; Kemer: Kemer, 06.06.2001 8♂4♀; Böğürtlenözü, 18.04.2001 5♂8♀; Çamyuva, 18.04.2001 2♂11♀; Kemer, 06.09.2002 1♂1♀; Finike: Turunçova, 50 m., 06.06.2001 6♂13♀; Serik: Aspendos, Köprüçayı, 16.10.2001 2♀; Camili, 26.07.2001 6♂4♀; Güllük Dağı: Araştırma Ormanı, 750 m., 21.05.2002 1♂; Korkuteli: Datköy, 960 m., 13.07.2002 15♂16♀; Kale: Köşkerler, 240 m, 15.05.2001 3♂9♀; Kumluca, Kavakdibi, 130 m, 24.06.2002 7♂; Gazipaşa: Macarköy, 09.09.2001 5♂1♀; Kaş: Kalkan, Üzümlü, 285 m, 15.05.2001 4♂5♀. It has been collected from weeds in *Pinus brutia* forest and fields. **Distribution in Turkey:** Adana, Adıyaman, Ankara, Antalya, Bilecik, Bitlis, Diyarbakır, Erzincan, Erzurum, Iğdır, İzmir, Kahramanmaraş, Kars, Malatya, Malatya, Mersin, Muğla, Nevşehir, Niğde, Ordu, Rize, Siirt (Dlabola, 1971, 1981; Lodos & Kalkandelen, 1980b; Asche, 1982; Güçlü, 1996). **Remarks:** Known to Antalya.

***Sogatella vibix* (Haupt, 1922)**

Materials: Kaş: Kalkan, Yeşilköy, 29.07.1999 1♂; Manavgat: Bucakşeyhler, 15-26.08.1997 1♂; Çakış, 16.10.2001 2♀; Örenşehir, 15.10.2001 1♀ (Graminae); Taşağıl, Kilimli, 40 m, 08.09.2002 1♂5♀; Ilica, 07.09.2001 2♀; Demirciler, 40 m, 18.08.2001 2♂; Gazipaşa: Çalıpınar-Kahyalar, 20 m., 20.05.2002 1♀; Asarcık, 24.04.2002 3♂18♀; Finike: Yeşilyurt, 18.04.2001 3♂1♀; Erenkavak, 65 m, 24.06.2002 1♂4♀; Yeşilyurt, 06.09.2002 3♂7♀; Serik: Dikmen, 26.07.2001 1♂8♀; Aksu: Topallar, 26.07.2001 2♂13♀; Kale: Eseler, 55 m, 24.06.2002; 6♂15♀; Kemer: Böğürtlenözü, 21.08.2001 5♂2♀; Kemer, 06.09.2002 2♂; Alanya: Konaklı, 25 m, 24.04.2002 4♂. It has been collected from weeds in *Pinus brutia* forest and fields. **Distribution in Turkey:** Ankara, Aydın, Bitlis, Diyarbakır, Erzurum, Hatay, Mersin, Van (Dlabola, 1971, 1981; Asche, 1982; Güçlü, 1996). **Remarks:** New for Antalya.

***Muirodelphax aubei* (Perris, 1857)**

Materials: Elmalı: Çiğlikara, 1600 m., 28.08.2003 35♂39♀. It has been collected from weeds in *Cedrus libani*. **Distribution in Turkey:** Ankara, Denizli, Erzurum, İzmir, Van (Dlabola, 1957, 1981; Lodos & Kalkandelen, 1980b; Asche, 1982; Güçlü, 1996). **Remarks:** New for Antalya.

***Toya propinqua* (Fieber, 1866)**

Materials: Manavgat: 21.07.1999 1♂1♀; Bucakşeyhler, 13.08.1999 2♂1♀; Bucakşeyhler, 24.07.1999 1♂2♀; Manavgat, 18.09.1998 1♂; Demirciler, 10 m., 17.08.1999 1♀; Belenobası, 130 m., 15.04.2001 2♀; Beşkonak, 145 m., 07.06.2001 3♂9♀; Demirciler, 40 m., 05.06.2001 1♂; Bucakşeyhler, 70 m., 23.04.2002 2♂; Demirciler, 20 m., 18.05.2002 1♂; Demirciler, 105 m., 21.06.2002 1♀; Demirciler, 40 m., 20.06.2002 3♀; Hacıobası, 22.06.2002 1♂1♀; Alanya: Obaköy, 25 m., 12.08.1999 1♂3♀; Okurcalar, 12.05.2001 1♂; Okurcalar, 09.09.2001 2♂2♀; Konaklı, 25 m., 24.04.2002 3♂2♀; Kaş: Kalkan, Yeşilköy, 29.07.1999 3♂3♀; Finike: Turunçova, 50 m., 06.06.2001 1♂; Kumluca: Kavakköy, 18.04.2001 2♂6♀; Kale: Eseler, 55 m., 15.05.2001 1♂3♀; Serik: Dikmen, 26.07.2001 1♂7♀; Gazipaşa. Asarcık, 24.04.2002 4♂9♀; Kemer. Karabucak, 85 m., 25.05.2002 1♂4♀; Kemer, 06.09.2002 1♂8♀. It has been collected from weeds in *Pinus brutia* and fields. **Distribution in Turkey:** Adana, Afyon, Amasya, Ankara, Antalya, Aydın, Çanakkale, Denizli, Diyarbakır, Erzurum, Gaziantep, Hatay, Kastamonu, Mardin, Mersin, Muğla, Ordu, Samsun, Siirt, Sinop (Dlabola, 1957, 1971; Linnavuori, 1965; Lodos & Kalkandelen, 1980b; Asche, 1982; Güçlü, 1996). **Remarks:** Known to Antalya.

***Pseudaraeopus lethierryi* (Mulsant et Rey, 1879)**

Materials: Manavgat. Bucakşeyhler, 24.07.1999 1♂; Örenşehir, 15.10.2001 1♀; Düzlerçamı: 280 m., 22.07.2001 1♀; Gazipaşa: Çalıpınar-Kahyalar, 20 m., 20.05.2002 1♀; Macarköy, 09.09.2001 1♀; Kemer: Olimpos Milli Parkı, 20.08.2002 1♀; Finike, Erenkavak, 65 m., 24.06.2002 1♀. It has been collected from weeds in fields. **Distribution in Turkey:** Aydın (Asche, 1982). **Remarks:** New for Antalya.

