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A preliminary butterfly checklist (Lepidoptera: Papilionoidea) for Cyamudongo tropical forest fragment, Rwanda

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Abstract: This study provides a preliminary checklist of butterfly species occurring in the Cyamudongo tropical forest fragment, Rwanda. A survey of butterflies was conducted seasonally from October 2019 to August 2020. Butterflies were collected for identification using butterfly nets and fruit-baited traps along trails within Cyamudongo forest. One hundred and sixty-two butterfly species were recorded in the Cyamudongo forest, including thirteen species that are endemic to the Albertine Rift. This preliminary checklist serves as baseline data for conservationists including park managers and researchers concerned with butterfly conservation.

Key words: Forest fragmentation, butterfly, species checklist, Albertine Rift, Cyamudongo forest

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INTRODUCTION

Human activities, including agriculture, are the main drivers of natural habitat fragmentation including tropical rain forests (Lewis *et al.*, 2015), which are terrestrial biodiversity hotspots throughout the world (Ghazoul, 2010). With increasing human population demands, models predict an increase of tropical forest fragmentation with time (Taubert *et al.*, 2018) which negatively impacts resident biodiversity including the butterfly population. For example, large body size butterflies were found to be more vulnerable to extinction due to forest fragmentation (Shahabuddin & Ponte 2005), and predictive models have shown limitations in expansion range for some butterfly species within fragmented forests (Wilson *et al.*, 2009).

Some of the remaining Afrotropical forest fragments are under protection due to their cultural value or conservation significance (Bossart *et al.*, 2006). Cyamudongo forest is among the protected forest fragments due to its high significance for the conservation of biodiversity within the Albertine Rift (AR) region, a biodiversity hotspot. Historically, this fragment was connected to the Nyungwe main forest and was disconnected around 100 years ago due to agriculture and human settlements. Since the break up the fragment has become very isolated, managed as a forest reserve, and was gazetted as part of Nyungwe National Park since 2004 (Fischer & Killmann, 2008). Cyamudongo forest is located around 10 km from the Nyungwe main forest and

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consists of a dense forest with a few clearings. It hosts a rich biodiversity including species endemic to the Albertine Rift (Plumptre *et al.*, 2007). However, it appears from the literature that the few studies conducted in the Cyamudongo forest concentrated on plant diversity and taxonomy (Fischer *et al.*, 2003; Fischer & Killmann, 2008) or on primates such as endangered chimpanzees (Moore *et al.*, 2018), but little is known about invertebrates including butterflies.

Butterflies as a biodiversity component of forest ecosystems play an important role in plant pollination (Winfree et al., 2011; Barrios et al., 2016; Majewska et al., 2018; Sáfián, 2021) and have been largely used as bioindicators of environmental change and forest restoration and management (Kremen, 1992; Maleque et al., 2009; Nyafwono et al., 2014; Oloya et al., 2021). While some butterfly surveys have been conducted in protected areas within countries neighbouring Rwanda (e.g. Ducarme, 2018; Forbes, 2018), no butterfly survey has been conducted in the Cyamudongo forest fragment to provide baseline information on its butterfly population. This fragment is currently an island in an anthropogenic dominated landscape that might serve as a refugium for diverse species including butterflies from the surrounding matrix (Bossart et al., 2006), and thus contribute to the preservation of butterflies. Knowledge of the butterfly diversity in the Cyamudongo fragment would be an aid to effectively manage this fragment and ensure the protection of its biodiversity. This motivated a preliminary survey of butterfly species inhabiting the fragment. In addition, the authors wanted to make a collection for educational purposes and provide baseline data for future research on butterflies in the region.

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MATERIALS AND METHODS

Study site

This study was conducted in Cyamudongo forest (Fig. 1), a submontane forest fragment located in the south-western part of Rwanda (02°33.12' S, 28°59.49' E) with an area of c. 400 ha (Mvunabandi et al., 2015) and altitude between 1500-2140 m a.m.s.l. Cyamudongo tropical rainforest fragment is part of Nyungwe National Park since 2004 (Fischer & Killmann, 2008) and hosts a primate population of chimpanzees, Olive baboons, L' Hoest monkeys, Mona monkeys, and bird species, including the Great Blue Turaco among many others. The fragment also hosts a variety of plants including species endemic to the Albertine Rift region such as *Impatiens* spp., and some locally endemic plant species such as Polystachya bruechertiae and Gastrodia rwandensis are only found there (Fischer et al., 2003; Fischer & Killmann, 2008). Cyamudongo is an income tourist site for Rwanda, especially through its endangered charismatic chimpanzee population. From a nearby meteorology station located in the Nyakabuye sector, the annual rainfall was 1668 mm in 2019. Major threats to the Cyamudongo forest include firewood collection, fodder collection for cattle, and encroachment of agricultural lands.

