

Records of moths from the area of Stara Zagora City (Sarnena Gora Mts): literature review and a case study (Lepidoptera)

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Abstract. Data for 333 Lepidoptera species from Sarnena Gora Mts, mostly from the surroundings of Stara Zagora City, both from original and literature data are reported. Material was collected in 11 localities, 189 species are new for the explored area. One species: *Mirificarma maculatella* (Hübner, 1796) is new for the Bulgarian fauna. This list do not pretended to be complete, it is a preliminarily one.

Key words: Lepidoptera, Bulgaria, faunistic, Sredna Gora Mts.

Introduction

The moths of Sarnena Gora Mts are not studied in detail. Some species records were published by Nedyalkov (1909) for Stara Zagora, and by Tuleshkov (1965), mainly for the area of Stara Zagora City and Starozagorski Mineralni Bani Resort. Data for some new and rare for Bulgaria species, collected near Buzovgrad Village are presented in the article of Bocharov (1959). Here we summarize all these records and report some new ones mainly from a house yard in Hrishteni village, approximately 7 km east of Stara Zagora City and from three nights collecting at light above Stara Zagora City. More research is needed during the whole year and in different localities and habitats to complete the species list.

Material and Methods

Part of materials were collected during 2018-2020 by Dilian Georgiev (and one specimen by his little son Julian, mentioned in the species list below) and after identified by Ilcho Kolev. Some old records were also reported (e.g. *Acherontia atropos* (Linnaeus, 1758), during 90s in Stara Zagora city). We report of few species recorded mainly in one house yard at Hrishteni village. Majority of the Pyraloidea specimens, photographed by Dilian Georgiev in 2020 and collected in October, 07 2020 are identified by Colin W. Plant (Bishops Stortford, UK), to whom we express our sincere gratitude. Dr Boyan Zlatkov (IBER, Sofia, Bulgaria) identified the Tortricidae specimens from October, 2020.

Another part of material, originated from loc. 11 was collected at light by SB & AN during three nights. Collecting methodology involved 2 portable light traps with an 8 watt actinic (368 nm) and 8 watt "Blacklight", both powered by 12 volt 9Ah batteries, as well as a Finnish "tent trap" with a 160 watt MV bulb at the top of the pole and a 20 watt (368 nm) black light over the catching pot below. An additional 20 watt (368nm) lamp was also

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positioned about 70 m from the tent trap. The distance between the Finnish “tent trap” and the light traps, as well as between the light traps themselves was sometime more than 1 km, as they were deployed in different positions and habitats if wherever possible. All traps ran throughout the night.

Genitalia were fixed on glass slides in Euparal mountant after staining with a 2% Merbromin solution. All genitalia slides were photographed by S. Beshkov with a Zeiss stereo microscope Stemi 2000-C with axioCameRc 5s camera; solitary everted vesicas were photographed in alcohol before mounting on glass. Insects and collecting places were photographed with Sony DSChX400v digital camera.

List of localities and collection methods:

1. Hrishteni vill., yard of a house, under light, hand collecting, collecting of dead individuals and photographing;
2. N of Dalboki vill., along small stream, among bushes and rocks, N42 29 30.0 E25 46 13.3, 329 m;
3. N of Lyulyak vill., old stone quarry, grasses and bushes near *Quercus* forest, N42 31 21.8 E25 40 33.19, 569 m;
4. W of Kolena vill., *Pinus nigra* plantation, N42 28 58.1 E25 42 20.4, 359 m, beer trap;
5. S of Kolena vill., grasslands and bushes near agricultural lands, N42 28 4.42 E25 43 30.03, 225 m;
6. Stara Zagora city, Ayazmoto Park, under the lamps of “Jurassic” Restaurant, N42 26 20 E25 37 0.88, 339 m;
7. S of Hrishteni vill., near water source and a stream, wine vinegar trap hanging on *Sambucus* tree, N42 27 03.51 E25 42 8.88, 221 m
8. S of Shanovo vill., *Quercus* spp. and *Carpinus* spp. forest, netting, N42 31 32.01 E25 38 54.45, 500 m
9. Hadzhiolova Korja Hill, W of Hrishteni vill., sparse *Quercus* spp. forest with meadows and bushes, N42 26 55.37 E25 41 52.51, 242 m
10. S of Lyulyak vill., large meadow with bushes near *Quercus* spp. and *Carpinus* spp. forest, N42 30 1.24 E25 41 6.96, 379 m a.s.l.
11. Above Stara Zagora City on the road to Dubrava, 458m, N42.4376, E025.5959, meadows with *Carpinus*, *Ulmus*, *Paliurus spins-christi*, *Jasminum*, *Syringa*, *Dictamnus albus*, *Euphorbia*, S. Beshkov & A. Nahirić leg. at lamps and light traps.

Results

A total of 333 species from 29 families are reported for the studied area of which 189 species are registered only during present study. One species: *Mirificarma maculatella* (Hübner, 1796) is new for the Bulgarian fauna. Families are arranged according to Aarvik *et al.* (2017). The sequence and nomenclature of families Erebidae and Noctuidae follow Yela *et al.* (2011) with subsequent changes incorporated from recent taxonomic revisions. The Geometridae are arranged according to Hausmann & Sihvonen (2019). For remaining groups, we have followed the *Fauna Europaea* website.

Hepialidae

***Triodia sylvina* (Linnaeus, 1761):** loc. 11, 7.10.2020.

Incurvariidae

***Incurvaria masculella* (Denis & Schiffermüller, 1775):** loc. 8, 25.4.2020.

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Adelaidae

***Adela reaumurella* (Linnaeus, 1758)**: loc. 8, 25.4.2020; loc. 10, 05.5.2020, identified on picture taken by D. Georgiev.

