

# **BUTTERFLIES AS AN INDICATOR GROUP FOR THE CONSERVATION VALUE OF THE GOLA FORESTS IN SIERRA LEONE**

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## **EXECUTIVE SUMMARY**

Less than 5% of Sierra Leone's original forest cover still exists, though some of that hardly merits the term forest. Besides the remaining forest on the Freetown Peninsula, and the important Loma and Tingi Mountains, with their submontane elements, Gola Forest is the most significant forest in the country.

During late April, 2006, a one week field-trip was made to study the butterflies of the Gola Forests by two separate teams, headed by one of the authors of this report. Belcastro also returned to Gola North for three days in early May. In all, 370 species were positively recorded. The estimated total for the area is about 600, accounting for about 80% of the 750 or so known Sierra Leone butterflies. Many rare and interesting butterflies occur and, in general, the Gola Forests are now the westernmost outpost of the West African forest fauna. Many species endemic to Africa west of the Dahomey Gap and to its Liberia subregion were found in Gola.

The fact that so many rare and interesting species were collected in, sometimes quite heavily, logged areas of Gola is a strong indicator that the forests have the capacity to return to a state that resembles the original over the next 25 years. In Gola (South), and especially in Gola (North), there appear to be areas of undisturbed forest that act as reservoirs of biodiversity that help to re-populate the regenerating parts of the forest.

The importance of the Gola Forests in the overall butterfly biodiversity of Sierra Leone can hardly be overestimated – and this would be true also for the richness of most other taxonomic groups. The role of the Gola Forests in protecting general West African endemic species, as well as those of the narrower Liberia subregion, is evident. The Gola Forests therefore play a regional and continental role in African conservation efforts that goes beyond their immediate importance for Sierra Leone.

Though this report should be adequate to characterize the butterfly fauna of Gola and its diversity, as well as highlighting the conservation value of the forests, continued collecting could soon make Gola one of the best inventoried forests in Africa as far as butterflies are concerned. Volunteers for such work, in conjunction with Gola project staff, could probably be found. The authors of this report will be able to verify subsequent identifications.

## Background

This report is a rapid review of the known butterflies from the three Gola Forests (West, East [collectively termed Gola (South)], and Gola (North)). The species composition is reviewed in relation to the total butterfly fauna of Sierra Leone (about 750 species) and is also placed in the perspective of the butterflies of West Africa as a whole. We attempt to use the data available to assess:

- the butterfly biodiversity of the Gola Forests
- the quality of the butterfly fauna in terms of rarity and endemism
- the importance of the Gola Forests in the overall butterfly biodiversity of Sierra Leone
- the importance of the Gola Forests in protecting West African endemic species
- the measures needed to protect and enhance the butterfly fauna
- the potential of a further in-depth butterfly research programme

The mission was undertaken when the Conservation Society of Sierra Leone (CSSL) and the Royal Society for the Protection of Birds (UK) (RSPB) learnt that Larsen (TBL) had been contracted to conduct a butterfly survey as part of the required World Bank environmental impact assessment programme for the Bumbuna Hydroelectric Project. When contacted by Jeremy Lindsell (RSPB), TBL volunteered to do a rapid survey of the Gola Forests in advance of his formal assignment in Bumbuna. While spending much of the years between 1993 and 2004 working on the recently published book on the butterflies of West Africa (Larsen 2005) he had been unable to make personal visits to Sierra Leone because of the civil war, having to rely instead on published data, museum/private collections, and discussions with Claudio Belcastro (CB).

When beginning discussions on the Bumbuna environmental impact assessment, TBL had contacted CB, who collected extensively in Sierra Leone from the late 1970s till today (including in Gola (North)) and who published the most recent papers on the butterfly fauna of the country (Belcastro 1986a, 1986b, 1990a, 1990b). It turned out that CB would be able to join TBL for a one-week field visit to Gola. Rather remarkably, this visit was the implementation of one originally planned for 1996: we had then agreed to do a joint study mission in Sierra Leone to provide TBL with on-the-ground experience of the country. It had to be cancelled because of the prevailing security situation. So the present survey was, in effect, a direct continuation of a joint mission that had to be abandoned ten years previously!

## The Sierra Leone forests

Without the impact of human activity two-thirds of Sierra Leone would in principle have been covered by broadleaf tropical forests. The exact extent of forest in the past is not well known but it is likely that most of the area was actually forest, with only some of it disturbed by human agricultural activities. What is known is that by 1900 the forest cover had been reduced to 20% of the total territory and that by 1935 forest cover had further shrunk to 10% (Jones 1998). Davies (1987) estimated that this percentage was now below 5%. In 1990 forest reserves and protected forests covered 3.9% of the country, but this includes areas of plantation forest and tracts where the use of the term forest is charitable at best (Jones 1998). There has been additional forest loss since 1990. It seems certain that forests now cover less than 3% of the country, representing probably no more than 5% of the original forest – and

most of this in far from pristine condition. The remaining forests are largely concentrated in the eastern and southeastern parts of the country. The Gola Forests are the major single component of remaining forest. Most of the rest survives in hilly, inaccessible country north – and west – of Gola (Loma and Tingi Mountains being especially important). One exception is the forests of the Freetown Peninsula, which now lie wholly isolated from the main remaining forests – by a distance of 200km or so. In living memory the Peninsula Mountains were covered in good forest. During the past 25 years it has been destroyed with increasing vigour. On present trends all forest might disappear from there except for that surrounding the Guma Valley, which contains the main water reservoir of Freetown, but even here illegal logging may be taking place. As far as we can see the Peninsula forests are now effectively cut off from gene-flow with the remaining forests further east and south and conservation of what remains must be a major concern. Despite their luxuriance, the overall biodiversity seems lower than in the Gola Forests.

Many of the remaining forests are still vanishing. One of the classical butterfly collecting sites was Moyamba, the type locality of many species: a Wesleyan Mission station here seems to have supplemented their income by organizing scientific collections of insects. CB spent some time around Moyamba trying to find *Mimeresia moyambina* Bethune-Baker, 1904 – an almost unknown butterfly but was unable to find any meaningful forest in the area. The Kambui Hills near Kenema were once fine forests, but are now strongly degraded and reduced in size. Kasabere Hill – which is visible for a great distance – can stand as a monument to deforestation in Sierra Leone. Just twenty-five years ago it was wholly covered in good quality forest: today all that can be seen is a few clumps of trees in steep ravines and one or two tall trees surviving on the skyline as testimony to what once was.

The forests were replaced in the south by rather amorphous farmbrush that initially retained much of the original vegetation. It used to be that farmbrush was allowed long fallow periods (fifteen years or so) that permitted much of the robust forest flora and fauna to survive, which in turn allowed for migration corridors between the remaining intact forests. Population pressure and demand for food have driven down the fallow periods to the point where the farmbrush loses all touch with the original forest species. Biodiversity has dropped by a factor of – according to the butterflies – some 80-90%, and some of the species are invasive from northern savannahs. In the northern parts of the forest zone the same pressures have resulted in the establishment of derived Guinea Savannah or transitional woodlands, with trees that are largely fireproofed, leading to a similar drop in biodiversity.

Mention should also be made of the submontane forest zone of the remote Loma and Tingi Mountains. They occur in the transition between the mid-level evergreen forests and the submontane grasslands at altitudes between 1,600 and 1,800m. This forest type has a very limited extent and is mainly found in wetter valleys extending down from the grasslands. Tree-ferns are one of the most obvious components. *Uranotauma belcastroi* Larsen, 1997 is found there, extending east to the Nimbas and to Mt. Tonkoui in Côte d'Ivoire. The submontane element west of the Nigeria/Cameroun Mountains is poorly known, yet it retains traces of the some of the most important shifts of climate in West Africa during the Pliocene and Pleistocene, perhaps as far back as the late Miocene. This tiny butterfly is a surviving witness to profound biogeographical processes.

In effect, the Gola Forests are now the westernmost bastion of the African tropical evergreen forests that stretch from Sierra Leone to Uganda, and south to Zambia and Angola. It is true that patches of forest are found further west in Sierra Leone, Guinea, and the Basse

Casamance, but these are usually small and often degraded, and possibly not sufficiently large for the maintenance of full climax forest ecosystems. The isolated forests of the Freetown Peninsula have already been mentioned.

The tropical forests further west than Freetown are rather specialized and are perhaps best considered rather isolated, outliers of the main forest zone. They are found: 1) In the lowlands of Guinea (Conakry, Dubreka, Mamou) and in the extreme west of Sierra Leone there are scattered forests. They have a lower level of overall biodiversity but have, perhaps, a higher level of endemism. 2) The forest-savannah mosaic of the Fouta Djallon contains many species of the main tropical forest bloc, but also has significant level of endemism. It is one of the most interesting, and endangered, ecosystems in West Africa. 3) Finally, some tropical forest remains in Guinea-Bissau and the Basse Casamance in Senegal. These are clearly impoverished versions of the main tropical forests, though also with some affinities to the Fouta Djallon. A major element in shaping the faunal and floral composition is the long dry season which has forced many species to adapt and change, while others that could not cope went extinct. Total biodiversity is much lower than in the Freetown Peninsula forest.

### **The Sierra Leone butterfly fauna in West African perspective**

An overview of African butterfly biogeography is given by Larsen (2005). Sierra Leone belongs to the biogeographical subregion that we prefer to call Africa west of the Dahomey Gap (also known as “Afrique Occidentale” or the Upper Guineo-Congolese). This area contains about 1,050 butterfly species (a quarter of the Afrotropical total), of which 750 occur in Sierra Leone. This includes a limited number of savannah species, but the forest butterflies are the ones that count as far as the contribution to overall West African biodiversity is concerned.

Africa west of the Dahomey Gap qualifies as a distinct biogeographical region since about 13% of all its butterfly species are not found in the forest zones area east of the Dahomey Gap and are thus endemic. A number of these endemics are distributed throughout the region, but there are at least two distinct areas of speciation within it, one centered on Sierra Leone, Liberia, and western Côte d’Ivoire (the Liberia subregion), the other being centered on eastern Côte d’Ivoire and western Ghana (the Ghana subregion). Besides butterflies, 22% of the 2,800 vascular plants found west of the Dahomey Gap are endemic according to Jongkind (2004), who also emphasizes the two main subregions. The frontier between the two lies at the Sassandra River in central Côte d’Ivoire where the West African forest bloc has certainly been cut by savannahs in what is also known as the Boucle de Boualé. Booth (1958) records that no less than six primates, as well as number of other mammals, have distinct subspecies on either side of this boundary.

A few additional sub-centres of endemism also exist. The Fouta Djallon in Guinea (sometimes also Guinea-Bissau and the Casamance) has a number of endemic forest species and subspecies that hardly extend to western Sierra Leone: but the total number of forest species is quite low, and many widespread species with a high degree of ecological tolerance are missing. This evolution is probably a response to a very long dry season that has forced butterflies to either adapt or to die out. The Nimba Mountains and their westward extension to the Loma and Tingi Mountains in Sierra Leone also have some endemism, and at their highest levels have a relict hint of the Afrotropical fauna, allied to the Nigeria/Cameroun Mountains and East Africa. One such species found on the Loma is *Uranotaenia belcastroi*

Larsen, 1997 with a very close relative in Cameroun and a slightly more distant one in East Africa. The Atewa Range in Ghana also has some endemic species (Atewa is perhaps the most important outstanding conservation priority in Ghana (Larsen 2006)).

It has even been suggested that Gola and the neighbouring parts of western Liberia might have been a separate evolutionary unit from the main Liberia subregion during parts of the Pleistocene glacial periods (Beentje *et al.* 1994), though this is dismissed by Poorter *et al.* (2004). We find it possible to sympathize with such a view but have not yet studied it in depth. The distribution of species like *Cymothoe adela* Staudinger, 1890, and *Euphaedra afzelii* Felder & Felder, 1867 – even *Euphaedra dubreka* Collins & Larsen, 2005 – lend support to such a hypothesis. However, the butterfly fauna of Liberia, and the regional distribution within that country, is still poorly known and substantiation from other taxonomic groups is also needed.

At least 17 butterfly species carry specific names referring to Sierra Leone or localities in the country: *Eurema floricola leonis* Butler, 1886; *Mimeresia moyambina* Bethune-Baker, 1904; *Falcuna leonensis* Stempffer & Bennett, 1963; *Micropentila mabangi* Bethune-Baker, 1904; *Stempfferia moyambina* Bethune-Baker, 1903; *Lipaphnaeus leonina* Sharpe, 1890; *Pseudaletis leonis* Staudinger, 1888; *Iolaus moyambina* Stempffer & Bennett, 1959; *Iolaus leonis* Riley, 1928; *Pilodeudorix leonina* Bethune-Baker, 1904; *Paradeudorix moyambina* Bethune-Baker, 1904; *Cupidesthes leonina* Bethune-Baker, 1903; *Neptis loma* Condamin, 1971; *Euriphene lomaensis* Belcastro, 1986; *Euriphene amicia gola* Fox, 1965; *Euriphene leonis* Aurivillius, 1898; and *Celaenorhinus leona* Berger, 1975.

## **The Gola Forest Conservation Concession Project (GFCCP)**

Following some years of implementing a project for the conservation of the Gola Forests, the Conservation Society of Sierra Leone (CSSL – a national NGO) and Royal Society for the Protection of Birds (RSPB – an international NGO) decided to apply for a formal concession to manage the forests as a conservation area rather than for extraction of wood and to set up a trust fund to finance conservation activities as well as benefiting villages adjacent to the forests. Appendix 1 outlines the aims taken from the concession application.

## **The Gola Forests**

The Gola forests are the largest remaining tropical broadleaf forests in Sierra Leone. Poorter *et al.* (2004) classified them as Hyperwet Evergreen (2,000-3,500mm) – an extension of the Hall & Swaine (1976, 1981) forest classification for Ghana – mostly with rainfall much higher than anywhere in Ghana and western Côte d'Ivoire. We have not yet reviewed two publications specifically dedicated to the Gola Forests (Small 1953, Davies 1987) but even today Wieringa & Poorter (2004) consider the Gola botanically much under-researched.

Three forests make up the Gola Forests, covering a respectable total of 750 km<sup>2</sup>: in the south are the wholly contiguous Gola West and Gola East which would appear so similar that we treat them as Gola (South). Gola North is slightly detached from the southern forests by a belt of farmbush/secondary growth: the terrain is more hilly which might influence the faunal composition. For comparison, the largest forest national parks in Ghana are all smaller than Gola: Ankasa/Nini Suhien covers 490km<sup>2</sup>, of Wet Evergreen, and Kakum covers 607 km<sup>2</sup> of

Moist Evergreen, and Bia National Park covers 300 km<sup>2</sup>, of Semi-Deciduous forest. Larsen (2006) expresses concern that these areas – given the important ecological differences and the long distances between them – are barely adequate in size and that the addition to the protected areas system of some forests in the central parts of Ghana should be made, both as a supplement to the existing protected area and as stepping stones for continued gene-flow between them.

The Gola Forests were logged up to the time of the civil war in the late 1980s and there was some agricultural encroachment. A significant part of the forests must be considered regenerating secondary forest, especially that adjacent to settlements and roads. However, further east and west of the Zimmi road in the south and inland in Gola (North) pockets of near intact forest still remain. Some of the old logging roads in Gola (North) are still motorable for several kilometres and provide extremely useful access to the forest for studies of birds, plants, and insects despite the ecological disturbances that they originally produced.

There seems to be little documentation of the forests in neighbouring parts of western Liberia, though clearly much forest remains there. However, the Gola Forests now represent the western frontier of the main West African forest systems. We believe this makes them one of the most important conservation priorities in West Africa.

### **The butterfly collecting programme**

Only one full week in the forests was initially available. Fortunately the rainy season was well under way, but most of the days were sunny during the main collecting hours, the rain falling mainly at night. Butterflies were not yet abundant, but the number of species on the wing was high. Many species were caught in just single specimens.

The mission was grouped around two teams: CB and his long-term local collector Momodou Turay generally worked together, while TBL and Chief Kenneh (GFCCP) usually collected as a team, since Chief Kenneh was new to butterflies. Alhaji Siaka of the Gola Project joined the Larsen team for two days. At various times the team was assisted by our drivers as well as by Sam Kallon, the Forestry Officer in Lalehun (Gola (North)).

The initial mission was so successful that CB decided to undertake a follow-up visit to Gola (North) on May 11-13 in advance of the beginning of the serious wet season, when the weather can close down butterfly collecting almost completely. This trip yielded thirty species not seen on the previous visit and many more new to Gola (North).

**Table 1. Itinerary for Belcastro-Larsen butterfly mission to the Gola Forests.**

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Gola (South)

- 22 April - Sussex, Freetown to Kenema
- 23 April - Kenema to Gola (South), Nemongoima Forest Camp
- 24 April - Extensive collecting in the forest – up to 3km west and east
- 25 April - Extensive collecting on northern and southern boundary line
- 26 April - Continued work on northern boundary area
- 27 April - Extensive supplementary collection by Belcastro Team
- 28 April - Continued collecting by Belcastro Team
- 29 April - Continued collecting by Belcastro Team

Gola (North)

- 27 April - Larsen Team departs for Lalehun Forest Camp
  - 28 April - Full day in forest along roads with John DeMarco
  - 29 April - Half day farmbrush and fallow lands to Joru; night debriefing in Kenema
  - 30 April - Return to Sussex, Freetown
  - 11 May - Belcastro and Momodou Turay worked out of Lalehun on a follow-up visit
  - 12 May - Belcastro and Momodou Turay worked out of Lalehun on a follow-up visit
  - 13 May - Belcastro and Momodou Turay worked out of Lalehun on a follow-up visit
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Collecting took place using standard butterfly nets as well as hanging traps for the capture of butterflies attracted to fruit bait (especially the Charaxinae and Adoliadini). The traps worked extremely well in the environment, but only four were in use at any given time.

The short time available made deep penetration of the forests impracticable. Most of the collecting was therefore undertaken in forest recovering from logging and farming of various degrees of severity; more intact forest in both the southern and the northern forests would have demanded at least two days walking, involving the use of porters, not practicable during a brief survey. In retrospect this may even have been an advantage since the presence of many very rare butterflies in the areas visited testifies indirectly to the quality and integrity of the Gola Forests' ecosystem as a whole. Secondary forest often provides a wider range of sub-habitats than intact primary forest, but species diversity will always be greatest where secondary forest is backed up by reservoirs of primary forest.

### **The butterflies of the Gola Forests and their biodiversity**

It is likely a significant amount of butterfly collecting took place in the Gola Forests during the colonial period, but during TL's research for his book on West African butterflies the name Gola hardly appeared. Whatever collecting took place was probably labelled with the names of the villages from which the collecting took place. In those days most of the area, even outside the formal reserves, was forest country.

Owen & Owen (1971, 1973) published some limited data from the Gola Forests. During their many years in Sierra Leone, the Kambui Hills and Kasabere Hill were still covered with high quality forests so the efforts to reach Gola were deemed disproportionate, as implied to TBL by the late D.F. Owen (pers. comm.). The most intensive earlier investigation of Gola was a week-long expedition into the Gola (North) from Lalehun in 1989 by CB. His collection in

Rome will contain many records not made during the current mission: however, a few of his most important observations are included from memory in the present report.

Tiwai Island can effectively be considered part of the Gola Forests. CB collected there on five occasions, describing *Cymothoe hartigi* Belcastro, 1990 as new to science. An extensive list of Tiwai butterflies could be made on the basis of his collection and notes in Rome.

Apart from the few earlier records, the data in this report and the butterfly list in appendix 2 are largely the direct results of the present mission, the results of which exceeded our expectations. In all 363 species were collected during the missions: of these, of these 332 in April and an additional 31 during CB's second visit in May. To this should be added a few that CB recollects from 1989, making a total of 370 species definitely recorded from the forests (301 in Gola (South) and 289 from Gola (North)). Analysis of biogeographical and ecological patterns in West Africa and Sierra Leone lead us to believe that the Gola Forests still contain some 282 species not yet recorded (appendix 2), though only  $\frac{3}{4}$  of these were included when estimating the total. Using the methodology described by Larsen (2006) in his review of the butterflies in Ghana's National Parks, table 2 below estimates the total butterfly fauna in the Gola Forests.

**Table 2. Summary of the number of the butterfly species known and estimated in the Gola Forests (based on a total of 750 Sierra Leone species as enumerated in appendix 1)**

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<b>Estimated total butterfly species in the Gola Forests</b>	<b>594</b>
Species that have been positively recorded and accepted from Gola	370
Species almost certain to occur 282 (75% included in estimate)	211
Species that possibly occur 53 (25% included in estimate)	13
Known Sierra Leone species that probably do not occur in Gola	45
% of estimated Gola total butterflies positively recorded:	62%
% estimate of known Sierra Leone butterfly fauna of (750)	80%

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The estimated total of 594 species is probably too low, since many of the “species almost certain to occur” (with only 75% included in the estimate) will be found in the CB material from Gola (North) from 1989. The Tiwai Island data might also be added – it is most unlikely that any Tiwai butterfly is not also in Gola. The true Gola total will certainly be well in excess of 600 species, which is more than 80% of all Sierra Leone butterflies. The fact that 62% of the estimated butterfly fauna has already been positively verified makes the total of 600+ quite certain. The second visit to Gola (North) was a useful control – only 28 of the 31 species not recorded during the April visit were considered “almost certain to occur”.

Those almost definitely absent from Gola are chiefly the true savannah species – many of which are found in places like Outamba-Kilimi National Park – that cannot thrive even in the open farmbrush surrounding the remaining forests. However, there are also some forest butterflies with very patchy known distributions that probably need highly specialized habitats: some of these have been included only as “species that possibly occur”.



It was interesting to contrast the 444 species now known from Bumbuna with the 370 from Gola. In Bumbuna about 14% of the total are those centered on the savannahs, an element that is as low as 4% in Gola. However, the species centered on wetter forests, and especially those of wet evergreen forest are clearly more dominant in Gola. This is as it should be, though not as pronounced as might be expected [313 species on the Bumbuna were collected by TL during May, 2006: the remainder were recorded by CB on many occasions between 1979 and 2004].

The first truly comprehensive list of butterflies from a single locality in West Africa was that of a varied area in Agege north of Lagos, Nigeria containing ill-kept kola and cocoa plantations, intermixed with farmbush in various stages of re-growth, patches of relict forest (including “juju woods”), and some riverine forest (Larsen *et. al.* 1980). Between 1967 and 1978 records were kept from numerous visits by two resident entomologists and many transient visitors. We were surprised when the total reached 381 species, a much larger number than ever recorded from any single site in Africa – and that from a locality with little real forest in what was rapidly becoming a suburb of Lagos. Libert (1994) was the first to surpass this total with his intensive, long-term study of two forested hills near Yaoundé in Cameroun, finding more than 700 species: his study was so comprehensive that at its conclusion he was making virtually no additions to the list. Thanks mostly to research in Ghana we now know that good forests in West Africa routinely contain more than 600 species (see Larsen (2006) for a summary). In the contiguous National Parks of Oban Hills and Korup on the Nigeria/Cameroun border no fewer than 1,050 species occur (Larsen, 1997).

However, the 600 or so species in the Gola Forests must also be viewed in the light of the total butterfly fauna of Sierra Leone which stands at about 750: there are 925 in Ghana. The Gola Forests thus seem to shelter at least 80% of all butterflies known from the country and 90% or more of the true forest butterflies. This is biodiversity writ large – and Sierra Leone biodiversity writ even larger: if this is true for butterflies, it will be the case for most other organisms as well (see later section on butterflies as indicators of overall biodiversity).

For comparison, data from other parts of West Africa and Africa are given in table 3.

**Table 3. Butterfly species recorded and estimated totals for selected localities in Africa (the only savannah locality is Mole, Ghana).**

Locality	Species recorded	Estimated totals	Per cent*
Oban Hills, Nigeria (Larsen 1997)	800	1,000	80%
Mount Fébé/Messa, Cameroun (Libert 1994)	800	850	>95%
Okwangwo, Nigeria (Larsen 1997)	620	950	65%
Atewa Range Ghana (Larsen 2006)	572	697	82%
Kakum, Ghana (Larsen 2006)	493	627	79%
Kakamega, Kenya (Kühne <i>et al.</i> 2004)	490	500	98%
Korup, Cameroun ** (Larsen 1997)	480	1,000	48%
Bumbuna area, Sierra Leone (Larsen, 2006a)	444	496	90%
Kyabobo, Ghana (Larsen 2006)	402	495	81%
Agege Secondary, Nigeria (Larsen <i>et al.</i> 1980)	385	420	91%
Gola Forests, Sierra Leone (current report, app. 2)	370	594	62%
Wli Falls, Ghana (Larsen 2006)	326	503	65%
Boabeng-Fiema, Ghana (Larsen 2006)	252	352	72%
Mole National Park, Ghana (Larsen 2006)	84	149	56%

\* Actual records in percent of estimated total: percentages above 70% should yield quite precise estimated totals.

\*\* The Korup total is actually rather low and would not have been included were it not for the fact that it shares a long border with the Oban Hills and must contain most Oban Hills species.

## West African endemism and the Gola Forests

One of the most important roles of any conservation area is to protect those species that are endemic to the area or region in question. The nature and location of the Gola Forests make it somewhat unlikely that any butterflies will be narrowly endemic to the area. A few species are almost endemic to Sierra Leone, being found also in neighbouring parts of Guinea (*Cymothoe adela* Staudinger, 1890, *Euphaedra dubreka* Collins & Larsen, 2005, *Euphaedra afzelii* Felder & Felder, 1867). Others are found also in the Liberian subregion of West Africa, stretching from Guinea or Sierra Leone to Tai National Park and the Bandama River in western Côte d'Ivoire (*Cymothoe hartigi* Belcastro, 1990). Another important element is the endemic species of Africa west of the Dahomey Gap, the elements of which stretch from Ghana proper (in a few cases from the Ghana/Togo mountains to Sierra Leone or Guinea). There is also an endemic element that is only found in the Ghana subregion, which by definition does not occur in Sierra Leone. About 13% of all butterflies found in Africa west of the Dahomey Gap are endemic – as many as one out of every eight. According to Holmgren *et al.* (2004), 22% of the 2,800 vascular plants in West Africa are endemic – butterflies may be more mobile than plants, though this does not appear to have been studied in detail.

In addition to the species listed, there are many subspecies of the more widespread butterflies that are endemic to Africa west of the Dahomey Gap. They may be quite strongly differentiated from their equatorial counterparts, in some cases with several West African

subspecies, and some might even qualify for species rank. The subspecies level has been excluded from the analysis in this report even though it would strengthen the argument that the endemic element is very important.

The endemics are listed below in table 4, with annotations on those found in the Gola Forests.

**Table 4. Species that are endemic to Africa west of the Dahomey Gap and their presence or absence from Sierra Leone and the Gola Forests (some thirty endemics strictly from the Ghana subregion are not included in the table)**

WA end = species occurring in both Liberia and Ghana subregions  
 LIB end = species endemic to the Liberia subregion  
 LIF end = species endemic to the Liberia subregion, but only known from the Fouta Djallon  
 LIN end = species endemic to the Liberia subregion, but only known from the Nimba area  
 GO = recorded from the Gola Forests  
 go = almost certain to occur in the Gola Forests  
 BU = recorded from Bumbuna area  
 + present in SL  
 ~ probably not present in SL  
 ? status doubtful.

NOTE: The numbering refers to “Butterflies of West Africa” (Larsen 2005)  
 See appendix 2 for subspecies and authors

Species number and name	Endemic	SL	Comments	GO	BU	
7	<i>Papilio horribilis</i>	WA end	+	widespread in good forest, not rare	GO	BU
100	<i>Mylothris dimidiata</i>	WA end	+	widespread in good forest, not rare	GO	
106	<i>Mylothris poppea</i>	WA end	+	widespread and common	GO	BU
123	<i>Aslauga guineensis</i>	LIF end	~	few from Fouta Djallon area		
144	<i>Pentila petreoides</i>	WA end	+	scarce and local in good forest	go	
145	<i>Pentila bennetti</i>	LIB end	+	only known from Guinea types		
148	<i>Pentila cf condamini</i>	LIB end	+	rare in good forest		BU
149	<i>Pentila preussi</i>	LIB end	+	widespread and not rare in good forest		
153	<i>Pentila abraxas</i>	LIB end	+	widespread but rare in good forest	GO	
155	<i>Pentila phidia</i>	WA end	+	less forest-adapted than other <i>Pentila</i>		BU?
160	<i>Telipna semirufa</i>	WA end	+	widespread and not rare in good forest	GO	
173	<i>Ornipholidotos issia</i>	WA end	?	few records, Ghana to Guinea	GO?	
174	<i>Ornipholidotos tiassale</i>	WA end	+	widespread and not rare in good forest	GO	
181	<i>Mimacraea darwinia</i>	WA end	+	widespread and not rare in good forest	go	bu
185	<i>Mimeresia moyambina</i>	WA end	+	widespread but very rare in good forest	go	
187	<i>Mimeresia semirufa</i>	WA end	+	widespread and not rare in good forest	go	
197	<i>Eresiomera petersi</i>	WA end	~	not found west of Liberia	GO	
224	<i>Liptena albicans</i>	WA end	+	rather rare in good forests	GO	BU
242	<i>Liptena helena</i>	WA end	+	widespread and rather rare in good forest	GO	
249	<i>Falcuna leonensis</i>	WA end	+	widespread and quite common	GO	BU
255	<i>Tetrrarhanis baralingam</i>	WA end	+	widespread in good forest	GO	BU?
257	<i>Tetrrarhanis diversa</i>	LIB end	+	few records, sometimes from dry forest		BU
265	<i>Larinopoda eurema</i>	WA end	+	widespread and quite common	GO	BU
274	<i>Micropentila mabangi</i>	LIB end	+	very rare in good forest	go	
310	<i>Hypophytala hyettoides</i>	WA end	+	not uncommon in open parts of forest	go	
317	<i>Geritola albimaculata</i>	WA end	+	rare	go	
323	<i>Stempfferia baoule</i>	LIB end	+	open areas in forest of good condition	go	

326	<i>Stempfferia dorothea</i>	WA end	+	wetter forests in good condition	go	
330	<i>Stempfferia leonina</i>	WA end	+	more widespread than most Epitolini	go	BU
334	<i>Stempfferia ciconia</i>	WA end	+	rather more common than most Epitolini	go	BU
344	<i>Stempfferia staudingeri</i>	WA end	+	rare in wetter forests, widely distributed	go	BU
372	<i>Spindasis iza</i>	WA end	+	rare in wetter forests	GO	
386	<i>Pseudaletis subangulata</i>	WA end	+	very few records are available	go	
387	<i>Pseudaletis malangi</i>	LIF end	~	few from Fouta Djallon		
388	<i>Pseudaletis richardi</i>	LIN end	~	from Nimba – maybe also Ghana		
396	<i>Iolaus alexanderi</i>	LIN end	~	from Tai		
404	<i>Iolaus mane</i>	WA end	?	known from Fouta Djallon and Ghana		
417	<i>Iolaus moyambina</i>	LIB end	+	local and rare in good forest	go	BU
420	<i>Iolaus leonis</i>	LIB end	+	rather rare in forests	go	
422	<i>Iolaus djaloni</i>	LIF end	~	few from Fouta Djallon		
442	<i>Stugeta occidentalis</i>	LIB end	+	only known from Sierra Leone types		
447	<i>Hypolycaena clenchi</i>	WA end	+	widespread in forest but uncommon	go	
456	<i>Hypolycaena condamini</i>	LIB end	~	savannah country from Senegal to SL		
477	<i>Pilodeudorix aurivilliusi</i>	WA end	+	widespread in forests	go	
516	<i>Paradeudorix petersi</i>	WA end	+	widespread in forests but rare	go	
532	<i>Anthene radiata</i>	WA end	+	widespread but very rare in good forest	GO	
559	<i>Cupidesthes salvatoris</i>	LIB end	+	only Sierra Leone types and Gola	GO	
570	<i>Uranothauma belcastroi</i>	LIB end	+	Loma Mountains and the Nimbis		
610	<i>Lepidochrysops labeensis</i>	LIF end	~	only the types from the Fouta Djallon		
611	<i>Lepidochr. sychrematiza</i>	WA end	+	widely distributed but local in drier habitats		
623	<i>Oboronia liberiana</i>	WA end	~	wet forests, might be in Gola or Tiwai		
673	<i>Bicyclus zinebi</i>	WA end	+	often common in all forests	GO	BU
683	<i>Bicyclus maesseni</i>	WA end	~	wetter forests – maybe not in SL		
700	<i>Bicyclus abnormis</i>	WA end	+	widespread but rare in wetter forests	GO	
704	<i>Bicyclus dekeyseri</i>	WA end	+	wettest forests – extends to SL in Gola	GO	
712	<i>Hallelesis halyma</i>	WA end	+	widespread in wet forests	GO	BU
713	<i>Henotesia elisi</i>	WA end	+	patchy distribution in dry hilly country		bu
762	<i>Charaxes petersi</i>	WA end	+	local in wetter forests		
763	<i>Charaxes angelae</i>	WA end	+	possibly a form of <i>C. theocles</i>	GO	
766	<i>Charaxes dreuxi</i>	LIB end	?	wetter forests in good condition		
769	<i>Charaxes plantroui</i>	WA end	+	dry zones – uncertain distribution		
805	<i>Hypolimnas aubergeri</i>	LIN end	~	few records from NW Côte d'Ivoire		
809	<i>Protogoniomorpha cytora</i>	WA end	+	widespread in all forest, in SL only Loma	go	
857	<i>Cymothoe adela</i>	LIB end	+	local in wet forest in SL and Guinea	go	
870	<i>Cymothoe hartigi</i>	LIB end	+	rare in wet forest in SL, Liberia, and CI	GO	
873	<i>Cymothoe mabiliei</i>	WA end	+	widespread and quite common in forest	GO	BU
889	<i>Pseudacraea hostilia</i>	WA end	+	local and rare in forests	GO	BU
961	<i>Euriphene veronica*</i>	LIB end	+	common in forests	GO	BU
968	<i>Euriphene simplex</i>	WA end	+	common in forests	GO	BU
982	<i>Euriphene lomaensis</i>	LIB end	+	known from SL types and from Nimba	GO	
988	<i>Euriphene leonis*</i>	LIB end	+	widespread but rare in wetter forests	GO	
996	<i>Bebearia osyris</i>	WA end	+	widespread and not rare in wetter forests	GO	BU
1013	<i>Bebearia senegalensis</i>	LIB end	+	riverine vegetation in savannah zones		bu
1017	<i>Bebearia arcadius</i>	WA end	+	local and uncommon in wetter forests	GO	BU
1030	<i>Bebearia warrengashi</i>	LIB end	~	only known from western Côte d'Ivoire		
1031	<i>Bebearia inepta</i>	LIN end	~	strictly limited to the Nimba area		
1042	<i>Euphaedra aubergeri</i>	LIN end	~	strictly limited to the Nimba area		
1047	<i>Euphaedra gausape</i>	WA end	+	widespread in forest, usually uncommon	GO	BU
1048	<i>Euphaedra judith</i>	LIB end	+	widespread in forest, usually uncommon	GO	BU
1049	<i>Euphaedra melpomene</i>	LIB end	+	in forest, usually local and uncommon	GO	
1051	<i>Euphaedra hastiri</i>	LIB end	+	widespread – may be locally common		
1052	<i>Euphaedra plantroui</i>	LIN end	~	only Nimba type – maybe an aberration		
1061	<i>Euphaedra crockeri</i>	WA end	+	widespread and not rare in good forest	GO	
1062	<i>Euphaedra eusemoides</i>	WA end	+	widespread but very rare in good forest	go	
1067	<i>Euphaedra laboureaana</i>	WA end	+	widespread and not rare in good forest		BU

1071	<i>Euphaedra minuta</i>	WA end	+	widespread but quite rare in good forest	GO	BU
1072	<i>Euphaedra modesta</i>	WA end	?	widespread but very rare in good forest	go	bu
1074	<i>Euphaedra dubreka</i>	LIB end	+	very few from Guinea and Sierra Leone		
1078	<i>Euphaedra vetusta</i>	WA end	+	very rare in Ghana, common in Guma	go	
1079	<i>Euphaedra aberrans</i>	WA end	+	very rare in Ghana, frequent in SL		BU
1084	<i>Euphaedra afzelii</i>	LIB end	+	apparently endemic to SL and Guinea		BU
1085	<i>Euphaedra phaethusa</i>	WA end	+	species status in SL is not clear	GO	BU
1086	<i>Euphaedra inanum</i>	WA end	+	common in forests		BU
1087	<i>Euphaedra villiersi</i>	LIB end	+	apparently drier forests, locally not rare		bu
1106	<i>Euphaedra francina</i>	WA end	+	widespread and not rare in good forest	GO	BU
1112	<i>Euphaedra zampa</i>	WA end	+	widespread and not rare in good forest	GO	
1117	<i>Euphaedra perseis</i>	WA end	+	widespread and not rare in good forest	GO	
1119	<i>Euphaedra eupalus</i>	WA end	+	quite common in good forest	GO	BU
1123	<i>Euptera dorothea*</i>	LIB end	+	widespread and not rare in good forest	go	BU
1189	<i>Acraea macaria</i>	WA end	+	widespread but rather rare in good forest	GO	BU
1205	<i>Coeliades aeschylus</i>	LIB end	+	curious species of savannah country		
1210	<i>Pyrrhiades lucagus</i>	WA end	~	dry coastal forest, probably not in SL		
1219	<i>Celaenorrhinus leona</i>	WA end	+	widespread but rare in good forest	go	BU
1222	<i>Celaenorrhinus nimba</i>	LIN end	~	known only from the Nimba area type		
1223	<i>Celaenorrhinus ankasa</i>	WA end	+	only Freetown Peninsula	go	
1276	<i>Astictopterus anomoeus</i>	WA end	+	patchily distributed in hill forests	go	
1305	<i>Ceratrachia crowleyi*</i>	LIB end	+	widespread but not frequent in good forest	GO	
1337	<i>Paracleros placidus</i>	WA end	+	almost certain but dissection is required	go	BU
1376	<i>Zophopetes quaterna</i>	WA end	~	very little known		
1400	<i>Leona na</i>	LIB end	~	only known from the Liberian type		
1426	<i>Melphina maximiliani</i>	WA end	+	rare and local in all forests	go	BU
1435	<i>Platylesches rossii</i>	WA end	+	very rare, ?Senegal to Volta, Ghana	GO	
1455	<i>Borbo liana</i>	LIB end	+	only type known – status doubtful		

\* these species just reach western Ghana but are probably best considered endemics of the Liberian subregion  
**Source:** Appendix 1 of this report which will be shared with the report on *Bumbuna* butterflies (Larsen 2006).

