

Short communication

The first report of two new genera of the subfamily Tephritinae (Dip.: Tephritidae) from Iran

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چکیده

طی مطالعه‌ی مگس‌های خانواده‌ی Tephritidae در استان‌های آذربایجان غربی، آذربایجان شرقی، اردبیل و کردستان، دو گونه به نام‌های *Euaresta bullans* (Wiedemann, 1830) و *Sphenella marginata* (Fallén, 1814) شناسایی گردید که هر دو جنس و گونه برای اولین بار از ایران گزارش می‌شوند.

The family Tephritidae is one of the most economically important families of acalyprate Diptera. They are almost all phytophagous. Some species are serious pests in agriculture and other species useful for the control of weeds. Larvae develop in fruits and flowers of Asteraceae plants, in galls on stems and roots and mine leaves (White & Elson-Harris, 1992). In a study on the tephritid fly fauna in Azerbaijan, Ardabil and Kurdistan Provinces, two species and two genera were identified as new records for Iran. Adult insects were reared from flower heads of Asteraceae plants and/or swept by a standard insect net during 2008-2009. The specimens are deposited at the Zoological Museum of the Agriculture Faculty, University of Tehran, Karaj. The identification of the species was made possible by Dr. Valery A. Korneyev (Schmalhausen Institute of Zoology, NAS of Ukraine). The species and their localities are as follows:

***Euaresta bullans* (Wiedemann, 1830)**

(Fig. 1)

Material examined – 3 ♀♀, 1 km west Namin, Ardabil province, 1400 m, N: 38° 24.892', E: 48° 28.065', ex: *Xanthium spinosum*, date of collecting: 16.09.2008, date of exit: 22.09.2008; 7 ♂♂, 7 ♀♀, 5 km east Meshkin Shahr, Ardabil province, 1300 m, N: 38° 25.189', E: 47° 40.976', date of collecting: 16.09.2008, date of exit: 20.09.2008; 3 ♂♂, 4 ♀♀, 10 km south Ahar, Azerbaijan-e Sharghi province, 1300 m, N: 38° 26.112', E: 47° 14.790', date of collecting: 16.09.2008, date of exit: 22.09.2008; 2 ♂♂, 3 ♀♀, Band, Urmieh, Azerbaijan-e Gharbi province, ex: *X. spinosum*, 25.09.2008, (leg. Mohamadzade).

Distribution – Southern Europe from Spain to Southern Ukraine, Turkey, Israel, North America, South America, Southern Africa and Australia (Norrbon *et al.*, 1999).

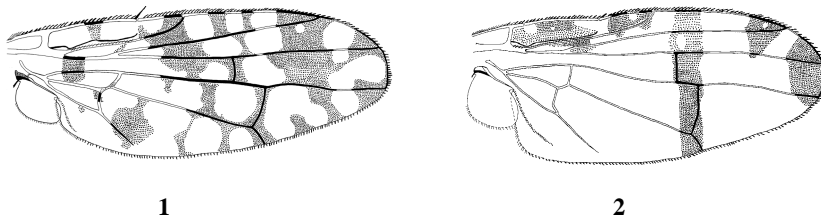
Remarks – This species was originally recorded from the New World, as all other species of the genus. It has been apparently introduced to other regions through commercially transportation of its host plant, *X. spinosum*.

***Sphenella marginata* (Fallén, 1814)**

(Fig. 2)

Material examined – 1 ♂, Abidar mountain, Sanandaj, Kurdistan province, 1950 m, N: 35° 18.107', E: 46° 56.488', ex: *Senecio vulgaris*, date of collecting: 18.05.2009, date of exit: 02.06.2009; 2 ♀♀, Ghojr, Saral, Kurdistan province, 2100 m, N: 35° 46.049', E: 46° 57.312', 05.06.2009; 1 ♂, Dezli, near to Iraq border, Kurdistan province, 2400 m, N: 36° 4.592', E: 46° 49.660', 07.06.2009, (leg. Mohamadzade).

Distribution – Europe, Asian Russia (West Siberia), Egypt, Israel and Afghanistan (Freidberg & Kugler, 1989; Norrbom *et al.*, 1999).



Figures 1-2. Wing. 1. *Euaresta bullans*; 2. *Sphenella marginata*. (original).

References

- Freidberg, A. & Kugler, J. (1989) *Fauna Palaestina, Insecta IV, Diptera: Tephritidae*. 212 pp. The Israel Academy of Sciences and Humanities.
- Norrbon, A. L., Carroll, L. E., Thompson, F. C., White, I. M. & Freidberg, A. (1999) Systematic database of names. pp. 65-299 in Thompson, F. C. (Ed.) *Fruit fly expert identification system and systematic information database*. Vol. 9, 524 pp. Backhuys Publishers.

White I. M. & Elson-Harris M. M. (1992) *Fruit flies of economic significance: their identification and bionomics*. 601 pp. CAB International, London.

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