***Nematopogon* sp.**: loc. 8, 25.4.2020.

Psychidae

***Canephora hirsuta* (Poda, 1761)**: loc.1, 26.4.2020 (case).

Tineidae

***Trichophaga trapetzella* (Linnaeus, 1758)**: loc. 1, 13.6.2020.

***Euplocamus anthracinalis* (Scopoli, 1763)**: loc. 2, 6.5.2018.

***Euplocamus ophisa* (Cramer, 1776)**: loc. 1, 31.5.2020, 01.6.2020.

Gracillariidae

***Phyllonorycter* sp.**: loc. 1, 17.4.2018.

Ypsolophidae

***Ypsolopa persicella* (Fabricius, 1787)**: loc. 11, 7.10.2020, genitalia checked.

Plutellidae

***Plutella xylostella* (Linnaeus, 1758)**: loc 1, 13-18.6.2018, 4-5.7.2018, 22.6.2019; loc. 11, 7.10.2020.

Tortricidae

***Philedone gerningana* (Denis & , 1775)**: loc. 11, 7.10.2020.

***Cnephasia* sp. 1**: loc. 6, 20.4.2018.

***Cnephasia* sp. 2**: loc. 1, 04.6.2020.

***Clepsis pallidana* (Fabricius, 1776)**: loc 1, 5.7.2018.

***Acleris rhombana* (Denis & Schiffermüller, 1775)**: loc. 11, 7.10.2020.

***Acleris variegana* (Denis & , 1775)**: loc. 11, 7.10.2020.

***Archips rosana* (Linnaeus, 1758)**: loc. 1, 31.5.2020.

***Agapeta hamana* (Linnaeus, 1758)**: loc. 1, 14.6.2020.

***Agapeta zoegana* (Linnaeus, 1767)**: loc. 11, 7.10.2020.

***Eugnosta magnificana* (Rebel, 1914)**: loc. 11, 7.10.2020.

***Celypha striana* (Denis & , 1775)**: loc. 1, 4.6.2020.

***Olethreutes arcuella* (Clerck, 1759)**: loc. 10, 05.5.2020, identified on picture taken by D. Georgiev. Sure identification is possible only after examination of genitalia. Probably misidentification with *O. subtilanus* is possible.

***Lobesia botrana* (Denis & , 1775)**: loc. 1, 4.7.2018, 10.7.2019, 25.4.2020.

***Epinotia nigristriana* Budashkin & Zlatkov, 2011**: loc. 11, 7.10.2020, genitalia checked. Reported from Kresna Gorge, Volcanic Hill of Kozhuh and Greece (B. Zlatkov, pers. comm.) and several localities in Eastern Rhodopes in BG (S. Beshkov, unpublished data).

***Notocelia incarnatana* (Hübner, 1800)**: loc. 11, 7.10.2020.

***Dichrorampha caucasica* (Danilevsky, 1948)**: loc. 11, 7.10.2020, genitalia checked. Reported from Kresna Gorge and Volcanic Hill of Kozhuh (B. Zlatkov, pers. comm.).

Limacodidae

***Apoda limacodes* (Hufnagel, 1766)**: loc. 1, 21.6.2019; loc. 11, 15.6.2019.

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Sesiidae

Chamaesphecia chalciformis (Esper, 1804): loc. 3, 18.5.2018.

Brachodidae

Brachodes appendiculata (Esper, 1783): loc. 11, 15.6.2019, collected at a day time.

Cossidae

Dyspessa salicicola (Eversmann, 1848): loc. 11, 15.6.2019.

Dyspessa ulula (Borkhausen, 1790): loc. 11, 5.5.2019.

Depressariidae

Agonopterix alstromeriana (Clerck, 1759): loc. 1, 14.3.2018.

Ethmia pusiella (Linnaeus, 1758): loc. 1, 14.3.2018; loc. 11, 7.10.2020.

Gelechiidae

Mirificarma maculatella (Hübner, 1796): loc. 11, 15.6.2019, 2 males (Figs 1, 2). New species for Bulgaria.

Thyrididae

Thyris fenestrella (Scopoli, 1763): loc 1, 7.5.2018; loc. 11, 15.6.2019, at a day time.

Pterophoridae

Cnaemidophorus rhododactyla (Denis & Schiffermüller, 1775): loc 1, 25.5.2018.

Emmelina monodactyla (Linnaeus, 1758): loc 1, 14.3.2018, 30.1.2019; loc. 8, 25.4.2020.

Pyralidae

Phycita sp.: loc 1, 14.7.2020.

Oxybia transversella (Duponchel, 1836): loc. 11, 7.10.2020.

Stemmatophora brunnealis (Treitschke, 1829): loc 1, 19.8.2019.

Episcythrastis tabidella (Mann, 1864): loc. 1, 31.8.2020. For 100% sure identification need genitalia examination to eliminate e.g., *Ephestia* spp.

Asalebria or *Psorosa* sp. Examination of genitalia is necessary. Might be an important species.

Pyralis farinalis Linnaeus, 1758: loc 7, 20-21.5.2018.

Endotricha flammealis (Denis & Schiffermüller, 1775): loc. 1, 13.8.2020.

Aglossa pinguinalis (Linnaeus, 1758): loc 1, 14.7.2020.

Actenia (= *Stemmatophora brunnealis*) (Treitschke, 1829): loc. 1, 31.8.2020.

Hypsopygia costalis (Fabricius, 1775): loc 1, 8.5.2018, 07.6.2020.

Crambidae

Agriphila tristella (Denis & Schiffermüller, 1775): loc. 11, 7.10.2020.

Agriphila tolli (Bleszyński, 1952): loc. 11, 7.10.2020.

Chrysocrambus cassentiniellus (Herrich-Schäffer, [1848]) (= *linetella* Fabricius, 1781): loc. 1, 13-18.6.2018.

Thisanotia chrysonuchella (Scopoli, 1763): loc. 9, 26.4.2020.

Cynaeda dentalis (Denis & Schiffermüller, 1775): loc. 1, 15.6.2018.

Hellula undalis (Fabricius, 1781): loc. 1, 31.8.2020; 11: 7.10.2020, genitalia checked. Probably immigrant.

Pyrausta aurata (Scopoli, 1763): loc. 1, 25.4.2020; loc. 8, 25.4.2020.

Sitochroa verticalis (Linnaeus, 1758): loc. 1, 10.4.2018, 8.5.2018; loc. 4, 05.6.2020.

Ostrinia nubilalis (Hübner, 1796): loc. 1, 19.8.2019.

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***Metasia ophialis* (Treitschke, 1829)**: loc. 1, 10.7.2019; loc. 11, 7.10.2020.