***Delphacodoides anaxarchi* (Muir, 1926)**

Materials: Manavgat, Bucakşeyhler, 13.08.1999 4♀; Alanya, Kargıcak, 09.09.2001 3♀; Serik, Camili, 20.08.2001 1♂1♀; Manavgat, Demirciler, 40 m., 18.08.2001 1♀. It has been collected from weeds in *Pinus brutia* forest. **Distribution in Turkey:** Antalya, Mersin (Dlabola, 1957, 1981; Asche, 1982). **Remarks:** Known to Antalya.

***Perkinsiella dorsata* (Melichar, 1905)**

Materials: Manavgat, 18.09.1998 1♂; Manavgat, 10.08.1999 1♂; Demirciler, 40 m., 20.06.2002 2♀; Karaöz, 70 m., 18.08.2001 1♂; Kemer, Çamyuva, 18.04.2001 3♀; Aksu, Topallar, 26.07.2001 1♂2♀; Alanya, Okurcalar, 09.09.2001 2♀. It has been collected from weeds in *Pinus brutia* forest. **Distribution in Turkey:** Mersin, Muğla (Kalkandelen, 1980; Dlabola, 1981; Asche, 1982). **Remarks:** New for Antalya.

Family: Meenoplidae Fieber, 1872***Meenoplus albosignatus* Fieber, 1866**

Materials: Termessos, Güllük Dağı, 900-1000 m., 22.07.2001 1♂; Gündoğmuş, Serinyaka, 625 m., 22.06.2002 1♂; Gazipaşa, Macarköy,

22.08.2002 1♀; İbradı, Başlar, 1440 m., 21.08.2002 1♂3♀ on *Quercus*. **Distribution in Turkey:** Adıyaman, Ankara, Bolu, Gaziantep, Hakkari, Malatya, Mardin, Muş (Dlabola, 1957, 1981; Linnavuori, 1965; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

Family: Achilidae Stal, 1866

***Cixidia pilatoi* D'Urso & Guglielmino, 1995)**

Materials: Manavgat, Demirciler, 105 m., 18.05.2002 2♂3♀ on *Pinus brutia* and *Myrthus communis*. **Distribution in Turkey:** Adana (Linnavuori, 1965). **Remarks:** New for Antalya. The record of Adana has been reported as *C. marginicollis*. This record possibly belongs to *C. pilatoi*.

Family: Dictyopharidae Spinola, 1839

***Callodictya krueperi* (Fieber, 1876)**

Materials: Gündoğmuş, Çiçekoluk, 960 m., 25.07.1999 1♀; Akseki, Murtiçi, 540 m., 25.07.2001 5♂7♀; Manavgat, Demirciler, 40 m., 24.07.2001 2♂; Demirciler, 40 m., 17.07.2002 1♂; Serik, Sarıabalı, 18.07.2002 1♀; Kaş, Kemerköy, 260 m., 13.07.2002 2♀; Dirgenler, 265 m., 13.07.2002 1♂; İbradı, Başlar, 1440 m., 21.08.2002 1♂3♀ on *Quercus*, *Myrthus communis* and *Centaurea*. **Distribution in Turkey:** Hatay, İzmir, Tunceli (Linnavuori, 1965; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Dictyophara (s. str.) asiatica* Melichar, 1912**

Materials: Kaş, Beldibi, 1400 m., 29.07.1999 1♂3♀; Manavgat, Bucakşeyhler, 45 m., 24.07.1999 1♂; Demirciler, 10 m., 17.08.1999 1♂1♀; Bucakşeyhler, 13.08.1999 1♀; Alanya, Obaköy, 25 m., 12.08.1999 1♀; Gündoğmuş, Çiçekoluk, 960 m., 25.07.2001 8♂17♀; Akseki, Murtiçi, 540 m., 25.07.2001 4♀; Manavgat, Demirciler, 40 m., 24.07.2001 3♂5♀; Bucakşeyhler, 45 m., 19.07.2001 3♂1♀; Alanya, Kargıcak, 21.07.2001 2♂; Manavgat, Demirciler, 20 m., 21.06.2002 1♀; Demirciler, 40 m., 20.06.2002 1♂2♀; Demirciler, 40 m., 17.07.2002 1♀; Kaş, Dirgenler, 265 m., 13.07.2002 1♀; Güllük Dağı, Araştırma Ormanı, 750 m., 19.07.2002 1♂; Serik, Dikmen, 18.07.2002 1♀; Hisarçandır, 770 m., 20.08.2002 1♂1♀; Kemer, Çamyuva, 20.08.2002 1♀; Olimpos Milli Parkı, 20.08.2002 1♂1♀; Sarıçınar Dağı, 20.08.2002 2♀; Manavgat, Hacıobası, 26.08.2003 1♀ on *Verbascum*, *Pistacia*, *Centaurea*, *Phlomis*, *Fontanesia phillyreoides*, *Quercus*, *Ficus carica*, *Myrthus communis*, *Vitex agnus-castus* and *Populus*. **Distribution in Turkey:** Adana, Amasya, Ankara, Aydın, Balıkesir, Bilecik, Bolu, Burdur, Denizli, Diyarbakır, Elazığ, Eskişehir, Erzincan, Isparta, İzmir, Kırklareli, Kütahya, Manisa, Muğla, Sakarya, Tunceli, Urfa, Van (Dlabola, 1957, 1981; Linnavuori, 1965; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Dictyophara iranica* Linnavuori, 1962**

Materials: Manavgat, Boztepe, Alara, 15.10.2001 1♀; Serik, Aspendos, Köprüçayı, 16.10.2001 1♀; Aspendos, 18.07.2002 1♂; Taşağıl, 60 m., 27.08.2003 1♂2♀ on *Tamarix*. **Distribution in Turkey:** Siirt (Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Dictyophara (s. str.) lindbergi* Metcalf, 1955**

Materials: Manavgat, 10 m., 20.07.1999 1♀; Serik, Dikmen, 18.07.2002 2♂1♀; Akseki, Güneykaya, 570 m., 25.07.1999 1♂1♀; Güllük Dağı, Araştırma Ormanı,

