A list of the Odonata of Honduras

Sidney W. Dunkle*

SUMMARY. The 147 species of dragonflies and damselflies known from Honduras are listed, along with their distribution by political department. Of these records, 54 are new for Honduras, including 9 which extend known ranges of species northward or southward.

RESUMEN. Las 147 especies de libélulas conocidas en Honduras son mencionadas junto con su distribución por departamento. De esta cifra, 54 especies son nuevas en Honduras. Nueve especies han ampliado sus límites geográficos llegando a este país por el sur y por el norte.

Very little has been written about the Odonata of Honduras. Williamson (1905) gave some notes on collecting in Cortes Department, mostly near San Pedro Sula, but did not name the species taken. Williamson (1923b) briefly discussed the habitat of 4 species of Hetaerina collected near San Pedro Sula. Paulson (1982) in his table of Odonata occurrences in Central American countries listed 94 species from Honduras. Argia difficilis Selys has been deleted from the Honduran list because it is thought not to occur in Central America, and was confused with A. oculata Hagen (R. W. Garrison, pers. comm.). The list below includes 54 more species for a total of 147. Of the new records, 5 extend the known ranges of species southward and 4 extend ranges northward. Paulson (1982) listed 54 other species which occur both north and south of Honuras, and therefore can be expected in that country.

While the records of Odonata given here are of interest for purely scientific reasons, they should also be of interest as base line

* Entomology and Nematology Department, University of Florida, Gainesville, Florida, 32611.
data for agriculturists. All Odonata are predators as both winged adults and aquatic larvae, and they devour many insect pests of humans and of their crops and livestock. While no one has quantified the importance of Odonata in natural pest control, or used them in an integrated plant pest management program, surely they are a factor of considerable force in agroecosystems, particularly those near ponds, lakes, or rivers. Of special importance must be those species resistant to agricultural water pollution. I noted on the Escuela Agrícola Panamericana campus at Zamorano that certain species were common during the dry season at irrigation ponds. In order of abundance these were *Ischnura capreola*, *I. ramburii*, and *Micrathyria aequalis*, and in lesser numbers *Perithemis mooma*, *Argia pulla*, *Enallagma civile*, and *Miathyria marcella*. It might prove beneficial to construct a small pond in the middle of each agricultural field, without fish but with shore vegetation, as breeding habitat for odonates. The major source of food for many Odonata in such a situation would have to be the insects associated with crop plants. It would also be to a grower's advantage to pollute water bodies as little as possible, and to maintain a permanent buffer zone of forest along rivers and streams, thus increasing the abundance of odonates in his croplands.

Collections examined to produce data for the following list include: 1) The author's collection, including mostly specimens taken 9-19 December 1987 in central Honduras. 2) Escuela Agrícola Panamericana collection, containing mostly specimens collected on the campus at Zamorano, Francisco Morazán Department. 3) Florida State Collection of Anthropods, Gainesville, Florida. Many of the specimens in this large collection were taken by C. W. Cook near Brus Lagoon, Gracias a Dios Department (but specimen labels say Colon Dept.), and by W. H. Cross near Punta Patuca, Gracias a Dios Department. Both of these localities are on the northeastern Caribbean coast. 4) International Odonata Research Institute collection at Gainesville, Florida. Other collections were kindly examined by colleagues: 5) Carl Cook collection, Center, Kentucky. 6) Thomas W. Donnelly collection, Binghamton, New York. 7) Rosser W. Garrison collection, Azusa, California. 8) Dennis R. Paulson collection, Seattle, Washington.

The distribution of Odonata within Honduras is poorly understood. A list of the Honduran political departments and the number of odonates known from each is given in Table 1. The low
Table 1. Number of Odonata species known from each Honduran Department. Departments are listed approximately from northwest to southeast.

