

Geometridae of Turkey 3. A provisional list of the Geometridae of Turkey (Lepidoptera)

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Abstract. As a basis for further investigations, a provisional list of all Geometridae species thus far known from Turkey is given.

Samenvatting. Geometridae uit Turkije 3. Voorlopige lijst van de Geometridae uit Turkije (Lepidoptera)
Als basis voor verder onderzoek wordt een voorlopige lijst van alle tot op heden gekende Geometridae uit Turkije gegeven.

Résumé. Geometridae de la Turquie 3. Liste provisoire des Geometridae de la Turquie (Lepidoptera)
Comme base pour prochaines investigations, une liste provisoire des Geometridae de la Turquie connu jusqu'à présent, est donné.

Key words : Provisional list - Geometridae - Turkey

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Introduction

Since I started the study of the Geometridae of Turkey a few years ago, I also gathered as much information as possible on the subject. To get an idea of the species which could be found in Turkey, I studied all known literature mentioning Geometridae species from that country. This consulted literature is indicated in the reference list. The result is the list of species which follows. Species not mentioned in the consulted literature, but recorded by me, are also included. These species are preceded by an asterisk (*). As these species were thus far never mentioned from Turkey, full information about them will be given in the next part of this series.

In the consulted literature 418 Geometrid species are mentioned for Turkey. Until now I found 50 species not mentioned before, which brings the total of the hitherto known Geometridae species from Turkey to 468. I am convinced that many new species will be discovered in the future. Therefore I would like to ask your attention for my request for collaboration at the end of this paper. The nomenclature and system of the list are based on J.Viidalopp's "The Geometridae of the U.S.S.R." (1976-1979).

Part 2 see *Phegea* 20 (4): 131-135.

