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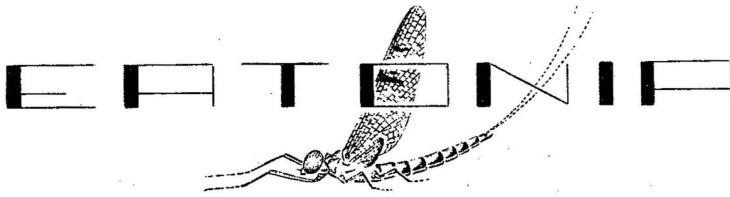
George F. Edmunds Jr.

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No. 7

University of Utah, Salt Lake City

July 15, 1965

Since the last issue of EATONIA research activity on Ephemeroptera has continued to be extensive. In a little over a year, over twenty-five papers on mayflies have appeared. Important meetings of Ephemeropterists were held at the XIIth International Congress of Entomology in London.

In compiling the literature the editors are frequently unable to determine the proper citation for a publication from the reprint. Again we ask that the author(s) kindly indicate on a reprint sent to us the journal and its proper abbreviation in French, German or English if not already given. Also the author(s) should give a translation of the title in French, German or English if the article appears in another language. Such data will help the editors minimize errors in the recent literature section. Please call to our attention any omissions or errors in the literature or address lists in this issue. News, notes or research requests are invited for the next issue of EATONIA.

News and Notes

The Ephemeropterists attending the XIIth International Congress of Entomology in London had an excellent opportunity

to exchange information and to become personally acquainted. Two evening sessions were well attended. One evening meeting was devoted to informal presentation of views and data on the higher classification of the Ephemeroptera. George Edmunds presented his views based primarily on comparison of the skeletal morphology of nymphs and adults by himself and his research associates and assistants. Richard K. Allen and William L. Peters. Vladimír Landa summarized the extensive work which he had done on the internal anatomy of the nymphs. Fruitful discussion followed and was continued in the lounge of the hostel.

The second meeting of workers on Ephemeroptera was chaired by Dr. Macan. Dr. C. Berthélemy agreed to act as secretary for the group. Reports were presented by the various persons who were carrying on specialized studies. Ingrid Müller-Liebenau reported her progress on the study of the Bengtsson species of *Baetis*. Vladimír Landa reported on his work on *Ecdyonurus*. B. B. Rohdendorf discussed the progress of O. Tshernova's (Mrs. Rohdendorf) work on the Ephemeroptera of the U. S. S. R. Elvira Biancheri discussed her work and that of Marta Grandi in Italy. George Edmunds reported that a check list of the world species of Ephemeroptera had been abandoned when Georges Demoulin reported to

him (in letter) that he already has such a list partially completed and intends to complete it in the near future. Dr. Berthélemy agreed to undertake a compilation of the location of types of European species of Ephemeroptera. Others attending and participating in these meetings or other discussions were Fred P. Ide, D. E. Kimmins, Joachim Illies, W. Steffan, Josette Fontaine, Anthony Downes, Philip Corbet, C. M. H. Harrisson and M. T. Gillies.

* * * * *

Types of Pinned Ephemeroptera Deposited at the Natural History Museum of Paris

Prof. Dr. G. Berthélemy, Toulouse, France, has compiled the following list and has asked that it be included in EATONIA. Prof. Dr. Berthélemy points out that this list is based entirely on the reading of labels, often handwritten, on the pinned specimens. No bibliographic or orthographic verification of the names or localities has been undertaken.

Specimens of L. Navas labeled "Type."

Potamanthus subcostalis, Bombay
Noya radai, Pérou
Noyopsis fusca, Costa Rica
Anagenesia decaryi, Madagascar
A. chaperi, Borneo
Thraulodes irretitus Costa Rica
T. humeralis
Trichorythrus poincinsi
Chromarcys magnifica
Thraulus sallei, Mexique
Oligoneuriella grandeva
Cloeon cambouei, Madagascar
C. punctatum, Tchad