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<thead>
<tr>
<th>Department</th>
<th>Number of Species</th>
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<tr>
<td>1. Ocozpeque</td>
<td>0</td>
<td>10. Atlántida</td>
<td>26</td>
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<tr>
<td>2. Copán</td>
<td>7</td>
<td>11. Valle</td>
<td>2</td>
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<tr>
<td>3. Lempira</td>
<td>0</td>
<td>12. Francisco Morazán</td>
<td>72</td>
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<tr>
<td>4. Santa Bárbara</td>
<td>1</td>
<td>13. Choluteca</td>
<td>9</td>
</tr>
<tr>
<td>6. Intibucá</td>
<td>0</td>
<td>15. Olancho</td>
<td>37</td>
</tr>
<tr>
<td>7. La Paz</td>
<td>0</td>
<td>16. Colón</td>
<td>2</td>
</tr>
<tr>
<td>8. Comayagua</td>
<td>33</td>
<td>17. Islas de la Bahía</td>
<td>3</td>
</tr>
<tr>
<td>9. Yoro</td>
<td>4</td>
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The number of species known from some departments indicates insufficient collecting and indicates where future collecting efforts would best be spent. Some department records were extracted from monographs of genera and descriptions of new species, as stated in the list of species below.

LIST OF SPECIES

This list of Honduran Odonata includes 65 Zygoptera (damselflies) and 82 Anisoptera (dragonflies). Species not designated as new Honduras records with an asterisk (*) were listed by Paulson (1982). Other genus or species names given in parentheses are names that have been changed since Paulson’s list. The Department(s) from which each species has been recorded is given by the numbers from Table 1. An indication of the principal habitat in Honduras follows each entry. Pond species are commonly found at stream pools, especially in the dry season.

ZYGOPTERA

POLYTHORIDAE

*Cora marina Selys—5, 10. Streams

CALOPTERYGIDAE

Hetaerina americana (Fabricius)—5 (Williamson, 1923b), 8, 12, 14, 15. Streams
H. cruentata (Rambur)—5 (Calvert, 1901), 8, 10, 12, 14. Streams
H. miniata Selys—5. Streams
H. occisa Hagen in Selys (= H. macropus Selys)—5, 8, 10, 12, 14, 15. Streams
H. smaragdalis De Marmels (= H. capitalis Selys, in part)—5, 8. Streams
H. titia (Drury)—5, 10, 12, 13, 15. Streams

AMPHIPTERYGIDAE

Amphipteryx agrioides Selys—8. Streams

LESTIDAE

Archilestes grandis (Rambur)—5, 10, 12, 13. Stream Pools
Lestes alacer Hagen—8, 12. Ponds.
L. forficula Rambur—5, 15. Ponds
*L. scalaris Gundlach (= L. tikalus Kormondy, SWD opinion)—15. Ponds
*L. tenuatus Rambur—2. Ponds

MEGAPODAGRIONIDAE

*Heteragrion alienum Williamson—5, 8, 10. Forest streams
H. eboratum Donnelly—5, 8. Mountain Streams
*Philogenia n. sp.—5. Forest Streams?

PSEUDOSTIGMATIDAE

Mecistogaster ornata Rambur—2, 5 (Calvert, 1901). Tree Holes
Megaloprepus caerulatus (Drury)—5 (Calvert, 1901). Tree Holes
Pseudostigma aberrans Selys—"Honduras" (Calvert, 1901). Bromeliads?
P. accedens Selys—5. Bromeliads?

PLATYSTICTIDAE

Palaemnema angelina Selys—5, 10. Forest Streams
P. domina Calvert—5, 12. Forest Streams
P. nathalia Selys—2, 4, 5. Forest Streams
P. paulina (Drury)—5, 10. Forest Streams
*P. n. sp.—5, 10. Streams

PROTONEURIDAE
*Neoneura amelia Calvert—12, 15. Forest Stream Pools
Protoneura amatoria Calvert—5. Forest Stream Pools
Psaironeura remissa (Calvert)—5, 8. Forest Seepages

