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## **New distributional records on the subfamily Aphidiinae (Hymenoptera: Braconidae) in Black Sea Region, Turkey**

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**Abstract:** In the present study specimens of Aphidiinae (Hymenoptera: Braconidae) were collected from Black Sea Region of Turkey between the years 2001 and 2004. A total of 12 species belonging to 3 genera of Aphidiinae.

**Key words:** Aphidiinae, Braconidae, Hymenoptera, Black Sea Region, Turkey.

### **Introduction**

Aphidiines are small wasps, with an adult size ranging from ~1 mm to several mm They are solitary obligatory endoparasitoids of aphids (STARY 1970). Over 250 species of Aphidiinae are known from West Palaearctic region (ACHTERBERG 2004). Of these, about 50 species have been recorded from Turkey (ASLAN et al., 2004, ÇETIN ERDOĞAN et al. 2008 a, b, GÜZ & KILINÇER 2005, OLMEZ & ULUSOY 2003, ŞAHBAZ & UYSAL 2006, YU et al. 2005, EL-MALI et al. 2004).

This research work was carried out in order to identify the species and genera of Aphidiinae (Hymenoptera) collected from different provinces of Black Sea Region. The study showed a total 12 species of aphidiins belonging to 3 genera.

### **Material and Methods**

Black Sea Region is situated in the north of Anatolia. This coastal region receives abundant rainfall during all year. Habitats include forests, grasses and meadows. Samples of aphid parasitoids were collected by sweeping between 2001-2004 from several different provinces (Amasya, Artvin, Bayburt, Çankırı, Gümüşhane, Bolu, Kastamonu, Ordu, Sinop, Samsun, Tokat) in Black Sea region of Turkey. Specimens are deposited in the collection of the Zoological Museum of the Department of Biology, Trakya University-Edirne.

## Results

### *Aphidius absinthii* MARSHALL 1896

Material examined: Amasya-Yolyanı 30.06.2004, ♀.

General distribution: Oriental Palaearctic.

### *Aphidius avenae* HALIDAY 1834

Material examined: Çankırı – Ilgaz – Derbent Motel 30.08.2002, ♀; Kastamonu – Daday – Ballıdağ 01.07.2004, ♀; Ordu – Akkuş – Y.Düğencili 05.07.2003, ♀; Tokat – Almus – Çilhane 02.09.2003, ♀.

General distribution: Nearctic, Oriental, Palaearctic.

### *Aphidius ervi* HALIDAY 1834

Material examined: Amasya – Kale 07.04.2004, ♀; Yıldızköy 29.06.2004, ♂; Yolyanı 30.06.2004 ♀; Bayburt – Çerçi 30.08.2004, ♀; Konursu 30.08.2004, 2♂♂; Çorum – Kuşsaray 29.06.2004, ♀, 2♂♂; Kastamonu – Ilgaz Dağı – Çatören 03.07.2001, ♀, ♂; Ordu – Mesudiye – Mahmudiye 06.07.2004, 3♀♀, 9♂♂; Samsun – Havza – Mismiliağaç 02.07.2003, ♀; Kavak – Biçi 02.07.2003, 2♀♀; Sinop – Demirci 11.06.2002, ♀; Kabalı 11.06.2002, 3♀♀, 6♂♂; Tokat – Çamağzı 01.07.2004, ♀; Pazar – Ballica 07.07.2003, ♀; Taşçı – Çiftlik 06.07.2003, ♀.

General distribution: Australasian, Ethiopian, Nearctic, Neotropical, Oceanic, Oriental, Palaearctic.

### *Aphidius funebris* MACKAUER 1961

Material examined: Kastamonu – Daday – Ballıdağ (1950m) 01.07.2001, ♀.

General distribution: Oceanic, Oriental, Palaearctic.

### *Aphidius matricariae* HALIDAY 1834

Material examined: Çorum – Kuşsaray 29.06.2004, ♀.

General distribution: Ethiopian, Nearctic, Neotropical, Oceanic, Oriental, Palaearctic.

### *Aphidius rosae* HALIDAY 1834

Material examined: Sinop – Boyabat – Avdullu – Çangal Dağı 02.07.2001, ♀.

General distribution: Ethiopian, Nearctic, Neotropical, Oceanic, Oriental, Palaearctic.

