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## **New records of jumping plant-lice from Turkey (Hemiptera, Psylloidea)**

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### **Abstract**

Between 1987-1992, the jumping plant-louse fauna of the region of Erzurum was surveyed. The material contains 23 species, 7 of which are new for the fauna of Turkey.

**Key words:** Hemiptera, Psylloidea, Turkey, faunistics, new records.

### **Zusammenfassung**

In den Jahren 1987-1992 wurde die Fauna der Blattflöhe (Hemiptera, Psylloidea) in der Umgebung von Erzurum untersucht. Es konnten 23 Arten festgestellt werden, von denen 7 neu für die Türkei sind.

### **Introduction**

The large surface of land covered by Turkey is subdivided into several climatically distinct regions. The area of Erzurum, where this study was conducted, has a continental climate characterised by long, severe winters and hot, dry summers. The presence of high mountains and narrow, deep valleys in the region produces a variety of local climates with different ecological conditions. These are the main cause for the richness and diversity of the regional fauna and flora.

Information on the Turkish psyllid fauna is limited. Most studies have been conducted in the province of Izmir and surrounding areas (KLIMASZEWSKI & LODOS 1977, 1979, 1980; ÖNUÇAR 1983; ÖNUÇAR & ULU 1991). BURCKHARDT (1988) recorded some species from northeastern Anatolia. Other studies, treating particular groups of jumping plant-lice, record species from Turkey (ÇELİK 1981; LODOS & ÖNUÇAR 1985; BURCKHARDT & HODKINSON 1986; BURCKHARDT & LAUTERER 1989). Finally, existing

literature and available material were analysed by BURCKHARDT & ÖNUÇAR (1993) who listed 86 species from Turkey.

The present paper reports recent findings of psylloids in the Erzurum region from where virtually nothing is known until now.

### List of species

Between 1987-1992, the senior author conducted a survey of the insect fauna of Erzurum and its surroundings which yielded 23 species of Psylloidea. Following species previously recorded from Turkey are present in the material (BURCKHARDT & ÖNUÇAR 1993): *Bactericera albiventris* (FÖRSTER), *Bactericera nigricornis* (FÖRSTER), *Cacopsylla mali* (SCHMIDBERGER), *Cacopsylla mariannae* (BAEVA), *Cacopsylla peregrina* (FÖRSTER), *Cacopsylla pyri* (LINNAEUS), *Craspedolepta ?malachitica* (DAHLBOM), *Craspedolepta ?pontica* (DOBREANU & MANOLACHE), *Crastina myricariae* LOGINOVA, *Cyamophila glycyrrhizae* (BECKER), *Cyamophila stocklosai* KLIMASZEWSKI & LODOS, *Euphyllura phillyreae* FÖRSTER, *Livia juncorum* (LATREILLE), *Livilla horvathi* (SCOTT), *Psyllopsis fraxinicola* (FÖRSTER) and *Trioza urticae* (LINNAEUS). The following seven species collected during the survey are new for Turkey. Detailed collecting data is, therefore, provided.

### Psyllidae

#### *Aphalara maculipennis* LOEW, 1886.

Erzurum: Oltu, 22.vii.1987, weeds, 1 ♂; Kombina, 30.viii.1989, *Petroselinum sativum*, 1 ♂.

Distribution. Recorded from Europe, Caucasus, Central Asia, Amur Region and India (OSSIANILSSON 1992).

#### *Craspedolepta nebulosa* (ZETTERSTEDT, 1828).

Erzurum: Kargapazari mountains, 3100 m, 27.vii.1989, weeds, 30 ♂♂, 15 ♀♀; same but 2050 m, 11.viii.1990, 1 ♀.

Distribution. Known from central, northern and eastern Europe, Kazakhstan, Northern Siberia, Sakhalin, Kamchatka, Maritime Territory, and North America (OSSIANILSSON 1992).

#### *Livia mediterranea* LOGINOVA, 1974.

Erzurum: Pasinler, 18.vii.1987, 1 ♂.

Distribution. Recorded from Caucasus, Crimea, Bulgaria, Israel and Algeria (GEGECHKORI & LOGINOVA 1990).

Comments. BURCKHARDT & ÖNUÇAR (1993) indicated that the record of *Livia crefeldensis* MINK by VONDRÁČEK (1953) from Ankara may concern *L. mediterranea*. The present record confirms this suggestion.

#### *Cyamophila astragalicola* (GEGECHKORI, 1977).

Erzurum: Centre, 26.vii.1987, 2 ♀♀; same but 4.vii.1989, 2 ♂♂; Palandöken mountains, 2200 m, 17.vii.1990, 1 ♀.

Distribution. Reported from Caucasus and Iran (GEGECHKORI & LOGINOVA 1990). *Cacopsylla hippophaes* (FÖRSTER, 1848). Erzurum: Tortum, 14.ix.1989, weeds, 4 ♂♂, 3 ♀♀; Tortum, Yukarisivri, 27.vii.1989, weeds, 6 ♂♂, 1 ♀; Tortum, Kaledibi,

15.ix.1989, weeds, 4 ♀♀; Pasinler, 18.vii.1987, *Helianthus annuus*, 1 ♂; Oltu, Ballica, 24.vii.1989, 1 ♀.

Distribution. Known from Europe, Caucasus and Central Asia (OSSIANNILSSON 1992).

Comments. The specimens at hand differ from those mentioned by BURCKHARDT & ÖNUÇAR (1993) which may represent an undescribed species.

***Cacopsylla pruni* (SCOPOLI, 1763).**

Erzurum: Senkaya, Gözalan, 30.iv.1992, 2 ♀♀; Oltu, 21.vii.1992, *Prunus domestica*, 2 ♂♂, 3 ♀♀.

Distribution. Widely distributed over Europe, Caucasus and Irkutsk (OSSIANNILSSON 1992).

**Triozidae**

***Bactericera femoralis* (FÖRSTER, 1848).**

Erzurum: Ispir, Asagiözbag, 3.viii.1989, 1 ♀.

Distribution. Known from Europe, Caucasus, Irkutsk and Amur district (OSSIANNILSSON, 1992).

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