



SELYSIA

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THE DRAGONFLIES OF COSTA RICA

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We are currently working on a comprehensive manual to the Odonata of Costa Rica, and are anxious to include all the species which occur (or are likely to occur) in Costa Rica. To help us achieve his aim we would be grateful for species lists of Odonata from Costa Rica and neighboring countries (preferably with collection data) from anyone who has collected there. We would also be willing to identify any adult Costa Rican odonate sent to us. Species lists or unidentified material should be sent to one of us at the addresses above.

ISCHNURA PROGNATA

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Agrion (subgenus *Ischnura*) *prognatum* was described from Berkeley Springs, Virginia by Hagen in 1861. He did not state the etymology of the name. In a large Latin dictionary, *prognatum* means "a descendent of," and there is no reason to think Hagen had some other meaning in mind. The dictionary does not list a "prognathum," in spite of the fact that the term "prognathous" in biology refers to mouthparts that are directed anteriorly. Selys (1876) used *prognatha* without explanation. Since that time most authors have used *prognatha*, but Williamson (1903, 1917) and Root (1924) used *prognata*. In 1921 and thereafter Williamson switched to *prognatha* without explanation, although someone has scratched out the offending "h" in the copy of Williamson's card file at the Florida State Collection of Arthropods. However, I have not made a complete survey of the literature relative to this problem. Since this is a question of spelling and not really one of name priority, I believe that no "50 Year Rule" of name priority applies. Therefore, this species of Zygoptera should be called *Ischnura prognata* Hagen, 1861. If anyone thinks otherwise, I would like to hear from them.

ADULT ZYGOPTERA SPECIMENS REQUESTED

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From January 1990, I intend to study some new aspects of the zygoteran secondary genitalia, especially the male. It is envisaged to relate the morphology with the taxonomy. For this I need adult damselfly specimens from different parts of the globe to make my study comprehensive. The specimens could be in the dried form, or preserved in alcohol. I would be grateful if any S.I.O. brethren could kindly spare from their present and/or future collections a couple of adult specimens for me at an early date. Any person able to oblige in this way herewith may accept my sincere thanks for this help. I also take this opportunity to implore upon colleagues to send me their copies of relevant publications.

ENALLAGMA POPULATION DIFFERENTIATION STUDY

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I am conducting a study of population differentiation in *Enallagma* species. In this study I am examining the variation in a number of larval morphological structures and genetic variation between populations in different regions of the northeastern United States (Ohio and Pennsylvania to New England) and southern Canada (Ontario and Quebec) for a number of *Enallagma* species. I want to include species inhabiting both fishless and fish-containing ponds, marshes and lakes in this study. My difficulty is identifying areas where a number of fishless ponds, marshes and/or lakes exist that support *Enallagma* populations (key indicator species are *E. aspersum*, *E. boreale*, and *E. cyathigerum*). For this study I require 2-4 populations within 30-40 miles of each other. If you know of areas in the northeastern U.S.A. or southern Canada where such a group of fishless ponds and lakes exists (or the locations of *E. aspersum*, *E. boreale* or *E. cyathigerum* populations), please write me at the above address or call me at (813) 465-2571 as soon as possible. I would greatly appreciate any assistance in identifying such areas.

SELYSIA

A Newsletter of Odonatology

Edited by
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This newsletter is designed to disseminate facts and news about the activities of Odonatologists and Odonatology. It is not intended as a journal nor an organ for the publication of articles or technical papers. The name is based upon that of the "Father of Odonatology", Baron Edmond de Selys Longchamps.

SELYSIA was founded in 1963 by Dr. B. Elwood Montgomery at Purdue University, and edited from 1970-1986 by Dr. Minter J. Westfall, Jr., at the University of Florida. With V. 13, #1 (1 March 1984) it was recognized as the official newsletter of the Societas Internationalis Odonatologica as well as the U.S. National Office of S.I.O.

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A VISIT TO THE EASTER ISLAND

Jean Belle
Onder de Beumkes 35
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From 22 till 25 November 1989 I was able to visit the Easter Island (Isla de Pascua or Rapa-Nui) situated in the Pacific about 4000 km from Chile and 2000 km from the island Pitcairn. The Easter Island measures in length 22.4 km and in width 11.3 km. It is subtriangular of form, dry, largely bare of trees and without any rivulet. There are three extinct volcanos, two of which, the Rano Kau and the Rano Raraku, having a crater lake.