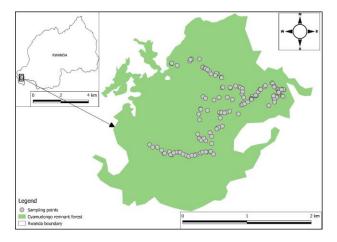


Figure 1 – Map of Cyamudongo forest fragment with butterfly sampling points.

Sampling methods

Sampling of butterflies in Cyamudongo was conducted from October to December 2019, January and March 2020, and August 2020. These periods correspond to the rainy season, short dry season, and dry season, respectively in this area. Butterflies were collected along tourist trails due to the hazardous terrain within the forest, using butterfly nets either in flight, resting, feeding on flowers or animal excrement, or mud puddling. The trails were walked for the purpose of a checklist survey (Royer et al., 1998) rather than a Pollard monitoring walk (Pollard, 1977) which is commonly used for quantitative monitoring of butterfly population change over time rather than conducting preliminary inventories. Three trails with a total length of 4.6 km on foot were accessible for butterfly sampling within the Cyamudongo forest. Depending on the trail's accessibility, butterflies were collected by two collectors within 5 m of width along the trail walk and much effort was put into collecting every butterfly encountered along the trail. In addition, 48

nymphalid species (Appendix) were recorded using traps baited with fermented bananas along the same trails.

Depending on weather conditions, sampling took place on sunny days from 9 am until 5 pm, the period when most butterflies were active. For each collected butterfly, GPS coordinates were recorded. Photographs were also taken where possible especially for butterflies observed puddling, drinking, or feeding on decaying materials such as carnivore dung. Each trail was walked two consecutive days per season making six days per season in total to cover the three trails within the forest. All collected specimens were stored in envelopes for later identification. Species identification of collected specimens used available literature about the region (Kielland, 1990; Carder and Tindimubona, 2002; Larsen, 2005a,b; Woodhall, 2005; Vande Weghe, 2010; Martins & Collins, 2016; Liseki & Vane-Wright, 2018; Williams, 2021) and websites such as Dominique Bernaud's "Le site des Acraea" (http://www.acraea.com/) and African Database Butterfly (https://www.abdb-(ABDB) africa.org/). The expertise of local experts in the region was also sought for species confirmation. A checklist of all butterfly species occurring in Cyamudongo tropical forest fragment is provided. The butterfly classification follows Williams (2015), Dhungel & Wahlberg (2018) and Espeland et al. (2018). Collected specimens will be maintained in the Centre of Excellence and Biodiversity at the University of Rwanda.

RESULTS

One hundred and sixty-two species, 6 families, and 20 subfamilies were recorded in the Cyamudongo forest fragment. Nymphalid species were dominant while only one riodinid species was recorded. A checklist including thirteen butterfly species endemic to the Albertine Rift (AR) is provided in the Appendix. The AR endemics are *Charaxes mafuga*, *Cymothoe collarti*, *Euphaedra margueriteae*, *E. barnsi*, *E. phosphor*, *Euriphene amicia excelsior*, *Belenois victoria*, *Mylothris polychroma*, *M. ruandana*, *Bicyclus matuta*, *B. neustetteri*, *B. persimilis* and *Gnophodes grogani* (Davenport, 2002)

DISCUSSION

This survey recorded more Nymphalidae species than Lycaenidae (the most species-rich African butterfly family) (Larsen, 2005b). This dominance of the Nymphalidae in the Cyamudongo forest is similar to the eastern forests of the Democratic Republic of Congo, a neighbouring country (Ducarme, 2018). However, the low number of recorded Lycaenidae and Hesperiidae might be due to their small size and some being canopy dwellers, which makes them difficult to observe (Vande Weghe, 2010) in the dense forest. As in another inventory conducted in a lowland forest in Tanzania (Mtui et al., 2019), the riodionids were least abundant in the Cyamudongo fragment. This group represents less than one per cent of all described African butterfly species, while the subfamilies Limenitidinae and Heliconiinae dominate among the Nymphalidae and this explains their dominance among the recorded subfamilies in Cyamudongo forest (see Appendix). This butterfly survey was the first in Cyamudongo and was conducted within a

short time. Thus, a long-term standardised monitoring programme should be established by park managers to add more species to the list. With respect to biodiversity conservation, butterfly inventory studies should be conducted in other protected forest fragments of Rwanda. Such inventories should also be conducted in fragments outside protected areas to assess whether they might accommodate species with urgent protection needs.