### *Aphidius salicis* HALIDAY 1834

Material examined: Artvin – Varlık 03.09.2004, ♂; Kastamonu – Daday – Sarpun 29.08.2002 2♂♂; Ilgaz Dağı (1850-2100m) 30.08.2002, ♂.

General distribution: Australasian, Nearctic, Neotropical, Oceanic, Oriental, Palaearctic.

***Aphidius transcaspicus* TELENGA 1958**

**M a t e r i a l e x a m i n e d :** Amasya – Merzifon – Uzunağaç 09.07.2003, ♀; Gümüşhane – Şiran – Arıtış 02.07.2004, ♀; Ordu – Korgan – Belalan 31.08.2003, ♂; Ünye – Çatalpınar 05.07.2003, ♀; Sinop – Kabalı – 11.06.2002, ♀; Tokat – Taşçı – Çiftlik 06.07.2003, ♀.

**G e n e r a l d i s t r i b u t i o n :** Oriental Palaearctic.

***Ephedrus plagiator* (NEES 1811)**

**M a t e r i a l e x a m i n e d :** Amasya – Taşova – Borabay 29.06.2004, ♂; Artvin – Varlık 03.09.2004, ♀; Bolu – Çaydurt 28.06.2001, ♀; Gümüşhane – Kelkit – Yeniköy 29.08.2004, ♀; Gümüşhane – Zigana Geçidi 03.07.2004, ♀; Kastamonu – Daday – Ballıdağ 01.07.2001, 3 ♀ ♀; Ordu – Akkuş – Y. Düğencili 05.07.2003, ♀; Gürgentepe 06.07.2004 3 ♀ ♀, 2 ♂ ♂; Ordu – Mesudiye – Mahmudiye 06.07.2004, ♀, ♂; Samsun – Kavak – Boğaziçi 28.08.2003, ♀; S. Pazarı – A.Tepe Mevkii 03.07.2003, ♀; Sinop – Kabalı 11.06.2002, ♀; Tokat – Kemalpaşa 30.06.2004, 2 ♀ ♀; Niksar – Çamiçi 05.07.2003, 3 ♀ ♀; Taşçı – Çiftlik 06.07.2003, ♀; Trabzon – Çaykara – Uzungöl 04.07.2004, ♀, ♂.

**G e n e r a l d i s t r i b u t i o n :** Australasian, Neotropical, Oceanic, Oriental, Palaearctic.

***Ephedrus persicae* FROGGATT 1904**

**M a t e r i a l e x a m i n e d :** Bolu – Aladağ – Çepni Yaylası 27.08.2002, ♂; Tokat – Kemalpaşa 30.06.2004, ♀

**G e n e r a l d i s t r i b u t i o n :** Australasian; Ethiopian; Nearctic; Neotropical; Oriental; Palaearctic.

***Praon volucre* (HALIDAY 1833)**

**M a t e r i a l e x a m i n e d :** Amasya – Gümüş – Hacıköy 07.04.2004, ♂; Merzifon 04.07.2004 ♀; Taşova – Borabay Gölü 08.07.2003, ♀; Taşova – Borabay 29.06.2004, ♂; Bolu – Aladağ – Çepni Yaylası 27.08.2002, ♂; Gümüşhane – Şiran – Yeşilbük 29.08.2004, ♀; Ordu – Mesudiye – Mahmudiye 06.07.2004, ♂; Samsun – Kavak – B.içi 02.07.2003, ♂; Tokat – Almus – Gümelenönü 02.09.2003, ♂; Kemalpaşa 30.06.2004, ♂; Niksar – Ormanbeyli 06.07.2003, ♂; Turhal – Doğanlı Çiftliği 30.06.2004, ♂; Turhal – Üçyol 07.07.2003, ♂.

**G e n e r a l d i s t r i b u t i o n :** Neotropical, Oriental, Palaearctic.

***Praon yomenae* TAKADA 1968**

**M a t e r i a l e x a m i n e d :** Tokat – Çamağzı 01.07.2004 ♂; Turhal – Doğanlı Çiftliği 30.06.2004 2 ♂ ♂.

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**Zusammenfassung**

In vorliegender Studie werden aus der türkischen Region des Schwarzen Meeres im Zeitraum 2001 bis 2004 gesammelte Belege von Aphidiinae (Hymenoptera: Braconidae) behandelt. Insgesamt konnten 12 Arten aus drei Gattungen der Familie Aphidiinae nachgewiesen werden.

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