

# List of butterfly species found at the northern periphery of the Dja Faunal Reserve in Cameroon

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## Introduction

The aim of this study is to contribute to our knowledge of butterfly biodiversity in the vast and remote tropical forests of southern Cameroon. In tropical forests, the diversity of Lepidoptera is particularly high, and especially butterflies are readily identifiable and sufficiently diverse to be widely used as indicators of biodiversity. Butterflies are sensitive to changes in the habitat and are, therefore, important candidates for monitoring (Pearson 1994). They are sensitive to floral diversity, vegetation structure (Brehm et al. 2003), structural components of the habitat (Hill et al. 2001) and climate change (Parmesan et al. 1999).

## Material and Methods

Butterflies were collected in August-October 2004 in and around the villages Doumo Pierre (N 03 27.864' EO 13 03.094'), Mimpala (N 03 25.229', EO 13 02.165'), Malen V (N 03 27.864' EO 13 03.094'), and Palestine (N 03 31.593', EO 13 04.959') at the northern periphery of the Dja Faunal Reserve, Cameroon. Butterflies were collected with a net during data collection on agriculture (transition between slash and burn and sedentary farming) including cacao plantations inside the forest. In addition, three butterfly traps were employed, baited with fermenting fruits. These traps were however not very effective, with on average hardly one butterfly per trap per day. Numerous *Bicyclus* butterflies were also collected and they were deposited at Leiden University where the section of Evolutionary Biology will use them for a research on pheromones. Butterflies were mounted at the Zoological Museum Amsterdam (ZMA) and identified using D'Abrera (1980), Berger (1981) and Hecq (1997). Legs were collected and sent to Niklas Wahlberg to stimulate work on the phylogeny of butterflies.

The focus was on Nymphalids and species from other families were only occasionally collected. While some common species were collected in small numbers only, most singletons in this collection represent true singletons, only seen once.

## Results and Discussion

Including unidentified specimen, we counted 2 Arctiid moths, 2 species of Hesperiidae, 5 Lycaenidae, 102 Nymphalidae, 2 Pieridae and 1 member of the family Riodindae (table 1). Considering the low sampling effort, and the low abundance of most species, the number of butterfly species encountered suggests a high species richness.

Table 1. List of specimen collected at the northern periphery of the Dja Faunal reserve

