AN ACCOUNT OF BRITISH FLIES (DIPTERA)

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649123506

An account of British flies (Diptera) by Fred. V. Theobald

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

FRED. V. THEOBALD

AN ACCOUNT OF BRITISH FLIES (DIPTERA)

Trieste

AN ACCOUNT

OF

W. H. LANO

BRITISH FLIES

(DIPTERA).

BY 3 FRED. V. THEOBALD, B.A., F.E.S.

CAMBRIDGE UNIVERSITY EXTENSION LECTURES IN INJURIOUS INSECTS, ETC.

VOL. 1. Coll pr 6

LONDON: ELLIOT STOCK, 62, PATERNOSTER ROW, E.C. 1892.

LIBRARY UNIVERSITY OF CALIFORNIA

PREFACE.

THE reason I undertook to publish this book was the almost total absence of any treatise in English upon this much-neglected order of insects. I have dealt with most of the species indigenous to the British Isles, and with many points of general interest relating to the order of "Flies," also with the characteristics of families and genera, and, where possible, with the life histories of the various groups, especially of those that are injurious to our crops and farm stock.

The only English work published on this subject is Walker's "Insecta Britannica Diptera," which is now out of print. It was written more than fifty years ago, and naturally contains much that is quite out of date and inconsistent with the knowledge of the present day.

It is hoped that this account may in some way fill up this gap in entomological literature. The author trusts he will be pardoned for the many discrepancies that may have crept in, owing in many instances to his imperfect knowledge of the languages in which most of the literature on this subject is written. For those who wish to go more fully into the subject, the larger works of Meigen ("Zweiflugelige Insecten"), Macquart ("Diptères exotique"), and Schiner ("Fauna Austriaca"), together with the numerous papers, articles, and pamphlets enumerated at the end of each family, may be consulted.

In a small work of this kind it is impossible to give a detailed description of all the species recorded as British. I have therefore chosen those about which there seems no doubt, and have omitted many mentioned by Walker as being doubtful. The

PREFACE.

families treated of in this volume are the most difficult and least understood of any, and are in a most unsatisfactory state with regard to their systematic arrangement and identification. It is hoped that this account may spur younger workers on to establish new and important facts, so that inaccuracies may be corrected which naturally will be found in it, and new discoveries made.

I have to express my thanks to numerous entomologists for kindly help, and for lending specimens to be figured, especially to Miss Ormerod for the loan of blocks from her "Manual of Injurious Insects."

FRED. V. THEOBALD.

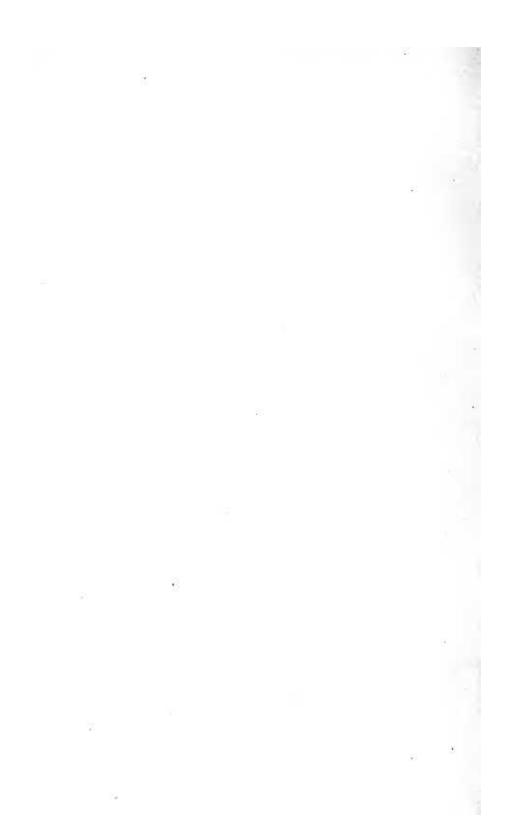
CAMBRIDGE, 1892.

iv

CONTENTS.

