

## PSOCOPTERA RECORDS FROM NORTH MAINLAND OF GREECE: A CASE STUDY

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### Abstract

The study was carried out between 15.5.2018 and 8.8.2019 in various regions of N continental Greece. A total of 16 species were collected from 11 localities. The Psocoptera fauna of N Greece is still not well studied and future investigations are needed.

**Keywords:** barkfly, North Greece, mediterranean, fauna, diversity.

### Introduction

The barklice (Insecta: Psocoptera) of Greece were mostly studied in its southern and central regions, both mainland and the islands (Lienhard 1998, Lienhard & Smithers 2002, Lienhard 2006, Hollier et al. 2011, Sziráki 2013). The Psocoptera fauna of large parts of northern mainland remains largely unknown.

### Material and Methods

The study was carried out between 15.5.2018 and 8.8.2019 (Tab. 1, Fig. 1). The barkflies were collected by the following methods: sieving (sieve with 1 mm wide mesh) of detritus or crushed tree bark particles above white plastic container, beating the vegetation above white plastic container and sweep netting of vegetation. Specimens were then stored in ethanol and after processing, deposited in the collection of the author. All material was collected by the author except from the specimens from Athos, collected by Ognyan Todorov. After identification they were preserved in 96% ethanol. Species identification is based on Lienhard (1998). As a supporting source, Saville (2008) was also used.

## Psocoptera of North Greece



**Fig. 1.** Map of the localities surveyed (locality numbers correspond with Table 1)

**Table 1.** Localities of North Greece where samples were taken (altitude in m a.s.l.)

No	Date	Locality	Coordinates	Alt.
1	15.5.2018	Chalkidiki, Athos, near road, maquis	N40°18'11.7" E24°11'43.8"	189
2	25.7.2018	Near Egnatia Odos highway, resting site, NW of Kozani town	N40°19'11.5" E21°45'05.2"	678
3	26.7.2018	Igumenitsa town, bush area	N39°29'40.3" E20°16'44.8"	46
4	2.8.2018	Chalkidiki, south of Stavros, mixed broad leaf forest	N40°39'36.2" E23°42'25.4"	19
5	3.8.2018	Chalkidiki, Stavros, at the beach, grass with a groups of palms <i>Washingtonia sp.</i>	N40°39'48.2" E23°42'32.4"	2
6	3.8.2018	Near the lagoon of Porto Lagos, high grass with single bushes	N41°00'23.8" E25°05'45.2"	2
7	27.8.2018	Near Paralia town, near canal, with <i>Arundo donax</i> and single trees	N40°15'40.1" E22°35'34.2"	8
8	27.8.2018	Near Paralia town, grass with <i>Tamarix sp.</i> bushes	N40°15'45.0" E22°35'32.8"	8
9	23.9.2018	Near Fanari town, <i>Pinus halepensis</i> forest	N40 57'27.0" E25°08'19.1"	0
10	24.9.2018	Alexandropolis town, <i>Pinus halepensis</i> forest	N40°50'47.7" E25°53'24.8"	6
11	8.8.2018	Chalkidiki, Sithonia, near Porto Koufo, bush of <i>Olea europaea</i> near stream	N39°58'1.2" E23°55'56.4"	20

### Results

The survey revealed a total of 16 species of Psocoptera on the North mainland of Greece:

#### Trogiidae

##### *Trogium pulsatorium* (Linnaeus, 1758)

Material examined: locality nr. 6, 1♀, from branches of *Ulmus* sp. bush, collected by beating the vegetation.

##### *Cerobasis guestfalica* (Kolbe, 1880)

Material examined: locality nr. 5, 1♀, from dry leaves of *Washingtonia* sp., collected by beating the vegetation; locality nr. 8, 2♀, from *Tamarix* sp., collected by sweep netting; locality nr. 9, 1♀, from *Phragmites australis*, collected by beating the vegetation; locality nr. 10, 1♀, from branches of *Pinus halepensis* and *Cupressus* sp., collected by beating the vegetation.

##### *Lepinotus reticulatus* Enderlein, 1905

Material examined: locality nr. 9, 4♀, from detritus and dry grass particles, collected by sieving.

#### Liposcelididae

##### *Liposcelis decolor* (Pearman, 1925)

Material examined: locality nr. 3, 1♀, from detritus of *Amygdalus sativa* leaves, collected by sieving; locality nr. 9, 1♀, from detritus and dry grass particles, collected by sieving.

##### *Liposcelis priesneri* Enderlein, 1925

Material examined: locality nr. 9, 1♀, from detritus and dry grass particles, collected by sieving.

##### *Liposcelis bostrychophila* Badonnel, 1931

Material examined: locality nr. 7, 1♀, from detritus of *Ulmus* sp., collected by sieving.

#### Caeciliusidae

##### *Caecilius fuscopterus* (Latreille, 1799)

Material examined: locality nr. 4, 1♂, from mixture of broad leaf bushes, collected by beating the vegetation.

#### Lachesillidae

##### *Lachesilla bernardi* Badonnel, 1938

Material examined: locality nr. 4, 1♀, from mixture of broad leaf bushes, collected by beating the vegetation.

##### *Lachesilla dimorpha* Lienhard, 1981

Material examined: locality nr. 1, 1♀, collected by sweep netting (O. Todorov leg.).

#### Ectopsocidae

##### *Ectopsocus briggsi* McLachlan, 1899

Material examined: locality nr. 2, 1♀, 1♂, from branches of *Ulmus* sp., collected by beating the vegetation; locality nr. 4, 2♀, 1♂, from branches of *Crataegus* sp., collected by beating the vegetation; locality nr. 5, 4♀, from dry leaves of *Washingtonia* sp., collected by beating the vegetation.

## Psocoptera of North Greece

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### *Ectopsocus petersi* Smithers, 1978

Material examined: locality nr. 1, 1♀, collected by sweep netting (O. Todorov leg.).

### *Ectopsocopsis cryptomeriae* (Enderlein, 1907)

Material examined: locality nr. 4, 2♀, from mixture of broad leaf bushes, collected by beating the vegetation; locality nr. 5, 1♀, from dry leaves of *Washingtonia* sp., collected by beating the vegetation.

### *Ectopsocopsis xerophylla* Vishnyakova, 1970

Material examined: locality nr. 4, 1♀, 2♂, from branches of *Crataegus* sp., collected by beating the vegetation.

## Elipsocidae

### *Cuneopalpus cyanops* (Rostock, 1876)

Material examined: locality nr. 9, 1♀, from branches of *Pinus halepensis*, collected by beating the vegetation.

## Stenopsocidae

### *Graphopsocus cruciatus* (Linnaeus, 1768)

Material examined: locality nr. 2, 1♀, from branches of *Ulmus* sp., collected by beating the vegetation; locality nr. 4, 1♀, from branches of *Crataegus* sp., collected by beating the vegetation.

## Trichopsocidae

### *Trichopsocus dalii* (McLachlan, 1867)

Material examined: locality nr. 3, 2♀, from branches of *Pistacia* sp., collected by beating the vegetation; locality nr. 4, 1♀, from mixture of broad leaf bushes, collected by beating the vegetation; locality nr. 11, 1♀, from branches of *Olea europaea*, collected by beating the vegetation.

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