Aquatic Biodiversity in Latin America Biodiversidad Acuática en América Latina

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Volume 6

The Blackflies (Diptera: Simuliidae) of Brazil

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Anthony J. Shelley, Luis M. Hernández, Marilza Maia-Herzog, Antonio P. A. Luna Dias & Paulo R. Garritano



Blackflies Simuliidae Fauna Of The Ubr Diptera Volume 6 Part 6

John W. McCreadie

Blackflies Simuliidae Fauna Of The Ubr Diptera Volume 6 Part 6:

The Black Flies (Diptera Simuliidae) of Guatemala and Their Role as Vectors of Onchocerciasis Herbert T Dalmat, Paul A Review of the Mesoamerican and South American Black Flies of the Tribe Prosimuliini (Simuliinae, Bartsch, 1956 Simuliidae) Pedro W. Wygodzinsky, Sixto Coscarón, 1973 The black fly fauna of cool and cold temperate South America is composed of a comparatively small number of species of Simulium Simuliinae Simuliini and several genera and species of the Prosimuliini This survey of Neotropical Prosimuliini which also includes Guatemalan and Mexican highland forms is a taxonomic treatment mainly on the generic level accompanied by notes on biology and geographical distribution The following genera as arranged by their geographical areas are dealt with Mayacnephia new genus type Simulium pachecolunai De Leon and Tlalocomyia Wygodzinsky and D az N jera Mesoamerican highlands Araucnephia new genus type Simulium montanum Philippi and Araucnephioides new genus type Araucnephioides schlingeri new species Mediterranean climate area of central Chile Cnesia Enderlein Cnesiamina new genus type Simulium atroparvum Edwards and Paraustrosimulium Wygodzinsky and Coscar n Valdivian and Magellanic areas of southern Chile and western Patagonia and Lutzsimulium d Andretta and d Andretta coastal ranges of southern Brazil Species are also described redescribed or discussed as well as illustrated except for the large genus Gigantodax which is planned to be monographed later Cnesia ornata and Cnesia pusilla western Patagonia are new species Cnesia gynandrum is synonymized with Cnesia dissimilis None of the genera listed is found in America north of Mexico or on other continents It has not been possible to trace the origin and routes of dispersal of the Latin American prosimuliine genera but some intergeneric affinities especially among sympatric genera are postulated P 133 Memoirs of the American Entomological Society American Entomological Society, 1995 The Entomologist's Monthly Magazine ,1994 Cumulated Index Medicus ,1966 **Smithsonian** Miscellaneous Collections ,1956 Host Bibliographic Record for Boundwith Item Barcode 30112124661692 and Others ,2013 Blackflies (Simuliidae) Ivan Antonovich Rubtsov, 2024-08-19 The majority of blackflies family Simuliidae are blood suckers of man and domestic animals Throughout the vast territory of the Soviet Union in the steppes forest steppes and especially the taiga and tundra blackflies occupy a prominent place among the blood sucking Diptera It is now clear that not only in the tropics but throughout the Soviet Union blackflies are transmitters of several diseases of domestic animals mainly onchocerciasis of cattle and reindeer and many dangerous diseases of domestic fowl Hence blackflies are of medico veterinary and sanitary epidemiological importance Unlike other blood sucking insects such as the malarial mosquito blackflies have hitherto been relatively poorly studies. The purposes of the present volume is to provide a brief description of species and new identification keys It primarily incorporates numerous additions to the first edition of Fauna of the USSR This second edition also includes 18 species from countries adjoining the Palearctic region which have not been recorded to date in the Soviet Union and 30 species described by Enderlein from Europe whose description has been improved upon

