

Corrections and Additions to the Catalog of the Aphid Genera Described from the New World

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ABSTRACT

Since the publication of the Catalog of the Aphid Genera Described from the New World (Favret et al. 2008), several errors and omissions have come to light. We here make corrections to seven genus-group names and add 17 valid and nine invalid generic names, raising the total number of available New World genus-group names to 232. Future nomenclatural additions and corrections, at any aphid taxonomic level, will be published in the Aphid Species File database (<http://aphid.speciesfile.org>).

Key words.- aphids, plant lice, America, Nearctic, Neotropical

INTRODUCTION

Godfray (2002) highlighted the “legacy of more than 200 years of systematics” describing it as a “dead weight” on the subject. One consequence of this legacy is the revisiting of historical literature, the continual correcting of errors both new and propagated, and the ever-developing complexity of the taxonomic endeavor. In developing a list of the aphid genera of the world to submit to the International Commission on Zoological Nomenclature as a *Part* of the List of Available Names in Zoology (per article 78.2.1 of the ICZN 4th Edition) (International Commission on Zoological Nomenclature 1999), the aphidologist community is attempting to permanently clarify and solidify the nomenclatural history of its taxon. In publishing a catalog of the genus-group names from the New World (Favret et al., 2008), we hope to have aided the process.

However, several errors and omissions to the catalog have come to light since its publication and we here correct them. There undoubtedly are other errors yet undetected and we here publicize Aphid Species File (<http://aphid.speciesfile.org>) as the source for future corrections, additions, and refinements of aphid nomenclatural issues with respect to original published accounts. Aphid Species File, under development, is a bibliographic and taxonomic database of the aphids of the world.

With this addendum to the catalog, we add another 26 available genus-group names 17 valid, of which 9 are fossil names, and 9 invalid. Two particularly important corrections are to *Ericobium* MacGillivray, which is an available if invalid name, and to *Eokakimia* Heie which is a synonym of *Aconitaphis* Ivanovskaja.

ACKNOWLEDGMENTS

Our sincere thanks go to those who brought errors and omissions to our attention, especially Ole Heie (Denmark). For manuscript reviews, we thank Andy Jensen (Moses Lake, WA), Jens Prena (Systematic Entomology Laboratory, Washington, DC) and Ron Ochoa (Systematic Entomology Laboratory, Beltsville, MD).

CORRIGENDA (IN BOLD)

***Amphorinophora* MacGillivray 1958: 11**

Type species.—*Amphorophora crystleae* Smith and Knowlton 1939: 241 (U.S.A., Idaho), **by original designation**

***Eokakimia* Heie 1979: 20**

Current status.— junior subjective synonym of *Aconitaphis* Ivanovskaja in Ivanovskaja and Ostanin 1971

***Ericobium* MacGillivray 1958: 9**

Described as subgenus of *Masonaphis* Hille Ris Lambers 1939

Type species.—*Amphorophora azaleae* Mason 1925: 11 (U.S.A., Florida), **by original designation**

Current status.— junior subjective synonym of *Illinoia* Wilson 1910

Gender.— neuter

Etymology.— [named for host plant family Ericaceae]

***Masonaphis* Hille Ris Lambers 1939: 122**

Type species.—*Macrosiphum rhododendri* Wilson 1918: 230 (U.S.A., Oregon), by original designation **and by application of Article 70.3.1 of the ICZN (see MacGillivray 1958: 9)**

***Neothomasia* A.C. Baker 1920: 35**

Replacement name for *Thomasia* Wilson 1910b **but which already had been replaced by *Thomasiniellula* Strand 1917**

Current status.— **junior objective synonym of *Thomasiniellula* Strand 1917**

***Siphonocallis* Del Guercio 1913c: 293**

Gender.— feminine

***Thomasia* Wilson 1910b: 386**

Current status.— junior homonym of

Thomasia Poche 1908, a fossil haramiyid mammal; *Thomasia* R₁bsaamen 1910, a fly. **Replaced by *Thomasiniellula* Strand 1917 (but see also *Neothomasia* A.C. Baker)**

ADDENDA

***Amelanchieria* Shaposhnikov 1950: 224**

Described as subgenus of *Nearctaphis* Shaposhnikov 1950

Type species.—*Aphis sensoriata* Gillette and Bragg 1918: 330 (U.S.A., Colorado), by original designation

Current status.— junior subjective synonym of *Nearctaphis* Shaposhnikov 1950

Gender.— feminine

Etymology.— [named for host, *Amelanchier*]

Americaphis Heie 2006: 97

Type species.— *Americaphis longipes* Heie 2006: 97 (Nevada, U.S.A.), by original designation

Fossil deposit.— Stewart Valley shale, Nevada

Current status.— valid

Current taxonomic position.— Drepanosiphinae Aphididae

Gender.— feminine

Etymology.— “the aphid from America”

Aphidinius Heie 2006: 93

Type species.— *Aphidinius constrictus* Heie 2006: 94 (Alberta, Canada), by original designation

Fossil deposit.— Canadian amber

Current status.— valid

Current taxonomic position.— Aphidoidea *insertae sedis*

Gender.— masculine

Etymology.— [as *Aphis* + Latin suffix “-ius”] “derivation of the genus name *Aphis* L.”