Provisional Check-List of Geometridae species from Turkey

Archiearinae

Archiearis notha Hübner

Alsophilinae

Orthostixtis cribraria Hübner

Orthostixtis calcularia Lederer

Myinodes interpunctaria Herrich-Schäffer

Geometrinae

Pseudoterpna pruinata Hufnagel

Pseudoterpna coronillaria Hübner

Aplasta ononaria Fuessly

**Geometra papilionaria* Linnaeus

Comibaena pustulata Hufnagel

Comibaena neriaria Herrich-Schäffer

Hierochtonia pulverata Warren

Thetidia smaragdaria Fabricius

Thetidia vulgaris Guenee

Hemitheia aestivaria Hübner

Chlorissa viridata Linnaeus

Chlorissa cloraria Hübner

Chlorissa pulmentaria

**Chlorissa pretiosaria* Staudinger

**Chlorissa asphaleia* Wiltshire

Microloxia herbaria Hübner

Thalera fimbrialis Scopoli

Hemistola immaculata Thunberg

Jodis lactaearia Linnaeus

Eucrostes indigenata de Villers

Xenochlorodes beryllaria Mann

Sterrhinae

Idaea determinata Staudinger

Idaea mediaria Hübner

Idaea rufaria Hübner

Idaea consanguinaria Lederer

Idaea sericeata Hübner

Idaea taurica Bang-Haas

Idaea ossiculata Lederer

Idaea ochrata Scopoli

Idaea serpentata Hufnagel

Idaea aureolaria Denis & Schiffermüller

Idaea flaveolaria Hübner

Idaea muricata Hufnagel

Idaea intermedia Staudinger

Idaea rusticata Denis & Schiffermüller

Idaea filicata Hübner

Idaea laevigata Scopoli

Idaea extarsaria Herrich-Schäffer

Idaea monilata Denis & Schiffermüller

Idaea circuitaria Hübner

Idaea sylvestraria Hübner

Idaea textaria Lederer

Idaea elongaria Rambur

Idaea troglodytaria Herrich-Schäffer

**Idaea biselata* Hufnagel

Idaea inquinata Scopoli

Idaea dilutaria Hübner

Idaea fuscovenosa Goeze

Idaea humiliata Hufnagel

Idaea politata Hübner

Idaea longaria Herrich-Schäffer

Idaea consolidata Lederer

Idaea consociata Staudinger

Idaea seriata Schrank

**Idaea fathmaria* Oberthür

Idaea dimidiata Hufnagel

Idaea camparia Herrich-Schäffer

Idaea subsericeata Haworth

Idaea pallidata Denis & Schiffermüller

Idaea cervantaria Milliere

Idaea trigeminata Haworth

Idaea gracilipennis Warren

Idaea ruficostata Zeller

Idaea nitidata Herrich-Schäffer

Idaea ostrinaria Püngeler

Idaea metohiensis Rambur

Idaea aversata Linnaeus

Idaea degeneraria Hübner

Idaea straminata Borkhausen

Idaea deversaria Herrich-Schäffer

Idaea roseofasciata Christoph

Idaea osthelderi Wehrli

Cleta ramosaria Villers

Cinglis humifusaria Eversmann

Scopula immorata Linnaeus

**Scopula tessellaria* Boisduval

Scopula nigropunctata Hübner

Scopula ornata Scopoli

Scopula submutata Treitschke

**Scopula orientalis* Alpheraky

Scopula decorata Denis & Schiffermüller

Scopula rubiginata Hufnagel

Scopula turbidaria Hufnagel

Scopula marginepunctata Goeze

Scopula incanata Linnaeus

Scopula luridata Zeller

Scopula imitaria Hübner

Scopula immutata Linnaeus

Scopula flaccidaria Zeller

Scopula subpunctaria Herrich-Schäffer

Scopula emutaria Hübner

Scopula beckeraria Lederer
Scopula ochroleucata Herrich-Schäffer
Scopula immistaria Herrich-Schäffer
Glossotrophia confinaria Herrich-Schäffer
Glossotrophia diffinaria Prout
Glossotrophia asellaria Herrich-Schäffer
Problepsis ocellata Frivaldszky
Rhodostrophia jacularia Hübner
Rhodostrophia badiaria Freyer
Rhodostrophia vibicaria Linnaeus
 **Rhodostrophia sieversi* Christoph
Rhodostrophia tabidaria Zeller
Rhodostrophia calabra Petagna
Rhodostrophia auctata Staudinger
Cyclophora albiocellaria Hübner
Cyclophora annulata Schulze
Cyclophora puppillaria Hübner
Cyclophora ruficiliaria Herrich-Schäffer
Cyclophora quercimontaria Bastelberger
Cyclophora porata Fabricius
Cyclophora punctaria Linnaeus
Cyclophora supunctaria Zeller
Cyclophora trilinearia Borkhausen
Timandra griseata Petersen
Rhodometra sacraria Linnaeus
Casilda anthophilaria Hübner

Larentiinae

Lythria purpuraria Linnaeus
Lythria purpurata Linnaeus
Yenusia blomeri Curtis
Euhoeca nebulata Scopoli
Asthene albulata Hufnagel
Minoa murinata Scopoli
Operophtera fagata Scharfenberg
Larentia clavaria Haworth
Entephria caesiata Denis & Schiffermüller
 **Entephria ignorata* Staudinger
Anticlea deriviata Denis & Schiffermüller
Pelurga comitata Linnaeus
 **Xanthorhoe munitata* Hübner
Xanthorhoe fluctuata Linnaeus
Xanthorhoe montanata Denis & Schiffermüller
Xanthorhoe rectifasciaria Lederer
Xanthorhoe ferrugata Clerck
Xanthorhoe designata Hufnagel
Orthonama lignata Hübner
Orthonama obstipata Fabricius
Costaconvexa polygrammata Borkhausen
Campptogramma bilineata Linnaeus
Scotopteryx coarctaria Denis & Schiffermüller
Scotopteryx mucronata Scopoli (1)
Scotopteryx luridata Hufnagel
Scotopteryx langi Christoph

