

Southern Division News



Striated Darter (*Etheostoma striatulum*)

Photography by Adam Walker, Tennessee Tech University

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- Arkansas South Carolina
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- Mississippi West Virginia
- North Carolina
- Oklahoma

Questions/Comments:

Caitlin S. Carey
 SDAFS Newsletter Editor
 cscarey@vt.edu

The President's Message Cindy Williams, SDAFS President

As we all continue to struggle with the new normal of working conditions, I'm reminded how much AFS and specifically the Southern Division is my stability rock. The SD Excom is working together to stay connected with the planning for the LIVE Annual Meeting of AFS in Baltimore Nov 6-10, 2021 and the SD Annual Meeting in Charleston January 20-23, 2022. I hope to re-connect with many of you there.

AFS has been working hard to develop and refine the Code of Conduct. The new policy and procedures have just been developed and we will

post it on our website once the ink is dry. Please remember to review the Code of Conduct prior to participation in any AFS function to protect all of our members.

As our Division and Chapter Presidents change, please remember to fill out the Change of Officer paperwork and submit them to Jess Bauman and Adrienne Vincent to keep our contacts up to date.

Our fisheries challenges continue to expand and increase with our changing climate, expansion of invasive species,

The President's Message (continued)

Cindy Williams, SDAFS President

increased numbers of imperiled and ESA listed species. There is never enough money, time, or people to do all of the work. AFS is where I learn what others are doing, where we can all have a safe exchange of ideas and science, and I'm proud to say, provide leadership to AFS from our Division as we expand our Diversity and Inclusion of all people to encourage participation in the wonderful world of fisheries and aquatic conservation. Our Division encompasses the most diverse habitats and species in North America. We can all be proud of the work you are doing to keep these habitats and populations going.



Cindy



UPCOMING MEETINGS



South Carolina Chapter
of the
American Fisheries Society



The 2022 Southern Division of the American Fisheries Society Meeting will be held in-person

January 20th–23rd, 2022 in
Charleston, South Carolina



The South Carolina Chapter of AFS has the distinct honor of serving as host chapter for the 2022 Meeting of the AFS Southern Division. This meeting will be in-person and is scheduled for **January 20th–23rd, 2022** in historic downtown **Charleston, SC**. After the unprecedented 2-year pandemic, we welcome the opportunity to enjoy comradery and science at the host hotel. Our planning committee has been busy creating an exciting program which will include workshops and symposia, concurrent technical sessions, and a trade show. Planned evening events will include socials with open air spaces to mingle and the grand social with our fish friends at the South Carolina Aquarium. The numerous meeting events, coupled with the myriad of things to do in Charleston, will make the 2022 Southern Division AFS meeting an event to remember! Be on the lookout for updates including calls for symposia and papers and registration information.

<https://sd.fisheries.org/the-2022-annual-southern-division-meeting-in-charleston-south-carolina/>

Student Volunteers Needed!

As part of the meeting the chapter will be requesting for students to help with the meeting (AV, registration, etc.). In exchange, the Southern Division will be providing hotel accommodations for those students. There will be a limited number of slots available. If you are interested, please continue to watch for the announcement. If you have any questions please contact **Keith Whalen** at james.whalen@usda.gov.

UPCOMING MEETINGS



South Carolina Chapter
of the
American Fisheries Society



Symposia and Workshops

**Southern Division American Fisheries Society Annual Meeting
January 19th–23rd, 2022 in Charleston, South Carolina**

Proposals are due by 31 August 2021

The South Carolina Chapter invites you to share your latest updates in fisheries science in historic downtown Charleston.

Call for symposia and workshops: The Program Committee solicits proposals for half-day and full-day symposia and workshops, which may be scheduled in two-hour blocks. Symposia and workshops may include individual presentations, panel discussions, hands-on demonstrations, or other formats. Contributed papers for symposia should be scheduled in 20-minute blocks, including time for questions and answers. Proposals should include symposium/workshop objectives, format, time required, audio-visual requirements, and a tentative list of topics and participants or the number of expected participants/contributions. Individual contributors to symposia will indicate their wish to be included in the symposium during abstract submission.

Symposium proposals should be submitted to Symposium & Plenary Chair **Brandon Peoples** at peoples@clermson.edu.

Workshop proposals should be submitted to Continuing Education and Technical Committees Chair **Troy Farmer** at tmfarme@clermson.edu.

All proposals for symposia and workshops should be submitted by **31 August 2021**.

