

Selected Recent Publications with Relevance to the Trichoptera of the Nearctic Region

2023

- Barnett, Z. C., Boggs, J., & Sun, G. (2023). Response of stream macroinvertebrate communities to forest harvesting in the Piedmont region of North Carolina. *Forest Ecology and Management*, 544, 121217.
- Bertagnolli, A. D., Maritan, A. J., Tumolo, B. B., Fritz, S. F., Oakland, H. C., Mohr, E. J., . . . Stewart, F. J. (2023). Net-spinning caddisflies create denitrifier-enriched niches in the stream microbiome. *ISME Communications*, 3(1), 111.
- Bowles, D. E. (2023). A remarkable range extension for the microcaddisfly *Ochrotrichia capitana* Ross (Trichoptera: Hydroptilidae). *Proceedings of the Entomological Society of Washington*, 124(4), 877-879.
- Broad, G. R., Price, B. W., Wallace, I. (2023). The genome sequence of a caddisfly, *Limnephilus rhombicus* (Linnaeus, 1758). *Wellcome Open Research*, 8(170).
- Eldridge, S. L. C., & Hornberger, M. I. (2023). Spatiotemporal variations in copper, arsenic, cadmium, and zinc concentrations in surface water, fine-grained bed sediment, and aquatic macroinvertebrates in the upper Clark Fork Basin, western Montana—A 20-year synthesis, 1996–2016: US Geological Survey.
- Frandsen, P. B., Hotaling, S., Powell, A., Heckenhauer, J., Kawahara, A. Y., Baker, R. H., . . . Stewart, R. J. (2023). Allelic resolution of insect and spider silk genes reveals hidden genetic diversity. *Proceedings of the National Academy of Sciences*, 120(18), e2221528120.
- Gerth, B., Giersch, J., Kerst, C., Lee, J., Metcalfe, A., Orfinger, A., . . . Wisseman, B. (2023). David Ernest Ruitter (February 2, 1948 to February 4, 2021). *The Pan-Pacific Entomologist*, 99(1), 1-21.
- Gerth, W. J., Murphy, C. A., & Arismendi, I. (2023). Caddisfly dives for oviposition: Record-shattering depths and poor life choices in a dammed river system. *Freshwater Science*, 42(1), 104-117.
- Green, M. (2023). Revision, Description, and Diagnosis of Adult and Larval *Pycnopsyche* Spp. (Trichoptera: Limnephilidae) Using Morphological and Molecular Methods. Ph.D. dissertation, Clemson University.
- Grigoropoulou, A., Hamid, S. A., Acosta, R., Akindele, E. O., Al-Shami, S. A., Altermatt, F., . . . Domisch, S. (2023). The global EPTO database: Worldwide occurrences of aquatic insects. *Global Ecology and Biogeography*, 32(5), 642-655.
- Heckenhauer, J., Stewart, R. J., Ríos-Touma, B., Powell, A., Dorji, T., Frandsen, P. B., & Pauls, S. U. (2023). Characterization of the primary structure of the major silk gene, *h*-fibroin, across caddisfly (Trichoptera) suborders. *Iscience*, 26(8).
- Houghton, D. C., & DeWalt, R. E. (2023). The caddis aren't alright: modeling Trichoptera richness in streams of the northcentral United States reveals substantial species losses. *Frontiers in Ecology and Evolution*, 11.
- Houghton, D. C., & Etnier, D. A. (2023). New province records of southern Ontario caddisflies (Trichoptera). *The Great Lakes Entomologist*, 56(1), 6.
- Houghton, D. C., Flaherty, E., Sollie, D., & Lardner, R. (2023). Seasonal changes of benthic macroinvertebrate functional feeding group biomass within forest and meadow habitats of a first-order Michigan (USA) stream. *The Great Lakes Entomologist*, 55(2), 5.
- Houghton, D. C. & Haack, R. A. (2023a). The caddisflies (Trichoptera) of Drummond Island, Michigan, with an assessment of lake assemblage biomass. *The Great Lakes Entomologist*, 56(1), 7.
- Houghton, D. C., & Haack, R. A. (2023b). The caddisflies (Trichoptera) of Finch Creek, Antrim County, Michigan (USA). *The Great Lakes Entomologist*, 56(1), 8.
- Mikami, K., Takenaka, M., Nozaki, T., Bae, Y. J., & Tojo, K. (2023). Phylogeography of alpine and subalpine adapted *Pseudostenophylax* caddisflies (Limnephilidae: Trichoptera): a strong relationship with mountain formation. *Biological Journal of the Linnean Society*, 139, 257-274.
- Murray-Stoker, K. M., & McCauley, S. J. (2023). The Caddisfly Collective: Methods of assessing Trichoptera diversity on a continental scale with community scientists. *Contributions to Entomology*, 73(2), 151-160.
- Nelson, D., & Miller, S. W. (2023). Longitudinal patterns of diversity and secondary production in a large regulated river. *Hydrobiologia*, 850(7), 1601-1617.
- Orfinger, A. B. (2023a). Systematic Studies of the Nearctic *Polycentropus Sensu Stricto* (Trichoptera: Polycentropodidae). Ph.D. dissertation, University of Florida.