550 m., 19.07.2002 3♂1♀. It has been collected from weeds in *Pinus brutia* forest, *Ficus carica* and *Salix*. **Distribution in Turkey:** Adana, İzmir, Kütahya, Muğla, Tekirdağ (Dlabola, 1957; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Dictyophara (Euthremma) multireticulata* Mulsant et Rey, 1855**

Materials: İbradı, Başlar, 1440 m., 21.08.2002 1♀ on *Quercus*. **Distribution in Turkey:** Denizli, Van (Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Dictyophara (Chanithus) xiphias* Puton, 1884**

Materials: Manavgat, Demirciler, 10 m., 17.08.1999 1♂2♀; Demirciler, 40 m., 21.07.1999 1♀; Gündoğmuş, Çiçekoluk, 960 m., 25.07.2001 1♀; Manavgat, Bucakşeyhler, 45 m., 19.07.2001 1♂; Güllük Dağı, Araştırma Ormanı, 750 m., 19.07.2002 1♂3♀; Gazipaşa, Macarköy, 22.08.2002 2♀. On *Phlomis*, *Fontanesia phillyreoides*, *Pistacia terebinthus*, and *Quercus*. **Distribution in Turkey:** İzmir (Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

Family: Tropicuchidae Stal, 1866

***Trypetimorpha occidentalis* Huang et Bourgoïn, 1993**

Materials: Düzlerçamı, 280 m., 22.07.2001 1♀. It has been collected from weeds in *Pinus brutia* forest. **Distribution in Turkey:** Ankara (Demir, 1998). **Remarks:** New for Antalya.

Family: Tettigometridae Germar, 1821

***Tettigometra (Hystrigonia) hexaspina* Kolenati, 1857**

Materials: Korkuteli, Koru Dağı, Kartal Yaylası, 1600 m., 23.06.2002 1♂1♀; Söğütçük, 1010 m., 13.07.2002 1♀. It has been collected from weeds in fields. **Distribution in Turkey:** Ağrı, Ankara, Edirne, Gaziantep, Giresun, Isparta, Tekirdağ, Urfa (Dlabola, 1957; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Tettigometra (Metrolpaca) longicornis* (Signoret, 1866)**

Materials: Manavgat, Yukarışıklar-Tilkiler, 460 m., 14.05.2001 1♂1♀; Korkuteli, Koru Dağı, Kartal Yaylası, 1600 m., 23.06.2002 1♂4♀. It has been collected from weeds in fields. **Distribution in Turkey:** Ankara, Sivas (Dlabola, 1957, 1981). **Remarks:** New for Antalya.

***Tettigometra (Mitricephalus) eremi* Lindberg, 1948**

Materials: Manavgat, Yukarışıklar-Tilkiler, 460 m., 14.05.2001 11♂18♀; Güllük Dağı, Araştırma Ormanı, 750 m., 21.05.2002 3♂4♀; Korkuteli, Koru Dağı, Kartal Yaylası, 1600 m., 23.06.2002 8♂14♀. It has been collected from weeds in *Pinus brutia* forest, fields and *Salix*. **Distribution in Turkey:** Ankara, Aydın, Burdur, Çanakkale, İzmir, Kayseri, Kocaeli, Kütahya, Manisa, Sivas, Uşak (Lodos & Kalkandelen, 1980c; Dlabola, 1981). **Remarks:** New for Antalya.

***Tettigometra (Mitricephalus) leucophaea* (Preysslér 1792)**

Materials: Korkuteli, Söğütçük, 1010 m., 13.07.2002 5♂6♀; İbradı, Başlar, 1440 m., 21.08.2002 1♀; Elmalı, Çıglıkara, 1600 m., 28.08.2003 1♀. It has been collected from weeds in *Juniperus-Abies cilicia* forest and *Quercus*.

Distribution in Turkey: Adana, Ankara, Adıyaman, Ağrı, Bilecik, Bolu, Burdur, Çanakkale, Çankırı, Çorum, Diyarbakır, Edirne, Elazığ, İstanbul, İzmir, Mardin, Nevşehir, Sivas, Tekirdağ, Urfa (Dlabola, 1957; Linnavuori, 1965; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Tettigometra (s. str.) sulphurea* Mulsant et Rey, 1855**

Materials: Manavgat, Belenobası, 130 m., 15.04.2001 1♀; Bucakşeyhler, Seleukeia, 250 m., 23.04.2002 1♀; Bucakşeyhler, 70 m., 23.04.2002 1♂1♀. It has been collected from weeds in *Pinus brutia* forest. **Distribution in Turkey:** Adana, Ankara, Artvin, Aydın, Bilecik, Bursa, Diyarbakır, Elazığ, İzmir, Kütahta, Nevşehir, Sakarya, Urfa, Uşak, Van (Dlabola, 1957; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

***Tettigometra (s. str.) virescens* (Panzer, 1799)**

Materials: Kemer, Ovacık, 1150 m., 20.08.2002 1♂. It has been collected from weeds in *Cedrus libani* forest. **Distribution in Turkey:** Adana, Adıyaman, Ankara, Bursa, Diyarbakır, Elazığ, Erzincan, Gaziantep, Hatay, Iğdır, Mardin, Tunceli, Urfa, Van (Fahringer, 1922; Lodos & Kalkandelen, 1980c). **Remarks:** New for Antalya.

Family: Caliscelidae Amyot & Serville, 1834

***Bruchoscelis peculiaris* (Horvath, 1904)**

Materials: Manavgat, Demirciler, 40 m., 20.06.2002 1♀. On Graminae. **Distribution in Turkey:** Ankara, Yozgat (Dlabola, 1957; Kartal, 1985). **Remarks:** New for Antalya and endemic to Turkey.

***Ommatidiotus longiceps* Puton, 1896**

Materials: Serik, Dikmen, 18.07.2002 1♀. It has been collected from weeds in *Pinus brutia* forest. **Distribution in Turkey:** Diyarbakır, Mardin, Urfa (Lodos & Kalkandelen, 1988). **Remarks:** New for Antalya.

