

Additions and Corrections
for the SAFIT STE (2006 version)
(updated: 24 February 2009)

The Southwest Association of Freshwater Invertebrate Taxonomists' (SAFIT) Standard Taxonomic Effort document (STE) was ratified by the SAFIT membership on 28 November 2006. Since then, additions and corrections have been tracked for incorporation into the next STE and the Master Source File (MSF) versions. Changes will not be implemented until the next revision. This information is being made available to the STE users in the form of this document to make users aware of important changes and preventing duplicate change form submissions. Users of the STE are encouraged to check back periodically for the latest updates.

Errors or omissions in the STE should be submitted to the STE committee, using the change form in the STE Rules PDF (http://www.swrcb.ca.gov/swamp/docs/safit/ste_rules.pdf). Additional information may be available at the SAFIT webpage (<http://safit.org/>).

Sincerely,

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updated: 6 November 2008

Porifera

Correction:

Evidence appears sufficient to support paraphyly in the traditional Phylum Porifera. It is suggested the phylum is not a natural clade, but rather a paraphyletic grade of animals with water vascular systems, and separate it into the two phyla Silicea and Calcarea. All North American freshwater sponge taxa are within the phylum Silicea.

Eernisse, D. J. and K. J. Peterson (2004). The history of animals. Chapter 13. Assembling the Tree of Life. First ed. J. Cracraft and M. J. Donoghue. New York, New York, U.S.A., Oxford University Press: 197-208.

updated: 4 October 2008

Mollusca

Correction:

The Ancyliidae were subsumed into Planorbidae . All ancyliid taxa will be moved to Planorbidae as per current peer reviewed literature.

Albrecht, C., K. Kuhn, et al. (2006). "A molecular phylogeny of the Planorbidea (Gastropoda, Pulmonata): insights from enhanced taxon sampling." Zoologica Scripta **36**: 27-39.

updated: 4 October 2008

Correction:

Inadvertent omission of Amnicolidae, Cochliopidae, Hydrobiidae, Lithoglyptidae, and Hydrobiid Incertae Sedis from the Final Version of STE, although present in the draft voted on by SAFIT in 2006. Taxonomic arrangement follows Bouchet & Rocroi (2005), Davis (1979) and Wilke et al. (2001).

revised section as it should be in the STE

Hypsogastropoda		
Amnicolidae		
	<i>Amnicola</i>	
	<i>Amnicola limosa</i> (Say, 1817)	
	<i>Colligyus</i>	
	<i>Colligyus greggi</i> (Pilsbry, 1935)	
Cochliopidae		
	<i>Eremopyrgus</i>	
	<i>Eremopyrgus eganensis</i> Hershler, 1999	
	<i>Ipnobius</i>	
	<i>Ipnobius robustus</i> (Hershler, 1989)	
	<i>Tryonia</i>	
Hydrobiidae		
	<i>Pyrgulopsis</i>	
Lithoglyptidae		
	<i>Fluminicola</i>	
Hypsogastropoda Incertae sedis		
	<i>Potamopyrgus</i>	
	<i>Potamopyrgus antipodarum</i> (Gray, 1843)	
	<i>Pristinicola</i>	
	<i>Pristinicola hemphilli</i> (Pilsbry, 1890)	

Bouchet, P. and J.-P. Rocroi (2005). "Classification and nomenclator of gastropod families." Malacologia **47**(1-2): 1-397.

Davis, G. M. (1979). "The origin and evolution of the gastropod family Pomatiopsidae, with emphasis on the Mekong River Triculinae." The Academy of Natural Sciences of Philadelphia Monograph **20**: 1-120.

Wilke, T., G. M. Davis, et al. (2001). "Molecular systematics of Hydrobiidae (Mollusca: Gastropoda: Rissooidea): testing monophyly and phylogenetic relationships." Proceedings of the Academy of Natural Sciences of Philadelphia **151**: 1-21.

updated: 4 October 2008

Crustacea

Correction:

Streptocephalus woottoni Eng, Belk and Eriksen, 1990 was misspelled as “*wootomi*” in both the STE and MSF. The correct spelling for the specific epithet should be “*woottoni*”.

