



**NOTE ON PSELAPHINAE (COLEOPTERA: STAPHYLINIDAE)  
FAUNA OF TURKEY (EUROPEAN PART)**

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**Abstract** - New data on Pselaphinae species in European part of Turkey are presented. One genus (*Fagniezia* Jeannel, 1950) and 6 species (*Bibloplectus ambiguus*, *Bryaxis roumaniae*, *Bythinus leonhardinus*, *Bythinus acutangulus lunifer*, *Brachygluta trigonoprocta*, *Fagniezia impressa*) are new to the fauna of Turkey.

**KEY WORDS:** Yıldız (Strandzha) Mts, Black Sea coast, faunistics, Pselaphinae

**Izveček** – ZAPISKI O FAVNI PODDRUŽINE PSELAPHINAE (COLEOPTERA: STAPHYLINIDAE) V TURČIJI (EVROPSKI DEL)

Predstavljeni so podatki o vrstah podružine Pselaphinae v evropskem delu Turčije. En rod (*Fagniezia* Jeannel, 1950) in 6 vrst (*Bibloplectus ambiguus*, *Bryaxis roumaniae*, *Bythinus leonhardinus*, *Bythinus acutangulus lunifer*, *Brachygluta trigonoprocta*, *Fagniezia impressa*) je novih v favni Turčije.

**KLJUČNE BESEDE:** Gorovje Yıldız (Strandzha), Črnomska obala, favnistika, Pselaphinae

### Introduction

In the recent catalogue and check-list of Staphylinidae (Löbl and Besuchet, 2004; Anlaş, 2009) only 24 species of the subfamily Pselaphinae are listed for the European part of Turkey.

The Strandzha mountain region (including Black sea coast) is situated in the border area between Bulgaria and Turkey and has some specific characteristics (fairly low altitude combined with varied mountainous relief). The geographic and climatic specifics of the Strandzha mountain has determined special characteristics of the vegetation which is a conglomerate of European, Black Sea, Caucasian species, dif-

fering in origin, biological peculiarities and levels of development. They are divided into four large groups of vegetation families: Pre-coastal forests, marshlands and dunes; East beech-tree and durmast formation with evergreen bushes, East beech-tree formations in the high mountain area (500 - 700m) and Xerothermic beech-tree formations with or without remainders of Mediterranean vegetation.

All this contribute to considerable species diversity and existence of rare species, as well as ones that are not widespread in the rest of the two countries.

The current paper presents the results of two field expeditions in Yıldız (Strandzha) Mts. and Black Sea coast during the summer and autumn of 2009.

### Materials and methods

The material was collected using the following methods:

Sifting – with litter reducer. The leaf litter and rotten wood was sifted and examined in place or soil samples (2,5-3 kg) was taken for Winkler/Moczarski extractors; night hunt with light – a lamp 160W MBTF and black light tube (F8T5 – 365 nm) was used;

sweeping - with entomological net and with handy one-hand blower Partner GBV 325.

One part of the specimens are mounted using standard procedures, second part is preserved in alcohol. All materials are preserved in the author collection.

In order to avoid repetition of GPS coordinates and altitude data, they are given only in the first mentioning of the record.

### List of species

#### ***Euplectus kirbii* Denny, 1825**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, N 41° 51.457 E 27° 57.536, 5 m, under bark of old tree, 02.10.2009, 2 ♂♂, 2 ♀♀, leg. R. Bekchiev.

#### ***Biblopectus ambiguus* Reichenbach, 1816**

Kırklareli Province, Demirköy District, Ruins of Demirköy smeltery, N 41° 49 03.5 E 27° 48 50.0, 171 m, in leaf litter of *Fagus orientalis* Lipsky and *Rhododendron ponticum* L., 03.10.2009, 2 ♂♂, 3 ♀♀, leg. R. Bekchiev.

#### ***Biblopectus pussilus* (Denny, 1825)**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, Hamam Lake, N 41° 49.720 E 27° 57.518, 5 m, in leaf litter of *Salix* sp., 02.10.2009, 7 ♂♂, 4 ♀♀, leg. R. Bekchiev.

#### ***Biblopectus spinosus* Raffray, 1914**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, Hamam Lake, in leaf litter of *Salix* sp., 02.10.2009, 2 ♂♂, 3 ♀♀, leg. R. Bekchiev.

***Biblopectus hungaricus* Besuchet, 1955**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, Hamam Lake, under bark of old tree, 02.10.2009, 1 ♂, 1 ♀, leg. R. Bekchiev.

