

# Studies on Heterocera from Bulgaria (Lepidoptera)

by

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**Samenvatting.** Studies over Heterocera uit Bulgarije (Lepidoptera). In dit artikel worden zeven nieuwe Heterocera-soorten voor de Bulgaarse fauna vermeld : *Eupithecia irriguata* Hübner, *Ecliptopera capitata* Herrich-Schäffer, *Mythimna impura* Hübner, *Cryphia amasina* Draudt, *Cryphia seladona* Christoph, *Spodoptera cilium* Guenée en *Melipotis arcuinna* Hübner. Verder bleek uit nauwkeurig onderzoek dat enkele andere soorten, die vroeger uit Bulgarije vermeld werden, moeten geschrapt worden van de lijst omdat de dieren tot andere soorten behoren. Van een heleboel andere soorten worden faunistische mededelingen gedaan.

**Résumé.** Études d'Hétérocères de Bulgarie (Lepidoptera). Le présent article mentionne sept hétérocères nouveaux pour la faune bulgare : *Eupithecia irriguata* Hübner, *Ecliptopera capitata* Herrich-Schäffer, *Mythimna impura* Hübner, *Cryphia amasina* Draudt, *Cryphia seladona* Christoph, *Spodoptera cilium* Guenée et *Melipotis arcuinna* Hübner. De plus, il résulte d'un examen approfondi que quelques autres espèces qui furent signalées de Bulgarie antérieurement, doivent être rayées de la liste. En effet, les exemplaires examinés se rapportent à d'autres espèces. Des renseignements faunistiques concernant toute une série d'espèces sont aussi communiqués.

In this work 7 species new for the Bulgarian fauna are reported : *Eupithecia irriguata* Hübner, *Ecliptopera capitata* Herrich-Schäffer, *Mythimna impura* Hübner, *Cryphia amasina* Draudt, *Cryphia seladona* Christoph, *Spodoptera cilium* Guenée and *Melipotis arcuinna* Hübner. Furthermore distribution data for rare species are given. The reports of Sphinges and Bombyces are not included in the «Catalogue of Bulgarian Sphinges and Bombyces». According to my investigations *Dryobotodes cerris* Boisduval does not occur in Bulgaria. I studied material from all the mentioned places and it always turned out to be *Dryobotodes carbonis* Wagner. The species *Chloroclysta miata* L. reported by BOTCHAROV (1959) should be determined as *Chloroclysta siterata* Hufnagel. In the same way *Narraga fasciolaria* from Stara planina collected by BOTCHAROV (GANEV & BOTCHAROV, 1982) was determined as *Narraga tessularia* Metzner. These two species must be deleted from the list of Bulgarian Geometridae, because they are the unique reports for these species in Bulgaria. The species *Conisania leineri* Freyer does not occur in Bulgaria either. All data reported for this species in fact refer to *Conisania renati* Ochsenheimer. The material which I collected from the Natural History Museum Pleven is given in the text abbreviated as : (NHMP).

## Systematic part

### Hepialidae

*Triodia amasinus* Herrich-Schäffer : Rhodopi mn., river Lukovitza near Ase-novgrad, 8-ix-1983.

*Triodia adriaticus* Osthelder : Kressna gorge, 9-ix-1983 (coll. KIRIAKOV). All the old reports for this species refer to *T. amasinus* Herrich-Schäffer. The new mentioning of this species in Bulgaria is from great interest for its distribution, which is very local. According to WITT (1981) the distribution of *T. adriaticus* in Europe is : Istria, Macedonia-Dorjan Sea, Greece, Thermopilae, Pelopones.

## Cossidae

*Phragmataecia castaneae* Hübner : N.-Bulgaria, Island Persina-Donau, in June (coll. NHMP).

## Lasiocampidae

*Trichiura crataegi* Linnaeus : Rhodopi mn., mine Persenk, 900 m, 11-ix-1983; Stara planina mn., Etropol cloister, 13-ix-1983 (coll. KRUSHOVSKI).