Eriksen, C. H. and D. Belk (1999). Fairy shrimps of California's puddles, pools, and playas. Eureka, CA, Mad River Press, Inc.

updated: 24 February 2009

Collembola

Correction:

Kenneth A. Christensen and Frans Janssens have brought to our attention misinformation on the Collembola page. Human skin was listed as a possible substrate for collembolans based on information in Altschuler et al. (2004). This assertion has been generally discredited by collembolan taxonomists as a case of pareidolia and a peer-reviewed rebuttal is in the works. Please disregard the phrase "human skin" and the Altschuler citation on the Collembola page.

Altschuler, D. Z., and coauthors. 2004. Collembola (Springtails) (Arthropoda: Hexapoda: Entognatha) found in scrapings from individuals diagnosed with delusory parasitosis. *Journal of the New York Entomological Society* 112(1):87-95.

updated: 4 October 2008

Here is the rebuttal paper:

Christensen, K. A. and E. C. Bernard (2008). "Critique of the article "Collembola (springtails) (Arthropoda: Hexapoda: Entognatha) found in scrapings from individuals diagnosed with delusory parasitosis"." *Entomological News* 119(5): 537-540.

updated 24 February 2009

Addition:

Additional sources of information on Collembola:

Bellinger, P.F., Christiansen, K.A. & Janssens, F. 1996-2008. Checklist of the Collembola of the World. Accessed on 4 October 2008 at URL:

<http://www.collembola.org>

Bohart Museum of Entomology: <http://delusion.ucdavis.edu/delusional.html>

updated: 4 October 2008

Ephemeroptera

Addition:

Anthopotamus verticis (Say) has been found in California (McCafferty and Meyer, 2007). This represents the first record for the family Potamanthidae in California. The family, genus and species names will need to be added to the STE and MSF.

McCafferty, W. P. and M. D. Meyer (2007). "An extreme range extension and disjunction for the Ephemeroptera family Potamanthidae in North America." Proceedings of the Entomological Society of Washington **109**(3): 737-738.

updated: 6 October 2008

Correction:

Baetis caurinus Edmunds and Allen, 1967 has been determined to be a synonym of *Baetis tricaudatus* Dodds, 1923. *Baetis parallelus* Banks, 1924 has been determined to be a synonym of *Baetis flavistriga* McDunnough, 1921. *B. caurinus* and *B. parallelus* will be removed from the MSF.

McCafferty, W. P. (2007). "Two new species synonyms in North American *Baetis* Leach (Ephemeroptera: Baetidae)." Proceedings of the Entomological Society of Washington **109**(3): 735-736.

updated: 6 October 2008

Addition:

Baumann and Kondratieff (2000) was inadvertently overlooked during the construction of the STE and MSF. This paper reports several mayfly distribution records for Nevada. Add "X" in distribution for NV in STE and Master Source File for the following species: *Camelobaetidius warreni* (Traver and Edmunds), *Baetisca lacustris* McDunnough, *Mccaffertium terminatum* (Walsh), *Caenis latipennis* Banks.

Baumann, R. W. and B. C. Kondratieff (2000). "A confirmed record of the Ephemeroptera genus *Baetisca* from west of the Continental Divide and an annotated list of the mayflies of the Humboldt River, Nevada." Western North American Naturalist **60**(4): 459-461.

updated: 10 October 2008

Addition:

McCafferty (2007) described a new *Moribaetis* species from Arizona which also represents the first record of the genus for the United States. Add *Moribaetis* sp. and *Moribaetis mimbresaurus* McCafferty, 2007 to the MSF and STE with an "X" in the AZ column for each.