ACKNOWLEDGEMENTS

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FAMILY HESPERIIDAE Latreille, 1809				
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Pardaleodes tibullus torensis Bethune-Baker, 1906	Х	Х	Х	1
Tribe Hesperiini Latreille, 1809				
Genus Gorgyra Holland, 1896				
Gorgyra aretina (Hewitson, 1878)			Х	1
Genus Paracleros Berger, 1978				
Paracleros biguttulus (Mabille, 1889)	Х			1
Genus Platylesches Holland, 1896				
Platylesches galesa (Hewitson, 1877)		Х		1
Tribe Baorini Doherty, 1886				
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Eagris lucetia (Hewitson, 1875)		X	X	1
Eagris tigris kayonza Evans, 1956	X			1
Eagris subalbida aurivillii (Neustetter, 1927)		X		1
Genus <i>Tagiades</i> Hübner, 1819				
Tagiades flesus (Fabricius, 1781)	X			1
Genus Netrobalane Mabille, 1903				
Netrobalane canopus (Trimen, 1864)	X			1
Tribe Celaenorrhinini Swinhoe, 1912				
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Genus Tuxentius Larsen, 1982Image: Constant of the subfamily Polycana harding factors (Sharpe, 1892)XXXXX1Genus Uranothauma Butler, 1895XXXX1Uranothauma Butler, 1895XXX1Uranothauma heritsia intermedia (Tite, 1958)XXX1Genus Zizeeria Chapman, 1910XXX1Subtash for the subfamily Polyommatinae7438Subfamily Theclinae Swainson, 1830XXX1Tribe Hypolycaena haitia ugandae Sharpe, 1904XXX1Hypolycaena haitia ugandae Sharpe, 1904XXX1Hypolycaena laira liara Druce, 1890XXX1Genus Pilodeudorix Azurea azurea (Stempffer, 1964)XX11Genus Pilodeudorix azurea azurea (Stempffer, 1964)XX11Subtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815Image: Start and the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1833Image: Start and the subfamily Theclinae3224Fauryeta driveta agurea (Suffert, 1904)XXXX1Genus Pilodeudorix Azurea agurea (Stempffer, 1964)XImage: Start and the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815Image: Start and the agenstecheri (Suffert, 1904)XXX<	Genus Cacyreus Butler, 1897				
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Genus Uranothauma Butler, 1895Image: Margin Mar	Genus Tuxentius Larsen, 1982				
Uranothauma falkensteini (Dewitz, 1879)XXXX1Uranothauma heritsia intermedia (Tite, 1958)XXIIGenus Zizeeria Chapman, 1910XXXIZizeeria knysna knysna (Trimen, 1862)XXIISubtotals for the subfamily Polyommatinae7438Subtotals for the subfamily Polyommatinae7438Subtamily Theclinae Swainson, 1830IIIIGenus Hypolycaena Felder, 1862IIIIHypolycaena haitia ugandae Sharpe, 1904XXX1Hypolycaena liara Iara Druce, 1890XIIIGenus Deudorix kayonza (Stempffer, 1956)XIIIGenus Pilodeudorix kayonza (Stempffer, 1956)XIIISubtotals for the subfamily Theclinae322IFAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIIIGenus Luryela Boisduval, 1833IIIITribe Biblidini Boisduval, 1833IIIIGenus Ariadne pagenstecheri (Suffert, 1904)XXXIGenus Ariadne pagenstecheri (Suffert, 1904)XXXIGenus Ariadne pagenstecheri (Suffert, 1904)XXXIGenus Ariadne pagenstecheri (Suffert, 1904)XXXIGenus Ariad	Tuxentius margaritaceus (Sharpe, 1892)	Х	Х	Х	1
Uranothauma heritsia intermedia (Tite, 1958)XXIIGenus Zizeeria Anyana, 1910XXIIZizeeria knysna (Trimen, 1862)XXIISubtotals for the subfamily Polyommatinae7438Subtamily Theclinae Swainson, 1830IIIITribe Hypolycaena Felder, 1862IIIIGenus Hypolycaena Felder, 1862XXXXIHypolycaena fatila ugandae Sharpe, 1904XXXXITribe Deudorigini Doherty, 1886IIIIGenus Deudorix Hewitson, [1863]XXXIDeudorix Aayonza (Stempffer, 1956)XIIIGenus Pilodeudorix Druce, 1891XXIIPilodeudorix azurea azurea (Stempffer, 1964)XXIISubtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIII'*Ariadne pagenstecheri (Suffer, 1904)XXXXI*Eurytela hiarbas hiarbas (Drury, 1782)XXXXI'*Eurytela hiarbas hiarbas (Drury, 1782)XXXXITribe Epicalini Guence, 1865IIIIITribe Epicalini Guence, 1865IIIITorbe Epicalini Guence, 18	Genus Uranothauma Butler, 1895				
Genus Zizeeria Anyana, 1910Image: Margin Anyana (Trimen, 1862)XImage: Margin Anyana (Trimen, 1830)Image: Margin Anyana (Trimen, 1840)Image: M	Uranothauma falkensteini (Dewitz, 1879)	Х	Х		1
Zizeeria knysna knysna (Trimen, 1862)XXIISubtotals for the subfamily Polyommatinae7438Subfamily Theclinae Swainson, 1830IIIITribe Hypolycaenini Swinhoe, 1910IIIIGenus Hypolycaena Felder, 1862XXXX1Hypolycaena hatita ugandae Sharpe, 1904XXXX1Hypolycaena hatita ugandae Sharpe, 1904XXXX1Tribe Deudorigini Doherty, 1886IIIIGenus Deudorix kayonza (Stempffer, 1956)XIIIGenus Pilodeudorix Druce, 1891IIIISubtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIIIGenus Larytela Boisduval, 1833IIIISubfamily Biblidinae Boisduval, 1833IIIISubfamily Biblidinae Boisduval, 1833IIIISenus Larytela Boisduval, 1833IIIISenus Larytela Boisduval, 1833IIIISubfamily Biblidinae Boisduval, 1833IIIISubfamily Biblidinae Boisduval, 1833IIIISenus Larytela Boisduval, 1833IIIISenus Larytela hiarbas hiarbas (Drury, 1782)X </td <td>Uranothauma heritsia intermedia (Tite, 1958)</td> <td>Х</td> <td></td> <td></td> <td>1</td>	Uranothauma heritsia intermedia (Tite, 1958)	Х			1
