

MOTHS OF AFRICA

Systematic and Illustrated Catalogue of the Heterocera (Lepidoptera) of Africa

Edited by

Hermann H. HACKER

The series MOTHS OF AFRICA consists of an inventory of the Heterocera of Continental Africa, from the southern part of the Mediterranean to the Cape, and Madagascar and its adjacent islands.

The books are the result of broad-based studies of museum material and all available public and private collections over the last decades. As far as possible, specific identification is based on the study and evaluation of the type specimens. Most species are illustrated in colour, together with male and female genitalia, and important information is given to provide a strong foundation for accurate determination.

Volume 1 February 2019 **Biogeography**
Erebidae, subfamily Boletobiinae

ISBN: 978-3-9820357-0-3

Volume 2 January 2021 **Evolution of diversity of the African flora and fauna.**
Erebidae, subfamilies Rivulinae, Hypeninae, Herminiinae, and Hypenodinae

ISBN: 978-3-9820357-2-7

Volume 3 September 2022 **Noctuidae, subfamily Acontiinae**
(including Aediini BECK, 1960, based on traditional treatment)

ISBN: 978-3-9820357-3-4

Volume 4 30th June 2026 **Noctuidae, subfamily Hadeninae**

ISBN: 978-3-00-085915-1

Volume 5 10th April 2026 **Geometridae, genus *Prasinocyma* WARREN, 1897**

ISBN: 978-3-00-085916-8

Subsequent volumes will be written by dedicated specialists for all taxonomic groups covered in the series.

Editor of the series "Moths of Africa": Hermann H. HACKER

Published, sold, and distributed by ESPERIANA Verlag, Jahnstraße 6a, 96231 Bad Staffelstein, Germany

e-mail: hermann-heinrich.hacker@t-online.de

Internet: www.esperiana.net

ISBN: 978-3-00-085915-1

Date of publication: 30th June 2026

© Copyright 2026 by ESPERIANA Verlag, Bad Staffelstein, Germany

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher.

This publication should be cited as: Hermann H. HACKER & Alberto ZILLI: Subfamily Hadeninae GUENÉE, 1837 (Noctuidae) - In H. H. HACKER (ed.): MOTHS OF AFRICA. Systematic and illustrated Catalogue of the Heterocera (Lepidoptera) of Africa, volume 4: 1-929. Bad Staffelstein.

MOTHS OF AFRICA

Systematic and Illustrated Catalogue of the Heterocera (Lepidoptera) of Africa

Volume 4

Subfamily Hadeninae GUENÉE, 1837 (Noctuidae)

by

Hermann H. HACKER¹ and Alberto ZILLI²

with contribution by Ralf FIEBIG³, Albert LEGRAIN⁴, Gyula M. LÁSZLÓ⁵, Hans-Peter SCHREIER⁶
and Dirk STADIE⁷

¹ Hermann H. HACKER, Jahnstraße 6a, 96231 Bad Staffelstein, Deutschland. E-Mail: hermann-heinrich.hacker@t-online.de

² Alberto Zilli, Honorary Research Affiliate, Natural History Museum (London), Via Merulana 61/A, 00185 Roma, Italy.
E-Mail: alberto.zilli@hushmail.com

³ Ralf FIEBIG, Nordstraße 30, 06571 Roßleben-Wiehe, Deutschland. E-Mail: ralflepido@web.de

⁴ Albert LEGRAIN, Quai du Halage 10, 4681 Hermalle-sous-Argenteau, Belgique. E-Mail: legrain@lepido.net

⁵ Gyula M. LÁSZLÓ, 12 Rainbow Street, HR6 8DQ, United Kingdom. E-Mail: gyula.m.laszlo@gmail.com

⁶ Hans-Peter SCHREIER, Schulstraße 7b, 96129 Strullendorf Geisfeld, Deutschland. E-Mail: hpschreier@t-online.de

⁷ Dirk STADIE, Luisenstraße 22, 06295 Lutherstadt Eisleben, Deutschland. E-Mail: Dirk.Stadie@t-online.de

Corresponding author, e-mail: hermann-heinrich.hacker@t-online.de

Abstract

The subfamily Hadeninae is traditionally characterised by its trifold neuration of the hind wing combined with the hairy clothing of the eyes, and forms an extremely natural and well-marked group of species, based on the Hampsonian system and the treatment of the subfamily by HAMPSON (1905). Currently, numerous molecular studies have shown that many genera and tribes of the former Cuculliinae are included in the Hadeninae. Generally, within the traditional subfamilies Hadeninae, Noctuinae, Cuculliinae, and Xyleninae, morphological characteristics are few and often unreliable and inconsistent. On the other hand, evaluating molecular data is very complex and still incomplete. In this treatment of the African Hadeninae, we have opted to follow the preliminary arrangement proposed by FIEBIGER & LAFONTAINE (2005), who reinstated the subfamily in its traditional usage (Hadeninae *sensu stricto*) as a probably monophyletic group including the six traditional tribes.

In the present volume, 535 African species of the subfamily Hadeninae are described and figured. For each species, a diagnosis and the geographical range are given, and when known, details of habitat preference and biology. All species are presented with their full name and references to the original description, with fully referenced synonyms. Special emphasis is given to descriptions and coloured illustrations, and to figures of genitalia features of both sexes, which were selected from more than 4.000 dissections. Male and female genitalia of nearly all species are illustrated, and distribution maps are provided for each species.

All species are arranged in biogeographical categories according to the definitions of those units in the first volume of the series.

DNA sequencing was performed for a substantial portion of the species. The handling of sequence divergences in the barcode region follows RATNASINGHAM & HERBERT (2007) using the Kimura 2 Parameter model, employing the analytical tools in BOLD (cf. HAUSMANN, 2011). The results of DNA sequencing are presented in several tables, along with Neighbour-joining trees. All sequence records, trace files, and images are available and accessible in the Barcode of Life Data System (RATNASINGHAM & HERBERT 2007). Inevitably, in this volume, DNA sequencing takes second place to more traditional taxonomic tools, such as morphological analysis, study of male and female genitalia, and biogeographical assessment.

The present taxonomic revision of the African Hadeninae constitutes a first summary of the situation across the African continent. It includes descriptions of 5 genera, 3 subgenera, 138 species, and 10 subspecies new to science; for the taxonomic summary, cf. below. However, in many cases, the final evaluation of taxa and their distribution remains incomplete; this extensive task is deferred to future studies. In strong contrast to the slow pace of biodiversity assessment and description, our planet is currently experiencing rapid and severe biodiversity loss - often referred to as the "sixth mass extinction" - particularly affecting tropical and subtropical regions.

Newly described taxa
Newly described genera (5) and subgenera (3)

Genus *Nothogossa* gen. nov. HACKER
Genus *Paranyodes* gen. nov. HACKER
Genus *Lichenyodes* gen. nov. HACKER
Genus *Miryodes* gen. nov. HACKER
Genus *Triangyodes* gen. nov. HACKER
Subgenus *Cucullissima* gen. nov. HACKER & ZILLI
Subgenus *Poliochrea* gen. nov. HACKER & ZILLI
Subgenus *Ophidianeia* subgen. nov. HACKER

Newly described species (138) and subspecies (10)

22 *Hadena (Anepia) afromontana* spec. nov. HACKER, FIEBIG & STADIE
28 *Tholeropsis porphyrota* spec. nov. HACKER
41 *Anarta eremochroa* spec. nov. HACKER & ZILLI
42 *Anarta gibeauxi* spec. nov. HACKER, LEGRAIN & ZILLI
43 *Anarta baroni* spec. nov. HACKER & ZILLI
44 *Anarta kruegeri* spec. nov. HACKER
45 *Anarta politzari* spec. nov. HACKER
58 *Aspidifrontia duplicata* spec. nov. HACKER & ZILLI
65 *Aspidifrontia plectoides* spec. nov. HACKER & ZILLI
71 *Aspidifrontia brachymicra* spec. nov. HACKER
79 *Aspidifrontia rufescens endrodyougai* subspec. nov. HACKER
83 *Aspidifrontia coronata* spec. nov. HACKER & ZILLI
84 *Aspidifrontia gaerdesi* spec. nov. HACKER & ZILLI
86 *Aspidifrontia abyssina* spec. nov. HACKER & ZILLI
87 *Aspidifrontia zernyi* spec. nov. HACKER & ZILLI
92 *Aspidifrontia albolineata* spec. nov. HACKER & ZILLI
93 *Aspidifrontia albangulata* spec. nov. HACKER, FIEBIG & STADIE
101 *Saalmuellerana cineracea* spec. nov. HACKER & ZILLI
102 *Saalmuellerana gondwana* spec. nov. HACKER & ZILLI
104 *Saalmuellerana serrula* spec. nov. HACKER & ZILLI
105 *Saalmuellerana fuscula* spec. nov. HACKER & ZILLI
113 *Odontestra porphyrista* spec. nov. HACKER, FIEBIG & STADIE
118 *Dicerogastra declivis* spec. nov. HACKER & ZILLI
120 *Dicerogastra zambesiaca* spec. nov. HACKER & ZILLI
124 *Dicerogastra pallidula* spec. nov. HACKER, FIEBIG & STADIE
133 *Omphalestra anartoides* spec. nov. HACKER & ZILLI
134 *Omphalestra musculana* spec. nov. HACKER & ZILLI
139 *Omphalestra anepioides* spec. nov. HACKER & ZILLI
140 *Omphalestra abyssina* spec. nov. HACKER & ZILLI
144 *Omphalestra hermannstaudei* spec. nov. HACKER
147 *Omphalestra kirinyaga* spec. nov. HACKER, FIEBIG & STADIE
149 *Omphalestra peregovitsi* spec. nov. HACKER & ZILLI
162 *Nothogossa lenzi* spec. nov. HACKER
169 *Melionica nigripuncta* spec. nov. HACKER
171 *Melionica crista* spec. nov. HACKER, FIEBIG & STADIE
172 *Melionica hoppei* spec. nov. HACKER
173 *Melionica aarviki* spec. nov. HACKER
174 *Melionica joergmuelleri* spec. nov. HACKER
182 *Melionica angulata* spec. nov. HACKER & ZILLI
184 *Melionica citrargo* spec. nov. HACKER & ZILLI
190 *Tycomarptes leucostigmata* spec. nov. HACKER & ZILLI
191 *Tycomarptes ignota* spec. nov. HACKER & ZILLI
192 *Tycomarptes shimbiris* spec. nov. HACKER & ZILLI
193 *Tycomarptes ndemiensis* spec. nov. HACKER & ZILLI