which may be discovered later in the Soviet Union The fauna of the USSR currently includes about 300 species of blackflies The Black Flies of Subtropical and Tropical Asia Hiroyuki Takaoka, 2024-07-30 This book uncovers the entire picture of the black fly Diptera Simuliidae fauna in subtropical and tropical Asia the Oriental Region Increased discoveries of new species of black flies in the Oriental Region have disclosed a remarkable diversity in terms of phylogenetic lineages and morphological features particularly adult genitalia and pupal gills The black fly fauna in the Oriental Region is found to be completely different from those in other regions The book has two aims academic and practical Introduction provides the general information on the biology and effects on human and animal health and welfare of black flies and introduces the unique characteristics of the black fly fauna in this region Chapter 2 proposes a classification scheme for all 675 named and 44 unnamed species of Oriental black flies which are placed 11 subgenera and 36 species groups of the genus Simulium In Chapter 3 synoptic accounts are given for their distribution bionomics and taxonomic comments of all the species In Chapter 4 the faunas of black flies in 15 countries or areas India Nepal Bhutan Sri Lanka Myanmar Thailand Peninsular Malaysia Borneo Sunda Archipelago Sumatra Java Bali Lombok Sumbawa Flores and Timor East Indonesia Sulawesi Maluku Islands and Irian Jaya Vietnam Philippines Taiwan South China Nansei Islands Japan are overviewed and species lists and identification keys for females males pupae and larvae are constructed Ninety eight figures of 1 691 line drawings highlight various unique morphological characteristics of most subgenera and species groups Chapters 2 and 3 are academically essential for medical or biological scientists and students to study black flies Keys to identify species in 15 countries or areas in Chapter 4 are of practical use for health workers for the control of insects of medical and veterinary importance as well as for ecologists for the study of aquatic invertebrates Many novel morphological characteristics illustrated in the figures appeal to readers and show the importance of biodiversity of natural terrestrial ecosystems Contents of this book resulted from the author's taxonomic review of all 719 Oriental species of black flies with reference to 486 publications **New Species of** Black Flies (Diptera: Simuliidae) from Nepal Hiroyuki Takaoka, Suchitra Shrestha, 2010 **Blackflies (Simuliidae)** Ivan Antonovich Rubt∏s∏ov,1989 Los Simúlidos (Diptera, Simuliidae) de Brasil, Espagnol; Castillan A. J. Shelley, 2010 This second volume on blackflies Simuliidae in the ABLA series concentrates on the 80 species present in Brazil This modern morphological overview within the framework of the World Inventory of the Simuliidae forms the foundation for further morphological studies in the Neotropical region prerequisite to cytological and molecular studies on the family Comprehensive descriptions and taxonomic discussions are given for each species with digital images of main identification characters and generic subgeneric and species identification keys in English Spanish and Portuguese Brief world and Neotropical overviews of the biology medical importance and control of species are provided with full coverage for those found in Brazil The book is addressed to taxonomists immunologists ecologists veterinarians physicians and biologists in general Black Flies Ke Chung Kim, Richard W. Merritt, 1987 Black flies simuliids are among the most severe pests

affecting humans and animals worldwide Responsible for the transmission of onchocerciasis among humans and bovine onchocerciasis and avian malaria among wildlife and agricultural animals black flies competency as disease vectors is rivaled only by that of mosquitos and ticks Because of their economic and medical importance black flies have been the subject of intense research tremendous progress having been achieved in many areas including taxonomy ecology cytogenetics biochemistry and control This book evolving from an international conference of the world's foremost authorities integrates for the first time the wide range of multidisciplinary research findings on black flies The thirty two chapters present a comprehensive discussion of systematics biochemistry sensory physiology behavior and ecology of immatures and adults population monitoring and management current methods of control and disease epidemiology The annotated checklist identifies and provides geographical distribution of all formally described black flies in the world and includes almost 2 000 specific subspecific and 121 generic subgeneric names The book provides a cohesive understanding of black flies and will be invaluable to entomologists epidemiologists biologists veterinarians parasitologists and medical researchers concerned with developing an economically conservative environmentally sound management system against black flies and simuliid borne diseases worldwide The Ecology and Distribution of Immature Black Flies (Diptera: Simuliidae) of the Rose Lake Wildlife Research Area, Michigan Douglas H. Ross, 1977 Simuliidae (Insecta Douglas A. Craig, Ruth E. G. Craig, Trevor K. Crosby, 2012 Black flies sandflies te namuKnown in New Zealand as sandflies or te namu and elsewhere in the world mainly as black flies Simuliidae are iconic New Zealand insects Virtually every New Zealander has been bitten by female simuliids as have many overseas tourists Worldwide simuliids are notorious for their disease transmission in particular river blindness in Africa and South America New Zealand simuliids are not known to transmit any diseases to humans but many people react badly to bites of species to which they have no previous exposure Simuliids of New Zealand belong to the genus Austrosimulium known only from New Zealand Tasmania and mainland Australia Simuliid larvae require running water and in New Zealand are more or less ubiquitous occurring in almost all running water habitats There are 19 species of Austrosimulium in New Zealand but only three species found here are serious biters of humans and it is only the females that bite they bite to get the nutrients to produce eggs In this Fauna keys are provided for larvae pupae adults and ecological habitats All known stages are described and illustrated for each species together with information on their bionomics and biogeography There are 72 full page colour plates and a total of 540 figures Molecular analysis indicated that New Zealand Austrosimulium arrived by dispersal about 5 million years ago Elsewhere in the world simuliids in the genus Austrosimulium may be considered to feed on birds or mammals depending on the presence or absence of a tooth on the tarsal claw New Zealand simuliids are opportunistic and females will generally take blood meals from whatever is available though there is one species that attacks Fiordland crested penguins while studiously avoiding humans What did New Zealand simuliids feed on before humans arrived Of little doubt it would be on the vast number of birds now greatly depleted and probably also the

