

An illustrated report on the larvae, adults and host associations of 424 African Lepidoptera taxa belonging to the Papilionoidea. A second report of the Caterpillar Rearing Group of LepSoc Africa.

Published online: 31 December 2017

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Abstract: The larvae, adults and host associations of 424 African Lepidoptera taxa belonging to the Papilionoidea are reported. The final instar larva and adult are illustrated for each rearing. We record 193 new larval host associations and illustrate the final instar larvae of 206 taxa for the first time.

Key words: Larval host plants, butterflies

Citation: Congdon, T.C.E., Bampton, I.[†], Collins, S.C. 2017. An illustrated report on the larvae, adults and host associations of 424 African Lepidoptera taxa belonging to the Papilionoidea. A second report of the Caterpillar Rearing Group of LepSoc Africa. *Metamorphosis* 28: 57–62.

INTRODUCTION

The publication of the first CRG (Caterpillar Rearing Group) article, listing the host associations of 962 African Lepidoptera species, including illustrations of the larvae and adults (Staudé *et al.*, 2016), inspired the first author to compile similar lists from the wealth of unpublished information, images and data the authors had gathered over many years of studying African butterfly early stages. The resultant lists are published here and have been incorporated into the main CRG database on host associations of Afrotropical Lepidoptera.

The CRG is an initiative of LepSocAfrica, which aims to record the early stages, the host associations and parasitoids of all Afrotropical Lepidoptera.

Although many workers, over more than a century, have studied the life histories of the Papilionoidea of the Afrotropical Region we are still very far from establishing a comprehensive database of their early stages and larval hosts. Of the 4370 species of Afrotropical butterflies, information about the early stages has been published for only 937 species (21.4% of the total number of species). The situation is not much better as regards published information for larval hosts; this is available for 1403 species (32.1% of the species total) (Williams, 2017) (Table 1). The picture is, unfortunately, even more bleak than it seems since

information on the early stages of a particular species may only include a brief description of the egg. Data on larval hosts is also frequently of low quality; for example a host-plant record may only specify 'grass' or 'Loranthaceae'. The upside to this state of affairs, however, is that there is basic scientific work to be done for generations to come.

In this article we report on our work done over more than half a century. We tabulate 458 rearing records for 424 taxa of Afrotropical butterflies. Some of the records represent rearing information that has been reported in the literature before, but is often from a locality different from those noted previously (Bampton & Congdon, 1998; Congdon & Bampton, 2000; Congdon, Bampton & Collins, 2009). A number of new larval hosts are reported and many of the final instar larvae are illustrated for the first time. Amongst our unpublished notes there remain a lot of, as yet, unpublished host associations and images that we could not readily compile in time for this publication but we intend to make these available in a future publication.

METHODS AND MATERIALS

Most of the field work was done mainly in Tanzania between 1990 and 2015, with particular attention being paid to certain taxa, for example the speciose genera *Charaxes* and *Iolus*. Field conditions were often difficult and sometimes appalling, with frequent initial failures as a result. Preserved plant material on which females had been observed ovipositing, or on which larvae were reared was identified at a later date, mostly by professional botanists at the herbarium in the Royal Botanical Gardens, Kew, London. Plant names were checked against *Mabberley's Plant-Book* 3rd edition, Cambridge University Press (D.J. Mabberley, 2008).

Received: 23 December 2017

Published: 31 December 2017

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Table 1 – Afrotropical butterfly taxa early stages and larval host records (data from Williams, 2017)