Family: Issidae Spinola, 1839

***Mycterodus (s. str.) lodosicus* Dlabola, 1980**

Materials: Termessos, Güllük Dağı, 900-1000 m., 22.07.2001 3♀; Güllük Dağı, 540 m., 22.07.2001 2♂; Araştırma Ormanı, 550 m., 19.07.2002 1♂; Araştırma Ormanı, 750 m., 19.07.2002 1♂ on *Phlomis*, *Quercus* and *Cytisus laburnum*. **Distribution in Turkey:** Aydın (Dlabola, 1980). **Remarks:** New for Antalya and endemic to Turkey.

***Mycterodus (Comporodus) spinicordatus* (Dlabola, 1983)**

Materials: Manavgat, Beşkonak, Köprülü Kanyon, 495 m., 07.06.2001 10♂6♀; Gündoğmuş, Güneycik, 210 m., 08.06.2001 1♂; Gazipaşa, Kahyalar, 22.08.2002 1♂; Manavgat, Beşkonak, Köprülü Kanyon, 495 m., 27.08.2003 1♂ on *Arbutus andrachne*, *Ceratonia siliqua* and *Nerium oleander*. **Distribution in Turkey:** Antalya (Dlabola, 1983). **Remarks:** Endemic to Turkey and known to Antalya.

***Mycterodus (Comporodus) tekneticus* (Dlabola, 1982)**

Materials: Manavgat, Yukarışıklar-Tilkiler, 460 m., 14.05.2001 3♂1♀; Akseki, Güçlüköy, 550 m., 21.04.2002 2♂; Gündoğmuş, Güneycik, 210 m., 21.04.2002 7♂1♀; Güneycik, 240 m., 21.04.2002 2♂1♀; Çiçekoluk, 960 m., 19.05.2002

1♂3♀; Güneycik, 210 m., 22.06.2002 3♂; Akseki, Erenkaya, 630 m., 22.06.2002 1♀; Kemer, Ovacık, 1150 m., 20.08.2002 1♀ on *Phlomis*, *Fontanesia phillyreoides*, *Cercis*, *Arbutus andrachne* and *Quercus*. **Distribution in Turkey:** Antalya (Dlabola, 1982). **Remarks:** Endemic to Turkey and known to Antalya.

***Tshurtshurnella alanyana* Dlabola, 1982**

Materials: Gündoğmuş, Çiçekoluk, 960 m., 25.07.1999 8♂17♀; Manavgat, Bucakşeyhler, 24.07.1999 1♂; Demirciler, 40 m., 21.07.1999 2♂; Demirciler, 40 m., 05.06.2001 1♂; Taşağıl, Kilimli, 40 m., 03.06.2001 2♂3♀; Gündoğmuş, Çiçekoluk, 960 m., 25.07.2001 17♂22♀; Alanya, Keşefli, 21.07.2001 4♂2♀; Manavgat, Bucakşeyhler, 45 m., 19.07.2001 1♀; Demirciler, 40 m., 24.07.2001 1♂; Termessos, Güllük Dağı, 900-1000 m., 22.07.2001 1♂; Manavgat, Demirciler, 40 m., 20.06.2002 6♂7♀; Akseki, Erenkaya, 630 m., 22.06.2002 1♂1♀; Gündoğmuş, Güneycik, 210 m., 22.06.2002 1♂; Güneycik, 210 m., 14.07.2002 1♀; Güllük Dağı, Araştırma Ormanı, 750 m., 19.07.2002 2♀; İbradı, Başlar, 1440 m., 21.08.2002 1♂1♀; Hisarçandır, 770 m., 20.08.2002 1♂3♀; Kemer, Sarıçınar Dağı, 1245 m., 20.08.2002 12♂7♀ on *Verbascum*, *Centaurea*, *Phlomis*, *Capparis*, *Fontanesia phillyreoides*, *Quercus*, Graminae, *Cistus creticus* and *Euphorbia*. **Distribution in Turkey:** Antalya (Dlabola, 1982). **Remarks:** Endemic to Turkey and known to Antalya.

***Latematium cingulatum* Dlabola, 1983**

Materials: Manavgat, Beşkonak, Köprülü Kanyon, 495 m., 07.06.2001 1♀; Termessos, Güllük Dağı, 900-1000 m., 22.07.2001 10♂4♀; Güllük Dağı, 540 m., 22.07.2001 2♂; Termessos, Güllük Dağı, 900-1000 m., 21.05.2002 1♂1♀; Güllük dağı, 900-1000 m., 19.07.2002 5♂3♀; Araştırma Ormanı, 550 m., 19.07.2002 1♂; Çıglık, 330 m., 19.07.2002 1♂ on *Arbutus andrachne*, *Cytisus laburnum* and shrubs. **Distribution in Turkey:** Antalya, Kütahya (Dlabola, 1983). **Remarks:** Endemic to Turkey and known to Antalya.

***Latilica antalyica* (Dlabola, 1986)**

Materials: Kaş, Kemerköy, 260 m., 13.07.2002 2♂2♀ on *Arbutus andrachne*. **Distribution in Turkey:** Antalya, Hatay (Dlabola, 1986). **Remarks:** Endemic to Turkey and known to Antalya.

***Latilica maculipes* (Melichar, 1906)**

Materials: Manavgat, Demirciler, 40 m., 24.07.2001 1♂1♀; Gündoğmuş, Çiçekoluk, 960 m., 25.07.2001 1♀; Serik, Sariabali, 18.07.2002 2♂1♀; İbradı, Başlar, 1440 m., 21.08.2002 1♀ on *Quercus*, *Myrthus communis* and maquis shrubs. **Distribution in Turkey:** Antalya, Hatay, Manisa, Muğla (Linnavuori, 1965; Dlabola, 1971, 1986; Lodos & Kalkandelen, 1981a). **Remarks:** Known to Antalya and known to Antalya.

***Latilica oertzeni* Matsumura, 1910**

Materials: Hisarçandır, 770 m., 20.08.2002 1♀; Kemer, Çamyuva, 20.08.2002 1♀. On *Cistus creticus* ve *Myrthus communis*. **Distribution in Turkey:** Antalya (Lodos & Kalkandelen, 1988). **Remarks:** Known to Antalya.