Subtotals for the subfamily Polyommatinae7438Subfamily Theclinae Swainson, 1830IIIITribe Hypolycaenin Swinhoe, 1910IIIIGenus Hypolycaena Felder, 1862IIIIHypolycaena haita ugandae Sharpe, 1904XXXXIHypolycaena liara liara Druce, 1890XXXIITribe Deudorigini Doherty, 1886IIIIIGenus Deudorix Hewitson, [1863]IIIIIDeudorix kayonza (Stempffer, 1956)XIIIISubtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIIIGenus Lurytela disquere (Stiffer, 1904)XXXX1Subfamily Biblidinae Boisduval, 1833IIIIGenus Lurytela Boisduval, 1833IIIISubfamily Biblidinae Doisduval, 1833IIIISubfamily Biblidinae Boisduval, 1833IIIIGenus Lurytela Boisduval, 1833IIIISubfamily Biblidinae Disduval, 1833IIIISubfamily Biblidinae Disduval, 1833IIIISubfamily Biblidinae Disduval, 1833IIIISubfamily Biblidinae Disdu	Genus Zizeeria Chapman, 1910				
Subfamily Theclinae Swainson, 1830Image: Margin and	Zizeeria knysna knysna (Trimen, 1862)	Х			1
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Genus Hypolycaena Felder, 1862Image: Margin and the subscript of t	Subfamily Theclinae Swainson, 1830				
Hypolycaena hatita ugandae Sharpe, 1904XXXX1Hypolycaena liara liara Druce, 1890XXX1Tribe Deudorigini Doherty, 1886IXX1Genus Deudorix Hewitson, [1863]IIIIGenus Deudorix Agonza (Stempffer, 1956)XXIIGenus Pilodeudorix Druce, 1891XIIIGenus Pilodeudorix azurea azurea (Stempffer, 1964)XIIISubtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIIIGenus Ariadne Horsfield, [1829]XXXX1*Ariadne pagenstecheri (Suffert, 1904)XXXX1Genus Eurytela Boisduval, 1833IIII*Eurytela dryope angulata Aurivillius, [1899]XXXX1Senus Neptidopsis Aurivillius, [1899]XXXX1Tribe Epicalini Guenée, 1865IIIII	Tribe Hypolycaenini Swinhoe, 1910				
Hypolycaena liara liara Druce, 1890XXX1Tribe Deudorigini Doherty, 1886IIIIIGenus Deudorix Hewitson, [1863]IIIIIDeudorix Aayonza (Stempffer, 1956)XIIIIGenus Pilodeudorix Druce, 1891IIIIISubtotals for the subfamily TheclinaeXIIIISubtotals for the subfamily TheclinaeXIIIISubtotals for the subfamily TheclinaeIIIIIISubtotals for the subfamily TheclinaeIIIIIIISubfamily Biblidinae Boisduval, 1833IIIIIIIIISubfamily Biblidinae Boisduval, 1833II	Genus Hypolycaena Felder, 1862				
Tribe Deudorigini Doherty, 1886Image: Construct of the substant of th	Hypolycaena hatita ugandae Sharpe, 1904	Х	Х	Х	1
Genus Deudorix Hewitson, [1863]Image: Constraint of the section of the	Hypolycaena liara liara Druce, 1890		Х	Х	1
Deudorix kayonza (Stempffer, 1956)XI1Genus Pilodeudorix Druce, 1891IIIIPilodeudorix azurea azurea (Stempffer, 1964)XIIISubtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIIISubfamily Biblidinae Boisduval, 1833IIIIGenus Ariadne Horsfield, [1829]IIII*Ariadne pagenstecheri (Suffert, 1904)XXXII*Eurytela Boisduval, 1833IIIII*Eurytela hiarbas (Drury, 1782)XXXIIGenus Neptidopsis ophione nucleata Grünberg, 1911XXXXITribe Epicaliini Guenée, 1865IIIII	Tribe Deudorigini Doherty, 1886				
Genus Pilodeudorix Druce, 1891Image: March of the subfamily TheclinaeImage: March of the sub	Genus Deudorix Hewitson, [1863]				
Pilodeudorix azurea (Stempffer, 1964)XXISubtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIIISubfamily Biblidinae Boisduval, 1833IIIIGenus Ariadne Horsfield, [1829]IIIIGenus Eurytela Boisduval, 1833XXXIGenus Eurytela Boisduval, 1833IIIGenus Eurytela Boisduval, 1833IIIGenus Eurytela Boisduval, 1833IIIGenus Eurytela Boisduval, 1833IIIGenus Eurytela Aurivillius, [1899]XXXIGenus Neptidopsis Aurivillius, [1899]XXXITribe Epicalini Guenée, 1865III <td>Deudorix kayonza (Stempffer, 1956)</td> <td>Х</td> <td></td> <td></td> <td>1</td>	Deudorix kayonza (Stempffer, 1956)	Х			1
Subtotals for the subfamily Theclinae3224FAMILY NYMPHALIDAE Rafinesque, 1815IIIISubfamily Biblidinae Boisduval, 1833IIIITribe Biblidini Boisduval, 1833IIIIGenus Ariadne Horsfield, [1829]IIII*Ariadne pagenstecheri (Suffert, 1904)XXXIGenus Eurytela Boisduval, 1833IIII*Eurytela dryope angulata Aurivillius, [1899]XXXIGenus Neptidopsis Aurivillius, [1899]XXXINeptidopsis ophione nucleata Grünberg, 1911XXXITribe Epicaliini Guenée, 1865IIII	Genus Pilodeudorix Druce, 1891				
FAMILY NYMPHALIDAE Rafinesque, 1815Image: Constraint of the state of th	Pilodeudorix azurea azurea (Stempffer, 1964)	Х			1
Subfamily Biblidinae Boisduval, 1833Image: Constraint of the second	Subtotals for the subfamily Theclinae	3	2	2	4
Tribe Biblidini Boisduval, 1833Image: Constant of the state of the stat	FAMILY NYMPHALIDAE Rafinesque, 1815				
Genus Ariadne Horsfield, [1829]Image: Constant of the second	Subfamily Biblidinae Boisduval, 1833				
*Ariadne pagenstecheri (Suffert, 1904)XXXX1Genus Eurytela Boisduval, 1833IIII*Eurytela dryope angulata Aurivillius, [1899]XIII*Eurytela hiarbas hiarbas (Drury, 1782)XXXIGenus Neptidopsis Aurivillius, [1899]IIIINeptidopsis ophione nucleata Grünberg, 1911XXXITribe Epicaliini Guenée, 1865IIII	Tribe Biblidini Boisduval, 1833				
Genus Eurytela Boisduval, 1833Image: Constraint of the second	Genus Ariadne Horsfield, [1829]				
*Eurytela dryope angulata Aurivillius, [1899]XI*Eurytela hiarbas hiarbas (Drury, 1782)XXX1Genus Neptidopsis Aurivillius, [1899]IIINeptidopsis ophione nucleata Grünberg, 1911XXX1Tribe Epicaliini Guenée, 1865III	*Ariadne pagenstecheri (Suffert, 1904)	Х	Х	Х	1
*Eurytela hiarbas hiarbas (Drury, 1782)XXXX1Genus Neptidopsis Aurivillius, [1899]IIIINeptidopsis ophione nucleata Grünberg, 1911XXX1Tribe Epicaliini Guenée, 1865IIII	Genus Eurytela Boisduval, 1833				
Genus Neptidopsis Aurivillius, [1899]Image: Constraint of the second	*Eurytela dryope angulata Aurivillius, [1899]	Х			1
Neptidopsis ophione nucleata Grünberg, 1911XXX1Tribe Epicaliini Guenée, 1865III		Х	Х	Х	1
Neptidopsis ophione nucleata Grünberg, 1911XXX1Tribe Epicaliini Guenée, 1865III					
Tribe Epicaliini Guenée, 1865		Х	Х	Х	1
	Genus Sevenia Koçak, 1996				