***Trimium caucassicum* Kolenati, 1846**

Kırklareli Province, 5 km of Vize Town, N 41° 35.810 E 27° 49.518, 376 m, in leaf litter of *Quercus* sp., 07.07.2009, 1 ♂, 5 ♀♀, leg. R. Bekchiev.

***Delenda carthago* Croissandeau, 1891**

Kırklareli Province, Demirköy District, Mahya Hill, N 41° 47 57.3 E 27° 44 03.1, 617 m, in leaf litter of *F. orientalis* and *Rh. ponticum*, 06.07.2009, 10 ♂♂, 5 ♀♀; Sislioba Village, N 41° 57 44.2 E 27° 54 36.1, 49 m, in leaf litter near little stream, 03.10.2009, 1 ♂, 1 ♀; Ruins of Demirköy smeltery in leaf litter of *Populus* sp, 30.09.2009, 1 ♂; in in leaf litter of *F. orientalis* and *Rh. ponticum*, 03.10.2009, 2 ♂♂, 2 ♀♀; Mahya Hill, N 41° 47 57.3 E 27° 44 03.1, 617 m, in leaf litter *F. orientalis* and *Rh. ponticum*, 29.09.2009, 6 ♂♂, 20 ♀♀; İğneada Town, National Park of Longoz Forests, Hamam Lake, N 41° 49.720 E 27° 57.518, 5 m, in leaf litter of *Quercus* sp., 02.10.2009, 1 ♂, 1 ♀, leg. R. Bekchiev.

***Bryaxis bulbifer* Reichenbach, 1816**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, a fountain with an inscription on the Longoz road, N 41° 51 51.0 E 27° 56 54.1, 15 m, in leaf litter of *Fraxinus* sp., 05.07.2009, 1 ♂; 02.10.2009, 1 ♂, 3 ♀♀, leg. R. Bekchiev.

***Bryaxis curtisii orientalis* Karaman, 1952**

Kırklareli Province, Demirköy District., bank of Değirmendere, N 41° 49.287 E 27° 45.129, 289 m, in leaf litter of *Alnus* sp., 06.07.2009, 4 ♂♂, 5 ♀♀; İğneada Town, National Park of Longoz Forests, A fountain with an inscription on the Longoz road, 02.10.2009, 1 ♂, 4 ♀♀, leg. R. Bekchiev.

***Bryaxis roumaniae* Raffray, 1914**

Kırklareli Province, Demirköy District, Sarpdere Village, above entrance of Dupnisa Cave, N 41° 50.028 E 27° 33.410, 436 m, in leaf litter of *Quercus* sp., 08.07.2009, 6 ♂♂, 3 ♀♀; 29.09.2009, 2 ♂♂; İğneada Town, National Park of Longoz Forests, a fountain with an inscription on the Longoz road, 02.10.2009, 1 ♂, 1 ♀; Ruins of Demirköy smeltery, 30.09.2009, 1 ♂; 03.10.2009, 1 ♂; Mahya Hill, 29.09.2009, 1 ♂; İğneada Town, National Park of Longoz Forests, Hamam Lake, 02.10.2009, 1 ♂, 1 ♀, leg. R. Bekchiev.

***Bythinus balkanicus* Reitter, 1885**

Kırklareli Province, Demirköy District, bank of Değirmendere, 06.07.2009, 1 ♂; Mahya Hill, 06.07.2009, 2 ♂♂; 29.09.2009, 1 ♂, 1 ♀; Sislioba Village, 08.07.2009,

1 ♂; 03.10.2009, 1 ♂, 1 ♀; Ruins of Demirköy smeltery, 30.09.2009, 10 ♂♂, 15 ♀♀; 03.10.2009, 5 ♂♂, 7 ♀♀, leg. R. Bekchiev.

***Bythinus leonhardinus* Reitter, 1913**

Kırklareli Province, Demirköy District., bank of Değirmendere, 06.07.2009, 7 ♂♂, 7 ♀♀; Mahya Hill Summit, N 41° 46 15.6 E 27° 38 18.0, 820 m, in leaf litter of *F. orientalis*, 30.09.2009, 6 ♂♂, 12 ♀♀; Sarpdere Village, Dupnisa Cave, N 41° 50 25.7 E 27° 33 21.9, 345 m, in leaf litter of *Salix* sp., 01.10.2009, 1 ♂, leg. R. Bekchiev.