A total of 113 butterflies are endemic to Africa west of the Dahomey Gap in general or to the Liberia subregion. A further 33 species are endemic to the Ghana Subregion and the Volta Mountains (Larsen 2006), which are irrelevant for Sierra Leone. Of the 113 endemics, 70 are widespread in West Africa, from Senegal, Guinea, or Sierra Leone to Ghana. A further 32 are more narrowly restricted to the Liberian subregion. A final 11 are limited to the subcentres of the Nimba mountains and to the Fouta Djallon and are thus unlikely to occur in Sierra Leone. The total number of potential endemics to be found in Sierra Leone is thus 102, of which 91 have actually been recorded. Thus, about 12% of the 750 or so Sierra Leone butterflies are endemic to Africa west of the Dahomey Gap.

Of these 91 endemics, 44, about half, have already been recorded from Gola and a further 30 are expected. With 37 endemics recorded, but only 6 additional species expected, the total for *Bumbuna* is much lower. The Gola forests thus fulfill an important role in helping to conserve the endemic fauna of Africa west of the Dahomey Gap.

## Species of special note:

Some of the species listed in appendix 2 deserve a special mention:

- *Graphium illyris* Hewitson, 1873 was found in Gola (North). It is a rather rare species that reaches its western limit in these forests. The large size and the special pattern make it an attractive member of the Sierra Leone fauna.
- *Ornipholidotos nympa* Libert, 2000 was collected in Gola (South) as a first record from Sierra Leone. It is known from a few records from Ghana and Côte d'Ivoire where it is rare. Its presence in Sierra Leone is somewhat surprising. Libert (pers. comm.) suggests that the populations of this species west of the Dahomey Gap may belong to an undescribed species.
- *Eresiomera petersi* Stempffer & Bennett, 1956 was collected as new to Sierra Leone in Gola (South). The single female is so large and so light in colour that it might represent a distinct species, but without matching males it will provisionally be listed as *E. petersi*. It was described from Liberia.
- *Citrinophila erastus erastus* Hewitson, 1866 was collected in Gola (South). CB has previously seen it in Sierra Leone but there are no published records.
- *Tetrarhanis baralingam* Larsen, 1998 was described after specimens from Ghana. A single male from Guma Valley, Freetown also pertained to this species. Our initial findings from Gola are that most members of the genus collected belong to this species, though some may be *T. symplocus* Clench, 1965, which is common in Liberia, Côte d'Ivoire, and Ghana. Specimens that must belong to the latter were found by TBL in Bumbuna.
- *Hewitsonia occidentalis* Bouyer, 1997 was collected by CB and Chief Kenneh as new to Sierra Leone and in Gola (South) respectively [also collected by CB near Mongeri, but unpublished].
- *Spindasis iza* Hewitson, 1865 was observed by CB in Gola (South) as new to Sierra Leone. It is a rare West African endemic that has been recorded once from near Mamou in Guinea and once from Zorzor in Liberia (erroneously re-described as *Spindasis crustaria mysteriosa* Clench, 1965 (ssp. nov.)) (Larsen 2005).
- *Anthene radiata* Bethune-Baker, 1910 was originally described from Sierra Leone but there are just a few records since then: a female from Liberia, a few from Tai in Côte d'Ivoire, and a series from near Takoradi in Ghana. CB caught it in Gola (North) in 1989 and we found it to be not uncommon in several localities in Gola (South) and Gola (North).
- *Anthene mahota* Grose-Smith, 1887 was accepted as genuinely West African by Larsen (2005) on the basis of a single male from Liberia collected during the 1950s. A good series was obtained in Gola (South), which was a most welcome confirmation of its status as a genuine resident species in the region. It recurs from eastern Nigeria to the DRC.
- *Anthene scintillula aurea* Bethune-Baker, 1910 is very rare in West Africa, including Sierra Leone. We found a few both in Gola South and North. The specimens match the holotype exactly and confirm the decision by Larsen (2005) to consider *A. aurea* a subspecies of *A. scintillula*.
- *Cupidesthes salvatoris* Belcastro & Larsen, 2005 is a very rare butterfly described from Guma Valley that we collected in Gola (South) and Gola (North). A specimen from the 1890s in London is from Moyamba – where almost no forest now remains. There are just a dozen in all major museum collections. It has been the source of much taxonomic and nomenclatural confusion.
- *Bicyclus dekeyseri* Condamin, 1958 was found in Gola (North) by CB during his May visit as new to Sierra Leone. This endemic of Africa west of the Dahomey Gap was described

from Touzon in Liberia and was considered likely also to be in Sierra Leone by Larsen (2005). It is a rare species of wetter forests in good condition.

- *Charaxes nobilis claudei* le Moul, 1933 was first recorded from Gola (North) in 1989 by CB, which is the western limit of this rare butterfly. We did not find it during the current mission, but it needs mention since Larsen (2005) did not record it from Sierra Leone. To our great surprise it was also taken in a trap in farmbrush country at Bumbuna, set and monitored by Rashida Dumbuya.
- *Cymothoe hartigi hartigi* Belcastro, 1990 was described from Tiwai Island. Wrongly identified material was found in the Carnegie Museum, Pittsburgh in the R.M. Fox material from neighbouring parts of Liberia. The species is closely allied to the *C. anitorgis*-group of the “red *Cymothoe*”, which poses great taxonomic and nomenclatural difficulties. Rather surprisingly a distinct subspecies was found in the western coastal districts of Côte d’Ivoire and described as ssp. *vanessae* Warren-Gash, 2004. The species is biogeographically interesting in that no member of the *C. anitorgis*-group occurs in the Ghana Subregion while there are several in the equatorial region. CB collected it in Gola for the first time during the May visit.
- *Euriphene lomaensis* Belcastro, 1986 was first described by CB from the Loma Mountains more than twenty years ago. It was re-found – surprisingly – in Tai Forest of Côte d’Ivoire in 2000. These were the only records till CB took two males in Gola (South) on the present mission; he then collected another male and the first female during the visit to Gola (North) in May. The female turned out to have an unusual pattern for its section of the genus. The species thus seems to be an extremely rare endemic of the Liberian subregion. Its closest relatives occur only in Cameroun/Congo, a pattern rather similar to that of *Cymothoe hartigi* above.
- *Caenides dacenilla* Aurivillius, 1925 was recorded as new to Sierra Leone in Gola (South) during the mission – a significant range extension. This is a rare butterfly originally described from Cameroun and subsequently in Nigeria. It has been found in Ghana and Côte d’Ivoire during the past eight years.
- *Platylesches rossii* Belcastro, 1986 is a small member of a ‘difficult’ genus that was described from the Loma Mountains. It has since been found in Ghana’s Volta Region and study of the genitalia confirmed its specific status (Larsen 2005). Several were captured in Gola (South). [The name is erroneously spelt *rossi* in Larsen (2005)].

## Sierra Leone butterflies as indicators for overall biodiversity

Butterflies can serve – in a rough and ready manner – as proxies for terrestrial biodiversity as a whole. Most butterfly species are now known, though detailed DNA studies promise (or threaten) to increase numbers. So far studies have not actually resulted in increasing the number of species, though once geographical variation is taken more strongly into account, the picture might change. A Neotropical skipper was recently broken up into ten species, but there were already indications that a number of species were subsumed under one name.

Butterflies are by far the best known and most studied larger group of organisms besides plants and vertebrates: more precise and definitive statements can therefore be made about them. The 20,000 butterfly species account for about 1.5% of all described and named organisms, of which there are 1.5 to 1.8 million according to most estimates. No database of valid, named species exists. More than a million of these are arthropods, and probably a million are terrestrial arthropods, mainly insects. Most of these are tropical forest species

because biodiversity levels in the tropics are much higher than in temperate climates (there are more species of butterfly in the Gola Forests than occur in all of Europe).

On a worldwide scale this means that for every butterfly species there are 75–90 other named organisms. Assuming that in a “rough and ready” manner butterflies can act as a proxy for other organisms, the 750 or so species in Sierra Leone should represent a total of some 69,000–83,000 organisms. However, that would be a gross underestimate. Only plants, vertebrates, butterflies, and a few minor groups of other animals of economic importance are anywhere near fully enumerated. Parasitic wasps, flies with all sorts of curious life-styles, and many groups of beetles are strongly under-counted. Myriads of minute soil arthropods remain almost untouched by taxonomists. This is also true for fungi and most micro-organisms.

The true number of living organisms is almost certainly ten times more than those actually described and named – some would say the total is at least 30 times higher, perhaps even more. Using the low range of these guesstimates, each butterfly in Sierra Leone would thus act as a proxy for 750–900 other organisms. The 750 Sierra Leone butterflies indicate a total of 560,000–675,000 species, probably at least 800,000, and possibly many more. Most of these organisms are undescribed and we know nothing about them.

About 40 butterflies in the Gola Forests are endemic to West Africa or to its Liberia subregion. If the same proportion is applied to endemics as that used above, these butterflies would be proxies for 32,000 endemic West African organisms (though few would be strictly endemic to the Gola area).

The above figures are admittedly rough and ready. They are based on the bold assumption that the ratio of butterflies to all other organisms is a constant: but they are perhaps not all that bold. Butterflies are part of the huge arthropod fauna mainly of the wet tropical countries. The similarities between the quantitative and qualitative aspects of the butterfly fauna in the Neotropical, the Oriental, and the Afrotropical Regions are great. The Neotropical Region has about twice as many butterflies as the two other regions, but the Neotropics are generally considered to have more biodiversity than anywhere else. In all regions butterflies fit into the general web of life in the same manner, have their own spectra of predators and parasites, and are themselves important parasites on plants. In any case, the margins of error are not really that important: the biodiversity indicated by the butterflies is in any case almost unimaginable. And that is the biodiversity which the protected areas system is meant to preserve for future generations.

So, from time to time, stop briefly to reflect that every butterfly mentioned is a proxy for 800 other species of living organisms – about most of which we know practically nothing. The species known from Gola are an indicator of more than half a million other species.

## **Main conclusions**

We draw the following conclusion from our relatively brief survey:

- The butterfly biodiversity of the Gola Forests is high, probably well in excess of 600 species. They thus contain about 80% of all the 750 species known from Sierra Leone. The estimated total reaches the level of the three forest national parks in Ghana, though the total butterfly fauna of Ghana with 925 species is much higher.



- The quality of the butterfly fauna in terms of rarity and endemism is high. Some of the most significant rare species have already been discussed. As shown in table 3 the Gola Forests cover many of the endemic species from the Liberia subregion that are not limited to the Fouta Djallon or the Nimbas, as well as many of the wider West African endemics (though by definition there are no endemics of the Ghana subregion in Sierra Leone).
- The fact that so many rare and interesting species were collected in – sometimes quite heavily – logged areas is a strong indicator that the forests have the capacity to return to a state that resembles the original. In Gola (South), and especially in Gola (North), there appears to be areas of undisturbed forest that act as reservoirs of biodiversity, which helps to re-populate the regenerating parts of the forest.
- The importance of the Gola Forests in the overall butterfly biodiversity of Sierra Leone can hardly be overestimated. A significant proportion of the rarest and most interesting species in Sierra Leone are almost limited to the Gola area (as well as Tiwai Island and the Loma Mountains). Some of these are still found also in whatever pockets of good forest that exist here and there, but such spots are fast disappearing. Gola will eventually become the final Sierra Leone habitat for many species of regional and continental interest. When this is the case for butterflies, it will be true for most other organisms.
- The importance of the Gola Forests in protecting general West African endemic species, as well as those of the narrower Liberia subregion, is evident. The Gola Forests therefore play a regional and continental role in African conservation efforts that go beyond their importance for Sierra Leone.
- We were not able to assess the quality of the protection of the Gola Forests under the present regime. Our impression is that serious logging and encroachment has been largely suppressed. Certainly levels of poaching are much lower than under similar conditions in Ghana and Côte d'Ivoire, in part because of strong firearms' control efforts following the civil conflicts.
- No special measures beyond habitat conservation are needed to protect and enhance the butterfly fauna. If the forests continue to regenerate and if there is no disturbance of the present conservation levels, the butterflies will continue to thrive. And as emphasized earlier, if the butterflies continue to thrive, so will 500–800,000 organisms.

Someone reading these conclusions might well believe that we are too optimistic – even naïve. Though we understand such a view, we disagree. The Gola Forests Project is well conceived: Government commitment is strong; the Conservation Society of Sierra Leone has potential beyond its current role; the international links with and through RSPB/Birdlife International can be strengthened and enhanced. We were very pleased that our participation was at the invitation of the RSPB, showing that their commitment to the project is not limited to birds (though cheap labour like ours is, of course, always welcome).

### **The potential for further in-depth butterfly research**

We are grateful that the Gola Forests Project provided us with the opportunity to continue the expedition planned for 1996. We were pleased to see the presence of so many rare and interesting species even in the quite disturbed areas, indicating that an almost full regeneration of the forests will be possible with the present levels of protections and care. We believe that the Gola Forests are one of the most important conservation areas in West Africa, though – for other reasons – the Fouta Djallon in Guinea and the Loma/Tingi Mountains in Sierra Leone are equally important.

The present report should already be sufficient to underscore the importance of the Gola Forests as a reservoir of West African biodiversity, including the presence of many species endemic to the forests west of Dahomey Gap and the Liberia subregion. We would also stress the role of the Gola Forests as effectively the westernmost limit of the main, continuous forest block that stretches from Ghana to Sierra Leone. Though some forest still remains slightly further west, around Kenema – principally in the Kambui Hills and in the Panguma area – the next proper forest areas are on the Freetown Peninsula (less botanically and entomologically diverse than Gola) and the pockets of lowland forest around Mamou and Dubreka in Guinea (much less botanically and entomologically diverse than Gola, though biogeographically more specialized).

Given the conservation importance and biodiversity of the Gola Forests, continued research into its butterflies would be desirable. This could be done at different levels of intensity and speed. It may be possible to find volunteers who would collect and submit their data for checking with us. We might in the future, jointly or singly, be able to visit Gola at the end of the wet season when the species spectrum on the wing will be different. It might be possible to organize continued collecting under the supervision of Chief Kenneh and send them to TBL for checking of identifications. This must be examined within the overall priorities of the Gola Project.

### **Suggestion for a Gola Forests flagship butterfly**

*Cymothoe hartigi* was described from Tiwai Island by Belcastro (1990a). It is a very beautiful medium-sized butterfly with a gorgeous, sustained red ground-colour. It was found in Gola (North) for the first time by CB during his May visit. The known range covers Tiwai Island and the Gola Forests, as well as some neighbouring parts of Liberia. A distinct subspecies (ssp. *vanessae* Warren-Gash, 2004 (in Collins *et al.* 2004)) was discovered in western Côte d'Ivoire by H. Warren-Gash. The species is thus endemic to the Liberia subregion of West Africa. It is closely allied to *C. anitorgis* Hewitson, 1874 from the Cameroun-Congo area. The species pertains to an easily identified sub-group of the genus and is rather special in that no member of this sub-group is known from the Ghana subregion. We believe it is the only endemic butterfly of the Liberia subregion that is not linked to the Cameroun-Congo or equatorial subregions by a subspecies or a vicariant species found in Ghana. The fact that it has a distinct subspecies in Côte d'Ivoire also lends support the hypothesis of Beentje *et al.* (1994) that eastern Sierra Leone and western Liberia might have been separate sub-centres of endemism during at least one substantial dry period. That apart, a picture of this beautiful butterfly would make a nice addition to the splendidly painted sides of the Gola Forest Project Toyota Hi-Lux cars. The specimen figured is an old one from Liberia that is not in good condition: a better one is probably available and can be retouched in Photoshop.



*Cymothoe hartigi hartigi* Belcastro

## **Acknowledgements**

We are pleased to have had this opportunity to survey the butterflies of Gola. The importance of the Gola Forests for the conservation of biodiversity in Sierra Leone and West Africa can hardly be underestimated. We hope our rapid butterfly survey may assist the Gola Forest Conservation Concession Project in reaching its objectives. We also hope that the survey can lead to continued investigations of the butterfly fauna, eventually making Gola one of the best researched forests in Africa.

We thank John DeMarco, Alhaji Siaka, and Chief Kenneh from the Gola Project for help and encouragement and for good company in the field. It was unfortunate that Eric Klop could not participate because of illness. Sam Kallon of the Forestry Division in Lalehun was a gracious host and a good companion in the field. Belcastro's field assistant Momodou Turay provided some excellent butterflies. Various drivers managed a schedule that never left any of the participants stranded – they also managed to catch some good butterflies while they waited for us to emerge from the forest.

Our thanks are also due to many villagers who advised us, cooked for us, or simply provided pleasant company during our stay.

The survey would not have taken place if Jeremy Lindsell of RSPB had not flagged down Larsen's mission to Bumbuna. He proofread the draft report which was also kindly screened by Eddie John.

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## Appendix 1.

### Gola Forest Conservation Concession Project (GFCCP) objectives

**“Management Aim:**

The Gola Forest Reserves will be managed for biodiversity conservation and ecosystem service delivery.

**Vision:**

This Application is designed to assist the Sierra Leone Government to achieve the vision expressed in Freetown in 2002 in the Gola Conservation Concession framework document:

- 1 To conserve the integrity of the Gola Forest in perpetuity.
- 2 To ensure that local people living around Gola will have enhanced livelihoods as a result of investments and income generating schemes which remove the need for unsustainable use of Gola's resources.

Following the conservation concession concept, the license for logging will be utilised to protect the forest and not log it.

**Strategy:**

The Gola Reserves will be managed as a conservation concession, based on a management plan jointly produced by the Applicants, the Forestry Division and local community representatives. This management plan will be developed during a three-year development phase and before the final concession agreement is signed. Fees and royalties will be paid to the government and communities, a large proportion of which will be reinvested into the management of the Gola Reserves, into capacity building of the Forestry Division and other relevant stakeholders and into sustainable livelihoods schemes of local communities around Gola. It is envisaged that the Gola Reserves be upgraded to a protected area status before the concession ends and that ongoing support from a trust fund would be available for the Gola Reserves in perpetuity. The Applicants take no claim to property rights such as for bio-prospecting for the pharmaceutical industry, nor do they have any interest in diamonds or any other minerals. These rights remain purely under the control of the government and the landowners.

**Investments:**

Since 1989, the Applicants have invested almost US\$400,000 in the management of the Gola Forest Reserves. The Applicants will invest a further US\$900,000 for the two-year development phase and will seek to establish a endowment fund of US\$5-10 million, which at 4% would yield US\$2-400,000 annually to the Gola Forests, in perpetuity”.

The project is now under implementation by a small management team based at the Forestry Department in Kenema, with participation by the two NGOs and the Forestry Department. There is a potential for Gola to become a tourist destination once the tourism industry of Sierra Leone recovers (the beaches of Sierra Leone are tourism developer’s dream); it could also become a centre for rainforest research. Such a centre might be sponsored by a group of universities.”

## APPENDIX 2

### ***BUTTERFLIES OF THE GOLA FORESTS AND THE BUMBUNA AREA OF SIERRA LEONE***

***BASED ON THE CHECKLIST OF AFRICAN BUTTERFLIES WEST OF THE DAHOMEY GAP 6.vi.2006***

*(Senegal and Mauritania to Ghana and Togo)*

***Torben B. Larsen***

#### **HABITAT**

UBQ = species that can be found in nearly all types of habitats

ALF = species that are generally found in all types of forest

WEF = species that are centered on the evergreen forest types (including upland evergreen in Ghana and Nimba)

MEF = species that are centered on the moist semi-deciduous forest types

DRF = species that are centered on the drier forests, including riverine and forest/savannah transition

MNT = species that are limited to submontane vegetation

GUI = species that are centered on the Guinea Savannah, extending into farmbush in the forest zone

SUD = species that are centered on the Sudan Savannah and the Sahel, extending south as vagrants/migrants

SPE = species of specialized habitats

#### **DISTRIBUTION**

ENW = species that are endemic to most of Africa west of the Dahomey Gap (Liberia and Ghana subregions)

ENL = species that are endemic to the Liberia subregion only

ENG = species that are endemic to the Ghana subregion only

ENV = species that are endemic to the Volta Region (the Ghana/Togo Mountains)

AFR = species found practically throughout Africa in suitable habitats as indicated

WWN = species found in both the Liberia and Ghana subregions and extending only to the Niger River or western Cameroun

WWC = species found in both the Liberia and Ghana subregions and extending only to Cameroun, Congo, Gabon, CAR

WWQ = species found in both the Liberia and Ghana subregions and extending to most of the equatorial forest zone

WWT = species found in both the Liberia and Ghana subregions and extending to the coastal forests of East Africa

WWE = species found in both the Liberia and Ghana subregions and extending to East Africa north of the Equator or just south thereof

GHN = species found only in the Ghana subregion and extending to the Niger River or western Cameroun

GHC = species found only in the Ghana subregion and extending to Cameroun, Congo, Gabon, CAR

GHQ = species found only in the Ghana subregion and extending much of the equatorial forest zone

GHT = species found only in the Ghana subregion and extending to the coastal forests of East Africa

GHE = species found only in the Ghana subregion and extending to Ethiopia, Arabia, East Africa (savannah species)

VON = species found only from the Volta/Togo Region and extending to the Niger River or western Cameroun

VOC = species found only from the Volta/Togo Region and extending to Cameroun, Congo, Gabon, CAR

VOQ = species found only from the Volta/Togo Region and extending to much of the equatorial forest zone

MOW = submontane species of West Africa, one also in Nigeria/Cameroun Mountains



tbl = species caught in West Africa by Torben B. Larsen      o = not collected in West Africa by Torben B. Larsen  
a + sign indicates more than one subspecies is present in an area

**SL** = recorded from SL; **sl** = probably in SL; **@** = not mentioned by Larsen (2005) from SL

**BUM** species recorded from the Bumbuna area during the present mission

**BUB** species recorded from the Bumbuna area by C. Belcastro (pers. comm.): many HesperIIDae published in Belcastro (1986a)

bum species almost certain to occur in Bumbuna but not yet recorded

ooo species that just might occur in the Bumbuna area

~~~ species that are unlikely to occur in Bumbuna on ecological and distributional grounds

... species that have been recorded from West Africa, but not from Sierra Leone

\* collected just once or twice in the habitat or in some numbers in a single locality

\*\* collected in several localities in the relevant habitat on several occasions

\*\*\* collected on many or most occasions in the relevant habitat and often common

**RF** = Riverine Forest; **OF** = Other Forest; **FB** = Farm-Bush; **GU** = Guinea Savannah

**GOLA** species recorded from the Gola Forests during the present mission

**GOLA** species almost certain to occur in the Gola Forests but not yet recorded

ooo species that just might occur in the Gola Forests

~~~ species that are unlikely to occur in the Gola Forests on ecological and distributional grounds

... species that have been recorded from West Africa, but not from Sierra Leone

**Sth** Gola South (East & West); **Nth** Gola North

**X** = recorded during current mission, late April 2006; **N** = new species during Belcastro visit 11/13 May; **9** = Belcastro records from 1989

**RF** = Riverine Forest; **OF** = Other Forest; **FB** = Farm-Bush; **GU** = Guinea Savannah

| No.  | Species                   | Subspecies           | Author                    | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--|---------------------------|----------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------------|-----------------|
| <b>Superfamily PAPILIONOIDEA Latreille, 1802</b> |                           |                      |                           |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>Family PAPILIONIDAE Latreille, 1802</b>       |                           |                      |                           |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>Subfamily Papilioninae Latreille, 1802</b>    |                           |                      |                           |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>PAPILIO Linné, 1758</b>                       |                           |                      |                           |     |     |     |     |     |     |     |     |      |                 |                 |
| 1  | <i>P. antimachus</i>      | <i>antimachus</i>    | Drury, 1782               | WWQ | WEF | SL  | ~~~ |     |     |     |     | gola |                 |                 |
| 2  | <i>P. zalmoxis</i>        |                      | Hewitson, 1864            | WWQ | WEF | SL  | ~~~ |     |     |     |     | gola |                 |                 |
| 4  | <i>P. dardanus</i>        | <i>dardanus</i>      | Brown, 1776               | WWT | ALF | SL  | BUM | **  | **  | ~   | ~   | GOLA | x               | x               |
| 5  | <i>P. phorcas</i>         | <i>phorcas</i>       | Cramer, 1775              | WWT | ALF | SL  | ooo |     |     |     |     | GOLA | ~               | x               |
| 7  | <i>P. horribilis</i>      |                      | Butler, 1874              | ENW | WEF | SL  | BUM | **  | ~   | ~   | ~   | GOLA | ~               | N               |
| 9  | <i>P. chrapkowskoides</i> | <i>nurettini</i>     | Koçak, 1983               | WWQ | MEF | SL  | BUM | *   | *   | ~   | ~   | GOLA | x               | x               |
| 10   | <i>P. sosia</i>           | <i>sosia</i>         | Rothschild & Jordan, 1903 | WWQ | ALF | SL  | BUM | **  | **  | ~   | ~   | GOLA | x               | N               |
| 11   | <i>P. nireus</i>          | <i>nireus</i>        | Linné, 1758               | WWT | ALF | SL  | BUM | *   | **  | *   | ~   | GOLA | ~               | x               |
| 12   | <i>P. menestheus</i>      | <i>menestheus</i>    | Drury, 1773               | WWC | MEF | SL  | BUM | *   | *   | ~   | ~   | GOLA | x               | x               |
| 13   | <i>P. demodocus</i>       | <i>demodocus</i>     | Esper, 1798               | AFR | UBQ | SL  | BUM | *   | *** | *** | *   | GOLA | x               | x               |
| 15   | <i>P. cyproeofila</i>     | <i>cyproeofila</i>   | Butler, 1868              | WWQ | MEF | SL  | ooo |     |     |     |     | GOLA | x               | x               |
| 16   | <i>P. zenobia</i>         |                      | Fabricius, 1775           | WWQ | WEF | SL  | ~~~ |     |     |     |     | GOLA | ~               | N               |
| 17   | <i>P. nobicea</i>         |                      | Suffert, 1904             | ENV | MEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 18   | <i>P. cynorta</i>         | <i>cynorta</i>       | Fabricius, 1793           | WWQ | ALF | SL  | ooo |     |     |     |     | GOLA | ~               | x               |
| <b>GRAPHIUM Scopoli, 1777</b>                    |                           |                      |                           |     |     |     |     |     |     |     |     |      |                 |                 |
| 20   | <i>G. angolanus</i>       | <i>baronis</i>       | Ungemach, 1932            | AFR | GUI | SL  | BUM | ~   | *   | **  | *** | GOLA | x               | N               |
| 22   | <i>G. tynderaeus</i>      |                      | Fabricius, 1793           | WWQ | WEF | SL  | ooo |     |     |     |     | GOLA | x               | N               |
| 23   | <i>G. latreillianus</i>   | <i>latreillianus</i> | Godart, 1819              | WWQ | WEF | SL  | ooo |     |     |     |     | GOLA | x               | N               |
| 24   | <i>G. almansor</i>        | <i>ssp. nov.</i>     |                           | WWQ | DRF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 25   | <i>G. adamastor</i>       |                      | Boisduval, 1836           | WWQ | DRF | SL  | bum |     |     |     |     | GOLA | ~               | N               |
| 26   | <i>G. agamedes</i>        |                      | Westwood, 1842            | GHC | DRF | SL@ | ~~~ |     |     |     |     | ~~~  |                 |                 |
| 28   | <i>G. rileyi</i>          |                      | Berger, 1950              | ENG | WEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 29   | <i>G. leonidas</i>        | <i>leonidas</i>      | Fabricius, 1793           | AFR | UBQ | SL  | BUM | **  | *** | *** | **  | GOLA | x               | x               |
| 30   | <i>G. illyris</i>         | <i>illyris</i>       | Hewitson, 1873            | WWQ | WEF | SL  | ~~~ |     |     |     |     | GOLA | ~               | x               |
| 31   | <i>G. policeses</i>       |                      | Cramer, 1775              | WWT | ALF | SL  | BUM | *** | *** | **  | *   | GOLA | x               | x               |
| 32   | <i>G. liponesco</i>       |                      | Suffert, 1904             | WWN | MEF | SL  | BUM | *   | ~   | ~   | ~   | gola |                 |                 |
| 34   | <i>G. antheus</i>         |                      | Cramer, 1779              | WWT | DRF | SL  | BUM | *** | *** | **  | *   | GOLA | x               | x               |