large numbers of seals present then Indeed searching along beaches for a blood meal from either birds or seals still appears inherent behaviour of New Zealand adult female simuliids and probably the reason for their name sandflies and Production Dynamics of Four Black Fly Species (Diptera:simuliidae) in Western Oregon Streams Jon A. Speir, 1975 Ecological and production studies of Prosimulium caudatum Shewell P dicum Dyar and Shannon Simulium arcticum Malloch and S canadense Hearle Diptera Simuliidae were made in 1971 and 1972 in three streams near Corvallis Oregon The purpose of the study was to characterize the biology and population dynamics of larvae and to compare the production of the four species under various spatial and temporal conditions A total of 54 annual production estimates was derived utilizing 37 stations In addition 17 annual drift and 22 emergence as pupae determinations were made Data on the physical and chemical characteristics of the streams and on larval associates parasites predators and food types were obtained at all stations Laboratory experiments provided data on feeding rates and predator impact The two Prosimulium species always coexisted and occurred in all streams Simulium arcticum and S canadense were studied in two streams only All species were univoltine and had egg stage durations exceeding 40 weeks Prosimulium spp larvae appeared in mid February and were on riffles for an average of 10 3 weeks Simulium arcticum hatching began about six weeks later Larvae of this species developed in an average of 8 8 weeks Development of S canadense began about nine weeks later than for Prosimulium spp but lasted nearly as long All four black flies had six larval instars All larvae were filter feeders and fed primarily on the suspended materials in the streams Detritus made up from 65 90% of the diet with the rest being filamentous algae Alimentary tract clearing of larvae was usually accomplished in less than one hour Black fly immatures were associated with about 75 other benthic insect species Of these nine were likely important simuliid natural enemies Fish were minor black fly predators Gastromermis nematodes occurred in about 3% of all mature simuliid larvae Annual losses due to drift averaged about 6% Simuliid drift appeared to be a function of standing crop density Growth related crowding may also have been a factor Effects of diel light conditions temperature and discharge were minimal A diel emergence pattern existed for Simulium spp adults only The time between emergence and oviposition was likely about 0 5 week for all species Emergence at most stations was single peaked and averaged 3 6 weeks in duration The sampling universe at each station could be effectively partitioned to exclude areas where larvae did not exist Thus the weekly stratified random sampling program provided population estimates with error terms of usually 15% or less All quantitative data were expressed on a per m2 of overall riffle basis and not on a per m2 of habitat basis to make the study more comparable to other benthic research Density biomass and production differences between stations streams and years were minimal for each species and therefore were treated as replicates Initial densities ranged from over 11000 to about 16000 larvae m2 Mortality for aggregates of all species was similar with about 70% of all losses occurring during the first half of larval life Growth for all species was generally logistic and averaged over 0 090 gig per day annually Production averaged for 1971 and 1972 in g m2 was P caudatum 2 644 P

dicum 2 908 S canadense 3 141 and S arcticum 3 950 This species ranking also held for initial density mean density and mean biomass Biomass and production were almost always closely correlated Mortality variations had a greater influence on production than did growth rate Averaged for all species the mean total mortality due to drift and parasites was 6 2% and 0 5% respectively An average of 10 7% of colonizing larvae survived to emerge Predator caused losses were estimated to provide the 82 6% needed to balance the loss budget Black fly larvae were the dominant processor of suspended materials in the three streams On the average they outnumbered all other primary consumers combined on riffles by a factor of 27 Simuliid larvae functioned as the primary prey reservoir for as many as 20 species of insect carnivores from February through June of both years The Natural History of Blackflies Roger W. Crosskey, 1990-11-28 The study of blackflies has come of age the blackfly is now recognized as a carrier of major endemic diseases its larval stages are seen to play a major role in the ecology of rivers and streams and blackfly chromosomes have proved unusually amenable material for cytogenetical studies The expanded interest in the blackfly has greatly increased the scientific literature about them literature that is extremely technical highly specialized and often of little help to non specialists This work bridges the gap between specialists and those whose work brings them in contact with the blackfly but who need information at a more general level It synthesizes present knowledge about the natural history of the fly family Simuliidae covering taxonomic background elements of larval structure and life in water adult fly structure migration mating biting and bloodsucking human diseases and natural enemies of larval and adult flies Over 1200 bibliographic citations a glossary of technical terms and numerous figures tables and illustrations are included A New Taxonomic and Geographical Simuliidae .1931 Inventory of World Blackflies (Diptera: Simuliidae) Roger Ward Crosskey, Theresa M. Howard, 1997-01-01 Species Assemblages of Larval Black Flies (Diptera:Simuliidae): Random Or Predictable? John W. McCreadie, 1997

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