- Orfinger, A. B. (2023b). Taxonomic revision of the *Polycentropus confusus* Species Group (Trichoptera: Polycentropodidae). *Journal of Natural History*, 57(41-44), 1825-1916.
- Orfinger, A. B., Hix, R. L., & Rasmussen, A. K. (2023). Larval taxonomy of eastern Nearctic *Polycentropus sensu stricto* (Trichoptera: Polycentropodidae). *Freshwater Science*, 42(2), 176-189.
- Parisek, C. A., Marchetti, M. P., & Cover, M. R. (2023). Morphological plasticity in a caddisfly that co-occurs in lakes and streams. *Freshwater Science*, 42(2), 161-175.
- Sullivan, S. P., Wisseman, R. W., & Pfeiffer, J. (2023). An argument in support of the development of regionalized standard taxonomic efforts for benthic macroinvertebrate-based monitoring. *Ecological Indicators*, 149, 110184.
- Thomas, J. A., Frandsen, P. B., & Morse, J. C. (2023). Revised chronology of Trichoptera evolution. *Contributions to Entomology*, 73(2), 289-294.
- Thomson, R. E. (2023). Catalog of the Hydroptilidae (Insecta, Trichoptera). *ZooKeys*, 1140, 1.
- Tumolo, B. B., Albertson, L. K., Daniels, M. D., Cross, W. F., & Sklar, L. L. (2023). Facilitation strength across environmental and beneficiary trait gradients in stream communities. *Journal of Animal Ecology*, 92(10), 2005-2015.

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- Bowles, D. (2022). Additional distributional records for a rare caddisfly in the Ozarks, *Frenesia missa* (Milne)(Trichoptera: Limnephilidae). *Journal of the Arkansas Academy of Science*, 76, 42.
- Cavallaro, M. C., Medeiros, M. J., Halloran, S., & Millar, J. G. (2022). Identification and bioassays of sex-specific compounds from a nuisance net-spinning caddisfly *Smicridea fasciatella* (Trichoptera: Hydropsychidae). *Journal of Economic Entomology*, 115(5), 1505-1512.
- Cavallaro, M. C., Sanders, C. J., & Hladik, M. L. (2022). Measured efficacy, bioaccumulation, and leaching of a transluthrin-based insecticidal paint: a case study with a nuisance, nonbiting aquatic insect. *Pest Management Science*, 78(12), 5413-5422.
- Demi, L. M., Hughes, D., & Taylor, B. W. (2022). Characterizing the role of phosphorus availability and periphytic algae in the food choice and performance of detritivorous caddisflies (Trichoptera: Limnephilidae). *Freshwater Science*, 41(1), 18-32.
- Etnier, D. A., Bauer, B. H., Green, M. W., & Orfinger, A. B. (2022). Larval description of the northern caddisfly, *Limnephilus sackeni* Banks, 1930 (Trichoptera: Limnephilidae). *Aquatic Insects*, 43(3), 246-256.
- Finn, D. S., Johnson, S. L., Gerth, W. J., Arismendi, I., & Li, J. L. (2022). Spatiotemporal patterns of emergence phenology reveal complex species-specific responses to temperature in aquatic insects. *Diversity and Distributions*, 28(8), 1524-1541.
- Gomes, P. G. S., Lima, E. L., Silva, S. R., Juen, L., & Brasil, L. S. (2022). Does land use and land cover affect adult communities of Ephemeroptera, Plecoptera and Trichoptera (EPT)? A systematic review with meta-analysis. *Environmental Monitoring and Assessment*, 194(10), 697.
- Haack, R. A., & Houghton, D. C. (2022). Collecting caddisflies in northern Michigan and other tales from a retired forest entomologist. *Newsletter of the Michigan Entomological Society Vol*, 66(3), 5.
- Houghton, D. C. (2022). Comparison of caddisfly (Insecta, Trichoptera) assemblages from lake and river habitats of the Huron Mountains of Michigan (USA). *ZooKeys*, 1111, 267-286.
- Houghton, D. C., DeWalt, R. E., Hubbard, T., Schmude, K. L., Dimick, J. J., Holzenthal, R. W., . . . Snitgen, J. L. (2022). Checklist of the caddisflies (Insecta, Trichoptera) of the upper midwest region of the United States. *ZooKeys*, 1111, 287.
- Koster, S. C., Pytel, A. J., & Houghton, D. C. (2022). Testing continuity in a Michigan (USA) river using the organic biomass of adult Ephemeroptera, Plecoptera, and Trichoptera. *Journal of Freshwater Ecology*, 37(1), 299-311.
- Kremer, L. B., & Caldwell, C. A. (2022). Wildfire effects on mass and thermal tolerance of *Hydropsyche oslari* (Trichoptera) in southwestern USA montane grassland streams. *Freshwater Science*, 41(1), 62-76.
- Metcalfe, A. N., Kurthen, A. L., Freedman, J. W., & Orfinger, A. B. (2022). The grand caddis hatch of JASM 2022: Trichoptera natural history observations at the Joint Aquatic Sciences Meeting in Grand Rapids, Michigan (USA). *Limnology and Oceanography Bulletin*, 31(4), 101-106.

