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George F. Edmunds Jr.

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EATONIA

No. 3

University of Utah, Salt Lake City

November 5, 1956

A Bibliography of Ephemeroptera Papers of Dr. O. A. Tshernova. Compiled by

Dr. G. Demoulin

1928.- Material k poznaniu podenok basseina r. Oki. - Beitrag zur Kenntnis der Ephemeropteren des Oka-Bassins. (Arb. Biolog. Oka Station, Myrom, V, 2-3, pp. 113-115, 2 figs.) (in Russian and German).

1934.- Novii vid i rod Shiroko rasprostranennoi podenki severnoi polovini SSSR. - Eine neue weitverbreitete Ephemeropterengattung aus nordlichen Gebieten der UdSSR. (Dokladi Akademii Nauk SSSR, 1934, IV, 4, pp. 240-243, 2 figs.) (in Russian and German).

1936.- Podenki (Ephemeroptera) moskovskoi oblasti. - Die Eintagsfliegen (Ephemeroptera) des Kreises von Moskau. (Trudi Zoologitskogo Instituta Akademii Nauk SSSR, III, pp. 89-95.) (in Russian).

1937.- Podenki Dnepra. - Die Eintagsfliegen des Dnjepr-Flusses. (Trudi Hidrobiol. Stanstshii Akademii Nauk SSSR, 15, pp. 3-23, 9 figs.) (in Russian and German).

1938. - Novoe semeistvo podenok (Ephemeroptera). - Sur une nouvelle famille Ephemeroptera. (Izvestia Akademii Nauk SSSR, Otdelenie Matematicheskikh i estestvennykh nauk, Serija Biologitsh., 1, pp. 129-137, 4 figs.) (in Russian and French).

1938. K poznaniu podenok (Ephemeroptera) vostotshnogo zakavkazja. Zur Kenntnis der Ephemeropteren Ost-Transkaukasiens. (Trudi azerba. Filiala Akademii Nauk SSSR, pr. 55-64, 6 figs.) (in Russian and German).

1941.- Fauna podenok evropeiskogo severa SSSR. - Die Ephemeroiden-Fauna des Nordens des europaischen Teiles der UdSSR. (Zoologitskii Jurnal, XX, 2, pp. 213-235.) (in Russian, German summary).

1944.- (Russian title?) - The biological peculiarities of the nymphs of Ephemeroptera on which sterlets of the Dvina feed. (Zoologitskii Jurnal, XXIII, 5, pp. 216-220.) (in Russian, English summary).

1948.- O novom rode i vide podenok iz basseina Amura (Ephemeroptera, Ametropodidae). (Dokladi Akademii Nauk SSSR, novja serija, IX, 8, pp. 1453-1455, 1 (4) fig.). (in Russian. - New genus and species of Mayfly from the Amur-basin).

1949. K poznaniu roda Palingenia Burm. (Ephemeroptera, Palingeniidae). (Entomologitsheskoe Obozrenie, XXX, 3-4, pp. 303-307, 7 figs.) (in Russian. - On the knowledge of the Genus Palingenia Ephemeroptera, Palingeniidae).

1949.- Nymphi podenok pritokov Teletshkogo ozyera i r. Bii. (Trudi Zoologitskogo Instituta Akademii Nauk SSSR, VII, pp. 139-158, 13 (64 figs.). (in Russian. - Mayflies nymphs from the Lake Teletskoie and river Bija tributaries).

1952. Podenki (Ephemeroptera) basseina reki Amura i prilejashchih vod i ich rol v pitaniu amurskich rib. (Trudi Amurskoi ichtiologitsheskoi ekspeditsii 1945-1949 gg., III, pp. 229-360, 21 pls (141 figs.)). (in Russian. - Mayflies from the river Amur and neighbouring waters, and their part in the nutrition of the Amur-fishes.)

The Ordinal Name of the Mayflies by

George F. Edmunds, Jr.

The variety of ordinal names for the mayflies is a result of two principle causes: (1) some workers have used the rule of priorty while others have considered usage more important in determining the ordinal name, and (2) those workers using priority have had difference of opinion as to which name was prior. Consideration of ordinal names by the International Commission of Zoological Nomenclature in 1953 has established that usage shall be considered as more important than priority in determining ordinal names. This is fortunate for

from a preliminary examination of available ordinal names for the mayflies, it would appear that none of the commonly used names are prior. It has been assumed by some that Ephemerida is prior and that it dates from Leach, 1815. This is definitely not true, the name Ephemerida being used by Leach to designate one of two families in the tribe Ephemerides.