196 *Tycomarptes golovizini* spec. nov. HACKER, FIEBIG & STADIE
 198.1 *Tycomarptes albirena* spec. nov. HACKER, FIEBIG & STADIE
 200 *Tycomarptes bella* spec. nov. HACKER & ZILLI
 205 *Apospasta (Apospasta) schellhorni* spec. nov. HACKER & FIEBIG & STADIE
 209 *Apospasta (Apospasta) claromaculosa* spec. nov. HACKER & ZILLI
 212 *Apospasta (Apospasta) aurivillii* spec. nov. HACKER & ZILLI
 213 *Apospasta (Apospasta) altifusca* spec. nov. HACKER, FIEBIG & STADIE
 217 *Apospasta (Apospasta) szunyoghyi* spec. nov. HACKER & ZILLI
 222 *Apospasta (Apospasta) grandifusca* spec. nov. HACKER & ZILLI
 224 *Apospasta (Apospasta) pulcherrima* spec. nov. HACKER & ZILLI
 231.1 *Apospasta (Cucullissima) occidentalis* spec. nov. HACKER
 233 *Apospasta (Cucullissima) fibigeri* spec. nov. HACKER
 234 *Apospasta (Cucullissima) glaucirufa* spec. nov. HACKER & ZILLI
 235 *Apospasta (Cucullissima) pusilla* spec. nov. HACKER & ZILLI
 241 *Apospasta (Cucullissima) claviformis* spec. nov. HACKER & ZILLI
 242 *Apospasta (Cucullissima) subvenata* spec. nov. HACKER, FIEBIG & STADIE
 243 *Apospasta (Cucullissima) behouneki* spec. nov. HACKER
 244 *Apospasta (Cucullissima) karischi* spec. nov. HACKER
 244.1 *Apospasta (Cucullissima) apameana* spec. nov. HACKER, FIEBIG & STADIE
 245 *Apospasta (Cucullissima) albertina* spec. nov. HACKER, FIEBIG & STADIE
 247 *Apospasta (Poliochrea) consanguinea* spec. nov. HACKER, FIEBIG & STADIE
 248 *Apospasta (Poliochrea) mulanjea* spec. nov. HACKER, FIEBIG, STADIE & ZILLI
 249 *Apospasta (Poliochrea) aulombardi* spec. nov. HACKER
 263 *Nyodes compacta* spec. nov. HACKER & LÁSZLÓ
 270 *Nyodes endemica* spec. nov. HACKER & LÁSZLÓ
 278 *Nyodes maculosa* spec. nov. HACKER, FIEBIG & STADIE
 282 *Nyodes chlorobapta megabapta* subspec. nov. HACKER
 283 *Nyodes flavoviridis* spec. nov. HACKER, FIEBIG & STADIE
 284 *Nyodes cornuata* spec. nov. HACKER, FIEBIG & STADIE
 292 *Paranyodes michaelochsei* spec. nov. HACKER
 293 *Paranyodes subpunctata* spec. nov. HACKER & LÁSZLÓ
 297 *Paranyodes bifurca* spec. nov. HACKER
 300 *Lichenyodes panconitoides* spec. nov. HACKER
 302 *Lichenyodes mochloensis* spec. nov. HACKER, FIEBIG & STADIE
 305 *Lichenyodes humilis* spec. nov. HACKER & LÁSZLÓ
 306 *Lichenyodes nimba* spec. nov. HACKER & LÁSZLÓ
 312 *Lichenyodes karischi* spec. nov. HACKER
 323 *Eucladodes sholla* spec. nov. HACKER & ZILLI
 324 *Eucladodes avicula* spec. nov. HACKER & ZILLI
 327 *Rougeotia serotina* spec. nov. HACKER & ZILLI
 329 *Rougeotia juergenzi* spec. nov. HACKER
 333 *Rougeotia unilinea* spec. nov. HACKER & ZILLI
 334 *Rougeotia flaveosa* spec. nov. HACKER & ZILLI
 335 *Rougeotia rufofusca* spec. nov. HACKER, FIEBIG & STADIE
 346 *Diaphone eumela fasciola* subspec. nov. HACKER & ZILLI
 347 *Diaphone praetermissa* spec. nov. HACKER & ZILLI
 352 *Diaphone rungsi eburnea* subspec. nov. HACKER & ZILLI
 365 *Leucania (Leucania) politzari* spec. nov. HACKER & ZILLI
 366 *Leucania (Leucania) fuscomaculata* spec. nov. HACKER & ZILLI
 367 *Leucania (Leucania) nanodes* spec. nov. HACKER & ZILLI
 368 *Leucania (Leucania) peregrina* spec. nov. HACKER & ZILLI
 374 *Leucania (Leucania) harundinosa* spec. nov. HACKER
 375 *Leucania (Leucania) nonagriona* spec. nov. HACKER & ZILLI
 378 *Leucania (Leucania) exclamationis* spec. nov. HACKER & ZILLI
 382 *Leucania (Leucania) platyodea* spec. nov. HACKER & LEGRAIN
 385 *Leucania (Iceleucania) melanostrota paurostrota* subspec. nov. HACKER & ZILLI
 387 *Leucania (Iceleucania) perlucidans* spec. nov. HACKER & ZILLI
 388 *Leucania (Iceleucania) perleucanoides* spec. nov. HACKER & ZILLI
 388.1 *Leucania (Iceleucania) perleuca* spec. nov. HACKER, FIEBIG & STADIE
 403.1 *Mythimna (Aletia) bonga* spec. nov. HACKER, FIEBIG & STADIE

403.1 *Mythimna (Aletia) tinctoidea* spec. nov. HACKER
 409 *Mythimna (Aletia) usta septentrionalis* subspec. nov. HACKER
 410 *Mythimna (Aletia) heterotaxa* spec. nov. HACKER, FIEBIG & STADIE
 411 *Mythimna (Aletia) leucaniata* spec. nov. HACKER & SCHREIER
 412 *Mythimna (Aletia) clandestina* spec. nov. HACKER & ZILLI
 413 *Mythimna (Aletia) behouneki* spec. nov. HACKER
 414 *Mythimna (Aletia) dyssymmetrica* spec. nov. HACKER & ZILLI
 415 *Mythimna (Aletia) griseofusca* spec. nov. HACKER, FIEBIG & STADIE
 419 *Mythimna (Aletia) sublunula* spec. nov. HACKER & ZILLI
 423.1 *Mythimna (Aletia) ampliata* spec. nov. HACKER
 424 *Mythimna (Aletia) archanara* spec. nov. HACKER & ZILLI
 425 *Mythimna (Aletia) straminicola* spec. nov. HACKER & ZILLI
 426 *Mythimna (Aletia) archanaroides* spec. nov. HACKER & ZILLI
 432 *Mythimna (Aletia) cohaesa* spec. nov. HACKER
 433 *Mythimna (Aletia) nimba* spec. nov. HACKER
 434 *Mythimna (Aletia) difficillima* spec. nov. HACKER & ZILLI
 436 *Mythimna (Aletia) pallidivena* spec. nov. HACKER & ZILLI
 437 *Mythimna (Aletia) pallidivenata* spec. nov. HACKER & ZILLI
 438 *Mythimna (Aletia) pararchanara* spec. nov. HACKER & ZILLI
 439 *Mythimna (Aletia) flavalba strutzbergi* subspec. nov. HACKER, FIEBIG & STADIE
 461 *Mythimna (Aletia) pseudostrota* spec. nov. HACKER & BEHOUNEK
 464 *Mythimna (Aletia) pseudamlaki* spec. nov. HACKER & ZILLI
 465 *Mythimna (Aletia) afroalpina* spec. nov. HACKER, FIEBIG & STADIE
 466 *Mythimna (Aletia) indecora* spec. nov. HACKER & ZILLI
 467 *Mythimna (Aletia) subdecora* spec. nov. HACKER, FIEBIG & STADIE
 468 *Mythimna (Aletia) subargyrina* spec. nov. HACKER & ZILLI
 469 *Mythimna (Aletia) parastrota* spec. nov. HACKER, FIEBIG & STADIE
 470 *Mythimna (Aletia) ochrostrota* spec. nov. HACKER & ZILLI
 479 *Mythimna (Aletia) aarviki* spec. nov. HACKER & LEGRIN
 484 *Mythimna (Aletia) oblita* spec. nov. HACKER & ZILLI
 493 *Morphopoliana caelebs seorsa* subspec. nov. HACKER & ZILLI
 507 *Morphopoliana baronensis* spec. nov. HACKER
 509 *Anapoma simillima* spec. nov. HACKER & ZILLI
 510 *Anapoma abyssina* spec. nov. HACKER, FIEBIG & STADIE
 511 *Anapoma simplex* spec. nov. HACKER
 519 *Vietteania (Vietteania) hausmanni* spec. nov. HACKER
 520 *Vietteania (Vietteania) karoensis* spec. nov. HACKER
 521 *Vietteania (Vietteania) lenzi* spec. nov. HACKER
 525 *Vietteania (Vietteania) diffinis* spec. nov. HACKER, FIEBIG & STADIE
 527 *Vietteania (Ophidianeana) terminata* spec. nov. HACKER
 528 *Vietteania (Ophidianeana) stenotrachela* spec. nov. HACKER
 529 *Vietteania (Ophidianeana) mambillana* spec. nov. HACKER

Contents

Abstract	3
Newly described taxa	4
Contents	7
Author's contributions	7
Acknowledgements	7
Acronyms of depositories, abbreviations	8
Subfamily Hadeninae, GUENÉE, 1837, Historical Review	9
Material and Methods	10
Survey of all African species of the subfamily Hadeninae	13
Biogeographical units of Africa, overview	24
Systematic Part	30
Literature	460
Genitalia Figures	483
Distribution Maps	704
Photos of habitats and specimens	779
Colour Plates	784
Index	916

Author's contributions

Vol. 4 of the Moths of Africa series presented here was conceived and planned by Hermann H. HACKER and Alberto ZILLI; both authors supervised the project, wrote all parts of the manuscript, discussed the results and contributed to the final manuscript.

Albert LEGRAIN contributed to the interpretation of the results of the tribe Leucaniini.

Ralf FIEBIG, Albert LEGRAIN, Gyula M. LÁSZLÓ, Hans-Peter SCHREIER and Dirk STADIE contributed to the implementation of the species descriptions.

Ralf FIEBIG and Dirk STADIE designed the colour plates.

Ralf FIEBIG, Hans-Peter SCHREIER and Dirk STADIE contributed to the sample preparation.

All authors provided critical feedback and helped shape the research, analysis and manuscript.

Acknowledgements

We are deeply indebted to the following ladies and gentlemen for all their kind help, advice, information, for loan of material for study and illustration, and for providing photographs of images of larvae or resting adults: Leif AARVIK (Oslo, Norway); Francois AULOMBARD (Augoville-au-Plain, France); Thomas BARON (Wentorf, Germany); Roland BREITHAUP (Germany); Jurate and Willy De PRINS (Brussels, Belgium); Armin DETT (Radolfzell, Germany); Konrad EBERT (MfN); Heinz FISCHER (Rottach, Germany); Egbert FRIEDRICH (Jena, Germany); Sabine GAAL (NHMW); Klaus GOTTSCHALDT (Gilching, Germany); Axel HAUSMANN (ZSM); John HEYNS (Gauteng, South Africa); Timm KARISCH (MNVD); Ole KARSHOLT (UZM); Anthony KINGSTON (Wolverhampton, England); Bernard LANDRY (MHNG); Knud LARSEN (Søborg, Denmark); Jürgen LENZ (Harare, Zimbabwe); Stefan LEWANDOWSKI (München, Germany); Hans LÖBEL (Sondershausen, Germany); Martin LÖDL (NHMW); Marion MACLEAN (Montagu, South Africa); Wolfram MEY (MfN); Wolfgang NÄSSIG (SNM, Frankfurt); Stefan NAUMANN (Berlin, Germany); Michael OCHSE (Weisenheim am Berg, Germany); Lukasz PRZYBYŁOWICZ (Kraków, Poland); Tomasz W. PYRCZ (Kraków, Poland); Fabrizio RIGATO (MCSM); Oz RITTNER (Tel Aviv, Israel); Hanna ROLAND and Wolf-Achim ROLAND (Solingen, Germany); Laszlo RONKAY (HNHM); Aidas SALDAITIS (Vilnius, Lithuania); Ian SHARP (Hoedspruit, South Africa); Steffen SCHELLHORN (Halle/Saale, Germany); Hermann STAUDE (Magaliesburg, South Africa); Axel STEINER (Karlsruhe, Germany); Hartmuth STRUTZBERG (Weimar, Germany); Robert TRUSCH (SMNK); Jeroen VOIGT (Netherlands); Steve WOODHALL (Durban, South Africa); José Luis YELA (Toledo, Spain).