- Miess, S., Chrisekos, A., & Strand, M. (2022). An ecological profile of *Hydropsyche alternans* (Trichoptera: Hydropsychidae) in Lake Superior, the last stronghold of a once-dominant great lakes surf zone caddisfly. *Insects*, 13(7), 659.
- Moh'd A, A. M., Nachappa, P., Ruiter, D. E., Givens, D. R., & Fairchild, M. P. (2022). Caddisflies (Insecta: Trichoptera) of montane and alpine lakes of northern Colorado (USA). *Western North American Naturalist*, 82(3), 563-576.
- Orfinger, A. B. (2022). Redescription and transfer of *Holocentropus timesis* (Denning) new combination (Trichoptera: Polycentropodidae). *Proceedings of the Entomological Society of Washington*, 124(1), 98-107.
- Orfinger, A. B., Hix, R. L., Gerth, W. J., & Rasmussen, A. K. (2022). Larval taxonomy of western Nearctic *Polycentropus* Curtis, 1835 sensu stricto (Trichoptera: Polycentropodidae), with comments on the identification of immature Nearctic *Polycentropus* sensu lato. *The Pan-Pacific Entomologist*, 98(4), 245-261.
- Orfinger, A. B., Morse, J. C., & Hix, R. L. (2022). Associating life stages and sexes of Nearctic *Polycentropus* Curtis, 1835 (Trichoptera: Polycentropodidae) using mitochondrial DNA barcoding. *Ecology and Evolution*, 12(3), e8741.
- Pauls, S. U., Thomson, R., & Rázuri-Gonzales, E. (2022). Ralph W. Holzenthal—a mentor and friend retires. *ZooKeys*, 1111, 1-41.
- Resh, V. H., & Mendez, P. K. (2022). Museum records of California Trichoptera: potentially useful information to provide larval-adult associations for improving water quality surveys. *The Pan-Pacific Entomologist*, 98(4), 321-339.
- Shepard, I. D., Wissinger, S. A., & Greig, H. S. (2022). Contrasting short-and long-term outcomes of pairwise interactions between caddisflies at a hydrologically heterogeneous range margin. *Freshwater Biology*, 00, 1-10.
- Thomson, R. E., Frandsen, P. B., & Holzenthal, R. W. (2022). A preliminary molecular phylogeny of the family Hydroptilidae (Trichoptera): an exploration of combined targeted enrichment data and legacy sequence data. *ZooKeys*, 1111, 467-488.
- Tozer, W. (2022). Seasonal aquatic insect flight periodicities for a southern California reservoir, with new distributional records. *Pan-Pacific Entomologist*, 98(2), 116-131.
- Webb, J. M., Cole, M. B., & Simmons, T. (2022). DNA Barcoding Takes Bioassessment Further: new distribution records for aquatic macroinvertebrates from Alaskan national parks. *Proceedings of the Entomological Society of Washington*, 124(1), 131-149.