| No.   | Species                | Subspecies        | Author                | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|------------------------|-------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------------|-----------------|
| <b>Family PIERIDAE Swainson, 1820</b>         |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>Subfamily Pseudopontiinae Reuter, 1896</b> |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>PSEUDOPONTIA Plötz, 1870</b>               |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 35  | <i>P. paradoxa</i>     | <i>paradoxa</i>   | Felder & Felder, 1869 | WWQ | WEF | SL  | ~~~ |     |     |     |     | GOLA | x               | x               |
| <b>Subfamily Coliadinae Swainson, 1821</b>    |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>CATOPSILIA Hübner, 1819</b>                |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 36  | <i>C. florella</i>     |                   | Fabricius, 1775       | AFR | UBQ | SL  | BUM | **  | *** | *** | *** | GOLA | x               | x               |
| <b>EUREMA Hübner, 1819</b>                    |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 38  | <i>E. senegalensis</i> |                   | Boisduval, 1836       | WWQ | MEF | SL  | BUM | *** | *** | *   | ~   | GOLA | x               | x               |
| 39  | <i>E. hecabe</i>       | <i>solifera</i>   | Butler, 1875          | AFR | UBQ | SL  | BUM | *   | *** | **  | *   | GOLA | x               | x               |
| 40  | <i>E. floricola</i>    | <i>leonis</i>     | Butler, 1886          | AFR | GUI | SL  | BUM | **  | **  | *** | *   | GOLA | x               | x               |
| 41  | <i>E. hapale</i>       |                   | Mabille, 1882         | AFR | SPE | SL  | ooo |     |     |     |     | gola |                 |                 |
| 42  | <i>E. desjardinsii</i> | <i>regularis</i>  | Butler, 1876          | AFR | UBQ | SL  | bum |     |     |     |     | gola |                 |                 |
| 43  | <i>E. brigitta</i>     | <i>brigitta</i>   | Stoll, 1780           | AFR | GUI | SL  | BUM | ~   | ~   | ~   | **  | gola |                 |                 |
| <b>Subfamily Pierinae Swainson, 1820</b>      |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>Tribe Pierini Swainson, 1820</b>           |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>PINACOPTERYX Wallengren, 1857</b>          |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 44  | <i>P. eriphia</i>      | <i>tritogenia</i> | Klug, 1829            | AFR | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| <b>NEPHERONIA Butler, 1870</b>                |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 45  | <i>N. argia</i>        | <i>argia</i>      | Fabricius, 1775       | WWT | ALF | SL  | BUM | **  | *   | ~   | ~   | GOLA | x               | x               |
| 46  | <i>N. thalassina</i>   | <i>thalassina</i> | Boisduval, 1836       | WWT | ALF | SL  | BUM | *   | ~   | ~   | ~   | GOLA | x               | N               |
| 47  | <i>N. pharis</i>       | <i>pharis</i>     | Boisduval, 1836       | WWQ | ALF | SL  | BUM | *   | ~   | ~   | ~   | GOLA | x               | N               |
| <b>COLOTIS Hübner, 1819</b>                   |                        |                   |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 51  | <i>C. amata</i>        | <i>amata</i>      | Fabricius, 1775       | WWE | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 52  | <i>C. phisadia</i>     | <i>phisadia</i>   | Godart, 1819          | WWE | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 54  | <i>C. vesta</i>        | <i>amelia</i>     | Lucas, 1852           | AFR | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 56  | <i>C. halimede</i>     | <i>halimede</i>   | Klug, 1829            | WWE | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 57  | <i>C. celimene</i>     | <i>sudanicus</i>  | Aurivillius, 1905     | AFR | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 58  | <i>C. ione</i>         |                   | Godart, 1819          | AFR | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 60  | <i>C. danae</i>        | <i>eupompe</i>    | Klug, 1829            | AFR | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 61  | <i>C. aurora</i>       | <i>evarne</i>     | Klug, 1829            | AFR | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 62  | <i>C. antevippe</i>    | <i>antevippe</i>  | Boisduval, 1836       | AFR | SUD | SL@ | ooo |     |     |     |     | ~~~  |                 |                 |

| No.                           | Species               | Subspecies          | Author                | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-------------------------------|-----------------------|---------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----------------|-----------------|
| 63                            | <i>C. euippe</i>      | <i>euippe</i>       | Linné, 1758           | AFR | UBQ | SL  | BUM | ~   | *   | *** | *  | GOLA | x               | x               |
| 65                            | <i>C. evagore</i>     | <i>antigone</i>     | Boisduval, 1836       | AFR | SUD | sl  | ooo |     |     |     |    | ~~~  |                 |                 |
| 66                            | <i>C. liagore</i>     |                     | Klug, 1829            | WWE | SUD | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 67                            | <i>C. eris</i>        | <i>eris</i>         | Klug, 1829            | AFR | SUD | ~~  | ... |     |     |     |    | ...  |                 |                 |
| <b>BELENOIS Hübner, 1819</b>  |                       |                     |                       |     |     |     |     |     |     |     |    |      |                 |                 |
| 68                            | <i>B. aurota</i>      |                     | Fabricius, 1793       | AFR | SUD | SL  | ooo |     |     |     |    | ooo  |                 |                 |
| 69                            | <i>B. creona</i>      | <i>creona</i>       | Cramer, 1776          | AFR | SUD | SL  | ooo |     |     |     |    | gola |                 |                 |
| 70                            | <i>B. gidica</i>      | <i>gidica</i>       | Godart, 1819          | AFR | SUD | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 72                            | <i>B. subeida</i>     | <i>frobeniusi</i>   | Strand, 1909          | WWE | SUD | sl  | ~~~ |     |     |     |    | ~~~  |                 |                 |
| 73                            | <i>B. calypso</i>     | <i>calypso</i>      | Drury, 1773           | WWQ | ALF | SL  | BUM | *** | *** | *** | *  | GOLA | x               | x               |
| 74                            | <i>B. theora</i>      | <i>theora</i>       | Doubleday, 1846       | WWQ | ALF | SL  | BUB |     |     |     |    | GOLA | x               | N               |
| 76                            | <i>B. hedyle</i>      | <i>ianthe</i>       | Doubleday, 1842       | WWN | DRF | SL  | BUM | *   | ~   | ~   | ~  | gola |                 |                 |
| <b>DIXEIA Talbot, 1932</b>    |                       |                     |                       |     |     |     |     |     |     |     |    |      |                 |                 |
| 78                            | <i>D. doxo</i>        | <i>doxo</i>         | Godart, 1819          | WWE | SUD | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 79                            | <i>D. orbona</i>      | <i>orbona</i>       | Geyer, 1832           | WWE | SUD | sl  | ... |     |     |     |    | ...  |                 |                 |
| 80                            | <i>D. cebron</i>      |                     | Ward, 1871            | WWC | DRF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 81                            | <i>D. capricornus</i> | <i>capricornus</i>  | Ward, 1871            | WWC | MEF | SL@ | ~~~ |     |     |     |    | gola |                 |                 |
| <b>PONTIA Fabricius, 1807</b> |                       |                     |                       |     |     |     |     |     |     |     |    |      |                 |                 |
| 82                            | <i>P. daplidice</i>   | <i>daplidice</i>    | Linné, 1758           | ??? | SPE | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 83                            | <i>P. glauconome</i>  |                     | Klug, 1829            | ??? | SPE | ~~  | ... |     |     |     |    | ...  |                 |                 |
| <b>APPIAS Hübner, 1819</b>    |                       |                     |                       |     |     |     |     |     |     |     |    |      |                 |                 |
| 84                            | <i>A. sylvia</i>      | <i>sylvia</i>       | Fabricius, 1775       | WWQ | ALF | SL  | BUM | **  | *** | ~   | ~  | GOLA | x               | x               |
| 85                            | <i>A. phaola</i>      | <i>phaola</i>       | Doubleday, 1847       | WWT | WEF | SL  | BUM | *   | **  | ~   | ~  | GOLA | x               | N               |
| 86                            | <i>A. sabina</i>      | <i>sabina</i>       | Felder & Felder, 1865 | WWT | MEF | SL  | BUM | *   | ~   | ~   | ~  | GOLA | x               | x               |
| 87                            | <i>A. epaphia</i>     | <i>epaphia</i>      | Cramer, 1779          | AFR | UBQ | SL  | bum |     |     |     |    | gola |                 |                 |
| <b>LEPTOSIA Hübner, 1818</b>  |                       |                     |                       |     |     |     |     |     |     |     |    |      |                 |                 |
| 88                            | <i>L. alcesta</i>     | <i>alcesta</i>      | Stoll, 1781           | AFR | ALF | SL  | BUM | **  | *   | *   | ~  | GOLA | x               | x               |
| 90                            | <i>L. hybrida</i>     | <i>hybrida</i>      | Bernardi, 1952        | WWQ | ALF | SL  | bum |     |     |     |    | GOLA | x               | x               |
| 91                            | <i>L. medusa</i>      |                     | Cramer, 1777          | WWN | MEF | SL  | BUM | **  | **  | ~   | ~  | GOLA | x               | N               |
| 92                            | <i>L. marginea</i>    |                     | Mabille, 1890         | WWQ | ALF | SL  | bum |     |     |     |    | gola |                 |                 |
| 93                            | <i>L. wigginsi</i>    | <i>pseudalcesta</i> |                       | WWQ | ALF | SL  | bum |     |     |     |    | gola |                 |                 |

| No.                                     | Species                | Subspecies       | Author                 | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sub>th</sub> | N <sub>th</sub> |
|---|------------------------|------------------|------------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>MYLOTHRIS Hübner, 1819</b>           |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 95                                      | <i>M. chloris</i>      | <i>chloris</i>   | Fabricius, 1775        | AFR | UBQ | SL  | BUM | *  | *  | ** | *  | GOLA | x               | N               |
| 100                                     | <i>M. dimidiata</i>    |                  | Aurivillius, 1898      | ENW | WEF | SL  | ooo |    |    |    |    | GOLA | x               | N               |
| 103                                     | <i>M. aburi</i>        |                  | Collins & Larsen, 2004 | WWN | DRF | SL@ | BUB |    |    |    |    | ~~~  |                 |                 |
| 105                                     | <i>M. hilara</i>       | <i>hilara</i>    | Karsch, 1892           | MOW | MNT | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 106                                     | <i>M. poppea</i>       |                  | Cramer, 1777           | ENW | ALF | SL  | BUM | ~  | *  | ~  | ~  | GOLA | x               | ~               |
| 107                                     | <i>M. spica</i>        |                  | Möschler, 1884         | ENG | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 109                                     | <i>M. rhodope</i>      |                  | Fabricius, 1775        | WWQ | ALF | SL  | BUM | *  | *  | ~  | ~  | GOLA | ~               | N               |
| 110                                     | <i>M. jaopura</i>      |                  | Karsch, 1893           | GHC | ALF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 111                                     | <i>M. cf schumanni</i> | <i>schumanni</i> | Suffert, 1904          | WWQ | MEF | SL  | BUM | ~  | ** | ~  | ~  | gola |                 |                 |
| 112                                     | <i>M. atewa</i>        |                  | Berger, 1980           | ENG | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>Family LYCAENIDAE Leach, 1815</b>    |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>Subfamily Miletinae Reuter, 1896</b> |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>Tribe Liphyrini Doherty, 1889</b>    |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>EULIPHYRA Holland, 1890</b>          |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 114                                     | <i>E. hewitsoni</i>    |                  | Aurivillius, 1898      | WWC | MEF | SL  | BUM | ~  | ~  | *  | ~  | gola |                 |                 |
| 115                                     | <i>E. mirifica</i>     |                  | Holland, 1890          | GHQ | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 116                                     | <i>E. leucyana</i>     |                  | Hewitson, 1874         | WWQ | MEF | SL  | bum |    |    |    |    | gola |                 |                 |
| <b>ASLAUGA Kirby, 1890</b>              |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 117                                     | <i>A. ernesti</i>      |                  | Karsch, 1895           | VON | DRF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 118                                     | <i>A. marginalis</i>   |                  | Kirby, 1890            | WWN | MEF | SL  | BUM | ~  | ~  | *  | ~  | GOLA | x               | N               |
| 123                                     | <i>A. guineensis</i>   |                  | Collins & Libert, 1997 | ENL | DRF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 124                                     | <i>A. imitans</i>      |                  | Libert, 1994           | VOC | DRF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>Tribe Miletini Reuter, 1896</b>      |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>MEGALOPALPUS Röber, 1886</b>         |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 127                                     | <i>M. zymna</i>        |                  | Westwood, 1851         | WWQ | ALF | SL@ | ~~~ |    |    |    |    | GOLA | x               | x               |
| 129                                     | <i>M. metaleucus</i>   |                  | Karsch, 1893           | WWQ | WEF | SL@ | ~~~ |    |    |    |    | GOLA | x               | ~               |
| <b>Tribe Spalgini Toxopeus, 1929</b>    |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>SPALGIS Moore, 1879</b>              |                        |                  |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 130                                     | <i>S. lemolea</i>      | <i>pilos</i>     | Druce, 1890            | AFR | DRF | SL@ | BUM | *  | ** | ** | ~  | GOLA | x               | N               |

| No.  | Species                | Subspecies         | Author                     | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA  | S <sub>th</sub> | N <sub>th</sub> |
|--|------------------------|--------------------|----------------------------|-----|-----|-----|-----|----|----|----|----|-------|-----------------|-----------------|
| <b>Tribe Lachnocnemini Clench, 1955</b>    |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| <b>LACHNOCNEMA Trimen, 1887</b>            |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| 131  | <i>L. vuattouxi</i>    |                    | Libert, 1996               | WWQ | DRF | SL@ | BUM | ~  | *  | ~  | *  | gola  |                 |                 |
| 133  | <i>L. emperamus</i>    |                    | Snellen, 1872              | WWQ | DRF | SL  | BUM | ~  | ~  | *  | *  | gola  |                 |                 |
| 135  | <i>L. disrupta</i>     |                    | Talbot, 1935               | WWQ | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 136  | <i>L. reutlingeri</i>  | <i>reutlingeri</i> | Holland, 1892              | GHQ | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 137  | <i>L. luna</i>         |                    | Druce, 1910                | VOQ | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 139  | <i>L. albimacula</i>   |                    | Libert, 1996               | GHC | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| <b>Subfamily Lipteninae</b>                |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| <b>Tribe Pentilini</b>                     |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| <b>PTELINA Clench, 1965</b>                |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| 141  | <i>P. carnuta</i>      |                    | Hewitson, 1873             | WWQ | MEF | SL  | BUM | ** | *  | ~  | ~  | GOLA  | x               | x               |
| <b>PENTILA Westwood, 1852</b>              |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| 142  | <i>P. pauli</i>        | <i>pauli</i>       | Staudinger, 1888           | AFR | DRF | SL  | BUM | *  | *  | *  | ~  | GOLA  | ~               | x               |
| 144  | <i>P. petreoides</i>   |                    | Bethune--Baker, 1915       | ENW | WEF | SL  | ~~~ |    |    |    |    | gola  |                 |                 |
| 145  | <i>P. bennetti</i>     |                    | Collins & Larsen, 2004     | ENL | WEF | ~~  | ... |    |    |    |    | ~~~   |                 |                 |
| 147  | <i>P. petreia</i>      |                    | Hewitson, 1874             | WWN | MEF | SL  | ??? |    |    |    |    | GOLA  | x               | x               |
| 148  | <i>P. cf condamini</i> |                    | Stempffer, 1963            | ENL | MEF | SL? | BUM | *  | ** | ~  | ~  | gola  |                 |                 |
| 149  | <i>P. preussi</i>      | <i>preussi</i>     | Staudinger, 1888           | ENL | DRF | SL  | ooo |    |    |    |    | ~~~   |                 |                 |
| 152  | <i>P. picena</i>       |                    | Hewitson, 1874             | WWN | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 153  | <i>P. abraxas</i>      | <i>abraxas</i>     | Hewitson, 1852             | ENL | MEF | SL  | ooo |    |    |    |    | GOLA  | x               | ~               |
| 155  | <i>P. phidia</i>       |                    | Hewitson, 1874             | ENG | DRF | SL@ | ooo |    |    |    |    | ~~~   |                 |                 |
| 157  | <i>P. hewitsoni</i>    | <i>hewitsoni</i>   | Grose--Smith & Kirby, 1887 | WWC | MEF | SL  | BUB |    |    |    |    | gola  |                 |                 |
| <b>TELIPNA Aurivillius, 1895</b>           |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| 159  | <i>T. acraea</i>       | <i>acraea</i>      | Westwood, 1851             | WWC | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 160  | <i>T. semirufa</i>     |                    | Grose--Smith & Kirby, 1889 | ENW | MEF | SL  | ooo |    |    |    |    | GOLA  | x               | N               |
| 161  | <i>T. maesseni</i>     |                    | Stempffer, 1970            | ENG | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| <b>ORNIPHOLIDOTOS Bethune--Baker, 1914</b> |                        |                    |                            |     |     |     |     |    |    |    |    |       |                 |                 |
| 170  | <i>O. nigeriae</i>     |                    | Stempffer, 1964            | GHC | WEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 171  | <i>O. onitshae</i>     |                    | Stempffer, 1962            | GHC | WEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 172  | <i>O. irwini</i>       |                    | Collins & Larsen, 1998     | GHC | WEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 173  | <i>O. issia</i>        |                    | Stempffer, 1969            | ENW | WEF | ??  | ~~~ |    |    |    |    | GOLA? | x               | ~               |

| No. | Species                  | Subspecies          | Author                     | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA  | S <sup>th</sup> | N <sup>th</sup> |
|-----|--------------------------|---------------------|----------------------------|-----|-----|-----|-----|----|----|----|----|-------|-----------------|-----------------|
| 174 | <i>O. tiassale</i>       |                     | Stempffer, 1969            | ENW | MEF | SL  | ~~~ |    |    |    |    | GOLA? | x               | ~               |
| 175 | <i>O. nympa</i>          |                     | Libert, 2000               | GHC | MEF | SL@ | ~~~ |    |    |    |    | GOLA  | x               | ~               |
|     | <b>TORBENIA</b>          |                     | <i>Libert, 2000</i>        |     |     |     |     |    |    |    |    |       |                 |                 |
| 177 | <i>T. wojtusiaki</i>     |                     | Libert, 2000               | GHN | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
|     | <b>Tribe Mimacraeini</b> |                     |                            |     |     |     |     |    |    |    |    |       |                 |                 |
|     | <b>MIMACRAEA</b>         |                     | <i>Butler, 1872</i>        |     |     |     |     |    |    |    |    |       |                 |                 |
| 179 | <i>M. neurata</i>        |                     | Holland, 1895              | WWN | WEF | SL  | BUM | ~  | *  | ~  | ~  | gola  |                 |                 |
| 181 | <i>M. darwinia</i>       |                     | Butler, 1872               | ENW | MEF | SL  | bum |    |    |    |    | gola  |                 |                 |
| 182 | <i>M. maesseni</i>       |                     | Libert, 2000               | VON | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
|     | <b>MIMERESIA</b>         |                     | <i>Stempffer, 1961</i>     |     |     |     |     |    |    |    |    |       |                 |                 |
| 184 | <i>M. libentina</i>      |                     | Hewitson, 1866             | WWC | ALF | SL  | BUB |    |    |    |    | GOLA  | x               | x               |
| 185 | <i>M. moyambina</i>      |                     | Bethune---Baker, 1904      | ENW | WEF | SL  | ~~~ |    |    |    |    | gola  |                 |                 |
| 186 | <i>M. debora</i>         | <i>catori</i>       | Bethune---Baker, 1904      | WWQ | WEF | SL  | ~~~ |    |    |    |    | ooo   |                 |                 |
| 187 | <i>M. semirufa</i>       |                     | Grose--Smith, 1902         | ENW | WEF | SL  | ~~~ |    |    |    |    | gola  |                 |                 |
| 190 | <i>M. cellularis</i>     |                     | Kirby, 1890                | GHQ | WEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 191 | <i>M. issia</i>          |                     | Stempffer, 1969            | ENG | WEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
|     | <b>Tribe Liptenini</b>   |                     |                            |     |     |     |     |    |    |    |    |       |                 |                 |
|     | <b>PSEUDERESIA</b>       |                     | <i>Butler, 1874</i>        |     |     |     |     |    |    |    |    |       |                 |                 |
| 192 | <i>P. eleaza eleaza</i>  |                     | Hewitson, 1873             | WWQ | MEF | SL  | bum |    |    |    |    | gola  |                 |                 |
|     | <b>ERESIOMERA</b>        |                     | <i>Clench, 1965</i>        |     |     |     |     |    |    |    |    |       |                 |                 |
| 193 | <i>E. bicolor</i>        |                     | Grose--Smith & Kirby, 1890 | WWC | MEF | SL  | ooo |    |    |    |    | GOLA  | x               | ~               |
| 194 | <i>E. isca</i>           | <i>occidentalis</i> | Collins & Larsen, 1998     | WWC | MEF | SL  | ~~~ |    |    |    |    | gola  |                 |                 |
| 195 | <i>E. jacksoni</i>       |                     | Stempffer, 1969            | ENG | WEF | ~~  | ... |    |    |    |    | ...   |                 |                 |
| 197 | <i>E. petersi</i>        |                     | Stempffer & Bennett, 1956  | ENW | WEF | SL@ | ~~~ |    |    |    |    | GOLA  | x               | ~               |
|     | <b>CITRINOPHILA</b>      |                     | <i>Kirby, 1887</i>         |     |     |     |     |    |    |    |    |       |                 |                 |
| 199 | <i>C. marginalis</i>     |                     | Kirby, 1887                | WWN | ALF | SL  | BUM | *  | *  | ~  | ~  | gola  |                 |                 |
| 200 | <i>C. similis</i>        |                     | Kirby, 1887                | WWC | MEF | SL@ | ooo |    |    |    |    | GOLA  | x               | ~               |
| 202 | <i>C. erastus</i>        | <i>erastus</i>      | Hewitson, 1866             | WWQ | WEF | SL@ | ~~~ |    |    |    |    | GOLA  | x               | ~               |
|     | <b>ERESINA</b>           |                     | <i>Aurivillius, 1898</i>   |     |     |     |     |    |    |    |    |       |                 |                 |
| 204 | <i>E. maesseni</i>       |                     | Stempffer, 1956            | WWN | ALF | SL  | BUB |    |    |    |    | gola  |                 |                 |
| 205 | <i>E. fusca</i>          |                     | Cator, 1904                | WWN | MEF | SL  | ooo |    |    |    |    | gola  |                 |                 |
| 206 | <i>E. pseudofusca</i>    |                     | Stempffer, 1961            | GHC | MEF | ~~  | ... |    |    |    |    | ...   |                 |                 |

| No.  | Species                 | Subspecies           | Author                      | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--|-------------------------|----------------------|-----------------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| 208  | <i>E. fontainei</i>     |                      | Stempffer, 1956             | WWQ | WEF | SL? | ~~~ |    |    |    |    | ~~~  |                 |                 |
| 209  | <i>E. jacksoni</i>      |                      | Stempffer, 1961             | WWQ | WEF | SL  | bum |    |    |    |    | gola |                 |                 |
| 210  | <i>E. saundersi</i>     |                      | Stempffer, 1956             | GHN | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 211  | <i>E. rougeoti</i>      |                      | Stempffer, 1956             | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 212  | <i>E. theodori</i>      |                      | Stempffer, 1956             | WWN | MEF | SL  | ooo |    |    |    |    | gola |                 |                 |
| <b>ARGYROCHEILA Staudinger, 1892</b>         |                         |                      |                             |     |     |     |     |    |    |    |    |      |                 |                 |
| 213  | <i>A. undifera</i>      | <i>undifera</i>      | Staudinger, 1892            | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| <b>LIPTENA Westwood, 1851</b>                |                         |                      |                             |     |     |     |     |    |    |    |    |      |                 |                 |
| 216  | <i>L. submacula</i>     |                      | Lathy, 1903                 | WWN | MEF | SL  | ooo |    |    |    |    | GOLA | x               | x               |
| 217  | <i>L. griveaudi</i>     |                      | Stempffer, 1969             | ENG | WEF | SL? | ~~~ |    |    |    |    | gola |                 |                 |
| 218  | <i>L. simplicia</i>     |                      | Möschler, 1887              | WWN | MEF | SL  | bum |    |    |    |    | GOLA | x               | x               |
| 222  | <i>L. tiassale</i>      |                      | Stempffer, 1969             | ENG | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 224  | <i>L. albicans</i>      |                      | Cator, 1904                 | ENW | MEF | SL  | BUM | ~  | *  | ~  | ~  | GOLA | x               | ~               |
| 225  | <i>L. alluaudi</i>      |                      | Mabille, 1890               | WWN | MEF | SL  | ~~~ |    |    |    |    | GOLA | x               | ~               |
| 226  | <i>L. fatima</i>        |                      | Kirby, 1890                 | GHQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 227  | <i>L. pearmani</i>      |                      | Stempffer, Benn., May, 1974 | VON | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 229  | <i>L. ferrymani</i>     | <i>bigoti</i>        | Stempffer, 1964             | WWQ | DRF | SL@ | BUB |    |    |    |    | ~~~  |                 |                 |
| 231  | <i>L. septistrigata</i> |                      | Bethune--Baker, 1903        | WWN | DRF | SL  | ~~~ |    |    |    |    | ~~~  |                 |                 |
| 232  | <i>L. evanescens</i>    |                      | Kirby, 1887                 | GHC | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 234  | <i>L. xanthostola</i>   | <i>coomassiensis</i> | Hawker-Smith, 1933          | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 236  | <i>L. rochei</i>        |                      | Stempffer, 1951             | WWN | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 237  | <i>L. flavicans</i>     | <i>oniens</i>        | Talbot, 1935                | WWQ | MEF | SL@ | ~~~ |    |    |    |    | GOLA | x               | ~               |
| 239  | <i>L. seyboui</i>       |                      | Larsen & Warren-Gash, 2001  | ENG | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 240  | <i>L. similis</i>       |                      | Kirby, 1890                 | WWC | MEF | SL  | BUB |    |    |    |    | GOLA | x               | ~               |
| 242  | <i>L. helena</i>        |                      | Druce, 1888                 | ENW | MEF | SL  | ~~~ |    |    |    |    | GOLA | x               | N               |
| 243  | <i>L. catalina</i>      |                      | Grose--Smith & Kirby, 1887  | WWC | WEF | SL  | BUB |    |    |    |    | GOLA | x               | N               |
| <b>KAKUMIA Collins &amp; Larsen, 1998</b>    |                         |                      |                             |     |     |     |     |    |    |    |    |      |                 |                 |
| 246  | <i>K. otlauga</i>       |                      | Grose-Smith & Kirby, 1890   | WWC | WEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| <b>FALCUNA Stempffer &amp; Bennett, 1963</b> |                         |                      |                             |     |     |     |     |    |    |    |    |      |                 |                 |
| 249  | <i>F. leonensis</i>     |                      | Stempffer & Bennett, 1963   | ENW | MEF | SL  | BUM | *  | *  | ~  | ~  | GOLA | x               | N               |
| 252  | <i>F. campimus</i>      |                      | Holland, 1890               | WWC | WEF | SL  | BUB |    |    |    |    | GOLA | x               | N               |



| No.                                   | Species                | Subspecies        | Author                    | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---------------------------------------|------------------------|-------------------|---------------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>TETRARHANIS Karsch, 1893</b>       |                        |                   |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 254                                   | <i>T. symplotus</i>    |                   | Clench, 1965              | WWN | ALF | SL@ | BUM | ** | ** | ~  | ~  | GOLA | x               | x               |
| 255                                   | <i>T. baralingam</i>   |                   | Larsen, 1998              | ENW | WEF | SL  | BUM | *  | *  | ~  | ~  | GOLA | x               | ~               |
| 257                                   | <i>T. diversa</i>      |                   | Bethune--Baker, 1904      | ENL | DRF | SL  | BUB |    |    |    |    | ooo  |                 |                 |
| 260                                   | <i>T. stempfferi</i>   | <i>stempfferi</i> | Berger, 1954              | WWQ | WEF | SL  | ~~~ |    |    |    |    | ooo  |                 |                 |
| <b>LARINOPODA Butler, 1871</b>        |                        |                   |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 265                                   | <i>L. eurema</i>       |                   | Plötz, 1880               | ENW | MEF | SL  | BUB |    |    |    |    | GOLA | x               | x               |
| <b>MICROPENTILA Aurivillius, 1895</b> |                        |                   |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 266                                   | <i>M. adelgitha</i>    |                   | Hewitson, 1874            | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 267                                   | <i>M. adelgunda</i>    |                   | Staudinger, 1892          | WWQ | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 268                                   | <i>M. dorothea</i>     |                   | Bethune--Baker, 1903      | WWC | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 270                                   | <i>M. brunnea</i>      | <i>brunnea</i>    | Kirby, 1887               | WWQ | WEF | SL  | ~~~ |    |    |    |    | ooo  |                 |                 |
| 273                                   | <i>M. nigeriana</i>    |                   | Stempffer & Bennett, 1965 | GHN | WEF | ~~  | ... |    |    |    |    | ~~~  |                 |                 |
| 274                                   | <i>M. mabangi</i>      |                   | Bethune--Baker, 1904      | ENL | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 275                                   | <i>M. mamfe</i>        |                   | Larsen, 1986              | ENG | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>Tribe Epitolini Jackson, 1962</b>  |                        |                   |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>TERATONEURA Dudgeon, 1909</b>      |                        |                   |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 276                                   | <i>T. isabellae</i>    |                   | Dudgeon, 1909             | WWC | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| <b>IRIDANA Aurivillius, 1921</b>      |                        |                   |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 277                                   | <i>I. incredibilis</i> |                   | Staudinger, 1891          | WWQ | ALF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 278                                   | <i>I. rougeoti</i>     |                   | Stempffer, 1964           | WWQ | ALF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 279                                   | <i>I. ghanana</i>      |                   | Stempffer, 1964           | WWC | ALF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 280                                   | <i>I. exquisita</i>    |                   | Grose--Smith, 1898        | GHC | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 281                                   | <i>I. nigeriana</i>    |                   | Stempffer, 1964           | GHC | ALF | ~~  | ~~~ |    |    |    |    | ~~~  |                 |                 |
| 282                                   | <i>I. hypocala</i>     |                   | Eltringham, 1929          | VOC | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>HEWITSONIA Kirby, 1871</b>         |                        |                   |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 283                                   | <i>H. boisduvalii</i>  |                   | Hewitson, 1869            | WWC | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 284                                   | <i>H. occidentalis</i> |                   | Bouyer, 1997              | WWN | MEF | SL@ | ~~~ |    |    |    |    | GOLA | x               | ~               |
| 285                                   | <i>H. danane</i>       |                   | Stempffer, 1969           | WWC | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 286                                   | <i>H. inexpectata</i>  |                   | Bouyer, 1997              | WWQ | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |

| No.                             | Species                | Subspecies          | Author                 | DIS | HAB | SL | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---------------------------------|------------------------|---------------------|------------------------|-----|-----|----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>CERAUTOLA Libert, 1999</b>   |                        |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 289                             | <i>C. crowleyi</i>     | <i>crowleyi</i>     | Sharpe, 1890           | WWQ | MEF | SL | ooo |    |    |    |    | gola |                 |                 |
| 291                             | <i>C. ceraunia</i>     |                     | Hewitson, 1873         | WWQ | MEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
| 293                             | <i>C. miranda</i>      | <i>miranda</i>      | Staudinger, 1889       | WWQ | MEF | SL | ooo |    |    |    |    | gola |                 |                 |
| <b>EPITOLA Westwood, 1851</b>   |                        |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 294                             | <i>E. posthumus</i>    |                     | Fabricius, 1793        | WWQ | MEF | SL | BUB |    |    |    |    | gola |                 |                 |
| 295                             | <i>E. uranoides</i>    | <i>occidentalis</i> | Libert, 1999           | WWQ | MEF | SL | ooo |    |    |    |    | gola |                 |                 |
| 296                             | <i>E. urania</i>       |                     | Kirby, 1887            | WWQ | MEF | SL | ooo |    |    |    |    | gola |                 |                 |
| <b>CEPHETOLA Libert, 1999</b>   |                        |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 297                             | <i>C. cephena</i>      | <i>cephena</i>      | Hewitson, 1873         | WWQ | MEF | SL | ooo |    |    |    |    | GOLA | x               | ~               |
| 298                             | <i>C. maculata</i>     |                     | Hawker--Smith, 1926    | GHQ | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 299                             | <i>C. pinodes</i>      | <i>pinodes</i>      | Druce, 1890            | WWQ | MEF | SL | BUB |    |    |    |    | gola |                 |                 |
|                                 | <i>C. pinodes</i>      | <i>budduana</i>     | Talbot, 1937           | "   | "   |    |     |    |    |    |    |      |                 |                 |
| 300                             | <i>C. subcoerulea</i>  |                     | Roche, 1954            | WWC | ALF | SL | ~~~ |    |    |    |    | gola |                 |                 |
| 301                             | <i>C. nigra</i>        |                     | Bethune--Baker, 1903   | WWQ | MEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
| 302                             | <i>C. mercedes</i>     | <i>ivoriensis</i>   | Jackson, 1967          | GHC | MEF | ~~ | ... |    |    |    |    | ~~~  |                 |                 |
| 303                             | <i>C. obscura</i>      |                     | Hawker-Smith, 1933     | WWN | MEF | SL | BUB |    |    |    |    | gola |                 |                 |
| 305                             | <i>C. sublustris</i>   |                     | Bethune--Baker, 1904   | WWQ | MEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
| 306                             | <i>C. maesseni</i>     |                     | Libert, 1999           | ENG | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 307                             | <i>C. collinsi</i>     |                     | Libert & Larsen, 1999  | GHN | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| <b>HYPOPHYTALA Clench, 1965</b> |                        |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 308                             | <i>H. hyettoides</i>   |                     | Aurivillius, 1895      | WWC | MEF | SL | ooo |    |    |    |    | gola |                 |                 |
| 309                             | <i>H. ultramarina</i>  |                     | Libert & Collins, 2004 | VOC | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 310                             | <i>H. hyettina</i>     |                     | Aurivillius, 1897      | ENW | MEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
| 311                             | <i>H. henleyi</i>      |                     | Kirby, 1890            | WWQ | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 312                             | <i>H. benitensis</i>   | <i>benitensis</i>   | Holland, 1890          | GHQ | WEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| <b>PHYTALA Westwood, 1851</b>   |                        |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 314                             | <i>P. elais</i>        | <i>catori</i>       | Bethune--Baker, 1903   | WWQ | MEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
|                                 | <i>P. elais</i>        | <i>elais</i>        | Westwood, 1851         | "   | "   |    |     |    |    |    |    |      |                 |                 |
| <b>GERITOLA Libert, 1999</b>    |                        |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 315                             | <i>G. gerina</i>       |                     | Hewitson, 1878         | GHQ | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 317                             | <i>G. albomaculata</i> |                     | Bethune--Baker, 1903   | ENW | MEF | SL | bum |    |    |    |    | gola |                 |                 |