*Lasiocampa grandis* Rogenhofer : v. Tzegrilovtzi near Tràn, 3-ix-1973 (coll. NHMP). Until now this species was reported only from the eastern part of the country. The presence of this species in the western part of the Balkan Peninsula was established only in Macedonia, Treska gorge (WITT, 1982).

*Gastropacha populifolia* Esper : N.-Bulgaria, Island Persina-Donau, in July.

## Geometridae

*Archiearis notha* Hübner : Zemen gorge, 17-iii-1983.

*Comibaena neriaria* Herrich-Schäffer : South Black Sea coast, v. Varvara near Achtopol, in July (coll. LUKOV).

*Euphyia scripturata* Hübner : Stara Planina mn., Iskar gorge-Lakatnik, 28-vi-1983.

*Ecliptopera capitata* Herrich-Schäffer : Stara planina mn., Etropol cloister, 16-vii-1981 (leg. LUKOV). Vitosha mn., h.Ban, 1450 m, 23-vi-1969 (coll. VICHODZEVSKIJ). Rila mn., Kostenetz, 5-vi-1971 (leg. BOTCHAROV).

*Ecliptopera capitata* Herrich-Schäffer : Stara Planina mn., Etropol cloister, 16-vii-1981 (leg. LUKOV). Stara Planina, h.Haidushka pesen, in July (leg. RAITCHEV).

*Electrophaes corylata* Thunberg : Stara Planina mn., Etropol cloister, 22-vi-1982 (leg. LUKOV). Vitosha mn., h.Ban, 1450 m, 23-vi-1969 (coll. VICHODZEVSKIJ). Rila mn., Kostenetz, 5-vi-1971 (leg. BOTCHAROV).

*Anticlea badiata* Denis & Schiffermüller : v.Boinitza near Vidin, 24-vi-1983 (coll. PETKOV).

*Eupithecia irriguata* Hübner : Ograzden mn., v. Sestrino, 650 m, 23-iv-1983, 1 ♂.

*Calospilos sylvata* Scopoli : Stara Planina mn., h. Haidushka pesen, 29-vi-1979 (coll. NHMP).

*Stegania dilectaria* Hübner : v.Boinitza near Vidin, 23-iv-1983 (coll. PETKOV).

*Artiora evonymaria* Denis & Schiffermüller : N.-Bulgaria, h.Bozur near Gorna Orjahovitza, 24-ix-1980 (coll. NHMP).

*Serraca punctinalis* Scopoli : Silistra, 22-viii-1982 (leg. PENEV). v.Boinitza, 23-iv-1983 (coll. PETKOV).

*Ectropis bistortata* Goeze : Island Persina, Donau, 21-vi-1982.

*Gnophos sartata* Treitschke : Rhodopi mn., river Lukovitza, 8-ix-1983.

### Notodontidae

- Cerura vinula* Linnaeus : Rhodopi mn., r. Lukivitz, 26-iv-1983.  
*Drymonia melagona* Borkhausen : v.Tzegrilovtzi near Tràn, 16-vi-1973 (coll. NHMP).  
*Drymonia querna* Denis & Schiffermüller : v. Tzegrilovtzi, 27-vii-1953 (coll. NHMP).  
*Ptilophora plumigera* Denis & Schiffermüller : v.Tzegrilovtzi, 19-x-1973 (coll. NHMP).  
*Ptilodontella cucullina* Denis & Schiffermüller : v.Tzegrilovtzi, 18-vii-1973, (coll. NHMP).  
*Clostera anachoreta* Denis & Schiffermüller : Vidin in May (coll. PETKOV).

### Lymantriidae

- Ocneria rubea* Fabricius : v.Tzegrilovtzi, in August (coll. NHMP).

### Arctiidae

- Atolmis rubricollis* Linnaeus : v.Tzegrilovtzi in June (coll. NHMP).  
*Diaphora luctuosa* Geyer : Rhodopi mn., r. Lukovitz, 26-iv-1983.  
*Phragmatobia placida* Freyer : Vidin in May (coll. PETKOV).  
*Chelis maculosa* Gerning : v.Tzegrilovtzi in June (coll. NHMP).  
*Eucharia casta* Esper : v.Tzegrilovtzi in June (coll. NHMP).