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- Chatila-Amos, K. (2021). Detecting Subarctic Caddisflies Using eDNA and Measuring the Phylogenetic Signal of Their Choice in Habitat. M.S. thesis, University of Guelph.
- Hoening, B. D., Trevelline, B. K., Nuttle, T., & Porter, B. A. (2021). Dietary DNA metabarcoding reveals seasonal trophic changes among three syntopic freshwater trout species. *Freshwater Biology*, 66(3), 509-523.
- Houghton, D. C. (2021). A new species of *Setodes* Rambur (Trichoptera: Leptoceridae) from northern Michigan, USA. *Zootaxa*, 4965(2), 293-300.
- Houghton, D. C. (2021). A tale of two habitats: whole-watershed comparison of disturbed and undisturbed river systems in northern Michigan (USA), based on adult Ephemeroptera, Plecoptera, and Trichoptera assemblages and functional feeding group biomass. *Hydrobiologia*, 1-18.
- Houghton, D. C., & DeWalt, R. E. (2021). If a tree falls in the forest: terrestrial habitat loss predicts caddisfly (Insecta: Trichoptera) assemblages and functional feeding group biomass throughout rivers of the North-central United States. *Landscape Ecology*, 36(10), 3061-3078.
- Hribar, L. J., & Rasmussen, A. K. (2021). *Oecetis inconspicua* (Walker)(Trichoptera: Leptoceridae) added to the caddisfly fauna of Monroe County, Florida. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 167(1), 159-161.
- Orfinger, A. B., & Moulton, J. K. (2021). *Polycentropus aileenae* n. sp. (Trichoptera: Polycentropodidae), a caddisfly species from the eastern Nearctic, with new state records for members of the *Polycentropus confusus* Species Group. *Zootaxa*, 4996(2), 353-362.

- Parker, C. R., & Bernard, E. C. (2021). Previously unknown pores and ducts in the female terminalia of *Agapetus* Curtis, 1834 (Trichoptera: Glossosomatidae). *Transactions of the American Entomological Society*, 147(2), 595-634.
- Razo-González, M., Novelo-Gutiérrez, R., Castaño-Meneses, G., & Márquez, J. (2021). *Atopsyche* Banks (Trichoptera: Hydrobiosidae) from Mexico: new species, redescription, and identification key. *Studies on Neotropical Fauna and Environment*, 1-11.
- Rueda Martín, P. A., Gibon, F. M., & Sganga, J. V. (2021). New species and records of the Neotropical genus *Cyrnellus* (Trichoptera: Polycentropodidae) and the re-establishment of *C. minimus* and *C. marginalis*. *Zootaxa*, 5082(1): 015-029.
- Ruiter, D. E., Givens, D. R., & Nishimoto, H. (2021). Redescription of the *Allomyia renoa* (Milne) female and association and description of the male and larva (Trichoptera: Apataniidae). *Insecta Mundi*, 0883, 1-9.
- Shepard, I. D., Wissinger, S. A., Wood, Z. T., & Greig, H. S. (2021). Predators balance consequences of climate-change induced habitat shifts for range-shifting and resident species. *Journal of Animal Ecology*, 00, 1-11.
- Whitmore, G. D. (2021). The macroinvertebrate fauna of Nantucket's perennial and ephemeral streams. *Transactions of the American Entomological Society*, 147(2), 473-484.