***Latilica retamae* (Linnavuori, 1962)**

Materials: Manavgat, Demirciler, 65 m., 14.04.2001 1♀; Demirciler, 40 m., 24.07.2001 1♂; Akseki, Murtiçi, 540 m., 25.07.2001 1♂ on *Quercus* and maquis

shrubs. **Distribution in Turkey:** Antalya (Lodos & Kalkandelen, 1988).
Remarks: Known to Antalya.

***Agalmatium bilobum* (Fieber, 1877)**

Materials: Korkuteli, Yazır-İmrahor, 950 m., 27.07.1999 1♀; Akseki, Erenkaya, 680 m., 25.07.1999 1♀; Alanya, Okurcalar, 12.05.2001 1♂1♀; Gazipaşa, Çalıpınar, 25 m., 12.05.2001 6♂6♀; Manavgat, Tilkiler, 470 m., 14.05.2001 1♂1♀; Yukarışıklar, 200 m., 14.05.2001 165♂152♀; Demirciler, 105 m., 11.05.2001 39♂2♀; Taşağıl, Kilimli, 40 m., 03.06.2001 1♂2♀; Beşkonak, 145 m., 07.06.2001 5♂2♀; Taşağıl, Kilimli, 60 m., 03.06.2001 7♂5♀; Taşağıl, Sağırın, 40 m., 03.06.2001 3♂; Taşağıl, 55 m., 07.06.2001 1♂; Demirciler, 40 m., 05.06.2001 2♂2♀; Demirciler, 65 m., 05.06.2001 1♂1♀; Kemer, 06.06.2001 1♀; Gündoğmuş, Çiçekoluk, 960 m., 25.07.2001 1♂3♀; Akseki, Murtiçi, 540 m., 25.07.2001 2♂; Manavgat, Demirciler, 105 m., 22.04.2002 1♂; Güllük Dağı, Araştırma Ormanı, 750 m., 21.05.2002 6♂; Alanya, Okurcalar, 20.05.2002 1♂; Gazipaşa, Çalıpınar-Kahyalar, 20 m., 20.05.2002 11♂18♀; Manavgat, Demirciler, 105 m., 18.05.2002 20♂40♀; Demirciler, 20 m., 21.06.2002 2♂; Demirciler, 105 m., 21.06.2002 2♂3♀; Demirciler, 40 m., 20.06.2002 2♀; Gündoğmuş, Güneycik, 210 m., 22.06.2002 5♂5♀; Akseki, Erenkaya, 630 m., 22.06.2002 10♂11♀; Elmalı, Gökpınar, 1200 m., 13.07.2002 1♂4♀; Akçay, 1210 m., 13.07.2002 2♂; Güllük Dağı, Araştırma Ormanı, 550 m., 19.07.2002 2♂1♀; Araştırma Ormanı, 750 m., 19.07.2002 17♂8♀; Finike, Dağbağ, 475 m., 13.07.2002 1♀; Çiğlık, 330 m., 19.07.2002 1♂; Korkuteli, Söğütçük, 1010 m., 13.07.2002 1♂1♀; Kaş, Kemerköy, 260 m., 13.07.2002 2♂1♀. It has been collected from weeds in *Pinus brutia* forest, on *Asphodelus aestivus*, *Verbascum*, *Phlomis*, *Fontanesia phillyreoides*, *Cytisus laburnum*, *Vitex agnus-castus* and *Cistus creticus*. **Distribution in Turkey:** Adana, Adıyaman, Afyon, Ankara, Aydın, Balıkesir, Bilecik, Burdur, Bursa, Çanakkale, Çorum, Denizli, Eskişehir, Gaziantep, Gümüşhane, Hatay, İzmir, Kırklareli, Kırşehir, Kocaeli, Kütahya, Malatya, Manisa, Muğla, Sakarya, Sivas, Tekirdağ, Tokat, Uşak, Yozgat (Linnavuori, 1965; Dlabola, 1981; Lodos & Kalkandelen, 1981a; Kartal, 1985). **Remarks:** New for Antalya.

***Bubastia (Acrestia) suturalis* (Fieber, 1877)**

Materials: Manavgat, Bucakşeyhler, 45 m., 19.07.2001 3♂1♀; Termessos, Güllük Dağı, 900-1000 m., 22.07.2001 1♂; Düzlerçamı, 280 m., 22.07.2001 1♀; Güllük dağı, Araştırma Ormanı, 750 m., 19.07.2002 2♂; Çiğlık, 330 m., 19.07.2002 3♂; Güllük Dağı, Araştırma Ormanı, 550 m., 19.07.2002 1♀; Kaş, Kemerköy, 260 m., 13.07.2002 1♀; Çamyuva, 20.08.2002 1♂1♀; Ovacık, 1150 m., 20.08.2002 1♀; İbradı, Akşahap-İbradı, 530 m., 21.08.2002 1♂; Manavgat, Beşkonak, Köprülü Kanyon, 495 m., 27.08.2003 1♂; Beşkonak, 180 m., 27.08.2003 1♂ on *Fontanesia phillyreoides*, *Quercus*, *Pistacia terebinthus* and *Myrthus communis*. **Distribution in Turkey:** Adana, Burdur, Hatay, İzmir, Muğla (Dlabola, 1957, Linnavuori, 1965; Lodos & Kalkandelen, 1981a). **Remarks:** New for Antalya.

Family: Flatidae Spinola, 1839

***Phantia subquadrata* (Herrich-Schaffer, 1838)**

Materials: Akseki, Güçlüköy, 610 m., 18.08.1999 1♀; Korkuteli, Kargalık, 1250 m., 27.07.1999 1♀; Akseki, Murtiçi, 540 m., 25.07.2001 12♂19♀; Termessos, Güllük Dağı, 540 m., 22.07.2001 1♀; Güllük Dağı, 900-1000 m., 22.07.2001 1♂; Araştırma Ormanı, 550 m., 19.07.2002 1♀; Araştırma Ormanı, 750 m.,

19.07.2002 1♂1♀; İbradı, Akşahap-İbradı, 530 m., 21.08.2002 1♀; Kemer, Sarıçınar Dağı, 1245 m., 20.08.2002 1♀. *Cytisus laburnum*, *Genista*, *Spartium junceum* and *Sesamum indicum*. **Distribution in Turkey:** Adana, Ankara, Aydın, Bilecik, Denizli, Diyarbakır, Edirne, Gaziantep, Isparta, İzmir, Konya, Manisa, Mardin, Muğla (Fahringer, 1922; Dlabola, 1957; Lodos & Kalkandelen, 1981b). **Remarks:** New for Antalya.