***Udea ferrugalis* (Hübner, 1796)**: loc. 11, 7.10.2020.

***Nomophila noctuella* (Denis & Schiffermüller, 1775)**: loc. 1, 11.7.2019, 11.8.2019, 15.9.2019.

***Palpita vitrealis* (Rossi, 1794)**: loc. 11, 7.10.2020.

***Cydalima perspectalis* (Walker, 1859)**: loc. 1, 17.5.2018, 3.9.2019, 17.9.2020. Remark: recently found in the area as an invasive species.

Drepanidae

***Watsonalla binaria* (Hufnagel, 1767)**: loc. 11, 7.10.2020.

***Cilix glaucata* (Scopoli, 1763)**: loc. 1, 8.4.2018, 19.8.2019.

Geometridae

Geometrinae

***Aplasta ononaria* (Fuessly, 1783)**: reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City; loc. 11, 15.6.2019.

***Thetidea smaragdaria* (Fabricius, 1787)**: loc. 11, 5.5.2019; 15.6.2019.

***Hemistola chrysoprasaria* (Esper, 1795)**: loc. 1, 1.8.2019, 23.8.2019; loc. 11, 15.6.2019.

***Thalera fimbrialis* (Scopoli, 1763)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 15.6.2019.

***Hemithea aestivaria* (Hübner 1799)**: reported by Tuleshkov (1965) from Stara Zagora City.

***Chlorissa viridata* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from a fruit tree plantations above Stara Zagora City; loc. 11, 15.6.2019.

***Chlorissa cloraria* (Hübner, 1813)**: loc. 11, 15.6.2019.

***Phaiogramma etruscaria* (Zeller, 1849)**: loc. 1, 8.5.2018; 10.8.2020.

Ennominae

***Stegania dilectaria* (Hübner, 1790)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Dicrognophos sartata* (Treitschke, 1827)**: reported by Bocharov (1959) from Buzovgrad Village and by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Heliomata glarearia* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 15.6.2019.

***Isturgia murinaria* (Denis & Schiffermüller, 1775)**: loc. 1, 23.8.2019.

***Isturgia arenacearia* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Neognopharmia stevenaria* (Boisduval, 1840)**: loc. 1, 24.5.2018, 04.6.2020; loc. 11, 5.5.2019, 15.6.2019.

***Chiasmia clathrata* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Therapis flavicaria* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Pseudopanthera macularia* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 5.5.2019.

***Eilicrinia trinotata* (Metzner, 1845)**: loc. 1, 1.5.2018.

***Ennomos quercinaria* (Hufnagel, 1767)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.

***Ennomos erosaria* (Denis & Schiffermüller, 1775)**: loc. 11, 7.10.2020, 1 male, genitalia checked.

***Selenia lunularia* (Hübner, 1788)**: loc. 11, 5.5.2019.

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- Crocallis elinguaris* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Stara Zagora City.
- Alsophila aescularia* (Denis & Schiffermüller, 1775)**: loc. 1, 13.2.2019, 1.3.2019.
- Dasycorsa modesta* (Staudinger, 1879)**: loc. 1, 24.4.2019; also reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019, 1 male.
- Apochima flabellaria* (Heeger, 1838)**: loc. 1, 5.2.2019, 6.3.2019.
- Theria rupicaprararia* (Denis & Schiffermüller, 1775)**: loc. 1, 30.1.2019.
- Charissa obscurata* (Denis & , 1775)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 15.6.2019.
- Charissa onustaria* (Herrich-Schäffer, 1852)**: loc. 11, 5.5.2019.
- Dyscia conspersaria* (Denis & , 1775)**: according to Tuleshkov (1965) reported by Dimitrov from Stara Zagora City. Perhaps this report concerns *Dyscia innocentaria sicanaria* (Oberthür, 1923) which is a common species in Bulgaria.
- Apocheima hispidaria* (Denis & Schiffermüller, 1775)**: loc. 1, 3.2.2019.
- Phigalia pilosaria* (Denis & Schiffermüller, 1775)**: loc. 1, 30.1.2019.
- Hypomecis punctinalis* (Scopoli, 1763)**: loc. 1, 8.4.2018.
- Lycia graecarius* (Staudinger, 1861)**: loc. 5, 3.4.2018, 1♀.
- Agriopsis aurantiaria* (Hübner, 1799)**: loc. 1, 21.1.2019.
- Agriopsis marginaria* (Fabricius, 1776)**: loc. 1, 20.2.2019.
- Nychoides waltheri* Wagner, 1919**: loc. 1, 24.5.2018, 3.6.2018; loc. 11, 15.6.2019, 2 males, genitalia checked.
- Selidosema plumaria* (Denis & Schiffermüller, 1775)**: loc. 11, 7.10.2020. Reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City as *ericetaria* Villers, 1789, which is a synonym of *Selidosema brunnearia* (Villers, 1789), a species not presented on the Balkan Peninsula.
- Peribatodes rhomboidaria* (Denis & Schiffermüller, 1775)**: loc. 1, 9.5.2018; also reported by Tuleshkov (1965) from the hills above Stara Zagora City; Loc. 11, 5.5.2019
- Peribatodes correpteria* (Zeller, 1847)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City as *Boarmia perversaria correpteria* Z.
- Peribatodes umbraria* (Hübner, 1809)**: loc. 1, 10.5.2018.
- Eumannia oppositaria* (Mann, 1864)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.
- Asovia maeoticaria* (Alphéraky, 1876)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 1, 1.5.2018; loc. 11, 5.5.2019.

Sterrhinae

- Idaea rufaria* (Hübner, 1799)**: loc. 11, 15.6.2019, 4 males and 2 females, male genitalia checked.
- Idaea ochrata* (Scopoli, 1763)**: loc. 1, 13-18.6.2018; also reported by Tuleshkov (1965) from the hills above Stara Zagora City.
- Idaea rusticata* (Denis & Schiffermüller, 1775)**: loc. 1, 17.5.2018, 23.6.2019; also reported by Tuleshkov (1965) in great numbers from the hills above Stara Zagora City.
- Idaea filicata* (Hübner, 1799)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 5.5.2019.
- Idaea dilutaria* (Hübner, 1799)**: loc. 11, 15.6.2019, 1 male, Gen. prep. 3./04.V.2020, S. Beshkov, male genitalia on glass in euparal. Aedeagus with 3 big cornuti (Fig. 3), normally it is with two cornuti.
- Idaea politaria* (Hübner, 1799)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City as *Sterrrha popitata* Hb.
- Idaea subsericeata* (Haworth, 1809)**: loc. 1, 13.5.2018.
- Idaea camparia* (Herrich-Schäffer, 1852)**: loc. 1, 31.6.2020.