Atarsaphis Takahashi 1958: 181

Type species.— *Atarsaphis quercus* Takahashi 1958: 181 (Japan [= *Hamamelistes agrifoliae* Ferris 1921: 290 (U.S.A., California)], by original designation

Current status.— valid

Current taxonomic position.— Nipponaphidini Hormaphidinae Aphididae

Gender.— feminine

Etymology.— [Greek “a-” ‘without’ + “tarsus” ‘ankle’ + *Aphis*]

Canaphis Heie 2006: 93

Type species.— *Canaphis albertensis* Heie 2006: 93 (Alberta, Canada), by original designation

Fossil deposit.— Canadian amber

Current status.— valid

Current taxonomic position.— Aphidoidea *insertae sedis*

Gender.— feminine

Etymology.— “*Can* after Canada, *aphis* = aphid”

Capitosiphon Heie 1979: 76

Described as subgenus of *Nasonovia* Mordvilko 1914

Type species.— *Macrosiphum crenicornum* Smith and Knowlton 1939: 243 (U.S.A., Idaho and Utah), by original designation

Current status.— valid

Current taxonomic position.— subgenus of *Nasonovia* Mordvilko 1914,

Macrosiphini Aphidinae Aphididae

Gender.— neuter

Etymology.— [Latin ‘capit(is)’ “head” + Greek ‘siphon’ “siphunculus”] “the aphid with capitate hairs on the siphunculi”

Caricaphis Börner 1930: 128

Type species.— *Chaitophorus flabellus* Sanborn 1904: 37 (U.S.A., Kansas), by original designation

Current status.— junior subjective synonym of *Iziphyta* Nevsky 1929

Gender.— feminine

Etymology.— [host plant *Carex* + *Aphis*]

Cavariella Heinze 1960: 810

Described as subgenus of *Cavariella* Del Guercio 1911

Type species.—*Cavariella hilleristambersi* Ossiannilsson 1959: 32 (Sweden)

[=*Siphocoryne aquatica* Gillette and Bragg 1916: 447 (U.S.A., Colorado)], by original designation

Current status.— valid

Current taxonomic position.— subgenus of *Cavariella* Del Guercio 1911,

Macrosiphini Aphidinae Aphididae

Gender.— feminine

Etymology.— [*Cavariella* + Latin suffix “-ia”]

Clydesmithia Danielsson 1990: 429

Type species.— *Clydesmithia canadensis* Danielsson 1990: 429 (Canada: British Columbia), by original designation

Current status.— valid

Current taxonomic position.— Pemphigini Eriosomatinae Aphididae

Gender.— feminine

Etymology.— “named in honor of Clyde F. Smith”

Colophella Börner 1926: 233

Type species.— *Tetraneura graminis* Monell 1882: 16 (U.S.A., Missouri)

[=*Byrsoecrypta ulmicola* Fitch 1859: 843 (U.S.A., New York)], by monotypy

Current status.— junior subjective synonym of *Colopha* Monell 1877

Gender.— feminine

Etymology.— [*Colopha* + Latin diminutive suffix “-ella”]

Davisia Del Guercio 1909d: 185

Described as subgenus of *Lachnus* Burmeister 1835

Type species.— *Aphis caryae* Harris 1841: 190 (U.S.A., Massachusetts), by subsequent designation (Eastop and Hille Ris Lambers 1976: 171)

Current status.— junior objective synonym of *Longistigma* Wilson 1909

Gender.— feminine

Etymology.— [patronym for J.J. Davis]

Eriosaphis Heie 2006: 99

Type species.— *Eriosaphis leei* Heie 2006: 99 (Nevada, U.S.A.), by original designation

Fossil deposit.— Stewart Valley shale, Nevada

Current status.— valid

Current taxonomic position.— Eriosomatinae Aphididae

Gender.— feminine

Etymology.— “erios = the beginning of the family name; *aphis* = aphid”

Eriosomaphis Heie 2006: 100

Type species.— *Eriosomaphis jesperii* Heie 2006: 100 (Nevada, U.S.A.), by original designation

Fossil deposit.— Stewart Valley shale, Nevada

Current status.— valid

Current taxonomic position.— Eriosomatinae Aphididae

Gender.— feminine

Etymology.— “the name is a combination of the names of two aphid genera, *Eriosoma* Leach and *Aphis* Linné”

Fitchiella Shaposhnikov 1950: 224

Described as subgenus of *Nearctaphis* Shaposhnikov 1950

Type species.— *Aphis crataegifoliae* Fitch 1851: 66 (U.S.A., New York), by original designation

Current status.— junior subjective synonym of *Nearctaphis* Shaposhnikov 1950; junior homonym of *Fitchiella* Van Duzee 1917, an issid

Gender.— feminine

Etymology.— [patronym for A. Fitch]

Hayhurstia Del Guercio 1917: 206

Type species.— *Hayhurstia deformans* Del Guercio 1917: 206 (U.S.A., Colorado) [= *Aphis atriplicis* Linnaeus 1761: 262 (Europe)], by monotypy