Family: Cicadidae Leach, 1815

***Lyristes plebejus* (Scopoli, 1763)**

Materials: Manavgat, Bucakşeyhler, 15-26.08.1997 3♂3♀; Demirciler, 65 m., 21.07.1999 1♂1♀; Akseki, Güneykaya, 570 m., 25.07.1999 1♂; Manavgat, Demirciler, 70 m., 22.07.1999 3♂; Akseki, Erenkaya, 680 m., 25.07.1999 3♂; Alanya, 24.07.1999 2♂; Korkuteli, Söğütcük, 570 m., 27.07.1999 1♂; Kaş, Beldibi, 1400 m., 29.07.1999 2♂1♀; Manavgat, Değirmenli, 26.07.1999 1♂; Termessos, Güllük Dağı, 900-1000 m., 22.07.2001 1♀; Araştırma Ormanı, 550 m., 19.07.2002 1♂; Gündoğmuş, Güneycik, 210 m., 14.07.2002 4♂2♀; Kemer, Sarıçınar Dağı, 1245 m., 20.08.2002 1♂. On *Pinus brutia*, *Olea europaea*, *Amygdalus*, *Vitex agnus-castus*, *Quercus*, *Pistacia terebinthus*, *Arbustus* and maquis shrubs. **Distribution in Turkey:** Adana, Ankara, Antalya, Artvin, Aydın, Balıkesir, Bursa, Denizli, Erzincan, Gaziantep, İzmir, İstanbul, Kırklareli, Manisa, Mardin, Muğla, Kütahya (Fahringer, 1922; Dlabola, 1957; Lodos & Kalkandelen, 1980b). **Remarks:** Known to Antalya.

***Cicadatra adanai* Kartal, 1980**

Materials: Gündoğmuş, Çiçekoluk, 960 m., 25.07.1999 1♀; Manavgat, Bucakşeyhler, 15-26.08.1997 1♂; Manavgat, 26.07.1999 3♂; İbradı, Üzümdere, 470 m., 18.08.1999 1♀; Manavgat, 30.07.1999 1♂; Demirciler, 40 m., 21.07.1999 1♂3♀; Demirciler, 70 m., 22.07.1999 1♂; Bucakşeyhler, 13.08.1999 1♂; Manavgat, 01.08.1999 1♂; Bucakşeyhler, 45 m., 19.07.2001 2♂1♀; Manavgat, 10 m., 26.07.2001 1♂; Gündoğmuş, Güneycik, 210 m., 22.06.2002 1♀; Güneycik, 210 m., 14.07.2002 1♂; Manavgat, Demirciler, 105 m., 21.06.2002 1♂; Güllük Dağı, Araştırma Ormanı, 550 m., 19.07.2002 1♀. On *Zea mays*, *Ficus carica*, *Olea europaea*, *Sesamum indicum*, *Fontanesia phillyreoides*, *Cistus creticus*, *Pinus brutia*, *Salix* and weeds. **Distribution in Turkey:** Adana (Kartal, 1980). **Remarks:** New for Antalya and endemic to Turkey.

***Cicadatra hyalina* (Fabricius, 1798)**

Materials: Manavgat, Demirciler, 40 m., 17.07.2002 1♀. On *Olea europaea*. **Distribution in Turkey:** Adıyaman, Ankara, Elazığ, Erzincan, Gümüşhane, Hakkari, Isparta, İzmir, Konya, Kahramanmaraş, Nevşehir, Niğde, Siirt, Urfa, Van (Dlabola, 1957; Lodos & Kalkandelen, 1981b; Kartal & Zeybekoğlu, 1999). **Remarks:** New for Antalya.

***Cicada mordoganensis* Boulard, 1979**

Materials: Manavgat, 29.07.1999 1♀; Demirciler, 70 m., 22.07.1999 13♂9♀; Demirciler, 65 m., 21.07.1999 7♂2♀; Değirmenli, 26.07.1999 1♂1♀; Alanya, Keşefli, 21.07.2001 7♂2♀; Manavgat, Demirciler, 105 m., 21.06.2002 2♂1♀. On *Olea europaea*, *Acacia*, and *Pinus brutia*. **Distribution in Turkey:** Antalya, İzmir, Muğla (Boulard, 1979; Lodos & Kalkandelen, 1981b). **Remarks:** It is only known from Antalya.

***Cicada lodosi* Boulard, 1979**

Materials: Düzlerçamı, 280 m., 22.07.2001 4♂1♀; Çığlık, 330 m., 19.07.2002 4♂3♀. *Pinus brutia* and *Olea europaea*. **Distribution in Turkey:** İzmir, Manisa (Boulard, 1979; Lodos & Kalkandelen, 1981b). **Remarks:** New for Antalya and endemic to Turkey.

***Cicada permagna* (Haupt, 1917)**

Materials: Manavgat, Bucakşeyhler, 18-28.06.1997 6♂3♀; Bucakşeyhler, 45 m., 19.07.2001 5♂; Akseki, Erenkaya, 630 m., 22.06.2002 1♂; Güllük Dağı, Araştırma Ormanı, 750 m., 19.07.2002 1♂1♀; Gündoğmuş, Çiçekoluk, 960 m., 14.07.2002 1♀; Kemer, Olimpos, 23.07.2003 1♂. On *Pinus brutia* and *Olea europaea*. **Distribution in Turkey:** Antalya, Mersin (Boulard, 1979; Dlabola, 1981). **Remarks:** Endemic to Turkey and known to Antalya.

***Tibicina haematodes* (Scopoli, 1763)**

Materials: Kaş, Beldibi, 1400 m., 29.07.1999 1♂. On *Pinus brutia*. **Distribution in Turkey:** İstanbul (Fahringer, 1922). **Remarks:** New for Antalya.