In both the specialized literature and textbooks the name Ephemeroptera is most commonly used; the name Ephemerida has had considerable usage, but almost wholly in the U.S., resulting from its use in Comstock's "Introduction to Entomology." The name Plectoptera has been used principally in works on the fossil forms. Its most recent usage has been by Demoulin (1954) who has then shifted the name Ephemeroptera to the status of a superorder including the Protophemeridae. The name Agnatha also has been used, but most of the other names have very limited usage.

The readers of Eatonia constitute the known workers in the field and should take the responsibility of recommending an ordinal name to the I.C.Z.N. To prevent future confusion on the nomenclature of higher categories the Commission will make an official list of such names. What is your choice of name for the order, considering that usage is more important than priority? The editor takes the stand that the name Ephemeroptera (as an ordinal name - not superordinal) has the greatest usage and believes that of the used names Agnatha is prior. Our choice is Ephemeroptera. Please let us know your opinion.

Recent Literature, II.

Compiled by

George F. Edmunds, Jr., and R.K. Allen

Berner, L.

1955. The southeastern species of Baetisca Quart. Jour. Florida Acad. Sci., 18:1-19, 23 figs.

1955. A new species of Paraleptophlebia from the Southeast (Ephemeroptera, Leptophlebiidae). Proc. Ent. Soc. Wash., 57:245-247, 2 figs.

1956. The genus Neoephemera in North

America (Ephemeroptera: Neoephemeridae). Ann. Ent. Soc. Amer., 49:33-42, 26 figs.

Bertrand, H. and M.L. Verrier

1954. Contribution a l' écologie des Epheméroptères des Pyrénées Espagnoles Bull. Biol. France Belg., 88:146-153. Biancheri, E.

1955. Una nova specie di Habrophlebia e ridecrizione di H. umbratilis Eaton, 1883 (Ephemeroptera). Mem. Soc. Ent. Ital., 33:155-166, 31 figs.

Britt, N. W.

1955. Stratification in western Lake Erie in summer of 1953: Effects on the Hexagenia (Ephemeroptera) population. Ecology, 36:239-244, 2 figs.

Day, W. C.

1955. New genera of mayflies from California (Ephemeroptera). Pan-Pac. Ent., 31:121-137, 27 figs.

Degrange, Ch.

1955. Sur la morphologie de Prosopistoma foliaceum Fourcier. C. R. Acad. Sci., 240: 1668.

Demoulin, G.

1954. Le système trachéobranchial des Tricorythafer (Ephéméroptères Tricorythidae). Bull. Ann. Soc. Roy. Ent. Belg., 90: 293-295.

1954. Les Ephéméroptères Jurassiques du Sinkiang. Bull. Ann. Soc. Ent. Belg., 99: 322-326, 2 figs.

1955. Recherches sur les Ephémères du Jurassique bavarois. Ibid., 91: 33.

1955. Mission E. Janssens et R. Tollet en Grèce (Juillet-Aout 1953) 4^e note, Ephemeroptera. Ibid., 91: 38-44, 3 figs.

1955. Ephéméroptères neotropicaux. Une synonymie probable: Atalophlebia axillata Navas=Massartella brieni (Lestage). Ibid., 91: 59-60.

1955. Un Elatéride prédateur d'Ephéméroptères. Ibid., 91: 163.

1955. A propos de la position ventrale des trachéobranches chez la larve des Behningiidae (Ephemeroptera). Ibid., 91: 207-208.

1955. A propos des affinités systématiques des Prosopistomatidae (Ephemeroptera). Ibid., 91: 209-213.

1955. Melanemerella brasiliiana Ulmer, Ephéméroellide ou Tricorythide? (Ephemeroptera). Ibid., 91: 214-216.

E A T O N I A

A Newsletter for Ephemeropterists
Prepared and Mimeographed by

The Division of Biology, University of Utah
George F. Edmunds, Jr., ----- Editor

(Recent Literature, Continued)