**COENAGRIONIDAE**

*Acanthagrion inexpectum Leonard—15. Ponds
A. quadratum Selys—9 and 10 (Leonard, 1977), 8, 12, 14, 15. Ponds
*A. trilobatum Leonard—5, 8, 15. Northern Range Extension. Small Shady Streams
*Anisagrion allopterum Selys—12. Seepages
Apanisagrion lais (Selys)—12. Streams
*Argia chelata Calvert—12. Streams
*A. cupraurea Calvert—10. Northern Range Extension. Streams
A. cuprea (Hagen)—5 (Calvert, 1901). Streams
*A. eliptica Selys (= A. oculata Hagen in Selys, in part)—5, 8, 18. Streams
A. extranea (Hagen)—2, 5, 8, 10, 12. Streams
A. fissa Selys—5, 8, 10, 12, 14. Streams
A. frequentula Calvert—5, 12, 15. Streams
A. gaumeri Calvert—5 (Calvert, 1901). Streams
A. indicatrix Calvert—5 (Calvert, 1901). Streams
A. oculata Hagen in Selys—5, 8, 10, 12, 14. Small Forest Streams
A. oenea Hagen in Selys—5, 8, 10, 12, 14, 15. Streams
*A. pipila Calvert—12, 14, 15. Streams
*A. pocomana Calvert—8, 10. Streams
A. pulla Hagen in Selys—5, 8, 10, 12, 14, 15, 18. Ponds & Streams
A. tezpi Calvert—5, 8, 12, 13, 14. Streams
A. translata Hagen in Selys—5, 10, 12, 13, 14, 15. Streams
A. ulmeca Calvert—5 (Calvert, 1901), 10. Streams
*Enallagma civile (Hagen)—12, 15. Ponds
E. novaehispaniae Calvert—5, 8, 12, 13, 14, 15. Streams
E. rua Donnelly—12. Mountain Ponds
Ischnura capreola Hagen—5, 10, 12, 15, 18. Ponds.
I. (Anomalagrion) hastatum (Say)—5 (Calvert, 1901), 12. Mountain Ponds
I. ramburii Selys—5, 12, 15. Ponds, including brackish ones
Leptobasis vacillans Selys—5 (Calvert, 1901), 18. Ponds
Nehalennia minuta (Selys) (= Argiallagma)—5, 15. Ponds
Neoerythromma cultellatum (Selys)—5, 12, 15, 18. Ponds
Telebasis digiticollis Calvert—5, 12, 18. Marshy Ponds
T. filiola (Perty)—5 (Calvert, 1901). Marshy Ponds
*T. salva (Hagen)—12, 15. Marshy Ponds

ANISOPTERA

AESHNIDAE

*Aeshna cornigera Brauer—5. Mountain Ponds
*A. jalapensis Williamson—12. Mountain Ponds
*Anax amazili (Burmeister)—12. Ponds
*A. walsinghami MacLachlan—12, 14. Southern Range Extension. Streams
*Coryphaeschna adnexa (Hagen)—5. Ponds
*C. luteipennis (Burmeister)—14. Marshy Streams
*C. perrensi (McLachlan)—2. Northern Range Extension. Swampy Ponds
*C. secreta Calvert—5. Southern Range Extension. Marshes?
*C. viriditas Calvert—5. Mangrove Swamp areas
*Gynacantha helenga Williamson & Williamson—8, 12. Southern Range Extension. Temporary Pools?
G. mexicana Selys—5 (Calvert, 1901). Temporary Pools
*G. nervosa Rambur—12. Temporary Pools
Staurophlebia reticulata (Burmeister). Temporary Streams
*Triaanthagyna caribbea Williamson—12. Temporary Pools
*T. septima (Selys)—5, 10, 12. Temporary Pools

GOMPHIDAE

*Epigomphus subobtusus Selys—5 (Donnelly, 1986). Forest Streams
*Erpetogomphus constrictor Ris—12. Streams
*E. n. sp. near elaps Selys—12. Streams
*Phyllogomphoides bifasciatus (Selys)—12. Streams & Lakes
P. duodentatus Donnelly—5 (Donnelly, 1979). Streams
*Progomphus clendoni Calvert—10, 14. Streams