UPCOMING MEETINGS



The American Fisheries Society, President Brian Murphy, and the Potomac and Tidewater Chapters are excited to host the [151st AFS Annual Meeting](#), now rescheduled for **November 6-10, 2021**. Baltimore, also known as “Charm City,” is famous for its blue crabs and crab cakes, as well as a vibrant cargo port and numerous nearby fishing opportunities in the Chesapeake Bay, Patapsco River, and Gunpowder Falls State Park. Baltimore will be a fantastic location to continue to commemorate 150 years of fisheries science achievements, so be sure to join us for special celebrations throughout the conference. The past, present, and future of fisheries science will be on display as we bring together professionals from across North America and countries throughout the world under the theme of “Investing in People, Habitat, and Science.” We will solicit symposia topics, contributed papers, and posters that exemplify the latest research in fisheries science and that will benefit a range of audiences with the aim of advancing the science of fisheries ecology, conservation, and management.

This year’s [Annual Meeting](#) is a hybrid event, with **in-person and virtual attendance options**. On-site presenters will be asked to upload a pre-recorded version of their talk, which will be available on demand for virtual attendees, as well as for any in-person attendees who could not attend the on-site session. All virtual presentations will be in a pre-recorded, on-demand format. The Plenary sessions and two symposia per day will be live-streamed from Baltimore for virtual attendees.

The deadline for [in-person early registration rates](#) is **Tuesday, August 31, 2021**.

UPCOMING MEETINGS



[151st AFS Annual Meeting](#) [Symposium Announcement](#)

Planning for Coldwater Fisheries Resources: Modeling and Managing Temperature Impairments

Dear Southern Division of AFS:

My name is Jonathan Leiman, I work for the Maryland Department of the Environment in Baltimore, Maryland. As the recently elected President of the Water Quality Section of AFS, I would like to invite Southern Division members to submit abstracts for the upcoming coldwater/temperature symposium at the annual meeting of the American Fisheries Society (AFS) this fall in Baltimore. The Water Quality and Fish Habitat Sections of AFS are sponsoring the symposium at the 2021 Annual Meeting.

My program at MDE, along with Maryland DNR and USGS researchers presented at the Southern Division AFS meeting this spring on cold water issues. I am hoping to carry some momentum forward for the national AFS meeting this fall to generate increased awareness with regard to coldwater resource conservation in the mid-Atlantic, USA and beyond. If you or partners/colleagues are interested in submitting abstracts, [the submission period ends August 16, 2021.](#)

Here is the link to the list of symposia abstracts, the symposium is "Planning for Coldwater Fisheries Resources: Modeling and Managing Temperature Impairments":

<https://afsannualmeeting.fisheries.org/preliminary-list-of-symposia/>

And the submission page for presentation abstracts:

<https://www.cvent.com/c/abstracts/4a7e0453-afce-456d-8f4a-5aa9924d0431>

Please consider submitting an abstract and helping to get the word out about the symposium to friends, partners and colleagues in the region and beyond.

All the best for a great summer,

Jonathan
President-elect, Water Quality Section of AFS

UPCOMING MEETINGS

Georgia Chapter of the American Fisheries Society 2022 Annual Meeting February 1 - 3

***Exchanging Ideas, Removing
Barriers, and Forging Partnerships
for Healthy Aquatic Ecosystems***

Join us as we share research and ideas relevant
to marine and freshwater finfish and shellfish
and their respective fisheries and environments

Call the Villas by the Sea Resort on Jekyll Island to make reservations
(912) 635-2521 Room rate # 514539

Visit our website for more information
gaafs.org

SDAFS COMMITTEE UPDATES

Resolution Committee Report

Have you got a resource issue the SDAFS can help you with? Do you want to enlist the help of others to deal with it? Then, why not consider writing a SDAFS resolution or suggesting a resolution topic or issue?

Chapters and Chapter Subunits are encouraged to submit resolutions for SDAFS membership consideration. Every fishery encompasses three essential elements: habitat, aquatic species and people. Any issue that impacts those elements may be worthy of a Division resolution. External or General Resolutions are those that place the views of the Division on record on matters of broad concern. Such resolutions follow the review, publication, notification, comment, and approval process before they are eligible for presentation to the membership for a vote. This process is found as a link at: <https://sd.fisheries.org/resolutions/>. Resolutions can be submitted at any time but they must be published in a SDAFS newsletter prior to the SDAFS Annual Business Meeting. Resolutions are voted on at the SDAFS Annual Business meeting.

All the SDAFS resolutions adopted since 2005 are posted on the SDAFS website at: <https://sd.fisheries.org/resolutions/>

Resolutions should be sent to [Dennis Riecke](mailto:dennis.riecke@wfp.ms.gov), Resolutions Committee Chairman [den- nis.riecke@wfp.ms.gov](mailto:dennis.riecke@wfp.ms.gov) (w. 601-432-2207).

Membership on the SDAFS Resolutions Committee is open to anyone who is a dues paying member of the AFS. Contact [Dennis Riecke](mailto:dennis.riecke@wfp.ms.gov) if you are interested in joining the committee.

Want to help the SD of AFS? Here's an Opportunity!!