1955. Note sur deux nouveaux genres de Leptophlebiidae d'Australie. (Ephemeroptera). Ibid., 91: 227-229.

1955. Sur une larve siphlonuridienne d'Ephémère fossile du Brésil. Ibid., 91: 271.

1955. Revision de quelques Ephéméroptères décrits du Congo belge par L. Navas. I. Ibid., 91: 281-290, 6 figs.

1955. Afronemera gen. nov., Ephemeridae de la faune éthiopienne. (Ephemeroptera). Ibid., 91: 291-295, 1 fig.

1955. Quelques remarques sur les composantes de la famille Ametropodidae (Ephemeroptera). Ibid., 91: 342-346.

1955. Remarques critiques sur Cronicus anomalous (Pictet), Ephéméroptère de l'ambre Oligocène de la Baltique. Bull. Inst. Roy. Sci. Nat. Belg., 31(4):1-4.

1955. Les Brachycercidae Australiens. Le genre Tasmanocoenus Lestage. Ibid., 31(10):1-7, 1 fig.

1955. Atalophlebiodes inequalis sp. nov. Ephéméroptère Leptophlebiidae nouveau de Madagascar. Ibid., 31: 1-4, 2 figs.

1955. Une mission biologique Belge au Brésil. Ephéméroptères. Bull. Inst.

Roy. Sci. Nat. Belg., 31(20):1-32, 20 figs.

1955. Ephéméroptères nouveaux ou rares du Chili. Ibid., 31(22):1-15, 5 figs.

1955. Brèves remarques sur le genre Metamonioides Eton (Ephéméroptères Siphlonuridae). Ibid., 31(24):1-3.

1955. Contribution à l'étude morphologique, systématique et phylogénétique des Ephéméroptères Jurassiques d'Europe Centrale. I. Ibid., 31(39):1-13, 1 pl.

1955. Contribution à l'étude morphologique, systématique et phylogénétique des Ephéméroptères Jurassiques d'Europe Centrale. II. Paedephemeridae. Ibid., 31(55):1-10, 1 pl.

1955. Ephéméroptères nouveaux ou rares du Chili. II. Ibid., 31(58):1-16, 3 figs.

1955. Ephéméroptères nouveaux ou rares du Chili. III. Ibid., 31(73):1-30, 14 figs.

1955. Nathanelia gen. nov. Leptophlebiidae Diptère de l'Inde. (Ephemeroptera). Ibid., 31(77):1-4, 1 fig.

1955. Brève note sur la position systématique de Siphluriscus chinensis Ulmer (1920) (Ephemeroptera). Ibid., 31(80):1-2, 1 fig.

Edmunds, G. F., Jr.

1955. "Ephemeroptera" in Systematic Entomology. A Century of Progress in the Natural Sciences. Calif. Acad. Sci., San Francisco.

1956. Exuviation of subimaginal Ephemeroptera in flight. Ent. News. 67: 91-93.

Edmunds, G. F., L. T. Nielsen, and J. R. Larsen

1956. The life history of Ephoron album (Say) (Ephemeroptera: Polymitarcidae)

Wasmann Jour. Biol., 14: 145-153, 2 figs.

Fontaine, J.

1955. Les formes ailees de Protopistoma foliaceum Fourcroy (Ephéméroptère). Bull. Men. Soc. Linn. Lyon, 24: 60-65, 2 pls.

Grandi, M.

1955. Contributi allo studio degli Efemeroidei Italiani XVIII. Fusion di due generi (Habrophlebia Etn. E Habroleptoidea Schoen.) della famiglia Leptophlebiidae. Boll. Ist. Ent. Universita Bologna, 21: 1-8.

1955. Contributo allo studio degli Efemeroidei Italiani XIX. I. gonodotti femminili degli Efemeroidei, loro compartoamento e loro sbocco. Studio anatomico comparato. Ibid., 21: 9-42, 17 figs.

Haberman, H. M.

1953. Materialy po faune podenok (Ephemeroptera) Estonskoi SSR (Materials on the fauna of Ephemeroptera of Estonia) Ent. Obozrenie, 33: 214-225, Map. Illus.

Hartland-Rowe, R.

1953. Feeding mechanism of an Ephemeropteran nymph. Nature, 172: 1109-1111, 1 fig.

1955. Lunar rhythm in the emergence of an Ephemeropteran. Nature, 176: 657.

Ikonomov, P.

1953. Ephemeroptera der Umgebung des Prespa-Sees. Ann. Fac. Philos. l'Univ. Skopje, Sec. Sci. Nat., 6(7): 1-29, 4 maps..

1954. Über das weibchen von Iron jugoslavicus Samal. Fragmenta Balcanica, 1: 1-6, 3 figs.