***Bythinus acutangulus lunifer* Karaman, 1948**

Kırklareli Province, Demirköy District, Sarpdere Village, above entrance of Dupnisa Cave, N 41° 50.028 E 27° 33.410, 436 m, in leaf litter of *Carpinus* sp., 08.07.2009, 1 ♂, leg. R. Bekchiev.

***Tychus anatolicus* Besuchet, 1964**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, Mert Lake, N 41° 51.457 E 27° 57.536, 5 m, at light and by sweeping, 05.07.2009, 2 ♂♂, 34 ♀♀; İğneada Town, National Park of Longoz Forests, Hamam Lake, 02.10.2009, 1 ♂, 3 ♀♀, leg. R. Bekchiev.

***Brachygluta trigonoprocta*, Ganglbauer, 1895**

Kırklareli Province, Demirköy District, Sarpdere Village, above entrance of Dupnisa Cave, at light, 08.07.2009, 30 ♂♂, leg. R. Bekchiev, B. Zaltkov.

***Brachygluta foveola* Motschulsky, 1840**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, at light and by sweeping, 05.07.2009, 14 ♂♂, 2 ♀♀; by handy one-hand blower Partner GBV 325, 01.10.2009, 105 ♂♂, leg. I. Gjonov, K. Kunt, R. Bekchiev.

***Brachygluta helferi longispina* (Reitter, 1884)**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, by handy one-hand blower Partner GBV 325, 01.10.2009, 36 ♂♂, leg. I. Gjonov, K. Kunt, R. Bekchiev.

***Fagniezia impressa* Panzer, 1805**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, at light and by sweeping, 05-07.2009, 12 ♂♂; by handy one-hand blower Partner GBV 325, 01.10.2009, 50 ♂♂, leg. I. Gjonov, K. Kunt, R. Bekchiev.

***Trissemus atennatus serricornis* Schmidt-Göbel, 1838**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, at light and by sweeping, 06.07.2009, 5 ♂♂, 59 ♀♀; handy one-hand blow-

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er Partner GBV 325, 01.10.2009, 3 ♂♂, leg. I. Gjonov, K. Kunt, R. Bekchiev; Sislioba Village, 03.10.2009, 1 ♂, 1 ♀, leg. R. Bekchiev.

### ***Rybaxis longicornis* Leach, 1817**

Kırklareli Province, Demirköy District, İğneada Town, National Park of Longoz Forests, at light and by sweeping, 06.07.2009, 14 ♂♂, 14 ♀♀; by handy one-hand blower Partner GBV 325, 01.10.2009, 2 ♂♂, 4 ♀♀, leg. I. Gjonov, K. Kunt, R. Bekchiev; İğneada Town, National Park of Longoz Forests, Hamam Lake, in leaf litter, 02.10.2009, 1 ♂, leg. R. Bekchiev.

### ***Ctenistes palpalis* Reichenbach, 1816**

Kırklareli Province, Demirköy District, Sarpdere Village, above entrance of Dupnisa Cave, at light, 08.07.2009, 1 ♀, leg. R. Bekchiev, B. Zlatkov.

### ***Tyrus mucronatus* Panzer, 1805**

Kırklareli Province, Demirköy District, Sarpdere Village, in bank of Velika River, N 41° 51.23 E 27° 34.04, 316 m, under bark of old tree, 01.10.2009, 1 ♂, leg. R. Bekchiev.

### ***Pselaphus caucasicus* Motschulsky, 1845**

Kırklareli Province, Demirköy District, Sarpdere Village, above entrance of Dupnisa Cave, N 41° 50 25.7 E 27° 33 21.9, 345 m, by handy one-hand blower Partner GBV 325, 01.10.2009, 1 ♂, leg. R. Bekchiev, K. Kunt.

## **Conclusions**

As a result of this report 23 Pselaphinae species are established for the investigated region. One genus (*Fagniezia* Jeannel, 1950) and 6 species (*Biblopectus ambiguus*, *Bryaxis roumaniae*, *Bythinus leonhardinus*, *Bythinus acutangulus lunifer*, *Brachygluta trigonoprocta* and *Fagniezia impressa*) are new to the fauna of Turkey.

New localities are mentioned for *Delenda carthago* and *Bythinus balkanicus*, which were known only from the vicinity of Belgrad Ormanlari (Karaman, 1957, 1969; Anlaş, 2009) till now.

As a result, including the species mentioned in Anlaş (2009), the total number of the Pselaphinae species in European part of Turkey is 38. Having in mind the geographical position of the area (between Europe and Asia) and variety of natural habitats within this territory the richness of the studied fauna must be greater.

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