### Noctuidae

- Ochropleura signifera* Denis & Schiffermüller : v.Tzegrilovtzi, 9-vi-1973 (coll. NHMP).  
*Eugnorisma depuncta* Linnaeus : Rhodopi mn., mine Persenk, 11-ix-1983.  
*Eugnorisma pontica* Staudinger : in the material in NHM Sofia determined as *E. depuncta* I found 2 ♂ from Kressna gorge dated : 16-viii-1912 (leg. ILTCHEV) and 19-ix-1912 (leg. ILTCHEV).  
*Rhyacia lucipeta* Denis & Schiffermüller : v.Tzegrilovtzi, 1-xi-1972 (coll. NHMP).  
*Chersotis rectangula* Denis & Schiffermüller : v.Tzegrilovtzi, 16-vi-1973 (coll. NHMP).  
*Chersotis multangula* Hübner : Rhodopi mn., mine Persenk, 11-ix-1983.  
*Chersotis cuprea* Denis & Schiffermüller : Stara Planina mn., h.Pleven, 1540 m, in July (coll. NHMP).  
*Noctua haywardi* Tams : v.Tzegrilovtzi, 10-ix-1973 (coll. NHMP).  
*Xestia cohaesa* Herrich-Schäffer : Kozuch, in September; Ograzden mn., v.Tchuritchene, 600 m, 16-ix-1983, 5 ♂. For the Balkan Peninsula only reported from Greece and Yugoslavian Macedonia.  
*Mesogona oxalina* Hübner : v.Tzegrilovtzi, 16-ix-1973 (coll. NHMP).  
*Sideridis anapheles* Nye : v.Dolni Bogorov near Sofia, 15-vi-1981, in a feromon trap.  
*Orthosia opima* Hübner : Vitosha mn., Bunkera, 730 m, 8-iv-1983.



Fig. 1 : *Cryphia seladona burgefii* Draudt, Bulgaria, Kozuch, 14-ix-1983, leg. and coll. J. GANEV.  
(Foto : B. ANEV, Sofia)

*Orthosia gracilis* Denis & Schiffermüller : Vidin, 2-iv-1981 (coll. PETKOV).

*Orthosia munda* Denis & Schiffermüller : Vidin, 2-iv-1983 (coll. PETKOV).

*Perigrapha i-cinctum* Denis & Schiffermüller : Golo Bardo mn., 3-iv-1983, 900 m.

*Mythimna impura* Hübner : Rhodopi mn., Tchepelare, 10-vii-1976, 1 ♂. Vitosha mn., Bunkera, 30-vi-1979, 1 ♂ and 1 ♀.

*Mythimna congrua* Hübner : Evksinograd near Varna, 5-ix-1981. Pazardzik.

*Mythimna straminea* Treitschke : Zemen gorge, Skakavitza railway-station, 9-vii-1980, Kostinbrod near Sofia, 12-vii-1975.

*Cucullia absinthii* Linnaeus : Kiustendil, 17-vii-1974; Kostinbrod, Blagoevgrad.

*Cucullia lactucae* Denis & Schiffermüller : Belasitza mn., h. Belasitza, 16-vi-1982.

*Cucullia scopariae* Dorfmeister : Kressna gorge, 2-ix-1983.

*Cucullia lychnitis* Rambur : Kressna gorge, 22-vi-1981. Zemen gorge, Skakavitza, 29-v-1982. Kostinbrod, 12-v-1979. Rhodopi mn., mine Persenk, 5-vi-1981.

*Cucullia blattariae* Esper : Zemen gorge, Skakavitza, 29-v-1982.

*Episema scoriacea* Esper : Vidin in September (coll. PETKOV).

*Aporophyla lutulenta* Denis & Schiffermüller : Vidin, 8-x-1981 (coll. PETKOV).

*Lithophane socia* Hufnagel : Stara Planina mn., Etropol cloister, 12-ix-1981 (leg. KRUSHOVSKI).

*Blepharita satura* Denis & Schiffermüller : Rhodopi mn., mine Persenk, 11-ix-1983; Vitosha mn., Bunkera, 30-ix-1983.

*Polymixis polymita* Linnaeus : Vidin in September (coll. PETKOV).