Acronyms of depositories, abbreviations

AMNH	American Museum of Natural History, New York, USA
ANIC	Australian National Insect Collection, Canberra, Australia
CMP	Carnegie Museum of Natural History, Pittsburgh, USA
HNHM	Magyar Természettudományi Múzeum (Hungarian Natural History Museum), Budapest, Hungary
IEVU	Institute of Ecology of Vilnius University, Lithuania
ISEAPAS	Institute of Systematics and Evolution of Animals, Polish Academy of Sciences, Krakow, Poland
MCSM	Museo Civico di Storia Naturale, Milano, Italy
MCSN	Museo Civico di Storia Naturale Giacomo Doria, Genoa, Italy
MCSV	Museo Civico di Storia Naturale di Verona, Verona, Italy
MCZR	Museo Civico di Zoologia, Roma
MfN	Museum für Naturkunde der Humboldt-Universität, Berlin, Germany
MHNG	Museum d'Histoire Naturelle, Genève, Switzerland
MNHN	Musée national d'Histoire naturelle, Paris, France
MNUL	Museum für Natur und Umwelt, Lübeck, Germany
MNSP	Museum Niederösterreich, St. Pölten, Austria
MNVD	Museum für Naturkunde und Vorgeschichte, Dessau, Germany
MRAC	Musée royal de l'Afrique centrale, Tervuren, Belgique
NHMB	Naturhistorisches Museum, Basel, Switzerland
NHMO	Naturhistorisk Museum, Oslo, Norway
NHMMUK	Natural History Museum (formerly British Museum of Natural History), London, U. K.
NHMW	Naturhistorisches Museum, Wien, Austria
NCBNL	Nederlands Centrum voor Biodiversiteit Naturalis), Leiden, Netherlands
NMB	National Museum of Zimbabwe, Bulawayo, Zimbabwe
NMK	National Museums of Kenya, Nairobi, Kenya
NRM	Naturhistoriska Riksmuseet (formerly Rijksmuseum van Natuurlijke Historie), Stockholm, Sweden
RMNH	Naturalis Biodiversity Center, Leiden, Netherlands
SAMC	South African Museum, Cape Town, South Africa
SCDPM	SCDP Museum, Hadibo, Socotra, Yemen
SMNK	Staatliches Museum für Naturkunde, Karlsruhe, Germany
SNMD	Senckenberg Museum, Dresden/formerly Museum für Tierkunde, Dresden, Germany
SNMF	Forschungsinstitut Senckenberg der Senckenbergischen Naturforschenden Gesellschaft, Frankfurt am Main, Germany
TMSA	Ditsong National Museum of Natural History, Pretoria, South Africa (formerly Transvaal Museum)
UMO	University Museum, Oxford University, U.K.
USNM	National Museum of Natural History, Washington, USA
ZSM	Zoologische Staatssammlung, München, Germany
ZFMK	Zool. Forschungsinstitut und Museum A.Koenig, Bonn, Germany
ZMJUK	Muzeum Zoologiczne Uniwersytetu Jagiellońskiego Witamy (Zoological Museum of the Jagiellonian University), Cracow, Poland
ZIN	Зоологический музей Зоологического института РАН (Zoological Museum of the Zoological Institute of the Russian Academy of Science), Санкт-Петербург (St. Petersburg), Russia
ZMH	Zoological Museum, Helsinki, Finland
ZMUC	Zoological Museum of the University of Copenhagen, Denmark
BIN	Barcode Index Number
BOLD	Barcode of Life Data Systems
BC ZSM Lep	Barcode Zoologische Staatssammlung München
CCDB	Canadian Centre for DNA Barcoding
Congo or DRC	Democratic Republic of Congo
RCA	Central African Republic
RSA	Republic of South Africa
UAE	United Arab Emirates
ICZN	International Commission of Zoological Nomenclature
of author(s)	[= misidentification]
comb. nov.	<i>new combination</i>
gen.prep.	genitalia preparation
syn. nov.	<i>new synonym</i>
spec. nov.	<i>new species</i>
subspec. nov.	<i>new subspecies</i>
nom. dub.	<i>nomen dubium</i> [= identity uncertain]
praeocc.	<i>name preoccupied</i>
incertae sedis	systematic position doubtful
L. t.	locus typicus (type locality)
HT	Holotype
PT	Paratype
LT	Lectotype
PLT	Paralectotype
ST	Syntype

Subfamily Hadeninae GUENÉE, 1837

Historical Review

Many of the Western Palaearctic representatives of the subfamily with the eponymous genus *Hadena* were described early by:

- HUFNAGEL, 1766, in the genus *Phalaena* (*bicruris*, *confusa*, *irregularis*),
- [DENIS & SCHIFFERMÜLLER], 1775, in the genus *Noctua* (*caesia*, *capsincola*, *compta*, *perplexa*),
- ESPER, [1788], in the genus *Phalaena Noctua* (*filograna*),
- BORKHAUSEN, 1792, in the genus *Phalaena Noctua* (*albimacula*)

The eponymous generic name *Hadena* was established by SCHRANK (1802), and the tribal name Hadenini was first mentioned by GUENÉE (1837, 1839, 1841). Other authors such as BOISDUVAL (1934), BOISDUVAL & GUENÉE (1852), HEINEMANN (1859) interpreted the type species in a different way from modern usage and included species of other genera such as *Euplexia* STEPHENS, 1829 and *Valeria* STEPHENS, 1829, today placed in the subfamily Xyleninae GUENÉE, 1837 (cf. also HACKER, 1996).

In vol. V (1905) of the 'Catalogue of the Lepidoptera Phalaenae in the British Museum' the subfamily Hadeninae was already aptly named and characterised in the "Preface" written by E. R. LANKESTER, at that time Director of NHMUK: "The subfamily is characterised by its trifid neurulation of the hind wing combined with the hairy clothing of the eyes, and forms an extremely natural and well-marked group of species". George Francis HAMPSON (1860-1936), author of the notable book series, gave a detailed key to all 78 genera then known, along with a chart of a kind of 'Phylogeny of the Hadeninae'.

Later on, the complete Hampsonian system of Noctuidae was adopted by most authors, such as WARREN (in SEITZ) (1909-1910), DRAUDT (1934-1938), and especially BOURSIN.

Later, many groups of genera and species of the former Hadeninae were arranged or revised from a taxonomic and nomenclatural point of view:

- *Leucania* complex of the Philippines: CALORA, 1966
- Larvae of the subfamily Hadeninae of America north of Mexico: GODFREY, 1972
- Hadeninae of Japan: SUGI, 1982
- Genus *Hadena*: HACKER, 1992, 1996
- Genus *Lacanobia*: BEHOUNEK, 1992
- Genus *Mythimna* from Japan and Taiwan: YOSHIMATSU, 1994
- Subgenus *Morphopoliana* of the genus *Mythimna*: HREBLAY, 1996
- *Hadula-Cardepia* complex: HACKER, 1998
- Genera *Sideridis*, *Saragossa*, *Conisania*, *Heliophobus*: VARGA & RONKAY, 1991b
- Tribus Orthosiini of the European Continent: RONKAY et al., 2001
- Tribus Hadenini, Mythimnini [Leucaniini] of the European Continent: HACKER et al., 2002
- Nearctic species of *Hadena*: TROUBRIDGE & CRABO, 2002
- Nearctic species of *Lasionycta*: CRABO & LAFONTAINE, 2009

The macroscopic eye hairs, the most common characteristic of Hadeninae, project from the surface of the eyes between the facets and are sometimes overhung by long cilia. The fore-tibiae usually lack terminal spines, and the proximal joints of the tarsi sometimes bear curved, claw-like spines. As with most of the triline Noctuidae, tympanal organs and immature stages provide little information in Hadeninae.

According to FIBIGER & LAFONTAINE (2005), the three subfamilies Hadeninae, Noctuinae and Xyleninae share characteristics of genitalia and spinneret of larva, but also differ in other character states.

YELA and ZAHIRI (2011) could not identify any derived character state supporting the subfamily Xyleninae.

KITCHING (1984) assumed "centres of monophyly" within the Hadeninae, around genera such as *Xanthopastis*, *Mythimna*, *Hadena* and *Orthosia*, but their limits and interrelationships remain so far unidentified.

KITCHING & RAWLINS (1999) point to the fact that "eyes are classified only as 'hairy' when the interfacetal setae are long enough to be visible with a hand lens. But microscopic interfacetal setae occur in most lepidopteran families. In addition, long setae occur also in Notodontidae, Noctuidae (Noctuinae, Agaristinae), Erebidae (Catocalinae) and Nymphalidae (Satyrinae) etc." KITCHING & RAWLINS (1999) described the Hadeninae (excluding Glottulinae) as triline noctuids with a filiform SD1 seta on larval segment A9, male genitalia with the harpe near the middle of the valva and a spinneret with its length greater than twice its width: "These characteristics are plesiomorphic, and hence Hadeninae is paraphyletic with regard to, at least, Noctuinae,

Ufeinae and Glottulinae". This is also supported by many overall similarities in genital morphology among the Hadeninae, Noctuinae, and Xyleninae, regardless of phylogenetic relationships.

Due to the lack of shared derived character states, MITCHELL et al. (2006) stated that the Xyleninae are probably paraphyletic or even polyphyletic with respect to some tribes in the Hadeninae, which are suspected of not forming a monophyletic unit. They suggest this complex as Hadeninae sensu stricto and, beyond that, Phlogophorini, Xylenini, Apameini and other unassociated genera such as Hadeninae s. l.

KEEGAN et al. (2021) preliminarily summarise Noctuinae, Hadeninae and Xyleninae.

With very few exceptions, conspicuous, macroscopic hairy eyes occur in the triline noctuids only in the subfamily Hadeninae. For that reason, HACKER et al. (2002) stated, "attempts to scatter genera with hairy eyes into other subfamilies and tribes together with those with lashed eyes should be refuted". However, both conflicting objective arguments should be kept in mind:

- On rare occasions, macroscopic hairy eyes are also observed in other Noctuidae (Pantheinae; some northern *Xestia* and *Feltia* species)

- In some Nearctic Hadeninae genera (*Protorthodes* Mc DUNNOUGH, *Trichocerapoda* BENJAMIN, *Escaria* GROTE), hairy eyes seem to be lost.

Generally, within the traditional subfamilies Hadeninae, Noctuinae, and Xyleninae, morphological characteristics are few, often unreliable, and inconsistent. Therefore, much more molecular data are needed, but also, the evaluation of molecular data is complex.

In this treatment of the African Hadeninae we are not able to solve the general problem. Therefore, we have opted to follow the preliminary arrangement proposed by FIBIGER & LAFONTAINE (2005), who reinstated the subfamily in its traditional usage as a probably monophyletic group, including the six tribes:

Hadenini GUENÉE, 1852. Type genus *Hadena* SCHRANK, 1802 (with four subtribes)

Hadenina GUENÉE, 1852. Type genus: *Hadena* SCHRANK, 1802

Discestrina BECK, 1996. Type genus: *Discestra* HAMPSON, 1905

Poliina BECK, 1996. Type genus: *Polia* OCHSENHEIMER, 1816

Mamestrina BECK, 1996. Type genus: *Mamestra* OCHSENHEIMER, 1816

Eriopygini FIBIGER & LAFONTAINE, 2005. Type genus: *Eriopyga* GUENÉE, 1852

Tholerini BECK, 1996. Type genus: *Tholera* HÜBNER, [1821]

Orthosiini GUENÉE, 1837. Type genus: *Orthosia* OCHSENHEIMER, 1816

Glottulini GUENÉE, 1852. Type genus: *Glottula* GUENÉE, 1837

Leucaniini GUENÉE, 1837. Type genus: *Leucania* OCHSENHEIMER, 1816

The tropical faunas still need a lot of work to resolve the systematic relationships between groups. For this reason, in some cases the generic descriptions are influenced by characters of their type species and do not necessarily reflect all taxa currently assigned to the genera, although we tried our best to circumscribe taxonomically meaningful groups.

Material and Methods

Material and data presented in this book are derived from all collections containing specimens from the area concerned. These include the Natural History Museum, London; the Muséum National d'Histoire Naturelle, Paris; the Musée Royal de l'Afrique Centrale, Tervuren; the Museum Witt, Munich; the Naturhistorisk Museum, Oslo; the Naturhistorisches Museum der Humboldt-Universität, Berlin; the Naturhistorisches Museum, Vienna; the Staatliches Museum für Naturkunde, Karlsruhe; the Forschungsinstitut Senckenberg, Frankfurt; the Transvaal Museum, Pretoria; and the Zoologische Staatssammlung, Munich. Material has also been obtained from numerous private collectors, who are listed under 'Acknowledgements'.

The majority of the specimens are housed in a separate section of the African Collection of the ZSM, which includes the author's collections and also contains a large quantity of unidentified material. For many parts of this book, it was necessary to examine and illustrate all relevant type specimens, most of which were located in the collections mentioned above.

The holotypes of the species described herein are deposited in the Zoologische Staatssammlung, Munich, except where otherwise specified; all material collected by the first author is also held in the ZSM.