family	location	date	genus	species	Author
Arctiidae	Doumo	11/10/2004	?	?12	
	Doumo	08/08/2004	?	?13	
Hesperidae	Doumo	24/08/2004	?	?10	
	Doumo	19/08/2004	?	?11	
Lycaenidae	Doumo	11/10/2004	?	?16	
	Doumo	11/10/2004	?	?17	
	Doumo	11/10/2004	?	?17	
Nymphalidae	Doumo	25/09/2004	<i>Aethiopana</i>	<i>honorius</i>	(Fabricius, 1793)
	Doumo	28/08/2004	<i>Aethiopana</i>	<i>honorius</i>	
	Doumo	24/08/2004	<i>Telipna</i>	<i>acraea</i>	(Doubleday, 1852)
	Doumo	24/08/2004	<i>Telipna</i>	<i>ruspinoides</i>	Schultze & Aurivillius, 1923
	Doumo	03/10/2004	<i>Acraea</i>	?18	
	Doumo	02/10/2004	<i>Acraea</i>	?18	
	Doumo	23/09/2004	<i>Acraea</i>	<i>alciope</i>	Hewitson, 1852
	Doumo	12/08/2004	<i>Acraea</i>	<i>cephesus</i>	(Linnaeus 1758)
	Doumo	20/10/2004	<i>Acraea</i>	<i>epiprotea</i>	(Butler 1874)
	Doumo	22/09/2004	<i>Acraea</i>	<i>eponina</i>	(Cramer, 1780)
	Doumo	02/10/2004	<i>Acraea</i>	<i>lycia</i>	(Fabricius, 1775)
	Doumo	28/08/2004	<i>Acraea</i>	<i>lycia</i>	
	Doumo	20/10/2004	<i>Acraea</i>	<i>umbra macaroides</i>	(Drury 1782)
	Doumo	02/10/2004	<i>Actinote</i>	<i>bonasia</i>	(Fabricius 1775)
	Doumo	19/10/2004	<i>Actinote</i>	<i>lycoa</i>	(Godart 1819)
	Doumo	20/10/2004	<i>Actinote</i>	<i>pelopeia</i>	(Staudinger 1896)
	Doumo	30/08/2004	<i>Actinote</i>	<i>peneleos</i>	(Staudinger 1896)
	Doumo	30/08/2004	<i>Actinote</i>	<i>penelope</i>	(Staudinger 1896)
	Doumo	08/08/2004	<i>Actinote</i>	<i>perenna</i>	(Doubleday 1847)
	Doumo	27/08/2004	<i>Amouris</i>	<i>niavius niavius</i>	(Linnaeus, 1758)
Doumo	07/10/2004	<i>Amouris</i>	<i>vashti</i>	Stoneham 1935	
Doumo	20/10/2004	<i>Antanartia</i>	<i>delius</i>	(Drury 1782)	
Doumo	18/08/2004	<i>Aterica</i>	<i>galene</i>	(Brown 1776)	
Doumo	03/09/2004	<i>Bebearia</i>	?3		
Doumo	17/08/2004	<i>Bebearia</i>	<i>absolon</i>	(Fabricius 1793)	
Doumo	12/08/2004	<i>Bebearia</i>	<i>absolon</i>		
Doumo	03/10/2004	<i>Bebearia</i>	<i>absolon</i>		
Doumo	03/10/2004	<i>Bebearia</i>	<i>absolon</i>		
Doumo	19/08/2004	<i>Bebearia</i>	<i>absolon</i>		
Doumo	30/08/2004	<i>Bebearia</i>	<i>carshena</i>	(Hewitson 1871)	
Doumo	06/09/2004	<i>Bebearia</i>	<i>flamina</i>	(Staudinger 1891)	
Palestine	31/08/2004	<i>Bebearia</i>	<i>flamina</i>		
Doumo	25/09/2004	<i>Bebearia</i>	<i>flamina</i>		
Doumo	25/09/2004	<i>Bebearia</i>	<i>mardania</i>	(Fabricius 1793)	
Doumo	11/10/2004	<i>Bebearia</i>	<i>mardania</i>		
Doumo	08/10/2004	<i>Bebearia</i>	<i>oxione</i>	(Hewitson 1866)	
Doumo	27/08/2004	<i>Bebearia</i>	<i>oxione</i>		
Doumo	05/09/2004	<i>Bebearia</i>	<i>tentyris</i>	(Hewitson, 1866)	
Doumo	11/10/2004	<i>Bebearia</i>	<i>tentyris</i>		
Doumo	25/08/2004	<i>Bebearia</i>	<i>zonara</i>	(Butler 1871)	
Doumo	05/09/2004	<i>Bebearia</i>	<i>zonara</i>		

List of specimen collected at the northern periphery of the Dja Faunal reserve  
(continued)