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- Idaea ostrinaria* (Hübner, 1813)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.
- Idaea degeneraria* (Hübner, 1799)**: loc. 1, 1.5.2018, 17.5.2018; loc. 11, 7.10.2020.
- Idaea straminata* (Borkhausen, 1794)**: loc. 1, 17.5.2018, 8.6.2018.
- Idaea deversaria* (Herrich-Schäffer, 1852)**: loc. 11, 15.6.2019, 1 male, genitalia checked, on paper.
- Scopula ornata* (Scopoli, 1763)**: loc. 1, 26.4.2020; loc. 11, 5.5.2019, 7.10.2020. Also reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort and Ayazmoto Park in Stara Zagora City.
- Scopula decorata* (Denis & , 1775)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 5.5.2019.
- Scopula rubiginata* (Hufnagel, 1767)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City as "*Scopula ternata* Schr (= *Acidalia rubiginata* Hufn) (749)". The number 749 from Buresh & Tuleshkov (1936) is associated to *Scopula rubiginata*, not to *S. ternata*.
- Scopula marginepunctata* (Goeze, 1781)**: loc. 1, 25.5.2018; also reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 5.5.2019; 15.6.2019; 7.10.2020.
- Scopula confinaria* (Herrich-Schäffer, 1847)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City as *Sterrha luridata confinaria* H. S.
- Rhodostrophia discolunctaria* Amsel, 1935**: loc. 11, 15.6.2019.
- Timandra comae* Schmidt, 1931**: loc. 1, 3.6.2018, 1.8.2018, 13.8.2018, 3.9.2018; also reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.
- Cyclophora albiocellaria* (Hubner, 1789)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.
- Cyclophora pupillaria* (Hübner, 1799)**: loc. 11, 15.6.2019, 7.10.2020.
- Cyclophora ruficiliaria* (Herrich-Schäffer, 1855)**: reported by Tuleshkov (1965) from a fruit tree plantations above Stara Zagora City; loc. 11, 5.5.2019, 1 male, genitalia checked, on paper.
- Cyclophora suppunctaria* (Zeller, 1847)**: reported by Tuleshkov (1965) from a fruit tree plantations and vineyards above Stara Zagora City; loc. 11, 5.5.2019, 1 male, genitalia checked, on paper.
- Cyclophora linearia* (Hübner, 1799)**: reported by Tuleshkov (1965) from a fruit tree plantations above Stara Zagora City.

Larentiinae

- Aplocera plagiata* (Linnaeus, 1758)**: loc. 11, 5.5.2019, 7.10.2020. Reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.
- Asthena albulata* (Hufnagel, 1767)**: reported by Nedyalkov (1909) from Stara Zagora City and Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019.
- Orthonama obstipata* (Fabricius, 1794)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.
- Xanthorhoe fluctuata* (Linnaeus, 1758)**: loc. 1, 27.3.2019, 25.4.2020; also reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 5.5.2019.
- Protorhoe corollaria* (Herrich-Schäffer, 1848)**: loc. 1, 5.7.2018.
- Camptogramma bilineata* (Linnaeus, 1758)**: loc. 4, 05.6.2020; loc. 11, 7.10.2020.
- Earophila badiata* (Denis & Schiffermüller, 1775)**: loc. 1, 22.3.2019.
- Pennithera firmata* (Hübner, 1822)**: loc. 11, 7.10.2020.
- Thera variata* (Denis & Schiffermüller, 1775)**: loc. 11, 5.5.2019.
- Coenotephria ablutaria* (Boisduval, 1840)**: loc. 11, 7.10.2020.
- Operophtera brumata* (Linnaeus, 1758)**: loc. 1, 18.1.2019.

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***Horisme vitalbata* (Denis & Schiffermüller, 1775):** loc. 1, 9.5.2018; loc. 11, 5.5.2019, 15.6.2019.

***Horisme corticata* (Treitschke, 1835):** loc. 1, 9.4.2018, 26.4.2020; also reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 5.5.2019, 15.6.2019.

***Perizoma albulata* (Denis & Schiffermüller, 1775):** loc. 11, 15.6.2019.

***Gymnoscelis rufifasciata* (Haworth, 1809):** loc. 1, 12.3.2019.

***Eupithecia linariata* (Denis & Schiffermüller, 1775):** reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Eupithecia silenicolata* Mabille, 1867:** reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City.

***Eupithecia graphata* (Treitschke, 1828):** reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Eupithecia breviculata* (Donzel, 1837):** reported by Bocharov (1959) from Buzovgrad Village.

***Eupithecia centaureata* (Denis & Schiffermüller, 1775):** loc. 1, 12.5.2018, 9.6.2018; loc. 11, 5.5.2019.

***Eupithecia denotata* (Hübner, 1813):** reported by Tuleshkov (1965) from the hills above Stara Zagora City.

Lasiocampidae

***Trichiura crataegi* (Linnaeus, 1758):** reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Malacosoma neustria* (Linnaeus, 1758):** reported by Tuleshkov (1965) from Stara Zagora City.

***Malacosoma castrensis* (Linnaeus, 1758):** loc. 1, 11.6.2018; loc. 11, 15.6.2019.

***Macrothylacia rubi* (Linnaeus, 1758):** reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Gastropacha quercifolia* (Linnaeus, 1758):** loc. 1, 17.8.2018, loc. 11, 15.6.2019.

Brahmaeidae

***Lemonia balcanica* (Herrich-Schaffer, 1847):** loc. 11, 7.10.2020. Reported by Tuleshkov (1965) from Stara Zagora City.

Saturniidae

***Saturnia pyri* (Denis & , 1775):** loc. 1 (two copulating specimens on a house wall, during daytime, observed and photographed), 15.4.2019; also reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019.