*Sevenia boisduvali omissa (Rothschild, 1918)	X	Х	Х	1
*Sevenia garega (Karsch, 1892)	Х	Х		1
Subtotals for the subfamily Biblidinae	6	5	4	6
Subfamily Charaxinae Guenée, 1865				
Tribe Charaxini Guenée, 1865				
Genus Charaxes Ochsenheimer, 1816				
*Charaxes acuminatus kigezia van Someren, 1963		Х	Х	1
*Charaxes ameliae ameliae Doumet, 1861			Х	1
*Charaxes anticlea adusta Rothschild, 1900	Х	Х	Х	1
*Charaxes brutus alcyone Stoneham, 1943	X	Х		1
*Charaxes candiope (Godart, [1824])	X	Х		1
*Charaxes etesipe (Godart, [1824])	X			1
*Charaxes eudoxus lequeuxi Plantrou, 1982	X			1
*Charaxes mafuga van Someren, 1969	X	Х		1
*Charaxes mafugensis Jackson, 1956			Х	1
**Charaxes numenes aequatoralis van Someren, 1972	X		Х	1
*Charaxes pleione delvauxi Turlin, 1987	X	Х	Х	1
*Charaxes pollux pollux (Cramer, 1775)	X			1
*Charaxes tiridates tiridatinus Röber, 1936			Х	1
Subtotals for the subfamily Charaxinae	9	6	7	13
Subfamily Cyrestinae Guenée, 1865				
Genus Cyrestis Boisduval, 1832				
Cyrestis camillus camillus (Fabricius, 1781)	X	Х	Х	1
Subtotals for the subfamily Cyrestinae	1	1	1	1
Subfamily Danainae Boisduval, 1833				
Tribe Danaini Boisduval, 1833				
Genus Tirumala Moore, 1880				
Tirumala formosa mercedonia (Karsch, 1894)	X	Х	Х	1
Subtribe Amaurina Le Cerf, 1922				
Genus Amauris Hübner, 1816				
Amauris inferna grogani Sharpe, 1901	Х	Х		1
Amauris niavius niavius (Linnaeus, 1758)	X	Х		1
Subtotals for the subfamily Danainae	3	3	1	3
Subfamily Heliconiinae Swainson, 1822				
Tribe Acraeini Boisduval, 1833				
Subtribe Acraeina Boisduval, 1833				
Genus Acraea Fabricius, 1807				
Acraea aganice montana (Butler, 1888)	X	Х		1
Acraea asboloplintha Karsh, 1894	X	Х	Х	1
Acraea cerasa cerita Sharpe, 1906	Х			1
Acraea egina egina (Cramer, 1775)		Х	Х	1
Acraea eltringhami Joicey & Talbot, 1921		Х		1
Acraea kinduana Pierre, 1979			Х	1
Acraea kivuensis kivuensis (Joicy & Tabot, 1927)	X	Х		1
Acraea parageum parageum (Grose-Smith, 1900)	X	Х		1
Acraea quadricolor (Rogenhofer, 1891)			Х	1
Acraea quirina (Fabricius, 1781)	X			1
Subtribe Actinotina Henning, 1992				
Genus Telchinia Hübner, [1819]				
Telchinia alicia Sharpe, 1890		Х		1