SUPERFAMILY/ FAMILY	SUBFAMILY	NO. OF SPECIES IN TAXON	EARLY STAGES RECORDED	LARVAL HOST(S) RECORDED
Papilionoidea		4370	937 (21.4%)	1403 (32.1%)
Papilionidae		101	26 (26%)	48 (48%)
Hesperiidae		615	179 (29%)	243 (40%)
Nymphalidae		1619	364 (22%)	535 (33%)
Nymphalidae	Danainae	26	9 (35%)	15 (58%)
Nymphalidae	Libytheinae	5	1 (20%)	1 (20%)
Nymphalidae	Satyrinae	348	57 (16%)	65 (19%)
Nymphalidae	Charaxinae	191	98 (51%)	107 (56%)
Nymphalidae	Nymphalinae	73	24 (33%)	49 (67%)
Nymphalidae	Cyrestinae	1	1 (100%)	1 (100%)
Nymphalidae	Biblidinae	32	7 (22%)	21 (66%)
Nymphalidae	Apaturinae	3	1 (33%)	0 (0%)
Nymphalidae	Heliconiinae	256	78 (30%)	122 (48%)
Nymphalidae	Limenitidinae	684	88 (13%)	154 (23%)
Pieridae		199	52 (26%)	102 (51%)
Riodinidae		15	1 (7%)	1 (7%)
Lycaenidae		1818	315 (17%)	474 (26%)
Lycaenidae	Poritiinae	659	44 (7%)	41 (6%)
Lycaenidae	Miletinae	103	23 (22%)	17 (17%)
Lycaenidae	Aphnaeinae	260	76 (29%)	106 (41%)
Lycaenidae	Polyommatainae	496	100 (20%)	182 (37%)
Lycaenidae	Lycaeninae	3	3 (100%)	3 (100%)
Lycaenidae	Theclinae	297	69 (23%)	125 (42%)

Plant nomenclature follows that used by the African Plants Database (<http://www.village.ch/musinfo/bd/cjb/africa/index.php>).

Butterfly nomenclature follows Williams (2015, 2017).

RESULTS

The full set of results are presented in seven master lists which are published in this volume and accompany this article under the following headings:

Papilionidae (pp 63–68)

Hesperiidae (pp 69–82)

Nymphalidae 1 (Danainae; Libytheinae; Satyrinae; Charaxinae; Nymphalinae; Cyrestinae; Biblidinae) (pp 83–98)

Nymphalidae 2 (Heliconiinae; Limenitidinae) (pp 99–114)

Pieridae & Riodinidae (pp 115–120)

Lycaenidae 1 (Poritiinae; Miletinae; Aphnaeinae; Polyommatainae; Lycaeninae) (pp 121–132)

Lycaenidae 2 (Theclinae) (pp 133–150)

The final “Points” column in the master lists refers to the scoring of each rearing experiment as described in Staude *et al.* (2016).

List of larval host records published for the first time (193 records)