Sphingidae

***Laothoe populi* (Linnaeus, 1758):** loc 1, 19.8.2019.

***Marumba quercus* (Denis & , 1775):** loc. 2, 6.3.2018; loc. 11, 15.6.2019.

***Sphinx ligustri* Linnaeus, 1758:** reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort and Ayazmoto Park in Stara Zagora City; loc. 11, 15.6.2019.

***Agrius convolvuli* (Linnaeus, 1758):** many observations in Stara Zagora City and one specimen registered in Hrishteni village during 2018 and August, 13th 2020; the species was reported and by Tuleshkov (1965) for Ayazmoto Park in Stara Zagora City.

***Acherontia atropos* (Linnaeus, 1758):** two observations in Stara Zagora City during 90s.

***Macroglossum stellatarum* (Linnaeus, 1758):** many observations in Stara Zagora City and Hrishteni village.

MOTHS

***Hyles euphorbiae* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 1, 10.8.2020; loc. 11, 5.5.2019; 15.6.2019.

***Hyles livornica* (Esper, 1780)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 5.5.2019.

***Deilephila elpenor* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019.

***Deilephila porcellus* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019; 15.6.2019.

Notodontidae

***Drymonia dodonaea trimacula* (Esper, 1785)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019.

***Drymonia ruficornis* (Hufnagel, 1766)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City as *Drymonia chaonia* Hb.

***Drymonia velitaris* (Hufnagel, 1766)**: loc. 11, 15.6.2019, 1 male.

***Peridea anceps* (Goeze, 1781)**: reported by Bocharov (1959) from Buzovgrad Village as *Notodonta trepida* Esp.

***Dicranura ulmi* (Denis & Schiffermüller, 1775)**: loc. 11, 5.5.2019.

***Spatialia argentina* (Denis & Schiffermüller, 1775)**: loc. 1, 1.5.2018; also reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

Erebidae

Hypeninae

***Zekelita antiqualis* (Hübner, 1809)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 15.6.2019.

***Hypena rostralis* (Linnaeus, 1758)**: loc. 1, 14.3.2018; loc. 11, 7.10.2020.

Lymantriinae

***Lymantria monacha* (Linnaeus, 1758)**: loc. 1, 12.7.2020.

***Lymantria dispar* (Linnaeus, 1758)**: loc. 1, 3.7.2018, 17.7.2020; also reported by Tuleshkov (1965) from Stara Zagora City.

***Calliteara pudibunda* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Penthophera morio* (Linnaeus, 1767)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Euproctis chrysorrhoea* (Linnaeus, 1758)**: loc. 8, 25.4.2020.

Arctiinae

***Lithosia quadra* (Linnaeus, 1758)**: loc. 1, 8.8.2018.

***Eilema caniola* (Hübner, 1808)**: loc. 1, 13.5.2018; loc. 11, 15.6.2019, 7.10.2020.

***Lithosia complana* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 15.6.2019.

***Amata marjana* (Stauder, 1913)**: reported and by Tuleshkov (1965) for Ayazmoto Park in Stara Zagora City; loc. 11, 15.6.2019.

***Dysauxes famula* (Freyer, 1836)**: loc. 1, 23.8.2019, 05.6.2020; loc. 11, 15.6.2019.

***Phragmatobia fuliginosa* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.

***Epatolmis luctifera* (Denis & Schiffermüller, 1775)**: reported by Bocharov (1959) from Buzovgrad Village as *Arctinia caesarea* Goeze and by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

MOTHS

***Spilosoma lubricipeda* (Linnaeus, 1758)**: loc. 1, 1.5.2018, 16.3.2019, 5.5.2019, 13.8.2020; also reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Diaphora mendica* (Clerck, 1759)**: loc. 1, 18.4.2018 (1♂), 24.3.2019.

***Diacrisia purpurata* (Linnaeus, 1758)**: loc. 1, 11.4.2018, 1.6.2018, 14.6.2020; loc. 11, 15.6.2019.

***Ocnogyna parasita* (Hübner, 1790)**: loc. 1, 16.3.2019.

***Arctia villica* (Linnaeus, 1758)**: loc. 1, 8.5.2018, loc. 11, 5.5.2019.

Herminiinae

***Paracolax tristalis* (Fabricius, 1794)** (= *Herminia derivalis* Hübner 1796): reported by Tuleshkov (1965) from the fruit tree plantations of Ayazmoto Park in Stara Zagora City; Loc. 11, 15.6.2019.

***Herminia tarsipennalis* (Treitschke, 1835)**: reported by Bocharov (1959) from Buzovgrad Village.

***Pechipogo plumigeralis* Hübner, 1825**: loc. 1, 14.6.2020.

Toxocampinae

***Lygephila procax* (Hübner, 1813)**: (= *Ophiusa limosa* Treitschke, 1826): reported by Tuleshkov (1965) from Ayazmoto Hill in Stara Zagora City; Loc. 11, 5.5.2019.

***Lygephila viciae* (Hübner, 1822)**: loc. 1, 18.1.2019, 18.5.2019; loc. 4, 18-20.3.2018.

***Lygephila craccae* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from a *Cupressus* and *Cedrus* plantation at Ayazmoto Hill in Stara Zagora City; loc. 11, 15.6.2019, 7.10.2020.

***Autophila dilucida* (Hübner, 1808)**: reported by Bocharov (1959) from Buzovgrad Village. Missidentification with *Autophila limbata* (Staudinger, 1871) is possible.

Boletobiinae

***Phytometra viridaria* (Clerck, 1759)**: loc. 11, 15.6.2019.

***Eublemma purpurina* (Denis & Schiffermüller, 1775)**: loc. 1, 8.6.2018.

***Eublemma polygramma* (Duponchel, 1842)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 15.6.2019.

Erebinae

***Euclidia glyphica* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.

***Euclidia triquetra* (Denis & Schiffermüller, 1775)**: loc. 4, 05.6.2020.

***Minucia lunalis* (Denis & Schiffermüller, 1775)**: loc. 11, 5.5.2019; 15.6.2019.

***Dysgonia algira* (Linnaeus, 1767)**: loc. 11, 15.6.2019.

***Grammodes stolidia* (Fabricius, 1775)**: loc. 1, 1.8.2018, 8.5.2018.

Eutelidae

***Eutelia adulatrix* (Hübner, 1813)**: loc. 1, 3.8.2020.

Noctuidae

Acontiinae

***Acontia lucida* (Hufnagel, 1767)**: loc. 1, 9.6.2018; also reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Acontia titania* (Esper, 1781)** (= *urania* Friv.): loc. 11, 15.6.2019, 1 female.

