INSECTS
OF THE
YUKON

Edited by
H.V. Danks
and
J.A. Downes
Insects of the Yukon

Edited by H.V. Danks
Biological Survey of Canada
(Terrestrial Arthropods)
Canadian Museum of Nature

and

J.A. Downes
Research Associate
Canadian Museum of Nature

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The photograph, taken from a hilltop east of the highway looking west towards Alaska, shows km 154 to 156 of the highway. A very large number of Yukon species have been collected from this locality. For example, Windy Pass is probably the most popular location for collecting arctic butterflies and moths in North America, and most species of Lepidoptera recorded from the Ogilvie Mountains in this book, including about 55 species of butterflies, occur within the range of this photograph. A large number of species endemic to Beringia—in this and many other groups—have also been collected here (chiefly reported as Dempster Hwy. km 155), including the spiders *Poeciloneta petrophila* (Linyphiidae), *Walckenaeria fraudatrix* (Erigonidae) and *Pardosa beringiana* (Lycosidae), the weevils *Lepidophorus lineaticollis* and *Ceutorhynchus barkalovi*, the arctiid moth *Acsala anomala*, the pierid butterfly *Euchloe naina*, and the flies *Lasiopogon canus* (Asilidae), *Eutrichota woodi* and *Paradelia ogilviensis* (Anthomyiidae). Other chiefly Palaearctic species rarely collected in North America are found here too, such as the moths *Dodia kononenkoi* (Arctiidae) and *Lasionycta skraelingia* (Noctuidae). The area is even the type locality for some Beringian species, the canid beetle *Poeciloneta woodi* (described in this book), the moths *Neoarctia lafontainei* (Arctiidae), *Parrabarrovia ogilviensis* and *Trichosilia beringiana* (Noctuidae), and the sphaerocerid fly *Pullimosima yukonensis*. Photograph courtesy of James T. Troubridge.
The Yukon is an area of North America of key relevance in understanding the fauna of the continent, both in the Northwest and elsewhere. Unglaciated in Pleistocene time and hence a refugium for organisms, connected intermittently to Eurasia and its faunas whilst cut off by ice from the rest of the North American continent, and now with a relatively rich fauna for its latitude, the Yukon contains many taxa that can bring information to bear on important questions of evolution, dispersal and adaptation.

Consequently, the contents of this book will be of interest to a wide audience. Information here will appeal to zoologists, botanists, and others interested in biotas, especially in the North, whether their focus is on current biodiversity, on the historical development of faunas and ecosystems, or on adaptations to rigorous conditions.

The results reported in this book stem chiefly from a concerted effort by many cooperators under the auspices of the Biological Survey of Canada (Terrestrial Arthropods), which many years ago recognized the importance of the region in the context of the Beringian refugium, and the fact that its insect fauna was very little known. Most of the chapters here deal in detail with particular groups of insects and arachnids, providing the basic information for further analysis and study. These taxonomically arranged chapters are introduced by an outline of the development of the work and its scientific importance, and overviews of the current and past environments of the region. A concluding chapter draws some general lessons from the detailed analyses provided by the core taxonomically arranged chapters.

A book such as this one reflects the effort and collaboration of a large number of individuals and agencies. It is a pleasure to acknowledge the outstanding cooperation that brought the book to fruition, so establishing a baseline for further work on the Yukon fauna.

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H.V. Danks
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List of Contributors

Anderson, R.S.  
Research Division  
Canadian Museum of Nature  
P.O. Box 3443, Station “D”  
Ottawa, Ontario, Canada K1P 6P4

Ball, G.E.  
Department of Biological Sciences  
University of Alberta  
Edmonton, Alberta, Canada T6G 2E9

Behan-Pelletier, V.M.  
Biological Resources Program  
Research Branch, Agriculture and Agri-Food Canada  
K.W. Neatby Bldg.  
Ottawa, Ontario, Canada K1A 0C6

Cannings, R.A.  
Royal British Columbia Museum  
P.O. Box 9815, Sn. Prov. Govt.  
Victoria, British Columbia, Canada V8W 9W2

Cannings, S.G.  
Conservation Data Centre, Resource Inventory Branch  
Ministry of Environment, Land and Parks  
780 Blanshard Street  
Victoria, British Columbia, Canada V8V 1X4

Currie, D.C.  
Centre for Biodiversity and Conservation Biology  
Royal Ontario Museum  
100 Queen’s Park  
Toronto, Ontario, Canada M5S 2C6

Danks, H.V.  
Biological Survey of Canada  
(Terrestrial Arthropods)  
Canadian Museum of Nature  
P.O. Box 3443, Station “D”  
Ottawa, Ontario, Canada K1P 6P4

Dillon, M.E.  
Biological Resources Program  
Research Branch, Agriculture and Agri-Food Canada  
K.W. Neatby Bldg.  
Ottawa, Ontario, Canada K1A 0C6