-

PREFACE		2			•	4	-	ini
A SHORT ACC	OUNT O	FTHE	MORE IN	PORTAL	T CHAR	ACTERI	STICS	
OF THE	FAMILIE	S OF DI	PTERA	1999-1999-1999 (7)	2000-000-000-0 2011-0		un en	xi
		0	CHAPT	ER L				
FOSSIL DIPTE	RA	- 10 10	•	-	7.63	-	-	1
		ſ	HAPT	ER II.				
CLASSIFICATIO			8대 상거, 단옷					
OF THE A	NCIENT	CAND M	ODERN	CLASSIF	ICATION	OF INS	ECTA	7
		С	НАРТІ	ER III	8			
THE APHANIP	TERA, (OR FLEA	s -	5		2	•	21
		С	HAPTI	ER IV.				
THE CECIDOM	VIDÆ, G	OR GALI	. GNATS	ei -	183	-	\sim	38
		c	HAPT	ER V.				
THE MYCETOP	HILIDÆ	, OR FU	NGUS G	NATS	×.	*	8	92
		С	HAPTI	ER VI.				
THE BIBIONID	Æ		.÷	÷	5 7	÷2	52	152
THE SIMULIDA	E	*	э.,	*	100			165
		CI	HAPTE	R VII.	R.			
THE CHIRONO	MIDÆ, (OR MID	GES	20	3¥	-23	1	169
INDEX -		- -	initi C	- 23	2		2	207



LIST OF ILLUSTRATIONS.

_

F10.	ini 1997 - Angel Angel and Angel Ange 1997 - Angel Ang						PAGE
τ.	Larva of Fulex felis (cani.	s) -		\sim			22
2.	Pupa of P. irritans	-	•	\approx	0.50	\approx	23
3.	Imago of Pulex 2				(1 4)	10	24
4.	Head of larva of P. felis	(canis)	-C.		1251	\odot	26
5.	Alimentary canal of larva	1 •	÷5.		(1.1		28
6.	Catocha latipes -	19		*	50 1 3	\overline{a}	39
7.	Balancer of Cecid -	3 2	2.4				40
8.	3 Genitalia of a Cecid		•			(\mathbf{r})	41
9.	Larva and pupa of Cecid	lomyia	5	÷	10 0 0	-	45
	Anchor process of Hessia	an Fly a					46
п.	Aristolochia clematis, sho	wing m	ethod o	of fertili	zation		49
	Galls produced by some					-	71
	Mouth parts of Mycetid la		121	1.4		-	95
14.	Larvæ of Sciophila, Cerop	blatus, a	nd Sci	ara			96
15.	Pupa of Sciara -	-	- 12 2 - 1		-	-	97
16.	Alimentary canal of Myc	etid lar	va (My	cetophile	a) -		100
17.	Head and antenna of As	indulun	z, and l	head of	Sciara	*	100
18.	Boletina dubia -			2			101
19.	Three types of venation i	in Sciar	a -	-		*	107
20.	Wing of Bradysia -	15	2.55	÷	220		113
21.	Epidapus venaticus	<u>e</u>	1.5				113
22.	Wing of Zygoneura -	17	-		•	-	114
23.	Mycetophila cingulum	25		5		-	116
24.	3 Genitalia of Phronia	12	853	5	٠	2	126
25.	9 Genitalia of Phronia	×		(7)		6	128
26.	Head of Leptomorphus I	Valkeri	2.1	1	÷2	-	133
27.	Head of Tetragoneura S	ylvatica	55			2	136
28.	Sciophila Fasciata -	10	55	157	200		139
29.	Ceroplatus lineatus-		55		575	*	143
30.	Antenna of a Macrocera	ę	53		1.5		144

LIST OF ILLUSTRATIONS.

1/16.							PAGE
31.	Bolitophila fusca -	3:50	5	2	51	-	147
32.	Mycetobia pallipes (wing,)	eg, and	palpus)	•		10	148
33.	Wing of Ditomyia fasciate	2 -			÷		149
34.	Wing and palpus of Diad	locidia fe	errugino	sa	*	3.	150
35.	Dilopus febrilis, or Fever	Fly	-	58	*		161
36.	Simulium reptans -		÷.	80	2	8	168
37.	Larva of Chironomus plus	mosus	10	1.0			172
38.	Eggs of Chironomus		π.			\geq	174
39.	Pupa of Chironomus plum	iosus		24	*2	æ	175
40.	Clunio marinus -	•	÷	æ	÷	÷.	196
41.	Larva of Ceratopogon bips	inctatus		÷	* 10	-	197
42.	Pupa of Ceratopogon biput	nctatus	×:	×	*	÷	197
43.	Compontia cruciformis	÷	÷.	*		2	202
44.	Three undescribed larvæ	of Chin	onomus	(sp. ?)		-	204

viii