Scotopteryx chenopodiata Linnaeus
 **Scotopteryx moeniata* Scopoli
Scotopteryx vicinaria Duponchel
Scotopteryx bipunctaria Denis & Schiffermüller
Scotopteryx octodurensis Favre
 **Scotopteryx alpherakii* Erschov
Epirrhoe tristata Linnaeus
 **Epirrhoe molluginata* Hübner
Epirrhoe galiata Denis & Schiffermüller
Epirrhoe rivata Hübner
 **Epirrhoe alternata* Müller
Catarhoe cupreata Herrich-Schäffer
Catarhoe putridaria Herrich-Schäffer
Catarhoe permixtaria Herrich-Schäffer
Catarhoe cuculata Hufnagel
Catarhoe rubidata Denis & Schiffermüller
Protorhoe renodata Püngeler
Protorhoe unicata Guenee
Horisme vitalbata Denis & Schiffermüller
Horisme corticata Treitschke
Horisme tersata Denis & Schiffermüller
Melanthia procellata Denis & Schiffermüller
Pareulyphe berberata Denis & Schiffermüller
Rheumaptera cervicalis Scopoli
Rheumaptera montivagata Duponchel
Rheumaptera undulata Linnaeus
Triphosia sabaudiata Duponchel
Triphosia dubitata Linnaeus
 **Philereme vetulata* Denis & Schiffermüller
Philereme transversata Hufnagel
 **Hydriomena furcata* Thunberg
 **Hydriomena coerulea* Fabricius
Cataclysmes riguata Hübner
Mesotype virgata Hufnagel
Euphyia sintenisi Staudinger
Euphyia adumbraria Herrich-Schäffer (?)
Euphyia frustata Treitschke
 **Euphyia picata* Hübner
Perizoma alchemillata Linnaeus
 **Perizoma parahydrata* Alberti
Perizoma gigas Wiltshire
Perizoma blandiata Denis & Schiffermüller
 **Perizoma albulata* Denis & Schiffermüller
Perizoma flavofasciata Thunberg
 **Stannodes depeculata* Lederer
 **Trichodezia haberhaueri* Lederer
Colostygia schneideriana Lederer
Cosmorhoe ocellata Linnaeus
Nebula salicata Hübner
Nebula apicata Staudinger
Nebula approximata Staudinger
Nebula senectaria Herrich-Schäffer
Nebula ludificata Staudinger

Nebula reclamata Prout
Eustroma mardinata Staudinger
Eulithis roessleraria Fabricius
Chloroclysta siterata Hufnagel
Chloroclysta miata Linnaeus
**Chloroclysta truncata* Tengström
Cidaria fulvata Förster
Plemyria rubiginata Denis & Schiffermüller
**Thera obeliscata* Hübner
Thera variata Denis & Schiffermüller
**Thera albonigrata* Höfer
**Thera cognata* Thunberg
Thera firmata Hübner
Thera cupressata Geyer
Eupithecia nigritaria Staudinger
Eupithecia haworthiata Doubleday
Eupithecia plumbeolata Haworth
Eupithecia cucullaria Rebel
Eupithecia spissilineata Mentzer
Eupithecia linariata Denis & Schiffermüller
Eupithecia laquaearia Herrich-Schäffer
Eupithecia pulchellata Stephens
Eupithecia limbata Staudinger
Eupithecia brunneata Staudinger
Eupithecia irritaria Staudinger
Eupithecia irriguata Hübner
Eupithecia marasa Wehrli
Eupithecia staudingeri Bohatsch
Eupithecia wehrlii Wagner
**Eupithecia mesogrammata* Dietze
Eupithecia insigniata Hübner
Eupithecia undata Freyer
Eupithecia inconspicua Bohatsch
Eupithecia reisserata Pinker
Eupithecia variostrigata Alpheraky
Eupithecia bastelbergi Dietze
Eupithecia venosata Fabricius
Eupithecia schiefereri Bohatsch
Eupithecia silenicolata Mabilie
Eupithecia alliararia Staudinger
Eupithecia pinkeri Mironov
Eupithecia achyrdaghica Wehrli
Eupithecia terrenata Dietze
Eupithecia centaureata Denis & Schiffermüller
Eupithecia scalptata Christoph
Eupithecia separata Staudinger
Eupithecia syriacata Staudinger
Eupithecia guenata Mabilie
Eupithecia gratiosata Herrich-Schäffer
Eupithecia breviculata Donzel
Eupithecia extrema Fabricius
Eupithecia pfeifferi Wehrli
Eupithecia scopariata Rambur
Eupithecia cerussaria Lederer