Current status.— valid

Current taxonomic position.— Macrosiphini Aphidinae Aphididae

Gender.— feminine

Etymology.— [patronym for P. Hayhurst]

Lachnarius Heie 2006: 98

Type species.— *Lachnarius miocaenicus* Heie 2006: 98 (Nevada, U.S.A.), by original designation

Fossil deposit.— Stewart Valley shale, Nevada

Current status.— valid

Current taxonomic position.— Lachninae Aphididae

Gender.— masculine

Etymology.— [*Lachnus* + Latin suffix '-arius' "similar to"] "similar to *Lachnus* Burmeister"

Masraphis Soliman 1938: 4

Type species.— *Masraphis phyllostachia* Soliman 1938: 4 (Egypt) [= *Aphis bambusae* Fullaway 1910: 35 (U.S.A., Hawaii)], by original designation

Current status.— junior subjective synonym of *Melanaphis* van der Goot 1917

Gender.— feminine

Etymology.— [Arabic "Masr" 'Egypt' + *Aphis*]

Neoceruraphis Shaposhnikov 1956: 285

Type species.— *Aphis viburnicola* Gillette 1909: 280 (U.S.A., Colorado), by original designation

Current status.— junior subjective synonym of *Ceruraphis* Börner 1926

Gender.— feminine

Etymology.— [Greek "neo-" 'new' + *Ceruraphis*]

Nevaphis Heie 2006: 96

Type species.— *Nevaphis nevadensis* Heie 2006: 96 (Nevada, U.S.A.), by original designation

Fossil deposit.— Stewart Valley shale, Nevada

Current status.— valid

Current taxonomic position.— Drepanosiphinae Aphididae

Gender.— feminine

Etymology.— "the aphid from Nevada"

Palaeogreenidea Heie 2006: 95

Type species.— *Palaeogreenidea rittae* Heie 2006: 95 (Nevada, U.S.A.), by original designation

Fossil deposit.— Stewart Valley shale, Nevada

Current status.— valid

Current taxonomic position.— Greenideinae Aphididae

Gender.— feminine

Etymology.— “[Greek] *palaeo* = old, *Greenidea* = the name of an extant aphid genus”

Pterocallidium Börner 1949: 49

Type species.— *Chaitophorus maculatus* Buckton 1899: 277 (India) [= *Callipterus trifolii* Monell 1882: 14 (U.S.A.)], by original designation

Current status.— subgenus of *Therioaphis* Walker 1870, Panaphidina Panaphidini Calaphidinae Aphididae

Gender.— neuter

Etymology.— [Greek “ptero-” ‘wing’ + “calli-s/-d-” ‘beautiful’ + Latin suffix “-ium”]

Ranakimia Heie 1979: 23

Described as subgenus of *Nasonovia* Mordvilko 1914

Type species.— *Nectarophora purpurascens* Oestlund 1887: 81 (U.S.A., Minnesota) by original designation

Current status.— valid

Current taxonomic position.— subgenus of *Nasonovia* Mordvilko 1914, Macrosiphini Aphidinae Aphididae

Gender.— feminine

Etymology.— “Ranunculaceae + *Kakimia*”

Similidrepan Heie 2006: 96

Type species.— *Similidrepan pulawskii* Heie 2006: 96 (Nevada, U.S.A.), by original designation

Fossil deposit.— Stewart Valley shale, Nevada

Current status.— valid

Current taxonomic position.— Drepanosiphinae Aphididae

Gender.— neuter

Etymology.— “[Latin] *simili* = similar, *Drepan* = abbreviation of *Drepanosiphum*”

Thomasiniellula Strand 1917: 82

Replacement name for *Thomasia* Wilson 1910

Type species.— *Chaitophorus populicola* Thomas 1878: 10 (U.S.A., Illinois and Iowa), by original designation

Current status.— junior subjective synonym of *Chaitophorus* Koch 1854

Gender.— feminine

Etymology.— [as *Thomasia* + Latin suffix “-inia” + Latin diminutive suffix “-ella(a)” + Latin diminutive suffix “-ulla”]

Trichocallis Börner 1930: 127

Type species.— *Allaphis caricis* Mordvilko 1921: 58 (Europe) [= *Thripsaphis producta* Gillette 1917: 196 (U.S.A., Colorado)], by original designation

Current status.— valid

Current taxonomic position.— subgenus of *Thripsaphis* Gillette 1917, Saltusaphidinae Aphididae

Gender.— feminine

Etymology.— [Greek ‘trikhos-’ ‘hair’ + ‘callis’ ‘beautiful’]

Yezabura Matsumura 1917: 392

Type species.—*Yezabura sasae* Matsumura 1917: 392 (Japan) [= *Aphis bambusae*

Fullaway 1910: 35 (U.S.A., Hawaii)], by original designation

Current status.— junior subjective synonym of *Melanaphis* van der Goot 1917

Gender.— feminine

Etymology.— [Japanese “Yez-” ‘the island of Hokkaido’ + “abura” ‘aphid’]

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