Telchinia bonasia (Fabricius, 1775)	Х	Х	Х	1
Telchinia cinerea (Neave, 1904)	Х		Х	1
Telchinia disjuncta (Grose-Smith, 1898)	Х	Х	Х	1
Telchinia jodutta iodutta (Fabricius, 1793)		Х		1
Telchinia kalinzu (Carpenter, 1936)	Х			1
Telchinia lycoa (Godart, [1819])	Х	Х		1
Telchinia ntebiae ntebiae (Sharpe, 1897)	Х			1
Telchinia oreas oreas (Sharpe, 1891)	Х	Х		1
Telchinia orestia (Hewitson, 1874)	Х	Х	Х	1
Telchinia parrhasia servona (Godart, [1819])		Х		1
Telchinia penelope penelope (Staudinger, 1896)	Х	Х	Х	1
Telchinia pentapolis pentapolis (Ward, 1871)		Х		1
Telchinia pharsalus (Ward, 1871)	Х	Х	Х	1
Telchinia sotikensis sotikensis (Sharpe, 1892)	Х	Х		1
Telchinia toruna (Grose-Smith, 1900)	Х	Х	Х	1
Telchinia uvui uvui (Grose-Smith, 1890)		Х	Х	1
Tribe Vagrantini Pinratana & Eliot, 1996				
Genus Lachnoptera Doubleday, [1847]				
Lachnoptera anticlia (Hübner, [1819])	X			1
Genus Phalanta Horsfield, 1829				
Phalanta eurytis eurytis (Doubleday, [1847])	X	Х	Х	1
Subtotals for the subfamily Heliconiinae	20	21	13	29
Subfamily Limenitidinae Behr, 1864				
Tribe Cymothoini Dhungel & Wahlberg, 2018				
Genus Cymothoe Hübner, 1819				
Cymothoe collarti werneri Beaurain, 1984	X	Х	Х	1
*Cymothoe herminia johnstoni (Butler, 1902)	Х	Х	Х	1
Genus Harma Doubleday, 1848				
*Harma theobene superna (Fox, 1968)	Х	Х	Х	1
Tribe Adoliadini Doubleday, 1845				
Subtribe Bebearina Hemming, 1960				
Genus Evena Westwood, [1850]				
*Evena crithea (Drury, 1773)	Х	Х	Х	1
Genus Pseudathyma Staudinger, 1891				
Pseudathyma plutonica plutonica Butler, 1902	Х			1
Genus Euphaedra Hübner, 1819				
*Euphaedra barnsi Joicey & Talbot, 1922	Х			1
*Euphaedra harpalyce dowsetti Hecq, 1990		Х	Х	1
Euphaedra margueriteae Hecq, 1978		Х		1
1 U '17''''			Х	1
Euphaedra medon fraudata van Someren, 1935	Х	Х	11	
	X	X X	X	1
Euphaedra medon fraudata van Someren, 1935	X			1
Euphaedra medon fraudata van Someren, 1935 Euphaedra phosphor Joicey & Talbot, 1921	X X X			1
Euphaedra medon fraudata van Someren, 1935 Euphaedra phosphor Joicey & Talbot, 1921 Genus Euriphene Boisduval, 1847		Х	Х	
Euphaedra medon fraudata van Someren, 1935 Euphaedra phosphor Joicey & Talbot, 1921 Genus Euriphene Boisduval, 1847 *Euriphene butleri remota Hecq, 1994	X	X X	X X	1
Euphaedra medon fraudata van Someren, 1935 Euphaedra phosphor Joicey & Talbot, 1921 Genus Euriphene Boisduval, 1847 *Euriphene butleri remota Hecq, 1994 *Euriphene amicia excelsior (Rebel, 1911)	X	X X	X X	1
Euphaedra medon fraudata van Someren, 1935 Euphaedra phosphor Joicey & Talbot, 1921 Genus Euriphene Boisduval, 1847 *Euriphene butleri remota Hecq, 1994 *Euriphene amicia excelsior (Rebel, 1911) Genus Euryphura Staudinger, 1891	X X X	X X	X X	1 1
Euphaedra medon fraudata van Someren, 1935 Euphaedra phosphor Joicey & Talbot, 1921 Genus Euriphene Boisduval, 1847 *Euriphene butleri remota Hecq, 1994 *Euriphene amicia excelsior (Rebel, 1911) Genus Euryphura Staudinger, 1891 Euryphura chalcis chalcis (Felder & Felder, 1860)	X X X	X X	X X	1 1
Euphaedra medon fraudata van Someren, 1935 Euphaedra phosphor Joicey & Talbot, 1921 Genus Euriphene Boisduval, 1847 *Euriphene butleri remota Hecq, 1994 *Euriphene amicia excelsior (Rebel, 1911) Genus Euryphura Staudinger, 1891 Euryphura chalcis chalcis (Felder & Felder, 1860) Genus Aterica Boisduval, 1833	X X X X	X X X	X X X	1 1 1