| No.                                       | Species               | Subspecies       | Author                    | DIS  | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|-----------------------|------------------|---------------------------|------|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| 320                                       | <i>G. virginea</i>    |                  | Bethune--Baker, 1904      | WWC  | MEF | SL  | bum |    |    |    |    | GOLA | x               | ~               |
| 321                                       | <i>G. subargentea</i> | <i>continua</i>  | Libert, 1999              | GHQ  | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>STEMPFERIA Jackson, 1962</b>           |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| 322                                       | <i>S. cercene</i>     |                  | Hewitson, 1873            | WWQ  | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 323                                       | <i>S. baoule</i>      |                  | Libert, 1999              | ENL  | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 324                                       | <i>S. moyambina</i>   |                  | Bethune--Baker, 1903      | WWN  | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 326                                       | <i>S. dorothea</i>    |                  | Bethune--Baker, 1904      | ENW  | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 330                                       | <i>S. leonina</i>     |                  | Staudinger, 1888          | ENW  | MEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 334                                       | <i>S. ciconia</i>     | <i>ciconia</i>   | Grose-Smith & Kirby, 1892 | ENW  | MEF | SL  | BUM | ~  | *  | ~  | ~  | gola |                 |                 |
| 335                                       | <i>S. zelza</i>       |                  | Hewitson, 1873            | VOC  | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 340                                       | <i>S. michelae</i>    | <i>michelae</i>  | Libert, 1999              | WWQ  | ALF | SL  | ooo |    |    |    |    | gola |                 |                 |
| 342                                       | <i>S. kholifa</i>     |                  | Bethune--Baker, 1904      | WWN  | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 344                                       | <i>S. staudingeri</i> |                  | Kirby, 1890               | ENW  | WEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| <b>AETHIOPANA Bethune--Baker, 1915</b>    |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| 346                                       | <i>A. honorius</i>    | <i>divisa</i>    | Butler, 1901              | WWQ  | MEF | SL  | BUM | ~  | *  | ~  | ~  |      |                 |                 |
| <b>EPITOLINA Aurivillius, 1895</b>        |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| 347                                       | <i>E. dispar</i>      |                  | Kirby, 1887               | WWQ  | MEF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | x               | N               |
| 348                                       | <i>E. melissa</i>     |                  | Druce, 1888               | WWQ  | MEF | SL  | BUB |    |    |    |    | GOLA | x               | x               |
| 349                                       | <i>E. collinsi</i>    |                  | Libert, 2000              | WWC? | MEF | SL? | ~~~ |    |    |    |    | ooo  |                 |                 |
| 350                                       | <i>E. catori</i>      | <i>catori</i>    | Bethune--Baker, 1904      | WWQ  | MEF | SL  | ooo |    |    |    |    | gola |                 |                 |
| <b>NEAVEIA Druce, 1910</b>                |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| 352                                       | <i>N. lamborni</i>    | <i>lamborni</i>  | Druce, 1910               | GHQ  | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>Subfamily Theclinae Swainson, 1830</b> |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| <b>Tribe Amblypodini Doherty, 1886</b>    |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| <b>MYRINA Fabricius, 1807</b>             |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| 354                                       | <i>M. silenus</i>     | <i>silenus</i>   | Fabricius, 1775           | AFR  | GUI | SL  | BUM | ~  | ~  | *  | ~  | GOLA | x               | ~               |
| 355                                       | <i>M. subornata</i>   | <i>subornata</i> | Lathy, 1903               | WWE  | GUI | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>Tribe Oxylidini Eliot, 1973</b>        |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| <b>OXYLIDES Hübner, 1819</b>              |                       |                  |                           |      |     |     |     |    |    |    |    |      |                 |                 |
| 356                                       | <i>O. faunus</i>      | <i>faunus</i>    | Drury, 1773               | WWQ  | MEF | SL  | BUM | ** | *  | ~  | ~  | GOLA | x               | x               |

| No.                                  | Species                | Subspecies        | Author                | DIS | HAB | SL | BU  | RF | OF  | FB | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--------------------------------------|------------------------|-------------------|-----------------------|-----|-----|----|-----|----|-----|----|-----|------|-----------------|-----------------|
| <b>Tribe Loxurini Swinhoe, 1910</b>  |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| <b>DAPIDODIGMA Karsch, 1895</b>      |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| 359                                  | <i>D. hymen</i>        |                   | Fabricius, 1775       | WWN | MEF | SL | BUM | ** | *** | ** | ~   | GOLA | ~               | x               |
| 360                                  | <i>D. demeter</i>      | <i>demeter</i>    | Clench, 1961          | GHQ | MEF | ~~ | ... |    |     |    |     | ...  |                 |                 |
| <b>Tribe Aphnaeini Distant, 1884</b> |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| <b>APHNAEUS Hübner, 1819</b>         |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| 361                                  | <i>A. orcas</i>        |                   | Drury, 1782           | WWQ | ALF | SL | BUB |    |     |    |     | gola |                 |                 |
| 362                                  | <i>A. argyrocyclus</i> |                   | Holland, 1890         | WWQ | MEF | ~~ | ... |    |     |    |     | ...  |                 |                 |
| 363                                  | <i>A. asterius</i>     |                   | Plötz, 1880           | WWC | WEF | SL | ~~~ |    |     |    |     | ooo  |                 |                 |
| 364                                  | <i>A. brahami</i>      |                   | Lathy, 1903           | WWC | GUI | ~~ | ... |    |     |    |     | ...  |                 |                 |
| 365                                  | <i>A. jefferyi</i>     |                   | Hawker--Smith, 1928   | WWQ | WEF | SL | ~~~ |    |     |    |     | ooo  |                 |                 |
| 366                                  | <i>A. charboneli</i>   |                   | Bouyer & Libert, 1996 | WWC | WEF | ~~ | ... |    |     |    |     | ...  |                 |                 |
| 367                                  | <i>A. gilloni</i>      |                   | Stempffer, 1966       | GHC | MEF | ~~ | ... |    |     |    |     | ...  |                 |                 |
| <b>APHARITIS Riley, 1925</b>         |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| 368                                  | <i>A. nilus</i>        |                   | Hewitson, 1865        | WWE | SUD | ~~ | ... |    |     |    |     | ...  |                 |                 |
| <b>SPINDASIS Wallengren, 1857</b>    |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| 369                                  | <i>S. mozambica</i>    |                   | Bertolini, 1850       | AFR | GUI | SL | BUM | ~  | ~   | ~  | *   | gola |                 |                 |
| 370                                  | <i>S. avriko</i>       |                   | Karsch, 1893          | WWQ | GUI | SL | BUB |    |     |    |     | ~~~  |                 |                 |
| 371                                  | <i>S. crustaria</i>    |                   | Holland, 1890         | VOC | WEF | ~~ | ... |    |     |    |     | ...  |                 |                 |
| 372                                  | <i>S. iza</i>          |                   | Hewitson, 1865        | ENW | MEF | SL | ooo |    |     |    |     | GOLA | x               | ~               |
| 373                                  | <i>S. menelas</i>      |                   | Druce, 1907           | WWN | MEF | ~~ | ... |    |     |    |     | ...  |                 |                 |
| <b>ZERITIS Boisduval, 1836</b>       |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| 374                                  | <i>Z. neriene</i>      |                   | Boisduval, 1836       | WWE | SUD | SL | BUB |    |     |    |     | ooo  |                 |                 |
| <b>AXIOCERSES Hübner, 1819</b>       |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| 375                                  | <i>A. harpax</i>       |                   | Fabricius, 1775       | WWE | GUI | SL | BUM | ~  | ~   | ** | *** | GOLA | ~               | x               |
| 377                                  | <i>A. amanga</i>       |                   | Westwood, 1881        | AFR | SUD | ~~ | ... |    |     |    |     | ...  |                 |                 |
| <b>LIPAPHNAEUS Aurivillius, 1916</b> |                        |                   |                       |     |     |    |     |    |     |    |     |      |                 |                 |
| 378                                  | <i>L. leonina</i>      | <i>leonina</i>    | Sharpe, 1890          | WWQ | MEF | SL | BUB |    |     |    |     | gola |                 |                 |
|                                      | <i>L. leonina</i>      | <i>ivoirensis</i> | Stempffer, 1966       | "   | "   |    |     |    |     |    |     |      |                 |                 |
| 379                                  | <i>L. aderna</i>       | <i>aderna</i>     | Plötz, 1880           | AFR | GUI | SL | ooo |    |     |    |     | ooo  |                 |                 |

| No.   | Species                | Subspecies      | Author                    | DIS  | HAB | SL         | BU         | RF | OF | FB | GU | GOLA        | S <sup>th</sup> | N <sup>th</sup> |
|---|------------------------|-----------------|---------------------------|------|-----|------------|------------|----|----|----|----|-------------|-----------------|-----------------|
| <b><i>PSEUDALETIS</i> Druce, 1888</b>                           |                        |                 |                           |      |     |            |            |    |    |    |    |             |                 |                 |
| 380   | <i>P. agrippina</i>    |                 | Druce, 1888               | GHN  | MEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 381   | <i>P. cf agrippina</i> | <i>sp 1</i>     |                           | ENG  | MEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 383   | <i>P. catori</i>       |                 | Bethune--Baker, 1926      | GHN  | DRF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 386   | <i>P. subangulata</i>  |                 | Talbot, 1935              | ENW  | MEF | <b>SL</b>  | ~~~        |    |    |    |    | gola        |                 |                 |
| 387   | <i>P. malangi</i>      |                 | Collins & Larsen, 1995    | ENL  | MEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 388   | <i>P. richardi</i>     |                 | Stempffer, 1953           | ENL  | WEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 389   | <i>P. batesi</i>       |                 | Druce, 1910               | GHC? | WEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 390   | <i>P. dardanella</i>   |                 | Riley, 1922               | WWC  | WEF | <b>SL</b>  | ~~~        |    |    |    |    | ooo         |                 |                 |
| 391   | <i>P. leonis</i>       |                 | Staudinger, 1888          | WWN  | MEF | <b>SL</b>  | ooo        |    |    |    |    | gola        |                 |                 |
| <b>Tribe IOLAINI Riley, 1958</b>                                |                        |                 |                           |      |     |            |            |    |    |    |    |             |                 |                 |
| <b><i>IOLAUS</i> Hübner, 1819</b>                               |                        |                 |                           |      |     |            |            |    |    |    |    |             |                 |                 |
| <b>Subgenus <i>Iolaus</i> Hübner, 1819</b>                      |                        |                 |                           |      |     |            |            |    |    |    |    |             |                 |                 |
| 392   | <i>I. eurisus</i>      |                 | Cramer, 1779              | WWC  | ALF | <b>SL</b>  | <b>BUM</b> | *  | ~  | ~  | ~  | gola        |                 |                 |
| <b>Subgenus <i>Iolophilus</i> Stempffer &amp; Bennett, 1958</b> |                        |                 |                           |      |     |            |            |    |    |    |    |             |                 |                 |
| 393   | <i>I. menas</i>        | <i>menas</i>    | Druce, 1890               | WWE  | SUD | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 395   | <i>I. carolinae</i>    |                 | Collins & Larsen, 2000    | ENG  | MEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 396   | <i>I. alexanderi</i>   |                 | Warren-Gash, 2004         | ENL  | WEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 397   | <i>I. iulus</i>        |                 | Hewitson, 1869            | WWQ  | MEF | <b>SL</b>  | bum        |    |    |    |    | gola        |                 |                 |
| <b>Subgenus <i>Argiolaus</i> Druce, 1891</b>                    |                        |                 |                           |      |     |            |            |    |    |    |    |             |                 |                 |
| 398   | <i>I. ismenias</i>     |                 | Klug, 1834                | WWE  | SUD | <b>SL@</b> | <b>BUB</b> |    |    |    |    | ~~~         |                 |                 |
| 399   | <i>I. newporti</i>     |                 | Larsen, 1994              | ENN  | GUI | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 400   | <i>I. alcibiades</i>   |                 | Kirby, 1871               | WWQ  | MEF | <b>SL</b>  | ~~~        |    |    |    |    | gola        |                 |                 |
| 401   | <i>I. parasilanus</i>  | <i>maesseni</i> | Stempffer & Bennett, 1958 | VOQ  | MEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 402   | <i>I. paneperata</i>   |                 | Druce, 1890               | WWQ  | MEF | <b>SL</b>  | ~~~        |    |    |    |    | gola        |                 |                 |
| 403   | <i>I. lukabas</i>      |                 | Druce, 1890               | WWC  | MEF | <b>SL</b>  | ~~~        |    |    |    |    | <b>GOLA</b> | x               | ~               |
| 404   | <i>I. mane</i>         |                 | Collins & Larsen, 2004    | ENW  | MEF | s1         | ...        |    |    |    |    | ...         |                 |                 |
| 405   | <i>I. theodori</i>     |                 | Stempffer, 1970           | ENV  | MEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 406   | <i>I. likpe</i>        |                 | Collins & Larsen, 2004    | ENV  | MEF | ~~         | ...        |    |    |    |    | ...         |                 |                 |
| 407   | <i>I. calisto</i>      |                 | Westwood, 1851            | WWC  | ALF | <b>SL</b>  | bum        |    |    |    |    | gola        |                 |                 |
| 408   | <i>I. laonides</i>     |                 | Aurivillius, 1898         | WWC  | MEF | <b>SL</b>  | ~~~        |    |    |    |    | ooo         |                 |                 |

| No.   | Species                | Subspecies        | Author                    | DIS | HAB | SL  | BU  | RF | OF | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|------------------------|-------------------|---------------------------|-----|-----|-----|-----|----|----|-----|-----|------|-----------------|-----------------|
| <b>Subgenus Tanuetheira Druce, 1891</b>         |                        |                   |                           |     |     |     |     |    |    |     |     |      |                 |                 |
| 410   | <i>I. timon</i>        | <i>timon</i>      | Fabricius, 1787           | WWQ | MEF | SL  |     |    |    |     |     | gola |                 |                 |
| <b>Subgenus Epamera Druce, 1891</b>             |                        |                   |                           |     |     |     |     |    |    |     |     |      |                 |                 |
| 411   | <i>I. alienus</i>      | <i>bicaudatus</i> | Aurivillius, 1905         | AFR | SUD | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 412   | <i>I. sudanicus</i>    |                   | Aurivillius, 1905         | WWE | SUD | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 414   | <i>I. scintillans</i>  |                   | Aurivillius, 1905         | WWE | SUD | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 415   | <i>I. laon</i>         |                   | Hewitson, 1878            | GHN | MEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 417   | <i>I. moyambina</i>    |                   | Stempffer & Bennett, 1959 | ENL | WEF | SL  | BUM | ~  | *  | ~   | ~   | gola |                 |                 |
| 418   | <i>I. banco</i>        |                   | Stempffer, 1966           | ENG | WEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 420   | <i>I. leonis</i>       |                   | Riley, 1928               | ENL | MEF | SL  | ~~~ |    |    |     |     | gola |                 |                 |
| 421   | <i>I. pollux</i>       | <i>oberthueri</i> | Riley, 1929               | GHQ | MEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 422   | <i>I. djaloni</i>      |                   | Collins & Larsen, 1998    | ENL | DRF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 424   | <i>I. longicauda</i>   | <i>haydoni</i>    | Collins & Larsen, 2000    | GHN | WEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 425   | <i>I. normani</i>      | <i>meamui</i>     | Collins & Larsen, 2005    | WWN | DRF | ~~  | ... |    |    |     |     | ...  |                 |                 |
|   | <i>I. normani</i>      | <i>normani</i>    | Larsen, 1986              | "   | "   |     |     |    |    |     |     |      |                 |                 |
| 426   | <i>I. sappirus</i>     |                   | Druce, 1902               | WWQ | MEF | SL  | ~~~ |    |    |     |     | GOLA | x               | ~               |
| 432   | <i>I. fontainei</i>    |                   | Stempffer, 1956           | VOQ | MEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 434   | <i>I. aethria</i>      |                   | Karsch, 1893              | WWC | MEF | SL  | ~~~ |    |    |     |     | GOLA | x               | ~               |
| 435   | <i>I. farquharsoni</i> |                   | Bethune--Baker, 1922      | GHQ | MEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 436   | <i>I. iasis</i>        | <i>iasis</i>      | Hewitson, 1865            | WWQ | ALF | SL@ | bum |    |    |     |     | gola |                 |                 |
| 437   | <i>I. maesa</i>        |                   | Hewitson, 1862            | WWQ | MEF | SL  | ~~~ |    |    |     |     | gola |                 |                 |
| <b>ETESIOLAUS Stempffer &amp; Bennett, 1959</b> |                        |                   |                           |     |     |     |     |    |    |     |     |      |                 |                 |
| 439   | <i>E. catori</i>       | <i>catori</i>     | Bethune--Baker, 1904      | WWQ | DRF | SL  | ooo |    |    |     |     | gola |                 |                 |
| 440   | <i>E. kyabobo</i>      |                   | Larsen, 1996              | WWQ | DRF | sl  | ooo |    |    |     |     | ooo  |                 |                 |
| <b>STUGETA Druce, 1891</b>                      |                        |                   |                           |     |     |     |     |    |    |     |     |      |                 |                 |
| 441   | <i>S. marmoreus</i>    | <i>marmoreus</i>  | Butler, 1866              | WWQ | SUD | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 442   | <i>S. occidentalis</i> |                   | Stempffer & Bennett, 1958 | ENL | GUI | SL  | ~~~ |    |    |     |     | ~~~  |                 |                 |
| <b>Tribe Hypolycaenini Swinhoe, 1910</b>        |                        |                   |                           |     |     |     |     |    |    |     |     |      |                 |                 |
| <b>HYPOLYCAENA Felder, 1862</b>                 |                        |                   |                           |     |     |     |     |    |    |     |     |      |                 |                 |
| 443   | <i>H. philippus</i>    | <i>philippus</i>  | Fabricius 1793            | AFR | GUI | SL  | BUM | *  | ** | *** | *** | GOLA | x               | N               |
| 444   | <i>H. kadiskos</i>     |                   | Druce, 1890               | GHQ | WEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 445   | <i>H. liara</i>        | <i>liara</i>      | Druce, 1890               | WWQ | MEF | SL  | ooo |    |    |     |     | gola |                 |                 |

| No.                                    | Species                 | Subspecies        | Author                  | DIS | HAB | SL | BU  | RF | OF  | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--|-------------------------|-------------------|-------------------------|-----|-----|----|-----|----|-----|----|----|------|-----------------|-----------------|
| 446                                    | <i>H. lebona</i>        | <i>lebona</i>     | Hewitson, 1865          | WWQ | WEF | SL | BUM | ~  | *   | ~  | ~  | GOLA | x               | N               |
| 447                                    | <i>H. clenchi</i>       |                   | Larsen, 1997            | ENW | WEF | SL | ooo |    |     |    |    | gola |                 |                 |
| 449                                    | <i>H. scintillans</i>   |                   | Stempffer, 1957         | WWC | MEF | SL | BUM | ** | *** | ~  | ~  | GOLA | x               | x               |
| 450                                    | <i>H. dubia</i>         |                   | Aurivillius, 1895       | WWQ | ALF | SL | BUM | *  | *   | ~  | ~  | GOLA | ~               | x               |
| 451                                    | <i>H. kakumi</i>        |                   | Larsen, 1997            | WWC | MEF | ~~ | ... |    |     |    |    | ...  | ?               | ~               |
| 452                                    | <i>H. antifaunus</i>    | <i>antifaunus</i> | Westwood, 1851          | WWQ | MEF | SL | BUM | ~  | *   | ~  | ~  | gola |                 |                 |
| 453                                    | <i>H. hatita</i>        | <i>hatita</i>     | Hewitson, 1865          | WWQ | MEF | SL | BUM | *  | **  | ~  | ~  | GOLA | x               | x               |
| 454                                    | <i>H. anara</i>         |                   | Larsen, 1986            | ENW | DRF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 455                                    | <i>H. nigra</i>         |                   | Bethune--Baker, 1914    | WWQ | WEF | SL | BUM | ~  | *   | ~  | ~  | GOLA | x               | x               |
| 456                                    | <i>H. condamini</i>     |                   | Stempffer, 1956         | ENL | GUI | ~~ | ... |    |     |    |    | ...  |                 |                 |
| <b>Tribe Deudorigini Doherty, 1887</b> |                         |                   |                         |     |     |    |     |    |     |    |    |      |                 |                 |
| <b>PILODEUDORIX Druce, 1891</b>        |                         |                   |                         |     |     |    |     |    |     |    |    |      |                 |                 |
| 457                                    | <i>P. camerona</i>      | <i>camerona</i>   | Plötz, 1880             | WWQ | MEF | SL | BUM | ~  | ~   | *  | ~  | GOLA | ~               | x               |
| 458                                    | <i>P. diyllus</i>       | <i>diyllus</i>    | Hewitson, 1878          | WWQ | MEF | SL | BUM | ~  | *   | ~  | ~  | gola |                 |                 |
| 460                                    | <i>P. caerulea</i>      | <i>caerulea</i>   | Druce, 1890             | AFR | GUI | SL | bum |    |     |    |    | gola |                 |                 |
| 461                                    | <i>P. zela</i>          |                   | Hewitson, 1869          | WWQ | MEF | SL | BUM | *  | ~   | *  | ~  | gola |                 |                 |
| 462                                    | <i>P. catori</i>        |                   | Bethune--Baker, 1903    | WWN | DRF | SL | bum |    |     |    |    | GOLA | x               | N               |
| 464                                    | <i>P. hamidou</i>       |                   | Libert, 2004            | GHC | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 465                                    | <i>P. mera</i>          | <i>mera</i>       | Hewitson, 1873          | GHQ | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 467                                    | <i>P. otraeda</i>       | <i>otraeda</i>    | Hewitson, 1863          | WWQ | MEF | SL | ~~~ |    |     |    |    | gola |                 |                 |
| 468                                    | <i>P. leonina</i>       | <i>leonina</i>    | Bethune--Baker, 1904    | WWQ | MEF | SL | ooo |    |     |    |    | gola |                 |                 |
| 469                                    | <i>P. virgata</i>       |                   | Druce, 1891             | WWQ | MEF | SL | ~~~ |    |     |    |    | GOLA | x               | N               |
| 473                                    | <i>P. deritas</i>       |                   | Hewitson, 1874          | WWQ | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 474                                    | <i>P. aucta</i>         |                   | Karsch, 1895            | WWC | MEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 475                                    | <i>P. pseudoderitas</i> |                   | Stempffer, 1964         | GHQ | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 476                                    | <i>P. laticlavata</i>   |                   | Clench, 1965            | GHC | MEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 477                                    | <i>P. aurivilliusi</i>  |                   | Stempffer, 1954         | ENW | MEF | SL | ooo |    |     |    |    | gola |                 |                 |
| 478                                    | <i>P. kiellandi</i>     |                   | Congdon & Collins, 1998 | WWQ | MEF | SL | ~~~ |    |     |    |    | gola |                 |                 |
| 479                                    | <i>P. corruscans</i>    | <i>kakumi</i>     | Larsen, 1994            | GHQ | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 480                                    | <i>P. violetta</i>      |                   | Aurivillius, 1897       | WWQ | MEF | SL | ~~~ |    |     |    |    | gola |                 |                 |
| 481                                    | <i>P. fumata</i>        |                   | Stempffer, 1954         | GHQ | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |

| No.   | Species                     | Subspecies      | Author                    | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|-----------------------------|-----------------|---------------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>PARADEUDORIX Libert, 2004</b>            |                             |                 |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 484   | <i>P. eleala</i>            | <i>viridis</i>  | Stempffer, 1964           | WWN | ALF | SL  | BUM | *  | ** | ~  | ~  | GOLA | x               | N               |
|   | <i>P. eleala</i>            | <i>eleala</i>   | Hewitson, 1865            | "   | "   |     |     |    |    |    |    |      |                 |                 |
| 485   | <i>P. petersi</i>           |                 | Stempffer & Bennett, 1956 | ENW | WEF | SL  | ~~~ |    |    |    |    | ooo  |                 |                 |
| 487   | <i>P. moyambina</i>         |                 | Bethune--Baker, 1904      | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| <b>HYPOMYRINA Druce, 1891</b>               |                             |                 |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 491   | <i>H. mimetica</i>          |                 | Libert, 2004              | WWQ | MEF | SL  | ooo |    |    |    |    | GOLA | x               | ~               |
| 492   | <i>H. nomion</i>            | <i>nomion</i>   | Staudinger, 1891          | WWQ | DRF | SL  | bum |    |    |    |    | gola |                 |                 |
| <b>DEUDORIX Hewitson, 1863</b>              |                             |                 |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 494   | <i>D. antalus</i>           |                 | Hopffer, 1855             | AFR | GUI | SL  | BUM | ~  | ~  | ~  | *  | gola |                 |                 |
| 495   | <i>D. livia</i>             |                 | Klug, 1834                | WWE | SUD | ~~  | ... |    |    |    |    | ...  |                 |                 |
|   | <i>D. lorisona</i>          | <i>abriana</i>  | Libert, 2004              | "   | "   |     |     |    |    |    |    | ooo  |                 |                 |
| 496   | <i>D. lorisona</i>          | <i>lorisona</i> | Hewitson, 1862            | AFR | ALF | SL  | BUM | ~  | *  | *  | ~  | gola |                 |                 |
| 497   | <i>D. cf. kayonza</i>       |                 | Stempffer, 1956           | WWQ | WEF | SL  | ~~~ |    |    |    |    | ooo  |                 |                 |
| 498   | <i>D. dinochares</i>        |                 | Grose--Smith, 1887        | AFR | GUI | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 499   | <i>D. dinomenes</i>         | <i>diomedes</i> | Jackson, 1966             | AFR | DRF | SL  |     |    |    |    |    | gola |                 |                 |
| 500   | <i>D. odana</i>             | <i>odana</i>    | Druce, 1887               | WWQ | MEF | SL  | BUB |    |    |    |    | GOLA | x               | ~               |
| 501   | <i>D. galathea</i>          |                 | Swainson, 1821            | WWC | ALF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 502   | <i>D. caliginosa</i>        |                 | Lathy, 1903               | WWQ | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>CAPYS Hewitson, 1865</b>                 |                             |                 |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 506   | <i>C. vorgasi</i>           |                 | Larsen & Collins, 2004    | ENV | SPE | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>Subfamily Polyommatae Swainson, 1827</b> |                             |                 |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>Tribe Lycaenesthinae Toxopeus, 1929</b>  |                             |                 |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>ANTHENE Doubleday, 1847</b>              |                             |                 |                           |     |     |     |     |    |    |    |    |      |                 |                 |
| 507   | <i>A. rubricinctus ssp.</i> |                 | Holland, 1891             | WWQ | MEF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | x               | x               |
| 508   | <i>A. ligures</i>           |                 | Hewitson, 1874            | WWQ | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 510   | <i>A. sylvanus</i>          | <i>sylvanus</i> | Drury, 1773               | WWQ | ALF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | x               | x               |
| 512   | <i>A. liodes</i>            |                 | Hewitson, 1874            | AFR | ALF | SL  | BUM | ~  | ** | *  | ~  | GOLA | ~               | x               |
| 513   | <i>A. definita</i>          | <i>definita</i> | Butler, 1899              | AFR | GUI | s1  | ... |    |    |    |    | ...  |                 |                 |
| 514   | <i>A. princeps</i>          | <i>princeps</i> | Butler, 1876              | AFR | GUI | SL@ | BUM | ~  | ~  | ~  | *  | gola |                 |                 |
| 515   | <i>A. starki</i>            |                 | Larsen, 2005              | WWQ | GUI | SL@ | BUB |    |    |    |    | ~~~  |                 |                 |
| 516   | <i>A. amarah</i>            |                 | Guérin--Méneville, 1847   | AFR | SUD | SL  | BUM | ~  | ~  | ** | *  | ~~~  |                 |                 |



| No.                                     | Species                  | Subspecies         | Author                     | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|--------------------------|--------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----------------|-----------------|
| 517                                     | <i>A. lunulata</i>       |                    | Trimen, 1894               | AFR | GUI | SL  | BUM | *   | *   | *** | ** | GOLA | x               | x               |
| 518                                     | <i>A. kikuyu</i>         |                    | Bethune--Baker, 1910       | WWE | GUI | sl  | ... |     |     |     |    | ...  |                 |                 |
| 519                                     | <i>A. talboti</i>        |                    | Stempffer, 1936            | GHE | SUD | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 520                                     | <i>A. wilsoni</i>        |                    | Talbot, 1935               | GHE | GUI | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 521                                     | <i>A. levis</i>          |                    | Hewitson, 1878             | GHQ | ALF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 522                                     | <i>A. irumu</i>          |                    | Stempffer, 1948            | WWQ | ALF | SL  | BUB |     |     |     |    | ooo  |                 |                 |
| 523                                     | <i>A. larydas</i>        |                    | Cramer, 1780               | WWQ | ALF | SL  | BUM | *** | *** | **  | *  | GOLA | x               | x               |
| 524                                     | <i>A. crawshayi</i>      | <i>crawshayi</i>   | Butler, 1899               | WWE | GUI | SL  | BUM | ~   | ~   | ~   | *  | ~~~  |                 |                 |
| 525                                     | <i>A. lachares</i>       | <i>lachares</i>    | Hewitson, 1878             | WWC | MEF | SL  | BUM | **  | ~   | ~   | ~  | GOLA | x               | x               |
| 527                                     | <i>A. lysicles</i>       |                    | Hewitson, 1874             | WWC | WEF | SL  | ~~~ |     |     |     |    | gola |                 |                 |
| 530                                     | <i>A. atewa</i>          |                    | Larsen & Collins, 1998     | ENG | WEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 531                                     | <i>A. flavomaculatus</i> |                    | Grose--Smith & Kirby, 1893 | NIC | MEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 532                                     | <i>A. radiata</i>        |                    | Bethune--Baker, 1910       | ENW | WEF | SL  | ~~~ |     |     |     |    | GOLA | x               | x               |
| 534                                     | <i>A. locuples</i>       |                    | Grose--Smith, 1898         | WWC | MEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 535                                     | <i>A. mahota</i>         |                    | Grose--Smith, 1887         | WWC | WEF | SL@ | ~~~ |     |     |     |    | GOLA | x               | ~               |
| 537                                     | <i>A. scintillula</i>    | <i>aurea</i>       | Bethune--Baker, 1910       | WWQ | WEF | SL  | ~~~ |     |     |     |    | GOLA | x               | x               |
| 538                                     | <i>A. helpsi</i>         |                    | Larsen, 1994               | ENG | WEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 539                                     | <i>A. juba</i>           |                    | Fabricius, 1787            | WWC | MEF | SL  | BUM | *   | ~   | ~   | ~  | GOLA | x               | N               |
| <b>NEURYPEXINA Bethune--Baker, 1910</b> |                          |                    |                            |     |     |     |     |     |     |     |    |      |                 |                 |
| 540                                     | <i>N. lyzanius</i>       |                    | Hewitson, 1874             | WWQ | MEF | SL  | BUM | *** | *   | ~   | ~  | GOLA | x               | x               |
| <b>NEURELLIPES Bethune--Baker, 1910</b> |                          |                    |                            |     |     |     |     |     |     |     |    |      |                 |                 |
| 542                                     | <i>N. lusones</i>        | <i>fulvimacula</i> | Mabille, 1890              | WWQ | MEF | SL  | BUM | ~   | *   | ~   | ~  | gola |                 |                 |
| 543                                     | <i>N. chryseostictus</i> |                    | Bethune--Baker, 1910       | WWQ | MEF | SL  | bum |     |     |     |    | GOLA | ~               | x               |
| 544                                     | <i>N. fulvus</i>         |                    | Stempffer, 1962            | WWC | WEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 545                                     | <i>N. staudingeri</i>    |                    | Grose--Smith & Kirby, 1894 | WWQ | WEF | SL  | BUM | ~   | *   | ~   | ~  | gola |                 |                 |
| 546                                     | <i>N. gemmifera</i>      |                    | Neave, 1910                | WWT | DRF | SL  | ooo |     |     |     |    | ooo  |                 |                 |
| <b>TRICLEMA Karsch, 1893</b>            |                          |                    |                            |     |     |     |     |     |     |     |    |      |                 |                 |
| 547                                     | <i>T. rufoplagata</i>    |                    | Bethune--Baker, 1910       | WWQ | mef | SL  | ~~~ |     |     |     |    | ooo  |                 |                 |
| 548                                     | <i>T. lucretilis</i>     | <i>lucretilis</i>  | Hewitson, 1874             | WWQ | MEF | SL  | BUM | ~   | ~   | *   | ~  | gola |                 |                 |
| 549                                     | <i>T. lamias</i>         | <i>lamias</i>      | Hewitson, 1878             | WWQ | ALF | SL  | BUB |     |     |     |    | gola |                 |                 |
| 550                                     | <i>T. fasciatus</i>      |                    | Aurivillius, 1895          | WWQ | MEF | SL  | BUM | *   | ~   | ~   | ~  | gola |                 |                 |
| 551                                     | <i>T. obscura</i>        |                    | Druce, 1910                | GHQ | MEF | ~~  | ... |     |     |     |    | ...  |                 |                 |

