

The Geometridae of the Cape Verde islands

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Joint project of the

[Zoologische Staatssammlung München](#) (Dr. Axel Hausmann) and the

[Barcode of Life Data Systems](#) / [Global Campaign Geometridae](#) (Dr. Paul Hebert, Canada)

The whole list actually contains 18 geometrid species, cf Baez & Garcia (2005: Lista preliminar de especies silvestres de Cabo Verde - Lepidoptera), and Hausmann (2009)

“BC” = barcoded specimens (COI 5’) with ID-number

[LINK to Neighbor Joining Tree](#), Kimura 2 Parameter, BOLD database, provided by the courtesy of Paul Hebert, CCDB, Canada

[pdf of version 1 \(November 10, 2008\)](#)



1. Fogo, Chã das Caldeiras, 1650 – 1700 m: View from the edge of the old Caldeira (Bordeira) at the two villages (front Bangaeira, rear Portela), where collecting was performed. Sparse vegetation is underlying strong antropogenous influence through agricultural land management (photo: Eyjolf Aistleitner; [highres](#)).





2. Brava, Sorno. Bay at the northern side of the island. The small water course (Ribeira) is with water almost all the year through. Collecting site at approx. 40-50 m above sea-level (photo: Eyjolf Aistleitner; [highres](#)).



3. Brava, Santana, 450 – 500 m: Collecting site at the periphery of the village Nova Sintra, where the mercury vapour light source covers cultivated areas such as rocky slopes, the latter at the right hand outside the picture (photo: Eyjolf Aistleitner; [highres](#)).

Systematic account

Geometrinae

Pseudoterpnini

Pingasa lahayei (Oberthür, 1887)

Recorded in Baez & Garcia (2005: 87), but not yet collected by the second author

Comibaenini

Comibaena leucospilata (Walker, 1863)



Male genitalia - aedeagus -- female genitalia

BC ZSM Lep 11559, [11529](#), 11534

Ilha da Brava

Hemistolini

Thalassodes quadraria (Guenée, 1858)





Male genitalia - aedeagus -- female genitalia

BC ZSM Lep 11546, 11550, 11540, 11544, 11549, 11584, [11564](#), 11538, 11572, 11542

Ilha da Brava, Ilha do Fogo

***Prasinocyma germinaria* (Guenée, 1858)**

Recorded in Baez & Garcia (2005: 87), but not yet collected by the second author. Occurrence of this Ethiopian species on Cape Verde doubtful.

Hemitheini

***Phaiogramma faustinata* (Millière, 1868)**

***Phaiogramma faustinata vermiculata* (Warren, 1897)**



Male genitalia - aedeagus -- female genitalia

BC ZSM Lep [11571](#), 11580, 11620, 11548, 11567, 11537

Ilha da Brava, Ilha do Fogo

Comostolini

***Cosmostolopsis stillata* (Felder & Rogenhofer, 1875)**

Recorded in Baez & Garcia (2005: 87), but not yet collected by the second author

***Eucrostes disparata* Walker, 1861**

Recorded in Baez & Garcia (2005: 87), but not yet collected by the second author

Microloxiini

***Microloxia ruficornis* Warren, 1897**

Recorded in Herbulot (1957), and Baez & Garcia (2005: 87), but not yet collected by the second author, literature data possibly referring to the following species

***Microloxia aistleitneri* Hausmann, 2009**



[Male genitalia](#) - [aedeagus](#) -- [female genitalia](#)

BC ZSM Lep [11601](#), 11600, [11579 \(holotype\)](#)

Ilha do Fogo

Sterrhinae

Scopulini

***Scopula panelusi* Herbulot, 1957**

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***Scopula panelusi panelusi* Herbulot, 1957**



Male genitalia - aedeagus -- female genitalia

BC ZSM Lep 11616, [11604](#), 11619

Nominate subspecies recorded on Antao (locus typicus), Vicente (new data), reputedly "Fogo" (Baez & Garcia 2005: 87) and 'Santiago' (erroneous data, coll. Herbulot).

***Scopula paneliusi subirrorata* Herbulot, 1957**

Male genitalia - aedeagus -- female genitalia

BC ZSM Lep 11581, 11586, 11545, 11560, 11535, 11574, 11553, 11527, 11587, [11582](#)

Subspecies *subirrorata* recorded on Brava (locus typicus), Nicolau (Herbulot 1957; Baez & Garcia 2005: 87), reputedly also Vicente (Herbulot 1957), the last possibly referring to nominate subspecies. New data suggesting both Brava and Fogo populations to belong here

Ilha da Brava, Ilha do Fogo

***Scopula minorata* (Boisduval, 1833)**

Male genitalia - aedeagus -- female genitalia

BC ZSM Lep [11561](#), 11566, 11615, 11570, 11569, 11528, 11618, 11562, 11607

Ilha da Brava

Timandrini***Traminda vividaria* (Walker, 1861)**

Recorded in Baez & Garcia (2005: 87), but not yet collected by the second author

Larentiinae**Xanthorhoini*****Nycterosea obstipata* (Fabricius, 1794)**

Recorded in Baez & Garcia (2005: 87), but not yet collected by the second author

Eupitheciini***Pasiphila derasata* (Bastelberger, 1905)**



Male genitalia - aedeagus -- female genitalia

BC ZSM Lep [11551](#), 11556, 11536, 11541, 11606, 11605, 11555, 11585, 11565, 11554, 11608, 11617, 11532, 11602, 11547

Ilha da Brava

***Gymnoscelis lindbergi* Herbulot, 1957**



Male genitalia - aedeagus - sternum A8 -- female genitalia

BC ZSM Lep 11531, 11596, [11533](#), 11593, 11589, 11614, 11592, 11588, 11539, 11597 --- 11573 (the last possibly different)

Ilha do Fogo, Ilha da Brava (1 specimen: 11614)

***Gymnoscelis daniloi* Hausmann, 2009**



Male genitalia - aedeagus - sternum A8 -- female genitalia

BC ZSM Lep 11591, [11576](#), [11575 \(holotype\)](#), 11530, 11590, 11595, 11599, 11594, 11598, 11603, 11583

Ilha do Fogo

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Ennominae

Macariini

Isturgia pulinda (Walker, 1860)

Isturgia pulinda deerraria Walker, 1861



Male genitalia - aedeagus -- female genitalia

BC ZSM Lep 11611, 11610, [11609](#), 11563, 11568, 11543, 11578, 11613, 11577, 11552, 11612

Ilha da Brava, Ilha do Fogo

***Chiasmia sudanata* (Warren & Rothschild, 1905)**

Recorded in Herbulot (1957), and Baez & Garcia (2005: 87), but not yet collected by the second author

BOLD TaxonID Tree

Project : BOLD Search[NO CODE]
Date : 14-October-2008
Data Type : Nucleotide
Distance Model : Kimura 2 Parameter
Codon Positions : 1st, 2nd, 3rd
Labels : SampleID,
Colorization :

Sequence Count : 90
Species count : 9
Genus count : 8
Family count : 1
Unidentified : 3

