



#### FAB Mission:

To provide a forum for the exchange of information and training for aquatic biologists and scientists in related disciplines

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### Volume 28, Issue 2

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### <u>ANNOUNCEMENTS – PART 1</u>

## Announcing the 34<sup>th</sup> Annual Meeting of The Florida Association of Aquatic Biologists

#### **December 2 and 3, 2020**

#### **Call for Papers and Posters**

The 34<sup>th</sup> Annual Meeting of the Florida Association of Aquatic Biologists (formerly Florida Association of Benthologists) will be held virtually beginning Wednesday December 2nd at 9AM and conclude by 4PM on Thursday December 3rd.

#### **Oral Papers and Posters**

We welcome oral presentations and posters on any topic pertaining to aquatic animals or plants and their taxonomy, systematics, ecology, biogeography, physiology, behavior, or other topics related to aquatic habitats, communities or populations. Papers or posters on methodology or experimental design are also appropriate and welcome. Submittals from students are particularly encouraged. Annual meeting information is on the FAB web site at:

https://www.floridaaquaticbiologists.org/events.html

Abstracts for papers and posters should be submitted digitally (in Microsoft WORD format) via email to Shannon McMorrow at president@floridaaquaticbiologists.org by Friday, November 20, 2020. Abstracts should be no more than one printed page in length; use Calibri (body) 11 point font.

#### Abstract format should be:

#### Title

Author(s) [If more than one author, please indicate presenting author with an asterisk (\*).]

Affiliation(s)

Body of abstract

If you have a preferred presentation date, please provide with your submission. We will try to accommodate all requests.



#### **Student Awards**

To be considered for a student presentation award, please submit your abstract to Shannon McMorrow (<a href="mailto:president@floridaaquaticbiologists.org">president@floridaaquaticbiologists.org</a>). Please indicate with your abstract submission that you wish to be considered for a student award, and whether you plan to present an oral talk or a poster. Also, please register online for our meeting so that we have your contact information. Registration fees will be waived for all student presenters. The following student awards are available:

#### **Student Presentation Awards:**

- Best Oral Presentation for a Graduate Student \$200
- Best Oral Presentation for an Undergraduate Student \$200
  - Best Poster Presentation \$100

#### Registration

You must register to attend the Annual Meeting and online registration is required. The deadline to register is November 30, 2020. To register online, please click <a href="here">here</a>. Registration fees are free for current FAB members, \$30.00 for non-members, and free for students. The \$30 registration fee for non-members will be applied to your 2021 membership dues. Please fill out and submit the registration form on our website so that we have your contact information. You can pay with a credit card on our website or fill out the registration form on our website and then mail a check (made payable to FAB) to: *Rob Mattson, FAB Treasurer, 121 Palm Trail, East Palatka, FL 32131*.

If you haven't paid your membership dues for 2020 yet, you can also add this item to your cart on our website to renew your membership for this year. If you need to check on your membership status, please email Rob Mattson: <a href="mailto:treasurer@floridaaquaticbiologists.org">treasurer@floridaaquaticbiologists.org</a>.

We will email a Google Meet invitation to the registered meeting attendees a day or two prior to the meeting. It is imperative that you register before November 30, 2020, so that we have time to email the Google Meet invitation to all the attendees.

#### Annual Business Meeting of the Florida Association of Aquatic Biologists

The Annual Business Meeting of the Association will be held on Wednesday, December 2 from 1:30-2:30 PM. This meeting is important for FAB as an organization and your participation is highly recommended and encouraged.

#### **Executive Committee Members**

The FAB Executive Committee will meet on Tuesday December 1, 2020 from 9:30 AM-12 Noon. A separate Google Meet invitation will be sent out.



#### **Meeting Location**

Annual Meeting will be held virtually via Google Meet. Prior to the meeting a Google Meet invitation will be emailed out to everyone who has registered. If you do not receive an invitation, please contact me at <a href="mailto:president@floridaaquaticbiologists.org">president@floridaaquaticbiologists.org</a>.

