

## AN INVESTIGATION ON TURKISH *SPHEGINA* MEIGEN, 1822 (DIPTERA: SYRPHIDAE)

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ABSTRACT: Materials of the genera *Sphegina* sampled from Kahramanmaraş, Kastamonu and Bolu between 1993 and 2008 are presented. Four species of *Sphegina* were found to occur in Turkey. *Sphegina clavata* (Scopoli, 1763) is a new record for the fauna of Turkey.

KEY WORDS: Diptera, Syrphidae, *Sphegina*, new record, Turkey.

Members of the genus *Sphegina* can be found visiting white Apiaceae and a wide scale of other flowers in shaded, deciduous and coniferous woodland ecosystems. Larvae were usually observed in wet situations under the bark of trees or in sap run (Rotheray, 1993).

Until now four species of the genus *Sphegina* have been recorded from Turkey, by Turkish and foreign researchers. *Sphegina alaoglu* Hayat, 1997 (Hayat, 1997) *Sphegina clunipes* (Fallén, 1816) (Aktas & Sarıbiyik 1996; Hayat, 1997; Sarıbiyik, 2009) *Sphegina elegans* Schummel, 1843 (Speight, 2008) and *Sphegina sibirica* Stackelberg, 1953 (Reemer & Smit, 2007) were hitherto reported for the Turkish fauna.

### MATERIAL AND METHODS

Additional data on a further four species of *Sphegina* has been obtained from material collected by the author between 1993 and 2008 from the districts Kastamonu and Bolu of the Turkish Blacksea region. The specimens have been identified by C. Claussen (Flensburg/ Germany) and S. Sarıbiyik.

The specimens are preserved in the private collection of the author.

### RESULTS

As a result of this study, four species of *Sphegina* were found to occur in Turkey. *Sphegina clavata* (Scopoli, 1763) is a new record for fauna of Turkey. Distribution of the species in Turkey and rest of world was stated.

#### *Sphegina clavata* (Scopoli, 1763)

**Material examined:** 1 ♀, Kastamonu, Karadere village, 1050 m., 07.VIII.1999.

**Distribution in Turkey:** This is a new record for the Turkish fauna.

**Range:** Netherlands, Belgium, France (Paris basin, Vosges, Alps); the Pyrenees and mountainous parts of Central Europe; Italy, Montenegro, Serbia, Slovenia, Greece (Speight, 2008).

**Flowers visited:** White umbellifers.

***Sphegina clunipes* (Fallén, 1816)**

**Material examined:** 2 ♂♂, Bolu, Yedigöller, main road 22. km., Gurbet taşı locality, 1400 m., 09.VII.1996, 1 ♂, 1 ♀, Kastamonu, Ilgaz Mountain National Park, 1875 m., 03.VII.1999, 1 ♀, 1600 m., 06.VIII.1999, 1 ♂, Yukarı İsmaili village, 1400 m., 08.VII.1999, 2 ♂♂, 3 ♀♀, Ilgaz Mountain National Park, Tüfekçi village, Diphan locality, 1500 m., 10.VI.2000, 8 ♂♂, Tosya, Dipsiz göl, 1000 m., 24.VI.2000, 2 ♂♂, Ilgaz Mountain National Park, Tüfekçi village vicinity, 1700 m., 25.VI.2000, 2 ♂♂, 1♀, Kastamonu, Daday, Ballıdağ, 1700 m., 22.V.2007, 4 ♂♂, 5♀, Kastamonu, Daday, Ballıdağ, 1700 m., 09.VI.2007, 2 ♂♂, 3 ♀♀, Kahramanmaraş, Andırın, Akifiye village, 1600m., 10.VII.2008, 4 ♂♂, 2 ♀♀, Kahramanmaraş, Andırın, Akifiye village, 1600m., 07.VIII.2008.

**Distribution in Turkey:** Kastamonu and Kayseri (Aktas & Sarıbiyik, 1996), Artvin (Hayat, 1997), Kastamonu (Sarıbiyik, 2003a,b, 2009).

**Range:** From Fennoscandia south to Iberia; from Ireland eastwards through most of Europe into European parts of Russia and the Caucasus; through Siberia to the Pacific coast; Japan (Speight, 2008).

**Flowers visited:** White umbellifers; *Ranunculus*.

***Sphegina elegans* Schummel, 1843**

**Material examined:** 1 ♀, Kastamonu, Karadere village, 1050 m., 07.VIII.1999.

**Remarks:** The specimen agrees morphologically completely with dark females of *S. elegans* from Central Europe. It differs from the female of the closely related *S. alaoghui* which gender was shortly described by Mutin (1998) under the name *S. pontica*, by the yellowish apical tarsomere of the front and middle legs.

**Distribution in Turkey:** Turkey (Speight, 2008).

**Range:** From Fennoscandia south to the Pyrenees and Spain; from Ireland eastwards through central and southern Europe (northern Italy, the former Yugoslavia, and Northern Greece) into European parts of Russia to the Caucasian mountains. It also known from Samos Island in the Mediterranean near the coast of Turkey (Speight, 2008).

**Flowers visited:** White umbellifers.

***Sphegina sibirica* Stackelberg, 1953**

**Material examined:** 1 ♂, Kastamonu, Bostan village, 23.VI.1999, 1400 m., 2 ♂♂, 1200 m., 03.VII.1999, 1 ♀, Ilgaz Mountain National Park, 1875 m., 03.VII.1999, 1 ♂, 1♀, Kastamonu, Daday, Ballıdağ, 1700 m., 22.V.2007, 2 ♂♂, 2♀, Kastamonu, Daday, Ballıdağ, 1700 m., 09.VI.2007.

**Distribution in Turkey:** Trabzon (Reemer & Smit, 2007).

**Range:** From northern Fennoscandia south to central France; from Britain (Scotland to southern England) eastwards through central Europe and European parts of Russia to the Caucasus and into Siberia as far as Kamchatka and Khabarovsk. *S.sibirica* seems to be spreading rapidly in Europe (Speight 2008).

**Flowers visited:** White umbellifers.

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