***Acontia trabealis* (Scopoli, 1763)**: reported by Tuleshkov (1965) in great numbers from the hills above Stara Zagora City; loc. 1, 13.5.2018, 1.6.2018 (Julian Georgiev leg.), 13-18.6.2018; loc. 11, 15.6.2019.

MOTHS

Plusiinae

***Abrostola triplasia* (Linnaeus, 1758)**: loc. 1, 1.5.2018.

***Chrysodeixis chalcites* (Esper, 1789)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 7.10.2020.

***Macdunnoughia confusa* (Stephens, 1850)**: loc. 1, 26.4.2020; also reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Autographa gamma* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 15.6.2019.

Pantheinae

***Colocasia coryli* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

Cuculliinae

***Shargacucullia gozmanyi* Ronkay, G. & Ronkay, L., 1994**: Loc. 11, 5.5.2019, 1 male.

Eustrotiinae

***Phyllophilla obliterated* (Rambur, 1833)**: loc. 11, 15.6.2019.

***Deltote pygarga* (Hufnagel, 1766)**: loc. 11, 5.5.2019.

Metoponiinae

***Apautis rupicola* (Denis & Schiffermüller, 1775)**: reported by Bocharov (1959) from Buzovgrad Village.

Amphipyridae

***Amphipyra pyramidea* (Linnaeus, 1758)**: loc. 1, 3.2.2019.

***Amphipyra tragopoginis* (Clerck, 1759)**: loc. 11, 15.6.2019, 7.10.2020.

***Allophyes oxyacanthae* (Linnaeus, 1758)**: loc. 11, 7.10.2020.

***Asteroscopus sphinx* (Hufnagel, 1766)**: loc. 1, 15.1.2019.

***Asteroscopus syriaca decipulae* KOVACS, 1966**: reported by Beshkov (2000) from Stara Zagora City.

***Valeria oleagina* (Denis & , 1775)**: loc. 1, 14.3.2018, 7.3.2019.

***Meganephria bimaculosa* (Linnaeus, 1767)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 7.10.2020.

Acronictinae

***Craniophora ligustri* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City; Loc. 11, 5.5.2019.

***Acronicta megacephala* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Acronicta euphorbiae* (Denis & Schiffermüller, 1775)**: loc. 11, 5.5.2019; 15.6.2019.

***Acronicta rumicis* (Linnaeus, 1758)**: loc. 1, 20.4.2018; also reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

Oncocnemidinae

***Calophasia opalina* (Esper, 1793)**: reported by Tuleshkov (1965) from a pine tree plantation at Ayazmoto Hill in Stara Zagora City; loc. 11, 5.5.2019.

***Teinoptera olivina* (Herrich-Schäffer, 1852)**: reported by Bocharov (1959) from Buzovgrad Village; loc. 11, 5.5.2019; 15.6.2019.

Aediinae

MOTHS

***Aedia leucomelas* (Linnaeus, 1758)**: loc. 1, 9.5.2018, 12.5.2018, 13.5.2018, 3.6.2018, 19.8.2019, 26.8.2019, 18.9.2019; loc. 11, 7.10.2020.

***Tyta luctuosa* (Denis & Schiffermüller, 1775)**: Loc. 11, 15.6.2019.

Heliothinae

***Periphans delphinii* (Linnaeus, 1758)**: loc. 11, 15.6.2019.

***Heliothis peltigera* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 5.5.2019; 15.6.2019.

***Heliothis viriplaca* (Hufnagel, 1766)**: (= *dipsacea* L.): reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 5.5.2019.

***Heliothis incarnata* (Freyer, 1838)**: loc. 11, 15.6.2019.

***Helicoverpa armigera* (Hubner, 1808)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 5.5.2019, 7.10.2020.

Bryophilinae

***Cryphia fraudatricula* (Hübner, 1803)**: reported by Bocharov (1959) from Buzovgrad Village.

***Bryophila rectilinea* (Warren, 1909)** (= *ravula* sensu auct.): reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City; loc. 1: 31.8.2020, 17.9.2020. Specimens from loc. 1 are identified from picture, so misidentification or confusion with *Bryophila tephrocharis* (Boursin, 1954) seems possible.

Noctuinae

***Caradrina kadenii* (Freyer, 1836)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Caradrina clavipalpis* (Scopoli, 1763)**: loc. 1, 3.8.2020; reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.

***Hoplodrina ambigua* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 15.6.2019, 7.10.2020.

***Charanyca trigrammica* (Hufnagel, 1766)**: loc. 11, 5.5.2019.

***Dypterygia scabriuscula* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.

***Trachea atriplicis* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort and from the hills above Stara Zagora City.

***Thaupophila matura* (Hufnagel, 1766)**: loc. 11, 7.10.2020.

***Chloantha hyperici* (Denis & Schiffermüller, 1775)**: loc. 11, 5.5.2019; 15.6.2019.

***Phlogophora meticulosa* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City; loc. 1: 17.9.2020; loc. 11, 7.10.2020.

***Eremobia ochroleuca* (Denis & , 1775)**: reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City. More likely this report concerns *Eremobia asiatica* Draudt, 1936.

***Gortyna moesiaca* Herrich-Schäffer, 1849**: loc. 11, 7.10.2020, 1 male (fig. 4). This finding supports our opinion that *Gortyna borelii* is reported instead of *G. moesiaca* (see under *Gortyna borelii*).

***Gortyna borelii* (Pierret, 1837)**: reported by Tuleshkov (1965) as "*Hydroecia leucographa* BKH. var. *borelii* Pierret" from Stara Zagora City. This report seems to be a result of misidentification and concerns another species, not this one.