*Conistra torrida* Lederer : Vitosha mn., Bunkera, 28-i-1983; in a feromon trap.

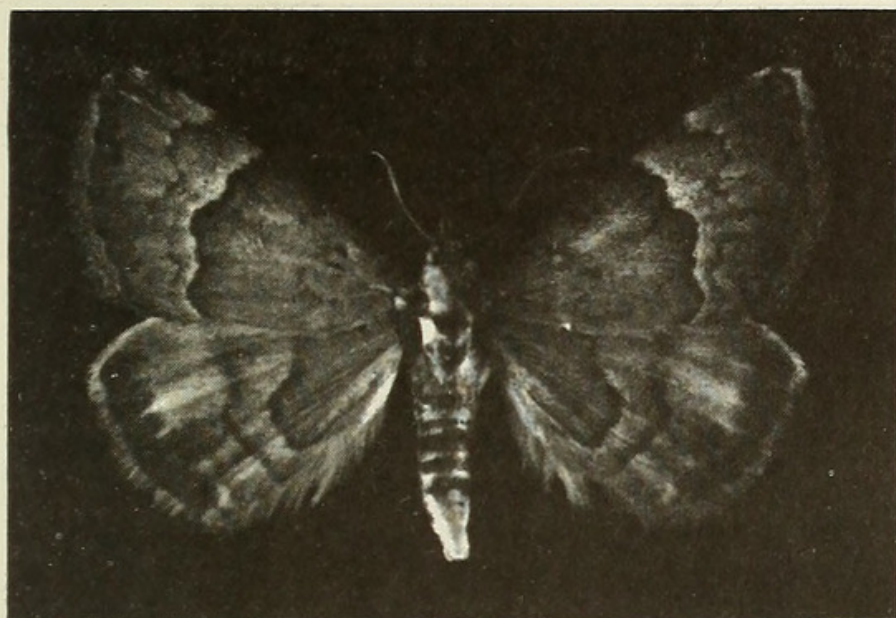


Fig. 2: *Melipotis arcuinna* Hübner, Bulgaria, Svilengrad, 5-vii-1983, leg. and coll. D. KIRIAKOV.  
(Foto : B. ANEV, Sofia)

- Moma alpium* Osbeck : Stara Planina mn., h.Haidushka pesen, 29-vi-1979, (coll. NHMP).
- Cryphia ochsi* Boursin : v.Hârsovo near Blagoevgrad, in August (leg. PENEV); Karlovo, 28-vii-1962; Kressna, 20-vii-1982.
- Cryphia seladona burgefii* Draudt : Kressna gorge in September, Kozuch, 14-ix-1983, 1 ♂; Ograzden mn., v.Ribnik, 16-ix-1983, 1 ♀. From the Balkan Peninsula this species is only reported from Greece and Jugoslavia.
- Cryphia tephrocharis* Boursin : Rhodopi mn., r.Lukovitza, 8-ix-1983.
- Cryphia amasina* Draudt : Kressna gorge, 16-ix-1980; Kozuch near Petric, 1-ix-1982, 5/12-vii-1983. Ograzden mn., v.Ribnik, 3-ix-1983, 1 ♂. From the Balkan Peninsula only reported from Jugoslavian Macedonia.
- Enargia paleacea* Esper : Stara Planina mn., h.Pleven in July (coll. NHMP).
- Cosmia affinis* Linnaeus : Rhodopi mn., r.Lukovitza, 8-ix-1983.
- Actinotia polyodon* Clerck : Stara Planina mn., h.Pleven in July (coll. NHMP).
- Apamea epomidion* Haworth : Kressna, 31-v-1977 (leg. LUKOV).
- Apamea anceps* Denis & Schiffermüller : v.Boinitza near Vidin, 21-v-1983 (coll. PETKOV).
- Photedes captiuncula* Treitschke : Rhodopi mn., h.Belite brezi, 900 m, 2-vi-1981.
- Celaena leucostigma* Hübner : v.Polski Trambesh near Tàrnovo, 10-vii-1983, 4 ♂ in a feromon trap.
- Archanara geminipuncta* Haworth : Vitosha mn., Bunkera, 18-vii-1981.
- Sesamia cretica* Lederer : Kulata, Blagoevgradsko, 28-ix-1979.
- Spodoptera cilium* Guenée : Strandza mn., Malko Tàrnovo, 4-viii-1983, 1 ♀.
- Caradrina terrea* Freyer : Rhodopi mn., mine Persenk, 11-ix-1983.
- Athetis gluteosa* Treitschke : Silistra, 22-viii-1982 (leg. PENEV).