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- Bowles, D. E. (2020). Caddisfly (Insecta: Trichoptera) diversity in the Ozarks and tallgrass prairie transitional zone, Arkansas and Missouri, USA. *Ecoscience*, 27(3), 223-234.
- Bowles, D. E., Cheri, C., Usrey, F. D., & Williams, J. M. (2020). Caddisflies (Trichoptera) of the Buffalo National River, Arkansas. *Insecta Mundi*, 770, 1-17.
- de Camargos, L. M. (2020). Systematics of *Cernotina* Ross and *Cyrnellus* Banks (Insecta: Trichoptera: Polycentropodidae). Ph.D. dissertation, University of Minnesota.
- Gerth, W. J., Kerst, C. D., Ruiter, D. E., & Wisseman, R. W. (2020). *Plectrocnemia crassicornis* (Walker, 1852)(Trichoptera: Polycentropodidae), pertinent literature, and first records from Oregon, USA. *The Pan-Pacific Entomologist*, 96(2), 93-97.
- Gonzales, L. E. R. (2020). *Phylogenomics of the Caddisfly Genus Smicridea, with a Taxonomic Revision of the S. nigripennis Species Group (Trichoptera: Hydropsychidae)*. Ph.D. dissertation, University of Minnesota.
- Houghton, D. (2020). New state species records and noteworthy re-captures of Michigan (USA) Trichoptera. *The Great Lakes Entomologist*, 53(1), 7.
- Houghton, D. C., & Lardner, R. (2020). Ash-free dry mass values for northcentral USA caddisflies (Insecta, Trichoptera). *ZooKeys*, 951, 37.
- Jain, A., Rasmussen, A. K., Milla, K. A., Richard, B. A., & Pescador, M. L. (2020). Water chemistry and aquatic insect assemblages of ephemeral ponds in the Munson Sand Hills region of the Apalachicola National Forest, Florida. *Southeastern Naturalist*, 19(2), 205-232.
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- Murray-Stoker, K. M., Batzer, D. P., Murray-Stoker, D., & McHugh, J. V. (2020). Shifts in the community composition of caddisflies (Insecta: Trichoptera) in a subtropical river over three decades. *Ecological Entomology*, 45(3), 514-524.
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- Rhodes, R. G., Poulton, B. C., Mabee, W. R., & Bowles, D. E. (2020). Larval diet of the rare caddisfly *Glyphopsyche missouri* (Trichoptera: Limnephilidae) in Missouri, USA. *Proceedings of the Entomological Society of Washington*, 122(4), 1026-1030.
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- Weaver, J. S. (2020). A phylogenetic review of the species groups of *Phylocentropus* Banks (Trichoptera: Dipseudopsidae). *Zoosymposia*, 18(1), 143-152.

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- Fusaro, A. J., McCulloch, B., Petrella, S., & Willis, V. (2019). Discovery, dispersal, and genetic diversity of *Rhyacophila lobifera* Betten, 1934 (Trichoptera: Rhyacophilidae) in southeast Michigan, USA. *Zoosymposia*, 14(1), 177-188.
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- Kremer, L. (2019). *Thermal Limits and Resilience of Hydropsyche oslari* (Banks) (Trichoptera: Hydropsychidae) in Fire-affected Upper Montane Grassland Streams. M.S. thesis, New Mexico State University.
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- Mendez, P. K., Myers, M. J., Damerow, J. E., Lew, C., & Resh, V. H. (2019). Species occurrence and distribution of Trichoptera (caddisflies) in California. *Zoosymposia*, 14(1), 113-133.
- Mendez, P. K., Spagna, J. C., Holzenthal, R. W., & Houghton, D. C. (2019). PREFACE: Proceedings of the 15th International Symposium on Trichoptera. *Zoosymposia*, 14(1), 6-15.

- Morse, J. C., Frandsen, P. B., Graf, W., & Thomas, J. A. (2019). Diversity and ecosystem services of Trichoptera. *Insects*, *10*(5), 125.
- Morse, J.C., Holzenthal, R. W., Robertson, D. R., Rasmussen, A. K. & Currie, D. C. (2019). Trichoptera. Pp. 585-784 *In* Merritt, R.W., K.W. Cummins, and M.B. Berg (eds.), *An Introduction to the Aquatic Insects of North America*, 5th edition. Kendall-Hunt Publishing Company.
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- Orfinger, A. B. (2019). Transfer of *Polycentropus harpi* Moulton and Stewart to *Plectrocnemia* Stephens (Trichoptera: Polycentropodidae). *Insecta Mundi*, *718*, 1-2.
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- Holzenthal, R. W., & Rios-Touma, B. (2018). *Nectopsyche* of Ecuador: a new species from the high Andean páramo and redescription of *Nectopsyche spiloma* (Ross)(Trichoptera: Leptoceridae). *PeerJ*, *6*, e4981.
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