Just before my departure to that island I got in touch with Dr. H. Dumont of the State University of Ghent, Belgium. He wrote that he was on the Easter Island for a short stay in February 1987 in connection with forthcoming palaeolimnological research organized by the university and that he had observed only the cosmopolitan libellulid *Pantala flavescens*, flying in swarms, a dragonfly already reported from the island by Campos & Pena (*Revta chil. ent.* 7:220). He did not see any damselfly at the two crater lakes, probably due to the fact that a fish species of *Gambusia* was put out there.

During my trips on the island I found the *Pantala* in every part, although not in swarms. The inhabitants of the island call the dragonflies 'matapiojos', a name also used in Chile and Colombia for dragonflies. I saw some boys tying a length of thread, to which a small piece of paper was attached, to the end of the abdomen of a number of *Pantala*s which they had captured. After release, the insects fly away appearing to be minute advertising planes! Reaching the shores of the crater lakes, I was surprised to see such vast numbers of small fishes running away on my arrival. No damselfly was detected, probably, as already suggested by Dr. Dumont, because damselfly larvae cannot survive due to the presence of these numerous greedy small fishes.

DRAGONFLY RECORDS FROM CAVES:

A REQUEST
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We are working on a catalogue of dragonfly records from the hypogean (subterranean) environment. As it appears, some species are more or less regularly associated with caves and overhangs (e.g., *Indolestes obiri*, *Gynacantha* sp.); the adults of others have been incidentally recorded from such habitats (e.g., *Lestes virens*, *Helioaeschna longfieldae*, *Somatochlora metallica*, *Zyxomma elgneri*), where even oviposition has been noticed (*Dythemis sterilis*); but the majority of records refer to larvae that were most likely washed into the caves (e.g., *Argia* sp., *Telebasis salva*, *Aeshna* spp. in Canada; and in Europe, *Anax imperator*, *Cordulegaster diadema*, *Hemicordulia australiae*, *Dythemis multipunctata*). These observations come from Australia, Austria, Cameroon, Canada, Hungary, Mexico, New Zealand, Romania, Slovenia, Switzerland and the United States, and were published by Duddich (1932), Elliott & Reddell (1973), Longfield (1936), May (1963), Negrea & Negrea (1968), Pearse (1936, 1938), Peck (1988), Reddell (1970), Strouhal (1939), Thompson (1989), Watson (1973) and Watson & Moulds (1979).

A large number of species occurring in the cenote habitats of Yucatan, Mexico (i.e., deep wells, formerly used as sacrificial sites during the Mayan civilization), were published mainly by Williamson (1936) and Pearse (1936, 1938); viz., *Protoneura corcula*, *Acanthagrion gracile*, *Argia gaumeri*, *A. translata*, *Telebasis filiola*, *T. salva*, *Belonia croceipennis*, *Brachymesia furcata*, *Cannaphila funerea*, *Erythemis plebeja*, *E. simplicicollis*, *Erythrodiplax connata*, *Micrathyria debilis*, *M. hageni*, *Orthemis ferruginea*, *O. levis*, and *Perithemis domitia*. Gloyd's (1938) paratype of *Libellula gaigei* also comes from a Yucatan cenote.

We are not sure whether or not one could also include in this category those species that often breed in overhangs behind waterfalls (e.g., *Calicnemia*), but a very interesting hypogean fauna is that inhabiting the "interstitial" groundwater, as recently evidenced by Reygobelle & Castella (1987, *Adv. Odonatol.* 3).

While it is clear that the vast majority of records from the hypogean habitats refer to incidental stragglers, or to incidentally washed-in larvae, the "cave-dwelling" of species whose adults have crepuscular (*Gynacantha*, some corduliids) or shade-seeking habits (e.g., *Belonia*) may have more than an incidental significance. This is also true of larvae moving into the groundwater with the progressing dessication of their normal open-air habitats, or as a precaution against freezing, or to avoid predatorial pressure.

If you know of any other publications, or have any personal records from any kind of hypogean habitats, we would be thankful to receive them. Please mention the stage, sex, distance from the entrance of the cave, light condition, and any other available circumstantial evidence you consider of interest.

