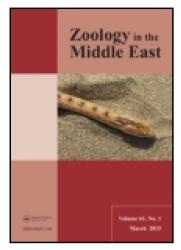
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# Some new aphid records for the Turkish aphidofauna (Hemiptera: Aphidoidae)

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#### SHORT COMMUNICATION

## Some new aphid records for the Turkish aphidofauna (Hemiptera: Aphidoidae)

Özhan Şenol<sup>a</sup>, Hayal Akyıldırım Beğen<sup>b</sup>, Gazi Görür<sup>a\*</sup> and Gizem Gezici<sup>a</sup>

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Studies on the Turkish aphidofauna started in the early 20<sup>th</sup> century. Çanakçıoğlu (1975) listed some 258 aphid species in his book "The Aphidoidea of Turkey". Following this publication, some studies were conducted locally but many more researches were carried out after the 1990s. Remaudiere, Toros, and Özdemir (2006) listed 417 species, and a checklist of the Turkish aphidofauna by Görür, Akyıldırım, Olcabey, and Akyürek (2012) listed 480 species in 141 genera. Recently, Şenol, Akyıldırım, Görür, and Demirtaş (2014) and Şenol, Akyıldırım Begen, Görür, and Demirtaş (2014) added 28 new records, whilst Barjadze and Özdemir (2014) recorded one and Barjadze, Özdemir, and Blackman (2014) two species new to the aphid fauna of Turkey. In the course of studies conducted in 2012 and 2013, we found seven aphid species in the Inner West Anatolian part of Turkey that are new to the Turkish aphid fauna, with one of them being an alien species for the country. With these findings, the aphidofauna of Turkey has increased to 532 species belonging to 142 genera. 9% of them are aliens. Akyıldırım, Şenol, Görür and Demirtaş (2013) found that there are 41 alien aphid species in Turkey.

Identification of our material was carried out according to Blackman and Eastop (2014) and Quednau (1999, 2003) based on the apterous and alatae viviparous individual features. Taxonomy follows Favret (2014) and Nafria (2014). The geographic distribution of the species is given according to Holman (2009) and Blackman and Eastop (2014). Voucher samples are deposited at the Biology Department of Niğde University, Niğde, Turkey.

Aphis astragalicola Holman & Szelegiewicz, 1971

Material: Samples consisting of blackish individuals feeding on a shoot of *Astragalus* sp. were collected from Afyonkarahisar (between Karahallı-Sivaslı district) on 18.vi.2012. – Distribution: Russia.

Aphis carduicola Stekolshchikov, 2005

Material: Samples consisting of green individuals feeding on *Carduus* sp. were collected from Uşak (Başören village) on 13.vi.2012. – Distribution: Southern Russia and Georgia.

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Chaitophorus niger Mordvilko, 1929 (syn.: Pseudomicrella jacobi Börner, 1950)

Material: Samples were collected from a population consisting of dark brownish individuals feeding on the undersides of *Salix* sp. leaves from Uşak (Banaz district) on 17.v.2013. – Distribution: Asia and Europe.

#### Dysaphis pyraria Narzikulov, 1961

Material: Samples were collected from a population consisting of pale green individuals feeding on the undersides of *Pyrus* sp. leaves from Kütahya (Simav district) on 20.vi.2013. – Distribution: Previously known only from Tajikistan.

#### Hyalopterus persikonus Miller, Lozier & Foottit, 2008

Material: Eighteen samples were collected from populations consisting of pale green individuals with white cross-bands on the abdomen, feeding on the undersides of Prunus armeniaca leaves (some information was given at the 22th National Biology Congress of Turkey): Kütahya (Simav district) on 24.iv.2013, Uşak (Ulubey district) on 17.v.2013, Uşak (Banaz district) on 17.v.2013, Afyonkarahisar on 18.v.2013, Afyonkarahisar (Çay district) on 18.vi.2013, Afyonkarahisar (Hocalar district) on 18.vi.2013, Kütahya (Gediz district) on 20.vi.2013, Kütahya (between centre and Gediz district) on 20.vi.2013, Kütahya (between centre and Tavşanlı district) on 21.vi.2013, Kütahya (between Gediz and Murat Mountain) on 22.vi.2013, Afyonkarahisar (Gecek village) on 22.vi.2013, Afyonkarahisar (Sandıklı district) on 13.vii.2013, Kütahya (Tavşanlı district) on 15.vii.2013, Afyonkarahisar (Sinanpaşa district) on 22.viii.2013, Kütahya (between Gediz-Simav district) on 23.viii.2013, Uşak (Banaz district) on 25.ix.2013, Kütahya (Saphane district) 27.ix.2013, Afyonkarahisar (Hocalar district) on 29.ix.2013; and ten samples (with the same appearance as P. armeniaca populations) from the undersides of *Prunus persica* from Afyonkarahisar (Suhut district) on 30.vii.2012, Afyonkarahisar on 18.v.2013, Afyonkarahisar (Suhut district) on 19.v.2013, Afyonkarahisar (Gazlıgöl village) on 19.v.2013, Afyonkarahisar (Çay district) on 17.vi.2013, Kütahya (Altıntaş district) on 22.vii.2013, Afyonkarahisar (Sandıklı district) on 20.viii.2013, Afyonkarahisar (İhsaniye district) on 21.viii.2013, Afyonkarahisar (İşçehisar district) on 21.viii.2013, and Uşak (Banaz district) on 25.x.2013. – Distribution: Europe and Asia.

#### Macrosiphum pachysiphon Hille Ris Lambers, 1966

Material: Samples were collected from a population composed of individuals feeding on the undersides of *Rubus* sp. leaves from Kütahya (between Tavşanlı-Domaniç district) on 12.vii.2012. – Distribution: India and Pakistan.

#### Phylloxera glabra (von Heyden, 1837)

Material: Two samples were examined from Kütahya (between Simav-Hisarcık) (16.ix.2013) and Kütahya (between Gediz-Hacıbaba village) (17.ix.2013). Small reddish orange individuals were feeding on the undersides of *Quercus* sp. leaves, and they caused distinctive yellowish spots on the leaves of the host plant. – Distribution: Europe.

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