Uvaria angolensis for *Graphium poggianus*

Toddalia asiatica for *Papilio aristophontes*

Vepris glomerata for *Papilio constantinus*

Toddalia asiatica for *Papilio desmondi*

Clausena anisata for *Papilio fueleborni*

Toddalia asiatica for *Papilio interjectana*

Clausena anisata for *Papilio mackinnoni*

Fagaropsis sp. for *Papilio nireus*

Teclea sp. for *Papilio phorcus*

Markhamia sp. for *Coeliades forestan*

Pericopsis angolensis for *Coeliades forestan*

Turraea sp. for *Coeliades ramamatek*

Hypoestes aristata for *Apallaga biseriata*

Hypoestes sp. for *Apallaga alluaudi*

Acanthopale sp. for *Celaenorrhinus humbloti*

Triumfetta setulosa for *Spialia dromus*

Leersia hexandra for *Ampittia kilombo*

Oldeania alpina for *Zenonia zeno*

Cymbopogon sp. for *Pelopidas mathias*

Dracaena steudneri for *Gamia buchholzi*

Celtis philippensis for *Libythea laius*

Setaria palmifolia for *Gnophodes diversa*

Setaria palmifolia for *Bicyclus campina*

Grasses for *Bicyclus uzungwensis*

Festuca africana for *Aphysoneura pigmentaria*

Oldeania alpina for *Aphysoneura pigmentaria*

Grasses for *Neocoenyra fulleborni*

Grasses for *Neocoenyra heckmanni*

Grasses for *Neocoenyra petersi*

Grasses for *Neocoenyra pinheyi*

Grasses for *Physcaeneura jacksoni*

Grasses for *Neita orbipalus*

Brachystegia boehmii for *Charaxes chintechi*

Albizia gummifera for *Charaxes chunguensis*

Dalbergia boehmii for *Charaxes diversiforma*

- Brachystegia microphylla* for *Charaxes ethalion*
Cryptosepalum emarginatum for *Charaxes variata*
Albizia gummifera for *Charaxes mccleryi*
Bersama rosea for *Charaxes ansorgei*
Syzygium masukuense for *Charaxes druceanus*
Drypetes gerrardi for *Charaxes smaragdalis*
Urera sansibarica for *Hypolimnas antevorta*
Urera sp. for *Hypolimnas dinarcha*
Blepharis edulis for *Hypolimnas misippus*
Phaulopsis sp. for *Junonia artaxia*
Asystasia glandulosa for *Junonia oenone*
Mellera lobulata for *Protogoniomorpha temora*
Ficus aspersifolia for *Cyrestis camillus*
Maclura africana for *Cyrestis camillus*
Tragia impedita for *Ariadne enotrea*
Maprouna africana for *Sevenia amulia*
Kiggelaria africana for *Acraea insignis*
 Tuneraceae for *Acraea ranavalona*
Rinorea ilicifolia for *Acraea satis*
Adenia stolzii for *Acraea scalivittata*
Caloncoba sp. for *Acraea bergeriana*
Adenia goetzei for *Acraea omrora*
Oncoba tettensis for *Acraea petraea*
Adenia goetzei for *Acraea rhodesiana*
Hybanthus enneaspermus for *Pardopsis punctatissima*
Urera sansibarica for *Telchinia parrhasia*
Urera hypselodendron for *Telchinia acuta*
Triumfetta rhomboidea for *Telchinia alicia*
Urera hypselodendron for *Telchinia baxteri*
Boehmeria sp. for *Telchinia johnstoni*
Triumfetta rhomboidea for *Telchinia sotikensis*
Terminalia catappa for *Aterica rabena*
Hyphaene sp. for *Bebearia orientis*
Rawsonia sp. for *Cymothoe alcimeda*
Dasylepis integra for *Cymothoe amanuensis*
Rinorea ilicifolia for *Cymothoe egesta*
Dasylepis integra for *Cymothoe magambae*
Rawsonia lucida for *Cymothoe melanjae*
Rawsonia burtt-davyi for *Cymothoe melanjae*
Rinorea ilicifolia for *Cymothoe sangaris*
Dasylepis integra for *Cymothoe teita*
Lecaniodiscus sp. for *Euphaedra paradoxa*
Deinbollia fulvotomentella for *Euphaedra phosphor*
Deinbollia sp. for *Euphaedra rex*