1954. Über eine neue Heptagenia (Ephem.) aus Mazedonien. Fragmenta Balcanica, 1: 57-68, 4 figs.

1954. Über eine neue larve der Gattung *Baetis* (Ephem.) aus Mazedonien. *Ibid.*, 1: 95-105, 4 figs.
- Kimmings, D. E.
1955. Ephemeroptera from Nyassaland, with descriptions of three new species and some interesting nymphal forms. *Ann. Mag. Nat. Hist., Ser. 12*, 8: 859-880, 13 figs.
1956. New Species of Ephemeroptera from Uganda. *Bull. Brit. Mus. Nat. Hist.*, 4: 69-87, 31 figs.
- Lafon, J.
1952. Note sur *Prosopistoma foliaceum* Fourc. (Ephéméroptère). *Bull. Soc. Zool. France*, 77: 425-436, 4 figs, 2 pls.
1953. Recherches sur la faune aquatique littorale du Rhône à Lyon. *Bull. Men. Soc. Linn. Lyon.*, 22: 36-46, 3 figs.
- Lyman, F. E.
1955. Egg bursters in the genus *Hexagenia*. *Ent. News*, 66: 253-255.
- Macan, T. T.
1955. A key to the nymphs of British Ephemeroptera. *Salmon and Trout Mag.*, 59-70, 12 figs.
1955. A key to the nymphs of the British species of the family Caenidae (Ephem.). *Ent. Gazette*, 6: 127-142, 8 figs.
- Matsuda, R.
1956. Morphology of the thoracic exoskeleton and musculature of a mayfly, *Siphlonurus columbianus* McDunnough (Siphlonuridae, Ephemeroptera), a contribution to the sub-coxal theory of the insect thorax. *Jour. Kans. Ent. Soc.* 29: 92-113, 8 plates, 1 table.
- Riek, E. F.
1955. Revision of the Australian mayflies (Ephemeroptera). *Australian Jour. Zool.*, 3: 266-280, 2 plates.
- Thew, T. B.
1956. A list of the mayflies of Iowa. *Mus. Quart. Davenport Pub. Mus.*, 1:1-6, 2 figs.
- Traver, J. R.
1956. A new genus of Neotropical Mayflies. (Ephemeroptera, Leptophlebiidae). *Proc. Ent. Soc. Wash.*, 58: 1-13, 18 figs.
- Ueno, M.
1955. Mayfly Nymphs. Fauna and flora of Nepal Himalaya. Scientific results of the Japanese Expeditions to Nepal Himalaya. 1952-1953. Vol. I.: pp. 301-316, 110 figs.
- Van Bruggen, A. C.
1955. De terminologie van de aanhangsels van het abdomen bij de Ephemeroptera. *Ent. Berichten*, 15: 310-311.
- Verrier, M. L.
1954. Contribution a l'étude de la faune d'eau douce de corse. *Ephéméroptères. Vie et Milieu*, 5: 280-290.
1955. La répartition en altitude des Ephémères de la faune de France. *C. R. Acad. Sci., Paris*, 240: 686-687.
1955. Biogeographie des larves des Ephémères de la faune française. *Trav. Assoc. Internat. Limnologie theorie appl.*, 12: 598-603.
1956. Biologie des Ephémères. *Coll. Armand Colin*, No. 306: 11-216, 42 figs.
- New Addresses
- Lucie Arvy
Laboratoire d'Anatomie et d'Histologie Comparées
Université de Paris (Sorbonne)
1, Rue Victor Cousin
Paris, France
- Richard H. Daggy
Preventive Medicine Coordinator
Arabian American Oil Co.,
Dharan, Saudi Arabia
- Mme. Josette (Lafon) Fontaine
Laboratoire de Zoologie
Faculté de Sciences de Lyon
16, Quai Claude-Bernard
Lyon, France
- Dr. F. Earle Lyman
Chief, Extramural Programs
National Institute of Dental Research
National Institutes of Health
Bethesda 14, Md.
- Bill Peters
3219 Everett
Kansas City 2, Kansas
(Kansas mayflies)
- Univ.-Doz. Dr. Gertrud Pleskot
1. Zoologisches Institut, Universität Vienna I, Austria
- Ing. Ernst Pomeisl
Einwangstrasse 23,
Vienna 14, Austria
- Daniel G. Reinhold
Pennsylvania Fish Commission
644 West Main Street
Lock Haven, Pennsylvania

