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## A CONTRIBUTION TO THE KNOWLEDGE OF ALGERIAN JUMPING PLANT-LICE (HOMOPTERA, PSYLLOIDEA)

BY

**Pavel LAUTERER\* & Daniel BURCKHARDT\*\***

(Ms soumis le 11.2.1993, accepté le 8.7.1993)

### ABSTRACT

**A contribution to the knowledge of Algerian jumping plant-lice (Homoptera, Psylloidea).**- Twenty-one species of psyllids are recorded from a collection made during an expedition to Algeria by A. Hoffer and J. Horák in 1971. Three species, *Caillardia haloxyli* Bergevin, *Colposcения faceta* Loginova and *Crastina linnavuorii* Loginova, are new for the Algerian fauna.

### INTRODUCTION

Jumping plant-lice or psyllids constitute a small group of sternorrhynchous plant bugs with a high degree of specificity towards their, almost exclusively, dichotyledonous hosts. They are well-represented in xerothermic biotopes, such as encountered in the Mediterranean Basin. Within the Palaearctic fauna the North African psyllids have been studied only relatively superficially and this in contrast with those of the former USSR (GEGECHKORI & LOGINOVA, 1990). In particular, there are 3 papers which summarise the existing information for the following countries: Morocco (LOGINOVA, 1972), Egypt (SAMY, 1973) and Algeria (BURCKHARDT, 1989a). The last paper records 62 species for Algeria which may represent as little as a third of the number of extant species.

Among unidentified material in the collections of the National Museum of Prague were some psyllids collected by A. Hoffer and J. Horák in Algeria. Specimens were obtained by extracting swept material in photo-ecclectors, a method used for collecting micro-hymenopterans. Therefore, the psyllids are represented by winged adults only, and there is no information on host plants. This collection contains 21 species, three of which are new for Algeria, viz., *Caillardia haloxyli* Bergevin, *Colposcения faceta* Loginova and *Crastina linnavuorii* Loginova respectively.

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The present paper, which constitutes a supplement to the publication of BURCKHARDT (1989a), lists localities and dates for this collection. General information on distribution and host plants are cited from the latter source if not indicated otherwise. All material was collected by A. Hoffer and J. Horák and their names are not repeated in the following text. The material is dry mounted and preserved in the National Museum, Prague.

## LIST OF SPECIES

### **Caillardia haloxyli** Bergevin

Material: 2 ♀, Biskra, 23.v.1971; 1 ♀, same but 29-30.v.1971; 2 ♀, same but 7-8.vi.1971; 1 ♂, 1 ♀, Hamman Salahine, 34°53'N 5°40'E, 24-25.v.1971.

Previously known only from Tunisia, this species is new for Algeria.

Host plant: *Haloxylon schmittianum*.

### **Crastina linnavuorii** Loginova

Material: 1 ♂, 4 ♀, Biskra, 23.v.1971.

Described from Israel and Jordan (LOGINOVA, 1974), this species is new for Algeria.

Host plant: *Tamarix* sp.

### **Colposcencia aliena** (Löw)

Material: 1 ♀, Biskra, 29-30.v.1971; 22 ♂, 34 ♀, same but 7-8.vi.1971; 2 ♀, Hammam Salahine, 34°53'N 5°40'E, 24-25.v.1971; 3 ♂, Grande Kabylie, Djurdjura, 1000-2000 m, 15-19.vi.1971; 5 ♂, 7 ♀, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Widely distributed throughout the temperate and eremial subregions of the Palaearctic, recorded from the Canary Islands to China, and from France to the Sudan.

Host plants: *Tamarix gallica*, *T. africana* and *T. nilotica*.

### **Colposcencia faceta** Loginova

Material: 1 ♀, Grande Kabylie, Tizi-Ouzou, 15.vi.1971.

Recorded from Morocco (LOGINOVA, 1972). This species is new for the fauna of Algeria.

Host plant unknown.

**Colposcения tamaricis** (Puton)

Material: 3 ♀, Grande Kabylie, Tizi-Ouzou, 15.vi.1971; 3 ♀, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Recorded from Morocco, Algeria, Tunisia, Egypt, Spain, France and Italy.

Host plant: *Tamarix gallica* and *T. africana*.

**Livia mediterranea** Loginova

Material: 1 ♂, 1 ♀, Bouira, 12-14.vi.1971.

Recorded from the Crimea, the Caucasus, Bulgaria and Algeria.

Host plant unknown.

**Euphyllura olivina** (Costa)

Material: 1 ♀, Alger, 15-16.v.1971; 1 ♂, 4 ♀, Aïn Zaatout, 35°08'N 5°49'E, 1-4.vi.1971; 3 ♀, Grande Kabylie, Tizi-Ouzou, 15.vi.1971; 5 ♀, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Recorded as a minor pest on *Olea* from the western Mediterranean. In the eastern Mediterranean the species is replaced by *E. straminea* Loginova. Recorded from the Canary Islands, Spain, France, Italy, Morocco, Algeria, Tunisia, and as an introduction from Great Britain.