NEW FLORIDA DAMSELFLY BOOK

Sidney W. Dunkle

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A new book, *Damselflies of Florida, Bermuda, and the Bahamas* by Sidney W. Dunkle, and published by Scientific Publishers, Inc., will be available in June 1990. It will include 101 color photos, including a number by Clark Shaffer and Curtis Williams. The book covers 46 species, a third of the Nearctic fauna, with 18 (35%) of them found even in Canada. The book is similar to a previous volume, *Dragonflies of the Florida Peninsula, and the Bahamas*, also by S. W. Dunkle, but differs in that it includes the Florida Panhandle as well as the Peninsula, a number of line drawings of male appendages and female mesostigmal plates, a "Quick Guide" to some Florida Zygoptera, a pronunciation guide to scientific names, and a "Similar Species" section under each species account. *Damselflies of Florida* will be available in a paperback version and a clothbound version. The paperback version is available from the S.I.O. Central Office, P.O. Box 256, 3720 AG Bilthoven, The Netherlands, for 48 Dutch Guilders, including taxes but not postage. The clothbound version is about 74 Guilders plus postage. Europeans should pay via Postal Giro. *Dragonflies of Florida* is also available from S.I.O. in a paperback version only for 48 Guilders, but the publisher plans to raise the price on 1 April 1990 by the equivalent of about 4 Guilders.

MAHATO COMPLETES M.S. DEGREE

Mahendra Mahato

Department of Biological Sciences
East Tennessee State University
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I have successfully completed my M.S. in Biological Sciences at East Tennessee State University (USA) under the guidance of Dr. Dan M. Johnson. During my study period, I also helped Dr. Johnson as a research assistant in his NSF-funded aquatic ecology project. For my M.S. thesis, I studied the successful invasion of the Bays Mountain Lake odonate assemblage by *Dromogomphus spinosus*. In August 1990, I plan to continue research on aspects of odonate conservation as a Ph.D. student at the University of Nevada-Reno with Prof. Peter Brussard (Chairman, Dept. Biology, an active conservation biologist). In the meantime, I am going back home, to Kathmandu, Nepal, for a few months. While in Kathmandu, I will continue my research on *Epiophlebia laidlawi* in Siwapuri. It is reported that the flight season for *Epiophlebia* is from May to early July, so I should have a good opportunity to study adult behavior as well as larval ecology of this relict dragonfly. I hope to get some interesting results for presentation in the XI International Symposium of Odonatology. If any of you have any suggestions for *Epiophlebia* research, please inform me at my Kathmandu address (P.O. Box 49, Dilli Bazar, Kathmandu, Nepal).

MINNESOTA COLLECTION AVAILABLE FOR STUDY

Myron Anderson

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A number of years ago we were actively involved in studying the adult dragonflies of Minnesota and published a few papers. Our collection is quite extensive and includes a number of immature stages as well. I have had some students more recently that have collected immatures in the streams and rivers of central and southern Minnesota but have not carried it far enough for publication. Identification of immatures remains a stumbling block. We do have several complete life cycles, from hatching to adult or late instars, that resulted from our rearing procedures. While on sabbatical in 1980, I worked with Dr. Scott Cooper at the University of California, Santa Barbara, on an analysis of immatures in five streams in the Santa Barbara area. I am not aware, however, if he has completed the project. I made some collections on the island of Santa Cruz during that year.

Currently, I am planning a leave to Perth in western Australia. Although my emphasis will be on interstitial organisms in fresh water habitats, I hope to enhance our collection with some Australian dragonflies.

If anyone has a need to use our collection, it is available. We have long series in some species. Most of the collection is pinned.

WHERE YOU CAN GO

Sidney W. Dunkle

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A new book will appear in Spring 1990 that will give information on places to stay during Neotropical odonate study. It is *Rainforests: A Guide to Research and Tourist Facilities at Selected Tropical Forest Sites in Central and South America*, by James L. Castner. It will be about 300 pages with 30 black-and-white photos, 20 line drawings, and 9 maps. The author evaluates sites in 7 Neotropical countries with data on location, logistics, seasonality, forest types, trail systems, and costs. The book also includes a bibliography on the tropics, sources of research funding, a specialized Spanish-English vocabulary, and a list of nature tour operators. The book is available from: Feline Press, P.O. Box 7219, Gainesville, FL 32605-7219, USA. The price is \$21.95 plus \$1.50 shipping within the U.S. Add \$0.30 shipping for each additional book, and Florida residents add \$1.32 tax. Orders from the U.K. add \$3.50 shipping. All payments should be as a check or money order collectible at a U.S. bank.

"... just over the surface of the pond, two large slate-color'd dragonflies, with wings of lace, circling and darting and occasionally balancing themselves quite still, their wings quivering all the time, (are they not showing off for my amusement?) ..."

Whitman, Walt. 1887. "A July Afternoon by the Pond," pages 137-138 in *Specimen Days in America*. Walter Scott, London, 312pp.

[Thanks to Bruce Noll for sending this and suggesting that such quotes be used to fill blank spaces in SELYSIA. I would be glad to receive others.]

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