McCafferty, W. P. 2007. *Moribaetis mimbresaurus*, new species (Ephemeroptera: Baetidae): first representative of the genus North of Mexico. Proceedings of the Entomological Society of Washington **109**(3): 696-699.

updated: 10 October 2008

Correction:

McCafferty et al. (2008) reviewed California baetids originally described as *Baetis*. They proposed two synonymies which affect the STE and MSF. Delete *Acerpenna sulfurosus* and *A. thermophilos* from Master Source File and STE. The two species were synonymized under *A. thermophilos* and then later combined under *Fallceon*. Add *Fallceon thermophilos* (McDunnough) to Master Source File and STE. *F. quillieri* can no longer be considered the single species found in the SAFIT area.

McCafferty, W. P., M. D. Meyer, et al. (2008). "Evaluation of mayfly species originally described as *Baetis* Leach (Ephemeroptera: Baetidae) from California." Proceedings of the Entomological Society of Washington **110**(3): 577-591.

updated: 13 October 2008

Addition:

McCafferty (2006) reported the rediscovery of *Fallceon eatoni* (Kimmins) in Arizona. Add the species to the MSF with a distribution of AZ. *F. quillieri* (Dodds) cannot be considered the single species of *Fallceon* in Arizona.

McCafferty, W. P. (2006). "Rediscovery of *Fallceon eatoni* (Kimmins) (Ephemeroptera: Baetidae)." Proceedings of the Entomological Society of Washington **108**(1): 248.

updated: 13 October 2008

Correction:

Baumgardner (2008) synonymized *Tricorythodes minutus* Traver with *T. explicatus* (Eaton). Transfer distribution records for *T. minutus* to *T. explicatus*. Delete *T. minutus* from the STE and MSF.

Baumgardner, D. E. (2009). "*Tricorythodes minutus* Traver, a new synonym of *Tricorythodes explicatus* Eaton (Ephemeroptera: Leptohiphidae)." Proceedings of the Entomological Society of Washington **111**(1): 57-67.

updated: 24 February 2009

Odonata

Correction:

Aeshna californica Calvert, 1895; *A. dugesi* Calvert, 1905; *A. psilus* Calvert, 1918; and *A. multicolor* Hagen, 1861 were moved to the genus *Rhionaeschna* Forster.

von Ellenrieder, N. (2002). "A synopsis of the Neotropical species of 'Aeshna' Fabricius: the genus *Rhionaeschna* Forster (Odonata: Aeshnidae)." Tijdschrift voor Entomologie **146**: 67-207.

updated: 4 October 2008

Plecoptera

Addition:

A new species of *Cosumnoperla* has been described from California. Bottorff (2007) gives characters for separating the nymphs of the two species of *Cosumnoperla*. Bottorff also lists additional CA distribution records for *C. hypocrena* Szczytko and Bottorff.

Bottorff, R. L. (2007). "*Cosumnoperla sequoia*, a new species of stonefly from the Sierra Nevada, California (Plecoptera: Perlodidae: Isoperlinae)." Illiesia **3(6)**: 46-52.

updated: 6 October 2008

Addition:

A new species of *Taenionema* has been described from California (Baumann and Nelson, 2007). Add *Taenionema jeanae* Baumann and Nelson, 2007 (CA) to MSF.

Baumann, R. W. and C. R. Nelson (2007). "*Taenionema jeanae*, a new species of stonefly from southern California (Plecoptera: Taeniopterygidae)." Illiesia **3(18)**: 174-177.

updated: 6 October 2008

Addition:

Bottorff and Bottorff (2007) report *Suwallia dubia* (Frison) from California. An X needs to be placed in the CA column of the MSF for the species.

Bottorff, R. L. and L. D. Bottorff (2007). "Phenology and diversity of adult stoneflies (Plecoptera) of a small coastal stream, California." Illiesia **3(1)**: 1-9.

updated: 10 October 2008

Correction:

Eucapnopsis was misspelled as *Eucapnosis* in both the STE and MSF. Correct spellings should be *Eucapnopsis* sp. and *Eucapnopsis brevicauda* Claassen.

Stewart, K. W. and B. P. Stark (2002). Nymphs of North American stonefly genera (Plecoptera). Columbus, Ohio, The Caddis Press.

updated: 10 October 2008

Addition:

Sweltsa yurok Stark and Baumann, 2007 is newly described as an adult. The nymph is unknown. Add the species name to the MSF with distribution as CA.