Questions regarding the Annual Meeting? Please contact:

Shannon McMorrow, President Florida Association of Aquatic Biologists (352) 333-3634 president@floridaaquaticbiologists.org

# The 2020 FAB Marine Taxonomic Workshop has been cancelled and will be rescheduled to Fall of 2021

## **Opistobranch Gastropods**

(primarily nudibranchs)

Dr. Michael Middlebrooks, Assistant Professor, Biology, University of Tampa



Michael Middlebrooks is a marine ecologist with an emphasis on photosynthetic kleptoplastic sea slugs. His research is particularly focused on how photosynthetic activity affects the behavior and ecological interactions for motile marine herbivores.

In addition, Tom Dix will present revisions on the Pyramidellids and Turbonillids

Workshop date and logistics will be announced next year on the FAB website



## In Memorium - Dr. Terry L. Erwin

Researcher and curator of the Coleoptera beetle collection at the Smithsonian National Museum of Natural History.



The famed entomologist, Terry L. Erwin, a prolific scholar who revolutionized the scientific understanding of the diversity of life on Earth and set up some of the world's first global conservation programs, died on May 11, 2020, at the age of 79. He is perhaps most famous for being the first person to use large-scale ecological sampling to predict that there may be up to 30 million species on the planet, a figure that was much higher than any previous estimates and one that revolutionized the study of biodiversity. Read more about Dr. Erwin's career <a href="here">here</a>.

Selected list of publications

## In Memorium - Dr. G. Wayne Minshall

Stream Ecologist at the Idaho State University since 1966





A giant in stream ecology for the last 50 years, his passion for streams was matched only by his love of wilderness and the students and colleagues with whom he shared it. Though most known for his work on the River Continuum Concept (RCC), Dr. Minshall published groundbreaking papers in many of the subdisciplines that have come to define stream ecology. He was also among the first stream ecologists to engage in land management and conservation work, bridging the perceived divide between "basic" and "applied" science, and navigating the connections between science and policy. Read more about Dr. Minshall here

List of publications

#### **ANNOUNCEMENTS – Part 2**



<u>International Code of Phylogenetic</u> <u>Nomenclature (PhyloCode)</u>

Two new books, "International Code of Phylogenetic Nomenclature (PhyloCode)" and "Phylonyms: A Companion to the PhyloCode outline a new naming system that defines scientific names based on evolutionary relationships.



The genus Palaemonetes is formally synonymised and all its constituent species transferred to Palaemon

De Grave, Sammy and Christopher W. Ashelby

<u>A re-appraisal of the systematic status of selected genera in Palaemoninae(Crustacea: Decapoda: Palaemonidae)</u>. Zootaxa 3734 (3):

331, 2013



Ecotoxicology Knowledgebase (ECOTOX)
Ecotoxicology Knowledgebase (ECOTOX), a
comprehensive, publicly available
knowledgebase providing single chemical
environmental toxicity data for over 12,000
chemicals and species, including aquatic life,
terrestrial plants, and wildlife.



Inside the world of macroinvertebrates
The SJRWMD has published macroinvertebrate
coloring pages for kids



## Early Detection and Distribution Mapping System (EDDS)



Real time tracking of invasive species, local and national distribution maps, library of identification and management information



Watch Rob Mattson's talk was on Benthic Macroinvertebrates of the Wekina river in celebration of the 20<sup>th</sup> Anniversary of designation of the Wekiva River as a Wild & Scenic River.

#### **Species Sensitivity Distribution Toolbox**



EPA scientists have developed the Species Sensitivity Distribution (SSD) Toolbox to help assessors determine potential risks from chemical exposure, while taking into account the range of sensitivities among different organisms.

## A large hypoxic event in the Gulf of Mexico associated with the 2018 red tide bloom



Howard T. Odum Center for Wetlands Seminar Eric Milbrandt, Marine Laboratory Director, Sanibel Captiva Conservation Foundation Sanibel, FL



'We're only alive for one day, and you had to schedule dinner with the hamiltons?