Chrysophyllum gorongosum for *Euptera kinugnana*
Phyllocosmus lemaireanus for *Euryphura concordia*
Albizia gummifera for *Neptis alta*
Macaranga capensis var. *kilimandscharica* for *Neptis aurivillii*
Urera hypselodendron for *Neptis aurivillii*
Dalbergia lactea for *Neptis goochii*
Dalbergia lactea for *Neptis laeta*
Rourea thomsonii for *Neptis laeta*
Paullinia pinnata for *Neptis larseni*
Acacia pentagona for *Neptis nina*
Acalypha ornata for *Neptis saclava*
Entada abyssinica for *Neptis serena*
Urera trinervis for *Neptis swynnertoni*
Ochna holstii for *Neptis swynnertoni*
Chrysophyllum sp. for *Pseudacraea apaturoides*
Chrysophyllum gorongosum for *Pseudacraea deludens*
Englerophytum natalense for *Pseudacraea simulator*
Astragalus atropilosulus for *Colias electo*
Cadaba farinosa for *Colotis annae*
Maerua triphylla for *Colotis aurigineus*
Maerua sp. for *Colotis danae*
Cadaba farinosa for *Colotis ione*
 Capparaceae for *Gideona lucasi*
Persicaria lapathifolia for *Mylothris bernice*
Phragmanthera usuiensis for *Mylothris crawshayi*
Erianthemum sp. for *Mylothris jacksoni*
Oncella curviramea for *Mylothris kilimensis*
Oncella gracilis for *Mylothris leonora*
Globimetula pachyclada for *Mylothris rueppellii*
Englerina for *Mylothris sagala*
Agelanthus sp. for *Mylothris yulei*
Boscia salicifolia for *Teracolus eris*
Boscia salicifolia for *Teracolus subfasciatus*
Maesa lanceolata for *Afriodinia delicate*
 Cyanobacteria on termite mounds for *Alaena aurantiaca*
 Cyanobacteria on rocks for *Alaena bicolora*
 Cyanobacteria on rocks for *Alaena bjornstadi*
 Cyanobacteria on rocks for *Alaena dodomaensis*
 Cyanobacteria on rocks for *Alaena madibirensis*
 Cyanobacteria and lichen on rocks for *Alaena nyassa*
 Cyanobacteria on rocks for *Alaena picata*
 Cyanobacteria and lichen on rocks for *Alaena reticulata*
 Cyanobacteria and lichen on trees for *Cerautola crippi*
 Cyanobacteria and lichen on trees for *Cerautola crowleyi*
 Cyanobacteria and lichen on trees for *Cerautola fisheri*
 Cyanobacteria and lichen on trees for *Cerautola miranda*
 Cyanobacteria on trees for *Cephetola viridana*
 Cyanobacteria on trees for *Euthecta cooksoni*
 Cyanobacteria and lichen on trees for *Mimacraea fulvaria*
 Cyanobacteria on trees for *Pentila rondo*
 Detritus in ant nests? for *Euliphyra leucyana*
Blighia unijugata for *Aphnaeus orcas*
Paullinia pinnata for *Aphnaeus orcas*
Uncaria africana ssp. *lacus-victoriae* for *Aphnaeus orcas*
Allophylus melliodorus for *Axiocerses kiellandi*
Senna singueana for *Axiocerses punicea*
Senna petersiana for *Axiocerses punicea*
Ximenia americana for *Axiocerses tjoane*
Julbernardia globiflora for *Axiocerses tjoane*
Acacia zanzibarica for *Chloroselas azurea*
Smilax anceps for *Cigaritis apelles*
Ximenia americana for *Cigaritis ella*
Acacia zanzibarica for *Cigaritis ella*
Acacia zanzibarica for *Cigaritis nyassae*
Ximenia americana for *Cigaritis phanes*
Acacia zanzibarica for *Anthene amarah*
Parkia sp. for *Anthene larydas*
Acacia brevispica for *Anthene larydas*
Acacia pseudofistula for *Azanus moriqua*
Acacia pseudofistula for *Chilades kedonga*
Alchemilla cryptantha for *Harpencyreus marungensis*
Alchemilla ellenbeckii for *Harpencyreus marungensis*
Dissotis rotundifolia for *Thermoniphys colorata*

