ADDITIONS AND CORRECTIONS TO EPHEMEROPTERA SPECIES OF NORTH AMERICA AND INDEX TO THEIR COMPLETE NOMENCLATURE

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ABSTRACT: Heretofore unpublished additions, deletions, and changes to the main checklist of valid North American Ephemeroptera species are provided as are corrections and additions to the nomenclatural index of all names historically associated with them. Index modifications include the addition of 44 new entries and corrections to 21 previous entries.

Subsequent to the appearance of "The Ephemeroptera Species of North America and Index to Their Complete Nomenclature" (McCafferty 1996), certain omissions and minor errors have been discovered. These emendations have come to light primarily as a result of preparing the database of Nearctic Ephemeroptera reflected in McCafferty (1997a), which is strictly predicated on original orthography of species, and of close scrutiny of the literature associated with the Canadian fauna currently under study. Data revealed specific synonyms that had not appeared previously as well as additional name usage (spelling and combinations) found for certain species. In order to maintain the highest degree of utility of the North American index to mayfly species nomenclature (McCafferty 1996), these pertinent modifications are presented below. Additional recent significant changes and corrections to the list and index not covered below can be found respectively in the revision of Ameletus by Zlotoy (1996) and adjustments to names by McCafferty (1997b); however, for all changes published since McCafferty (1996), particularly with regard to occasional new species and synonyms being published, the regularly updated "The Mayflies of North America" found at the Mayfly Central World Wide Web cite <http://www.entm.purdue.edu/entomology/mayfly/mayfly.html> should be consulted. Additions and corrections are given below both for the main numerically sequenced checklist of species and for the alphabetical index. In the index, species names appear in italics only for the current valid form of the name as per the McCafferty (1996) format.

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MODIFICATIONS TO THE NUMERICAL CHECKLIST

Delete
003. Choroterpes ferruginea Traver, 1934
004. Choroterpes fuscaSpieth, 1938
005. Choroterpes hubbelli Berner, 1946
132. Brachycercus floridicola Soldán, 1986
137. Brachycercus pini Soldán, 1986

Corrections
016. Leptophlebia bradley Needham, 1932
363. Baetis moffatti Dodds, 1923
574. Heptagenia adaequta McDunnough, 1924
636. Rhithrogena notialis Allen & Cohen, 1977
671. Stenonema terminatum terminatum
(Walsh), 1862

MODIFICATIONS TO THE ALPHABETICAL INDEX

Additions
Baetis curiosus (McDunnough), 1923 - 432
Baetis moffatti Dodds, 1923 - 363
Baetis pallidula McDunnough, 1924 - 357
Baetis persecuta McDunnough, 1939 - 367
Bistaturus cupidus (Say), 1823 - 018
Bistaturus grandis Traver, 1932 - 019
Brachycercus pallidus (Ide), 1930 - 133
Callibaetis tessellatus (Hagen), 1861 - 399
Campsurus manitobensis Ide, 1941 - 092
Cloeon chlorops McDunnough, 1923 - 355
Cloeon punctiventris McDunnough, 1923 - 371
Cloeon virilis McDunnough, 1923 - 378
Ecdyonurus fuscus (Clemens), 1913 - 672
Ecdyonurus petersoni Lestage, 1930 - 542
Ecdyonurus werestschagini (Tshernova), 1952 - 619
Ecdyurus hyalinus Esben-Petersen, 1916 - 542
Epeorus undulatus Banks, 1924 - 642
Ephemera fuscata (Walker), 1853 - 179
Eurycaenis pallida Ide, 1930 - 133
Heptagenia abnorme Tshernova, 1949 - 542
Heptagenia abnormis Tshernova, 1949 - 542
Heptagenia adequata McDunnough, 1924 - 574
Heptagenia luridipennis (Burmeister), 1839 - misidentification of 667
Heptagenia verticus (Say), 1839 - 085
Heptagenia werestschagini Tshernova, 1952 - 619
Iron petulans Seemann, 1927 - 635
Isonychia annulata Traver, 1932 - 515
Isonychia aures Traver, 1932-524
Isonychia thalia Traver, 1934 - 515
Leptophlebia concinna (Walker), 1853 - 018
Leptophlebia hebes (Walker), 1853 - 018
Leptophlebia ignava (Hagen), 1861 - 018
Leptophlebia pallipes (Walker), 1853 - 018
Oreianthus sp. 1 Traver, 1937 - 126
Paraleptophlebia compar Traver, 1934 - 033
Paraleptophlebia pallipes (Hagen), 1875 - 049
Potamantus rufus Argo, 1927 - 082
Pseudocloeon virilis (McDunnough), 1923 - 378
Rhithrogena fusca (Walker), 1853 - 634
Rhithrogena imanica Bajkova, 1972 - 619
Siphlonurus bernice McDunnough, 1923 - 509
Siphloplecton basalis (Walker), 1853 - 477
Stenonema carolina (Banks), 1914 - 646
Stenonema tessellata (Walker), 1853 - 672

Corrections
Ameletus montis Mayo, 1952 - 313
Baetis moffatti Dodds, 1923 - 363
Brachycercus floridicola Soldán, 1986 - 129
Brachycercus pini Soldán, 1986 - 134
Brachycercus sp. A Berner, 1950 - 129
Choroterpes ferruginea Traver, 1934 - 002
Choroterpes fusca Spieth, 1938 - 002
Choroterpes hubbelli Berner, 1946 - 002
Cinygma decepetiva McDunnough, 1924 - 555
Cloe mollis Hagen, 1861 - 051
Cloeon vicinum Hagen, 1861 - 471
Epeorus humeralis Morgan, 1911 - 573
Heptagenia adaequta McDunnough, 1924 - 574
Leptophlebia bradley Needham, 1932 - 016
Paraleptophlebia bradley (Needham), 1932 - 016
Pseudocloeon carolina (Banks), 1924 - 335
Pseudocloeon cingulatum McDunnough, 1931 - 353
Rhithrogena hespera Banks, 1924 - 561
Rhithrogena notialis Allen & Cohen, 1977 - 636
Rhithrogena petulans (Seemann), 1927 - 635
Thraulus albertanus McDunnough, 1931 - 077
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LITERATURE CITED


SCIENTIFIC NOTE

ADDITIONS TO IOWA MAYFLIES (EPHEMEROPTERA)\textsuperscript{1,2}

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Klubertanz (1995) recorded 66 nominal species of mayflies from the state of Iowa. Thirty-nine of those records represented new state records. Herein we add 10 new Iowa records. Newly reported materials are deposited at the Purdue Entomological Research Collection, West Lafayette, IN (PERC) or the University of Iowa Hygienic Laboratory, Des Moines, IA (IHL).


LITERATURE CITED


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