

DATA ON BUTTERFLIES AND MOTHS FROM THE REGION  
OF SLAVEYNO, WESTERN RHODOPE RHODOPE MOUNTAINS  
(INSECTA, LEPIDOPTERA)

DIMITAR KAYNAROV, IVAN ANDREEV\*, STELA DIPCHIKOVA

*Department of Zoology and Anthropology, Faculty of Biology, Sofia University, 8 Dragan Tzankov Blvd 1164, Sofia, Bulgaria*

*\* Corresponding author: andreevivan112@gmail.com*

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**Abstract:** New faunistical records on butterflies and moths from the region of Slaveyno Village, Western Rhodope Rhodope Mountains, Bulgaria are given. The material was collected by students during a field practice organized by The Faculty of Biology, Sofia University. As a result sixty-three species of butterflies and moths from twelve families from the region of Slaveyno Village were identified. The Balkan endemic subspecies – *Adscita statices drenowskii* (Alberti, 1939) and the protected species – *Parnassius apollo* (Linnaeus, 1758) were also found.

## INTRODUCTION

The village of Slaveyno is located in Central Rhodope Mountain at an altitude of 1150 m, along Malka Arda River. The climate is mostly mountainous, influenced by Mediterranean air masses penetrating through the river valleys. The dominant plant associations consist of *Pinus sylvestris* (Linnaeus, 1753), *Pinus nigra* (J.F. Arnold, 1785), *Fagus sylvatica* (Linnaeus, 1753) and *Quercus* spp.

The data available for 937 Macrolepidoptera species from the Western Rhodope Mountain were summarized by Beshkov and Langourov (2011). Additionally, Abadjiev (2000) reported 160 butterflies from the region. The current study is based on material and photographs collected by students from

Sofia University during a field practice held at 17–25 July 2016 and preserved in the Zoological collection of the University (BFUS). Diverse entomological material was collected, including the object of the present study – moths and butterflies (Lepidoptera).

## MATERIALS AND METHODS

The material was collected with an aerial net (main method) and at artificial lights (additional method). Some specimens were identified after genitalia dissection, e.g. most members of family Zygaenidae (**Fig. 1.**), *Leptidea sinapis* (Linnaeus 1758), *Amphipyra pyramidea* (Linnaeus 1758), *Hipparchia fagi* (Scopoli 1763). Genitalia were studied after maceration in warm 10% potassium hydroxide solution and are preserved in glycerol.

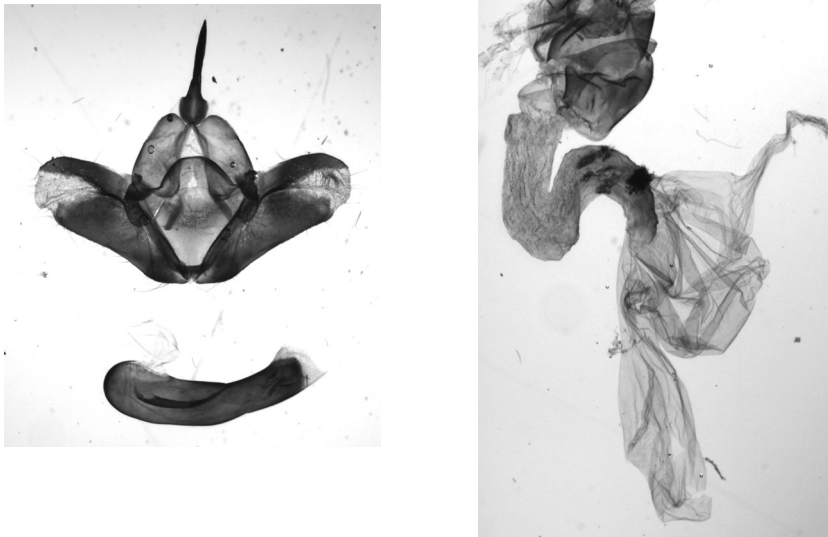


Fig. 1. *Adscita statices drenowskii* (Alberti 1939) – genitalia: left - male, right - female

## RESULTS AND DISCUSSION

Sixty-three species from twelve families of butterflies and moths from the region of Slaveyno Village were identified. The list also includes the Balkan endemic subspecies – *Adscita statices drenowskii* (Alberti, 1939) and also a protected species – *Parnassius apollo* (Linnaeus, 1758). The latter is included in Appendix IV of the Directive 92/43, “vulnerable” in the IUCN list, Red Data Book of European Butterflies, Red Book of Bulgaria, Corine Biotopes, European Red List of Butterflies, Prime Butterfly Areas in Bulgaria, Bulgarian Biodiversity Law, CITES.