<i>Ziziphus abyssinica</i> for <i>Tuxentius calice</i>	<i>Bicyclus uzungwensis</i>
<i>Choristylis rhamnoides</i> for <i>Uranothauma confusa</i>	<i>Aphysoneura pigmentaria</i>
<i>Morella</i> sp. for <i>Uranothauma cuneatum</i>	<i>Neocoenyra fulleborni</i>
<i>Choristylis rhamnoides</i> for <i>Uranothauma lukwangule</i>	<i>Neocoenyra heckmanni</i>
<i>Choristylis rhamnoides</i> for <i>Uranothauma nguru</i>	<i>Neocoenyra petersi</i>
<i>Choristylis rhamnoides</i> for <i>Uranothauma usambarae</i>	<i>Neocoenyra pinheyi</i>
<i>Dolichos kilimandscharicus</i> for <i>Deudorix antalus</i>	<i>Physcaeneura jacksoni</i>
<i>Cryptosepalum exfoliatum</i> for <i>Deudorix antalus</i>	<i>Neita orbipalus</i>
<i>Acacia pseudofistula</i> for <i>Deudorix ecaudata</i>	<i>Charaxes nichetes</i>
<i>Galiniera saxifraga</i> for <i>Deudorix vansomereni</i>	<i>Charaxes aubyni</i>
<i>Olox</i> sp. for <i>Hemiolaus cobaltina</i>	<i>Charaxes chintechi</i>
<i>Tarrena pavettoides</i> for <i>Hypolycaena buxtoni</i>	<i>Charaxes chunguensis</i>
<i>Tricalysia pallens</i> for <i>Hypolycaena buxtoni</i>	<i>Charaxes congdoni</i>
<i>Vitex ferruginea</i> for <i>Hypolycaena liara</i>	<i>Charaxes dilutus</i>
<i>Talinum portulacifolium</i> for <i>Hypolycaena pachalica</i>	<i>Charaxes diversiforma</i>
<i>Scutia myrtina</i> for <i>Hypolycaena philippus</i>	<i>Charaxes fionae</i>
<i>Gymnosporia gracilipes</i> for <i>Hypolycaena philippus</i>	<i>Charaxes howarthi</i>
<i>Erianthemum taborense</i> for <i>Iolaus australis</i>	<i>Charaxes usambarae</i>
<i>Tapinanthus dependens</i> for <i>Iolaus bakeri</i>	<i>Charaxes mccleryi</i>
<i>Globimetula anguliflora</i> for <i>Iolaus coelestis</i>	<i>Charaxes smaragdalis</i>
<i>Agelanthus subulatus</i> for <i>Iolaus congdoni</i>	<i>Hypolimnias antevorta</i>
<i>Phragmanthera usuiensis</i> for <i>Iolaus congdoni</i>	<i>Hypolimnias dinarcha</i>
<i>Agelanthus heteromorphus</i> for <i>Iolaus diametra</i>	<i>Hypolimnias monteironis</i>
<i>Oncella ambigua</i> for <i>Iolaus diametra</i>	<i>Junonia artaxia</i>
<i>Oedina gacilis</i> for <i>Iolaus dubiosa</i>	<i>Junonia touhilimasa</i>
<i>Phragmanthera brieyi</i> for <i>Iolaus hemicyanus</i>	<i>Protogoniomorpha temora</i>
<i>Oncella schliebeniana</i> for <i>Iolaus mermis</i>	<i>Ariadne enotrea</i>
<i>Spragueanella rhamnifolia</i> for <i>Iolaus mermis</i>	<i>Sevenia amulia</i>
<i>Agelanthus igneus</i> for <i>Iolaus mermis</i>	<i>Sevenia morantii</i>
<i>Englerina kagehensis</i> for <i>Iolaus nasisis</i>	<i>Acraea insignis</i>
<i>Agelanthus atrocronatus</i> for <i>Iolaus nasisis</i>	<i>Acraea ranavalona</i>
<i>Agelanthus subulatus</i> for <i>Iolaus nolaensis</i>	<i>Acraea satis</i>
<i>Agelanthus atrocronatus</i> for <i>Iolaus sidus</i>	<i>Acraea quadricolor</i>
<i>Phragmanthera polycrypta</i> ssp. <i>subglabrifolia</i> for <i>Iolaus parasilanus</i>	<i>Acraea scalivittata</i>
<i>Phragmanthera polycrypta</i> ssp. <i>subglabrifolia</i> for <i>Iolaus poecilaon</i>	<i>Acraea bergeriana</i>
<i>Agelanthus scassellatii</i> for <i>Iolaus poultoni</i>	<i>Acraea omrora</i>
<i>Oncella ambigua</i> for <i>Iolaus poultoni</i>	<i>Acraea rhodesiana</i>
<i>Phragmanthera polycrypta</i> ssp. <i>subglabrifolia</i> for <i>Iolaus timon</i>	<i>Issoria baumanni</i>
<i>Backerella</i> sp. for <i>Iolaus argentarius</i>	<i>Lachnoptera anticlia</i>
<i>Backerella</i> sp. for <i>Iolaus mermeros</i>	<i>Telchinia acuta</i>
<i>Helixanthera kirkii</i> sp. for <i>Stugeta carpenter</i>	<i>Telchinia amacitiae</i>