family	location	date	genus	species	Author
Nymphalidae	Doumo	04/10/2004	<i>Catuna</i>	<i>angustatum</i>	(Felder & Felder 1867)
	Doumo	20/10/2004	<i>Catuna</i>	<i>crithea</i>	(Drury 1773)
	Doumo	02/09/2004	<i>Catuna</i>	<i>crithea</i>	
	Doumo	20/10/2004	<i>Catuna</i>	<i>crithea</i>	
	Doumo	20/10/2004	<i>Catuna</i>	<i>crithea</i>	
	Doumo	01/09/2004	<i>Catuna</i>	<i>crithea</i>	
	Doumo	11/10/2004	<i>Catuna</i>	<i>crithea</i>	
	Doumo	03/10/2004	<i>Catuna</i>	<i>crithea</i>	
	Doumo	20/08/2004	<i>Catuna</i>	<i>niji</i>	Fox 1965
	Doumo	25/08/2004	<i>Catuna</i>	<i>oberthueri</i>	Karsch 1894
	Doumo	30/08/2004	<i>Catuna</i>	<i>oberthueri</i>	
	Doumo	25/09/2004	<i>Catuna</i>	<i>oberthueri</i>	
	Doumo	27/09/2004	<i>Charaxes</i>	<i>cynthia</i>	Butler 1865
	Doumo	22/08/2004	<i>Charaxes</i>	<i>cynthia</i>	
	Doumo	22/09/2004	<i>Charaxes</i>	<i>etesipe</i>	(Godart 1824)
	Doumo	22/09/2004	<i>Charaxes</i>	<i>etheocles sl</i>	
	Doumo	20/09/2004	<i>Charaxes</i>	<i>fulvescens</i>	(Aurivillius 1891)
	Doumo	24/08/2004	<i>Charaxes</i>	<i>protoclea</i>	Feisthabel 1850
	Doumo	19/08/2004	<i>Charaxes</i>	<i>protoclea</i>	
	Doumo	20/10/2004	<i>Charaxes</i>	<i>smaragdalis</i>	Butler 1866
	Doumo	08/10/2004	<i>Charaxes</i>	<i>zingha</i>	(Stoll 1780)
	Mimpala	24/08/2004	<i>Cymothoe</i>	?	
	Doumo	17/08/2004	<i>Cymothoe</i>	<i>beckeri</i>	(Herrich-Schäffer 1858)
	Doumo	29/08/2004	<i>Cymothoe</i>	<i>beckeri</i>	
	Doumo	25/08/2004	<i>Cymothoe</i>	<i>beckeri</i>	
	Doumo	30/08/2004	<i>Cymothoe</i>	<i>beckeri</i>	
	Doumo	18/09/2004	<i>Cymothoe</i>	<i>caenis</i>	(Drury 1773)
	Doumo	18/09/2004	<i>Cymothoe</i>	<i>caenis</i>	
	Doumo	25/09/2004	<i>Cymothoe</i>	<i>caenis</i>	
	Doumo	25/08/2004	<i>Cymothoe</i>	<i>caenis</i>	
	Doumo	08/08/2004	<i>Cymothoe</i>	<i>capella</i>	(Ward 1871)
	Doumo	20/08/2004	<i>Cymothoe</i>	<i>caprina</i>	(Drury 1773)
	Doumo	01/09/2004	<i>Cymothoe</i>	<i>distincta</i>	Overlaet 1952
	Doumo	01/09/2004	<i>Cymothoe</i>	<i>distincta</i>	
	Doumo	12/08/2004	<i>Cymothoe</i>	<i>distincta</i>	
	Doumo	30/08/2004	<i>Cymothoe</i>	<i>distincta</i>	
	Doumo	05/08/2004	<i>Cymothoe</i>	<i>distincta</i>	
	Doumo	06/08/2004	<i>Cymothoe</i>	<i>distincta</i>	
	Doumo	08/08/2004	<i>Cymothoe</i>	<i>distincta</i>	
	Doumo	26/08/2004	<i>Cymothoe</i>	<i>excelsa</i>	Neustetter 1912
	Doumo	30/08/2004	<i>Cymothoe</i>	<i>fumana</i>	(Westwood 1850)
Doumo	10/08/2004	<i>Cymothoe</i>	<i>fumana</i>		
Doumo	01/09/2004	<i>Cymothoe</i>	<i>hesiodotus</i>	Staudinger, 1889	
Doumo	01/09/2004	<i>Cymothoe</i>	<i>hesiodotus</i>		
Doumo	21/08/2004	<i>Cymothoe</i>	<i>jodutta ciceronis</i>	(Westwood 1850)	
Doumo	29/08/2004	<i>Cymothoe</i>	<i>jodutta ciceronis</i>		
Doumo	03/10/2004	<i>Cymothoe</i>	<i>meridionalis</i>	Overlaet 1944	
Doumo	08/08/2004	<i>Cymothoe</i>	<i>oemilius</i>	Doumet, 1859	
Doumo	26/08/2004	<i>Cymothoe</i>	<i>reginaeelisabethae</i>	Holland 1920	
Doumo	26/08/2004	<i>Cymothoe</i>	<i>sangaris</i>	(Godart 1824)	
Doumo	26/08/2004	<i>Cymothoe</i>	<i>sangaris</i>		
Doumo	08/08/2004	<i>Cymothoe</i>	<i>zenkeri</i>	Richelmann 1913	