Photographs of specimens were taken, whenever possible, prior to dissection. Owing to the vast number of species treated here, many of which are remarkably similar, it was necessary to make more than 4,000 dissections of male and female genitalia, using permanent genitalia slides and following the standard

procedure for Noctuoidea (FIBIGER, 1997). The nomenclature of internal structures, primarily parts of the male and female genitalia, follows that used in the series Noctuidae Europaeae and earlier publications by the authors, especially HACKER et al. (2002). The definition of the processes on the inner surface of the valva of the male genitalia varies between publications, particularly between those dealing with the faunas of the New and Old Worlds. Therefore, the features clasper, harpe, digitus, and ampulla are redefined here to avoid ambiguity. The terminology applied to certain structures of the male and female genitalia - especially the processes on the inner surface of the valva and the female copulatory apparatus - follows SUKHAREVA (1973, figs. 1–2), HACKER (1996a), and HACKER et al. (2002).

DNA barcodes for most of the species treated in this work were obtained from samples taken from the dry legs of each specimen. The DNA extracts are stored at the CCDB and the ZSM DNA Bank facility. Data relating to the specimens - such as images, voucher deposition, GenBank accession numbers, GPS coordinates, sequences, and trace files - are stored in BOLD within the GZPPL and GZPPT projects. The sample IDs (Museum IDs) of the specimens (voucher depositions) are all listed, e.g., “BC ZSM Lep 48145”; the samples used in this revision are underlined.

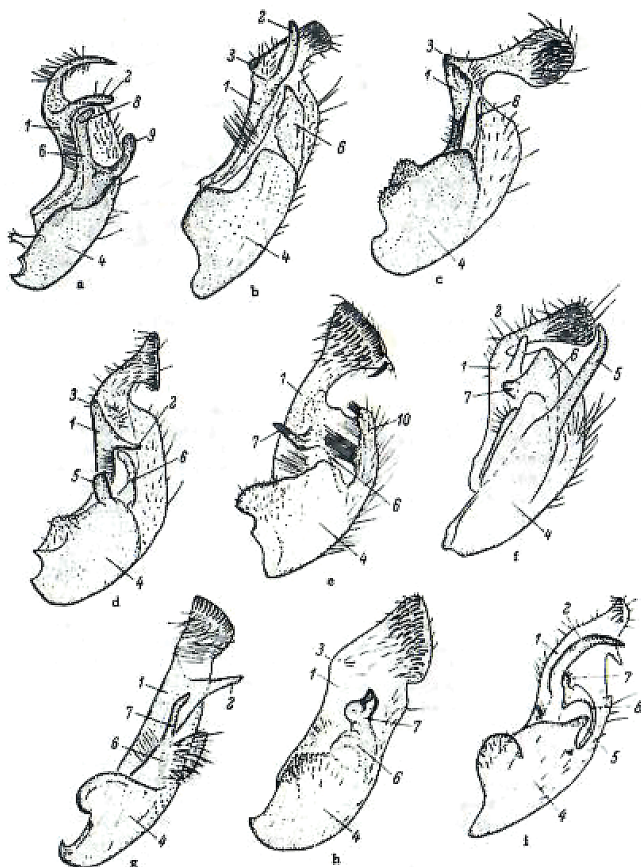
The treatment of sequence divergences for the barcode region follows RATNASINGHAM & HEBERT (2007), employing the Kimura 2-Parameter model and the analytical tools available on BOLD (cf. HAUSMANN, 2011). Genetic distances between genera and species, as shown in some figures, are reported as minimum pairwise distances (cf. also HAUSMANN, 2011). Where applicable, neighbour-joining and maximum-likelihood trees were constructed using the analytical tools provided by the Barcode of Life Data Systems (BOLD; RATNASINGHAM & HEBERT, 2007) and the BIN system on BOLD (RATNASINGHAM & HEBERT, 2013). Genetic distances are reported using the BOLD barcode gap analysis. All images of barcoded specimens are uploaded and freely accessible on the BOLD database.

Although the number of DNA barcode clusters is increasing rapidly and molecular approaches now permit swift identifications and detailed species descriptions, the situation in Africa remains at an early stage. A large number of DNA barcode clusters on platforms such as BOLD (<http://www.boldsystems.org/>; RATNASINGHAM & HEBERT, 2007) or GenBank (www.ncbi.nlm.nih.gov/genbank/; BENSON et al., 2012) cannot yet be associated with valid scientific names. Most of the African Hadeninae species treated in this revision are not yet represented in DNA barcode reference libraries or are still unknown to science. Consequently, comparable results were only possible for species for which newly collected material was available. Inevitably, DNA sequencing takes second place to more traditional taxonomic tools, such as morphological analysis, study of male and female genitalia, and biogeographical assessment.

As also done in the first three volumes of the “Moths of Africa” series, each species is associated with one or more of the biogeographical units of Africa, as defined by HACKER (2019) and illustrated and listed in fig. 3. Distribution is shown on maps, with point images of verified records. Many geographical references in the literature are mentioned but not shown on the distribution maps, especially for species that are hard to identify or have taxonomic problems.

A number of taxa of clear African affinity from neighboring regions, particularly from the SW Arabian Peninsula, have also been treated for completeness.

The present taxonomic revision of the African Hadeninae constitutes a first summary of the situation across the African continent. However, in many cases, the final evaluation of taxa and their distribution remains incomplete; this extensive task is deferred to future studies. In stark contrast to the slow pace of biodiversity assessment and description, our planet is currently experiencing rapid and severe biodiversity loss - often referred to as the “sixth mass extinction” - particularly affecting tropical and subtropical regions.



a) Mamestra suasa Den. et Schiff.; b) M. biren Goetze; c) Hadena rivularis F.; d) H. irregularis Hfn.; e) Polia nebulosa Hfn.; f) Mythimna anderreggii Bsd.; g) Lasionycta proxima Hb.; h) Tholera cespitis Den. et Schiff.; i) Orthosia incerta Hfn. 1) costa, 2) process of costa, 3) costal process, 4) sacculus; 5) apical process of sacculus, 6) clasper, 7) harpe, 8) apical process of clasper, 9) basal process of clasper, 10) process of lower margin of valva.

Fig. 1 Terms applied to the processes of inner surface of valva of male genitalia of Hadeninae (SUKHAREVA, 1973, fig. 1)



1) sinus vaginalis, 2) antrum, 3) bulla seminalis

Fig. 2 Terms applied to the structure of the copulatory apparatus of the female genitalia of Hadeninae (SUKHAREVA, 1973, fig. 2), only the term bulla seminalis is changed here to appendix bursae.

Survey of all African species of the subfamily Hadeninae

Tribe Hadenini GUENÉE, 1837

Subtribe Hadenina GUENÉE, 1852

Genus *Hadena* SCHRANK, 1802

Subgenus *Hadena* SCHRANK, 1802

- 1 *Hadena (Hadena) bicurris* (HUFNAGEL, 1766)
- 2 *Hadena (Hadena) atalantica* (HAMPSON, 1905)
- 3 *Hadena (Hadena) karsholti* HACKER, 1995
- 4 *Hadena (Hadena) nigricata* PINKER, 1969
- 5 *Hadena (Hadena) azorica* FIBIGER & MEYER, 2002
- 6 *Hadena (Hadena) magnolii magnolii* (BOISDUVAL, 1829)
- 7 *Hadena (Hadena) compta almoravida* HACKER, 1996
- 8 *Hadena (Hadena) schwingenschussi* (DRAUDT, 1934)
- 9 *Hadena (Hadena) confusa confusa* (HUFNAGEL, 1766)
- 10 *Hadena (Hadena) adriana* (SCHAWERDA, 1921)
- 11 *Hadena (Hadena) albimacula albimacula* (BORKHAUSEN, 1792)
- 12 *Hadena (Hadena) duercki* (DRAUDT, 1934)
- 13 *Hadena (Hadena) clara atlantis* (DRAUDT, 1934)
- 14 *Hadena (Hadena) salmonea* (DRAUDT, 1934)
- 15 *Hadena (Hadena) rolleti* DE LAJONQUIÈRE, 1969
- 16 *Hadena (Hadena) luteocincta maroccana* HACKER, 1996
- 17 *Hadena (Hadena) filograna rungsi* LAJONQUIÈRE, 1967
- Subgenus *Anepia* HAMPSON, 1918
- 18 *Hadena (Anepia) syriaca petroffi* (WILTSHIRE, 1948)
- 19 *Hadena (Anepia) perplexa perplexa* ([DENIS & SCHIFFERMÜLLER], 1775)
- 20 *Hadena (Anepia) sancta trisagittata* (ROTHSCHILD, 1914)
- 20 *Hadena (Anepia) sancta atrifusa* WILTSHIRE, 1986
- 21 *Hadena (Anepia) avempacei* (TAMS, 1925)
- 22 *Hadena (Anepia) afromontana* spec. nov. HACKER, FIEBIG & STADIE
- Subgenus *Pronotestra* HAMPSON, 1905
- 23 *Hadena (Pronotestra) silenides* (STAUDINGER, 1895)
- Genus *Enterpia* GUENÉE, 1850
- 24 *Enterpia laudeti roseomarginata* CALBERLA, 1891
- Genus *Koffoleania* LAPORTE, 1977
- 25 *Koffoleania michaelae* LAPORTE, 1977
- Genus *Tholeropsis* BERIO, 1977
- 26 *Tholeropsis decimata* BERIO, 1977
- 27 *Tholeropsis uncinata* BERIO, 1977
- 28 *Tholeropsis porphyrota* spec. nov. HACKER
- Genus *Dargida* WALKER 1856
- 29 *Dargida exoul* (WALKER, 1856)
- Genus *Elaemima* BERIO, 1970
- 30 *Elaemima brunnea* BERIO, 1970

Subtribe Discestrina BECK, 1996

Genus *Anarta* OCHSENHEIMER, 1816

- 31 *Anarta myrtilli* (LINNAEUS, 1761)
- 32 *Anarta trifolii* (HUFNAGEL, 1766)
- 33 *Anarta endemica* HACKER & SALDAITIS, 2010
- 34 *Anarta atlantis* (SCHWINGENSCHUSS, 1955)
- 35 *Anarta dianthi getula* (RUNGS, 1943)
- 36 *Anarta sodae rosacea* (ROTHSCHILD, 1920)
- 36 *Anarta sodae salicorniae* (DUMONT, 1925)
- 37 *Anarta sabulorum pulverata* (BANG-HAAS, 1907)
- 38 *Anarta engedina* (HACKER, 1998)
- 39 *Anarta deserticola* (HAMPSON, 1905)
- 40 *Anarta cimbebasia* (HACKER, 2004)
- 41 *Anarta eremochroa* spec. nov. HACKER & ZILLI