Stark, B. P. and R. W. Baumann (2007). "*Sweltsa yurok* (Plecoptera: Chloroperlidae), a new stonefly from California, U.S.A." Illiesia **3**(10): 95-101.

updated: 13 October 2008

Addition:

Paracapnia humboldta Baumann and Lee, 2007 is newly described as an adult. The nymph is unknown. Add the species to the MSF distribution as CA.

Baumann, R. W. and J. J. Lee (2007). "*Paracapnia humboldta* (Plecoptera: Capniidae), a new winter stonefly from Northern California, U.S.A." Illiesia **3**(3): 17-19.

updated: 13 October 2008

Addition:

A new species of *Triznaka* has been described from Nevada. The nymph was not described. The genus was reviewed and an emended key to adults was provided. Add *Triznaka sheldoni* Baumann and Kondratieff, 2008 to the MSF with an X in the NV column.

Baumann, R. W. and B. C. Kondratieff (2008). "A review of the western North American genus *Triznaka* (Plecoptera: Chloroperlidae) with a new species from the Great Basin, U.S.A." Proceedings of the Entomological Society of Washington **110**(2): 345-362.

updated: 15 October 2008

Addition:

Baumann and Lee (2009) described two new species of *Isoperla* from California. Add *Isoperla laucki* Baumann and Lee, 2009 and *Isoperla karuk* Baumann and Lee, 2009 to the MSF with distribution of CA.

Baumann, R. W. and J. J. Lee (2009). "Two interesting new species of *Isoperla* from northern California (Plecoptera: Perlodidae)." Illiesia **5**(1): 1-10.

updated: 24 February 2009

Trichoptera

Addition:

A new species of *Wormaldia* has been described from California. Add *Wormaldia birney* Munoz-Quesada & Holzenthal, 2008 to the MSF with an "X" for CA.

Muñoz-Quesada, F. J. and R. W. Holzenthal (2008). "Revision of the Nearctic species of the caddisfly genus *Wormaldia* McLachlan (Trichoptera: Philopotamidae)." *Zootaxa*(1838): 1-75.

updated: 6 October 2008

Correction:

Blahnik (2005) reorganized the genus *Dolophilodes*, elevating previously recognized subgenera to generic status and describing a new related genus from Brazil. Two species found in the western United States are now considered to be in the genus *Sisko* Ross, 1956. *Dolophilodes oregonus* (Denning, 1966) is now *Sisko oregona* (Denning, 1966); *Dolophilodes sisko* (Ross, 1949) is now *Sisko sisko* (Ross, 1949). The larvae have not been associated for these species or described for *Sisko* so all identifications of *Dolophilodes* with the existing keys is understood to be *Dolophilodes/Sisko*.

Blahnik, R. J. (2005). "*Alterosa*, a new caddisfly genus from Brazil (Trichoptera: Philopotamidae)." *Zootaxa*(991): 1-60.

updated: 10 October 2008

Coleoptera

Addition:

Three species of *Laccobius* were inadvertently omitted from the MSF. Add *Laccobius nevadensis* Miller, 1965 (OR), *Laccobius pacificus* Miller, 1965 (CA, OR, WA) and *Laccobius truncatipennis* Miller, 1965 (OR, WA) to MSF.

Miller, D. C. (1965b). "New *Laccobius* (Coleoptera: Hydrophilidae) from the Pacific Northwest, with notes on previously named species." Journal of the New York Entomological Society **73**(2): 56-62.

updated: 6 October 2008

Addition:

Two species of *Berosus* were inadvertently omitted from the MSF. Add *Berosus hatchi* Miller, 1965 (OR, WA) and *Berosus oregonensis* Miller, 1965 (OR).

Miller, D. C. (1965a). "Notes on northwestern *Berosus* (Coleoptera: Hydrophilidae), with two new species." Journal of the New York Entomological Society **73**(1): 28-33.

updated: 6 October 2008

Addition:

Brychius is newly revised for North America (Mousseau and Roughley, 2007). Of the three recognized species, two are found within the SAFIT STE geographical limits and are separable based on characters given in the revised key. The citation should be added to both the STE and MSF.