List of specimen collected at the northern periphery of the Dja Faunal reserve  
(continued)

<b>family</b>	<b>location</b>	<b>date</b>	<b>genus</b>	<b>species</b>	<b>Author</b>
Nymphalidae	Doumo	24/08/2004	<i>Cynandra</i>	<i>opis</i>	(Drury 1773)
	Doumo	24/08/2004	<i>Cynandra</i>	<i>opis</i>	
	Doumo	19/09/2004	<i>Cynandra</i>	<i>opis</i>	
	Doumo	30/08/2004	<i>Cynandra</i>	<i>opis</i>	
	Doumo	22/08/2004	<i>Cynandra</i>	<i>opis</i>	
	Doumo	15/08/2004	<i>Cynandra</i>	<i>opis</i>	
	Doumo	20/10/2004	<i>Cyrestus</i>	<i>camillus</i>	(Fabricius, 1781)
	Doumo	05/09/2004	<i>Euphaedra</i>	?	
	Doumo	27/08/2004	<i>Euphaedra</i>	?2	
	Doumo	11/10/2004	<i>Euphaedra</i>	<i>adonina</i>	(Hewitson 1865)
	Doumo	18/08/2004	<i>Euphaedra</i>	<i>harpalyce</i>	(Doubleday 1845)
	Doumo	15/09/2004	<i>Euphaedra</i>	<i>harpalyce</i>	
	Doumo	06/10/2004	<i>Euphaedra</i>	<i>hebes</i>	Hecq 1980
	Doumo	30/08/2004	<i>Euphaedra</i>	<i>hebes</i>	
	Doumo	15/08/2004	<i>Euphaedra</i>	<i>hewitsoni</i>	Hecq 1974
	Doumo	25/09/2004	<i>Euphaedra</i>	<i>hewitsoni</i>	
	Doumo	20/09/2004	<i>Euphaedra</i>	<i>hewitsoni</i>	
	Doumo	15/08/2004	<i>Euphaedra</i>	<i>hollandi</i>	Hecq 1974
	Palestine	31/08/2004	<i>Euphaedra</i>	<i>hybrida</i>	Hecq 1987
	Doumo	22/09/2004	<i>Euphaedra</i>	<i>hybrida</i>	
	Doumo	22/09/2004	<i>Euphaedra</i>	<i>hybrida</i>	
	Doumo	29/09/2004	<i>Euphaedra</i>	<i>medon</i>	(Linnaeus 1763)
	Doumo	06/10/2004	<i>Euphaedra</i>	<i>permixtum</i>	(Butler 1873)
	Doumo	06/10/2004	<i>Euphaedra</i>	<i>permixtum</i>	
	Doumo	26/08/2004	<i>Euphaedra</i>	<i>permixtum</i>	
	Doumo	25/09/2004	<i>Euphaedra</i>	<i>permixtum/themis</i>	(Hubner 1807)
	Doumo	29/09/2004	<i>Euphaedra</i>	<i>permixtum/themis</i>	
	Doumo	29/09/2004	<i>Euphaedra</i>	<i>preussi</i>	Staudinger 1890
	Doumo	20/10/2004	<i>Euphaedra</i>	<i>preussi</i>	
	Doumo	30/08/2004	<i>Euphaedra</i>	<i>ravola</i>	(Hewitson 1866)
	Doumo	22/09/2004	<i>Euphaedra</i>	<i>ruspina</i>	(Hewitson 1865)
	Doumo	02/09/2004	<i>Euriphene</i>	?4	
	Doumo	02/09/2004	<i>Euriphene</i>	?5	
	Doumo	03/10/2004	<i>Euriphene</i>	?6	
	Doumo	25/09/2004	<i>Euriphene</i>	?7	
	Doumo	13/08/2004	<i>Euriphene</i>	<i>barombina</i>	(Aurivillius 1894)
	Doumo	02/09/2004	<i>Euriphene</i>	<i>goniogramma</i>	(Karsch 1894)
	Doumo	13/08/2004	<i>Euriphene</i>	<i>tadema</i>	(Hewitson 1866)
	Doumo	02/09/2004	<i>Euriphene</i>	<i>tadema</i>	
	Palestine	17/08/2004	<i>Euriphura</i>	<i>chalcis</i>	(Felder & Felder 1860)
	Doumo	19/08/2004	<i>Euxanthe</i>	<i>trajanus</i>	(Ward 1871)
	Doumo	30/08/2004	<i>Gnophodes</i>	<i>chelys</i>	(Fabricius 1793)
	Doumo	20/10/2004	<i>Gnophodes</i>	<i>chelys</i>	
	Doumo	24/08/2004	<i>Gnophodes</i>	<i>chelys</i>	
	Doumo	24/08/2004	<i>Gnophodes</i>	<i>chelys</i>	
Doumo	08/08/2004	<i>Harma</i>	<i>theobene</i>	Doubleday 1848	
Doumo	08/08/2004	<i>Harma</i>	<i>theobene</i>		