| No.                                    | Species                 | Subspecies       | Author                   | DIS  | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sub>th</sub> | N <sub>th</sub> |
|--|-------------------------|------------------|--------------------------|------|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| 552                                    | <i>T. inconspicua</i>   |                  | Druce, 1910              | WWQ  | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 554                                    | <i>T. hades</i>         |                  | Bethune--Baker, 1910     | WWQ? | MEF | SL  | BUM | ~  | ~  | *  | *  | GOLA | ~               | x               |
| 555                                    | <i>T. phoenicis</i>     |                  | Karsch, 1893             | WWC  | DRF | s1  | ... |    |    |    |    | ...  |                 |                 |
| 556                                    | <i>T. nigeriae</i>      |                  | Aurivillius, 1905        | WWN  | GUI | SL  | ooo |    |    |    |    | ooo  |                 |                 |
| <b>CUPIDESTHES Aurivillius, 1895</b>   |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| 559                                    | <i>C. salvatoris</i>    |                  | Belcastro & Larsen, 2005 | ENL  | WEF | SL  | ~~~ |    |    |    |    | GOLA | x               | N               |
| 560                                    | <i>C. jacksoni</i>      |                  | Stempffer, 1969          | ENG  | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 561                                    | <i>C. mimetica</i>      |                  | Druce, 1910              | ???  | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 562                                    | <i>C. lithas</i>        |                  | Druce, 1890              | WWQ  | MEF | SL  | bum |    |    |    |    | GOLA | ~               | N               |
| 564                                    | <i>C. leonina</i>       |                  | Bethune--Baker, 1903     | WWQ  | MEF | SL  | BUM | ~  | ~  | *  |    | GOLA | x               | ~               |
| 564a                                   | <i>C. pungusei</i>      |                  | Collins & Larsen, 2005   | ENG  | WEF | SL? | ~~~ |    |    |    |    | ooo  |                 |                 |
| <b>Tribe Polyommata Swainson, 1827</b> |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| <b>PSEUDONACADUBA Stempffer, 1944</b>  |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| 565                                    | <i>P. sichela</i>       | <i>sichela</i>   | Wallengren, 1857         | AFR  | UBQ | SL  | BUM | ~  | ~  | ~  | *  | GOLA | x               | N               |
| <b>LAMPIDES Hübner, 1819</b>           |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| 567                                    | <i>L. boeticus</i>      |                  | Linné, 1767              | AFR  | UBQ | SL  | BUB |    |    |    |    | ooo  |                 |                 |
| <b>URANTHAUMA Butler, 1895</b>         |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| 568                                    | <i>U. falkensteini</i>  |                  | Dewitz, 1879             | WWQ  | ALF | SL  | BUM | ** | ** | ** | *  | GOLA | x               | x               |
| 570                                    | <i>U. belcastroi</i>    |                  | Larsen, 1997             | MOW  | MNT | SL  | ~~~ |    |    |    |    | ~~~  |                 |                 |
| <b>PHLYARIA Karsch, 1895</b>           |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| 574                                    | <i>P. cyara</i>         | <i>stactalla</i> | Karsch, 1895             | WWQ  | ALF | SL  | BUM | ~  | ~  | *  | ~  | GOLA | x               | x               |
| <b>CACYREUS Butler, 1898</b>           |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| 575                                    | <i>C. lingeus</i>       |                  | Stoll, 1782              | AFR  | GUI | SL  | BUM | ~  | ~  | *  | ~  | GOLA | ~               | N               |
| 576                                    | <i>C. virilis</i>       |                  | Stempffer, 1936          | AFR  | GUI | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 577                                    | <i>C. audeoudi</i>      |                  | Stempffer, 1936          | WWQ  | MEF | SL  | ~~~ |    |    |    |    | ooo  |                 |                 |
| <b>LEPTOTES Scudder, 1876</b>          |                         |                  |                          |      |     |     |     |    |    |    |    |      |                 |                 |
| 578                                    | <i>L. pirithous</i>     |                  | Linné, 1767              | AFR  | UBQ | SL  | BUM | *  | *  | *  | *  | GOLA | x               | ~               |
| 579                                    | <i>L. babaulti</i>      |                  | Stempffer, 1935          | AFR  | GUI | s1  | bum |    |    |    |    | gola |                 |                 |
| 580                                    | <i>L. jeanneli</i>      |                  | Stempffer, 1935          | AFR  | GUI | s1  | bum |    |    |    |    | gola |                 |                 |
| 581                                    | <i>L. brevidentatus</i> |                  | Tite, 1958               | AFR  | GUI | s1  | bum |    |    |    |    | gola |                 |                 |
| 582                                    | <i>L. pulchra</i>       |                  | Murray, 1874             | AFR  | SPE | s1  | ~~~ |    |    |    |    | ooo  |                 |                 |

| No.                                      | Species                   | Subspecies          | Author                     | DIS | HAB | SL        | BU         | RF | OF | FB | GU | GOLA        | S <sup>th</sup> | N <sup>th</sup> |
|--|---------------------------|---------------------|----------------------------|-----|-----|-----------|------------|----|----|----|----|-------------|-----------------|-----------------|
| <b>TUXENTIUS Larsen, 1982</b>            |                           |                     |                            |     |     |           |            |    |    |    |    |             |                 |                 |
| 583                                      | <i>T. cretosus</i>        | <i>nodieri</i>      | Oberthür, 1883             | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 584                                      | <i>T. carana</i>          | <i>kontu</i>        | Karsch, 1893               | WWC | ALF | <b>SL</b> | <b>BUM</b> | ~  | *  | *  | *  | gola        |                 |                 |
| <b>TARUCUS Moore, 1881</b>               |                           |                     |                            |     |     |           |            |    |    |    |    |             |                 |                 |
| 586                                      | <i>T. ungemachi</i>       |                     | Stempffer, 1942            | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 587                                      | <i>T. theophrastus</i>    |                     | Fabricius, 1793            | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 588                                      | <i>T. rosacea</i>         |                     | Austaut, 1885              | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 589                                      | <i>T. kiki</i>            |                     | Larsen, 1976               | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 590                                      | <i>T. legrasi</i>         |                     | Stempffer, 1948            | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 591                                      | <i>T. balkanicus</i>      | <i>balkanicus</i>   | Freyer, 1843               | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| <b>ACTIZERA Chapman, 1910</b>            |                           |                     |                            |     |     |           |            |    |    |    |    |             |                 |                 |
| 592                                      | <i>A. lucida</i>          |                     | Trimen, 1883               | WWQ | GUI | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| <b>EICOCHRYSOPS Bethune--Baker, 1924</b> |                           |                     |                            |     |     |           |            |    |    |    |    |             |                 |                 |
| 593                                      | <i>E. hippocrates</i>     |                     | Fabricius, 1793            | AFR | SPE | <b>SL</b> | <b>BUM</b> | ** | ~  | *  | ~  | gola        |                 |                 |
| 594                                      | <i>E. dudgeoni</i>        |                     | Riley, 1929                | WWN | GUI | <b>SL</b> | ooo        |    |    |    |    | ~~~         |                 |                 |
| <b>CUPIDOPSIS Karsch, 1895</b>           |                           |                     |                            |     |     |           |            |    |    |    |    |             |                 |                 |
| 595                                      | <i>C. jobates</i>         | <i>mauritanica</i>  | Riley, 1932                | AFR | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 596                                      | <i>C. cissus</i>          | <i>cissus</i>       | Godart, 1824               | AFR | GUI | <b>SL</b> | <b>BUM</b> | ~  | ~  | ~  | *  | ooo         |                 |                 |
| <b>EUCHRYSOPS Butler, 1900</b>           |                           |                     |                            |     |     |           |            |    |    |    |    |             |                 |                 |
| 598                                      | <i>E. albistriata</i>     | <i>greenwoodi</i>   | D'Abrera, 1980             | WWQ | GUI | <b>SL</b> | <b>BUM</b> | ~  | ~  | ~  | ** | ~~~         |                 |                 |
| 600                                      | <i>E. reducta</i>         |                     | Hulstaert, 1924            | WWQ | SUD | s1        | ...        |    |    |    |    | ...         |                 |                 |
| 601                                      | <i>E. malathana</i>       |                     | Boisduval, 1833            | WWE | UBQ | <b>SL</b> | <b>BUM</b> | ~  | ~  | *  | ~  | <b>GOLA</b> | x               | x               |
| 602                                      | <i>E. nilotica</i>        |                     | Aurivillius, 1904          | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 604                                      | <i>E. osiris</i>          |                     | Hopffer, 1855              | AFR | GUI | <b>SL</b> | <b>BUB</b> |    |    |    |    | <b>GOLA</b> | x               | ~               |
| 605                                      | <i>E. barkeri</i>         |                     | Trimen, 1893               | AFR | GUI | <b>SL</b> | <b>BUB</b> |    |    |    |    | ~~~         |                 |                 |
| 606                                      | <i>E. sahelianus</i>      |                     | Libert, 2001               | WWN | SUD | s1        | ...        |    |    |    |    | ...         |                 |                 |
| <b>LEPIDOCHRYSOPS Hedicke, 1923</b>      |                           |                     |                            |     |     |           |            |    |    |    |    |             |                 |                 |
| 607                                      | <i>L. victoriae</i>       | <i>occidentalis</i> | Libert & Collins, 2001     | WWE | GUI | ~~        | ...        |    |    |    |    | ...         |                 |                 |
| 608                                      | <i>L. parsimon</i>        |                     | Fabricius, 1775            | WWC | GUI | <b>SL</b> | ooo        |    |    |    |    | ~~~         |                 |                 |
| 610                                      | <i>L. labeensis</i>       |                     | Larsen & Warren-Gash, 2000 | ENL | GUI | s1        | ...        |    |    |    |    | ...         |                 |                 |
| 611                                      | <i>L. synchronematiza</i> |                     | Bethune--Baker, 1923       | ENW | GUI | <b>SL</b> | ooo        |    |    |    |    | gola        |                 |                 |
| 612                                      | <i>L. polydialecta</i>    |                     | Bethune--Baker, 1923       | WWE | SUD | ~~        | ...        |    |    |    |    | ...         |                 |                 |

| No. | Species                                  | Subspecies      | Author                  | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-----|--|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------------|-----------------|
| 615 | <i>L. quassi quassi</i>                  |                 | Karsch, 1895            | WWC | GUI | ~~  | ... |     |     |     |     | ...  |                 |                 |
|     | <b>THERMONIPHAS Karsch, 1895</b>         |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 617 | <i>T. micylus</i>                        | <i>micylus</i>  | Cramer, 1780            | WWN | MEF | SL  | BUM | *   | **  | **  | ~   | GOLA | x               | ~               |
|     | <b>OBORONIA Karsch, 1893</b>             |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 622 | <i>O. punctatus</i>                      |                 | Dewitz, 1879            | WWQ | MEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 623 | <i>O. liberiana</i>                      |                 | Stempffer, 1950         | ENW | WEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 624 | <i>O. pseudopunctatus</i>                |                 | Strand, 1912            | VOQ | MEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 625 | <i>O. guessfeldti</i>                    |                 | Dewitz, 1879            | WWQ | DRF | SL  | BUM | **  | **  | **  | ~   | gola |                 |                 |
| 626 | <i>O. ornata</i>                         | <i>ornata</i>   | Mabille, 1890           | WWQ | ALF | SL  | BUM | *** | **  | *   | ~   | GOLA | x               | x               |
|     | <b>AZANUS Moore, 1881</b>                |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 627 | <i>A. ubaldus</i>                        |                 | Cramer, 1782            | AFR | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 628 | <i>A. jesous</i>                         |                 | Guérin--Méneville, 1847 | AFR | SUD | SL  | ooo |     |     |     |     | ~~~  |                 |                 |
| 629 | <i>A. moriqua</i>                        |                 | Wallengren, 1857        | AFR | SUD | SL  | BUM | ~   | ~   | **  | *   | ~~~  |                 |                 |
| 630 | <i>A. mirza</i>                          |                 | Plötz, 1880             | AFR | UBQ | SL  | BUM | **  | *** | **  | ~   | GOLA | x               | x               |
| 631 | <i>A. natalensis</i>                     |                 | Trimen, 1887            | GHQ | GUI | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 632 | <i>A. isis</i>                           |                 | Drury, 1773             | WWQ | DRF | SL  | BUM | *** | *** | *** | *** | GOLA | x               | x               |
|     | <b>CHILADES Moore, 1881</b>              |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 633 | <i>C. eleusis</i>                        |                 | Demaison, 1888          | WWE | SUD | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 634 | <i>C. trochylus</i>                      |                 | Freyer, 1843            | AFR | GUI | s1  | ... |     |     |     |     | ...  |                 |                 |
|     | <b>ZIZEERIA Chapman, 1910</b>            |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 635 | <i>Z. knysna</i>                         |                 | Trimen, 1862            | AFR | UBQ | SL  | BUM | ~   | *   | **  | ~   | GOLA | ~               | x               |
|     | <b>ZIZINA Chapman, 1910</b>              |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 636 | <i>Z. antanossa</i>                      |                 | Mabille, 1877           | AFR | GUI | SL@ | BUM | ~   | ~   | **  | ~   | GOLA | ~               | x               |
|     | <b>ZIZULA Chapman, 1910</b>              |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 637 | <i>Z. hylax</i>                          |                 | Fabricius, 1775         | AFR | UBQ | SL@ | BUB |     |     |     |     | gola |                 |                 |
|     | <b>Family RIODINIDAE Grote, 1895</b>     |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
|     | <b>Subfamily Nemeobiinae Bates, 1868</b> |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
|     | <b>ABISARA Felder &amp; Felder, 1860</b> |                 |                         |     |     |     |     |     |     |     |     |      |                 |                 |
| 638 | <i>A. intermedia</i>                     |                 | Aurivillius, 1895       | GHC | WEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 639 | <i>A. tantalus</i>                       | <i>tantalus</i> | Hewitson, 1861          | WWQ | WEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 642 | <i>A. gerontes</i>                       | <i>gerontes</i> | Fabricius, 1781         | WWQ | WEF | SL  | ooo |     |     |     |     | gola |                 |                 |

| No.   | Species              | Subspecies          | Author           | DIS | HAB | SL  | BU  | RF | OF  | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|----------------------|---------------------|------------------|-----|-----|-----|-----|----|-----|-----|-----|------|-----------------|-----------------|
| <b>Family NYMPHALIDAE Swainson, 1827</b>      |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| <b>Subfamily Libytheinae Boisduval, 1833</b>  |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| <b>LIBYTHEA Fabricius, 1807</b>               |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 646   | <i>L. labdaca</i>    | <i>labdaca</i>      | Westwood, 1851   | WWT | ALF | SL  | BUB |    |     |     |     | GOLA | x               | ~               |
| <b>Subfamily Danainae Boisduval, 1833</b>     |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| <b>Tribe Danaini Boisduval, 1833</b>          |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| <b>DANAUS Kluk, 1802</b>                      |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 647   | <i>D. chrysippus</i> | <i>chrysippus</i>   | Linné, 1758      | AFR | UBQ | SL  | BUM | *  | *   | *** | *** | GOLA | x               | x               |
| <b>TIRUMALA Moore, 1880</b>                   |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 648   | <i>T. petiverana</i> |                     | Doubleday, 1847  | AFR | GUI | SL  | BUB |    |     |     |     | gola |                 |                 |
| <b>AMAURIS Hübner, 1816</b>                   |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 650   | <i>A. niavius</i>    | <i>niavius</i>      | Linné, 1758      | AFR | GUI | SL  | BUM | ** | **  | *   | ~   | GOLA | x               | N               |
| 651   | <i>A. tartarea</i>   | <i>tartarea</i>     | Mabille, 1876    | WWT | ALF | SL  | BUM | ** | **  | ~   | ~   | GOLA | x               | N               |
| 652   | <i>A. hecate</i>     | <i>hecate</i>       | Butler, 1866     | WWQ | MEF | SL  | BUM | ** | **  | ~   | ~   | GOLA | ~               | N               |
| 653   | <i>A. damocles</i>   | <i>damocles</i>     | Fabricius, 1793  | WWN | DRF | SL  | BUM | ** | **  | *** | ~   | GOLA | x               | N               |
| <b>Subfamily Satyrinae Boisduval, 1833</b>    |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| <b>Tribe Melanitini Reuter, 1896</b>          |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| <b>GNOPHODES Westwood, 1849</b>               |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 656   | <i>G. betsimena</i>  | <i>parmeno</i>      | Doubleday, 1849  | AFR | ALF | SL  | BUM | *  | *** | ~   | ~   | GOLA | ~               | x               |
| 657   | <i>G. chelys</i>     |                     | Fabricius, 1793  | AFR | ALF | SL  | BUM | ~  | *   | ~   | ~   | GOLA | x               | ~               |
| <b>MELANITIS Fabricius, 1807</b>              |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 658   | <i>M. leda</i>       |                     | Linné, 1758      | AFR | UBQ | SL  | BUM | ** | **  | **  | *   | GOLA | x               | x               |
| 659   | <i>M. libya</i>      |                     | Distant, 1882    | AFR | UBQ | SL@ | BUM | ~  | *   | ~   | ~   | gola |                 |                 |
| 660   | <i>M. ansorgei</i>   |                     | Rothschild, 1904 | WWQ | WEF | ~~  | ... |    |     |     |     | ...  |                 |                 |
| <b>Tribe Elymniini Herrich-Schäffer, 1864</b> |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| <b>ELYMNIOPSIS Fruhstorfer, 1907</b>          |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 661   | <i>E. bammakoo</i>   | <i>bammakoo</i>     | Westwood, 1851   | WWQ | MEF | SL  | BUM | ~  | **  | ~   | ~   | GOLA | x               | x               |
| <b>BICYCLUS Kirby, 1871</b>                   |                      |                     |                  |     |     |     |     |    |     |     |     |      |                 |                 |
| 663   | <i>B. xeneas</i>     | <i>occidentalis</i> |                  | WWQ | ALF | SL  | ~~~ |    |     |     |     | GOLA | x               | N               |
| 665   | <i>B. evadne</i>     | <i>evadne</i>       | Cramer, 1779     | WWQ | WEF | SL  | BUB |    |     |     |     | GOLA | x               | x               |
| 669   | <i>B. ephorus</i>    | <i>ephorus</i>      | Weymer, 1892     | WWQ | WEF | SL  | ~~~ |    |     |     |     | GOLA | ~               | 9               |
| 672   | <i>B. italus</i>     |                     | Hewitson, 1865   | VOC | MEF | ~~  | ... |    |     |     |     | ...  |                 |                 |
| 673   | <i>B. zinebi</i>     |                     | Butler, 1869     | ENW | ALF | SL  | BUM | ~  | *   | ~   | ~   | GOLA | x               | N               |

| No. | Species                          | Subspecies       | Author                  | DIS | HAB | SL  | BU  | RF | OF  | FB  | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-----|----------------------------------|------------------|-------------------------|-----|-----|-----|-----|----|-----|-----|----|------|-----------------|-----------------|
| 674 | <i>B. uniformis</i>              |                  | Bethune--Baker, 1908    | WWQ | WEF | ~~  | ... |    |     |     |    | ...  |                 |                 |
| 678 | <i>B. procora</i>                |                  | Karsch, 1893            | WWQ | MEF | SL  | BUM | *  | ~   | ~   | ~  | GOLA | X               | N               |
| 679 | <i>B. pavonis</i>                |                  | Butler, 1876            | WWE | GUI | SL@ | BUB |    |     |     |    | ~~~  |                 |                 |
| 680 | <i>B. milyas</i>                 |                  | Hewitson, 1864          | WWE | GUI | SL  | BUM | ~  | ~   | ~   | *  | ~~~  |                 |                 |
| 681 | <i>B. trilophus</i>              | <i>jacksoni</i>  | Condamin, 1961          | WWQ | WEF | SL  | ~~~ |    |     |     |    | gola |                 |                 |
| 682 | <i>B. ignobilis</i>              | <i>ignobilis</i> | Butler, 1870            | WWQ | MEF | SL  | ~~~ |    |     |     |    | GOLA | X               | N               |
| 683 | <i>B. maesseni</i>               |                  | Condamin, 1971          | ENG | MEF | ~~  | ... |    |     |     |    | ...  |                 |                 |
| 684 | <i>B. nobilis</i>                |                  | Aurivillius, 1893       | WWC | WEF | SL  | ~~~ |    |     |     |    | GOLA | X               | N               |
| 687 | <i>B. taenias</i>                |                  | Hewitson, 1877          | WWC | ALF | SL  | BUM | ** | **  | *   | ~  | GOLA | X               | X               |
| 690 | <i>B. vulgaris</i>               |                  | Butler, 1868            | WWQ | ALF | SL  | BUM | *  | *** | *** | *  | GOLA | X               | X               |
| 691 | <i>B. dorothea</i>               | <i>dorothea</i>  | Cramer, 1779            | WWC | ALF | SL  | BUM | ** | *** | *** | ~  | GOLA | X               | X               |
| 692 | <i>B. sandace</i>                |                  | Hewitson, 1877          | WWQ | ALF | SL  | BUM | *  | *   | **  | ~  | GOLA | X               | X               |
| 693 | <i>B. sambulos</i>               | <i>unicolor</i>  | Condamin, 1971          | WWQ | WEF | SL  | BUM | ~  | **  | ~   | ~  | GOLA | X               | ~               |
| 694 | <i>B. sangmelinae</i>            |                  | Condamin, 1963          | WWC | MEF | SL  | BUM | ~  | *   | ~   | ~  | GOLA | X               | ~               |
| 695 | <i>B. mandanes</i>               |                  | Hewitson, 1873          | WWQ | DRF | SL  | BUM | ~  | ~   | *   | ~  | gola |                 |                 |
| 696 | <i>B. auricruda</i>              | <i>auricruda</i> | Butler, 1868            | WWQ | MEF | SL@ | ~~~ |    |     |     |    | gola |                 |                 |
| 697 | <i>B. campa</i>                  |                  | Karsch, 1893            | WWE | GUI | SL@ | BUB |    |     |     |    | ~~~  |                 |                 |
| 698 | <i>B. angulosa</i>               | <i>angulosa</i>  | Butler, 1868            | AFR | GUI | SL  | BUB |    |     |     |    | ~~~  |                 |                 |
| 699 | <i>B. sylvicolus</i>             |                  | Condamin, 1965          | VOC | MEF | ~~  | ... |    |     |     |    | ...  |                 |                 |
| 700 | <i>B. abnormis</i>               |                  | Dudgeon, 1909           | ENW | MEF | SL  | ~~~ |    |     |     |    | GOLA | ~               | N               |
| 701 | <i>B. safitza</i>                | <i>safitza</i>   | Hewitson, 1851          | AFR | GUI | SL  | BUB |    |     |     |    | gola |                 |                 |
| 702 | <i>B. funebris</i>               |                  | Guérin--Méneville, 1844 | WWQ | DRF | SL  | BUM | *  | **  | **  | *  | gola |                 |                 |
| 704 | <i>B. dekeyseri</i>              |                  | Condamin, 1958          | ENW | WEF | SL@ | ~~~ |    |     |     |    | GOLA | ~               | N               |
| 705 | <i>B. istaris</i>                |                  | Plötz, 1880             | WWQ | MEF | SL  | BUM | ~  | **  | ~   | ~  | gola |                 |                 |
| 707 | <i>B. madetes</i>                | <i>madetes</i>   | Hewitson, 1874          | WWQ | MEF | SL  | BUM | ~  | **  | ~   | ~  | GOLA | X               | N               |
| 709 | <i>B. martius</i>                | <i>martius</i>   | Fabricius, 1793         | WWQ | MEF | SL  | BUM | *  | **  | ~   | ~  | GOLA | X               | N               |
|     | <b>HALLELESIS Condamin, 1961</b> |                  |                         |     |     |     |     |    |     |     |    |      |                 |                 |
| 712 | <i>H. halyma</i>                 |                  | Fabricius, 1793         | ENW | WEF | SL  | BUB |    |     |     |    | GOLA | X               | X               |
|     | <b>HENOTESIA Butler, 1879</b>    |                  |                         |     |     |     |     |    |     |     |    |      |                 |                 |
| 713 | <i>H. elisi</i>                  |                  | Karsch, 1893            | ENW | DRF | SL  | ~~~ |    |     |     |    | ~~~  |                 |                 |

| No.                                      | Species                | Subspecies          | Author                | DIS | HAB | SL  | BU  | RF | OF  | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--|------------------------|---------------------|-----------------------|-----|-----|-----|-----|----|-----|----|----|------|-----------------|-----------------|
| <b>HETEROPSIS Westwood, 1850</b>         |                        |                     |                       |     |     |     |     |    |     |    |    |      |                 |                 |
| 714                                      | <i>H. peitho</i>       |                     | Plötz, 1880           | WWQ | WEF | SL  | ooo |    |     |    |    | gola |                 |                 |
| <b>Tribe Satyrini Boisduval, 1833</b>    |                        |                     |                       |     |     |     |     |    |     |    |    |      |                 |                 |
| <b>YPTHIMA Hübner, 1818</b>              |                        |                     |                       |     |     |     |     |    |     |    |    |      |                 |                 |
| 715                                      | <i>Y. asterope</i>     | <i>asterope</i>     | Klug, 1832            | AFR | SUD | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 716                                      | <i>Y. condamini</i>    | <i>nigeriae</i>     | Kielland, 1982        | AFR | GUI | sl  | ... |    |     |    |    | ...  |                 |                 |
| 717                                      | <i>Y. antennata</i>    | <i>cornesi</i>      | Kielland, 1982        | AFR | ALF | sl  | ... |    |     |    |    | ...  |                 |                 |
| 718                                      | <i>Y. vuattouxi</i>    |                     | Kielland, 1982        | WWN | GUI | sl  | ... |    |     |    |    | ...  |                 |                 |
| 719                                      | <i>Y. doleta</i>       |                     | Kirby, 1880           | WWQ | ALF | SL  | BUM | ** | **  | ** | ~  | GOLA | x               | x               |
| 720                                      | <i>Y. lamto</i>        |                     | Kielland, 1982        | GHC | DRF | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 721                                      | <i>Y. pupillaris</i>   | <i>pupillaris</i>   | Butler, 1888          | AFR | GUI | SL@ | BUM | ~  | ~   | ~  | *  | ...  |                 |                 |
| 722                                      | <i>Y. impura</i>       | <i>impura</i>       | Elwes & Edwards, 1893 | AFR | GUI | SL@ | BUM | ~  | ~   | ~  | *  | ~~~  |                 |                 |
| <b>YPTHIMOMORPHA van Son, 1955</b>       |                        |                     |                       |     |     |     |     |    |     |    |    |      |                 |                 |
| 724                                      | <i>Y. itonia</i>       |                     | Hewitson, 1865        | AFR | SPE | SL  | BUM | ~  | *   | ** | *  | gola |                 |                 |
| <b>Subfamily Charaxinae Guenée, 1865</b> |                        |                     |                       |     |     |     |     |    |     |    |    |      |                 |                 |
| <b>Tribe Charaxini Guenée, 1865</b>      |                        |                     |                       |     |     |     |     |    |     |    |    |      |                 |                 |
| <b>CHARAXES Ochsenheimer, 1816</b>       |                        |                     |                       |     |     |     |     |    |     |    |    |      |                 |                 |
| 725                                      | <i>C. varanes</i>      | <i>vologeses</i>    | Mabille, 1876         | AFR | GUI | SL  | BUM | ** | **  | ~  | *  | ooo  |                 |                 |
| 726                                      | <i>C. fulvescens</i>   | <i>senegala</i>     | van Someren, 1975     | WWT | ALF | SL  | BUM | ~  | **  | *  | ~  | GOLA | x               | N               |
| 728                                      | <i>C. candiope</i>     | <i>candiope</i>     | Godart, 1824          | WWQ | DRF | SL  | BUM | *  | ~   | ~  | ~  | ooo  |                 |                 |
| 729                                      | <i>C. protoclea</i>    | <i>protoclea</i>    | Feisthamel, 1850      | WWT | ALF | SL  | BUM | *  | *   | *  | ~  | GOLA | x               | x               |
| 730                                      | <i>C. boueti</i>       |                     | Feisthamel, 1850      | WWC | DRF | SL  | BUM | ~  | ~   | *  | ~  | gola |                 |                 |
| 731                                      | <i>C. cynthia</i>      | <i>cynthia</i>      | Butler, 1866          | WWQ | ALF | SL  | BUM | ** | *** | ** | ~  | GOLA | x               | N               |
| 732                                      | <i>C. lucretius</i>    | <i>lucretius</i>    | Cramer, 1775          | WWQ | ALF | SL  | BUM | *  | *** | ** | ~  | GOLA | x               | x               |
| 733                                      | <i>C. lactetinctus</i> | <i>lactetinctus</i> | Karsch, 1892          | WWE | GUI | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 734                                      | <i>C. epijasius</i>    |                     | Reiche, 1850          | WWE | GUI | SL  | BUB |    |     |    |    | ~~~  |                 |                 |
| 735                                      | <i>C. legeri</i>       |                     | Plantrou, 1978        | ENW | GUI | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 736                                      | <i>C. castor</i>       | <i>castor</i>       | Cramer, 1775          | WWT | DRF | SL  | BUM | ~  | **  | ** | *  | GOLA | ~               | N               |
| 737                                      | <i>C. brutus</i>       | <i>brutus</i>       | Cramer, 1779          | WWT | DRF | SL  | BUM | ~  | *** | ** | *  | GOLA | x               | x               |
| 738                                      | <i>C. pollux</i>       | <i>pollux</i>       | Cramer, 1775          | WWT | MEF | SL  | BUM | ~  | *** | *  | ~  | GOLA | x               | ~               |
|  | <i>C. eudoxus</i>      | <i>goubandana</i>   | Nicat, 2002           | "   | "   |     |     |    |     |    |    |      |                 |                 |
| 740                                      | <i>C. eudoxus</i>      | <i>eudoxus</i>      | Drury, 1782           | WWQ | ALF | SL  | ~~~ |    |     |    |    | gola |                 |                 |

| No. | Species                | Subspecies         | Author                   | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-----|------------------------|--------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----------------|-----------------|
| 741 | <i>C. tiridates</i>    | <i>tiridates</i>   | Cramer, 1777             | WWQ | ALF | SL  | BUM | *** | *** | *** | ** | GOLA | X               | X               |
| 742 | <i>C. bipunctatus</i>  | <i>bipunctatus</i> | Rothschild, 1894         | WWQ | WEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 743 | <i>C. numenes</i>      | <i>numenes</i>     | Hewitson, 1859           | WWQ | ALF | SL  | BUM | ~   | *** | **  | ~  | GOLA | ~               | 9               |
| 744 | <i>C. smaragdalis</i>  | <i>butleri</i>     | Rothschild, 1900         | WWQ | ALF | SL  | ~~~ |     |     |     |    | GOLA | ~               | 9               |
| 745 | <i>C. imperialis</i>   | <i>imperialis</i>  | Butler, 1874             | WWQ | DRF | SL  | ~~~ |     |     |     |    | GOLA | ~               | 9               |
| 746 | <i>C. ameliae</i>      | <i>doumeti</i>     | Henning, 1989            | WWQ | ALF | SL  | BUM | ~   | *** | **  | ~  | GOLA | X               | N               |
| 747 | <i>C. pythodoris</i>   | <i>davidi</i>      | Plantrou, 1973           | WWQ | DRF | SL  | ~~~ |     |     |     |    | gola |                 |                 |
| 748 | <i>C. hadrianus</i>    |                    | Ward, 1871               | WWQ | WEF | SL  | ~~~ |     |     |     |    | GOLA | ~               | N               |
| 750 | <i>C. nobilis</i>      | <i>claudei</i>     | le Moutl, 1933           | WWQ | WEF | SL@ | BUM | ~   | ~   | *   | ~  | GOLA | ~               | 9               |
| 752 | <i>C. fournierae</i>   | <i>jolybouyeri</i> | Vingerhoedt, 1998        | WWQ | WEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 753 | <i>C. zingha</i>       |                    | Stoll, 1780              | WWQ | MEF | SL  | BUM | ~   | **  | ~   | ~  | GOLA | X               | N               |
| 754 | <i>C. etesipe</i>      | <i>etesipe</i>     | Godart, 1824             | AFR | DRF | SL  | BUM | *   | *** | **  | ~  | GOLA | X               | N               |
| 755 | <i>C. achaemenes</i>   | <i>atlantica</i>   | van Someren, 1970        | AFR | GUI | SL  | BUM | ~   | ~   | *   | *  | ~~~  |                 |                 |
| 756 | <i>C. eupale</i>       | <i>eupale</i>      | Drury, 1782              | WWQ | ALF | SL  | BUM | **  | *** | *   |    | GOLA | X               | X               |
| 757 | <i>C. subornatus</i>   | <i>couilloudi</i>  | Plantrou, 1976           | WWQ | WEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 758 | <i>C. anticlea</i>     | <i>anticlea</i>    | Drury, 1782              | WWQ | ALF | SL  | BUM | *   | *** | ~   | ~  | gola |                 |                 |
| 759 | <i>C. hildebrandti</i> | <i>gillesi</i>     | Plantrou, 1973           | WWC | MEF | SL  | ~~~ |     |     |     |    | gola |                 |                 |
| 760 | <i>C. etheocles</i>    | <i>etheocles</i>   | Cramer, 1777             | WWQ | ALF | SL  | BUM | ~   | *   | *   | ~  | GOLA | X               | N               |
| 762 | <i>C. petersi</i>      |                    | van Someren, 1969        | ENW | WEF | SL  | ~~~ |     |     |     |    | gola |                 |                 |
| 763 | <i>C. angelae</i>      |                    | Minig, 1975              | ENW | MEF | SL  | ~~~ |     |     |     |    | GOLA | X               | N               |
| 765 | <i>C. bocqueti</i>     | <i>bocqueti</i>    | Minig, 1975              | WWC | MEF | SL  | ~~~ |     |     |     |    | GOLA | ~               | N               |
| 766 | <i>C. dreuxi</i>       |                    | Bouche & Minig, 1977     | ENL | WEF | s1  | ... |     |     |     |    | ...  |                 |                 |
| 767 | <i>C. virilis</i>      | <i>virilis</i>     | van Som. & Jackson, 1952 | WWQ | MEF | SL  | BUM | ~   | ~   | ~   | *  | gola |                 |                 |
| 768 | <i>C. cedreatis</i>    |                    | Hewitson, 1874           | WWQ | MEF | SL  | BUM | ~   | **  | ~   | ~  | gola |                 |                 |
| 769 | <i>C. plantroui</i>    |                    | Minig, 1975              | ENW | DRF | SL  | ooo |     |     |     |    | ~~~  |                 |                 |
| 770 | <i>C. viola</i>        | <i>viola</i>       | Butler, 1866             | WWQ | SUD | SL  | BUB |     |     |     |    | ~~~  |                 |                 |
| 771 | <i>C. northcotti</i>   |                    | Rothschild, 1899         | WWC | GUI | SL@ | BUM | ~   | ~   | ~   | *  | ~~~  |                 |                 |
| 772 | <i>C. pleione</i>      | <i>pleione</i>     | Godart, 1824             | WWT | ALF | SL  | ooo |     |     |     |    | gola |                 |                 |
| 773 | <i>C. paphianus</i>    | <i>falcata</i>     | Butler, 1872             | WWQ | MEF | SL  | ooo |     |     |     |    | gola |                 |                 |
| 774 | <i>C. nichetes</i>     | <i>bouchei</i>     | Grose-Smith, 1883        | WWQ | ALF | SL  | BUB |     |     |     |    | GOLA | ~               | N               |
|     | <i>C. nichetes</i>     | <i>leopardinus</i> | Plantrou, 1974           | "   | "   |     |     |     |     |     |    |      |                 |                 |
| 775 | <i>C. porthos</i>      | <i>gallayi</i>     | Grose-Smith, 1883        | WWQ | MEF | SL  | ~~~ |     |     |     |    | gola |                 |                 |



