

BOOK REVIEW: ASANTE SANA

- Title** The Lepidoptera fauna of a crater valley in the Great Escarpment of South Africa: The Asante Sana Project.
- Publisher** Hermann H. Hacker, Jahnstraße, 96231, Bad Staffelstein, Germany.
- Journal** *Esperiana* (2019) Memoir 8: 5–550.
- Editors** Wolfram Mey and the late Martin Krüger.
- Summary** This excellent publication is important for all students of Karoo Lepidoptera. It is the first of two books, and covers about half of the lepidopteran families recorded at Asante Sana. 124 new species are described by world renowned experts on Afrotropical Lepidoptera.

Contents

- 1) Foreword: Wolfram Mey 6
- The Asante Sana Project was a research collaboration between the Museum für Naturkunde, Berlin and the Ditsong National Museum of Natural History, Pretoria, and resulted in the first all taxa inventory of Lepidoptera on a local scale in South Africa. All available specialists for the various families were invited or co-opted onto the project, and their scope included specimen preparation, analysis and descriptions. This first publication on the project covers about half of the families and subfamilies encountered, and a second volume will follow in a few years' time. Tribute is paid to the role played by the late Martin Krüger, and the book is dedicated to his memory.
- 2) Introduction: Wolfram Mey & Martin Krüger[†] 7–24
- The origin of the project is described and preliminary visits to the study area in the eastern Sneeuwberg led to a clear definition of the project's scope. A wider area of study was originally contemplated but it was eventually decided to concentrate on the lepidopteran fauna of the private game farm Asante Sana (12 000 ha). It was also decided that all Lepidoptera would be studied, even taxa that were relatively unstudied and poorly known. The duration of the project was 15 years.
- The study area is described and aspects covered are geomorphology, hydrology, geology, climatic conditions, vegetation and historical land-use. The collection sites and dates are then documented. Materials and methods included automatic light traps, light towers, and 160 W bulbs at night; and use of hand nets during the day. The aim was to maximise the yield rather than to make any ecological or biodiversity generalisations. The processing, deposition and curation of the collected material is briefly outlined, and a summary tabulation of the material collected by family and subfamily presented.
- 3) Vegetation: V. Ralph Clark & Joao D. Vidal 25–38
- The principal author of this chapter conducted extensive botanical exploration at Asante Sana from 2005 to 2017 and recorded 575 plant species (48% of the total known Sneeuwberg flora). 19 local and regional mountain endemics have been recorded at Asante Sana, of which six are endemics new to science. The vegetation comprises four Biomes (Albany Thicket, Grassland, Nama–Karoo and Azonal) with six recognised and six putative new vegetation types. Non-native and invasive species are also covered, with some serious problems being caused by an invasive South American cactus in the lowlands and in the montane areas *Nasselia trichotoma* (serrated tussock grass), which not only threatens biodiversity but also livelihoods where it takes over from palatable native grasses.
- 4) Description of the lepidopteran fauna:
- Each chapter includes an introduction, biology, taxonomy, (material) & methods, (results), species review (treatments), discussion, acknowledgements, tabulations, references (literature) and illustrations. A total of 124 new species are described, and four new genera erected. The colour plates include photos of adult moths and genitalia dissections

Families, subfamilies	Author	Pages
Hepialidae:	Wolfram Mey	39–48
Nepticulidae:	Erik J. van Nieukerken	49–84
Tischeriidae:	Jonas R. Stonis, Arūnas Diskus & Wolfram Mey	85–98



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Cecidosiidae, Adelidae:	Wolfram Mey	99–118
Eriocottidae:	Wolfram Mey & Thomas Sobczyk	119–124
Psychidae:	Thomas Sobczyk	125–156
Dryadaulidae, Tineidae:	Wolfram Mey	157–176
Gracillariidae:	Paolo Triberti	177–188
Bucculatricidae:	Wolfram Mey	189–200
Yponomeutidae, Plutellidae:	David Agassiz	201–206
Lyonetiidae, Bedelliidae:	Wolfram Mey	207–212
Elachistidae:	Lauri Kaila	213–216
Coleophoridae:	Giorgio Baldizzone	217–250
Scythrididae:	Bengt Å Bengtsson	251–256
Gelechiidae:	Oleksiy V. Bidzilya	257–294
Carposinidae:	Wolfram Mey	295–298
Crambinae:	Graziano Bassi	299–312
Tortricidae:	Leif Aarvik	313–348
Lacturidae:	Wolfram Mey	349–356
Cossidae, Metarbelidae:	Wolfram Mey	357–364
Geometridae:	Martin Krüger	365–410
Erebidae: Thyritini:	Lukasz Przybylowicz	411–414
Erebidae: Lithosiini:	Martin Krüger	415–428
Erebidae: Nolidae, Noctuidae:	Hermann H. Hacker	429–537