H. R. Smissaert
Lage Bergweg 39
Bekbergen, Holland

Univ.-Doz. Dr. Anneliese Strenger
1. Zoologisches Institut, Universität
Vienna I, Austria

Thomas B. Thew
Dept. of Entomology
Davenport Public Museum
704 Brady Street
Davenport, Iowa

Dr. O. A. Tshernova
Cathedra d'Entomologie
Universite d'Etat de Moscou
Leninskije Gory
Moscou W-234

^{ss}
Доктор О. А. ЧЕРНОВА.
Кафедра Энтомологии
Московского Тугоударственного
Университета
Ленинские Горы:
МОСКОВА В-234
СССР

Dr. M. Zelinka
Výzk ústav vodohospodářský
Dominikánské 2
Brno, Czechoslovakia

News and Notes

A recent paper by Van Bruggen (see bibliography) seems worthy of consideration by all Ephemeropterists, for that reason we give a free translation of the summary of the paper.

"To create a uniform nomenclature for the appendages of the abdomen of Ephemeroptera, the author proposes to reserve the name cerci (cerques) for the lateral appendages and the term filum terminale (filament terminal, terminal filament, Terminalfilum) for the median appendage. He proposes also to employ the name fila caudalia (filament caudaux, caudal filaments) for the collective appendages."

Mr. R. K. Allen is undertaking a study of the Ephemerellidae with particular reference to the North American species. He is in desire of Ephemerellidae from all parts of the world and is willing to exchange Ephemeroptera from western North America for such specimens.

The following note is contributed by Dr. M. A. Lieftinck:

You may be interested to learn that the immature stage of Prosopistoma has been discovered in CEYLON and NEW GUINEA. From Ceylon it was reported by the then Assistant in Systematic Entomology, G. M. Henry, at the Colombo Museum, as early as in 1929. The very little known record was published in the Administration Report of the Director of the Colombo Museum for 1928 (Publ. Sept. 1929, page F9) and runs as follows: "Prosopistoma sp. - A single larva of this remarkable May-fly was taken at Ougaldowa estate. The genus does not appear to be recorded from Ceylon." I am not aware of Mr. Henry having yet published a description of his insect. From New Guinea I possess a single larva of an apparently undescribed species, which was collected during the 3rd Archbold Expedition to the Snow Mountain region, in 1938, by the late Dr. L. J. Toxopeus.

The Biologie des Ephemerides by M. L. Verrier is a welcome addition to the literature on the Ephemeroptera. The seven chapters deal with the description of the Ephemeroptera, the life of the mayflies, adaptation, the usefulness of mayflies, and other problems. To the person unfamiliar with the many papers by Dr. Verrier, there is much that is original in this book especially in the section on nymphal ecology. The book shows a fine grasp of the European literature, but familiarity with only the larger non-European works.

Dr. Verrier died in April of this year in Paris. Fortunately, this book summarizing most of her work will stand as a reminder of her contribution to the knowledge of the Ephemeroptera. -

G. F. Edmunds, Jr.

Many Ephemeropterists responded to Dr. Lyman's questionnaire concerning preservation of mayflies. The presentation of the report on this survey has been delayed by Dr. Lyman's change in employment, but it is hoped that the report will be available soon.

Although no papers were given on Ephemeroptera at the Tenth International Congress of Entomology at Montreal, Canada in August, at least four Ephemeropterists were in attendance. They were B.D. Burks, F.P. Ide, G.F. Edmunds, Jr., and Bill Peters.

The Aquatic Insects of California, edited by R.L. Usinger (University of California Press, Berkeley, \$10.00) includes a section on the Ephemeroptera by W.C. Day.

It has keys to all North American genera and the species for California. The book has not been seen, but only the reference to its publication.

Notes of interest, comments, news items, local lists, research requests, and other items are desired for inclusion in future issues of Eatonia. Eatonia will continue to be issued whenever sufficient material is available and the editor finds time to assemble the material.

George F. Edmunds, Jr. would like to arrange exchange of North American species (preserved in alcohol) for nymphs and/or adults of any genera or species not found in North America.

E A T O N I A

Division of Biological Sciences
University of Utah
Salt Lake City 12, Utah

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