List of specimen collected at the northern periphery of the Dja Faunal reserve  
(continued)

family	location	date	genus	species	Author
Nymphalidae	Doumo	21/09/2004	<i>Hypolimnias</i>	<i>antheson</i>	(Doubleday 1845)
	Doumo	26/08/2004	<i>Hypolimnias</i>	<i>antheson</i>	
	Doumo	08/10/2004	<i>Hypolimnias</i>	<i>antheson</i>	
	Doumo	13/08/2004	<i>Hypolimnias</i>	<i>antheson</i>	
	Doumo	13/08/2004	<i>Hypolimnias</i>	<i>antheson</i>	
	Malen V	13/08/2004	<i>Hypolimnias</i>	<i>dinarcha</i>	(Doubleday 1845)
	Malen V	31/08/2004	<i>Hypolimnias</i>	<i>monteironis</i>	(Druce 1874)
	Doumo	28/08/2004	<i>Hypolimnias</i>	<i>monteironis</i>	
	Doumo	03/08/2004	<i>Hypolimnias</i>	<i>salmacis</i>	(Drury 1773)
	Doumo	03/08/2004	<i>Hypolimnias</i>	<i>salmacis</i>	
	Doumo	11/10/2004	<i>Junonia</i>	<i>(stygia) gregori</i>	Butler 1896
	Doumo	30/08/2004	<i>Junonia</i>	<i>(stygia) gregori</i>	
	Doumo	23/08/2004	<i>Junonia</i>	<i>(stygia) gregori</i>	
	Doumo	30/08/2004	<i>Junonia</i>	<i>sophia</i>	(Drury 1773)
	Doumo	04/10/2004	<i>Junonia</i>	<i>tereia</i>	(Drury 1773)
	Doumo	23/08/2004	<i>Kallimoides</i>	<i>rumia</i>	(Westwood 1850)
	Doumo	27/08/2004	<i>Kallimoides</i>	<i>rumia</i>	
	Doumo	18/10/2004	<i>Libythea</i>	?9	
	Doumo	29/08/2004	<i>Melanitis</i>	<i>ansorgei</i>	Rothschild 1904
	Doumo	05/09/2004	<i>Melanitis</i>	<i>ansorgei</i>	
	Malen V	25/08/2004	<i>Neptis</i>	<i>biafra</i>	Ward 1871
	Doumo	20/08/2004	<i>Neptis</i>	<i>melicerta</i>	(Drury 1773)
	Doumo	25/09/2004	<i>Neptis</i>	<i>melicerta</i>	
	Doumo	19/08/2004	<i>Neptis</i>	<i>melicerta</i>	
	Doumo	27/08/2004	<i>Neptis</i>	<i>melicerta</i>	
	Doumo	17/08/2004	<i>Neptis</i>	<i>melicerta</i>	
	Doumo	28/08/2004	<i>Neptis</i>	<i>nemetes</i>	Hewitson 1868