List of final instar larval images published for the first time (206 taxa)

<i>Papilio aristophontes</i>	<i>Aterica rabena</i>
<i>Papilio desmondi</i>	<i>Bebearia orientis</i>
<i>Papilio fueleborni</i>	<i>Bebearia plistonax</i>
<i>Papilio jacksoni</i>	<i>Cymothoe amaniensis</i>
<i>Papilio mackinnoni</i>	<i>Cymothoe aurivillii</i>
<i>Papilio pelodurus</i>	<i>Cymothoe coranus</i>
<i>Papilio phorcas</i>	<i>Cymothoe cottrelli</i>
<i>Papilio thurau</i>	<i>Cymothoe herminia</i>
<i>Coeliades ramamatek</i>	<i>Cymothoe lurida</i>
<i>Apallaga alluaudi</i>	<i>Cymothoe magambae</i>
<i>Artitropa comus</i>	<i>Cymothoe melanjae</i>
<i>Platylesches panga</i>	<i>Cymothoe teita</i>
<i>Amauris crawshayi</i>	<i>Euphaedra harpalyce</i>
<i>Amauris niavius</i>	<i>Euphaedra paradoxa</i>
<i>Bicyclus campina</i>	<i>Euphaedra rex</i>
<i>Bicyclus simulacris</i>	<i>Neptis alta</i>
	<i>Neptis aurivillii</i>
	<i>Neptis goochii</i>
	<i>Neptis jordani</i>
	<i>Neptis kiriakoffi</i>