C. gonzalezi, Paraguay
C. grisoli, Venezuela
C. apicatum, Nouvelles Indes
C. durani, Madagascar
C. coomani, Tonkin
B. sinuosus, Costa Rica
Baetis vaillanti, Chine occidentale
Neobaetis paulinus, Costa Rica
Callibaetis radiatus, Santa Fé, Argentine
C. sobrius, S. Pablo, Brésil
C. lineatus, Chile
Teloganodes dentata, Inde
Heptagenia davidica, Thibet
Caenis chilensis, Chili
Ephemeria axillaris, Kouy-Tchéou
E. nimia, Ethiopie
Ecdyonurus aetheneus, Kenya
E. davidi, Kiang-Si
E. pichoni, Chekiang
E. bifasciatus, Japon
E. annulifer, Tonkin
Aderophlebia sinuata, Zambèze
Siphuriscus davidi, Se-Tchouan
Rhoenanthus ferrugineus, Tonkin
R. magnificus, Chine
Hexagenia chaperi, Borneo

Species described and determined by L. Navas, but not labeled "Type."

Campsurus zottai, Chaco de Santa Fé
C. holmbergi, Gran Chaco
Anagenesia leucoptera, Tonkin
Povilla adusta, Tchad
Thraulus lorensis, Buenos Aires
Lachlania lucida, Guatemala
Pseudocloeon weiseri, Bolson
Catamarca
Callibaetis jocosus, Bresil
C. zonalis, Brésil
C. apertus, Asuncion
C. stictogaster, La Plata
Rhithrogena catalaunica,
Sobvadiel (Zaragosse) 7 VIII 32 19
Ephemeria kuwayami, Japon
Eatonica schoutedeni, Zambèze

E A T O N I A

A Newsletter for Ephemeropterists
Prepared and Multilithed by
Dept. Zoology and Entomology
University of Utah

George F. Edmunds, Jr. - - Editor
William L. Peters - - Asst. Editor

- - - - -
Types of species not authored by
Navas.

Ephemerata purpurata Ulmer-
(Kouy-Tchéou)
Thraulus vitripennis Blanchard

* * * * *

Since the death of Dr. Georg Ulmer, his entire personal collection of mayflies is now deposited in the Zoologisches Staatsinstitut und Zoologisches Museum in Hamburg. This collection contains many types of the species described by Dr. Ulmer. Also contained in this collection are types of species described by other workers and specimens of hard to obtain species. Weidner (1964) listed the species in Dr. Ulmer's personal collection of mayflies. Also many types of mayfly species described by Dr. Ulmer and deposited in the museum in Hamburg previous to Dr. Ulmer's death are listed in Weidner (1962). Full citations of Weidner (1962) and (1964) are given in the Recent Ephemerop-tera Literature section of this edition of EATONIA. Persons wishing information concerning Dr. Ulmer's mayfly collection should write to Professor Dr. Herbert Weidner, Zoologisches Staatsinstitut und Zoologisches Museum, Von-Melle-Park 10, 2000 Hamburg 13, Germany (West).

* * * * *

During June and July, 1965, Dr. Vladimír Landa, Prague, Czechoslovakia, traveled in Canada and the United States to make studies on the internal anatomy of Ephemeroptera. He visited Dr. F. P. Ide, Toronto, Ontario, Dr. George F. Edmunds, Jr. and others at the Laboratory of Aquatic Zoology, Salt Lake City, and Dr. Lewis Berner, Gainesville, Florida, to make such studies. Also Dr. Landa met with other entomologists concerning other current research at the Institute of Entomology in Czechoslovakia.

* * * * *

New Addresses of Ephemeropterists

Compiled by
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and
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Recent Ephemeroptera Literature

Compiled by William L. Peters
and
George F. Edmunds, Jr.

Agnew, J. D.
-1953. New South African records of imperfectly known
Baetidae (Ephem.). *Hydrobiol.*, 22(1-2):41-46, 1 fig.
-1955. A note on the fauna of the lower Orange River.
S. Afr. J. Sci., 61(3):126-128, 1 fig., 2 tables.

Allen, R. K., & G. F. Edmunds, Jr.
-1955. A revision of the genus *Ephemerella* (Ephemeroptera, Ephemerellidae) VIII. The subgenus *Ephemerella* in North America. *Misc. Publ. Ent. Soc. Amer.*, 4(6):243-282, 81 figs., 2 tables.

Ando, H., & I. Kawana
-1956. Embryology of may-fly (*Ephemera strigata* Eaton)
as studied by external observation. *Kontyu*, 24:224-232,
2 plates.

Corbet, P. S.
-1954. Temporal patterns of emergence in aquatic insects.
Canad. Ent., 96(1-2):264-279, 7 figs.

