

## New records of Psocoptera (Insecta) from Thailand

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**Abstract.** The study was carried out between 24-27.02.2023, East and South-East of Karon village on Phuket Island, Thailand. At least 13 species from seven families of Psocoptera were collected. Eleven species were new records for Thailand.

**Key words:** biodiversity, South-East Asia, insects.

### Introduction

Compared to neighbouring China, Malaysia and Indonesia, the Psocoptera fauna of Thailand is very poorly known. Only 27 psocid species were known from this country (Lienhard 2016). In this short note I report of some new species and localities records to this area.

### Material and Methods

The study was carried out between 24-27.02.2023, East and South-East of Karon village on Phuket Island, Thailand. Beating the vegetation and sieving techniques were mainly used for collection, and the specimens were stored in 96% ethanol.

### Results and Discussion

At least 13 species from seven families of Psocoptera were collected. One of them (*Liposcelis bostrychophila* Badonnel, 1931) was known already from Thailand, and the unidentified *Liposcelis* sp. was similar with *L. entomophila* (Enderlein, 1907) which was also reported from this country. All the rest of the psocid species (11) were new records.

Species list:

### **Lepidopsocidae Enderlein, 1903**

#### ***Echmepteryx madagascariensis* (Kolbe, 1885)**

Material examined: 24.02.2023, E of Karon vill., along the road to Yuan Phueng monastery, rain forest, from dry banana (*Musa* sp.) leaves, N07 50 48.9 E98 18 29.2, 109 m a. s. l., 1♀; 25.02.2023, near the path from Big Buddha Temple to Karon vill., rain forest, from dry banana (*Musa* sp.) leaves, N07 49 54.9 E98 18 33.2, 252 m a. s. l., 1♀. Remark: The species was known from many of the warmer parts of the World (Lienhard 2016).

#### ***Echmepteryx pallida* Smithers, 1965**

Material examined: 24.02.2023, E of Karon vill., along the road to Yuan Phueng monastery, rain forest, from dry banana (*Musa* sp.) leaves, N07 50 48.9 E98 18 29.2, 109 m a. s. l., 1♀; 25.02.2023, near the path from Big Buddha Temple to Karon vill., rain forest, from dry banana (*Musa* sp.) leaves, N07 49 54.9 E98 18 33.2, 252 m a. s. l., 3♀; 26.02.2023, E of Karon vill., rain forest, from dry leaves on a bush near a pond, N07 51 26.7 E98 17

49.0, 32 m a. s. l., 1♀; 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀. Remark: The species was known from Australia, Christmas Island, Equatorial Guinea, Indonesia, Polynesia, Zanzibar and Kenya (Lienhard 2016, Georgiev 2022).

***Lepidopsocus fasciatus* Thornton, 1981**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀. Remark: The species was known from Fiji, Hawaii, Tonga and French Polynesia (Thornton, 1981, 1989).

**Liposcelididae Enderlein, 1911**

***Liposcelis bostrychophila* Badonnel, 1931**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 2♀. Remark: Cosmopolitan species, known and from Thailand (Lienhard 2016).

***Liposcelis* sp.**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀. Remark: Body brown, morphology similar with this of *L. entomophila* (Enderlein, 1907) which was reported for Thailand (Lienhard 2016).

**Psoquillidae Lienhard & Smithers, 2002**

***Rhyopsocus pandanicola* Thornton, Lee & Chui, 1972**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀. Remark: Known from Micronesia, Christmas Island, Tonga and Kenya (Lienhard 2016, Georgiev 2022, 2023a).

**Pachytroctidae Enderlein, 1904**

***Tapinella* sp.**

Material examined: 26.02.2023, E of Karon vill., rain forest, from dry leaves on a bush near a pond, N07 51 26.7 E98 17 49.0, 32 m a. s. l., 1♀; 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀.

**Epipsocidae Pearman, 1936**

***Epipsocopsis costalis* (Banks, 1914)**

Material examined: 25.02.2023, near the path from Big Buddha Temple to Karon vill., rain forest, from dry banana (*Musa* sp.) leaves, N07 49 54.9 E98 18 33.2, 252 m a. s. l., 2♀. Remark: The two female specimens have very slight differences from the original drawings of Banks in wing venation and coloration (Banks 1914). The species was known from India, Indonesia and Malaysia (Lienhard 2016).

**Ectopsocidae Roesler, 1944**

***Ectopsocus meridionalis* Ribaga, 1904**

Material examined: 24.02.2023, E of Karon vill., along the road to Yuan Phueng monastery, rain forest, from dry banana (*Musa* sp.) leaves, N07 50 48.9 E98 18 29.2, 109 m a. s. l., 1♀. Remark: A species with very wide range of distribution (Lienhard 2016).

***Ectopsocus pilosus* Badonnel, 1967**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀. Remark: Known from Madagascar, Mascarene Islands, Bangladesh, Cambodia, India, Malaysia, Kenya and Uganda (Lienhard 2016, Georgiev 2022, 2023b).

***Ectopsocus* sp.**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 2♀. Remark: Small, pale yellowish-brown species (smaller than *E. pilosus*). Wings hyaline.

**Archipsocidae Pearman, 1936*****Archipsocopsis fernandi* (Pearman, 1934)**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀. Remark: The species was known from Australia, Bangladesh, Indonesia, Sri Lanka, Madagascar and Kenya (Lienhard 2016, Georgiev 2022).

***Archipsocus* cf. *ghesquierei* Badonnel, 1946**

Material examined: 27.02.2023, E of Karon vill., rain forest, from bushes, N07 50 51.1 E98 18 10.4, 80 m a. s. l., 1♀. Remark: The species *ghesquierei* was known from Africa: Congo, Angola, Benin, Ivory Coast, Togo and Kenya (Lienhard 2016, Georgiev 2022).

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