- 42 *Anarta gibeauxi* spec. nov. HACKER, LEGRAIN & ZILLI
 43 *Anarta baroni* spec. nov. HACKER & ZILLI
 44 *Anarta kruegeri* spec. nov. HACKER
 45 *Anarta politzari* spec. nov. HACKER
 46 *Anarta pallidicosta* (HAMPSON, 1918) comb. nov.
 Genus *Odontelia* HAMPSON, 1905
 47 *Odontelia daphnadeparisae* MÜLLER, KRAVCHENKO, RONKAY, SPEIDEL, WITT, MOOSER, JUNNILA & ZILLI, 2007
 Genus *Thargelia* PÜNGELER, 1899
 48 *Thargelia gigantea* REBEL, 1909
 Genus *Cardebia* HAMPSON, 1905
 49 *Cardebia sociabilis mauretanica* ROTHSCILD, 1920
 49 *Cardebia sociabilis deserticola* DRAUDT, 1934
 50 *Cardebia affinis affinis* ROTHSCILD, 1913
 50 *Cardebia affinis legraini* HACKER, 1998
 51 *Cardebia quercii* (BERIO, 1941)
 52 *Cardebia emmanueli* BERIO, 1993
 53 *Cardebia mixta* (PAGENSTECHE, 1907)
 54 *Cardebia subvelata* (WALKER, 1875)
 55 *Cardebia definiens* (WALKER, 1857)
 Genus *Aspidifrontia* HAMPSON, 1902
 56 *Aspidifrontia semipallida* HAMPSON, 1902
 57 *Aspidifrontia hemileuca* (HAMPSON, 1909)
 58 *Aspidifrontia duplicata* spec. nov. HACKER & ZILLI
 59 *Aspidifrontia glaucescens* HAMPSON, 1905
 60 *Aspidifrontia villiersi* (LAPORTE, 1972)
 61 *Aspidifrontia pallidula* HACKER & HAUSMANN, 2010
 62 *Aspidifrontia amoeba* (HAMPSON, 1905)
 63 *Aspidifrontia senegalensis* BERIO, 1966
 64 *Aspidifrontia biarcuata* BERIO, 1964
 65 *Aspidifrontia plectoides* spec. nov. HACKER & ZILLI
 66 *Aspidifrontia sagitta* BERIO, 1964
 67 *Aspidifrontia vitta* (BERIO, 1975)
 68 *Aspidifrontia ferox* (BERIO, 1973)
 69 *Aspidifrontia malgassica* (VIETTE, 1969)
 70 *Aspidifrontia variegata* (BERIO, 1940)
 71 *Aspidifrontia brachymicra* spec. nov. HACKER
 72 *Aspidifrontia binagwaho* (LAPORTE, 1978)
 73 *Aspidifrontia bulgeri* (FELDER & ROGENHOFER, 1874)
 74 *Aspidifrontia pseudosubgothica* BERIO, 1964
 75 *Aspidifrontia balachowskyi* (LAPORTE, 1974)
 76 *Aspidifrontia radiata* HAMPSON, 1905
 77 *Aspidifrontia tanganykae* BERIO, 1964
 78 *Aspidifrontia cinerea* BERIO, 1966
 79 *Aspidifrontia rufescens rufescens* HAMPSON, 1902
 79 *Aspidifrontia rufescens endrodyoungi* subspec. nov. HACKER
 80 *Aspidifrontia bussindii* BERIO, 1937
 81 *Aspidifrontia pulvereana* HAMPSON, 1913
 82 *Aspidifrontia corticea* (HAMPSON, 1910)
 83 *Aspidifrontia coronata* spec. nov. HACKER & ZILLI
 84 *Aspidifrontia gaerdesi* spec. nov. HACKER & ZILLI
 85 *Aspidifrontia africana* BERIO, 1977
 86 *Aspidifrontia abyssina* spec. nov. HACKER & ZILLI
 87 *Aspidifrontia zernyi* spec. nov. HACKER & ZILLI
 89 *Aspidifrontia richinii* (BERIO, 1940)
 90 *Aspidifrontia contrastata* A. E. PROUT, 1921
 91 *Aspidifrontia albivitta* (HAMPSON, 1905)
 92 *Aspidifrontia albolineata* spec. nov. HACKER & ZILLI
 93 *Aspidifrontia albangulata* spec. nov. HACKER, FIEBIG & STADIE
 Genus *Omphalagria* HAMPSON, 1910
 94 *Omphalagria hemiochra* HAMPSON, 1910

- 95 *Omphalagria togoensis* GAEDE, 1915
 96 *Omphalagria berioi* (HACKER & HAUSMANN, 2010)
 97 *Omphalagria goniosema* (HAMPSON, 1913)
 Genus *Saalmuellerana* FLETCHER & VIETTE, 1962
 98 *Saalmuellerana glebosa* (SAALMÜLLER, 1891)
 99 *Saalmuellerana illota* VIETTE, 1973
 100 *Saalmuellerana media aethiopica* HACKER & SCHREIER, 2010
 101 *Saalmuellerana cineracea* spec. nov. HACKER & ZILLI
 102 *Saalmuellerana gondwana* spec. nov. HACKER & ZILLI
 103 *Saalmuellerana schoenheiti schoenheiti* (STRAND, 1912)
 103 *Saalmuellerana schoenheiti rufimixta* (HAMPSON, 1918)
 104 *Saalmuellerana serrula* spec. nov. HACKER & ZILLI
 105 *Saalmuellerana fuscula* spec. nov. HACKER & ZILLI
 Genus *Odontestra* HAMPSON, 1905
 106 *Odontestra vittigera* (HAMPSON, 1902)
 107 *Odontestra conformis* HAMPSON, 1918
 108 *Odontestra unguiculata* BERIO, 1964
 109 *Odontestra speyeri* (FELDER & ROGENHOFER, 1874)
 111 *Odontestra angola* (BETHUNE-BAKER, 1911)
 112 *Odontestra avitta* FAWCETT, 1918
 113 *Odontestra porphyrista* spec. nov. HACKER, FIEBIG & STADIE
 114 *Odontestra spodopterodes* (HAMPSON, 1908)
 115 *Odontestra altitudinis* LAPORTE, 1973
 Genus *Dicerogastra* D. S. FLETCHER, 1961
 116 *Dicerogastra proleuca* (HAMPSON, 1913)
 117 *Dicerogastra furvilinea* (HAMPSON, 1902)
 118 *Dicerogastra declivis* spec. nov. HACKER & ZILLI
 119 *Dicerogastra ikondae* BERIO, 1973
 120 *Dicerogastra zambesiaca* spec. nov. HACKER & ZILLI
 121 *Dicerogastra madecassa* VIETTE, 1972
 122 *Dicerogastra confluens* (BETHUNE-BAKER, 1909)
 123 *Dicerogastra pectinata* (HAMPSON, 1905)
 124 *Dicerogastra pallidula* spec. nov. HACKER & ZILLI
 Genus *Omphalestra* D. S. FLETCHER, 1961
 125 *Omphalestra submedianata* (HAMPSON, 1905)
 126 *Omphalestra geraea* (HAMPSON, 1907)
 127 *Omphalestra chersotoides* (WILTSHIRE, 1956)
 128 *Omphalestra nellyae* (BERIO, 1939)
 129 *Omphalestra mesoglauca* (HAMPSON, 1902)
 130 *Omphalestra mediolacteata* (BERIO, 1941)
 131 *Omphalestra mesomelana* (HAMPSON, 1902)
 132 *Omphalestra holomelaena* BERIO, 1974
 133 *Omphalestra anartoides* spec. nov. HACKER & ZILLI
 134 *Omphalestra musculana* spec. nov. HACKER & ZILLI
 135 *Omphalestra semifusca* (HAMPSON, 1905)
 136 *Omphalestra atavistis* (HAMPSON, 1902)
 137 *Omphalestra cuprescens* (HAMPSON, 1905)
 138 *Omphalestra thomasi* (LAPORTE, 1991) comb. nov.
 139 *Omphalestra anepioides* spec. nov. HACKER & ZILLI
 140 *Omphalestra abyssina* spec. nov. HACKER & ZILLI
 141 *Omphalestra barberai* (BERIO, 1987)
 142 *Omphalestra dokoa* (LAPORTE, 1973)
 143 *Omphalestra tenebra* (HAMPSON, 1905)
 144 *Omphalestra hermannstaudei* spec. nov. HACKER
 145 *Omphalestra fasilidasi* (LAPORTE, 1984)
 146 *Omphalestra aedesiusi* (ROUGEOT & LAPORTE, 1983)
 147 *Omphalestra kirinyaga* spec. nov. HACKER, FIEBIG & STADIE
 149 *Omphalestra peregovitsi* spec. nov. HACKER & ZILLI
 Genus *Brithysana* VIETTE, [1963]
 150 *Brithysana maura* (SAALMÜLLER, 1891)

151 *Brithysana pauliani* VIETTE, 1967

Subtribe Poliina BECK, 1996

Genus *Pachetra* GUENÉE, 1841

152 *Pachetra sagittigera melanophaea* ZERNY, 1934

Subtribe Mamestrina H, 1996

153 *Mamestra brassicae* (LINNAEUS, 1758)

Genus *Lacanobia* BILLBERG, 1820

154 *Lacanobia oleracea* (LINNAEUS, 1758)

155 *Lacanobia softa luteocinnamomea* (ROTHSCHILD, 1920)

156 *Lacanobia blenna* (HÜBNER, [1824])

Genus *Melanchra* HÜBNER, [1820]

157 *Melanchra granti* WARREN, 1905

Genus *Sideridis* HÜBNER, [1821]

158 *Sideridis implexa* (HÜBNER, [1809])

Genus *Luteohadena* BECK, 1991

159 *Luteohadena luteago* ([DENIS & SCHIFFERMÜLLER], 1775)

160 *Luteohadena zernyi* (DRAUDT, 1934)

Genus *Saragossa* STAUDINGER, 1900

161 *Saragossa seeboldi* STAUDINGER, 1900

Genus *Nothogossa* gen. nov. HACKER

162 *Nothogossa lenzi* spec. nov. HACKER

Genus *Hecatera* GUENÉE, 1852

163 *Hecatera dysodea dysodea* ([DENIS & SCHIFFERMÜLLER], 1775)

163 *Hecatera dysodea faroulti* (ROTHSCHILD, 1914)

164 *Hecatera disjuncta* HACKER, 1999

165 *Hecatera weissi weissi* (DRAUDT, 1934)

165 *Hecatera weissi levantina* HACKER & ZILLI, 2001

166 *Hecatera maderae* (BETHUNE-BAKER, 1891)

167 *Hecatera cappa* (HÜBNER, [1809])

Genus *Melionica* BERIO, 1970

168 *Melionica citrinea* BERIO, 1970

169 *Melionica nigripuncta* spec. nov. HACKER

170 *Melionica albipuncta* (GAEDE, 1916)

171 *Melionica crista* spec. nov. HACKER, FIEBIG & STADIE

172 *Melionica hoppei* spec. nov. HACKER

173 *Melionica aarviki* spec. nov. HACKER

174 *Melionica joergmuelleri* spec. nov. HACKER

176 *Melionica rubella* BERIO, 1973

177 *Melionica phaeopasta* (HAMPSON, 1907)

177.1 *Melionica bilineata* (HAMPSON, 1905)

178 *Melionica mulanjensis* HACKER & LEGRAIN, 2006

179 *Melionica subrubella* HACKER & LEGRAIN, 2006

180 *Melionica pallescens* HACKER & LEGRAIN, 2006

181 *Melionica fletcheri* BERIO, 1973

182 *Melionica angulata* spec. nov. HACKER & ZILLI

183 *Melionica cupreata* (HAMPSON, 1905)

184 *Melionica citrargo* spec. nov. HACKER & ZILLI

185 *Melionica rufilinea* (HAMPSON, 1910)

Genus *Tycomarptes* D. S. FLETCHER, 1961

187 *Tycomarptes inferior* (GUENÉE, 1852)