LIBELLULIDAE

Anatya guttata (Erichson) (= normalis Calvert, SWD opinion)—5 (Calvert, 1901), 18. Temporary Forest Pools
Brachymesia furcata (Hagen)—5, 18. Ponds
*B. herbida (Gundlach)—12, 18. Ponds
*Brechmorhoga pertinax (Hagen)—12. Streams
B. praecox (Hagen)—5 (Calvert, 1901), 12, 14, 15. Streams
B. rapax Calvert—5. Streams
*B. vivax Calvert—5. Streams
Cannaphila insularis Kirby—5 and 17 (Calvert, 1901), 12. Marshy Ponds
C. vibex (Hagen)—"Honduras" (Calvert, 1901). Marshy Ponds
D. cannacioides Calvert—5, 8, 12, 15. Streams
*D. multipunctata Kirby—5, 12. Streams
D. sterilis Hagen—5, 8, 12, 13, 14, 15, 18. Streams
Erythemis attala (Selys) (=Leptemmis)—5, 18. Ponds
*E. credula (Hagen)—18. Northern Range Extension. Ponds
*E. haematogastra (Burmeister)—12, 15, 18. Ponds & Swamps
E. peruviana (Rambur)—5 (Calvert, 1901), 15, 18. Ponds
E. plebeja (Burmeister)—8, 12, 18. Ponds
E. simplicicollis (Say)—5, 18. Ponds
E. vesiculosa (Fabricius)—5 (Calvert, 1901), 12. Ponds
Erythrodiplax fervida (Erichson)—5, 9 (Harris, 1942), 8, 18. Ponds
E. funerea (Hagen)—5, 8, 11, 12, 14. Temporary Ponds
E. fusca (Rambur)—2, 9, and 10 (Borror, 1942); 5, 8, 12, 14, 15, 16, 18. Ponds
E. umbrata (Linnaeus)—5, 9 (Borror, 1942), 12, 18. Temporary Ponds
Idiataphe amazonica (Kirby)—18. Ponds
I. cubensis (Scudder)—18. Ponds
Libellula croceipennis Selys—8, 12. Seepages
L. foliata Kirby—"Honduras" (Ris, 1910). Seepages?
L. herculea Karsch—"Honduras" (Ris, 1910). Seepages?
Macrothemis hemichlora (Burmeister)—15. Streams
*M. imitans Karsch—12, 14. Streams
M. inacuta Calvert—2, 5, 11, 12, 13, 14, 15. Streams
*M. musiva Calvert—12. Small Streams
*M. pseudimitans Calvert—5, 8, 12, 14. Streams
M. tessellata (Burmeister)—17 (Calvert, 1901). Streams
Miathyria marcella (Selys)—5, 8, 12, 14, 15, 18. Ponds with floating plants
M. simplex (Rambur)—5, 18. Ponds
Micrathyria aequalis (Hagen)—5, 10, 12, 14, 15. Ponds
M. atrata (Martin)—"Honduras" (Calvert, 1901). Ponds
M. debilis (Hagen)—5. Ponds
M. didyma (Selys)—5 (Calvert, 1901), 18. Shady Ponds
M. hageni Kirby—5 (Calvert, 1901), 8. Marshy Ponds
M. ocellata Martin—5, 8, 12, 15. Ponds
Nephepeltia chalconota Ris—5. Ponds
Orthemis ferruginea (Fabricius)—5, 12, 13, 15, 17 (Calvert, 1901),
18. Ponds
O. levis Calvert—5, 15. Streams
*Paltothemis lineatipes Karsch—12. Mountain Streams
*Pantala falvescens (Fabricius)—12, 14, 15, 18. Temporary Ponds
P. hymenaea (Say)—12. Temporary Ponds
Perithemis domitia (Drury)—10 (Ris, 1930), 18. Shaded Pools
P. electra Ris—12. Shaded Pools
P. mooma Kirby—5, 8, 12, 13, 14, 15. Ponds
*Pseudoleon superbus (Hagen)—12, 14. Streams
Sympetrum corruptum (Hagen). Ponds
S. illotum (Hagen)—12. Mountain Ponds
*Tauriphila argo (Hagen)—10, 18. Ponds
*T. australis (Hagen)—12, 18. Ponds
*Tramea binotata (Rambur)—5 (Calvert, 1901), 18. Ponds
*T. calverti Muttkowski—12, 15. Ponds
*T. onusta Hagen—14, 15. Ponds
Uracis fastigiata (Burmeister)—16 (Calvert, 1901). Temporary Pools
*U. imbuta (Burmeister)—18. Temporary Pools

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