Mousseau, T. and R. E. Roughley (2007). "Taxonomy, classification, reconstructed phylogeny and biogeography of Nearctic species of *Brychius* Thomson (Coleoptera: Haliplidae)." Coleopterists Bulletin **61**(3): 351-397.

updated: 6 October 2008

Addition:

Van Tassel (2001) lists *Epimetopus* as occurring in Arizona. No species information is given. The family and genus should be added to the STE and MSF.

Van Tassell, E. R. (2001). Family 13. Hydrophilidae Latreille, 1802. American Beetles. Volume 1. Archostemata, Myxophaga, Adepaga, Polyphaga: Staphyliniformia. xv + 443 pp. + 2 color plates. R. H. Arnett, Jr. and M. C. Thomas. Boca Raton, London, New York and Washington, D.C., CRC Press: 187-208.

updated: 6 October 2008

Addition:

Van Tassell (1964) discusses the distribution records and taxonomic placement for this taxon. *Hemiosus exilis* has at times been considered a species of *Berosus*. Van Tassell (2001) includes *Hemiosus* in the list of Nearctic Hydrophilidae. Add *Hemiosus* sp. and *Hemiosus exilis* (LeConte, 1851) to the Master Source File and STE with the distribution as AZ

Van Tassell, E. R. (1964). "A note on *Hemiosus exilis* Leconte (Coleoptera: Hydrophilidae)." Coleopterists Bulletin **18**(2): 53-56.

Van Tassell, E. R. (2001). Family 13. Hydrophilidae Latreille, 1802. American Beetles. Volume 1. Archostemata, Myxophaga, Adepaga, Polyphaga: Staphyliniformia. xv + 443 pp. + 2 color plates. R. H. Arnett, Jr. and M. C. Thomas. Boca Raton, London, New York and Washington, D.C., CRC Press: 187-208.

updated: 13 October 2008

Diptera

Addition:

Lester et al. (2004) report *Tempisquitoneura merrillorum* Epler, 1995 from Arizona and give ecological notes for the taxon (Chironomidae: Orthocladiinae). *Tempisquitoneura* larvae are phoretic on larval Corydalidae (Megaloptera).

Lester, G. T., B. J. Krestian, and J. H. Epler. (2004). "First Nearctic records of *Tempisquitoneura* (Diptera: Chironomidae: Orthocladiinae) from Arizona, USA." Entomological News **114**(2): 117-119.

updated: 6 October 2008

Addition:

Cranston in Cranston et al. (2007) described a new species of *Hydrobaenus* from California. Add *Hydrobaenus saetheri* Cranston in Cranston et al., 2007 and an "X" in the CA column of the MSF>

Cranston, P. S., G. M. Benigno, et al. (2007). *Hydrobaenus saetheri* Cranston, new species, an aestivating, winter-emerging chironomid (Diptera: Chironomidae) from California. Contributions to the Systematics and Ecology of Aquatic Diptera: A Tribute to Ole A. Sæther. T. Andersen. Columbus, Ohio, The Caddis Press: vi + 358.

updated: 10 October 2008

Correction:

Overlooked Washington record for *Phaenopsectra obedians* (Johannsen, 1905). Add to MSF.

Oliver, D. R., M. E. Dillon, et al. (1990). A catalog of Nearctic Chironomidae. Ottawa, Canada, Canadian Government Publishing Centre Supply and Services Canada.

updated: 5 November 2008

Addition:

Blepharicera kalmiopsis Jacobson and Courtney, 2009 was described from all life stages and is recorded from Oregon and California. Add name to MSF and distribution of OR and CA.

Jacobson, A. J. and G. W. Courtney (2008). "A new species of *Blepharicera* Macquart (Diptera: Blephariceridae) from western North America." Proceedings of the Entomological Society of Washington **110**(4): 978-987.

updated: 24 February 2009