188 *Tycomarptes bipuncta* LAPORTE, 1974

189 *Tycomarptes gelladarum* ROUGEOT & LAPORTE, 1983

190 *Tycomarptes leucostigmata* spec. nov. HACKER & ZILLI

191 *Tycomarptes ignota* spec. nov. HACKER & ZILLI

192 *Tycomarptes shimbiris* spec. nov. HACKER & ZILLI

193 *Tycomarptes ndemiensis* spec. nov. HACKER & ZILLI

194 *Tycomarptes jouriaci* LAPORTE, 1977

195 *Tycomarptes mauensis* LAPORTE, 1984

- 196 *Tycomarptes golovizini* spec. nov. HACKER, FIEBIG & STADIE
 197 *Tycomarptes proximoides* (WILTSHIRE, 1982)
 198 *Tycomarptes tortirena* (A. E. PROUT, 1921)
 198.1 *Tycomarptes albirena* spec. nov. HACKER, FIEBIG & STADIE
 199 *Tycomarptes superior* KRÜGER, 2005
 200 *Tycomarptes bella* spec. nov. HACKER & ZILLI
 201 *Tycomarptes renisigna* (WALKER, 1857)
 202 *Tycomarptes praetermissa* (WALKER, 1857)
 Genus *Aospasta* D. S. FLETCHER, 1959
 Subgenus *Aospasta* D. S. FLETCHER, 1959
 203 *Aospasta (Aospasta) sabulosa* D. S. FLETCHER, 1959
 204 *Aospasta (Aospasta) claudicans* (GUENÉE, 1852)
 205 *Aospasta (Aospasta) schellhorni* spec. nov. HACKER & FIEBIG & STADIE
 206 *Aospasta (Aospasta) albirenalis* LAPORTE, 1974
 207 *Aospasta (Aospasta) diffusa* LAPORTE, 1974
 208 *Aospasta (Aospasta) kennedyi* D. S. FLETCHER, 1961
 209 *Aospasta (Aospasta) claromaculosa* spec. nov. HACKER & ZILLI
 210 *Aospasta (Aospasta) synclera* D. S. FLETCHER, 1961
 *Aospasta (Aospasta) yemenitica* HACKER & FIEBIGER, 1999
 211 *Aospasta (Aospasta) montana* (AURIVILLIUS, 1910)
 212 *Aospasta (Aospasta) aurivillii* spec. nov. HACKER & ZILLI
 213 *Aospasta (Aospasta) altifusca* spec. nov. HACKER, FIEBIG & STADIE
 214 *Aospasta (Aospasta) afroalpina* (LAPORTE, 1976)
 215 *Aospasta (Aospasta) eriopygioides* (AURIVILLIUS, 1910)
 216 *Aospasta (Aospasta) elgonensis* PEREGOVITS & RONKAY, 1999
 217 *Aospasta (Aospasta) szunyoghyi* spec. nov. HACKER & ZILLI
 218 *Aospasta (Aospasta) erici* LAPORTE, 1984
 219 *Aospasta (Aospasta) atrirena* (HAMPSON, 1905)
 220 *Aospasta (Aospasta) townsendi* D. S. FLETCHER, 1961
 221 *Aospasta (Aospasta) venata* (HAMPSON, 1905)
 222 *Aospasta (Aospasta) grandifusca* spec. nov. HACKER & ZILLI
 223 *Aospasta (Aospasta) rhodina* D. S. FLETCHER, 1961
 224 *Aospasta (Aospasta) pulcherrima* spec. nov. HACKER & ZILLI
 Subgenus *Batuana* LAPORTE, 1976
 225 *Aospasta (Batuana) rougeoti* (LAPORTE, 1976)
 226 *Aospasta (Batuana) exspectata* (LAPORTE & ROUGEOT, 1981)
 227 *Aospasta (Batuana) abbahoyegarana* (ROUGEOT, 1983)
 228 *Aospasta (Batuana) alluaudi* (LAPORTE, 1991)
 Subgenus *Cucullissima* gen. nov. HACKER & ZILLI
 229 *Aospasta (Cucullissima) dipterigidia dipterigidia* (HAMPSON, 1902)
 229 *Aospasta (Cucullissima) dipterigidia fulvida* D. S. FLETCHER, 1961
 230 *Aospasta (Cucullissima) intricata* (SAALMÜLLER, 1891)
 231 *Aospasta (Cucullissima) deprivata* (A. E. PROUT, 1927)
 231.1 *Aospasta (Cucullissima) occidentalis* spec. nov. HACKER
 232 *Aospasta (Cucullissima) fuscirufa* (HAMPSON, 1905)
 233 *Aospasta (Cucullissima) fibigeri* spec. nov. HACKER
 234 *Aospasta (Cucullissima) glaucirufa* spec. nov. HACKER & ZILLI
 235 *Aospasta (Cucullissima) pusilla* spec. nov. HACKER & ZILLI
 236 *Aospasta (Cucullissima) aethalopa* D. S. FLETCHER, 1961
 237 *Aospasta (Cucullissima) jacksoni* D. S. FLETCHER, 1961
 238 *Aospasta (Cucullissima) nigerrima* LAPORTE, 1973
 239 *Aospasta (Cucullissima) verini* VIETTE, 1981
 240 *Aospasta (Cucullissima) rubiana* (GUENÉE, 1862)
 241 *Aospasta (Cucullissima) claviformis* spec. nov. HACKER & ZILLI
 242 *Aospasta (Cucullissima) subvenata* spec. nov. HACKER, FIEBIG & STADIE
 243 *Aospasta (Cucullissima) behouneki* spec. nov. HACKER
 244 *Aospasta (Cucullissima) karischi* spec. nov. HACKER
 244.1 *Aospasta (Cucullissima) apameana* spec. nov. HACKER, FIEBIG & STADIE
 245 *Aospasta (Cucullissima) albertina* spec. nov. HACKER, FIEBIG & STADIE

Subgenus *Poliochrea* gen. nov. HACKER & ZILLI

- 246 *Apospasta (Poliochrea) tamsi* HONEY & WOJTUSIAK, 1994
247 *Apospasta (Poliochrea) consanguinea* spec. nov. HACKER, FIEBIG & STADIE
248 *Apospasta (Poliochrea) mulanjea* spec. nov. HACKER, FIEBIG, STADIE & ZILLI
249 *Apospasta (Poliochrea) aulombardi* spec. nov. HACKER

Genus *Rungsianea* VIETTE, [1963]

250 *Rungsianea hecate* (VIETTE, 1960)

251 *Rungsianea fontainei* VIETTE, 1967

Genus *Maghadena* VIETTE, [1963]

252 *Maghadena betsileo* (VIETTE, 1960)

253 *Maghadena duberneti* VIETTE, 1968

254 *Maghadena malagasy* VIETTE, 1968

255 *Maghadena radama* VIETTE, [1963]

256 *Maghadena boby* (VIETTE, 1960)

257 *Maghadena norma* (SAALMÜLLER, 1891)

258 *Maghadena balachowskyi* VIETTE, 1967

Genus *Nyodes* LAPORTE, 1970

259 *Nyodes brevicornis* (WALKER, 1857)

260 *Nyodes dufayi* LAPORTE, 1970

261 *Nyodes thomae* (A. E. PROUT, 1927)

262 *Nyodes sandersi* LAPORTE, 1972

263 *Nyodes compacta* spec. nov. HACKER & LÁSZLÓ

264 *Nyodes vitanvali* LAPORTE, 1970

265 *Nyodes semliki* LAPORTE, 1971

266 *Nyodes paulis* LAPORTE, 1973

267 *Nyodes rangeri* LAPORTE, 1973

268 *Nyodes kilimandjaronis* LAPORTE, 1979

269 *Nyodes biardi* LAPORTE, 1984

270 *Nyodes endemica* spec. nov. HACKER & LÁSZLÓ

271 *Nyodes lutescens* (HERRICH-SCHÄFFER, 1854)

272 *Nyodes acatharta* (HAMPSON, 1913)

273 *Nyodes prasinodes prasinodes* (A. E. PROUT, 1921)

273 *Nyodes prasinodes petersi* LAPORTE, 1971

274 *Nyodes succincta* BERIO, [1973]

275 *Nyodes barnsi* (A. E. PROUT, 1921)

276 *Nyodes argentea* (BERIO, 1970)

277 *Nyodes lemairei* LAPORTE, 1972

278 *Nyodes maculosa* spec. nov. HACKER, FIEBIG & STADIE

279 *Nyodes bafouti* LAPORTE, 1972

280 *Nyodes virescens* (BUTLER, 1879)

281 *Nyodes ochrargyra* (MABILLE, 1900)

282 *Nyodes chlorobapta chlorobapta* (D. S. FLETCHER, 1961)

282 *Nyodes chlorobapta megabapta* subspec. nov. HACKER

283 *Nyodes flavoviridis* spec. nov. HACKER, FIEBIG & STADIE

284 *Nyodes cornuata* spec. nov. HACKER, FIEBIG & STADIE

285 *Nyodes bryodes* (D. S. FLETCHER, 1961)

286 *Nyodes subfuscata* (BERIO, 1970)

287 *Nyodes steelei* LAPORTE, 1971

Genus *Paranyodes* gen. nov. HACKER

288 *Paranyodes ruffusa* (HAMPSON, 1918)

289 *Paranyodes jucunda* (LAPORTE, 1973)

290 *Paranyodes pelletieri* (LAPORTE, 1971)

291 *Paranyodes punctata* (GAEDE, 1934)

292 *Paranyodes michaelochsei* spec. nov. HACKER

293 *Paranyodes subpunctata* spec. nov. HACKER & LÁSZLÓ

294 *Paranyodes nigrioides* (LAPORTE, 1977)

295 *Paranyodes bergeri* (LAPORTE, 1973)

296 *Paranyodes vigrinis* (LAPORTE, 1970)

297 *Paranyodes bifurca* spec. nov. HACKER

298 *Paranyodes paludicola* (ZILLI, LÁSLÓ, KINGSTON & LARSEN 2023)

Genus *Lichenyodes* gen. nov. HACKER

299 *Lichenyodes panconita* (D. S. FLETCHER, 1961)

300 *Lichenyodes panconitoides* spec. nov. HACKER

301 *Lichenyodes mochlosema* (D. S. FLETCHER, 1961)

302 *Lichenyodes mochloensis* spec. nov. HACKER, FIEBIG & STADIE

303 *Lichenyodes subnigra* (LAPORTE, 1973)

304 *Lichenyodes dargei* (LAPORTE, 1972)

305 *Lichenyodes humilis* spec. nov. HACKER & LÁSZLÓ

306 *Lichenyodes nimba* spec. nov. HACKER & LÁSZLÓ

307 *Lichenyodes callichlora* (D. S. FLETCHER, 1961)

308 *Lichenyodes lowai* (LAPORTE, 1973)

309 *Lichenyodes fletcheri* (LAPORTE, 1970)

310 *Lichenyodes nigra* (LAPORTE, 1970)

311 *Lichenyodes bernardii* (LAPORTE, 1970)

312 *Lichenyodes karischii* spec. nov. HACKER

313 *Lichenyodes viridirufa* (HAMPSON, 1918)

Genus *Miryodes* gen. nov. HACKER

314 *Miryodes tamsi* (LAPORTE, 1973)

315 *Miryodes punctifera* (LAPORTE, 1973)

316 *Miryodes marmorata* (BERIO, 1970)

Genus *Triangyodes* gen. nov. HACKER

317 *Triangyodes suppurifera suppurifera* (BERIO, 1970)

317 *Triangyodes suppurifera gabonensis* (LAPORTE, 1970)

Tribe **Eriopygini** FIBIGER & LAFONTAINE, 2005

Genus *Saltia* TAMS, 1952

318 *Saltia acrophylax* TAMS, 1952

319 *Saltia edwardsi* TAMS, 1952

Genus *Eucladodes* D. S. FLETCHER, 1961

320 *Eucladodes oeneus* (FAWCETT, 1918)

321 *Eucladodes achrorophilus* LAPORTE, 1976

322 *Eucladodes baleensis* LAPORTE, 1976

323 *Eucladodes sholla* spec. nov. HACKER & ZILLI

324 *Eucladodes avicula* spec. nov. HACKER & ZILLI

Genus *Rougeotia* LAPORTE, 1974

325 *Rougeotia aethiopica* LAPORTE, 1974

326 *Rougeotia abyssinica* (HAMPSON, 1918)

327 *Rougeotia serotina* spec. nov. HACKER & ZILLI

328 *Rougeotia rougeoti* LAPORTE, 1984

329 *Rougeotia juergentlenzi* spec. nov. HACKER

330 *Rougeotia osellai* BERIO, [1979]

331 *Rougeotia calumniosa* (BERIO, 1939)

332 *Rougeotia praetexta* (TOWNSEND, 1956)

Rougeotia dasypolioides HACKER, 1999

333 *Rougeotia unilinea* spec. nov. HACKER & ZILLI

334 *Rougeotia flaveosa* spec. nov. HACKER & ZILLI

335 *Rougeotia rufofusca* spec. nov. HACKER, FIEBIG & STADIE

Tribe **Tholerini** BECK, 1996

Genus *Tholera* HÜBNER, [1821]

336 *Tholera decimalis chebka* RUNGS, [1941]

Tribe **Orthosiini** GUENÉE, 1837

Genus *Orthosia* OCHSENHEIMER, 1816

337 *Orthosia manfredi* HREBLAY, 1994

338 *Orthosia cruda* ([DENIS & SCHIFFERMÜLLER, 1775])

339 *Orthosia boursini* RUNGS, 1972

- Genus *Egira* DUPONCHEL, [1845]
 340 *Egira conspicillaris* (LINNAEUS, 1758)
 Genus *Pseudopanolis* INABA, 1927
 341 *Pseudopanolis puengeleri* (STANFUS, 1912)
 Genus *Panolis* HÜBNER, [1821]
 342 *Panolis flammea* ([DENIS & SCHIFFERMÜLLER, 1775])