***Luperina testacea* ([Denis & Schiffermüller], 1775)**: reported by Bocharov (1959) from Buzovgrad Village as *Apamea testacea* Hb. from 08.VI.1948. Taking into account the flight period of the species (end of July-October), these cannot be *Luperina testacea*, or the collecting date is wrongly given. In the collection of Bocharov in National

MOTHS

Museum of Natural History, Sofia all specimens determined as *Luperina testacea* are *Luperina rubella*, but the flight period in June also do not fits for this species.

- Luperina rubella* (Duponchel, 1835):** loc. 11, 7.10.2020.
***Rhizedra lutosa* (Hübner, [1803]):** loc. 11, 7.10.2020.
***Mesapamea secalis* (Linnaeus, 1758):** reported by Tuleshkov (1965) from the fruit tree plantations and vineyards on the hills above Stara Zagora City. This report may concern also *Mesapamea secalella* Remm, 1983.
***Oligia latruncula* (Denis & Schiffermüller, 1775):** reported by Tuleshkov (1965) from the fruit tree plantations and vineyards on the hills above Stara Zagora City. This report may concern another species: *Oligia versicolor* (Borkhausen, 1792).
***Episema glaucina* (Esper, 1789):** reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City; loc. 11, 7.10.2020.
***Episema tersa* (Denis & Schiffermüller, 1775):** loc. 11, 7.10.2020.
***Tiliacea sulphurago* (Denis & Schiffermüller, 1775):** loc. 11, 7.10.2020.
***Cirrhia icteritia* (Hufnagel, 1766) (=fulvago sensu auct.):** reported by Tuleshkov (1965) from the hills above Stara Zagora City.
***Agrochola lychnidis* (Denis & Schiffermüller, 1775):** reported by Tuleshkov (1965) from Ayazmoto Hill in Stara Zagora City.
***Anchoscelis nitida* (Denis & , 1775):** loc. 11, 7.10.2020.
***Anchoscelis litura* (Linnaeus, 1758):** loc. 11, 7.10.2020, 5 males and 3 females, genitalia of males checked.
***Anchoscelis humilis* (Denis & , 1775):** reported by Tuleshkov (1965) from the hills above Stara Zagora City.
***Sunira circellaris* (Hufnagel, 1766):** loc. 11, 7.10.2020.
***Propenista laevis* (Hübner, 1803):** loc. 11, 7.10.2020.
***Conistra vaccinii* (Linnaeus, 1761):** loc. 11, 7.10.2020, 1 female, genitalia checked.
***Conistra rubiginosa* (Scopoli, 1763):** loc. 1, 16.3.2018.
***Conistra veronicae* (Hübner, 1813):** loc. 1, 6.3.2019.
***Lithophane ornitopus* (Hufnagel, 1766):** loc. 1, 8.3.2019.
***Xylena exsoleta* (Linnaeus, 1758):** loc 1, 12.2.2019.
***Cosmia trapezina* (Linnaeus, 1758):** loc. 11, 15.6.2019.
***Dycicla oo* (Linnaeus, 1758):** loc. 11, 15.6.2019.
***Atethmia centrago* (Haworth, 1809) (=xerampelina sensu auct.):** reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City.
***Mesogona acetosellae* (Denis & , 1775):** reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City; loc. 11, 7.10.2020.
***Ammoconia senex* (Geyer, 1828):** reported by Tuleshkov (1965) from Ayazmoto Hill in Stara Zagora City.
***Ammoconia caecimacula* ([Denis & Schiffermüller], 1775):** loc. 11, 7.10.2020.
***Aporophyla australis* (Boisduval, 1829):** loc. 11, 7.10.2020.
***Aporophyla canescens* (Duponchel, 1826):** loc. 11, 7.10.2020.
***Orthosia gothica* (Linnaeus, 1758):** loc. 1, 17.3.2018, 18.5.2019.
***Perigrapha rorida* (Frivaldszky, 1835):** loc. 4, 18-20.3.2018; loc. 1, 16.3.2019.
***Egira conspicillaris* (Linnaeus, 1758):** reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019, 5 males, genitalia with everted vesica checked, in glycerol in microvials.
***Egira tabori* Hreblay, 1994:** loc. 11, 5.5.2019, 1 male, genitalia with everted vesica checked, in glycerol in microvials.
***Tholera decimalis* (Poda, 1761):** reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City; loc. 11, 7.10.2020.
***Anarta trifolii* (Hufnagel, 1766):** reported by Tuleshkov (1965) from the hills north-east of Stara Zagora City; loc. 11, 5.5.2019; 15.6.2019.