***Pagiphora aschei* Kartal, 1978**

Materials: Manavgat, Demirciler, 40 m., 21.07.1999 1♀; Akseki, Güneykaya, 570 m., 25.07.1999 1♂; Termessos, Güllük Dağı, 900-1000 m., 22.07.2001 1♀; Güllük dağı, 540 m., 22.07.2001 1♂1♀; Araştırma Ormanı, 550 m., 19.07.2002 1♀; Araştırma Ormanı, 750 m., 19.07.2002 1♂1♀; Manavgat, Demirciler, 17.07.2002 1♂. On *Ficus carica*, *Quercus*, *Arbutus andrachne* and *Ulmus*. **Distribution in Turkey:** Antalya (Kartal, 1983). **Remarks:** Known to Antalya.

***Cicadetta dimissa* (Hagen, 1856)**

Materials: Manavgat, Bucakşeyhler, 18-28.06.1997 1♂. On shrubs. **Distribution in Turkey:** Antalya, Aydın, Gümüşhane, Isparta, İzmir (Lodos & Kalkandelen, 1981b). **Remarks:** Known to Antalya.

Family: Cercopidae Leach, 1815***Trieophorella geniculata* (Horvath, 1881)**

Materials: Gündoğmuş, Güneycik, 210 m., 17.03.2002 1♀; Güneycik, 210 m., 21.04.2002 1♀; Serinyaka, 640 m., 19.05.2002 1♀. It has been collected from weeds in *Pinus brutia* forest and *Myrthus communis*. **Distribution in Turkey:** Adana, Kahramanmaraş, Konya, Samsun (Fahringer, 1922; Kartal, et al., 1994). **Remarks:** New for Antalya.

***Lepyronia coleoptrata* (Linnaeus, 1758)**

Materials: Manavgat, Değirmenli, 04.08.1999 2♂2♀; Bucakşeyhler, 13.08.1999 11♂7♀; Demirciler, 10 m., 17.08.1999 2♂2♀ Bucakşeyhler, 24.07.1999 5♂2♀; Bucakşeyhler, 30 m., 23.07.1999 1♂1♀; Manavgat, 10.08.1999 1♂; Demirciler, 65 m., 21.07.1999 1♀; Bucakşeyhler, 45 m., 24.07.1999 1♂2♀; Aksu, Perge, 27.07.1999 1♂1♀; Manavgat, 10 m., 20.07.1999 1♀; Demirciler, Külcüler, 150 m., 22.07.1999 1♂; Alanya, Okurcalar, 12.05.2001 1♂; Manavgat, Tilkiler, 220 m., 14.05.2001 2♂2♀; Demirciler, 40 m., 11.05.2001 1♂3♀; Demirciler, 40 m., 05.06.2001 1♂6♀; Finike, 06.06.2001 1♂; Gündoğmuş, Güneycik, 210 m., 08.06.2001 1♀; Manavgat, Bucakşeyhler, 45 m., 19.07.2001 1♂; Demirciler, 40 m., 24.07.2001 1♀; Alanya, Keşefli, 21.07.2001

1♀; Yeşilköy, 20.05.2002 2♂3♀; Okurcalar, 20.05.2002 3♀; Gazipaşa, Çalıpınar-Kahyalar, 20 m., 20.05.2002 1♂1♀; Manavgat, Demirciler, 20 m., 18.05.2002 2♂; Demirciler 40 m., 20.06.2002 3♂6♀; Korkuteli, Sülekler, 1300 m., 23.06.2002 3♂1♀; Kuru Dağ, Kartal Yaylası, 1600 m., 23.06.2002 4♂3♀; Manavgat, Demirciler, 65 m., 15.07.2002 1♂; Finike, 13.07.2002 1♀; Gazipaşa, Macarköy, 22.08.2002 2♀. It has been collected from weeds in *Pinus brutia* forest, on *Populus*, *Salix*, *Verbascum* and maquis shrubs. **Distribution in Turkey:** Adana, Afyon, Ankara, Artvin, Aydın, Bilecik, Bursa, Çanakkale, Çankırı, Çorum, Diyarbakır, Edirne, Erzincan, Gümüşhane, İzmir, Kars, Kütahya, Manisa, Mardin, Muğla, Muş, Sakarya, Samsun, Siirt, Tokat (Fähringer, 1922; Dlabola, 1957; Lodos & Kalkandelen, 1981c; Kartal, et. al., 1994). **Remarks:** New for Antalya.

***Neophilaenus campestris* (Fallen, 1805)**

Materials: Manavgat-Çeltikçi, 14.04.2001 1♀; Belenobası, 130 m., 15.04.2001 1♂5♀; Alanya, Okurcalar, 12.05.2001 3♀; Keşefli, 12.05.2001 8♂18♀; Gazipaşa, Çalıpınar, 25 m., 12.05.2001 2♂; Manavgat, Yukarışıklar-Tilkiler, 460 m., 14.05.2001 1♂3♀; Tilkiler, 220 m., 14.05.2001 2♂1♀; Yaylaalan, 540 m., 14.05.2001 1♀; Tilkiler, 470 m., 14.05.2001 1♂1♀; Demirciler, 40 m., 11.05.2001 1♂; Bucakşeyhler, Seleukeia, 250 m., 23.04.2002 2♀; Demirciler, 105 m., 22.04.2002 1♂2♀; Demirciler, 40 m., 22.04.2002 1♀; Gündoğmuş, Güneycik, 240 m., 21.04.2002 1♂; Çiçekoluk, 960 m., 19.05.2002 3♂1♀; Alanya, Okurcalar, 20.05.2002 2♀; Gazipaşa, Çalıpınar-Kahyalar, 20 m., 20.05.2002 1♂3♀. It has been collected from weeds in *Pinus brutia* forest and fields. **Distribution in Turkey:** Adana, Adıyaman, Ankara, Artvin, Bitlis, Bursa, Çanakkale, Eskişehir, Giresun, Hatay, İzmir, Kırklareli, Kütahya, Manisa, Muğla, Nevşehir, Samsun, Siirt, Sinop, Trabzon, Van (Linnavuori, 1965; Lodos & Kalkandelen, 1981c). **Remarks:** New for Antalya.