Eupithecia arenbergeri Pinker
Eupithecia assimilata Doubleday
Eupithecia vulgata Haworth
Eupithecia denotata Hübner
**Eupithecia subfuscata* Haworth
Eupithecia pseudocastigata Pinker
Eupithecia buxata Pinker
**Eupithecia ochrovittata* Christoph
**Eupithecia icterata* de Villers
Eupithecia succenturiata Linnaeus
Eupithecia kurzi Pinker
Eupithecia denticulata Treitschke
Eupithecia subumbrata Denis & Schiffermüller
Eupithecia calligraphata Wegner
Eupithecia semigraphata Bruand
Eupithecia millefoliata Rösler
Eupithecia simplicata Haworth
Eupithecia marginata Staudinger
Eupithecia distinctaria Herrich-Schäffer
Eupithecia amasina Bohatsch
Eupithecia gemellata Herrich-Schäffer
Eupithecia graphata Treitschke
Eupithecia indigata Hübner
Eupithecia subsequaria Herrich-Schäffer
Eupithecia furcata Staudinger
Eupithecia extensaria Freyer
Eupithecia innotata Hufnagel
Eupithecia unedonata Mabilie
Eupithecia novata Dietze
Eupithecia abbreviata Stephens
Eupithecia dodoneata Guenee
Eupithecia ultimaria Boisduval
Eupithecia oxycedrata Rambur
Eupithecia adscriptaria Staudinger
Eupithecia tuxinata Bohatsch
Eupithecia tantillaria Boisduval
Gymnoscelis rufifasciata Haworth
Gymnoscelis dearmata Dietze
Chlorochystis v-ata Haworth
Chlorochystis chloerata Mabilie
Odezia atrata Linnaeus
**Schistostege nubiliaria* Hübner
Lithostege farinata Hufnagel
Lithostege infuscata Eversmann
Lithostege palaestinensis Amsel
Lithostege griseata Denis & Schiffermüller
Lithostege wizenmanni Standfuss
Gypsochroa renitidata Hübner
Chesias sureyata Rebel
Chesias rufata Fabricius
Chesias korbi Bohatsch
Aplocera lythoxylata Hübner
**Aplocera guneyi* Riemis
Aplocera mundata Staudinger

**Aplocera dervenaria* von Mentzer
Aplocera mundulata Guenee
Aplocera musculata Staudinger
Aplocera columbata von Mentzer
Aplocera annexata Freyer
Aplocera uniformata Urbahn
Aplocera fraternata Herrich-Schäffer
Aplocera plagiata Linnaeus
Aplocera efformata Guenee
Aplocera obsitaria Lederer
Aplocera numidaria Herrich-Schäffer
Oubolophora externata Herrich-Schäffer
Oubolophora internata Püngeler
Trichopteryx sabinata Geyer
Lobophora halterata Hufnagel

