

# New records of Psocoptera species from Bulgaria

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**Abstract:** Four Psocoptera species are reported as new records for Bulgaria: *Valenzuela corsicus* (Kolbe, 1882) (Ihtimanska Sredna Gora Mts), *Reuterella helvimacula* (Enderlein, 1901) (Rila Mts), *Mesopsocus helveticus* Lienhard, 1977 and *Hyalopsocus contrarius* (Reuter, 1893) (both from Sakar Mts). After this article there are a total of 71 psocid species known from the country.

**Keywords:** Balkan Peninsula, Insecta, new records, Psocoptera

## Introduction

Till now a total of 67 species of Psocoptera have been known to inhabit the territory of Bulgaria (Georgiev, 2021). Here I add four more species collected from various regions to the country check list.

## Material and methods

The study was carried out during the period 2020–2021. All the material was collected by beating the vegetation by a small wooden stick above white plastic container – an empty yogurt box with a size of 16.5×16.5×6 cm. Specimens were then stored in ethanol and after processing, deposited in the collection of the author. Species identifications and taxonomy are based on Lienhard (1998).

## Results

From all the collected materials, four species represent new records for Bulgaria, as follows:

### Caeciliusidae

*Valenzuela corsicus* (Kolbe, 1882). Material examined: 02.12.2021, Ihtimanska Sredna Gora Mts, W of Akandzhievo Village, a meadow with single bushes, near *Pinus nigra* forest, N42 15 17.3 E24 02 21.5, 336 m a.s.l., 1 ♀, from *Juniperus* sp. (Fig. 1, C).

### Elipsocidae

*Reuterella helvimacula* (Enderlein, 1901). Material examined: 26.09.2020, Rila Mts, above Chakar Voyvoda Hut, *Pinus peuce* and *P. mugo* forest near the alpine grassland zone, N42 13 36.0 E23 37 54.5, 2013 m a.s.l., 1 ♀, from pine tree branches overgrown by lichens (Fig. 1, D).

### Mesopsocidae

*Mesopsocus helveticus* Lienhard, 1977. Material examined: 14.11.2021, Sakar Mts, E of Shtit Village, bushes near farmland, N41 49 37.7 E26 22 10.0, 220 m a.s.l., 1 ♀, from dry leaves of *Sambucus ebulus*; 14.11.2021, Sakar Mts, N of Mladinovo Village,

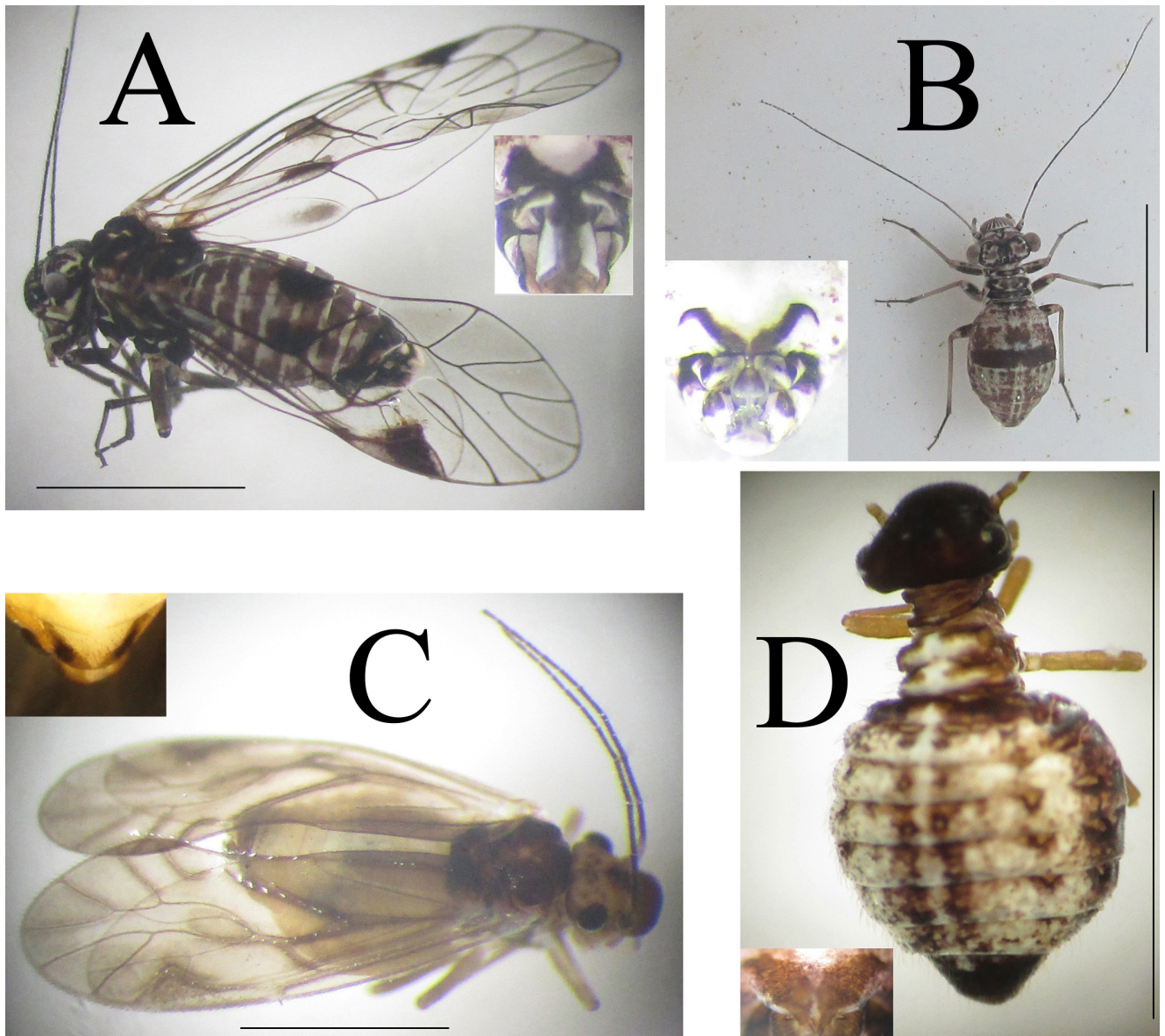


Fig. 1. External views and subgenital plates of the newly recorded Psocoptera species: A – *Hyalopsocus contrarius* (in glycerin), B – *Mesopsocus helveticus* (living specimen from the area of Mladinovo Village, subgenital plate of a specimen from the area of Shtit Village), C – *Valenzuela corsicus* (in glycerin), *Reuterella helvimacula* (in glycerin). Scale bar approximately 2 mm, related to the whole body of the specimens.

bushes near a road, N41 57 07.5 E26 13 53.6, 360 m a.s.l., 1 ♀, from branches of bushes overgrown by lichens (Fig. 1, B).

#### Psocidae


*Hyalopsocus contrarius* (Reuter, 1893). Material examined: 14.11.2021, Sakar Mts, N of Mladinovo Village, bushes near a road, N41 57 07.5 E26 13 53.6,

360 m a.s.l., 1 ♀, from branches of bushes overgrown by lichens (Fig. 1, A).

#### Acknowledgements

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**References**

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