### **Family Zygaenidae**

*Zygaena ephyaltes* (Linnaeus, 1767)  
*Zygaena angelicae* Ochsenheimer, 1808  
*Zygaena trifolii* (Esper, 1783)  
*Zygaena loti* ([Denis & Schiffermüller], 1775)  
*Zygaena filipendulae* (Linnaeus, 1758)  
*Adscita statices drenowskii* (Alberti, 1939)

### **Family Papilionidae**

*Parnassius apollo* (Linnaeus, 1758)  
*Iphiclides podalirius* (Linnaeus, 1758)

### **Family HesperIIDae**

*Ochlodes sylvanus* (Esper, 1777)  
*Thymelicus sylvestris* (Poda, 1761)

### **Family Pieridae**

*Colias croceus* (Fourcroy, 1785)  
*Pieris brassicae* (Linnaeus, 1758)  
*Pieris rapae* (Linnaeus, 1758)  
*Pieris napi* (Linnaeus, 1758)  
*Leptidea sinapis* (Linnaeus, 1758)

### **Family Lycaenidae**

*Lycaena virgaureae* (Linnaeus, 1758)  
*Lycaena candens* (Herrich-Schäffer, 1844)  
*Plebeius daphnis* ([Denis & Schiffermüller], 1775)  
*Plebeius agestis* ([Denis & Schiffermüller], 1775)  
*Plebeius anteros* (Freyer, 1844)  
*Polyommatus icarus* (Rottemburg, 1775)  
*Polyommatus bellargus* (Rottemburg, 1775)  
*Cupido argiades* (Pallas, 1771)  
*Maculinea arion* (Linnaeus, 1758)

**Family Nymphalidae**

*Maniola jurtina* (Linnaeus, 1758)  
*Coenonympha arcania* (Linnaeus, 1761)  
*Melanargia galathea* (Linnaeus, 1758)  
*Polygonia c-album* (Linnaeus, 1758)  
*Vanessa cardui* (Linnaeus, 1758)  
*Melitaea didyma* (Esper, 1778)  
*Melitaea athalia* (Rottemburg, 1775)  
*Argynis aglaja* (Linnaeus, 1758)  
*Argynis adippe* ([Denis & Schiffermüller], 1775)  
*Aphantopus hyperantus* (Linnaeus, 1758)  
*Hipparchia fagi* (Scopoli, 1763)  
*Erebia aethiops* (Esper, 1777)

**Family Crambidae**

*Anania hortulata* (Linnaeus, 1758)  
*Palpita vitrealis* (Rossi, 1794)

**Family Sphingidae**

*Mimas tiliae* (Linnaeus, 1758)  
*Laothoe populi* (Linnaeus, 1758)  
*Macroglossum sellatarum* (Linnaeus, 1758)  
*Hyles livornica* (Esper, 1780)

**Family Geometridae**

*Ematurga atomaria* (Linnaeus, 1758)  
*Chiasmia clathrata* (Linnaeus, 1758)  
*Idaea aversata* (Linnaeus, 1758)  
*Rhodostrophia vibicaria* (Clerck, 1759)  
*Ourapteryx sambucaria* (Linnaeus, 1758)  
*Biston betularia* (Linnaeus, 1758)  
*Scotopteryx chenopodiata* (Linnaeus, 1758)

**Family Notodontidae**

*Drymonia obliterata* (Esper, 1785)  
*Drymonia querna* ([Denis & Schiffermüller], 1775)  
*Phalera bucephala* (Linnaeus, 1758)

**Family Erebidae**

*Eilema lurideola* (Zincken, 1817)  
*Callimorpha dominula* (Linnaeus, 1758)  
*Dicallomera fascelina* (Linnaeus, 1758)

## Family Noctuidae

*Autographa gamma* (Linnaeus, 1758)

*Mythimna unipuncta* (Howorth, 1809)

*Mythimna conigera* ([Denis & Schiffermüller], 1775)

*Amphipyra pyramidea* (Linnaeus, 1758)

*Cucullia umbratica* (Linnaeus, 1758)

*Sideridis rivularis* (Fabricius, 1775)

*Apamea monoglypha* (Hufnagel, 1766)

*Hoplodrina octogenaria* (Goeze, 1781)

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