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- Pachetra sagittigera* (Hufnagel, 1766)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019.
- Lacanobia w-latinum* (Hufnagel, 1766)** (= *Mamestra genistae* (Borkhausen, 1792)): reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort, near the river in gardens; loc. 11, 5.5.2019; 15.6.2019.
- Lacanobia thalassina* (Hufnagel, 1766)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.
- Mamestra oleracea* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.
- Hada plebeja* (Linnaeus, 1761)** (= *Mamestra dentina* (Denis & Schiffermüller, 1775)): reported by Tuleshkov (1965) from the hills above Stara Zagora City.
- Mamestra brassicae* (Linnaeus, 1758)**: reported for Stara Zagora City by Nedyalkov (1909) and Tuleshkov (1965).
- Hecatera dysodea* (Denis & Schiffermüller, 1775)**: loc. 1, 24.5.2018.
- Hecatera bicolorata* (Hufnagel, 1766)**: loc. 11, 5.5.2019.
- Hadena magnolii* (Boisduval, 1829)**: loc. 11, 5.5.2019; 15.6.2019.
- Hadena confusa* (Hufnagel, 1766)**: loc. 11, 5.5.2019.
- Hadena perplexa* (Denis & Schiffermüller, 1775)**: loc. 11, 5.5.2019.
- Hadena syriaca podolica* (Kremky, 1937)**: loc. 11, 15.6.2019, 1 male.
- Mythimna pallens* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from fruit tree plantation at Ayazmoto Hill in Stara Zagora City.
- Mythimna vitellina* (Hübner, 1808)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 5.5.2019.
- Mythimna unipuncta* (Haworth, 1809)**: loc. 11, 7.10.2020.
- Mythimna albipuncta* (Denis & , 1775)**: reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City; loc. 11, 5.5.2019, 7.10.2020.
- Mythimna l-album* (Linnaeus, 1767)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City; loc. 11, 7.10.2020.
- Leucania comma* (Linnaeus, 1761)**: loc. 1, 18.5.2019.
- Peridroma saucia* (Hübner, 1808)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.
- Dichagyris flavina* (Herrich-Schäffer, 1852)**: reported by Bocharov (1959) from Buzovgrad Village.
- Dychagyris nigrescens* (Höfner, 1888)**: loc. 11, 15.6.2019.
- Dychagyris forcipula* (Denis & , 1775)**: loc. 11, 15.6.2019.
- Euxoa temera* (Hübner, 1808)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.
- Euxoa aquilina* (Denis & , 1775)**: reported by Tuleshkov (1965) from Ayazmoto Hill in Stara Zagora City.
- Euxoa hastifera* (Donzel, 1847)**: reported by Tuleshkov (1965) from Ayazmoto Park in Stara Zagora City.
- Agrotis exclamationis* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort; loc. 11, 5.5.2019; 15.6.2019
- Agrotis segetum* (Denis & Schiffermüller, 1775)**: loc. 1, 13.5.2018, 3.7.2019, 9.7.2019, 29.8.2019, 17.9.2019; loc. 11, 5.5.2019, 7.10.2020. Also reported by Tuleshkov (1965) from Stara Zagora City.
- Agrotis clavis* (Hufnagel, 1766)** (= *corticea* (Denis & Schiffermüller, 1775)): reported by Tuleshkov (1965) from the hills above Stara Zagora City.
- Agrotis ipsilon* (Hufnagel, 1766)**: loc. 11, 15.6.2019.
- Axyليا putris* (Linnaeus, 1761)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.
- Ochropleura plecta* (Linnaeus, 1761)**: loc. 11, 5.5.2019.

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***Ochropleura leucogaster* (Freyer, 1831)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.

***Noctua pronuba* (Linnaeus, 1758)**: loc. 1, 05.6.2020; loc. 11, 7.10.2020. Reported by Tuleshkov (1965) from the hills north-east of Stara Zagora City.

***Noctua comes* Hübner, 1813**: loc. 11, 15.6.2019, 7.10.2020.

***Noctua interjecta* Hübner, [1803]**: loc. 11, 7.10.2020.

***Noctua tertia* von Mentzer, Moberg & Fibiger, 1991**: loc. 11, 7.10.2020.

***Epilecta linogrisea* (Denis & Schiffermüller, 1775)**: loc. 11, 7.10.2020.

***Xestia castanea* (Esper, 1798)**: reported by Tuleshkov (1965) from a fruit tree plantation at Ayazmoto Hill in Stara Zagora City.

***Xestia xanthographa* (Denis & Schiffermüller, 1775)**: loc. 11, 7.10.2020.

***Xestia cohaesa* (Herrich-Schäffer, 1849)**: loc. 11, 7.10.2020.

***Xestia c-nigrum* (Linnaeus, 1758)**: reported by Tuleshkov (1965) from Starozagorski Mineralni Bani Resort.

***Spaelotis ravida* (Denis & Schiffermüller, 1775)**: reported by Tuleshkov (1965) from Stara Zagora City.

Nolidae

Nolinae

***Nola chlamitulalis* (Hübner, 1813)**: loc 1, 3.9.2019

Chloephorinae

***Nycteola revayana* (Scopoli, 1772)**: reported by Tuleshkov (1965) from the hills above Stara Zagora City.



Figs 1, 2. *Mirificarma maculatella* (Hübner, 1796), males. Loc. 11, 15.6.2019. New record for the Bulgarian fauna.

MOTHS



Fig. 3. *Idaea dilutaria* (Hübner, 1799), male genitalia. Loc. 11, 15.6.2019, Gen. prep. 3./04.V.2020, S. Beshkov.



Fig. 4. *Gortyna moesiaca* Herrich-Schäffer, 1849, male. Loc. 11, 7.10.2020 (Scale = 1 cm).

MOTHS

References

- Aarvik, L., Bengtsson, B. E., Elven, H., Ivinskis, P., Jürivete, U., Karsholt, O., Mutanen, M. & Savenkov, N. (2017) Nordic-Baltic Checklist of Lepidoptera. *Norwegian Journal of Entomology*, Supplement 3: 1-236.
- Beshkov, S. (2000) An Annotated Systematic and Synonymic Check List of the Noctuidae of Bulgaria (Insecta: Lepidoptera: Noctuidae). *Neue Entomologische Nachrichten, Marktleuthen*, 49: 1-300.
- Bocharov, S. (1959) Neue und seltene Schmetterlingsarten aus der Fauna bulgariens. *Izvestia na Zoologicheskia Institut, Sofia*, 8: 53-76 (In Bulgarian, German Summary).
- Buresch, I. & Tuleschkow, K. (1936) Die horizontale Verbreitung der Schmetterlinge (Lepidoptera) in Bulgarien. 04. Geometriformes. *Izvestia na tsarskite prirodonauchni Instituti, Sofia*, 9: 167-240 (In Bulgarian, German Summary).
- Hausmann, A. & Sihvonen, P. (2019) Revised, annotated systematic checklist of the Geometridae of Europe and adjacent areas. In: Hausmann, A., Shivonen, P., Rajaei, H. & Skou, P. (Eds.), *The Geometrid Moths of Europe* 6, Brill, Leiden, pp. 1-906.
- Nedyalkov, N. (1909) Nashata entomologichna fauna. *Archive of MNP*, 1(3): 83-135 (In Bulgarian).
- Tuleshkov, K. (1965) Peperudi (Lepidoptera) ot Trakia. *Fauna na Trakia (Fauna of Thracia)*, BAS, Sofia, 183-228 (In Bulgarian).
- Yela, J. L., Zilli, A., Varga, Z., Ronkay, G. & Ronkay, L., (2011) Checklist of the quadrifid Noctuoidea of Europe. In: Witt, T. J. & Ronkay, L. (Eds.), *Noctuidae Europaeae, Volume 13: Lymantriinae and Arctiinae*. Entomological Press, Sorø, pp. 1-448.