

Esperiana Memoir Band 6

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Abstract

The Lepidoptera fauna of southwestern Africa, - the land between southern Angola and Cape Town, - is dominated by groups adapted to arid and semiarid conditions. Many genera and species are found nowhere else in Africa, and this high endemism mirrors the unique vegetation of the occurring Desert, Nama Karoo, Succulent Karoo, Fynbos and dry Savanna biomes. Based on intensive field work over several years this book provides an introduction to the Lepidoptera fauna in this part of Africa, encompassing all families. After a method chapter including a list of visited localities a short description of environmental conditions in the study area is presented. Light trap samples from 36 localities were analysed which form the basis for discussing general features of the fauna, e.g. α -diversity, taxonomic composition, distribution, seasonality, endemism, biogeography, etc. In a taxonomic chapter a total of 118 new species are described, almost all of them are locally abundant. Thirteen new genera are established in the families Psychidae, Plutellidae, Gelechiidae, Pyralidae, Crambidae and Noctuidae. Morphological characters (e.g. genitalia, wing venation, head architecture) are illustrated including photos of the adult moths presented on 15 colour plates.

Synopsis of the species and genera described or commented

Hepialidae

Gorgopis angustiptera (Janse, 1948),
Gorgopis limbopunctata (Gaede, 1930)

Acanthopteroctetidae

Acanthopteroctetes nepticuloides spec. nov.

Cecidosidae

Scyrotis natalensis spec. nov.

Adelidae

Adela siccana spec. nov.
Adela culminicola spec. nov.
Ceromitia okatjikona spec. nov.
Ceromitia jamaka spec. nov.

Heliozelidae

Antispilina varii spec. nov.

Eriocottidae

Compsoctena kaokoveldi spec. nov.
Cathalisticus secularis (Meyrick, 1918), comb. nov.
Cathalisticus bispinosa spec. nov.
Picrospora oreotrepes spec. nov.
Picrospora achlyota (Meyrick, 1912)

Psychidae

Picronarycia gen. nov.
Picronarycia transversa spec. nov.
Picronarycia richtersveldicola spec. nov.
Picronarycia deserta spec. nov.
Picronarycia karioscola spec. nov.
Picronarycia maculasquamosa (Sobczyk & Mey, 2007), comb. nov.
Picronarycia antibatis (Meyrick, 1926), comb. nov.
Placodoma vista spec. nov.

Lytrophila gracilis spec. nov.
Lasioctena bonapropecti spec. nov.

Tineidae

Glaucostolella oxyteles (Meyrick, 1926)
Rhodobates mirabilis spec. nov.
Nyctocymata numeesia spec. nov.
Scalmatica gnathosella spec. nov.
Scalmatica saccusella spec. nov.
Perissomastix peltiger spec. nov.
Edosa namakwana spec. nov.
Pseudurgis group
Kariosa gen. nov.
Kariosa autumnaria spec. nov.
Kariosa albulata spec. nov.
Pseudurgis karoo spec. nov.
Pseudurgis mollis spec. nov.
Pseudurgis minorata spec. nov.
Pseudurgis vernalis spec. nov.
Pseudurgis acosmetos spec. nov.
Pseudurgis tineiformis spec. nov.

Bucculatricidae

Bucculatrix khomasi spec. nov.
Bucculatrix wittnebeni Mey, 2004
Bucculatrix inchoata Meyrick, 1913

Yponomeutidae

Zelleria namibiensis spec. nov.

Plutellidae

Baerenschenkia gen. nov.
Baerenschenkia umtrunkula spec. nov.
Paraxenistis macrostoma Meyrick, 1919
Deryaxenistis gen. nov.
Deryaxenistis serrata (Mey, 2007), comb. nov.

Lyonetidae

Phyllobrostis peninsulanae spec. nov.

Galacticidae

Homadaula wieseri spec. nov.

Oecophoridae

Pelochares palpata spec. nov.

Elachistidae

Perittia eselkopensis spec. nov.

Coleophoridae

Coleophora mirabilis spec. nov.

Scythrididae

Scythris vogelfederbergensis spec. nov.

Ethmiidae

Ethmia namella spec. nov.
Ethmia austronamibiensis spec. nov.

Xyloryctidae

Eporycta lurida spec. nov.

Pterolonchidae

Plexippica verberata Meyrick, 1912
Plexippica fuscinervosa spec. nov.

Autostichidae

Morotripta fatigata Meyrick, 1917
Morotripta argillacea spec. nov.