Degrane, C.
-1955. Nouveaux cas de parthénogénèse chez les Ephéméroptères. *C. R. Acad. Sci.*, 241:1860-1861.
-1955. Étude morphologique de la nymphe et de l'imago d'*Ephemerella glaucops* Pictet. *Trav. Lab. Pisc. Grenoble*, 42:19-33, 3 plates.
-1955. Étude comparative des larves et adultes de *Siphlonurus aestivulus* Etn. et *Siphlonurus lacustris* Etn. (Ephéméroptères). *Trav. Lab. Pisc. Grenoble*, 42:35-45, 2 plates.
-1956. Sur les micropyles des œufs des Ephéméroptères. *Bull. Soc. Ent. Fr.*, 61:146-148, 3 figs.
-1956. Sur l'éclosion des larves des Ephéméroptères. *C. R. Acad. Sci.*, 242:2054-2056.
-1956. La parthénogénèse facultative deutérotoque de *Centroptilum luteolum* (Müll.) (Ephéméroptère). *C. R. Acad. Sci.*, 243:201-203.
-1957. Description de l'adulte et de la nymphe de *Baetis dorrieri* sp. n. (Ephemeroptera-Baetidae). *Trav. Lab. Pisc. Grenoble*, 49:17-31, 2 plates.
-1959. L'olovularviparité de *Cloeon dipterum* (L.) (Ephemeroptera-Baetidae). *Bull. Soc. Ent. Fr.*, 64:94-100.
-1960. Recherches sur la reproduction des Ephéméroptères. *Trav. Lab. Pisc. Grenoble*, 51:7-19, 24 plates.
-1961. Processus cinétique de l'éclosion chez les Ephéméroptères. *Trav. Lab. Pisc. Grenoble*, 53:1-6, 1 plate.
-1961. Les premiers stades larvaires de l'Ephéméroptère *Oligoneuriella rhinana* (Imh.). *Trav. Lab. Pisc. Grenoble*, 53:59-67, 2 plates.

Degrane, C., & R. Dorier
-1957. L'œuf et la larve néonata de *Rhithrogena semi-tincta* (Pictet) (Ephéméroptère). *Trav. Lab. Pisc. Grenoble*, 49:9-16, 1 plate.

Demoulin, G.
-1964. Mission H. Löffler en Afrique orientale Ephemeroptera. *Bull. Ann. Soc. Roy. Ent. Belg.*, 100(21):279-294, 10 figs.