Boarmiinae

**Calospilis pantaria* Linnaeus
 **Lomaspilis marginata* Linnaeus
 **Lomaspilis opis* Butler
Ligdia adustata Denis & Schiffermüller
Ligdia lassulata Rogenhofer
Lomographa trimacula Villers
Lomographa dilectaria Hübner
Lomographa dalmataria Guenee
Semiothisa aestimaria Hübner
Semiothisa notata Linnaeus
Semiothisa alternata Denis & Schiffermüller
Semiothisa signaria Hübner
Semiothisa liturata Clerck
Semiothisa clathrata Linnaeus
Semiothisa glarearia Denis & Schiffermüller
 **Semiothisa rippertaria* Duponchel
Narraga fasciolaria Hufnagel
Narraga cappadocica Herbulot
Phyllometra culminaria Eversmann
Itame vincularia Hübner
 **Itame wauaria* Linnaeus
Tephрина arenacearia Denis & Schiffermüller
Tephрина murinaria Denis & Schiffermüller
Tephрина hopfferaria Staudinger
Tephрина pumicaria Lederer
Gnopharmia colchidaria Lederer
 **Gnopharmia rubraria* Staudinger
Rhoptria asperaria Hübner
Rhoptria dolosaria Herrich-Schäffer
Rhoptria mardinata Staudinger
Rhoptria poggearia Lederer
Aleucis distinctata Herrich-Schäffer
Aleucis mimetes Wehrli
Bapta bimaculata Fabricius
Zamacra flabellaria Heeger
Phaselia serrularia Eversmann
Nychiodes amygdalaria Herrich-Schäffer

Nychiodes rayatica Wiltshire
Nychiodes obscuraria Villers
Nychiodes waltheri Wagner
Nychiodes divergaria Staudinger
Nychiodes variabilis Brandt
Hypoxystis pluviana Fabricius
Perconia strigillaria Hübner
Siona lineata Scopoli
Dyscia sultanica Wehrli
Dyscia lentiscaria Donzel
Dyscia malatyana Wehrli
Dyscia sicanaria Oberthur
Hemerphila abruptaria Thunberg
Synopsia sociaria Hübner
 **Aspilates gilvaria* Denis & Schiffermüller
Pfeifferula revocaria Staudinger
Semiaspilates ochrearia Rossi
Angerona prunaria Linnaeus
Ctenognophos stevenaria Boisduval
Odontognophos zacharia Staudinger
 **Gnophos obfuscata* Denis & Schiffermüller
Gnophos sartata Treitschke
 **Gnophos pseudosnelleni* Rjabov
Gnophos obscurata Denis & Schiffermüller
Gnophos certhiatus Rebel et Zerny
Gnophos onustaria Herrich-Schäffer
Gnophos zeitunaria Staudinger
 **Gnophos ciscaucasica* Rjabov
Gnophos glaucinaria Hübner
Gnophos vanensis Wehrli
Gnophos pfeifferi Wehrli
Gnophos variegatus Duponchel
Gnophos mucidaria Hübner
Gnophos nannodes Wehrli
Gnophos mutilata Staudinger
 **Gnophos anthina* Wehrli
Stueningia wolffi Hausmann
Ematurga atomaria Linnaeus
Bupalus piniarius Linnaeus
Tephronia sepiaria Hufnagel
Mannia oppositaria Mann
Cleorodes lichenaria Hufnagel
Peribatodes rhomboidaria Denis & Schiffermüller
Peribatodes perversaria Boisduval
Peribatodes umbraria Hübner
Peribatodes secundaria Esper
Peribatodes correptaria Zeller
Peribatodes manuelaria Herrich-Schäffer
Selidosema plumaria Denis & Schiffermüller
 **Boarmia roboraria* Denis & Schiffermüller
Boarmia viertli Bohatsch
Serraca punctinalis Scopoli
Ascotis selenaria Denis & Schiffermüller