#### **CONFERENCES AND MEETINGS OF INTEREST**

- <u>Society for Freshwater Science</u> (SFS-aka NABS) 2020 Annual Meeting, Philadelphia, Pennsylvania. May 23-27, 2021
- <u>International Conference on Marine Biology and Oceanography</u> September 23-24, 2020, Vancouver, Canada
- Worldwide Dragonfly Association Paphos, Cyprus: 20–25th June 2021
- <u>2020 Floodplain Management Association</u> Virtual Annual Conference. September 8-11, 2020
- American Water Resources Association. Virtual Annual Conference. November 9-11, 2020
- American Water Resources Association. July 19 21, 2021, Denver, CO
- Crustacean Society Summer Meeting. <u>upcoming-meetings</u>, 2021 and 2022, Washington, DC, Paris, France and Brazil
- <u>International Conference on Aquaculture & Marine Biology</u>. April 19-20, 2021 Madrid, Spain
- Coastal and Estuarine Research Federation. Richmond, VA 7-11 November 2021
- Florida Lake Management Society, Virtual Meeting, beginning September 11. 2020
- Entomological Society of America Virtual Meeting. November 11-25, 2020
- <u>Joint International Conference On Ephemeroptera and Plecoptera</u>. Colorado State University, Fort Collins, Colorado, July 25 August 1, 2021

#### **LITERATURE**

Hyperlinks provided for downloads of entire article (if free access) or abstracts (if not free access)

- Babcock, K.K., Cesbron, F., Patterson, W.F. et al., 2020. <u>Changing Biogeochemistry and Invertebrate</u>
  <u>Community Composition at Newly Deployed Artificial Reefs in the Northeast Gulf of Mexico.</u> Estuaries and Coasts 43, 680–692
- Blake, James A. and Harlan K. Dean, 2019. New Species of Cirratulidae (Annelida, Polychaeta) from the Caribbean Sea. Zootaxa 4671(3):301-338
- Bouchard, Patrice, Yves Bousquet, 2020. <u>Additions and corrections to "Family-group names in Coleoptera</u> (Insecta)". ZooKeys 922 pp 65-139
- Boyko, Christopher B and Jason D. Williams, 2020. A new species of Parthenopea Kossmann, 1874 (Cirripedia: Rhizocephala: Parthenopeidae) from Florida: The first record of a rhizocephalan from a lobster (Decapoda: Nephropoidea) Proceedings of the Biological Society of Washington Volume 133, Issue 1



- Borkent, Art, Patrycja Dominiak, 2020. <u>Catalog of the Biting Midges of the World (Diptera: Ceratopogonidae)</u>. Zootaxa Vol 4787, No 1
- Cannizzaro, A.G., Balding, D., Lazo-Wasem, E.A. et al., 2020. <u>A new species rises from beneath Florida:</u>
  <a href="mailto:molecular phylogenetic analyses reveal cryptic diversity among the metapopulation of Crangonyx hobbsi Shoemaker, 1941 (Amphipoda: Crangonyctidae).">Crangonyctidae</a>). Org Divers Evol 20, 387–404
- Cannizzaro, Andrew G, Donna Balding, Michael Stine, Thomas R Sawicki, 2019. A new syntopic species of Stygobromus Cope, 1872 (Amphipoda: Crangonyctidae) from groundwaters in Georgia and Florida, USA, with notes on S. floridanus Holsinger & Sawicki, 2016. Journal of Crustacean Biology, Volume 39, Issue 4, Pages 407–418
- Cannizzaro, Andrew G; Donna Balding; Eric A. Lazo-Wasem; Thomas R. Sawicki, 2019. <u>A Redescription of Hobbs' Cave Amphipod, Crangonyx hobbsi Shoemaker</u>, 1941 (amphipoda: Senticaudata:

  <u>Crangonyctidae</u>), <u>Including Genetic Sequence Data For Mitochondrial and Nuclear Genes and Notes On Its Ecology</u>. Proceedings of the Biological Society of Washington 132 (1): 73–95
- Caradima, Bogdan, Peter Reichert, and Nele Schuwirth, 2020. <u>Effects of site selection and taxonomic resolution on the inference of stream invertebrate responses to environmental condition</u>. Freshwater Science, Volume 39, Number 2
- Coetzee, J.A., Langa, S.D.F., Motitsoe, S.N. et al, 2020. <u>Biological control of water lettuce</u>, <u>Pistia stratiotes L., facilitates macroinvertebrate biodiversity recovery: a mesocosm study</u>. Hydrobiologia
- Criales, Maria M, Ian C Zink, Michael B Robblee, Joan A Browder, 2020. <u>Seasonal abundance and diel behavior of roughneck shrimps (species of Rimapenaeus Pérez Farfante & Kensley, 1997) (Decapoda: Dendrobranchiata: Penaeidae) in northwestern Florida Bay, Florida, USA.</u> Journal of Crustacean Biology, Volume 40, Issue 5, Pages 498–511
- Dantas, Galileu P.S., Marcos P. G. Pinheiro, Neusa Hamada, 2020. <u>An unusual new species of Pentaneura Philippi (Diptera: Chironomidae) from northeastern Brazil, with an emended diagnosis to the genus</u>. Zootaxa Vol 4786, No 1
- Epler, J. H., 2020. A new species of Uvarus Guignot, 1939 (Coleoptera: Dytiscidae: Hydroporinae: Bidessini) from Florida, USA. Insecta Mundi A Journal of World Insect Systematics 0752
- Epler, J. H., Gimmel, Matthew L., 2019. <u>Notes On The Marsh Beetle Genus Ora Clark (Coleoptera: Scirtidae)</u>. The Coleopterists' Bulletin v.73 no.3
- Felder, Darryl L., 2020. A new crab of the genus Nanoplax from the Gulf of Mexico, and assignment of Micropanope pusilla to a new genus (Crustacea, Brachyura, Pseudorhombilidae). Zootaxa 4810 (3): 531–545
- Felder, Darryl L. and Brent P. Thoma, 2020. <u>A new genus and species of mud crab (Crustacea, Brachyura, Panopeidae) from shoreline waters of the western Gulf of Mexico. Zootaxa Vol 4845</u>, No 3
- Gathman, J.P., 2020. <u>Do Predators Structure Wetland Macroinvertebrate Assemblages? Different Effects of Mudminnows and Dragonfly Nymphs in Field Experiments</u>. Wetlands 40, 143–152



- Glon, Mael G., Susan B. Adams, Zachary J. Loughman, Greg A. Myers, Christopher A. Taylor, Guenter A. Schuster, 2019. <u>Two new species of burrowing crayfish in the genus Lacunicambarus (Decapoda: Cambaridae) from Alabama and Mississippi</u>. Zootaxa Vol 4802, No 3
- Grubbs, Scott A., Madeline L. Metzger, Summer We., 2020. <u>Systematics of eastern Nearctic Leuctra moha Ricker, 1952 with notes on L. hicksi Harrison & Stark, 2010 (Plecoptera: Leuctridae)</u>. Zootaxa Vol 4768, No 3
- Guareschi, S., Wood, P.J., 2020. Exploring the desiccation tolerance of the invasive bivalve Corbicula fluminea (Müller 1774) at different temperatures. Biol Invasions 22, 2813–2824
- Havens, K.E., Ji, G., Beaver, J.R. et al., 2019. <u>Dynamics of cyanobacteria blooms are linked to the hydrology of shallow Florida lakes and provide insight into possible impacts of climate change.</u> Hydrobiologia 829, 43–59
- Hoeksema, Bert W., Jaaziel E. García-Hernández, Godfried W.N.M. van Moorsel, Gabriël Olthof, Gabriël Olthof and Harry A. ten Hove., 2020. Extension of the Recorded Host Range of Caribbean Christmas Tree