| No.  | Species  | Subspecies         | Author            | DIS | HAB | SL | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|------|--|--------------------|-------------------|-----|-----|----|-----|----|----|----|----|------|-----------------|-----------------|
| 776  | <i>C. zelica</i>                                 | <i>zelica</i>      | Butler, 1869      | WWQ | WEF | SL | BUB |    |    |    |    | gola |                 |                 |
| 777  | <i>C. lycurgus</i>                               | <i>lycurgus</i>    | Fabricius, 1793   | WWQ | ALF | SL | BUM | *  | ~  | ~  | ~  | gola |                 |                 |
| 778  | <i>C. mycerina</i>                               | <i>mycerina</i>    | Godart, 1824      | WWQ | WEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
| 779  | <i>C. doubledayi</i>                             |                    | Aurivillius, 1898 | WWQ | WEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
|      | <b>Tribe Euxanthini Rydon, 1971</b>              |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
|      | <b>EUXANTHE Hübner, 1819</b>                     |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 780  | <i>E. eurinome</i>                               | <i>eurinome</i>    | Cramer, 1775      | WWQ | ALF | SL | BUM | *  | ** | *  | *  | GOLA | x               | N               |
|      | <b>Tribe Pallini Rydon, 1971</b>                 |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
|      | <b>PALLA Hübner, 1819</b>                        |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 783  | <i>P. violinitens</i>                            | <i>violinitens</i> | Crowley, 1890     | WWQ | MEF | SL | BUM | *  | *  | ~  | ~  | GOLA | x               | N               |
| 784  | <i>P. decius</i>                                 |                    | Cramer, 1777      | WWQ | MEF | SL | BUM | *  | ** | ~  | ~  | gola |                 |                 |
| 785  | <i>P. ussheri</i>                                | <i>ussheri</i>     | Butler, 1870      | WWQ | ALF | SL | BUB |    |    |    |    | GOLA | ~               | N               |
| 786  | <i>P. publius</i>                                | <i>publius</i>     | Staudinger, 1892  | WWQ | MEF | SL | BUB |    |    |    |    | gola |                 |                 |
|      | <b>Subfamily APATURINAE Boisduval, 1840</b>      |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
|      | <b>APATUROPSIS Aurivillius, 1898</b>             |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 786a | <i>A. cleochares</i>                             | <i>cleochares</i>  | Hewitson, 1873    | WWT | MEF | SL | ~~~ |    |    |    |    | gola |                 |                 |
|      | <b>Subfamily Nymphalinae Swainson, 1827</b>      |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
|      | <b>Tribal status uncertain</b>                   |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
|      | <b>KALLIMOIDES Shirôzu &amp; Nakanishi, 1984</b> |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 787  | <i>K. rumia</i>                                  | <i>rumia</i>       | Doubleday, 1849   | WWQ | ALF | SL | BUM | ** | ~  | ~  | ~  | GOLA | x               | N               |
|      | <b>VANESSULA Dewitz, 1887</b>                    |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 788  | <i>V. milca</i>                                  | <i>milca</i>       | Hewitson, 1873    | WWQ | MEF | SL | ~~~ |    |    |    |    | ooo  |                 |                 |
|      | <b>Tribe Nymphalini Swainson, 1827</b>           |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
|      | <b>ANTANARTIA Rothschild &amp; Jordan, 1903</b>  |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 789  | <i>A. delius</i>                                 | <i>delius</i>      | Drury, 1782       | WWQ | MEF | SL | BUB |    |    |    |    | GOLA | x               | N               |
|      | <b>VANESSA Fabricius, 1807</b>                   |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 791  | <i>V. cardui</i>                                 |                    | Linné, 1758       | AFR | UBQ | SL | BUB |    |    |    |    | ooo  |                 |                 |
|      | <b>Tribe Junoniini Reuter, 1896</b>              |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
|      | <b>PRECIS Hübner, 1819</b>                       |                    |                   |     |     |    |     |    |    |    |    |      |                 |                 |
| 792  | <i>P. octavia</i>                                | <i>octavia</i>     | Cramer, 1777      | AFR | GUI | SL | BUB |    |    |    |    | gola |                 |                 |
| 793  | <i>P. antilope</i>                               |                    | Feisthamel, 1850  | AFR | GUI | SL | ooo |    |    |    |    | ooo  |                 |                 |
| 794  | <i>P. frobeniusi</i>                             |                    | Strand, 1909      | WWN | SPE | SL | ~~~ |    |    |    |    | ~~~  |                 |                 |
| 795  | <i>P. coelestina</i>                             |                    | Dewitz, 1879      | WWE | MNT | SL | ~~~ |    |    |    |    | ~~~  |                 |                 |

| No.                                      | Species               | Subspecies              | Author                    | DIS | HAB | SL | BU  | RF  | OF  | FB  | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--|-----------------------|-------------------------|---------------------------|-----|-----|----|-----|-----|-----|-----|----|------|-----------------|-----------------|
| 796                                      | <i>P. ceryne</i>      | <i>ceruana</i>          | Rothschild & Jordan, 1903 | AFR | UBQ | sl | ... |     |     |     |    | ...  |                 |                 |
| 797                                      | <i>P. pelarga</i>     |                         | Fabricius, 1775           | WWQ | ALF | SL | BUM | ~   | ~   | **  | *  | GOLA | x               | x               |
| 798                                      | <i>P. sinuata</i>     |                         | Plötz, 1880               | WWQ | WEF | SL | BUB |     |     |     |    | GOLA | ~               | N               |
| <b>HYPOLIMNAS Hübner, 1819</b>           |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| 801                                      | <i>H. misippus</i>    |                         | Linné, 1764               | AFR | UBQ | SL | BUM | *   | *   | *** | ** | GOLA | x               | x               |
| 802                                      | <i>H. anthedon</i>    | <i>anthedon</i>         | Doubleday, 1845           | WWT | ALF | SL | BUB |     |     |     |    | GOLA | x               | x               |
| 803                                      | <i>H. dinarcha</i>    | <i>dinarcha</i>         | Hewitson, 1865            | WWQ | MEF | SL | BUM | *   | ~   | ~   | ~  | gola |                 |                 |
| 805                                      | <i>H. aubergeri</i>   |                         | Hecq, 1987                | ENL | WEF | ~~ | ... |     |     |     |    | ...  |                 |                 |
| 806                                      | <i>H. salmacidis</i>  | <i>salmacidis</i>       | Drury, 1773               | WWQ | ALF | SL | BUM | **  | *** | *** | ~  | GOLA | x               | x               |
| <b>SALAMIS Boisduval, 1833</b>           |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| 808                                      | <i>S. cacta</i>       | <i>cacta</i>            | Fabricius, 1793           | WWT | ALF | SL | BUM | **  | *** | **  | ~  | GOLA | x               | x               |
| <b>PROTOGONIOMORPHA Wallengren, 1857</b> |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| 809                                      | <i>P. cytora</i>      |                         | Doubleday, 1847           | ENW | ALF | SL | ~~~ |     |     |     |    | gola |                 |                 |
| 811                                      | <i>P. parhassus</i>   |                         | Drury, 1782               | AFR | ALF | SL | BUM | **  | *** | *   | ~  | GOLA | x               | x               |
| 812                                      | <i>P. anacardii</i>   | <i>anacardii</i>        | Linné, 1758               | AFR | DRF | SL | ooo |     |     |     |    | ooo  |                 |                 |
| <b>JUNONIA Hübner, 1819</b>              |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| 813                                      | <i>J. orithya</i>     | <i>madagascariensis</i> |                           | AFR | SUD | SL | BUB |     |     |     |    | ~~~  |                 |                 |
| 814                                      | <i>J. oenone</i>      | <i>oenone</i>           | Linné, 1758               | AFR | UBQ | SL | BUM | *   | *   | *** | ** | GOLA | x               | x               |
| 815                                      | <i>J. hierta</i>      | <i>cebrene</i>          | Trimen, 1870              | AFR | SUD | SL | BUB |     |     |     |    | ~~~  |                 |                 |
| 816                                      | <i>J. cymodoce</i>    | <i>cymodoce</i>         | Cramer, 1777              | WWQ | MEF | ~~ | ... |     |     |     |    | ...  |                 |                 |
| 817                                      | <i>J. westermanni</i> | <i>westermanni</i>      | Westwood, 1870            | WWQ | DRF | ~~ | ... |     |     |     |    | ...  |                 |                 |
| 818                                      | <i>J. hadrope</i>     |                         | Doubleday, 1847           | ENV | MEF | ~~ | ... |     |     |     |    | ...  |                 |                 |
| 819                                      | <i>J. sophia</i>      | <i>sophia</i>           | Fabricius, 1793           | WWQ | ALF | SL | BUM | **  | **  | *** | *  | GOLA | x               | x               |
| 820                                      | <i>J. stygia</i>      |                         | Aurivillius, 1894         | WWQ | ALF | SL | BUM | *** | *** | *** | ~  | GOLA | x               | x               |
| 822                                      | <i>J. chorimene</i>   |                         | Guérin-Méneville, 1844    | WWE | GUI | SL | BUM | ~   | *   | **  | ** | ~~~  |                 |                 |
| 823                                      | <i>J. terea</i>       | <i>terea</i>            | Drury, 1773               | WWQ | ALF | SL | BUM | *** | *** | *** | ** | GOLA | x               | x               |
| <b>CATACROPTERA Karsch, 1894</b>         |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| 824                                      | <i>C. cloanthe</i>    | <i>ligata</i>           | Rothschild & Jordan, 1903 | AFR | GUI | SL | BUM | ~   | ~   | ~   | *  | GOLA | ~               | N               |
| <b>Subfamily Cyrestinae Guenée, 1865</b> |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| <b>Tribe Cyrestini Guenée, 1865</b>      |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| <b>CYRESTIS Boisduval, 1832</b>          |                       |                         |                           |     |     |    |     |     |     |     |    |      |                 |                 |
| 825                                      | <i>C. camillus</i>    | <i>camillus</i>         | Fabricius, 1781           | WWT | ALF | SL | BUM | **  | **  | **  | ~  | GOLA | x               | x               |

| No.   | Species                 | Subspecies           | Author                | DIS | HAB | SL | BU  | RF  | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|-------------------------|----------------------|-----------------------|-----|-----|----|-----|-----|----|----|----|------|-----------------|-----------------|
| <b>Subfamily Biblidinae Boisduval, 1833</b> |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| <b>Tribe Eurytelini Doubleday, 1845</b>     |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| <b>BYBLIA Hübner, 1819</b>                  |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 826   | <i>B. anvatara</i>      | <i>crameri</i>       | Aurivillius, 1894     | AFR | UBQ | SL | BUM | *   | *  | ** | *  | GOLA | x               | x               |
| 827   | <i>B. ilithyia</i>      |                      | Drury, 1773           | AFR | SUD | ~~ | ... |     |    |    |    | ...  |                 |                 |
| <b>MESOXANTHA Aurivillius, 1898</b>         |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 828   | <i>M. ethosea</i>       | <i>ethosea</i>       | Drury, 1782           | WWQ | MEF | SL | BUB |     |    |    |    | GOLA | x               | N               |
| <b>ARIADNE Horsfield, 1829</b>              |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 829   | <i>A. enotrea</i>       | <i>enotrea</i>       | Cramer, 1779          | WWQ | ALF | SL | BUM | ~   | ~  | *  | ~  | GOLA | x               | x               |
| 830   | <i>A. albifascia</i>    |                      | Joicey & Talbot, 1921 | WWQ | ALF | SL | BUM | **  | ** | *  | ~  | GOLA | x               | x               |
| <b>NEPTIDOPSIS Aurivillius, 1898</b>        |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 833   | <i>N. ophione</i>       | <i>ophione</i>       | Cramer, 1777          | WWT | ALF | SL | BUM | ~   | *  | ~  | ~  | GOLA | x               | x               |
| <b>EURYTELA Boisduval, 1833</b>             |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 834   | <i>E. dryope</i>        | <i>dryope</i>        | Cramer, 1775          | WWT | DRF | SL | BUM | *   | *  | *  | *  | gola |                 |                 |
| 836   | <i>E. hiarbas</i>       | <i>hiarbas</i>       | Drury, 1782           | WWT | MEF | SL | BUB |     |    |    |    | gola |                 |                 |
| <b>Tribe Epicaliini Guenée, 1865</b>        |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| <b>SEVENIA Koçak, 1996</b>                  |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 837   | <i>S. occidentarium</i> | <i>occidentarium</i> | Mabille, 1876         | WWQ | ALF | SL | BUB |     |    |    |    | GOLA | x               | ~               |
| 838   | <i>S. boisduvali</i>    | <i>omissa</i>        | Rothschild, 1918      | AFR | ALF | SL | BUM | ~   | ~  | *  | ~  | gola |                 |                 |
| 839   | <i>S. umbrina</i>       |                      | Karsch, 1892          | WWQ | DRF | SL | BUM | ~   | ~  | *  | *  | ~~~  |                 |                 |
| <b>Subfamily Limenitidinae Behr, 1864</b>   |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| <b>Tribe Limenitidini Behr, 1864</b>        |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| <b>HARMA Doubleday, 1848</b>                |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 843   | <i>H. theobene</i>      | <i>theobene</i>      | Doubleday, 1848       | WWQ | MEF | SL | BUM | *   | ~  | ** | ~  | GOLA | ~               | x               |
| <b>CYMOTHOE Hübner, 1819</b>                |                         |                      |                       |     |     |    |     |     |    |    |    |      |                 |                 |
| 846   | <i>C. fumana</i>        | <i>fumana</i>        | Westwood, 1850        | WWC | MEF | SL | ~~~ |     |    |    |    | GOLA | x               | N               |
| 851   | <i>C. egesta</i>        | <i>egesta</i>        | Cramer, 1775          | WWQ | MEF | SL | BUM | *** | ** | ~  | ~  | GOLA | x               | x               |
| 853   | <i>C. lurida</i>        | <i>lurida</i>        | Butler, 1871          | WWQ | WEF | ~~ | ... |     |    |    |    | ...  |                 |                 |
| 857   | <i>C. adela</i>         |                      | Staudinger, 1890      | ENL | MEF | SL | ~~~ |     |    |    |    | gola |                 |                 |
| 858   | <i>C. aubergeri</i>     |                      | Plantrou, 1977        | ENG | MEF | ~~ | ... |     |    |    |    | ...  |                 |                 |
| 859   | <i>C. herminia</i>      | <i>gongoa</i>        | Fox, 1965             | WWQ | MEF | SL | ~~~ |     |    |    |    | GOLA | ~               | 9               |
| 860   | <i>C. weymeri</i>       | <i>mulatta</i>       | Suffert, 1904         | WWQ | MEF | ~~ | ... |     |    |    |    | ...  |                 |                 |

| No.  | Species                           | Subspecies         | Author            | DIS  | HAB | SL  | BU  | RF  | OF  | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|------|-----------------------------------|--------------------|-------------------|------|-----|-----|-----|-----|-----|----|----|------|-----------------|-----------------|
| 863  | <i>C. caenis</i>                  |                    | Drury, 1773       | WWQ  | ALF | SL  | BUM | ~   | ~   | *  | ~  | GOLA | X               | N               |
| 866  | <i>C. althea</i>                  | <i>althea</i>      | Cramer, 1776      | WWN  | MEF | SL  | ~~~ |     |     |    |    | GOLA | X               | X               |
| 868  | <i>C. jodutta</i>                 | <i>jodutta</i>     | Ward, 1850        | WWQ  | MEF | SL  | BUB |     |     |    |    | GOLA | X               | X               |
| 870  | <i>C. hartigi</i>                 | <i>hartigi</i>     | Belcastro, 1990   | ENL  | WEF | SL  | ooo |     |     |    |    | GOLA | ~               | N               |
|      | <i>C. hartigi</i>                 | <i>vanessae</i>    | Warren-Gash, 2004 | "    | "   |     |     |     |     |    |    |      |                 |                 |
| 872  | <i>C. coccinata</i>               | <i>coccinata</i>   | Hewitson, 1874    | WWQ  | MEF | ~~  | ... |     |     |    |    | ...  |                 |                 |
| 873  | <i>C. mabillei</i>                |                    | Overlaet, 1944    | ENW  | MEF | SL  | BUM | **  | **  | ~  | ~  | GOLA | X               | N               |
| 878  | <i>C. sangaris</i>                |                    | Godart, 1824      | WWQ  | MEF | SL  | BUM | *   | ~   | ~  | ~  | GOLA | ~               | N               |
| 878a | <i>C. cf. sangaris</i>            |                    |                   | ENG  | WEF | ~~  | ... |     |     |    |    | ...  |                 |                 |
|      | <b>PSEUDONEPTIS Snellen, 1882</b> |                    |                   |      |     |     |     |     |     |    |    |      |                 |                 |
| 879  | <i>P. bugandensis</i>             | <i>ianthe</i>      | Hemming, 1964     | WWQ  | ALF | SL  | BUM | *** | *** | *  | ~  | GOLA | X               | N               |
|      | <b>PSEUDACRAEA Westwood, 1850</b> |                    |                   |      |     |     |     |     |     |    |    |      |                 |                 |
| 880  | <i>P. eurytus</i>                 |                    | Linné, 1758       | WWQ  | ALF | SL  | BUM | *   | **  | ~  | ~  | GOLA | X               | N               |
| 884  | <i>P. boisduvalii</i>             | <i>boisduvalii</i> | Doubleday, 1845   | WWT  | DRF | SL  | BUB |     |     |    |    | GOLA | ~               | X               |
| 887  | <i>P. lucretia</i>                | <i>lucretia</i>    | Cramer, 1775      | AFR  | ALF | SL  | BUM | **  | *** | ** | ~  | GOLA | X               | X               |
| 888  | <i>P. warburgi</i>                |                    | Aurivillius, 1892 | WWQ  | MEF | SL  | ~~~ |     |     |    |    | GOLA | ~               | N               |
| 889  | <i>P. hostilia</i>                |                    | Drury, 1782       | ENW  | WEF | SL  | BUB |     |     |    |    | GOLA | X               | ~               |
| 900  | <i>P. semire</i>                  |                    | Cramer, 1779      | WWQ  | ALF | SL  | BUM | ~   | *** | *  | ~  | GOLA | X               | X               |
|      | <b>NEPTIS Fabricius, 1807</b>     |                    |                   |      |     |     |     |     |     |    |    |      |                 |                 |
| 901  | <i>N. nemetes</i>                 | <i>nemetes</i>     | Hewitson, 1868    | WWQ  | ALF | SL  | BUM | **  | **  | *  | ~  | GOLA | X               | X               |
| 903  | <i>N. metella</i>                 | <i>metella</i>     | Doubleday, 1848   | WWQ  | ALF | SL  | BUM | *** | *** | *  | ~  | GOLA | X               | X               |
| 905  | <i>N. serena</i>                  | <i>serena</i>      | Overlaet, 1955    | AFR  | DRF | SL  | BUM | ~   | ~   | ** | *  | gola |                 |                 |
| 906  | <i>N. kiriakoffi</i>              |                    | Overlaet, 1955    | AFR  | GUI | SL  | BUM | ~   | ~   | ** | ** | gola |                 |                 |
| 907  | <i>N. morosa</i>                  |                    | Overlaet, 1955    | AFR  | GUI | SL  | BUM | ~   | ~   | ~  | *  | gola |                 |                 |
| 908  | <i>N. loma</i>                    |                    | Condamin, 1971    | WWN  | MEF | SL  | ooo |     |     |    |    | gola |                 |                 |
| 910  | <i>N. angusta</i>                 |                    | Condamin, 1966    | VOQ  | WEF | ~~  | ... |     |     |    |    | ...  |                 |                 |
| 911  | <i>N. alta</i>                    |                    | Overlaet, 1955    | WWT  | MEF | SL  | BUM | ~   | ~   | *  | ~  | gola |                 |                 |
| 912  | <i>N. seeldrayersi</i>            |                    | Aurivillius, 1895 | WWQ  | MEF | ~~  | ... |     |     |    |    | ...  |                 |                 |
| 913  | <i>N. puella</i>                  |                    | Aurivillius, 1894 | WWQ  | MEF | SL  | ooo |     |     |    |    | GOLA | X               | ~               |
| 914  | <i>N. conspicua</i>               |                    | Neave, 1904       | ???  | MEF | SL? | ooo |     |     |    |    | ~~~  |                 |                 |
| 915  | <i>N. najo</i>                    |                    | Karsch, 1893      | ENW? | MEF | SL  | BUM | *   | ~   | ~  | ~  | gola |                 |                 |
| 916  | <i>N. metanira</i>                |                    | Holland, 1892     | GHC  | MEF | ~~  | ... |     |     |    |    | ...  |                 |                 |

| No.                                     | Species                | Subspecies         | Author                | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|------------------------|--------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------------|-----------------|
| 918                                     | <i>N. nysiades</i>     |                    | Hewitson, 1868        | WWC | ALF | SL  | BUB |     |     |     |     | GOLA | x               | ~               |
| 921                                     | <i>N. nicomedes</i>    |                    | Hewitson, 1874        | GHC | MEF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 922                                     | <i>N. quintilla</i>    |                    | Mabille, 1890         | WWQ | MEF | SL  | BUB |     |     |     |     | gola |                 |                 |
| 926                                     | <i>N. paula</i>        |                    | Staudinger, 1896      | WWN | WEF | SL  | ~~~ |     |     |     |     | GOLA | ~               | N               |
| 927                                     | <i>N. strigata</i>     | <i>strigata</i>    | Aurivillius, 1894     | WWQ | MEF | SL@ | ~~~ |     |     |     |     | gola |                 |                 |
| 929                                     | <i>N. nicoteles</i>    |                    | Hewitson, 1874        | WWQ | MEF | SL  | BUB |     |     |     |     | GOLA | x               | N               |
| 930                                     | <i>N. nicobule</i>     |                    | Holland, 1892         | WWQ | MEF | SL  | BUM | *   | ~   | ~   | ~   | GOLA | x               | x               |
| 931                                     | <i>N. mixophyes</i>    |                    | Holland, 1892         | WWC | WEF | SL  | ~~~ |     |     |     |     | GOLA | x               | N               |
| 933                                     | <i>N. nebrodes</i>     |                    | Hewitson, 1874        | WWC | MEF | SL  | ooo |     |     |     |     | gola |                 |                 |
| 934                                     | <i>N. trigonophora</i> | <i>melicertula</i> | Strand, 1912          | WWT | MEF | SL  | BUM | *** | *   | ~   | ~   | GOLA | x               | N               |
| 935                                     | <i>N. vindo</i>        |                    | Pierre-Baltus, 1978   | ENG | DRF | ~~  | ... |     |     |     |     | ...  |                 |                 |
| 936                                     | <i>N. agouale</i>      | <i>agouale</i>     | Pierre-Baltus, 1978   | WWQ | ALF | SL  | BUM | *** | **  | **  | ~   | GOLA | x               | x               |
| 937                                     | <i>N. melicerta</i>    |                    | Drury, 1773           | WWQ | ALF | SL  | BUM | **  | **  | *   | ~   | GOLA | x               | N               |
| 938                                     | <i>N. troundi</i>      |                    | Pierre-Baltus, 1978   | WWQ | MEF | SL  | BUM | *** | **  | *   | ~   | GOLA | x               | x               |
| <b>Tribe Adoliadini Doubleday, 1845</b> |                        |                    |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| <b>CATUNA Kirby, 1871</b>               |                        |                    |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 941                                     | <i>C. crithea</i>      |                    | Drury, 1773           | WWQ | ALF | SL  | BUM | *   | ~   | ~   | ~   | GOLA | x               | x               |
| 942                                     | <i>C. niji</i>         |                    | Fox, 1965             | WWC | WEF | SL  | ~~~ |     |     |     |     | gola |                 |                 |
| 943                                     | <i>C. oberthueri</i>   |                    | Karsch, 1894          | WWQ | ALF | SL  | ~~~ |     |     |     |     | GOLA | x               | x               |
| 944                                     | <i>C. angustatum</i>   |                    | Felder & Felder, 1867 | WWQ | MEF | SL  | BUM | *   | ~   | ~   | ~   | GOLA | x               | x               |
| <b>EURYPHURA Staudinger, 1891</b>       |                        |                    |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 946                                     | <i>E. togoensis</i>    |                    | Suffert, 1904         | WWN | MEF | SL  | ~~~ |     |     |     |     | GOLA | x               | 9               |
| 948                                     | <i>E. chalcis</i>      |                    | Felder & Felder, 1860 | WWQ | ALF | SL  | BUM | *   | **  | *   | *   | GOLA | x               | N               |
| <b>EURYPHURANA Hecq, 1992</b>           |                        |                    |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 950                                     | <i>E. nobilis</i>      | <i>nobilis</i>     | Staudinger, 1891      | WWQ | WEF | SL  | ~~~ |     |     |     |     | gola |                 |                 |
| <b>HAMANUMIDA Hübner, 1819</b>          |                        |                    |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 951                                     | <i>H. daedalus</i>     |                    | Fabricius, 1775       | AFR | GUI | SL  | BUM | ~   | *   | *** | *** | GOLA | x               | x               |
| <b>ATERICA Boisduval, 1833</b>          |                        |                    |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 953                                     | <i>A. galene</i>       | <i>galene</i>      | Brown, 1776           | WWT | ALF | SL  | BUM | *** | *** | **  | ~   | GOLA | x               | x               |
| <b>CYNANDRA Schatz, 1887</b>            |                        |                    |                       |     |     |     |     |     |     |     |     |      |                 |                 |
| 954                                     | <i>C. opis</i>         | <i>opis</i>        | Drury, 1773           | WWQ | WEF | SL  | BUM | ~   | *   | ~   | ~   | GOLA | x               | x               |

| No.                              | Species                   | Subspecies              | Author                | DIS | HAB | SL | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|----------------------------------|---------------------------|-------------------------|-----------------------|-----|-----|----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>EURIPHENE Boisduval, 1847</b> |                           |                         |                       |     |     |    |     |    |    |    |    |      |                 |                 |
| 959                              | <i>E. incerta</i>         | <i>incerta</i>          | Aurivillius, 1912     | WWC | WEF | SL | ~~~ |    |    |    |    | GOLA | X               | N               |
| 960                              | <i>E. barombina</i>       |                         | Aurivillius, 1894     | WWQ | ALF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 961                              | <i>E. veronica</i>        |                         | Stoll, 1870           | ENL | MEF | SL | BUM | ** | ** | ~  | ~  | GOLA | X               | X               |
| 964                              | <i>E. grosesmithi</i>     | <i>muehlenbergi</i>     | Hecq, 1995            | GHC | WEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 968                              | <i>E. simplex</i>         |                         | Staudinger, 1891      | ENW | WEF | SL | BUM | ~  | ** | ~  | ~  | GOLA | X               | X               |
| 973                              | <i>E. larseni</i>         | <i>invalid species?</i> | Hecq, 1994            | ??? | ??? | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 974                              | <i>E. amicia</i>          | <i>gola</i>             | Fox, 1965             | WWQ | MEF | SL | ~~~ |    |    |    |    | GOLA | X               | N               |
|                                  | <i>E. amicia</i>          | <i>amicia</i>           | Hewitson, 1871        | "   | "   |    |     |    |    |    |    |      |                 |                 |
| 976                              | <i>E. aridatha</i>        | <i>feronia</i>          | Staudinger, 1891      | WWC | MEF | SL | BUM | *  | ~  | ~  | ~  | GOLA | X               | N               |
|                                  | <i>E. aridatha</i>        | <i>transgressa</i>      | Hecq, 1994            | "   | "   |    |     |    |    |    |    |      |                 |                 |
| 978                              | <i>E. coerulea</i>        |                         | Boisduval, 1847       | WWN | WEF | SL | BUM | *  | ~  | ~  | ~  | GOLA | X               | N               |
| 982                              | <i>E. lomaensis</i>       |                         | Belcastro, 1986       | ENL | WEF | SL | ~~~ |    |    |    |    | GOLA | X               | N               |
| 985                              | <i>E. ernestibaumanni</i> | <i>ernestibaumanni</i>  | Karsch, 1895          | GHC | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 986                              | <i>E. gambiae</i>         | <i>gambiae</i>          | Feisthamel, 1850      | WWQ | ALF |    |     |    |    |    |    |      |                 |                 |
|                                  | <i>E. gambiae</i>         | <i>vera</i>             | Hecq, 2002            | "   | "   | SL | BUM | ~  | *  | ~  | ~  | GOLA | X               | N               |
| 987                              | <i>E. ampedusa</i>        |                         | Hewitson, 1866        | WWN | ALF | SL | BUM | *  | *  | ~  | ~  | GOLA | X               | N               |
| 988                              | <i>E. leonis</i>          |                         | Aurivillius, 1898     | ENL | WEF | SL | ~~~ |    |    |    |    | GOLA | X               | ~               |
| 989                              | <i>E. atossa</i>          | <i>atossa</i>           | Hewitson, 1865        | WWQ | MEF | SL | ~~~ |    |    |    |    | GOLA | X               | N               |
| 990                              | <i>E. doriclea</i>        | <i>doriclea</i>         | Drury, 1782           | WWQ | ALF | SL | BUB |    |    |    |    | GOLA | X               | N               |
| <b>BEBEARIA Hemming, 1960</b>    |                           |                         |                       |     |     |    |     |    |    |    |    |      |                 |                 |
| 994                              | <i>B. lucayensis</i>      |                         | Hecq, 1996            | GHC | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 995                              | <i>B. tentyris</i>        |                         | Hewitson, 1866        | GHQ | ALF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 996                              | <i>B. osyris</i>          |                         | Schultze, 1920        | ENW | WEF | SL | BUM | ** | *  | ~  | ~  | GOLA | X               | X               |
| 997                              | <i>B. dallastai</i>       |                         | Hecq, 1994            | ENG | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 998                              | <i>B. carshena</i>        |                         | Hewitson, 1871        | WWQ | MEF | SL | ooo |    |    |    |    | GOLA | X               | ~               |
| 999                              | <i>B. absolon</i>         | <i>absolon</i>          | Fabricius, 1793       | WWQ | ALF | SL | BUM | *  | ~  | ~  | ~  | GOLA |                 | N               |
| 1001                             | <i>B. zonara</i>          |                         | Butler, 1871          | WWQ | MEF | SL | BUB |    |    |    |    | GOLA | X               | X               |
| 1002                             | <i>B. mandinga</i>        | <i>mandinga</i>         | Felder & Felder, 1860 | WWQ | ALF | SL | ooo |    |    |    |    | GOLA | X               | N               |
| 1003                             | <i>B. oxione</i>          | <i>oxione</i>           | Hewitson, 1866        | WWQ | MEF | SL | BUM | *  | ~  | ~  | ~  | GOLA | X               | N               |
| 1004                             | <i>B. abesa</i>           | <i>abesa</i>            | Hewitson, 1869        | WWQ | MEF | SL | ~~~ |    |    |    |    | GOLA | X               | N               |
| 1006                             | <i>B. barce</i>           | <i>barce</i>            | Doubleday, 1847       | WWQ | WEF | SL | ~~~ |    |    |    |    | GOLA | X               | X               |