<i>Cleora cinctaria</i> Denis & Schiffermüller	<i>Campaea margaritata</i> Linnaeus
<i>Aleis repandata</i> Linnaeus	<i>Campaea honoraria</i> Denis & Schiffermüller
<i>Ectropis bistortata</i> Goeze	<i>Crocallis tusciaria</i> Borkhausen
<i>Ectropis consonaria</i> Hübner	<i>Crocallis elinguaris</i> Linnaeus
<i>Biston stratarius</i> Hufnagel	<i>Crocallis inexpectata</i> Warnnecke
<i>Biston betularia</i> Linnaeus	<i>Eilicrinia cordiaria</i> Hübner
<i>Biston achyra</i> Wehrli	<i>Eilicrinia subcordiaria</i> Herrich-Schäffer
<i>Lycia hirtaria</i> Clerck	<i>Eilicrinia trinotata</i> Metzner
<i>Lycia pomonaria</i> Hübner	<i>Apeira syringaria</i> Linnaeus
<i>Lycia zonaria</i> Denis & Schiffermüller	<i>Opistograptis luteolata</i> Linnaeus
<i>Agriopsis leucophaearia</i> Denis & Schiffermüller	<i>Ourapteryx sambucaria</i> Linnaeus
<i>Agriopsis bajaria</i> Denis & Schiffermüller	* <i>Ourapteryx persica</i> Ménétrics
<i>Agriopsis marginaria</i> Borkhausen	<i>Ourapteryx malatyensis</i> Wehrli
<i>Agriopsis ankeraria</i> Staudinger	<i>Theria rupicaprararia</i> Denis & Schiffermüller
<i>Amorphogyna necessaria</i> Zeller	<i>Pachycremia hippocastanaria</i> Hübner
<i>Apocheima hispidaria</i> Denis & Schiffermüller	<i>Anthyperythra legataria</i> Herrich-Schäffer
<i>Erannis defoliaria</i> Clerck	<i>Asovia maeoticaria</i> Alpheraky
<i>Erannis declinans</i> Staudinger	<i>Therapis flavicaria</i> Denis & Schiffermüller
<i>Ennomis quercinaria</i> Hufnagel	<i>Pseudopanthera macularia</i> Linnaeus
<i>Ennomis effractaria</i> Freyer	<i>Pseudopanthera syriacata</i> Guenée
* <i>Ennomis erosaria</i> Denis & Schiffermüller	<i>Heterolocha laminaria</i> Herrich-Schäffer
* <i>Selenia dentaria</i> Fabricius	* <i>Epione parallelara</i> Denis & Schiffermüller
* <i>Selenia lunularia</i> Hübner	<i>Eumera regina</i> Staudinger
<i>Pterophora chlorosata</i> Scopoli	<i>Eumera turcosyriaca</i> Wehrli
<i>Pterophora narbonea</i> Linnaeus	<i>Eumera hoeferi</i> Wehrli
<i>Pungeleria capreolaria</i> Denis & Schiffermüller	<i>Dasycorsa modesta</i> Staudinger
<i>Hylaea fasciaria</i> Linnaeus	<i>Colotis pennaria</i> Linnaeus
<i>Hylaea cedricola</i> Wehrli	

Notes

(¹) doubtful, needs confirmation.

(²) doubtful, mentioned from Asia Minor by Culot 1917-1920.

Acknowledgments

I would like to express my thanks to the members of the Workgroup for Greek-Turkish butterflies, and especially to W. De Prins, Antwerpen, and Harry Van Oorschot, Amsterdam. During their expeditions, they also paid attention to Geometridae, and collected whenever possible with small moth-traps. Thanks to their attribution a lot of useful information has been gathered, and this way they collected also several species which are new for the Turkish Geometridae fauna.

Request for co-operation

As mentioned before, this provisional list has to be regarded as a base for further investigations. It is my intention to give within a few years a more detailed distribution list of the Turkish Geometridae. Therefore I would like to ask for co-operation on the following subjects :

-If you know of any literature, not mentioned in this paper, mentioning

new Geometridae species for Turkey, please inform me.

-If you collected Geometridae species in Turkey, I am very interested in receiving information about them.

-If you have problems with the determination of Turkish Geometridae species, I'll always be at your service with all possible help and information.

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