  Worms (Spirobranchus spp.) with Two Scleractinians, a Zoantharian, and an Ascidian. Diversity, 12(3), 115
- Guggolz, T., Meißner, K., Schwentner, M. et al., 2020. <u>High diversity and pan-oceanic distribution of deep-sea polychaetes: Prionospio and Aurospio (Annelida: Spionidae) in the Atlantic and Pacific Ocean</u>. Org Divers Evol 20, 171–187
- Houghton, David C. and Ryan Lardner., 2020. <u>Ash-free dry mass values for northcentral USA caddisflies</u> (Insecta, Trichoptera). ZooKeys 951: 37-46
- Hribar, Lawrence, 2020. <u>Expanding Basic Entomological Knowledge by Using Mosquito Surveillance Bycatch</u>. Annals of the Entomological Society of America
- Karlen, David J., Thomas Dix, Barbara K. Goetting, Sara E. Markham, Kevin Campbell, Joette Jernigan, Julie Christian, Kirsti Martinez, Anthony Chacour, 2020. <u>Twenty-five-year Trends in the Benthic Community and Sediment Quality of Tampa Bay</u>, 1993 2017. Tampa Bay Benthic Monitoring Program Interpretive Report. Prepared for: Tampa Bay Estuary Program
- Krause, Meredith A., Thomas Koster, Bryan N. MacNeill, Daniel J. Zydek, Nicholas T. Ogburn, Jonathan Sharpin, Robert Shell, Marc J. Lajeunesse, 2020. <u>Diversity and Abundance of Dragonflies and Damselflies in Tampa Bay, Florida</u>. Florida Entomologist Vol. 103, No. 3
- Maguire, Z., Tumolo, B.B. & Albertson, L.K., 2020. <u>Retreat but no surrender: net-spinning caddisfly</u>
  (<u>Hydropsychidae</u>) silk has enduring effects on stream channel hydraulics. Hydrobiologia volume 847, pages 1539–1551
- Magris, Rafael A. and Natalie C. Ban, 2019. <u>A meta-analysis reveals global patterns of sediment effects on marine biodiversity</u>. Global Ecology and Biogeography, Volume 28, Issue 12
- Mahadevan, Padmanabhan and Michael L. Middlebrooks, 2020. <u>Bacterial Diversity in the clarki ecotype of the photosynthetic sacoglossan</u>, *Elysia crispata*. Microbiology Open
- Marks, Jane C., 2019. <u>Revisiting the Fates of Dead Leaves That Fall into Streams</u>. Annual Review of Ecology, Evolution, and Systematics, Volume 50, pp 547-568



- Marrón-Becerra, Aurora, Margarita Hermoso-Salazar, Gerardo Rivas, 2020. <u>A new species of the genus Hyalella</u> (Crustacea, Amphipoda) from northern Mexico. Zookeys 942: 1-19
- Monjardim, Marina; Roberta Paresque and Frederico F. Salles, 2020. <u>Phylogeny and classification of Leptophlebiidae (Ephemeroptera) with an emphasis on Neotropical fauna</u>. Systematic Entomology, Volume 45, Issue 2
- Murray-Stoker, Kelly M.; Darold P. Batzer; David Murray-Stoker and Joseph V. McHugh, 2019. Shifts in the community composition of caddisflies (Insecta: Trichoptera) in a subtropical river over three decades. Ecological Entomology, Volume 45, Issue 3
- Orfinger, Alexander B., David A. Etnier, 2020. <u>Polycentropus dinkinsorum (Trichoptera: Polycentropodidae), a newly described caddisfly species from the southern Appalachian Mountains, USA</u> Zootaxa Vol 4853, No 1
- Peixoto, A.J.M. & Paiva, P.C., 2020. New apinnate Prionospio (Annelida: Spionidae) species from southeastern Brazil. Zootaxa Vol 4853, No 4
- Peixoto, A.J.M. & Paiva, P.C. (2019) New Prionospio and Laubieriellus (Annelida: Spionidae) species from Southeastern Brazil. Zootaxa, 4577 (3), 529–547.
- Perez-Gelabert, Daniel E., 2019. <u>Checklist, Bibliography and Quantitative Data of the Arthropods of Hispaniola</u>. Zootaxa Vol 4749, No 1
- Ptatscheck, Christoph, Birgit Gansfort, Nabil Majdi, Walter Traunspurger <u>The influence of environmental and spatial factors</u>. Aquat Ecol (2020) 54:447–461
- Rabalais, Nancy N. and Melissa M. Baustian. <u>Historical Shifts in Benthic Infaunal Diversity in the Northern Gulf</u> of Mexico since the Appearance of Seasonally Severe Hypoxia. Diversity, 12(2), 49, 2020
- Rabalais, Nancy N. and R. Eugene Turner <u>Gulf of Mexico Hypoxia: Past, Present, and Future</u>. Limnology and Oceanography Bulletin Volume 28, Issue 4, 2019
- Rees, Tony, Leen Vandepitte, Bart Vanhoorne, And Wim Decock. <u>All genera of the world: an overview and estimates based on the March 2020 release of the Interim Register of Marine and Nonmarine Genera (IRMNG)</u>. Megataxa 001 (2): 123–140, 2020
- Rice, Christopher J., Christopher A. Taylor, Dusty A. Swedberg, and Robert J. DiStefano <u>Targeted microhabitat</u> sampling and its role in conserving endemic freshwater taxa. Freshwater Science. 39(2):334–346, 2020
- Richardson, John S., 2019 Biological Diversity in Headwater Streams. Water 2019, 11, 366
- Roel van Klink, Diana E. Bowler, Konstantin B. Gongalsky, Ann B. Swengel, Alessandro Gentile, Jonathan M. Chase. <u>Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances.</u> Science, 2020; 368 (6489)
- Roy T Sawyer, 2019. <u>Description of the Southern swamp leech Philobdella floridana (Verrill, 1874) (Annelida: Hirudinea) from the Outer Banks, North Carolina, USA, with a revision of the species</u>. Zootaxa 4544(2):189