- Tribe **Glottulini** GUENÉE, 1852
 Genus *Xanthopastis* HÜBNER, [1821]
 343 *Xanthopastis crini* (FABRICIUS, 1775) comb. nov.
 Genus *Polytelodes* HAMPSON, 1905
 344 *Polytelodes florifera* (WALKER, 1858)
 Genus *Polytela* GUENÉE, 1852
 345 *Polytela cliens* (FELDER & ROGENHOFER, 1874)
 Genus *Diaphone* HÜBNER, 1820
 346 *Diaphone eumela eumela* (STOLL, 1782)
 346 *Diaphone eumela fasciola* subsp. nov. HACKER & ZILLI
 347 *Diaphone praetermissa* spec. nov. HACKER & ZILLI
 348 *Diaphone mossambicensis* HOPFFER, 1862
 349 *Diaphone delamarei* VIETTE, [1963]
 350 *Diaphone angolensis* WEYMER, 1901
 351 *Diaphone evidens* (GUERIN-MÉNEVILLE, [1832])
 352 *Diaphone rungsi rungsi* LAPORTE, 1973
 352 *Diaphone rungsi eburnea* subsp. nov. HACKER & ZILLI
 353 *Diaphone niveiplaga* CARCASSON, 1965
 354 *Diaphone lampira* KARSCH, 1894
 Genus *Capillamentum* PINHEY, 1956
 355 *Capillamentum nigrofasciatum* PINHEY, 1956
 356 *Capillamentum galleyi* LAPORTE, 1984

- Tribe **Leucaniini** GUENÉE, 1837
 Genus *Leucania* OCHSENHEIMER, 1816
 Subgenus *Leucania* OCHSENHEIMER, 1816
 357 *Leucania (Leucania) fortunata* (PINKER, 1961)
 358 *Leucania (Leucania) putrescens* (HÜBNER, [1824])
 359 *Leucania (Leucania) punctosa punctosa* (TREITSCHKE, 1825)
 359 *Leucania (Leucania) punctosa canariensis* REBEL, 1894
 360 *Leucania (Leucania) palaestinae* STAUDINGER, 1897
 361 *Leucania (Leucania) joannisi* BOURSIN & RUNGS, 1952
 362 *Leucania (Leucania) zeae* (DUPONCHEL, 1827)
 363 *Leucania (Leucania) atrinota* (HAMPSON, 1905)
 364 *Leucania (Leucania) albimacula* (GAEDE, 1916)
 365 *Leucania (Leucania) politzari* spec. nov. HACKER & ZILLI
 366 *Leucania (Leucania) fuscomaculata* spec. nov. HACKER & ZILLI
 367 *Leucania (Leucania) nanodes* spec. nov. HACKER & ZILLI
 368 *Leucania (Leucania) peregrina* spec. nov. HACKER & ZILLI
 369 *Leucania (Leucania) pinna* SAALMÜLLER, 1891
 370 *Leucania (Leucania) phaea* HAMPSON, 1902
 371 *Leucania (Leucania) bertha bertha* (SCHAUS, 1893)
 371 *Leucania (Leucania) bertha acrapex* (HAMPSON, 1905)
 372 *Leucania (Leucania) subacrapex* (BERIO, 1974) nomen dubium
 374 *Leucania (Leucania) harundinosa* spec. nov. HACKER
 375 *Leucania (Leucania) nonagriona* spec. nov. HACKER & ZILLI
 376 *Leucania (Leucania) ruptilinea* (WALKER, 1857)
 376.1 *Leucania (Leucania) reticulata* BERIO, 1962
 377 *Leucania (Leucania) exclamans* BERIO, 1973
 378 *Leucania (Leucania) exclamationis* spec. nov. HACKER & ZILLI
 379 *Leucania (Leucania) respersa* BERIO, 1974
 380 *Leucania (Leucania) fissifascia* HAMPSON, 1907

- 381 *Leucania (Leucania) longipennis* (HAMPSON, 1905)
 382 *Leucania (Leucania) platyodea* spec. nov. HACKER & LEGRAIN
 383 *Leucania (Leucania) polysticha* TURNER, 1912
 384 *Leucania (Leucania) patrizii* (BERIO, 1935)

Leucania murcida (WALLENGREN, 1875)

Leucania incompleta (BERIO, 1970)

 Subgenus *Iceleucania* HREBLAY & LEGRAIN, 2023
 385 *Leucania (Iceleucania) melanostrota melanostrota* (HAMPSON, 1905)
 385 *Leucania (Iceleucania) melanostrota paurostrota* subspec. nov. HACKER & ZILLI
 386 *Leucania (Iceleucania) miasticta* (HAMPSON, 1918)
 387 *Leucania (Iceleucania) perlucidans* spec. nov. HACKER & ZILLI
 388 *Leucania (Iceleucania) perleucanoides* spec. nov. HACKER & ZILLI
 388.1 *Leucania (Iceleucania) perleuca* spec. nov. HACKER, FIEBIG & STADIE

 Subgenus *Boursinania* RUNGS, 1955
 389 *Leucania (Boursinania) insulicola* GUENÉE, 1852
 390 *Leucania (Boursinania) punctulata* WALLENGREN, 1856
 391 *Leucania (Boursinania) perstriata* (HAMPSON, 1909)

 Subgenus *Acantholeucania* RUNGS, 1953
 392 *Leucania (Acantholeucania) loreyi* (DUPONCHEL, 1827)
 393 *Leucania (Acantholeucania) curvula* WALKER, 1856
 394 *Leucania (Acantholeucania) ptyonophora* (HAMPSON, 1905)

 Subgenus *Pseudaletia* FRANCLEMONT, 1951
 395 *Mythimna (Pseudaletia) unipuncta* (HAWORTH, 1809)

 Subgenus *Aletia* HÜBNER, [1821]
 396 *Mythimna (Aletia) vitellina* (HÜBNER, [1808])
 397 *Mythimna (Aletia) albipuncta* ([DENIS & SCHIFFERMÜLLER, 1775])
 398 *Mythimna (Aletia) ferrago ferrago* (FABRICIUS, 1787)
 399 *Mythimna (Aletia) litoralis* (CURTIS, 1827)
 400 *Mythimna (Aletia) congrua* (HÜBNER, [1817])
 401 *Mythimna (Aletia) algerica* (OBERTHÜR, 1918)
 402 *Mythimna (Aletia) pyrausta* (HAMPSON, 1913)
 403 *Mythimna (Aletia) nebulosa* (HAMPSON, 1902)
 403.1 *Mythimna (Aletia) bonga* spec. nov. HACKER, FIEBIG & STADIE
 403.2 *Mythimna (Aletia) tinctoidea* spec. nov. HACKER
 404 *Mythimna (Aletia) tincta* (WALKER, 1858)
 405 *Mythimna (Aletia) hypocapna* (de JOANNIS, 1932)
 406 *Mythimna (Aletia) longivittata* (BERIO, 1940)
 407 *Mythimna (Aletia) octogesima* WILTSHIRE, 1982
 408 *Mythimna (Aletia) laevusta* BERIO, 1955
 409 *Mythimna (Aletia) usta usta* (HAMPSON, 1902)
 409 *Mythimna (Aletia) usta septentrionalis* subspec. nov. HACKER
 410 *Mythimna (Aletia) heterotaxa* spec. nov. HACKER, FIEBIG & STADIE
 411 *Mythimna (Aletia) leucaniata* spec. nov. HACKER & SCHREIER
 412 *Mythimna (Aletia) clandestina* spec. nov. HACKER & ZILLI
 413 *Mythimna (Aletia) behouneki* spec. nov. HACKER
 414 *Mythimna (Aletia) dyssymmetrica* spec. nov. HACKER & ZILLI
 415 *Mythimna (Aletia) griseofusca* spec. nov. HACKER, FIEBIG & STADIE
 416 *Mythimna (Aletia) umbriger* (SAALMÜLLER, 1891)
 417 *Mythimna (Aletia) ankaratra* RUNGS, [1956]
 418 *Mythimna (Aletia) lunulata* (GAEDE, 1916)
 419 *Mythimna (Aletia) sublunula* spec. nov. HACKER & ZILLI
 420 *Mythimna (Aletia) aenictopa* D. S. FLETCHER, 1961
 421 *Mythimna (Aletia) persecta* (HAMPSON, 1905)
 422 *Mythimna (Aletia) elisa* BERIO, 1962
 423 *Mythimna (Aletia) nigrisparsa* (HAMPSON, 1902)
 423.1 *Mythimna (Aletia) ampliata* spec. nov. HACKER
 424 *Mythimna (Aletia) archanara* spec. nov. HACKER & ZILLI
 425 *Mythimna (Aletia) straminicola* spec. nov. HACKER & ZILLI
 426 *Mythimna (Aletia) archanaroides* spec. nov. HACKER & ZILLI

- 427 *Mythimna (Aletia) tacuna* (FELDER & ROGENHOFER, 1874)
 428 *Mythimna (Aletia) substituta* (WALLENGREN, 1875)
 429 *Mythimna (Aletia) germanae* LAPORTE, 1991
 430 *Mythimna (Aletia) melianoides* (MÖSCHLER, 1884)
 431 *Mythimna (Aletia) pseudotacuna* BERIO, 1962
 432 *Mythimna (Aletia) cohaesa* spec. nov. HACKER
 433 *Mythimna (Aletia) nimba* spec. nov. HACKER
 434 *Mythimna (Aletia) difficillima* spec. nov. HACKER & ZILLI
 435 *Mythimna (Aletia) bisetulata* (BERIO, 1940)
 436 *Mythimna (Aletia) pallidivena* spec. nov. HACKER & ZILLI
 437 *Mythimna (Aletia) pallidivenata* spec. nov. HACKER & ZILLI
 438 *Mythimna (Aletia) pararchanara* spec. nov. HACKER & ZILLI
 439 *Mythimna (Aletia) flavalba flavalba* BERIO, 1970
 439 *Mythimna (Aletia) flavalba strutzbergi* subspec. nov. HACKER, FIEBIG & STADIE
 440 *Mythimna (Aletia) viettei* RUNGS, [1956]
 441 *Mythimna (Aletia) l-album* (LINNAEUS, 1767)
 442 *Mythimna (Aletia) diopis* (HAMPSON, 1905)
 443 *Mythimna (Aletia) operosa* (SAALMÜLLER, 1891)
 444 *Mythimna (Aletia) panarista* D. S. FLETCHER, 1963
 445 *Mythimna (Aletia) rufescens* (GAEDE, 1916)
 446 *Mythimna (Aletia) vuattouxi* LAPORTE, 1973
 447 *Mythimna (Aletia) rubrescens* (HAMPSON, 1905)
 448 *Mythimna (Aletia) rosescens* (HAMPSON, 1910)
 449 *Mythimna (Aletia) interciliata* (HAMPSON, 1902)
 450 *Mythimna (Aletia) sarca* (HAMPSON, 1902)
 451 *Mythimna (Aletia) angustipennis* (SAALMÜLLER, 1891)
 452 *Mythimna (Aletia) duplex* RUNGS, [1956]
 453 *Mythimna (Aletia) heimi* RUNGS, [1956]
 454 *Mythimna (Aletia) infrargyrea* (SAALMÜLLER, 1891)
 455 *Mythimna (Aletia) phaeochroa* (HAMPSON, 1905)
 456 *Mythimna (Aletia) internata* (MÖSCHLER, 1884)
 457 *Mythimna (Aletia) leucogramma* (HAMPSON, 1905)
 458 *Mythimna (Aletia) ustata* (HAMPSON, 1907)
 459 *Mythimna (Aletia) apparata* (WALLENGREN, 1875)
 460 *Mythimna (Aletia) pyrostrota* (HAMPSON, 1907)
 461 *Mythimna (Aletia) pseudostrota* spec. nov. HACKER & BEHOUNEK
 462 *Mythimna (Aletia) inangulata* (GAEDE, 1934)
 463 *Mythimna (Aletia) acutangulata* (GAEDE, 1916)
 464 *Mythimna (Aletia) pseudamlaki* spec. nov. HACKER & ZILLI
 465 *Mythimna (Aletia) afroalpina* spec. nov. HACKER, FIEBIG & STADIE
 466 *Mythimna (Aletia) indecora* spec. nov. HACKER & ZILLI
 467 *Mythimna (Aletia) subdecora* spec. nov. HACKER, FIEBIG & STADIE
 468 *Mythimna (Aletia) subargyrina* spec. nov. HACKER & ZILLI
 469 *Mythimna (Aletia) parastrota* spec. nov. HACKER, FIEBIG & STADIE
 470 *Mythimna (Aletia) ochrostrota* spec. nov. HACKER & ZILLI
 471 *Mythimna (Aletia) corax* KRÜGER, 2005
 472 *Mythimna (Aletia) semicorax* KRÜGER, 2005
 473 *Mythimna (Aletia) mamohau* KRÜGER, 2005
 474 *Mythimna (Aletia) griveaudi* (VIETTE, [1979])
 475 *Mythimna (Aletia) metasarca* (HAMPSON, 1907)
 476 *Mythimna (Aletia) arcuata* (BERIO, 1970)
 478 *Mythimna (Aletia) evoei* LAPORTE, 1974
 479 *Mythimna (Aletia) aarviki* spec. nov. HACKER & LEGRAIN
 480 *Mythimna (Aletia) herbuloti* (VIETTE, 1961)
 481 *Mythimna (Aletia) fallaciosa* (RUNGS, [1956])
 482 *Mythimna (Aletia) circulus* (SAALMÜLLER, 1880)
 483 *Mythimna (Aletia) brantsii* (SNELLEN, 1872)
 484 *Mythimna (Aletia) oblita* spec. nov. HACKER & ZILLI