- 1964. Mission H. G. Amsel en Afghanistan (1956) Ephemeroptera. Bull. Ann. Soc. Roy. Ent. Belg., 100(28):351-363, 6 figs.
- 1964. Ephemeroptera. Parc National de l'Umpemba, -Mission G. F. De Witte, 68(2):13-27, 6 figs.
- Dorier, A., & C. Degrange
- 1955. Stations nouvelles de Forleya, d'Oligoneuriella et de Siphlonurus (Ephemeroptères) dans le quart Sud-Est de la France. Trav. Lab. Pisc. Grenoble, 42:47-51.
- Edmunds, G. F., Jr., & R. K. Allen
- 1964. The Rocky Mountain species of Epeorus (Iron) Eaton (Ephemeroptera: Heptageniidae). Jour. Kan. Ent. Soc., 37(4):275-288, 12 figs.
- Eriksen, C. H.
- 1964. Evidence of a spring rise in metabolic rate in the burrowing mayfly Ephemerella simulans Walker. Hydrobiol., 23(3-4):506-510, 1 table.
- 1964. The influence of respiration and substrate upon the distribution of burrowing mayfly naïads. Verh. Internat. Verein. Limnol., 15:903-911, 6 figs., 2 tables.
- Flattum, R.
- 1963. Apparent effect of refrigeration on the rate of embryonic development of mayfly (Hexagenia limbata) eggs. Proc. Minn. Acad. Sci., 31(1):82-83, 2 figs.
- Fontaine, J.
- 1964. Ecdyonurus wautieri sp. n., espèce nouvelle d'Heptageniidae rencontrée dans la région Lyonnaise (Ephéméroptère). Bull. Soc. Linn. Lyon, 33(3):84-91, 3 plates.
- 1964. Commensalisme et parasitisme chez les larves d'Ephemeroptères. Bull. Soc. Linn. Lyon, 33(5):163-174, 2 plates.
- Fremling, C. R.
- 1964. Mayfly distribution indicates water quality on the Upper Mississippi River. Science, 146(3648): 1164-1166, 2 figs.
- 1964. Rhythmic Hexagenia mayfly emergences and the environmental factors which influence them. Verh. Internat. Verein. Limnol., 15:912-916, 2 figs.
- Froehlich, C. G.
- 1964. The feeding apparatus of the nymph of Arthroplea congener Bengtsson (Ephemeroptera). Opusc. Ent., 29(3):188-208, 15 figs.
- Gauthier, M.
- 1961. Un nouveau Trichomycte rameux parasite des larves de Baetis pumilus (Burm.). Trav. Lab. Pisc. Grenoble, 53:225-227, 2 figs.
- Hartland-Rowe, R.
- 1964. Factors influencing the life-histories of some stream insects in Alberta. Verh. Internat. Verein. Limnol., 15:917-925, 7 figs.
- Illies, J.
- 1964. Georg Ulmer. Sein Leben und Werk 1877-1963. Arch. Hydrobiol., 60(1):115-129.
- 1964. The invertebrate fauna of the Huallaga, a Peruvian tributary of the Amazon river, from the sources down to Lingo Maria. Verh. Internat. Verein. Limnol., 15: 1077-1083, 4 figs., 2 tables.
- Keffermüller, M.
- 1963. Mass flight of Behningia lestagei Motas et Bacesco, (Ephemeroptera) at Ustrówko on the Warta River. Badania Fizjograficzne Nad Polską Zachodnią, 12:323-325,
- 1964. Supplementary investigations into Ephemeroptera of the region of Great Poland. Badania Fizjograficzne Nad Polską Zachodnią, 14:69-86, 6 tables.
- Kimmins, D. E.
- 1963. Dr. phil. h. c. GEORG ULMER 5.3.1877-15.1.1963. Int. Revue Ges. Hydrobiol., 48(3):523-524.
- 1964. Baetis (Leach, 1815) (Insecta, Ephemeroptera): Proposed designation of a type-species under the plenary powers. Z.N. (S). 1620. Bull. Zool. Nomencl., 21(2): 146-147.
- Macan, T. I.
- 1964. Emergence traps and the investigation of stream faunas. Riv. Idrobiol., 3(1):75-92, 3 figs., 5 tables.
- Müller-Liebenau, I.
- 1964. Ephemeropteren-Literatur deutscher Autoren. Gewässer und Abwässer, 37:58-78.
- 1965. Revision der von Simon Bengtsson aufgestellten Baetis-Arten (Ephemeroptera). Opusc. Ent., 30(1-2):79-123, 17 figs.
- Peters, W. L., & G. F. Edmunds, Jr.
- 1964. A revision of the generic classification of the Ethiopian Leptophlebiidae (Ephemeroptera). Trans. R. Ent. Soc. Lond., 116(10):225-253, 141 figs.
- Peters, W. L., M. I. Gillies, & G. F. Edmunds, Jr.
- 1964. Two new genera of mayflies from the Ethiopian and Oriental Regions (Ephemeroptera: Leptophlebiidae). Proc. R. Ent. Soc. Lond. (B), 33(7-8):117-124, 38 figs.
- Russey, B.
- 1964. Hydobiologische Untersuchungen der Arda und Einiger ihrer Nebenflüsse. Bull. Inst. Zool. Musée, Acad. Bulgare Sci., 17:5-49, 15 figs., 5 tables.
- Sowa, R.
- 1965. Ecological characteristics of the bottom fauna of the Wielka Puszczka stream. Acta Hydrobiol., 7(1):61-92, 12 figs., 9 tables.
- Taylor, R. L., & A. G. Richards
- 1963. The subimaginal cuticle of the mayfly Callibaetis sp. (Ephemeroptera). Ann. Ent. Soc. Amer., 56(4):418-426, 1 fig., 1 table.
- Traver, J. R.
- 1963. Uruguayan mayflies Family Leptophlebiidae: Part IV. Rev. Soc. Uruguayana Ent., 5:25-31.
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-1964. Die entomologischen sammlungen des Zoologischen Staatsinstituts und Zoologischen Museums Hamburg V. Teil Insecta II. Mitt. Hamburg. Zool. Mus. Inst., 61:123-244, 1 picture.

Note: This is a facsimile copy of the original edition and produced on January 1, 1970.