	Doumo	24/08/2004	<i>Neptis</i>	<i>nemetes</i>	
	Doumo	20/10/2004	<i>Neptis</i>	<i>nemetes</i>	
	Doumo	25/08/2004	<i>Neptis</i>	<i>nicomedes</i>	Hewitson 1874
	Doumo	02/09/2004	<i>Neptis</i>	<i>nysiades</i>	Hewitson 1868
	Doumo	27/08/2004	<i>Neptis</i>	<i>nysiades</i>	
	Doumo	20/09/2004	<i>Palla</i>	<i>ussheri</i>	(Butler 1870)
	Doumo	20/09/2004	<i>Palla</i>	<i>ussheri</i>	
	Doumo	20/10/2004	<i>Protoqoniomorph</i>	<i>parhassus</i>	(Drury 1782)
Doumo	12/08/2004	<i>Pseudacraea</i>	<i>lucretia</i>	(Cramer 1775)	
Doumo	28/08/2004	<i>Pseudoneptis</i>	<i>bugandensis</i>	Stoneham 1935	
Doumo	08/10/2004	<i>Salamis</i>	<i>cacta</i>	(Drury 1773)	
Palestine	31/08/2004	<i>Sevenia</i>	<i>amulia</i>	(Cramer, 1777)	
Doumo	26/08/2004	<i>Sevenia</i>	<i>trimeni</i>	(Aurivillius, 1898)	
Doumo	30/08/2004	<i>Vanessula</i>	<i>milca</i>	(Hewitson 1873)	
Doumo	08/10/2004	<i>Ypthima</i>	<i>doleta</i>	Kirby 1880	
Papilionodae	Doumo	23/08/2004	<i>Graphium</i>	<i>antheus</i>	Cramer, 1779
	Doumo	07/10/2004	<i>Graphium</i>	<i>leonidas</i>	(Fabricius, 1793)
	Doumo	06/09/2004	<i>Graphium</i>	<i>leonidas</i>	
	Doumo	27/08/2004	<i>Graphium</i>	<i>policenus</i>	
	Doumo	20/10/2004	<i>Graphium</i>	<i>tynderaeus</i>	(Fabricius 1793)
	Malen V	18/08/2004	<i>Papilio</i>	<i>hesperus</i>	Westwood, 1845
	Doumo	24/08/2004	<i>Papilio</i>	<i>hesperus</i>	
	Doumo	14/08/2004	<i>Papilio</i>	<i>lormieri</i>	Distant 1874
	Doumo	17/08/2004	<i>Papilio</i>	<i>nireus</i>	(Linnaeus, 1758)
	Doumo	20/10/2004	<i>Papilio</i>	<i>plagiatus</i>	Aurivillius, 1898
Pieridae	Doumo	30/08/2004	?	?14	
	Doumo	30/08/2004	?	?15	
Riodinidae	Doumo	27/08/2004	<i>Abisara</i>	<i>rutherfordi</i>	(Druce, 1882)

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