Tribe Neptini Newman, 1870				
Genus Neptis Fabricius, 1807				
Neptis agouale Pierre-Baltus, 1978	Х	Х	Х	1
Neptis cf. quintilla Mabille, 1890	Х	Х	Х	1
Neptis nemetes nemetes Hewitson, [1868]	Х			1
Neptis nicoteles Hewitson, 1874	Х			1
Neptis occidentalis Rothschild, 1918	Х	Х	Х	1
Neptis ochracea ochreata Gaede, 1915		Х		1
Neptis saclava marpessa Hopffer, 1855	Х	Х		1
Tribe Pseudacraeini Dhungel & Wahlberg, 2018				
Genus Pseudacraea Westwood, 1850				
Pseudacraea dolomena kayonza Jackson, 1956			Х	1
*Pseudacraea eurytus eurytus (Linnaeus, 1758)	Х			1
*Pseudacraea lucretia protracta (Butler, 1874)	Х	Х	Х	1
Subtotals for the subfamily Limenitidinae	20	18	16	25
Subfamily Libytheinae Boisduval, 1833				
Genus Libythea Fabricius, 1807				
Libythea labdaca Westwood, [1851]		Х		1
Subtotals for the subfamily Libytheinae	0	1	0	1
Subfamily Nymphalinae Rafinesque, 1815				
Tribe Junoniini Reuter, 1896				
Genus Hypolimnas Hübner, 1819				
Hypolimnas anthedon anthedon (Doubleday, 1845)	X		Х	1
Genus Junonia Hübner, 1819				
*Junonia gregorii Butler, 1896	X	Х	Х	1
Junonia terea tereoides (Butler, 1901)	X			1
Genus Precis Hübner, 1819				
Precis rauana silvicola Schultze, 1916	X	Х	Х	1
Precis sinuata hecqui Berger, 1981	X			1
Genus Protogoniomorpha Wallengren, 1857				
*Protogoniomorpha parhassus (Drury, 1782)	X	Х	Х	1
Protogoniomorpha temora temora (Felder & Felder, [1867])	X	Х	Х	1
Genus Salamis Boisduval, 1833				
Salamis cacta cacta (Fabricius, 1793)		Х		1
Tribe incertae sedis				
Genus Kallimoides Shirôzu & Nakanishi, 1984				
*Kallimoides rumia rattrayi (Sharpe, 1904)	X	Х	Х	1
Genus Vanessula Dewitz, 1887				
*Vanessula milca latifasciata Joicey & Talbot, 1928	X	Х	Х	1
Tribe Nymphalini Swainson, 1827				
Genus Vanessa Fabricius, 1807				
*Vanessa dimorphica dimorphica (Howarth, 1966)	X			1
Genus Antanartia Rothschild & Jordan, 1903				
* Antanartia schaeneia dubia Howarth, 1966	X	Х		1
Subtotals for the subfamily Nymphalinae	11	8	7	12
Subfamily Satyrinae Boisduval, 1833				
Tribe Melanitini Reuter, 1896				
Genus <i>Gnophodes</i> Doubleday, 1849				
*Gnophodes grogani Sharpe, 1901	X	Х		1
Onophoues grogani Sharpe, 1901				