- Stampa, S.N., Reimer, J.D., Maronna, M.M., Lopes, C.S.S., Ceriello H., Santos, T.B., Acuña, F.H. and Morandini, A.C. <u>Ceriantharia (Cnidaria) of the World: an annotated catalogue and key to species.</u> ZooKeys 952: 1-63, 2020
- Szalontai, Bálint, Szilvia Stranczinger, Attila Mesterházy, Robin W Scribailo, Donald H Les, Andrey N Efremov, Colette C Jacono, Laura M Kipriyanova, Krishan Kaushik, Alexey P Laktionov, Esteban Terneus, János Csiky, 2018. Molecular phylogenetic analysis of Ceratophyllum L. taxa: a new perspective. Botanical Journal of the Linnean Society, Volume 188, Issue 2, Pages 161–172
- van der Lee, G.H., Kraak, M.H.S., Verdonschot, R.C.M. et al. <u>Persist or perish: critical life stages determine the sensitivity of invertebrates to disturbances</u>. Aquat Sci 82, 24 (2020).
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- Vilela Cruz, Paulo; Carolina Nieto; Jean-Luc Gattolliat; Frederico; Falcão Salles and Neusa Hamada <u>A cladistic</u> <u>insight into the higher level classification of Baetidae (Insecta: Ephemeroptera)</u>. Systematic Entomology, Early View, 18 August 2020
  - White, Kristine N. <u>Simplification of a species complex: Two new species of Leucothoidae (Crustacea: Amphipoda) previously attributed to Leucothoe spinicarpa (Abildgaard, 1789) in Florida, U.S.A.</u>
    Journal of Crustacean Biology, Volume 39, Issue 6, Pages 739–747, November 2019

The inaugural issue of Megataxa released

Taxonomy

KINGDOM
PHYLUM
CLASS
ORDER
FAMILY
GENUS
SPECKS

16 papers on top questions in taxonomy, all free access

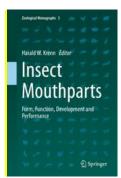
Proceedings of the 16th International
Symposium on Trichoptera
Zoosymposia, Vol 18, 2020



Proceedings of the Joint Meeting of the XV
International Conference on Ephemeroptera and
XIX International Symposium on Plecoptera



Zoosymposia Vol 16, 19 Dec. 2019



(also available on Amazon)



## Membership

If you would like to become a member of the Florida Association of Aquatic Biologists (FAB), membership is only \$30.00 and due February 15<sup>th</sup> of each year. Your membership is for one year: Jan 1– Dec 31. Click <a href="here">here</a> to become a member today! Once registered, you will receive email confirmation of your purchase. If you would like to pay your dues and register for a workshop, you may add them to your cart and they will be displayed as separate items on the receipt for easy bookkeeping. We accept major credit cards, or you may send your check, payable to FAB to:

Rob Mattson, Treasurer 121 Palm Trail East Palatka, FL 32131

### **REMINDER!!**

**CURRENT MEMBERS ANNUAL DUES!** 

Click to renew: Membersip Fees Due in February!

The End