Subgenus *Sablia* SUKHAREVA, 1973

485 *Mythimna* (*Sablia*) *sicula* (TREITSCHKE, 1835)

486 *Mythimna* (*Sablia*) *saucosa* PINKER, 1963

487 *Mythimna* (*Sablia*) *serradague* WOLFF, 1977

488 *Mythimna* (*Sablia*) *hamata* (WALLENGREN, 1856)

489 *Mythimna* (*Sablia*) *citrinotata* (HAMPSON, 1905)

Mythimna (*Sablia*) *brandti* BOURSIN, 1963

Subgenus *Prodigithymna* HREBLAY, 2002

490 *Mythimna* (*Prodigithymna*) *prominens* (WALKER, 1856)

Genus *Morphopoliana* HREBLAY & LEGRAIN, 1996

491 *Morphopoliana vilis* (GAEDE, 1916)

492 *Morphopoliana combinata* (WALKER, [1857])

493 *Morphopoliana caelebs caelebs* (GRÜNBERG, 1910)

493 *Morphopoliana caelebs seorsa* subspec. nov. HACKER & ZILLI

494 *Morphopoliana bicristata* (BERIO, 1939)

495 *Morphopoliana larseni* (WILTSHIRE, 1985)

496 *Morphopoliana languida* (WALKER, 1858)

497 *Morphopoliana sokotrensis* (HREBLAY, 1996)

498 *Morphopoliana madensis* (BERIO, [1956])

499 *Morphopoliana borbonensis* (GUILLERMET, 1996)

500 *Morphopoliana natalensis* (BUTLER, 1875)

501 *Morphopoliana graditorialis* (BERIO, 1970)

502 *Morphopoliana montigena* (HREBLAY & LEGRAIN, 1996)

503 *Morphopoliana altiphila* (HREBLAY & LEGRAIN, 1996)

504 *Morphopoliana atritorna* (HAMPSON, 1911)

505 *Morphopoliana rufulosa* (WILTSHIRE, 1986)

506 *Morphopoliana poliastris poliastris* (HAMPSON, 1902)

506 *Morphopoliana poliastris capensis* (STRAND, 1916)

507 *Morphopoliana baronensis* spec. nov. HACKER

Genus *Anapoma* BERIO, 1980

508 *Anapoma polyrabda* (HAMPSON, 1905)

509 *Anapoma simillima* spec. nov. HACKER & ZILLI

510 *Anapoma abyssina* spec. nov. HACKER, FIEBIG & STADIE

511 *Anapoma simplex* spec. nov. HACKER

512 *Anapoma mvakoumelensis* (LAPORTE, 1973)

513 *Anapoma milloti* (RUNGS, [1956])

Genus *Vietteania* RUNGS, 1955

Subgenus *Vietteania* RUNGS, 1955

514 *Vietteania* (*Vietteania*) *torrentium* (GUENÉE, 1852)

515 *Vietteania* (*Vietteania*) *intestata* (WALKER, 1856)

516 *Vietteania* (*Vietteania*) *longirostris* (BERIO, 1940)

517 *Vietteania* (*Vietteania*) *musakensis* (LAPORTE, 1977)

518 *Vietteania* (*Vietteania*) *amens* (GUENÉE, 1852)

519 *Vietteania* (*Vietteania*) *hausmanni* spec. nov. HACKER

520 *Vietteania* (*Vietteania*) *karoensis* spec. nov. HACKER

521 *Vietteania* (*Vietteania*) *lenzi* spec. nov. HACKER

522 *Vietteania* (*Vietteania*) *catadela* D. S. FLETCHER, 1961

523 *Vietteania* (*Vietteania*) *aethiopica* (LAPORTE, 1974)

524 *Vietteania* (*Vietteania*) *affinis* (WARNECKE, 1929)

525 *Vietteania* (*Vietteania*) *diffinis* spec. nov. HACKER, FIEBIG & STADIE

526 *Vietteania* (*Vietteania*) *amlaki* (LAPORTE, 1984)

Subgenus *Ophidianeana* subgen. nov. HACKER

527 *Vietteania* (*Ophidianeana*) *terminata* spec. nov. HACKER

528 *Vietteania* (*Ophidianeana*) *stenotrachela* spec. nov. HACKER

529 *Vietteania* (*Ophidianeana*) *mambillana* spec. nov. HACKER



Figure 3. Biogeographical units of Africa

Biogeographical units of Africa, overview

1) Mediterranean Forest, Woodland and Scrub Zone

1a) Mediterranean Woodlands and Scrub

1b) Mediterranean Dry Woodlands and Scrub

Nile Delta

1c) Mediterranean *Acacia-Argania* Dry Woodlands and Thickets

1d) Woodlands of the Canary Islands and Madeira

2) Mediterranean Montane Juniper Steppe and Woodland Zone

2a) Mediterranean High Atlas Juniper Steppe

2b) Mediterranean Conifer and Mixed Forests

3) Sahara Desert and Saharan Steppe Zone

3a) Sahara Desert

3b) North Saharan Steppe

3c) South Saharan Steppe

3d) Atlantic Coastal Desert

3e) West Saharan Montane Xeric Woodlands

3f) Tibesti-Jebel Uweinat Montane Xeric Woodlands

3g) Red Sea Coastal Desert

3h) East Saharan Montane Xeric Woodlands

3i) Saharan Halophytics

4) Sahelian Savanna Zone

4a) Sahelian *Acacia* Savanna

Chad Lake

Inner Niger Delta

4b) West Sudanian Savanna

4c) East Sudanian Savanna

Upper Nile Flooded Grassland

5) Somalian Xeric Bushland and Shrubland Zone

5a) Somalian Xeric Bushlands and Shrublands

5b) Masai Xeric Grasslands and Shrublands

5c) Northern *Acacia-Commiphora* Bushlands and Thickets

5d) Southern *Acacia-Commiphora* Bushlands and Thickets

Serengeti Volcanic Grassland

5e) Ethiopian Xeric Grasslands and Shrublands

5f) Hobyo Grasslands and Shrublands

5g) Somali Montane Xeric Woodlands

6) Westafrican-Guinean Forest Zone

6a) West Guinean Lowland Forests

6b) Eastern Guinean Lowland Forests

6c) Guinean Montane Forests

6d) Nigerian Lowland Forests

6e) Niger Delta Swamp Forests

6f) Cross-Niger Transition Forests

6g) Guinean Forest-Savanna Mosaic

6h) Cape Verde Islands Dry Forests

6i) Jos Plateau Forest Grassland

Mandara Plateau

7) Guinean and Central African Mangrove Zone

8) West Central African Montane Zone

8a) Cameroon Highland Forests

8b) Mount Cameroon and Bioko Forests

9) Sao Tomé & Príncipe Island Moist Forest Zone

10) Congolian Lowland Forests Zone

10a) Central Congolian Lowland Forests

10b) Northeastern Congolian Lowland Forests

10c) Eastern and Western Congolian Swamp Forests

10d) Northwestern Congolian Lowland Forests

10e) Atlantic Equatorial Coastal Forests

10f) Cross-Sanaga-Bioko Coastal Forests

10g) Northern Congolian Forest-Savanna Mosaic

10h) Southern Congolian Forest-Savanna Mosaic

10i) Western Congolian Forest-Savanna Mosaic

10j) Angolian Scarp Savanna and Woodlands

11) Ethiopian Montane Forest and Alpine Moorland Zone

11a) Ethiopian Lower Montane Forests, Woodlands, and Bushlands

11b) Ethiopian Upper Montane Forest, Woodlands, Bushlands, and Grasslands

11c) Ethiopian Montane Moorlands

12) Albertine Rift Montane Forest and Alpine Moorland Zone

12a) Albertine Rift Montane Zone

12b) Ruwenzori-Virunga Alpine Moorlands

13) Eastern Rift Forest and Alpine Moorland Zone

13a) Victoria Basin Forest-Savanna Mosaic

13b) East African Montane Forests

13c) East African Alpine Moorlands

13d) Eastern Arc Forests

13e) Southern Rift Montane Forest-Grassland Mosaic

13f) South Malawi Montane Forest-Grassland Mosaic

14) South-Central African Miombo and Mopane Woodland Zone

14a) Central Zambezian Miombo Woodlands

Itigi-Sumbu Thickets

14b) Eastern Miombo Woodlands

14c) Angolian Miombo Woodlands

14d) Southern Miombo Woodlands

14e) Zambezian and Mopane Woodlands

Zambezian Flooded Grassland

14f) Western Zambezian Grasslands

14g) Zambezian *Cryptosepalum* Dry Forest

14h) Angolian Mopane Woodlands

Etosha Pan

14i) Zambezian *Baikiaea* Woodlands

14j) Kalahari *Acacia* Woodland

Okavango Inner Delta

Makgadikgadi Halophytics

14k) Southern Africa Bushveld

15) East and South African Coastal Forest Zone

15a) Northern Zanzibar-Inhambane Coastal Forest Mosaic

15b) Southern Zanzibar-Inhambane Coastal Forest Mosaic

15c) Matupaland Coastal Forest Mosaic

Matupaland-Pondoland Bushland and Thickets

Albany Thicket

15d) KwaZulu-Cape Coastal Forest Mosaic

15e) Knysna-Amatole Montane Forests

16) East and South African Mangrove Zone

17) Angolian Montane and Forest-Grassland Zone

18) South African Desert, Xeric Savanna and Woodland Zone

18a) Namib Desert

18b) Kaokoveld Desert

18c) Namib Escarpment Woodland

18d) Kalahari Xeric Savanna

18e) Nama Karoo

18f) Succulent Karoo

19) South African Montane and Alpine Grassland and Woodland Zone

19a) Highveld Grasslands

19b) Drakensberg Montane Grasslands, Woodlands, and Forests

19c) Eastern Zimbabwe Montane Forest-Grassland Mosaic

19d) Drakensberg Alpine Grasslands and Woodlands

20) Cape-Mediterranean Zone

20a) Lowland Fynbos and Renosterveld

20b) Montane Fynbos and Renosterveld

21) Madagascar Humid and Subhumid Forest Zone

21a) Madagascar Humid Forests

21b) Madagascar Subhumid Forests

Madagascan Ericoid Thickets

22) Madagascar Dry Forest Zone

22a) Madagascar Dry Deciduous Forests

22b) Madagascar Mangroves

23) Madagascar Succulent Woodland Zone

23a) Madagascar Succulent Woodlands

23b) Madagascar Spiny Thickets

24) Mascarene Islands Forest Zone

25) Comores Forest Zone

26) Aldabra Island Xeric Shrub Zone

27) Seychelles Granite Forest Zone

28) Socotra Island Xeric Shrublands Zone

29) St. Helena Scrub Zone