*Melanitis leda Westwood [1851]	Х			1
Tribe Satyrini Boisduval, 1833				
Subtribe Mycalesina Reuter, 1896				
Genus Bicyclus Kirby, 1871				
**Bicyclus cf. smithi (Aurivillius, [1899])	Х	Х	Х	1
*Bicyclus dentata (Sharpe, 1898)	X	Х		1
*Bicyclus jefferyi Fox, 1963	Х			1
*Bicyclus mandanes Hewitson, 1873		Х		1
*Bicyclus matuta matuta (Karsch, 1894)		Х		1
*Bicyclus mesogena ugandae (Riley, 1926)	Х			1
*Bicyclus neustetteri (Rebel, 1914)		Х		1
*Bicyclus persimilis (Joicey & Talbot, 1921)		Х	Х	1
**Bicyclus safitza safitza (Westwood, [1850])			Х	1
**Bicyclus sandace (Hewitson, [1877])	X			1
*Bicyclus sophrosyne sophrosyne (Plötz, 1880)	X	Х	Х	1
**Bicyclus vulgaris (Butler, 1868)	X			1
Subtotals for the subfamily Satyrinae	9	8	4	14
FAMILY PAPILIONIDAE Latreille, 1802	-	0	•	
Subfamily Papilioninae Latreille, 1802				
Tribe Leptocircini Kirby, 1896				
Genus <i>Graphium</i> Scopoli, 1777				
Graphium policenes policenes (Cramer, [1775])	X	Х	X	1
Tribe Papilionini Latreille, [1802]				-
Genus Papilio Linnaeus, 1758				
Papilio chrapkowskoides Storace, [1952]	X	Х		1
		Λ	X	1
Papilio dardanus dardanus Brown, 1776 Papilio echerioides joiceyi Gabriel, 1945		Х	Λ	1
			v	1
Papilio jacksoni ruandana Le Cerf, 1924	X	X	X	
Papilio mackinnoni mackinnoni Sharpe, 1891	X	X	v	1
Papilio nireus nireus Linnaeus, 1758	X	X	X	1
Papilio phorcas congoanus Rothschild, 1896	X	X	X	1
Subtotals for the family Papilionidae	8	7	5	8
FAMILY PIERIDAE Swainson, 1820				
Subfamily Coliadinae Swainson, 1821				
Genus <i>Terias</i> Swainson, [1821]				
Terias desjardinsii regularis Butler, 1876	X			1
Terias floricola leonis Butler, 1886	X			1
Terias hapale Mabille, 1882		X	X	1
Terias hecabe solifera Butler, 1875	X		Х	1
Terias senegalensis Boisduval, 1836	X	Х	Х	1
Subtotals for the subfamily Coliadinae	4	2	3	5
Subfamily Pierinae Swainson, 1820				
Tribe Pierini Swainson, 1820				
Subtribe Appiadina Kuzsenov, 1921				
Genus Appias Hübner, 1819				
Appias sabina sabina (Felder & Felder, [1865])	Х			1
Subtribe Aporiina Chapman, 1895				
Genus Belenois Hübner, 1819				
Polonois nofficial interdance (Isizar & Talket 1027)	Х		Х	1
Belenois raffrayi extendens (Joicey & Talbot, 1927)				

OVERALL TOTALS	123	99	82	162
Subtotals for the family Riodinidae	1	1	1	1
Afriodinia neavei neavei (Riley, 1932)	Х	Х	Х	1
Genus Afriodinia d'Abrera, 2009				
Subtribe Abisarina Stichel, 1928				
Tribe Abisarini Stichel, 1928				
Subfamily Nemeobiinae Bates, 1868				
FAMILY RIODINIDAE Grote, 1895				
Subtotals for the subfamily Pierinae	9	6	8	12
Leptosia nupta pseudonupta Bernardi, 1959	Х	Х	Х	1
Genus Leptosia Hübner, 1818				
Tribe Leptosiaini Braby, 2014				
Colotis elgonensis basilewskyi Berger, 1956	Х		Х	1
Genus Colotis Hübner, 1819				
Tribe Teracolini Reuter, 1896				
Nepheronia argia argia (Fabricius, 1775)	Х	Х	Х	1
Genus Nepheronia Butler, 1870				
Tribe Nepheroniini Braby, 2014				
Mylothris ruandana ruandana Strand, 1909	Х			1
Mylothris polychroma Berger, 1981		Х	Х	1
Mylothris nagichota rwandensis Warren-Gash, 2020		X	X	1
Mylothris kiwuensis kiwuensis Grünberg, 1910	X		X	1
Mylothris agathina richlora Suffert, 1904	X			1
Belenois zochalia agrippinides (Holland, 1896) Genus Mylothris Hübner, 1819		X		1