Batrachedridae

Enscepastra curvipalpata spec. nov.
Enscepastra recurvata spec. nov.
Enscepastra acutissima spec. nov.
Enscepastra cygnica spec. nov.
Enscepastra scolopaxica spec. nov.

Gelechiidae

Namatetris gen. nov.
Namatetris rhinoceros spec. nov.
Pyncostola grandicornuta spec. nov.
Polyhymno paraintortoides spec. nov.
Stegasta sattleri spec. nov.
Khoisa gen. nov.
Khoisa panuala (Meyrick, 1909)
Khoisa epicentra (Meyrick, 1909)
Istrianis fynbosella spec. nov.
Afrotelphusa gen. nov.
Afrotelphusa accensa (Meyrick, 1921) comb. nov.
Benguelasa gen. nov.
Benguelasa major spec. nov.

Benguelasa minor spec. nov.
Ephysteris gondwana spec. nov.
Ephysteris gobabebensis spec. nov.
Scrobipalpa meridioafricana spec. nov.
Scrobipalpa brandbergensis spec. nov.
Scrobipalpa swakopi spec. nov.
Sitotroga exquisita spec. nov.
Lacistodes fuscomaculata spec. nov.
Aspades luteomaculata spec. nov.
Dactylethrella leuconota spec. nov.

Brachodidae

Nigilgia eucallynta (Meyrick, 1937)

Pyralidae

Galleriinae

Paroxyptera hererofiliella spec. nov.

Pyralinae

Hypotia brandbergensis Leraut, 2004
Hypotia bolinalis (Walker, 1859)
Hypotia namaensis spec. nov.
Hypotia pronamibiella spec. nov.
Hypotia juergensi spec. nov.
Hypotia namaquensis spec. nov.
Hypotia quagga spec. nov.
Hypotia deckerti spec. nov.
Hypotia faucis spec. nov.
Triphassa argentea spec. nov.
Actenia fuscoserata spec. nov.
Actenia dirempta spec. nov.

Epipaschiinae

Isolopha magna spec. nov.
Otjipagapaga gen. nov.
Otjipagapaga prima spec. nov.
Otjipagapaga secundaria spec. nov.
Otjipagapaga dentilinealis (Hampson, 1906), comb. nov.
Salma gamsbergpastalis spec. nov.
Salma mombopastalis spec. nov.
Flotschapa gen. nov.
Flotschapa rhynchopalpata spec. nov.

Phycitinae

Merulempista colorata spec. nov.
Sclerobia triangulata spec. nov.
Gaana nigronevosa spec. nov.
Elegia inconspicua (Ragonot, 1888)
Namibicola karios spec. nov.
Namibicola palmwagos spec. nov.
Pogononeura hirticostella Ragonot, 1888
Pogonotropha dicksoni spec. nov.

Crambidae

Crambinae

Surattha luteola spec. nov.
Surratha africalis Hampson, 1919
Prionapteryx splendida spec. nov.
Prionapteryx amathusia spec. nov.
Parancylolomia gen. nov.
Parancylolomia relicta spec. nov.
Glaucocharis maculosa spec. nov.
Crambus proteus spec. nov.
Coniesta williami (de Joannis, 1926) [Diatraea], comb. nov.

Acentropinae

Eoophyla assegaia spec. nov.
Eoophyla munroei spec. nov.

Cybalomiinae

Hyperlais xanthomista spec. nov.
Hyperlais conspersalis spec. nov.
Hyperlais transversalis spec. nov.
Hyperlais squamosa (Hampson, 1913)
Crambicybalomia gen. nov.
Crambicybalomia ariditatis spec. nov.
Ptychopseustis lucipara spec. nov.
Ptychopseustis schmitzi spec. nov.
Odontiinae
Autocharis arida Maes & Mey spec. nov.

Emprepes maesi spec. nov.
Tegostoma aridalis spec. nov.
Pyraustinae
Metasia grootbergensis spec. nov.

Metarbelidae

Teragra macroptera spec. nov.
Teragra punctana spec. nov.
Arbelodes shimonii Lehmann, 2010
Arbelodes franziskae Lehmann, 2010
Salagena albovenosa spec. nov.

Limacodidae

Unithosea gainsfordi spec. nov.
Astatophebia austera spec. nov.

Noctuidae

Acontia okra spec. nov.
Escarpamenta gen. nov.
Escarpamenta damarana spec. nov.
Eustrotia luteocapitata spec. nov.
Ozarba himbana spec. nov.
Ozarba fuscata spec. nov.
Ozarba schmiedelae spec. nov.
Ozarba topnaari spec. nov.
Thiacides khomasana spec. nov.