<i>Neptis larseni</i>	<i>Oboronia gussfeldti</i>
<i>Neptis nina</i>	<i>Thermoniphas colorata</i>
<i>Neptis ochracea</i>	<i>Tuxentius ertli</i>
<i>Neptis serena</i>	<i>Uranothauma confusa</i>
<i>Neptis swynnertoni</i>	<i>Uranothauma crawshayi</i>
<i>Pseudacraea apaturoides</i>	<i>Uranothauma cuneatum</i>
<i>Pseudacraea deludens</i>	<i>Uranothauma falckensteini</i>
<i>Pseudacraea dolomena</i>	<i>Uranothauma heritsia</i>
<i>Pseudacraea poggei</i>	<i>Uranothauma lukwangule</i>
<i>Pseudacraea semire</i>	<i>Uranothauma nguru</i>
<i>Pseudacraea simulator</i>	<i>Uranothauma usambarae</i>
<i>Pseudathyma jacksoni</i>	<i>Capys connexiva</i>
<i>Eurema senegalensis</i>	<i>Deudorix caliginosa</i>
<i>Appias sylvia</i>	<i>Deudorix ecaudata</i>
<i>Belenois margaritacea</i>	<i>Deudorix lorisona</i>
<i>Belenois rubrosignatus</i>	<i>Deudorix vansomereni</i>
<i>Colotis aurigineus</i>	<i>Hemiolaus cobaltina</i>
<i>Colotis danae</i>	<i>Hypolycaena buxtoni</i>
<i>Gideona lucasi</i>	<i>Hypolycaena liara</i>
<i>Mylothris asphodelus</i>	<i>Hypolycaena pachalica</i>
<i>Mylothris crawshayi</i>	<i>Iolaus lalos</i>
<i>Mylothris jacksoni</i>	<i>Iolaus silarus</i>
<i>Mylothris kilimensis</i>	<i>Iolaus apatosa</i>
<i>Mylothris leonora</i>	<i>Iolaus aurivillii</i>
<i>Mylothris sagala</i>	<i>Iolaus australis</i>
<i>Mylothris yulei</i>	<i>Iolaus bakeri</i>
<i>Afriodinia delicate</i>	<i>Iolaus bamptoni</i>
<i>Afriodinea neavei</i>	<i>Iolaus coelestis</i>
<i>Alaena aurantiaca</i>	<i>Iolaus congdoni</i>
<i>Alaena bicolora</i>	<i>Iolaus dubiosa</i>
<i>Alaena bjornstadi</i>	<i>Iolaus farquharsoni</i>
<i>Alaena dodomaensis</i>	<i>Iolaus hemicyanus</i>
<i>Alaena madibirensis</i>	<i>Iolaus jacksoni</i>
<i>Alaena nyassa</i>	<i>Iolaus mermis</i>
<i>Alaena picata</i>	<i>Iolaus neavei</i>
<i>Alaena reticulate</i>	<i>Iolaus nolaensis</i>
<i>Cerautola crippsi</i>	<i>Iolaus penningtoni</i>
<i>Cerautola miranda</i>	<i>Iolaus pseudopollux</i>
<i>Cephetola viridana</i>	<i>Iolaus sibella</i>
<i>Euthecta cooksoni</i>	<i>Iolaus stenogrammica</i>
<i>Mimacraea fulvaria</i>	<i>Iolaus tajoraca</i>
<i>Pentila rondo</i>	<i>Iolaus violacea</i>
<i>Aslauga orientalis</i>	<i>Iolaus yalae</i>
<i>Aphnaeus orcas</i>	<i>Iolaus gabunica</i>
<i>Axiocerses amanga</i>	<i>Iolaus iulus</i>
<i>Axiocerses coalescens</i>	<i>Iolaus jamesoni</i>
<i>Axiocerses kiellandi</i>	<i>Iolaus bolissus</i>
<i>Axiocerses punicea</i>	<i>Iolaus aequatorialis</i>
<i>Chloroselas azurea</i>	<i>Iolaus alcibiades</i>
<i>Cigaritis apelles</i>	<i>Iolaus dianae</i>
<i>Cigaritis nyassae</i>	<i>Iolaus maritimus</i>
<i>Lipaphnaeus loxura</i>	<i>Iolaus montana</i>
<i>Anthene bamptoni</i>	<i>Iolaus ndolae</i>
<i>Anthene benadirensis</i>	<i>Iolaus pamae</i>
<i>Anthene indefinita</i>	<i>Iolaus parasilanus</i>
<i>Anthene liodes</i>	<i>Iolaus stewarti</i>
<i>Anthene lunulata</i>	<i>Iolaus poultoni</i>
<i>Anthene montana</i>	<i>Iolaus timon</i>
<i>Anthene rubrimaculata</i>	<i>Iolaus argentarius</i>
<i>Anthene uzungwae</i>	<i>Iolaus mermeros</i>
<i>Chilades kedonga</i>	<i>Leptomyrina phidias</i>
<i>Euchrysops subpallida</i>	<i>Stugeta carpenteri</i>
<i>Harpencyreus marungensis</i>	<i>Stugeta mimetica</i>

DISCUSSION

As noted in the Introduction, much work remains to be done. There is no time to lose. Butterflies do not become extinct through over-collecting, but through environmental degradation and destruction. Unfortunately this continues apace. Where conservation efforts by Governments preserve habitats, this is welcome. However, over-zealous legislative measures can hamper genuine research efforts aimed at optimally conserving and managing habitats both in protected areas and on privately held land. Such research is funded and conducted by private individuals and NGOs.

ACKNOWLEDGEMENTS

We acknowledge, with thanks, the permits granted by the various authorities in the countries in which we worked, particularly the Tanzania Commission for Science and Technology with whom we worked for many years. The Director and Staff of the Herbarium, the Royal Botanic Gardens, Kew, London, provided identification services for which we are most grateful. In particular we thank Prof. R.M. Polhill, Dr K. Vollesen and Ms S. Bidgood for their help. Mr Q. Luke (Nairobi) also helped in this regard. We also thank the editors, Prof. M.C. Williams and Dr D.A. Edge, and the instigator and leader of the CRG, Mr H.S. Staude for their valuable inputs.

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