**Euphyllura phillyreae** Förster

Material: 17 ♂, 50 ♀, Bouira, 12-14.vi.1971; 1 ♀, Grande Kabylie, Djurdjura, 1000 m, 11.vi.1971.

Widely distributed throughout the Mediterranean region, the Crimea and the Caucasus.

Host plants: *Phillyrea* and *Osmanthus* spp., and locally as minor pest on *Olea*.

**Lisronia varicicosta** (Hodkinson & Hollis)

Material: 1 ♀, Bouira, 12-14.vi.1971; 1 ♀, Grande Kabylie, Djurdjura, 1000-2000 m, 15-19.vi.1971.

Widely distributed in the Mediterranean; recorded from Portugal, Spain, France, Italy, Greece and Algeria.

Host plants: *Cistus* spp. and *Tuberaria lignosa*.

**Psyllopsis fraxinicola** (Förster)

Material: 1 ♀, Bouira, 10.vi.1971.

West Palaearctic and introduced into North America.

Host plants: *Fraxinus excelsior*, *F. monophylla* and rarely *F. ornus*.

**Diaphorina chobauti** Puton

Material: 2 ♂, Biskra, 23.v.1971.

Recorded from North Africa, Italy, Cyprus, Israel, Central Asia and Mongolia.

Host plants: *Convolvulus* spp.

**Arytaina africana** Heslop-Harrison

Material: 1 ♂, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Recorded from Libya, Algeria, Spain, Southern Italy, Sicily, Sardinia and possibly Morocco (BURCKHARDT, 1989b; CONCI *et al.*, 1993).

Host plant: *Cytisus villosus*.

**Livilla adusta** (Löw)

Material: 1 ♂, 1 ♀, Biskra, 29-30.1971; 1 ♀, same but 7-8.vi.1971; 1 ♂, 1 ♀, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Recorded from Spain, Algeria and Tunisia.

Host plant unknown; some specimens were collected on *Cytisus scoparius*.

**Livilla nigripennis** Burckhardt

Material: 4 ♀, Bouira, 12-14.vi.1971.

Known from Algeria only.

Host plants: *Genista tricuspidata* and perhaps *G. ulicina*.

**Livilla retamae** (Puton)

Material: 1 ♂, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Recorded from Portugal, Spain, Sicily, North Africa and Israel (CONCI *et al.*, 1993).

Host plants: *Retama* spp.

**Arytainilla cytisi** (Puton)

Material: 9 ♂, 14 ♀, Bouira, 12-14.vi.1971; 2 ♀, Grande Kabylie, Djurdjura, 1000m, 11.vi.1971; 11 ♂, 28 ♀, same but 1000-2000 m, 15-19.vi.1971; 4 ♂, 8 ♀, Grande

Kabylie, Tizi-Ouzou, 15.vi.1971; 1 ♀, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Recorded from Spain, France (including Corsica: 5 ♀, between Bonifacio and Pertusato, 20-80 m, 15.v.1969, leg. B. & O. Tkalcu), Italy, Algeria, Yugoslavia, Greece, Turkey and Israel.

Host plants: *Calicotome* spp.

#### **Arytainilla hakani** Loginova

Material: 2 ♀, Grande Kabylie, Tizi-Ouzou, 15.vi.1971; 12 ♂, 20 ♀, Grande Kabylie, Aït Hassem, 36°35'N 4°11'E, 16-18.vi.1971.

Recorded from Morocco, Algeria and Italy.

Host plant: *Genista monspessulana*.

#### **Baeopelma foersteri** (Flor)

Material: 1 ♀, Grande Kabylie, Tizi-Ouzou, 15.vi.1971.

Widely distributed throughout the Palaearctic region.

Host plants: *Alnus glutinosa* and *A. incana*.

#### **Cacopsylla alaterni** (Förster)

Material: 1 ♀, Alger, 15-16.v.1971; 1 ♂, 1 ♀, Grande Kabylie, Djurdjura, 15-19.vi.1971.

Reported from France, Italy, Algeria, Ireland and Turkey.

Host plant: *Rhamnus alaternus*.

#### **Cacopsylla crataegi** (Schrank)

Material: 1 ♀, Grande Kabylie, Djurdjura, 1000-2000 m, 15-19.vi.1971; 1 ♀, Bouira, 12-14.vi.1971.

Recorded from most of Europe except the north, from Israel, North Africa and Iran (BURCKHARDT & LAUTERER, 1993).

Host plants: *Crataegus* spp., rarely on *Mespilus* and *Sorbus* spp.

#### **Trioza foersteri** Meyer-Dür

Material: 9 ♂, 14 ♀, Grande Kabylie, Djurdjura, 1000-2000 m, 15-19.vi.1971.

This thermophilous species is recorded from Switzerland, Austria, Czechoslovakia, Poland, Rumania, Greece, Turkey, Spain, Morocco and Algeria.

Host plants: *Mycelis muralis* and *Prenanthes purpurea*.

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## RÉSUMÉ

La collection de Hoffer et Horák comprend 21 espèces de Psylles, dont 3 sont nouvelles pour la faune d'Algérie.

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