

4.

Odonata (Dragonflies) of Kartabo, Bartica District, British Guiana.¹

PHILIP P. CALVERT.

Cheney, Pennsylvania

*Emeritus Professor of Zoology, University of Pennsylvania;
Research Fellow, Academy of Natural Sciences of Philadelphia.*

(Plates I & II).

CONTENTS.

	Page		Page
Introduction	47	<i>Uracis fastigiata</i> (Burmeister)	78
Distribution of the Kartabo Odonata	48	<i>Micrathyria spinifera</i> Calvert	78
Odonata from Kartabo	50	<i>Micrathyria eximia</i> Kirby	78
<i>Hetaerina dominula</i> Hagen	50	<i>Erythrodiplax Brauer</i>	78
<i>Hetaerina moribunda</i> Hagen	51	<i>Erythrodiplax castanea</i> (Burmeister)	79
<i>Hetaerina</i> species	52	<i>Erythrodiplax angustipennis</i> Borror	79
<i>Megaloptrepus caerulatus caerulatus</i> (Drury)	52	<i>Erythrodiplax unimaculata</i> (De Geer)	79
<i>Microstigma maculatum</i> Hagen	52	<i>Erythrodiplax laurentia</i> Borror	80
Refractive Bodies in Certain Wing Cells of		<i>Erythrodiplax famula famula</i> (Erichson)	80
<i>Microstigma maculatum</i>	53	<i>Erythrodiplax latimaculata</i> Ris	80
<i>Mecistogaster Rambur</i>	54	<i>Erythrodiplax umbrata</i> (Linnaeus)	80
<i>Mecistogaster linearis</i> (Fabricius)	55	<i>Erythrodiplax maculosa</i> (Hagen)	81
The Seasonal Distribution of <i>Mecistogaster linearis</i>		<i>Erythrodiplax basalis basalis</i> (Kirby)	81
Throughout Its Range	56	<i>Erythrodiplax connota fusca</i> (Rambur)	82
<i>Mecistogaster lucretia</i> (Drury)	56	<i>Erythrodiplax melanorubra</i> Borror	82
The Seasonal Distribution of <i>Mecistogaster lucretia</i>		<i>Erythemis peruviana</i> (Rambur)	82
Throughout Its Range	57	<i>Erythemis attala</i> (Selys)	82
<i>Megapodagrion megalopus</i> (Selys)	58	<i>Lepthemis vesiculosa</i> (Fabricius)	82
<i>Argia</i> by Leonard K. Glynn	58	<i>Rhodopygia cardinalis</i> (Erichson)	82
<i>Argia</i> sp. A, group of <i>oculata</i> Hagen	58	<i>Dythemis multipunctata</i> Kirby	82
<i>Argia</i> sp. B	58	<i>Macrothemis punicea</i> Ris	82
<i>Argia</i> sp. C	58	<i>Macrothemis pumila</i> Karsch	83
<i>Argia</i> sp. D	58	<i>Tholymis citrina</i> Hagen	83
<i>Argia insipida</i> Hagen	58	<i>Pantala flavescens</i> (Fabricius)	83
<i>Leptagrion beebeianum</i> n. sp.	58	<i>Tramea cophusa</i> Hagen	83
<i>Leptagrion</i> sp.	59	<i>Idiataphe longipes</i> (Hagen)	84
<i>Aeolagrion demerarium</i> Williamson	59	Addendum: <i>Dictyeria cothurnata</i> (Foerster) new combination	84
<i>Acanthagrion adustum</i> Williamson	60	Explanation of the Plates	86
<i>Metaleptobasis tetragena</i> n. sp.	60		
<i>Ceratura caprea</i> (Hagen)	61		
<i>Neoneura joana</i> Williamson	61		
<i>Protonotura calverti</i> Williamson	61		
<i>Zonophora bateai</i> Selys	61		
<i>Propomphus dorsopellatus</i> Byers	62		
<i>Gomphoides fuliginosa</i> Hagen	62		
<i>Phyllocycla</i> new generic name	62		
<i>Phyllocycla signata</i> (Hagen) (new combination)	62		
<i>Phyllocycla bartica</i> n. sp.	63		
<i>Aphylla alia</i> n. sp.	66		
<i>Archaeogomphus hamatus</i> (Williamson)	67		
<i>Stenophlebia reticulata reticulata</i> (Burmeister)	68		
<i>Triacanthagyna septima</i> (Selys)	69		
<i>Triacanthagyna ditleri</i> Williamson	69		
<i>Gynacantha tenuis</i> Martin	70		
<i>Gynacantha auricularis</i> Martin	70		
<i>Gynacantha nervosa</i> Rambur	70		
<i>Gynacantha gracilis</i> (Burmeister)	70		
<i>Gynacantha membranalis</i> Karsch	70		
<i>Coryphaeschna vires</i> (Rambur)	71		
<i>Aeschnosoma peruviana</i> Cowley	71		
<i>Libellula herculea</i> Karsch	72		
<i>Orthemis ferruginea</i> (Fabricius)	72		
<i>Orthemis aequalibris</i> Calvert	72		
<i>Orthemis billegi</i> Calvert	72		
<i>Orthemis cultriformis</i> Calvert	72		
<i>Diastatops pulata</i> (Burmeister)	72		
<i>Diastatops obscura</i> (Fabricius)	72		
<i>Diastatops dimidiata</i> (Linnaeus)	73		
<i>Zenithoptera fasciata</i> (Linnaeus)	73		
The Types of the Linnaean Species of <i>Zenithoptera</i>	74		
<i>Perithemis thais</i> Kirby	75		
<i>Pygia amazonica</i> Kirby	76		
<i>Oligoclada pachystigma</i> Karsch	76		
<i>Oligoclada raineyi</i> Ris	77		
<i>Uracis imbuta</i> (Burmeister)	78		
<i>Uracis opiviposita</i> Calvert	78		
<i>Uracis infumata</i> Rambur	78		

¹ Contribution No. 797, Department of Tropical Research, New York Zoological Society.

[This contribution is a result of various expeditions of the Department of Tropical Research of the New York Zoological Society, all made under the direction of Dr. William Beebe. The Guiana trips were made during the years 1909, 1916, 1917, 1919, 1920, 1922, 1924 and 1926. The Kartabo collections and observations were carried on in one-quarter of a square mile of jungle. For detailed ecological and meteorological notes see *Zoologica*, Vol. II, No. 7, 1919, pp. 205-227.]

INTRODUCTION.

Dr. William Beebe has asked me to report on the Odonata taken at the New York Zoological Society's Tropical Research Laboratory at Kartabo, British Guiana. The collection contains many interesting forms which, in a number of instances, have prompted some excursions into their ecological relations. With Dr. Beebe's consent, I have included smaller lots, hitherto unreported, collected by Dr. Charles Hodge, IV, at Kartabo in July-August, 1926; by Mr. George B. Fox along the Essequibo River; and by the late Dr. William Schaus in French Guiana. The first two lots are in the Academy of Natural Sciences of Philadelphia, the third was sent to me for study some years ago, by the United States National Museum. The