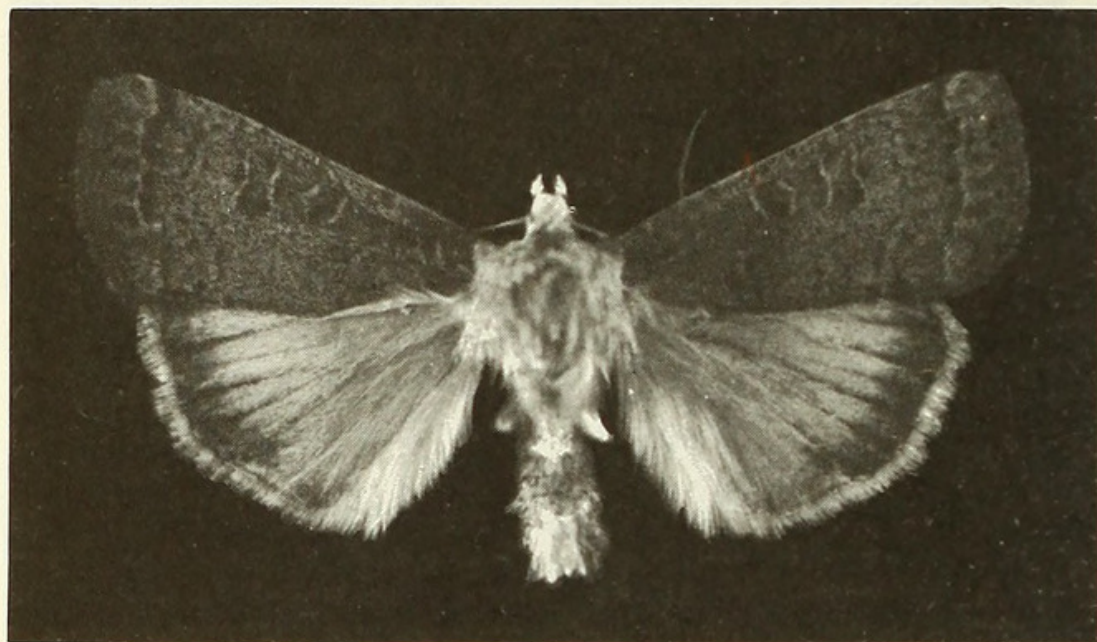


Fig. 3 : *Xestia cohaesa* Herrich-Schäffer, Bulgaria, Ograzden mn., v.Tchuritchene, 16-ix-1983, leg. and coll. J. GANEV. (Foto : B. ANEV, Sofia)

*Melipotis arcuinna* Hübner : Svilengrad, 5-vii-1983 (coll. KIRIAKOV).

*Deltote candidula* Denis & Schiffermüller : v.Boinitza near Vidin, 14-v-1983 (coll. PENEV).

*Deltote candidula* Denis & Schiffermüller : Silistra, 22-viii-1982 (leg. PENEV).

*Abrostola asclepiadis* Denis & Schiffermüller : v.Boinitza near Vidin, 14-v-1983 (coll. PETKOV).

*Catocala sponsa* Linnaeus : Rhodopi mn., h.Dobra voda, 800 m, 10-vii-1983.

*Catocala lupina* Herrich-Schäffer : Kressna gorge in September (coll. LUKOV).

*Polypogon tentacularia* Linnaeus : v.Pantcherevo near Sofia, 3-vii-1982.

*Trisateles emortualis* Denis & Schiffermüller : Rhodopi mn., h.Dobra voda, 12-vii-1983.

*Schranksia taenialis* Hübner : Rhodopi mn., r.Lukovitza, 8-ix-1983.

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