***Neophilaenus minor* (Kirschbaum, 1868)**

Materials: Korkuteli, Kuru Dağı, Kartal Yaylası, 1600 m., 23.06.2002 4♂4♀. It has been collected from weeds in *Juniperus* forest. **Distribution in Turkey:** Ankara, Konya, Sivas (Dlabola, 1957, 1981). **Remarks:** New for Antalya.

***Aphrophora corticea* Germar, 1821**

Materials: Manavgat, Yaylaalan, 545 m., 14.05.2001 1♂; Yukarışıklar-Tilkiler, 460 m., 14.05.2001 1♂3♀; Gündoğmuş, Serinyaka, 640 m., 19.05.2002 3♀; Güneycik, 240 m., 19.05.2002 1♀; Akseki, Güçlüköy, 575 m., 22.06.2002 1♀. It has been collected from weeds and shrubs in *Pinus brutia* forest and on *P. brutia*. **Distribution in Turkey:** Afyon, Aydın, Bilecik, Çanakkale, Isparta, Kütahya, Muğla, Tokat. (Lodos & Kalkandelen, 1981c). **Remarks:** New for Antalya.

***Philaenus signatus* Melchar, 1896**

Materials: Termessos, Güllük Dağı, 900-1000 m., 21.05.2002 1♂. On shrubs. **Distribution in Turkey:** Adana, İzmir, Kahramanmaraş, Muğla (Dlabola, 1957, 1971; Lodos & Kalkandelen, 1981c). **Remarks:** New for Antalya.

***Philaenus spumarius* (Linnaeus, 1758)**

Materials: Gündoğmuş, Güneycik, 210 m., 17.04.2001 2♂3♀; Manavgat, Demirciler, Külcüler, 170 m., 15.04.2001 7♂8♀; Manavgat-Çeltikçi, 14.04.2001 1♂; Belenobası, 130 m., 15.04.2001 13♂17♀; Demirciler, 65 m., 14.04.2001

6♂8♀; Saraçlı, 15.04.2001 1♂1♀; Hocalı, 215 m., 15.04.2001 2♂; Demirciler, 40 m., 14..04.2001 3♀; Yaylaalan, 540 m., 14.05.2001 25♂17♀; Tilkiler, 470 m., 14.05.2001 7♂2♀; Demirciler, 65 m., 11.05.2001 14♂25♀; Alanya, Okurcalar, 12.05.2001 4♂5♀; Keşefli, 12.05.2001 6♀; Manavgat, Tilkiler, 220 m., 14.05.2001 21♂18♀; Yaylaalan, 545 m., 14.05.2001 3♂3♀; Gazipaşa, Çalınar, 25 m., 12.05.2001 3♂2♀; Yukarışıklar-Tilkiler, 460 m., 14.05.2001 38♂51♀; Beşkonak, 145 m., 07.06.2001 1♂; Demirciler, 40 m., 05.06.2001 1♀; Evrenleriyavşı, Söylerkale, 250 m., 16.03.2002 1♀; Demirciler, 40 m., 22.04.2002 5♂7♀; Bucakşeyhler, 70 m., 23.04.2002 9♂6♀; Bucakşeyhler, Seleukeia, 250 m., 23.04.2002 2♂3♀; Demirciler, Külcüler, 230 m., 22.04.2002 2♂1♀; Demirciler, 105 m., 22.04.2002 2♂3♀; Demirciler, 65 m., 22.04.2002 14♂12♀; Gündoğmuş, Güneycik, 240 m., 21.04.2002 2♂1♀; Serinyaka, 640 m., 19.05.2002 15♂5♀; Çiçekoluk, 960 m., 19.05.2002 3♂; Manavgat, Demirciler, 20 m., 18.05.2002 1♂3♀; Demirciler, 105 m., 18.05.2002 3♂; Gazipaşa, Çalınar-Kahyalar, 20.05.2002 2♂3♀; Alanya, Okurcalar, 20.05.2002 1♂; Akseki, Güçlüköy, 575 m., 22.06.2002 1♀. It has been collected from weeds in *Pinus brutia* forest, on *Myrthus communis*, *Pistacia terebinthus*, *Phlomis* and fields. **Distribution in Turkey:** Ağrı, Amasya, Ankara, Artvin, Aydın, Balıkesir, Bilecik, Bitlis, Bursa, Çanakkale, Elazığ, Erzincan, Erzurum, Giresun, Gümüşhane, Hakkari, İzmir, Kahramanmaraş, Kars, Kocaeli, Kırklareli, Kütahya, Malatya, Manisa, Mardin, Muğla, Ordu, Rize, Samsun, Siirt, Sinop, Sivas, Tekirdağ, Tokat, Trabzon, Van (Dlabola, 1957, 1981; Linnavuori, 1965; Lodos & Kalkandelen, 1981c; Kartal, et. al., 1994). **Remarks:** New for Antalya.

Family: Membracidae Rafinesque, 1815

***Gargara genistae* (Fabricius, 1775)**

Materials: Termessos, Güllük Dağı, 540 m., 22.07.2001 5♀; Güllük Dağı, 900-1000 m., 22.07.2001 2♂8♀; Güllük Dağı, 900-1000 m., 19.07.2002 7♂5♀; Araştırma Ormanı, 550 m., 19.07.2002 8♀; Araştırma Ormanı, 750 m., 19.07.2002 19♀; Çığlık, 330 m., 19.07.2002 3♀. On Fabaceae shrubs and *Cytisus laburnum*. **Distribution in Turkey:** Ankara, Aydın, Balıkesir, Çorum, Erzurum, İzmir, Muğla (Dlabola, 1957; Lodos & Kalkandelen, 1981c). **Remarks:** New for Antalya.

***Centrotus cornutus* (Linnaeus, 1758)**

Materials: Termessos, Güllük Dağı, 900-1000 m., 21.05.2002 1♂1♀. On Fabaceae shrubs. **Distribution in Turkey:** Artvin, Aydın, Bilecik, Bursa, Çorum, Denizli, Erzincan, Edirne, Giresun, İstanbul, İzmir, Kocaeli, Kütahya, Kırklareli, Ordu, Sakarya, Tekirdağ (Fahringier, 1922; Lodos & Kalkandelen, 1981c). **Remarks:** New for Antalya.

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