| No.                                      | Species                    | Subspecies         | Author                 | DIS | HAB | SL | BU  | RF | OF  | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--|----------------------------|--------------------|------------------------|-----|-----|----|-----|----|-----|----|----|------|-----------------|-----------------|
| 1008                                     | <i>B. mardania</i>         |                    | Fabricius, 1793        | WWC | ALF | SL | bum |    |     |    |    | GOLA | x               | N               |
| 1011                                     | <i>B. cocalia</i>          | <i>cocalia</i>     | Fabricius, 1793        | WWQ | ALF | SL | BUM | ~  | **  | *  | ~  | GOLA | x               | x               |
| 1012                                     | <i>B. paludicola</i>       | <i>blandi</i>      | Holmes, 2001           | WWC | WEF | SL | ooo |    |     |    |    | GOLA | x               | ~               |
| 1013                                     | <i>B. senegalensis</i>     |                    | Herrich-Schäffer, 1858 | ENL | DRF | SL | ~~~ |    |     |    |    | ~~~  |                 |                 |
| 1014                                     | <i>B. sophus</i>           | <i>phreone</i>     | Feisthamel, 1850       | WWQ | ALF |    |     |    |     |    |    |      |                 |                 |
|  | <i>B. sophus</i>           | <i>sophus</i>      | Fabricius, 1793        | "   | "   | SL | BUM | ** | *** | *  | ~  | GOLA | x               | x               |
| 1017                                     | <i>B. arcadius</i>         |                    | Fabricius, 1793        | ENW | WEF | SL | BUM | ~  | *   | ~  | ~  | GOLA | x               | N               |
| 1021                                     | <i>B. laetitia</i>         | <i>laetitia</i>    | Plötz, 1880            | WWQ | WEF | SL | BUB |    |     |    |    | GOLA | x               | x               |
| 1027                                     | <i>B. phantasina</i>       | <i>ultima</i>      | Hecq, 1990             | WWN | ALF |    |     |    |     |    |    |      |                 |                 |
|  | <i>B. phantasina</i>       | <i>phantasina</i>  | Staudinger, 1891       | "   | "   | SL | BUB |    |     |    |    | GOLA | x               | ~               |
| 1029                                     | <i>B. demetra</i>          | <i>demetra</i>     | Godart, 1824           | WWC | MEF | SL | ooo |    |     |    |    | GOLA | x               | N               |
|  | <i>B. demetra</i>          | <i>obsolescens</i> | Talbot, 1928           | "   | "   |    |     |    |     |    |    |      |                 |                 |
| 1030                                     | <i>B. warrengashi</i>      |                    | Hecq, 2000             | ENL | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 1031                                     | <i>B. inepta</i>           |                    | Hecq, 2001             | ENL | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 1033                                     | <i>B. maledicta</i>        |                    | Strand, 1912           | WWC | WEF | SL | BUB |    |     |    |    | GOLA | ~               | N               |
| 1035                                     | <i>B. ashantina</i>        |                    | Dudgeon, 1913          | ENG | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 1037                                     | <i>B. cutteri</i>          | <i>harleyi</i>     | Fox, 1968              | WWQ | WEF | SL | ~~~ |    |     |    |    | GOLA | x               | N               |
|  | <i>B. cutteri</i>          | <i>cutteri</i>     | Hewitson, 1865         | "   | "   | ~~ |     |    |     |    |    |      |                 |                 |
| <b>EUPHAEDRA Hübner, 1819</b>            |                            |                    |                        |     |     |    |     |    |     |    |    |      |                 |                 |
| <b>Subgenus Proteuphaedra Hecq, 1976</b> |                            |                    |                        |     |     |    |     |    |     |    |    |      |                 |                 |
| 1042                                     | <i>E. aubergeri</i>        |                    | Hecq, 1977             | ENL | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| <b>Subgenus Medoniana Hecq, 1976</b>     |                            |                    |                        |     |     |    |     |    |     |    |    |      |                 |                 |
| 1046                                     | <i>E. medon</i>            | <i>pholus</i>      | van der Hoeven, 1840   | WWQ | ALF |    |     |    |     |    |    |      |                 |                 |
|  | <i>E. medon</i>            | <i>medon</i>       | Linné, 1763            | "   | "   | SL | BUM | ** | *** | ** | ~  | gola |                 |                 |
| <b>Subgenus Gausapia Hecq, 1976</b>      |                            |                    |                        |     |     |    |     |    |     |    |    |      |                 |                 |
| 1047                                     | <i>E. gausape</i>          |                    | Butler, 1866           | ENW | MEF | SL | BUM | ~  | **  | ~  | ~  | GOLA | x               | N               |
| 1047a                                    | <i>E. mariaechristinae</i> |                    | Hecq & Joly, 2003      | ENG | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |
| 1048                                     | <i>E. judith</i>           | <i>judith</i>      | Weymer, 1892           | ENL | MEF | SL | BUM | ~  | **  | ~  | ~  | GOLA | x               | N               |
| 1049                                     | <i>E. melpomene</i>        |                    | Hecq, 1981             | ENL | WEF | SL | ~~~ |    |     |    |    | GOLA | x               | N               |
| 1051                                     | <i>E. hastiri</i>          |                    | Hecq, 1981             | ENL | DRF | SL | ooo |    |     |    |    | ooo  |                 |                 |
| 1052                                     | <i>E. plantroui</i>        |                    | Hecq, 1981             | ENL | WEF | ~~ | ... |    |     |    |    | ...  |                 |                 |

| No.   | Species              | Subspecies          | Author                     | DIS | HAB | SL  | BU  | RF  | OF  | FB  | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|----------------------|---------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|----|------|-----------------|-----------------|
| <b>Subgenus <i>Xypetana</i> Hecq, 1976</b>    |                      |                     |                            |     |     |     |     |     |     |     |    |      |                 |                 |
| 1055  | <i>E. xypete</i>     |                     | Hewitson, 1865             | WWC | MEF | SL  | BUM | **  | *   | ~   | ~  | GOLA | x               | x               |
| 1057  | <i>E. hebes</i>      |                     | Hecq, 1980                 | WWN | WEF | SL@ | ~~~ |     |     |     |    | GOLA | x               | x               |
| 1059  | <i>E. diffusa</i>    | <i>albocoerulea</i> | Hecq, 1976                 | WWQ | DRF | SL  | BUB |     |     |     |    | ooo  |                 |                 |
| 1060  | <i>E. crossei</i>    | <i>akani</i>        | Hecq & Joly, 2004          | GHN | DRF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 1061  | <i>E. crockeri</i>   | <i>crockeri</i>     | Butler, 1869               | ENW | WEF | SL  | ~~~ |     |     |     |    | GOLA | x               | x               |
|   | <i>E. crockeri</i>   | <i>umbratilis</i>   | Hecq, 1987                 | "   | "   |     |     |     |     |     |    |      |                 |                 |
| <b>Subgenus <i>Radia</i> Hecq, 1976</b>       |                      |                     |                            |     |     |     |     |     |     |     |    |      |                 |                 |
| 1062  | <i>E. eusemoides</i> |                     | Grose-Smith & Kirby, 1889  | ENW | WEF | SL  | ~~~ |     |     |     |    | gola |                 |                 |
| <b>Subgenus <i>Euphaedra</i> Hübner, 1819</b> |                      |                     |                            |     |     |     |     |     |     |     |    |      |                 |                 |
| 1064  | <i>E. cyparissa</i>  | <i>cyparissa</i>    | Cramer, 1775               | WWC | DRF | SL  | BUM | *** | *** | *** | ~  | GOLA | ~               | N               |
|   | <i>E. cyparissa</i>  | <i>tai</i>          | Hecq, 1986                 | "   | "   |     |     |     |     |     |    |      |                 |                 |
| 1065  | <i>E. sarcoptera</i> | <i>sarcoptera</i>   | Butler, 1871               | WWQ | ALF | SL  | ~~~ |     |     |     |    | GOLA | ~               | x               |
|   | <i>E. sarcoptera</i> | <i>styx</i>         | Larsen & Warren-Gash, 2004 | "   | "   |     |     |     |     |     |    |      |                 |                 |
| <b>Subgenus <i>Euphaedrana</i> Hecq, 1976</b> |                      |                     |                            |     |     |     |     |     |     |     |    |      |                 |                 |
| 1066  | <i>E. themis</i>     | <i>composita</i>    | Hecq, 1982                 | WWN | DRF | SL  | BUM | **  | **  | ~   | ~  | GOLA | x               | ~               |
|   | <i>E. themis</i>     | <i>themis</i>       | Hübner, 1807               | "   | "   |     |     |     |     |     |    |      |                 |                 |
| 1067  | <i>E. laboureana</i> | <i>laboureana</i>   | de Toulgoët, 1957          | ENW | MEF | SL  | BUB |     |     |     |    | gola |                 |                 |
|   | <i>E. laboureana</i> | <i>eburnensis</i>   | Hecq, 1979                 | "   | "   |     |     |     |     |     |    |      |                 |                 |
| 1071  | <i>E. minuta</i>     |                     | Hecq, 1982                 | ENW | WEF | SL  | BUB |     |     |     |    | GOLA | x               | x               |
| 1072  | <i>E. modesta</i>    |                     | Hecq, 1982                 | ENW | WEF | SL  | BU? |     |     |     |    | gola |                 |                 |
| 1073  | <i>E. laguerrei</i>  |                     | Hecq, 1979                 | ENW | DRF | SL  | ~~~ |     |     |     |    | ~~~  |                 |                 |
| 1074  | <i>E. dubreka</i>    |                     | Collins & Larsen, 2005     | ENL | MEF | SL  | ~~~ |     |     |     |    | ~~~  |                 |                 |
| 1075  | <i>E. janetta</i>    | <i>janetta</i>      | Butler, 1871               | WWC | ALF | SL  | BUM | ~   | **  | ~   | ~  | GOLA | x               | x               |
| 1076  | <i>E. splendens</i>  | <i>ghanaensis</i>   | Hecq & Joly, 2004          | GHC | WEF | ~~  | ... |     |     |     |    | ...  |                 |                 |
| 1078  | <i>E. vetusta</i>    |                     | Butler, 1871               | ENW | WEF | SL  | ooo |     |     |     |    | ooo  |                 |                 |
| 1079  | <i>E. aberrans</i>   |                     | Staudinger, 1891           | ENW | MEF | SL  | BUM | ~   | *   | ~   | ~  | ooo  |                 |                 |
| 1083  | <i>E. ceres</i>      | <i>ceres</i>        | Fabricius, 1775            | WWC | ALF | SL  | BUM | ~   | **  | *   | ~  | gola |                 |                 |
|   | <i>E. ceres</i>      | <i>lutescens</i>    | Hecq, 1979                 | "   | "   |     |     |     |     |     |    |      |                 |                 |
| 1084  | <i>E. afzelii</i>    |                     | Felder & Felder, 1867      | ENL | MEF | SL  | BUM | ~   | *   | ~   | ~  | ooo  |                 |                 |
| 1085  | <i>E. phaethusa</i>  | <i>aurea</i>        | Hecq, 1983                 | ENW | ALF | SL@ | BUM | *** | *** | *   | ~  | GOLA | x               | x               |
|   | <i>E. phaethusa</i>  | <i>phaethusa</i>    | Butler, 1866               | "   | "   |     |     |     |     |     |    |      |                 |                 |



| No.                                 | Species             | Subspecies          | Author                 | DIS | HAB | SL | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-------------------------------------|---------------------|---------------------|------------------------|-----|-----|----|-----|----|----|----|----|------|-----------------|-----------------|
| 1086                                | <i>E. inanum</i>    |                     | Butler, 1873           | ENW | MEF | SL | BUM | *  | ** | ** | ~  | gola |                 |                 |
| 1087                                | <i>E. villiersi</i> |                     | Condamin, 1964         | ENL | DRF | SL | ooo |    |    |    |    | ~~~  |                 |                 |
| 1088                                | <i>E. delera</i>    |                     | Hecq, 1989             | ENG | DRF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1096                                | <i>E. ignota</i>    |                     | Hecq, 1996             | ENG | WEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1097                                | <i>E. tenebrosa</i> |                     | Hecq, 1983             | ENG | WEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1103                                | <i>E. velutina</i>  |                     | Hecq, 1997             | GHC | WEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1106                                | <i>E. francina</i>  | <i>francina</i>     | Godart, 1824           | ENW | WEF | SL | BUB |    |    |    |    | GOLA | x               | ~               |
|                                     | <i>E. francina</i>  | <i>exuberans</i>    | Collins & Larsen, 2005 | "   | "   |    |     |    |    |    |    |      |                 |                 |
| 1108                                | <i>E. eleus</i>     | <i>eleus</i>        | Drury, 1782            | WWQ | WEF | SL | BUB |    |    |    |    | GOLA | x               | ~               |
| 1112                                | <i>E. zampa</i>     |                     | Westwood, 1850         | ENW | WEF | SL | ~~~ |    |    |    |    | GOLA | x               | ~               |
| 1115                                | <i>E. edwardsii</i> |                     | van der Hoeven, 1845   | WWQ | ALF | SL | BUM | *  | *  | ~  | ~  | GOLA | ~               | N               |
| 1116                                | <i>E. ruspina</i>   |                     | Hewitson, 1865         | VOQ | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1117                                | <i>E. perseis</i>   |                     | Drury, 1773            | ENW | WEF | SL | ooo |    |    |    |    | GOLA | x               | N               |
| 1118                                | <i>E. harpalyce</i> | <i>harpalyce</i>    | Cramer, 1777           | WWQ | ALF | SL | BUM | ** | ** | *  | ~  | GOLA | x               | x               |
| 1119                                | <i>E. eupalus</i>   |                     | Fabricius, 1781        | ENW | WEF | SL | BUM | ~  | *  | ~  | ~  | GOLA | x               | x               |
| <b>EUPTEA Staudinger, 1891</b>      |                     |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 1121                                | <i>E. crowleyi</i>  | <i>crowleyi</i>     | Kirby, 1889            | WWQ | ALF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1122                                | <i>E. elabontas</i> | <i>elabontas</i>    | Hewitson, 1871         | GHQ | ALF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1123                                | <i>E. dorothea</i>  | <i>dorothea</i>     | Bethune--Baker, 1904   | ENW | ALF | SL | BUB |    |    |    |    | gola |                 |                 |
|                                     | <i>E. dorothea</i>  | <i>warrengashi</i>  | Libert, 2002           | "   | "   |    |     |    |    |    |    |      |                 |                 |
| 1124                                | <i>E. zowa</i>      |                     | Fox, 1965              | WWN | ALF | SL | BUM | ** | ~  | ~  | ~  | gola |                 |                 |
| 1125                                | <i>E. pluto</i>     | <i>occidentalis</i> | Chovet, 1998           | WWQ | WEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1132                                | <i>E. plantrowi</i> |                     | Chovet & Collins, 1998 | WWC | WEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| <b>PSEUDATHYMA Staudinger, 1891</b> |                     |                     |                        |     |     |    |     |    |    |    |    |      |                 |                 |
| 1133                                | <i>P. falcata</i>   |                     | Jackson, 1969          | WWN | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |
| 1134                                | <i>P. sibyllina</i> |                     | Staudinger, 1890       | WWQ | MEF | SL | bum |    |    |    |    | gola |                 |                 |
| 1137                                | <i>P. neptidina</i> | <i>neptidina</i>    | Karsch, 1894           | WWQ | MEF | SL | ooo |    |    |    |    | gola |                 |                 |
| 1138                                | <i>P. martini</i>   |                     | Collins, 2002          | GHN | MEF | ~~ | ... |    |    |    |    | ...  |                 |                 |

| No.  | Species               | Subspecies        | Author            | DIS  | HAB | SL | BU  | RF  | OF  | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|--|-----------------------|-------------------|-------------------|------|-----|----|-----|-----|-----|-----|-----|------|-----------------|-----------------|
| <i>Subfamily Heliconiinae Swainson, 1822</i> |                       |                   |                   |      |     |    |     |     |     |     |     |      |                 |                 |
| <i>Tribe Acraeini Boisduval, 1833</i>        |                       |                   |                   |      |     |    |     |     |     |     |     |      |                 |                 |
| <b>ACRAEA Fabricius, 1807</b>                |                       |                   |                   |      |     |    |     |     |     |     |     |      |                 |                 |
| <b>Subgenus Actinote Hübner, 1816</b>        |                       |                   |                   |      |     |    |     |     |     |     |     |      |                 |                 |
| 1139   | <i>A. perenna</i>     | <i>perenna</i>    | Doubleday, 1847   | WWT  | MEF | SL | BUM | **  | **  | **  | ~   | GOLA | ~               | X               |
| 1144   | <i>A. circeis</i>     |                   | Drury, 1782       | WWC  | ALF | SL | BUB |     |     |     |     | GOLA | ~               | X               |
| 1147   | <i>A. translucida</i> |                   | Eltringham, 1912  | GHN  | WEF | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1148   | <i>A. peneleos</i>    | <i>peneleos</i>   | Ward, 1871        | WWT  | ALF | SL | BUM | ~   | *   | ~   | ~   | gola |                 |                 |
| 1149   | <i>A. parrhasia</i>   | <i>parrhasia</i>  | Fabricius, 1793   | WWT  | MEF | SL | BUB |     |     |     |     | gola |                 |                 |
| 1150   | <i>A. orina</i>       |                   | Hewitson, 1874    | WWC  | WEF | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1152   | <i>A. pharsalus</i>   | <i>pharsalus</i>  | Ward, 1871        | WWT  | ALF | SL | BUM | ~   | *   | *   | ~   | gola |                 |                 |
| 1153   | <i>A. encedon</i>     | <i>encedon</i>    | Linné, 1758       | AFR  | UBQ | SL | bum |     |     |     |     | ooo  |                 |                 |
| 1154   | <i>A. encedana</i>    |                   | Pierre, 1976      | WWQ  | SPE | SL | BUM | ~   | ~   | *   | ~   | gola |                 |                 |
| 1155   | <i>A. alciope</i>     |                   | Hewitson, 1852    | WWQ  | ALF | SL | bum |     |     |     |     | GOLA | ~               | X               |
| 1156   | <i>A. aurivillii</i>  | <i>aurivillii</i> | Staudinger, 1896  | WWQ  | MEF | SL | ooo |     |     |     |     | gola |                 |                 |
| 1157   | <i>A. jodutta</i>     | <i>jodutta</i>    | Fabricius, 1793   | WWQ  | ALF | SL | BUB |     |     |     |     | GOLA | ~               | N               |
| 1158   | <i>A. lycoa</i>       |                   | Godart, 1819      | WWQ  | ALF | SL | BUB |     |     |     |     | gola |                 |                 |
| 1159   | <i>A. serena</i>      |                   | Fabricius, 1775   | AFR  | UBQ | SL | BUM | ~   | *   | *** | *** | GOLA | X               | N               |
| 1160   | <i>A. acerata</i>     |                   | Hewitson, 1874    | WWQ  | ALF | SL | BUM | ~   | *   | ~   | ~   | gola |                 |                 |
| 1161   | <i>A. pseudopaea</i>  |                   | Dudgeon, 1909     | GHN  | WEF | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1165   | <i>A. bonasia</i>     | <i>bonasia</i>    | Fabricius, 1775   | WWQ  | ALF | SL | BUM | *** | *** | *** | ~   | GOLA | ~               | X               |
| 1167   | <i>A. orestia</i>     | <i>orestia</i>    | Hewitson, 1874    | GHQ  | MEF | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1168   | <i>A. polis</i>       |                   | Pierre, 1999      | WWN  | MEF | SL | BUB |     |     |     |     | gola |                 |                 |
| 1169   | <i>A. vesperalis</i>  |                   | Grose-Smith, 1890 | WWQ  | WEF | SL | BUM | ~   | ~   | *   | ~   | gola |                 |                 |
| <b>Subgenus Acraea Fabricius, 1807</b>       |                       |                   |                   |      |     |    |     |     |     |     |     |      |                 |                 |
| 1172   | <i>A. kraka</i>       | <i>kibi</i>       | Usher, 1986       | GHN  | MNT | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1173   | <i>A. rogersi</i>     | <i>rogersi</i>    |                   | WWQ  | MEF | SL | BUB |     |     |     |     | gola |                 |                 |
| 1174   | <i>A. abdera</i>      | <i>eginopsis</i>  | Aurivillius, 1898 | WWQ  | MEF | SL | ~~~ |     |     |     |     | GOLA | X               | N               |
| 1176   | <i>A. egina</i>       | <i>egina</i>      | Cramer, 1775      | WWT? | ALF | SL | BUM | **  | **  | *** | **  | GOLA | X               | N               |
| 1178   | <i>A. pseudEGINA</i>  |                   | Westwood, 1852    | WWQ  | UBQ | SL | BUM | *   | *   | *** | *** | GOLA | ~               | X               |
| 1179   | <i>A. caecilia</i>    | <i>caecilia</i>   | Fabricius, 1781   | WWQ  | SUD | SL | BUB |     |     |     |     | ~~~  |                 |                 |
| 1180   | <i>A. zetes</i>       | <i>zetes</i>      | Linné, 1758       | WWT  | ALF | SL | BUM | ~   | *   | *   | *   | GOLA | X               | ~               |

| No.   | Species                | Subspecies        | Author                    | DIS | HAB | SL | BU  | RF  | OF  | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|------------------------|-------------------|---------------------------|-----|-----|----|-----|-----|-----|-----|-----|------|-----------------|-----------------|
| 1181  | <i>A. endoscota</i>    |                   | le Doux, 1928             | WWQ | ALF | SL | BUM | *   | **  | *   | ~   | GOLA | ~               | N               |
| 1182  | <i>A. leucographa</i>  |                   | Ribbe, 1889               | GHQ | MEF | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1184  | <i>A. quirina</i>      | <i>quirina</i>    | Fabricius, 1781           | WWT | ALF | SL | BUM | *** | *** | *** | *** | GOLA | x               | x               |
| 1185  | <i>A. neobule</i>      | <i>neobule</i>    | Doubleday, 1847           | AFR | UBQ | SL | BUB |     |     |     |     | gola |                 |                 |
| 1186  | <i>A. eugenia</i>      |                   | Karsch, 1893              | VOQ | MEF | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1187  | <i>A. camaena</i>      |                   | Drury, 1773               | WWC | DRF | SL | BUB |     |     |     |     | ooo  |                 |                 |
| 1188  | <i>A. vestalis</i>     | <i>vestalis</i>   | Felder & Felder, 1865     | WWQ | ALF | SL | BUM | **  | ~   | ~   | ~   | GOLA | x               | x               |
| 1189  | <i>A. macaria</i>      |                   | Fabricius, 1793           | ENW | MEF | SL | BUM | *   | **  | ~   | ~   | GOLA | x               | ~               |
| 1190  | <i>A. umbra</i>        | <i>carpenteri</i> | le Doux, 1937             | "   | "   |    |     |     |     |     |     |      |                 |                 |
|   | <i>A. umbra</i>        | <i>umbra</i>      | Drury, 1782               | WWC | ALF | SL | BUM | ~   | *   | ~   | ~   | gola |                 |                 |
| 1191  | <i>A. alcinoe</i>      | <i>alcinoe</i>    | Felder & Felder, 1865     | WWQ | MEF | SL | BUM | *   | *   | ~   | ~   | gola |                 |                 |
| 1192  | <i>A. consanguinea</i> | <i>sartina</i>    | Jordan, 1910              | WWQ | WEF | SL | ~~~ |     |     |     |     | GOLA | x               | ~               |
| 1196  | <i>A. epaea</i>        | <i>epaea</i>      | Cramer, 1779              | WWQ | ALF | SL | BUM | ~   | ~   | ~   | *   | GOLA | x               | N               |
| <b>Tribe Vagrantini Pinratana &amp; Eliot, 1996</b> |                        |                   |                           |     |     |    |     |     |     |     |     |      |                 |                 |
| <b>LACHNOPTERA Doubleday, 1847</b>                  |                        |                   |                           |     |     |    |     |     |     |     |     |      |                 |                 |
| 1199  | <i>L. anticlia</i>     |                   | Hübner, 1819              | WWQ | MEF | SL | BUM | *   | ~   | ~   | ~   | GOLA | x               | N               |
| <b>PHALANTA Horsfield, 1829</b>                     |                        |                   |                           |     |     |    |     |     |     |     |     |      |                 |                 |
| 1200  | <i>P. phalantha</i>    | <i>aethiopica</i> | Rothschild & Jordan, 1903 | AFR | UBQ | SL | BUM | ~   | ~   | ~   | *   | gola |                 |                 |
| 1201  | <i>P. eurytis</i>      | <i>eurytis</i>    | Doubleday, 1847           | AFR | ALF | SL | BUM | *** | *** | *** | **  | GOLA | x               | x               |
| <b>Superfamily HESPERIOIDEA Latreille, 1809</b>     |                        |                   |                           |     |     |    |     |     |     |     |     |      |                 |                 |
| <b>Family HESPERIIDAE Latreille, 1809</b>           |                        |                   |                           |     |     |    |     |     |     |     |     |      |                 |                 |
| <b>Subfamily Coeliadinae Evans, 1937</b>            |                        |                   |                           |     |     |    |     |     |     |     |     |      |                 |                 |
| <b>COELIADES Hübner, 1818</b>                       |                        |                   |                           |     |     |    |     |     |     |     |     |      |                 |                 |
| 1203  | <i>C. chalybe</i>      | <i>chalybe</i>    | Westwood, 1852            | WWT | ALF | SL | BUM | **  | *   | *   | ~   | GOLA | x               | N               |
| 1204  | <i>C. bixana</i>       |                   | Evans, 1940               | WWQ | MEF | ~~ | ... |     |     |     |     | ...  |                 |                 |
| 1205  | <i>C. aeschylus</i>    |                   | Plötz, 1884               | ENL | GUI | SL | ~~~ |     |     |     |     | ~~~  |                 |                 |
| 1206  | <i>C. libeon</i>       |                   | Druce, 1875               | AFR | ALF | SL | bum |     |     |     |     | ooo  |                 |                 |
| 1207  | <i>C. forestan</i>     | <i>forestan</i>   | Stoll, 1782               | AFR | UBQ | SL | BUM | *   | **  | *** | **  | GOLA | x               | N               |
| 1208  | <i>C. pisistratus</i>  |                   | Fabricius, 1793           | AFR | ALF | SL | BUM | ~   | ~   | *   | *   | GOLA | ~               | x               |
| 1209  | <i>C. hanno</i>        |                   | Plötz, 1879               | WWQ | MEF | SL | BUM | *   | *   | ~   | ~   | GOLA | ~               | x               |

| No.   | Species               | Subspecies           | Author                 | DIS | HAB | SL  | BU  | RF | OF  | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|-----------------------|----------------------|------------------------|-----|-----|-----|-----|----|-----|----|----|------|-----------------|-----------------|
| <b>PYRRHIADES</b> <i>Lindsey &amp; Miller, 1965</i> |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| 1210  | <i>P. lucagus</i>     |                      | Cramer, 1777           | ENW | DRF | ~~  | ... |    |     |    |    | ...  |                 |                 |
| <b>PYRRHOCHALCIA</b> <i>Mabille, 1904</i>           |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| 1211  | <i>P. iphis</i>       |                      | Drury, 1773            | WWC | ALF | SL  | ~~~ |    |     |    |    | GOLA | x               | N               |
| <b>Subfamily Pyrginae</b> <i>Burmeister, 1878</i>   |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| <b>LOXOLEXIS</b> <i>Karsch, 1895</i>                |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| 1212  | <i>L. holocausta</i>  |                      | Mabille, 1891          | WWQ | WEF | SL  | ~~~ |    |     |    |    | gola |                 |                 |
| 1213  | <i>L. dimidia</i>     |                      | Holland, 1896          | GHC | WEF | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 1214  | <i>L. hollandi</i>    |                      | Druce, 1909            | WWC | WEF | SL@ | ~~~ |    |     |    |    | gola |                 |                 |
| <b>KATREUS</b> <i>Watson, 1893</i>                  |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| 1215  | <i>K. johnstonii</i>  |                      | Butler, 1888           | WWC | WEF | SL  | ~~~ |    |     |    |    | gola |                 |                 |
| <b>CELAENORRHINUS</b> <i>Hübner, 1819</i>           |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| 1216  | <i>C. rutilans</i>    |                      | Mabille, 1877          | WWC | WEF | SL  | ~~~ |    |     |    |    | gola |                 |                 |
| 1217  | <i>C. sagamase</i>    |                      | Collins & Larsen, 2005 | ENG | WEF | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 1219  | <i>C. leona</i>       |                      | Berger, 1975           | ENW | WEF | SL  | BUB |    |     |    |    | gola |                 |                 |
| 1222  | <i>C. nimba</i>       |                      | Collins & Larsen, 2000 | ENL | WEF | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 1223  | <i>C. ankasa</i>      |                      | Larsen & Miller, 2005  | ENW | WEF | SL@ | ~~~ |    |     |    |    | gola |                 |                 |
| 1224  | <i>C. galenus</i>     | <i>galenus</i>       | Fabricius, 1793        | AFR | ALF | SL  | BUM | ** | *** | ** | ~  | gola |                 |                 |
| 1225  | <i>C. cf galenus</i>  |                      |                        | ??? | WEF | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 1226  | <i>C. meditrina</i>   |                      | Hewitson, 1877         | WWQ | WEF | SL  | BUB |    |     |    |    | gola |                 |                 |
| 1227  | <i>C. ovalis</i>      |                      | Evans, 1937            | WWQ | WEF | SL  | BUB |    |     |    |    | gola |                 |                 |
| 1230  | <i>C. proxima</i>     | <i>maesseni</i>      | Berger, 1976           | WWQ | ALF | SL  | BUB |    |     |    |    | gola |                 |                 |
| 1231  | <i>C. plagiatus</i>   |                      | Berger, 1976           | WWQ | MEF | SL  | BUB |    |     |    |    | gola |                 |                 |
| <b>TAGIADES</b> <i>Hübner, 1819</i>                 |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| 1232  | <i>T. flesus</i>      |                      | Fabricius, 1781        | AFR | ALF | SL  | BUM | *  | *   | ** | ~  | GOLA | x               | x               |
| <b>EAGRIS</b> <i>Guenée, 1863</i>                   |                       |                      |                        |     |     |     |     |    |     |    |    |      |                 |                 |
| 1233  | <i>E. denuba</i>      | <i>denuba</i>        | Plötz, 1879            | WWN | ALF | SL  | BUM | ** | **  | ** | ~  | GOLA | x               | N               |
| 1234  | <i>E. decastigma</i>  |                      | Mabille, 1891          | WWQ | WEF | SL  | ~~~ |    |     |    |    | gola |                 |                 |
| 1235  | <i>E. tigris</i>      | <i>liberti</i>       | Larsen & Collins, 2005 | WWQ | WEF | ~~  | ... |    |     |    |    | ...  |                 |                 |
| 1236  | <i>E. subalbida</i>   | <i>subalbida</i>     | Holland, 1893          | WWQ | WEF | SL@ | ~~~ |    |     |    |    | GOLA | x               | ~               |
| 1237  | <i>E. hereus</i>      | <i>quaterna</i>      | Mabille, 1890          | WWC | MEF | SL  | ~~~ |    |     |    |    | GOLA | x               | ~               |
| 1238  | <i>E. tetrastigma</i> | <i>subolivescens</i> | Holland, 1892          | WWQ | MEF | SL  | ~~~ |    |     |    |    | gola |                 |                 |

| No.                                 | Species                   | Subspecies         | Author                 | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-------------------------------------|---------------------------|--------------------|------------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>CALLEAGRIS Aurivillius, 1925</b> |                           |                    |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1239                                | <i>C. lacteus</i>         | <i>dannatti</i>    | Mabille, 1877          | WWQ | WEF | SL  | BUB |    |    |    |    | GOLA | x               | N               |
| 1240                                | <i>C. landbecki</i>       |                    | Druce, 1910            | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| <b>PROCAMPTA Holland, 1892</b>      |                           |                    |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1241                                | <i>P. rara</i>            |                    | Holland, 1892          | WWQ | MEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| <b>ERETIS Mabille, 1891</b>         |                           |                    |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1242                                | <i>E. lugens</i>          |                    | Rogenhofer, 1891       | AFR | GUI | SL  | BUM | *  | ~  | ~  | ~  | ~~~  |                 |                 |
| 1243                                | <i>E. plistonicus</i>     |                    | Plötz, 1879            | GHN | ALF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1244                                | <i>E. melania</i>         |                    | Mabille, 1891          | AFR | DRF | SL  | BUM | ** | *  | ** | ~  | GOLA | x               | ~               |
| <b>SARANGESA Moore, 1881</b>        |                           |                    |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1245                                | <i>S. laelius</i>         |                    | Mabille, 1877          | AFR | GUI | SL@ | bum |    |    |    |    | ~~~  |                 |                 |
| 1246                                | <i>S. phidyle</i>         |                    | Walker, 1870           | AFR | SUD | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1247                                | <i>S. tertullianus</i>    |                    | Fabricius, 1793        | WWQ | MEF | SL  | BUM | ** | ~  | *  | ~  | GOLA | x               | N               |
| 1248                                | <i>S. majorella</i>       |                    | Mabille, 1891          | WWC | MEF | SL  | BUM | *  | ~  | ~  | ~  | gola |                 |                 |
| 1249                                | <i>S. tricerata</i>       | <i>tricerata</i>   | Mabille, 1891          | WWQ | DRF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1250                                | <i>S. thecla</i>          | <i>thecla</i>      | Plötz, 1879            | WWC | ALF | SL  | BUM | ~  | *  | ~  | ~  | gola |                 |                 |
| 1251                                | <i>S. bouvieri</i>        |                    | Mabille, 1877          | WWQ | DRF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1252                                | <i>S. brigida</i>         | <i>brigida</i>     | Plötz, 1879            | WWQ | MEF | SL  | BUM | *  | *  | ~  | ~  | gola |                 |                 |
| <b>CAPRONA Wallengren, 1857</b>     |                           |                    |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1253                                | <i>C. adelica</i>         |                    | Karsch, 1892           | AFR | GUI | s1  | ... |    |    |    |    | ...  |                 |                 |
| 1254                                | <i>C. pillaana</i>        |                    | Wallengren, 1857       | AFR | SUD | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>NETROBALANE Mabille, 1903</b>    |                           |                    |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1255                                | <i>N. canopus</i>         |                    | Trimen, 1864           | AFR | GUI | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>ABANTIS Hopffer, 1855</b>        |                           |                    |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1256                                | <i>A. bismarcki</i>       |                    | Karsch, 1892           | WWQ | GUI | s1  | ... |    |    |    |    | ...  |                 |                 |
| 1257                                | <i>A. leucogaster</i>     | <i>leucogaster</i> | Mabille, 1890          | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1258                                | <i>A. nigeriana</i>       |                    | Butler, 1901           | WWC | GUI | s1  | ... |    |    |    |    | ...  |                 |                 |
| 1259                                | <i>A. pseudonigeriana</i> |                    | Usher, 1984            | WWN | SUD | SL  | BUM | ~  | ~  | ~  | *  | ooo  |                 |                 |
| 1261                                | <i>A. lucretia</i>        | <i>lucretia</i>    | Druce, 1909            | WWQ | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1262                                | <i>A. elegantula</i>      | <i>elegantula</i>  | Mabille, 1890          | WWQ | DRF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1263                                | <i>A. ja</i>              |                    | Druce, 1909            | GHC | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1263a                               | <i>A. tanobia</i>         |                    | Collins & Larsen, 2005 | ENG | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |

| No.   | Species               | Subspecies          | Author            | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|-----------------------|---------------------|-------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>SPIALIA Swinhoe, 1912</b>                      |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1265  | <i>S. spio</i>        |                     | Linné, 1767       | AFR | SUD | SL  | BUM | ~  | ~  | ~  | *  | gola |                 |                 |
| 1266  | <i>S. doris</i>       | <i>daphne</i>       | Evans, 1949       | ??? | SPE | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1267  | <i>S. diomus</i>      | <i>diomus</i>       | Hopffer, 1855     | AFR | SUD | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1268  | <i>S. dromus</i>      |                     | Plötz, 1884       | AFR | GUI | SL  | BUM | ~  | ~  | *  | ~  | ~~~  |                 |                 |
| 1269  | <i>S. ploetzi</i>     | <i>occidentalis</i> | de Jong, 1977     | WWQ | ALF | SL  | BUM | ** | ~  | ~  | ~  | gola |                 |                 |
| <b>GOMALIA Moore, 1879</b>                        |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1270  | <i>G. elma</i>        | <i>elma</i>         | Trimen, 1862      | AFR | GUI | SL  | BUB |    |    |    |    | gola |                 |                 |
| <b>Subfamily Heteropterinae Aurivillius, 1925</b> |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>METISELLA Hemming, 1934</b>                    |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1274  | <i>M. tsadicus</i>    |                     | Aurivillius, 1905 | WWQ | SUD | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>Subfamily Hesperinae Latreille, 1809</b>       |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| <b>ASTICTOPTERUS Felder &amp; Felder, 1860</b>    |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1276  | <i>A. anomoeus</i>    |                     | Plötz, 1879       | ENW | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1277  | <i>A. abjecta</i>     |                     | Snellen, 1872     | WWQ | GUI | SL  | BUM | ~  | ~  | *  | ~  | ~~~  |                 |                 |
| <b>PROSOPALPUS Holland, 1896</b>                  |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1278  | <i>P. debilis</i>     |                     | Plötz, 1879       | WWQ | MEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1279  | <i>P. styla</i>       |                     | Evans, 1937       | WWQ | DRF | SL  | BUM | *  | ~  | ~  | ~  | gola |                 |                 |
| 1280  | <i>P. saga</i>        |                     | Evans, 1937       | WWQ | MEF | SL@ | ~~~ |    |    |    |    | GOLA | x               | ~               |
| <b>KEDESTES Watson, 1893</b>                      |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1281  | <i>K. protensa</i>    |                     | Butler, 1901      | WWN | GUI | SL  | BUB |    |    |    |    |      |                 |                 |
| <b>GORGYRA Holland, 1896</b>                      |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1284  | <i>G. aretina</i>     |                     | Hewitson, 1878    | WWQ | ALF | SL  | BUB |    |    |    |    | GOLA | x               | ~               |
| 1285  | <i>G. heterochrus</i> |                     | Mabille, 1890     | WWQ | MEF | SL  | BUB |    |    |    |    | GOLA | x               | ~               |
| 1286  | <i>G. mocquersyia</i> |                     | Holland, 1896     | WWQ | ALF | SL  | BUB |    |    |    |    | GOLA | x               | N               |
| 1287  | <i>G. aburae</i>      |                     | Plötz, 1879       | WWC | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1289  | <i>G. bina</i>        |                     | Evans, 1937       | WWQ | MEF | SL  | BUM | ** | ~  | ~  | ~  | GOLA | x               | ~               |
| 1290  | <i>G. sola</i>        |                     | Evans, 1937       | WWC | MEF | SL  | BUB |    |    |    |    | GOLA | x               | ~               |
| 1291  | <i>G. afikpo</i>      |                     | Druce, 1909       | WWQ | MEF | SL  | BUM |    |    |    |    | gola |                 |                 |
| 1292  | <i>G. diversata</i>   |                     | Evans 1937        | WWQ | DRF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1293  | <i>G. bule</i>        |                     | Miller, 1964      | VOQ | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1294  | <i>G. minima</i>      |                     | Holland, 1896     | WWQ | DRF | SL  | bum |    |    |    |    | ooo  |                 |                 |

| No.                                       | Species                | Subspecies          | Author          | DIS | HAB | SL | BU  | RF  | OF | FB  | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---|------------------------|---------------------|-----------------|-----|-----|----|-----|-----|----|-----|----|------|-----------------|-----------------|
| 1295                                      | <i>G. sara</i>         |                     | Evans, 1937     | WWC | ALF | SL | BUM | *   | ~  | ~   | ~  | GOLA | x               | ~               |
| 1296                                      | <i>G. subfacatus</i>   |                     | Mabille, 1889   | WWN | ALF | SL | bum |     |    |     |    | gola |                 |                 |
| 1297                                      | <i>G. pali</i>         |                     | Evans, 1937     | WWQ | MEF | SL | BUM | ~   | *  | ~   | ~  | gola |                 |                 |
| <b>GYROGRA Lindsey &amp; Miller, 1965</b> |                        |                     |                 |     |     |    |     |     |    |     |    |      |                 |                 |
| 1299                                      | <i>G. subnotata</i>    |                     | Holland, 1894   | WWC | ALF | SL | bum |     |    |     |    | GOLA | ~               | N               |
| <b>CERATRICHIA Butler, 1870</b>           |                        |                     |                 |     |     |    |     |     |    |     |    |      |                 |                 |
| 1301                                      | <i>C. phocion</i>      | <i>phocion</i>      | Fabricius, 1781 | WWC | MEF | SL | BUB |     |    |     |    | GOLA | x               | x               |
| 1302                                      | <i>C. semilutea</i>    |                     | Mabille, 1891   | WWQ | MEF | SL | BUB |     |    |     |    | gola |                 |                 |
| 1303                                      | <i>C. clara</i>        | <i>clara</i>        | Evans, 1937     | WWC | WEF | ~~ | ... |     |    |     |    | ...  |                 |                 |
| 1305                                      | <i>C. crowleyi</i>     |                     | Riley, 1925     | ENL | WEF | SL | ooo |     |    |     |    | GOLA | x               | x               |
| 1306                                      | <i>C. nothus</i>       | <i>nothus</i>       | Fabricius, 1787 | WWC | WEF | SL | BUM | **  | ** | ~   | ~  | gola |                 |                 |
|   | <i>C. nothus</i>       | <i>enantia</i>      | Karsch, 1893    | "   | "   |    |     |     |    |     |    |      |                 |                 |
| 1307                                      | <i>C. argyrosticta</i> | <i>argyrosticta</i> | Plötz, 1879     | WWQ | WEF | ~~ | ... |     |    |     |    | ...  |                 |                 |
| 1308                                      | <i>C. maesseni</i>     |                     | Miller, 1971    | ENG | WEF | ~~ | ... |     |    |     |    | ...  |                 |                 |
| <b>TENIORHINUS Holland, 1892</b>          |                        |                     |                 |     |     |    |     |     |    |     |    |      |                 |                 |
| 1309                                      | <i>T. watsoni</i>      |                     | Holland, 1892   | WWC | MEF | SL | BUM | *** | ~  | ~   | ~  | GOLA | x               | x               |
| 1310                                      | <i>T. ignita</i>       |                     | Mabille, 1877   | WWQ | MEF | SL | bum |     |    |     |    | GOLA | x               | x               |
| <b>PARDALEODES Butler, 1870</b>           |                        |                     |                 |     |     |    |     |     |    |     |    |      |                 |                 |
| 1311                                      | <i>P. incerta</i>      | <i>murcia</i>       | Plötz, 1883     | WWT | GUI | SL | BUM | ~   | ~  | *** | *  |      |                 |                 |
| 1312                                      | <i>P. edipus</i>       |                     | Stoll, 1781     | WWQ | ALF | SL | BUM | ~   | ** | **  | ~  | GOLA | x               | x               |
| 1313                                      | <i>P. sator</i>        | <i>sator</i>        | Westwood, 1852  | WWQ | MEF | SL | BUM | ~   | *  | ~   | ~  | GOLA | x               | N               |
| 1314                                      | <i>P. tibullus</i>     | <i>tibullus</i>     | Fabricius, 1793 | WWQ | MEF | SL | BUB |     |    |     |    | GOLA | ~               | N               |
| 1315                                      | <i>P. xanthopeplus</i> |                     | Holland, 1892   | GHC | WEF | ~~ | ... |     |    |     |    | ...  |                 |                 |
| <b>XANTHODISCA Aurivillius, 1925</b>      |                        |                     |                 |     |     |    |     |     |    |     |    |      |                 |                 |
| 1317                                      | <i>X. rega</i>         |                     | Mabille, 1890   | WWN | ALF | SL | BUB |     |    |     |    | gola |                 |                 |
| 1318                                      | <i>X. astrape</i>      |                     | Holland, 1892   | WWQ | MEF | SL | ooo |     |    |     |    | gola |                 |                 |
| <b>PAROSMODES Holland, 1896</b>           |                        |                     |                 |     |     |    |     |     |    |     |    |      |                 |                 |
| 1320                                      | <i>P. morantii</i>     | <i>axis</i>         | Evans, 1937     | AFR | SUD | SL | ~~~ |     |    |     |    | ~~~  |                 |                 |
| 1321                                      | <i>P. lentiginosa</i>  |                     | Holland, 1896   | WWC | ALF | SL | BUB |     |    |     |    | gola |                 |                 |
| <b>RHABDOMANTIS Holland, 1896</b>         |                        |                     |                 |     |     |    |     |     |    |     |    |      |                 |                 |
| 1322                                      | <i>R. galatia</i>      |                     | Hewitson, 1868  | WWQ | MEF | SL | BUB |     |    |     |    | gola |                 |                 |
| 1323                                      | <i>R. sosia</i>        |                     | Mabille, 1891   | WWQ | MEF | SL | ~~~ |     |    |     |    | gola |                 |                 |

| No.                             | Species               | Subspecies          | Author            | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---------------------------------|-----------------------|---------------------|-------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>OSMODES Holland, 1892</b>    |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1324                            | <i>O. laronia</i>     |                     | Hewitson, 1868    | WWQ | ALF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1325                            | <i>O. omar</i>        |                     | Swinhoe, 1916     | WWQ | DRF | SL  | BUB |    |    |    |    | GOLA | ~               | x               |
| 1326                            | <i>O. lux</i>         |                     | Holland, 1892     | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1328                            | <i>O. thora</i>       |                     | Plötz, 1884       | WWQ | ALF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1329                            | <i>O. distincta</i>   |                     | Holland, 1896     | WWQ | WEF | SL  | ~~~ |    |    |    |    | GOLA | ~               | N               |
| 1330                            | <i>O. adon</i>        |                     | Mabille, 1890     | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1332                            | <i>O. adosus</i>      |                     | Mabille, 1890     | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1333                            | <i>O. lindseyi</i>    | <i>occidentalis</i> | Miller, 1971      | WWC | MEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1334                            | <i>O. costatus</i>    |                     | Aurivillius, 1896 | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1335                            | <i>O. banghaasi</i>   |                     | Holland, 1896     | GHQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>OSPHANTES Holland, 1896</b>  |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1336                            | <i>O. ogowena</i>     | <i>ogowena</i>      | Mabille, 1891     | WWQ | WEF | SL  |     |    |    |    |    | gola |                 |                 |
| <b>PARACLEROS Berger, 1978</b>  |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1337                            | <i>P. placidus</i>    |                     | Plötz, 1879       | ENW | MEF | SL@ | BUM | ** | ** | ~  | ~  | gola |                 |                 |
| 1338                            | <i>P. biguttulus</i>  |                     | Mabille, 1890     | WWQ | ALF | SL  | BUM | *  | *  | ~  | ~  | GOLA | x               | x               |
| 1339                            | <i>P. substrigata</i> |                     | Holland, 1893     | GHQ | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1340                            | <i>P. maesseni</i>    |                     | Berger, 1978      | GHN | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>ACLEROS Mabille, 1885</b>    |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1341                            | <i>A. ploetzi</i>     |                     | Mabille, 1890     | AFR | ALF | SL  | BUB |    |    |    |    | GOLA | x               | x               |
| 1342                            | <i>A. mackeenii</i>   | <i>olaus</i>        | Plötz, 1884       | AFR | ALF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1343                            | <i>A. nigrapex</i>    |                     | Strand, 1913      | WWQ | MEF | SL@ | BUB |    |    |    |    | GOLA | x               | ~               |
| 1344                            | <i>A. bala mss</i>    |                     |                   | ENG | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>SEMALEA Holland, 1896</b>    |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1345                            | <i>S. pulvina</i>     |                     | Plötz, 1879       | WWQ | ALF | SL  | BUM | *  | ~  | ~  | ~  | gola |                 |                 |
| 1346                            | <i>S. sextilis</i>    |                     | Plötz, 1886       | WWQ | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1347                            | <i>S. atrio</i>       |                     | Mabille, 1891     | WWQ | WEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1349                            | <i>S. arela</i>       |                     | Mabille, 1891     | AFR | DRF | SL  | BUB |    |    |    |    | gola |                 |                 |
| <b>HYPOLEUCIS Mabille, 1891</b> |                       |                     |                   |     |     |     |     |    |    |    |    |      |                 |                 |
| 1350                            | <i>H. ophiusa</i>     | <i>ophiusa</i>      | Hewitson, 1866    | WWQ | ALF | SL  | BUM | *  | *  | *  | ~  | GOLA | ~               | N               |
| 1351                            | <i>H. tripunctata</i> | <i>tripunctata</i>  | Mabille, 1891     | WWQ | MEF | SL  | bum |    |    |    |    | gola |                 |                 |
| 1352                            | <i>H. sophia</i>      |                     | Evans, 1937       | GHQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |



| No.                                | Species              | Subspecies      | Author                 | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|------------------------------------|----------------------|-----------------|------------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>MEZA Hemming, 1939</b>          |                      |                 |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1353                               | <i>M. indusiata</i>  |                 | Mabille, 1891          | WWQ | ALF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1354                               | <i>M. meza</i>       |                 | Hewitson, 1877         | WWQ | ALF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | ~               | N               |
| 1355                               | <i>M. mabea</i>      |                 | Holland, 1893          | WWQ | MEF | SL  | ... |    |    |    |    | ...  |                 |                 |
| 1356                               | <i>M. leucophaea</i> | <i>bassa</i>    | Lindsey & Miller, 1965 | WWC | MEF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | x               | ~               |
| 1357                               | <i>M. elba</i>       |                 | Evans, 1937            | WWC | MEF | SL  | bum |    |    |    |    | gola |                 |                 |
| 1358                               | <i>M. mabillei</i>   |                 | Holland, 1894          | WWQ | WEF | SL  | ooo |    |    |    |    | GOLA | x               | ~               |
| 1359                               | <i>M. cybeutes</i>   | <i>volta</i>    | Miller, 1971           | WWQ | ALF | SL  | bum |    |    |    |    | GOLA | x               | ~               |
| <b>PARONYMUS Aurivillius, 1925</b> |                      |                 |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1361                               | <i>P. xanthias</i>   | <i>xanthias</i> | Mabille, 1891          | WWQ | WEF | SL  | BUB |    |    |    |    | GOLA | ~               | N               |
| 1363                               | <i>P. ligora</i>     |                 | Hewitson, 1876         | WWQ | MEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1364                               | <i>P. nevea</i>      |                 | Druce, 1910            | WWQ | WEF | SL@ | ~~~ |    |    |    |    | ~~~  |                 |                 |
| <b>ANDRONYMUS Holland, 1896</b>    |                      |                 |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1365                               | <i>A. neander</i>    | <i>neander</i>  | Plötz, 1884            | AFR | ALF | SL  | bum |    |    |    |    | gola |                 |                 |
| 1367                               | <i>A. caesar</i>     | <i>caesar</i>   | Fabricius, 1793        | AFR | ALF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | x               | ~               |
| 1368                               | <i>A. hero</i>       |                 | Evans, 1937            | WWQ | MEF | SL  | bum |    |    |    |    | GOLA | x               | x               |
| 1369                               | <i>A. helles</i>     |                 | Evans, 1937            | WWQ | MEF | SL  | BUM | ** | ** | ~  | ~  | GOLA | ~               | N               |
| 1370                               | <i>A. evander</i>    |                 | Mabille, 1890          | WWC | MEF | SL  | BUM | ** | ~  | ~  | ~  | gola |                 |                 |
| <b>ZOPHOPETES Mabille, 1904</b>    |                      |                 |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1373                               | <i>Z. ganda</i>      |                 | Evans, 1937            | GHQ | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1374                               | <i>Z. cerymica</i>   |                 | Hewitson, 1867         | WWC | ALF | SL  | BUB |    |    |    |    | gola |                 |                 |
| 1375                               | <i>Z. haifa</i>      |                 | Evans, 1937            | GHC | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1376                               | <i>Z. quaternata</i> |                 | Mabille, 1876          | ENW | SPE | SL@ | ~~~ |    |    |    |    | ...  |                 |                 |
| <b>GAMIA Holland, 1896</b>         |                      |                 |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1377                               | <i>G. buchholzi</i>  |                 | Plötz, 1879            | WWQ | WEF | SL  | ooo |    |    |    |    | gola |                 |                 |
| 1378                               | <i>G. shelleyi</i>   |                 | Sharpe, 1890           | WWQ | WEF | SL@ | ooo |    |    |    |    | gola |                 |                 |
| <b>ARTITROPA Holland, 1896</b>     |                      |                 |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1379                               | <i>A. comus</i>      |                 | Stoll, 1782            | WWC | MEF | SL  | ooo |    |    |    |    | gola |                 |                 |
| <b>MOPALA Evans, 1937</b>          |                      |                 |                        |     |     |     |     |    |    |    |    |      |                 |                 |
| 1380                               | <i>M. orma</i>       |                 | Plötz, 1879            | WWC | MEF | SL@ | ooo |    |    |    |    | gola |                 |                 |

| No.                             | Species               | Subspecies      | Author                   | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|---------------------------------|-----------------------|-----------------|--------------------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| <b>GRETNA Evans, 1937</b>       |                       |                 |                          |     |     |     |     |    |    |    |    |      |                 |                 |
| 1381                            | <i>G. waga</i>        |                 | Plötz, 1886              | WWQ | ALF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | x               | ~               |
| 1382                            | <i>G. carmen</i>      |                 | Evans, 1937              | GHT | ALF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1383                            | <i>G. cylinda</i>     |                 | Hewitson, 1876           | WWQ | MEF | SL  | bum |    |    |    |    | GOLA | x               | ~               |
| 1385                            | <i>G. lacida</i>      |                 | Hewitson, 1876           | WWC | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1386                            | <i>G. balenge</i>     | <i>zowa</i>     | Lindsey & Miller, 1965   | WWQ | MEF | SL  | BUM | *  | ~  | ~  | ~  | gola |                 |                 |
| <b>PTEROTEINON Watson, 1893</b> |                       |                 |                          |     |     |     |     |    |    |    |    |      |                 |                 |
| 1387                            | <i>P. laufella</i>    |                 | Hewitson, 1868           | WWC | ALF | SL  | BUM | *  | ~  | ~  | ~  | GOLA | x               | x               |
| 1388                            | <i>P. iricolor</i>    |                 | Holland, 1890            | WWC | WEF | SL  | ~~~ |    |    |    |    | GOLA | x               | ~               |
| 1389                            | <i>P. laterculus</i>  |                 | Holland, 1890            | WWC | WEF | SL@ | ~~~ |    |    |    |    | GOLA | x               | ~               |
| 1390                            | <i>P. capronnieri</i> |                 | Plötz, 1879              | GHQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1391                            | <i>P. caenira</i>     |                 | Hewitson, 1867           | WWQ | ALF | SL  | BUB |    |    |    |    | GOLA | x               | N               |
| 1392                            | <i>P. ceucaenira</i>  |                 | Druce, 1910              | WWQ | WEF | SL  | ~~~ |    |    |    |    | GOLA | x               | N               |
| 1393                            | <i>P. concaenira</i>  |                 | Belcastro & Larsen, 1996 | WWQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1394                            | <i>P. pruna</i>       |                 | Evans, 1937              | WWQ | WEF | SL  | BUB |    |    |    |    | gola |                 |                 |
| <b>LEONA Evans, 1937</b>        |                       |                 |                          |     |     |     |     |    |    |    |    |      |                 |                 |
| 1395                            | <i>L. binoevatus</i>  |                 | Mabille, 1891            | WWC | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1396                            | <i>L. maracanda</i>   |                 | Hewitson, 1876           | GHQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1397                            | <i>L. lota</i>        |                 | Evans, 1937              | GHQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1398                            | <i>L. lena</i>        |                 | Evans, 1937              | GHQ | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1399                            | <i>L. leonora</i>     | <i>leonora</i>  | Plötz, 1879              | WWQ | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1400                            | <i>L. na</i>          |                 | Lindsey & Miller, 1965   | ENL | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1401                            | <i>L. stoehri</i>     |                 | Karsch, 1893             | GHC | WEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1402                            | <i>L. meloui</i>      |                 | Riley, 1926              | WWC | MEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| 1403                            | <i>L. halma</i>       |                 | Evans, 1937              | WWC | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1405                            | <i>L. luehderi</i>    | <i>luehderi</i> | Plötz, 1879              | WWU | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |
| <b>CAENIDES Holland, 1896</b>   |                       |                 |                          |     |     |     |     |    |    |    |    |      |                 |                 |
| 1406                            | <i>C. soritia</i>     |                 | Hewitson, 1876           | WWC | WEF | SL  | ooo |    |    |    |    | GOLA | ~               | N               |
| 1407                            | <i>C. kangvensis</i>  |                 | Holland, 1896            | WWQ | MEF | SL  | bum |    |    |    |    | gola |                 |                 |
| 1408                            | <i>C. cf xychus</i>   |                 | Mabille, 1891            | WWQ | WEF | SL  | BUM | *  | ~  | ~  | ~  | gola |                 |                 |
| 1409                            | <i>C. bengalensis</i> |                 | Holland, 1891            | WWC | WEF | SL  | ~~~ |    |    |    |    | GOLA | x               | ~               |
| 1410                            | <i>C. otilia</i>      |                 | Belcastro, 1990          | WWC | WEF | SL  | ~~~ |    |    |    |    | gola |                 |                 |

| No.                               | Species               | Subspecies  | Author                   | DIS | HAB | SL  | BU  | RF | OF | FB  | GU  | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-----------------------------------|-----------------------|-------------|--------------------------|-----|-----|-----|-----|----|----|-----|-----|------|-----------------|-----------------|
| 1411                              | <i>C. dacenilla</i>   |             | Aurivillius, 1925        | WWC | WEF | SL@ | ~~~ |    |    |     |     | GOLA | x               | ~               |
| 1412                              | <i>C. dacela</i>      |             | Hewitson, 1876           | WWQ | ALF | SL  | BUM | *  | ~  | ~   | ~   | GOLA | x               | x               |
| 1413                              | <i>C. hidaroides</i>  |             | Aurivillius, 1896        | WWQ | WEF | SL  | ~~~ |    |    |     |     | gola |                 |                 |
| 1414                              | <i>C. dacena</i>      |             | Hewitson, 1876           | WWQ | MEF | SL  | BUB |    |    |     |     | gola |                 |                 |
| <b>MONZA Evans, 1937</b>          |                       |             |                          |     |     |     |     |    |    |     |     |      |                 |                 |
| 1415                              | <i>M. alberti</i>     |             | Holland, 1896            | WWQ | ALF | SL  | BUM | *  | ~  | ~   | ~   | GOLA | x               | x               |
| 1416                              | <i>M. cretacea</i>    |             | Snellen, 1872            | WWQ | ALF | SL  | BUM | ~  | *  | ~   | ~   | gola |                 |                 |
| <b>MELPHINA Evans, 1937</b>       |                       |             |                          |     |     |     |     |    |    |     |     |      |                 |                 |
| 1417                              | <i>M. noctula</i>     |             | Druce, 1909              | WWQ | WEF | SL@ | ~~~ |    |    |     |     | gola |                 |                 |
| 1418                              | <i>M. melphis</i>     |             | Holland, 1893            | WWC | WEF | SL  | ~~~ |    |    |     |     | GOLA | ~               | x               |
| 1419                              | <i>M. unistriga</i>   |             | Holland, 1893            | WWQ | MEF | SL  | BUM | ~  | *  | ~   | ~   | GOLA | x               | N               |
| 1420                              | <i>M. tarace</i>      |             | Mabille, 1891            | WWQ | MEF | SL  | BUB |    |    |     |     | GOLA | x               | N               |
| 1421                              | <i>M. flavina</i>     |             | Lindsey & Miller, 1965   | WWQ | MEF | SL@ | BUB |    |    |     |     | GOLA | x               | N               |
| 1422                              | <i>M. statirides</i>  |             | Holland, 1896            | WWC | MEF | SL  | ~~~ |    |    |     |     | GOLA | x               | x               |
| 1423                              | <i>M. statira</i>     |             | Mabille, 1891            | WWC | WEF | SL  | BUM | ** | *  | ~   | ~   | gola |                 |                 |
| 1425                              | <i>M. malthina</i>    |             | Hewitson, 1876           | WWC | WEF | SL  | BUB |    |    |     |     | GOLA | x               | ~               |
| 1426                              | <i>M. maximiliani</i> |             | Belcastro & Larsen, 2005 | ENW | DRF | SL  | BUB |    |    |     |     | gola |                 |                 |
| <b>FRESNA Evans, 1937</b>         |                       |             |                          |     |     |     |     |    |    |     |     |      |                 |                 |
| 1427                              | <i>F. netopha</i>     |             | Hewitson, 1878           | WWQ | DRF | SL  | BUM | *  | ~  | ~   | ~   | gola |                 |                 |
| 1428                              | <i>F. maesseni</i>    |             | Miller, 1971             | GHC | MEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 1429                              | <i>F. nyassae</i>     |             | Hewitson, 1878           | WWQ | DRF | SL  | bum |    |    |     |     | GOLA | x               | ~               |
| 1430                              | <i>F. cojo</i>        |             | Karsch, 1893             | WWQ | ALF | SL  | BUB |    |    |     |     | gola |                 |                 |
| 1431                              | <i>F. carlo</i>       |             | Evans, 1937              | WWQ | MEF | ~~  | ... |    |    |     |     | ...  |                 |                 |
| <b>PLATYLESCHES Holland, 1896</b> |                       |             |                          |     |     |     |     |    |    |     |     |      |                 |                 |
| 1432                              | <i>P. galesa</i>      |             | Hewitson, 1877           | AFR | ALF | SL  | BUM | ~  | *  | *   | ~   | GOLA | x               | N               |
| 1433                              | <i>P. robustus</i>    | <i>fofi</i> | Larsen & Mei, 1998       | WWQ | GUI | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 1434                              | <i>P. moritili</i>    |             | Wallengren, 1857         | AFR | GUI | SL  | bum |    |    |     |     | ~~~  |                 |                 |
| 1435                              | <i>P. rossii</i>      |             | Belcastro, 1986          | ENW | DRF | SL  | ~~~ |    |    |     |     | GOLA | x               | ~               |
| 1436                              | <i>P. langa</i>       |             | Evans, 1937              | VOQ | GUI | ~~  | ... |    |    |     |     | ...  |                 |                 |
| 1437                              | <i>P. picanini</i>    |             | Holland, 1894            | AFR | ALF | SL  | BUM | ~  | *  | *** | *   | GOLA | x               | x               |
| 1438                              | <i>P. lamba</i>       |             | Neave, 1910              | WWQ | MEF | SL@ | ~~~ |    |    |     |     | gola |                 |                 |
| 1439                              | <i>P. affinissima</i> |             | Strand, 1921             | WWQ | DRF | SL  | BUM | ~  | ~  | *** | *** | GOLA | x               | ~               |

| No.                           | Species               | Subspecies         | Author          | DIS | HAB | SL  | BU  | RF | OF | FB | GU | GOLA | S <sup>th</sup> | N <sup>th</sup> |
|-------------------------------|-----------------------|--------------------|-----------------|-----|-----|-----|-----|----|----|----|----|------|-----------------|-----------------|
| 1440                          | <i>P. chamaeleon</i>  | <i>chamaeleon</i>  | Mabille, 1891   | WWQ | DRF | SL  | BUM | *  | ~  | ** | ** | GOLA | X               | N               |
| 1441                          | <i>P. batangae</i>    |                    | Holland, 1894   | WWQ | DRF | SL  | bum |    |    |    |    | gola |                 |                 |
| 1442                          | <i>P. iva</i>         |                    | Evans, 1937     | ??? | ??? | ~~  | ... |    |    |    |    | ...  |                 |                 |
| <b>PELOPIDAS Walker, 1870</b> |                       |                    |                 |     |     |     |     |    |    |    |    |      |                 |                 |
| 1444                          | <i>P. mathias</i>     |                    | Fabricius, 1798 | AFR | UBQ | SL  | BUM | ~  | ~  | *  | ** | gola |                 |                 |
| 1445                          | <i>P. thrax</i>       |                    | Hübner, 1821    | AFR | UBQ | SL  | BUM | ~  | ~  | *  | ** | gola |                 |                 |
| <b>BORBO Evans, 1949</b>      |                       |                    |                 |     |     |     |     |    |    |    |    |      |                 |                 |
| 1446                          | <i>B. fallax</i>      |                    | Gaede, 1916     | AFR | GUI | SL  | BUM |    |    |    | ** | gola |                 |                 |
| 1447                          | <i>B. fanta</i>       |                    | Evans, 1937     | AFR | GUI | SL  | BUM | ~  | ~  | *  | ~  | gola |                 |                 |
| 1448                          | <i>B. perobscura</i>  |                    | Druce, 1912     | AFR | GUI | SL  | BUB |    |    |    |    | ooo  |                 |                 |
| 1449                          | <i>B. micans</i>      |                    | Holland, 1896   | AFR | SPE | SL  | BUM |    |    |    | *  | ooo  |                 |                 |
| 1450                          | <i>B. borbonica</i>   | <i>borbonica</i>   | Boisduval, 1833 | AFR | GUI | SL  | bum |    |    |    |    | GOLA | X               | ~               |
| 1451                          | <i>B. gemella</i>     |                    | Mabille, 1884   | AFR | GUI | SL  | BUM | *  | ~  | ~  | ~  | ooo  |                 |                 |
| 1452                          | <i>B. binga</i>       |                    | Evans, 1937     | WWC | MEF | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1453                          | <i>B. fatuellus</i>   | <i>fatuellus</i>   | Hopffer, 1855   | AFR | UBQ | SL  | BUM | ~  | ~  | *  | ~  | gola | ~               | N               |
| 1454                          | <i>B. holtzi</i>      |                    | Plötz, 1883     | AFR | GUI | SL  | BUM |    |    |    |    | ooo  |                 |                 |
| 1455                          | <i>B. liana</i>       |                    | Evans, 1937     | ENL | ??? | SL? | ~~~ |    |    |    |    | ooo  |                 |                 |
| <b>PARNARA Moore, 1881</b>    |                       |                    |                 |     |     |     |     |    |    |    |    |      |                 |                 |
| 1456                          | <i>P. monasi</i>      |                    | Trimen, 1889    | AFR | GUI | SL  | BUB |    |    |    |    | gola |                 |                 |
| <b>GEGENES Hübner, 1819</b>   |                       |                    |                 |     |     |     |     |    |    |    |    |      |                 |                 |
| 1457                          | <i>G. 'pumilio'</i>   | <i>gambica</i>     | Mabille, 1878   | AFR | SUD | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1458                          | <i>G. nostradamus</i> |                    | Fabricius, 1793 | WWE | SPE | ~~  | ... |    |    |    |    | ...  |                 |                 |
| 1459                          | <i>G. niso</i>        | <i>brevicornis</i> | Plötz, 1884     | AFR | GUI | SL  | BUM | ~  | ~  | *  | ** | ooo  |                 |                 |
| 1460                          | <i>G. hottentota</i>  |                    | Latreille, 1824 | AFR | DRF | SL  | BUB |    |    |    |    | ~~~  |                 |                 |

## SOME BUTTERFLIES IN NATURE



The beautiful angular glider (*Harma theobene*) in Gola (East) to the left. Next to it a large black-bordered charaxes (*Charaxes pollux*), which seems to be common in Sierra Leone.



A flock of the African leopard fritillary (*Phalantha eurytis*) and several small Lycaenidae on dog excrement. To the right a male common acraea skipper (*Fresna netopha*) – which is actually quite uncommon in Sierra Leone.



The curious African palmfly (*Elymniopsis bammakoo*) is a forest butterfly that has never been near Bamako, but is closely related to an Asian group of Satyrinae. The widespread forester (*Euphaedra medon*) is the most common, widespread, and ecologically flexible of the largest African butterflies genus (180 species or so).

SOME OF THE MOST INTERESTING SPECIES



*Graphium illyris*



*Charaxes nobilis claudei*



*Euriphene lomaensis*



*Ornipholidotos nympa*



*Bicyclus dekeyseri*



*Citrinophila erastus*



*Eresiomera petersi*



*Anthene radiata*



*Cymothoe hartigi*



*Tetrarhanis baralingam*



*Anthene mahota*



*Spindasis iza*



*Anthene scintillula aurea*



*Caenides dacenilla*



*Platylesches rossi*

## MEMBERS OF THE TEAM



Chief Kenneh with Larsen's West Africa book in its proper habitat at Nemongoima Forest Camp. To the right – hard work in hot weather: much nicer inside the forest, but all habitats have their special butterflies.



Alhaji Siaka and Torben Larsen discuss butterfly identification. Claudio Belcastro and Momodou with a butterfly trap.



Larsen, Kenneh, and Sam Kallon discuss a butterfly.



John DeMarco managed to mix orchids and butterflies.