Dondale, C.D.  
Biological Resources Program  
Research Branch, Agriculture and Agri-Food Canada  
K.W. Neatby Bldg.  
Ottawa, Ontario, Canada K1A 0C6

Downes, J.A.  
Canadian Museum of Nature  
P.O. Box 3443, Station “D”  
Ottawa, Ontario, Canada K1P 6P4

Finnamore, A.T.  
Invertebrate Zoology, Provincial Museum of Alberta  
12845-102 Ave  
Edmonton, Alberta, Canada T5N 0M6

Footit, R.G.  
Biological Resources Program  
Research Branch, Agriculture and Agri-Food Canada  
K.W. Neatby Bldg.  
Ottawa, Ontario, Canada K1A 0C6

Francoeur, A.  
Université du Québec à Chicoutimi  
Chicoutimi, Québec, Canada G7H 2B1

Griffiths, G.C.D.  
Department of Biological Sciences  
University of Alberta  
Edmonton, Alberta, Canada T6G 2E9

Hamilton, K.G.A.  
Biological Resources Program  
Research Branch, Agriculture and Agri-Food Canada  
K.W. Neatby Bldg.  
Ottawa, Ontario, Canada K1A 0C6

Harper, F.  
Département de sciences biologiques  
Université de Montréal  
C.P. 6128, succ. “Centre-ville”  
Montréal, Québec, Canada H3C 3J7

Harper, P.P.  
Département de sciences biologiques  
Université de Montréal  
C.P. 6128, succ. “Centre-ville”  
Montréal, Québec, Canada H3C 3J7

Lafontaine, J.D.  
Biological Resources Program  
Research Branch, Agriculture and Agri-Food Canada  
K.W. Neatby Bldg.  
Ottawa, Ontario, Canada K1A 0C6

Larson, D.J.  
Department of Biology  
Memorial University of Newfoundland  
St. John’s, Newfoundland, Canada A1B 3X9

Marshall, S.A.  
Department of Environmental Biology  
University of Guelph  
Guelph, Ontario, Canada N1G 2W1

Marusik, Y.M.  
Institute for Biological Problems of the North  
Russian Academy of Sciences  
K. Marx pr. 24  
Magadan 683010, Russia
Insects of the Yukon

Matthews, J.V., Jr.
Terrain Sciences Division
Geological Survey of Canada
Ottawa, Ontario, Canada K1A 0E8
Current address: Ohana Productions
23 Sherry Lane, Nepean, Ontario, Canada K2G 3L4

Maw, E.
Biological Resources Program
Research Branch, Agriculture and Agri-Food Canada
K.W. Neatby Bldg.
Ottawa, Ontario, Canada K1A 0C6

Oliver, D.R.
Biological Resources Program
Research Branch, Agriculture and Agri-Food Canada
K.W. Neatby Bldg.
Ottawa, Ontario, Canada K1A 0C6

Parker, C.R.
Centre for Biodiversity and Conservation Biology
(formerly Department of Entomology)
Royal Ontario Museum
100 Queen’s Park
Toronto, Ontario, Canada M5S 2C6
Current address: U.S. Geological Survey Biological Resources Division, Great Smokies Field Station
1314 Cherokee Orchard Road
Gatlinburg, Tennessee 37738, U.S.A.

Redner, J.H.
Biological Resources Program
Research Branch, Agriculture and Agri-Food Canada
K.W. Neatby Bldg.
Ottawa, Ontario, Canada K1A 0C6

Ricker, W.E.
Pacific Biological Station
Department of Fisheries and Oceans
Nanaimo, British Columbia, Canada V9R 5K6

Schweger, C.E.
Department of Anthropology
University of Alberta
Edmonton, Alberta, Canada T6G 2H4

Scudder, G.G.E.
Department of Zoology
University of British Columbia
6270 University Blvd.
Vancouver, British Columbia, Canada V6T 1Z4

Stewart, K.W.
Department of Biological Sciences
University of North Texas
P.O. Box 5218
Denton, Texas 76203-0218, U.S.A.

Telka, A.
Terrain Sciences Division
Geological Survey of Canada
Ottawa, Ontario, Canada K1A 0E8

Vickery, V.R.
Lyman Entomological Museum and Research Laboratory
McGill University, Macdonald Campus
21 111 Lakeshore Road
Ste-Anne-de-Bellevue, Québec, Canada H9X 3V9

Wiggins, G.B.
Centre for Biodiversity and Conservation Biology
(formerly Department of Entomology)
Royal Ontario Museum
100 Queen’s Park
Toronto, Ontario, Canada M5S 2C6

Wilson, S.W.
Department of Biology
Central Missouri State University
Warrensburg, Missouri 64093, U.S.A.

Wood, D.M.
Biological Resources Program
Research Branch, Agriculture and Agri-Food Canada
K.W. Neatby Bldg.
Ottawa, Ontario, Canada K1A 0C6