Amanda Rosenberger has been Chair of the SDAFS **Student Affairs Committee** for 3 years, and needs some help as she transitions to other leadership positions in AFS. If you love to work with students, here's a great opportunity. The Committee organizes the Student Presentations at SD meetings, collects evaluations from volunteer Judges and ranks the scores to determine who gets recognition in a number of categories for Best Student Paper, Poster, and arranges lodging for meeting volunteers. If you are interested in helping out in this effort, please contact Amanda @ arosenberger@tntech.edu or one of the SDAFS Officers.

AWARDS & SCHOLARSHIPS



We need your help!! Back in June, the [Hutton Junior Fisheries Biology Program](#) launched its 2nd annual funding campaign called the [“Hutton Funding Challenge 2.0”](#)

Our goal for the [Hutton Funding Challenge 2.0](#) is to raise \$5,000 from 100 individual donors by September 1st, 2021

Since June, we have received almost \$1,500 in donations and we cannot reach our goal of \$5,000 without your participation! The Hutton Program relies on the support from our membership and program partners to offer internship placements and help inspire the next, more diverse, generation of fisheries professionals.



Jason, 2021 Hutton Scholar, learning to field sample by electrofishing with the Michigan Dept. of Natural Resources.



Demi, 2021 Hutton Scholar, helping collect crayfish with the Missouri Dept. of Conservation.

Continued on next page

AWARDS & SCHOLARSHIPS



[“Hutton Funding Challenge 2.0”](#) (continued)

This year marks the 21st year of AFS’s Hutton Program, which introduces students to the field of fisheries and aquatic science through an eight-week, hands-on summer internship. The goal of this program is to recruit and place minority and other underrepresented students in internships with AFS members to inspire the next generation of fisheries professionals. In 2021, we are happy to say that 27 Hutton Scholars are participating in internships across 17 states, including Puerto Rico and British Columbia.

Follow along as our Hutton Scholars are featured on [Instagram!](#) Give our page a like and a follow [@afshuttonprogram!](#)

AFS invests 100% of unit and membership donations to offer future Hutton Scholars more opportunities to experience the many different paths and careers within the fisheries profession. On behalf of the AFS Staff and the Hutton Program, we hope that you will consider joining our campaign by donating to our internship program.

You can donate now by [clicking here!](#) *As a reminder all individuals who contributed over \$150 to the Hutton Program are now a part of the [1870 Society](#).*



Anika, 2021 Hutton Scholar, and her field crew working in the Salmon-Challis National Forest with USDA Forest Service and Idaho Dept. of Fish and Game.



Painter, 2021 Hutton Scholar, learning about local catfish with the North Carolina Wildlife Resource Commission.

SDAFS CHAPTER & SUBUNIT UPDATES

STATE CHAPTERS

Georgia Chapter AFS



2021 Virtual Meeting Summary
Written by Jamie Roberts and Rebecca Brown

This past year certainly saw its share of ups and downs, and yet, plenty of great fisheries science and management was achieved throughout the Peach State, which we wanted to highlight through our 2021 virtual annual meeting. Our meeting theme, "Celebrating Georgia's Aquatic Diversity," provided an opportunity to highlight and celebrate not only our richly diverse fishes and aquatic resources but also the resilience of our fisheries biologists, technicians, teachers, students, researchers, and support staff, and the all-important relationships that knit our profession and our Chapter and Society together.

As always, our annual meeting would not have been possible without the tireless efforts of a number of chapter officers, committee chairs and members, and other volunteers, as well as the generosity of our financial sponsors Georgia Power, Georgia Southern University, Lake Specialist, and the University of Georgia Warnell School of Forestry and Natural Resources. Although things looked and felt a bit different than what we are accustomed to, the Zoom for-

mat also had some silver linings worth noting. For one thing, the format made our meeting accessible to out-of-state and even international attendees and presenters. Because of the reduced meetings costs, we were able to provide free registration to students, which we hoped would create some great learning opportunities and also help reach and grow future Chapter members. Despite the virtual format, we managed to keep traditional meeting favorites alive, including the awards ceremony, Fellowship of Christian Conservationists meeting, and fundraising events, in addition to some new events such as a keynote speaker, an online trivia contest, and a lunch-and-learn educational session.

The 2021 virtual meeting was attended by around 180 fisheries professionals and students from the United States, Canada, Australia, and Sri Lanka. The program included 33 oral presentations, 15 of which were by students, as well as 4 poster presentations. We featured a symposium on Georgia's Aquatic Connectivity, led by Dr. Jay Shelton of UGA. Our diversity of presentations included the use of robotics to model fish detection ranges at coastal reefs, using palmyra fruit pulp to improve fish feed, identification of organic contaminants in thresher sharks, an update on the aquatic biodiversity of the Upper Coosa, information about the new red drum high-reward tagging study in coastal Georgia, a habitat selection in darters and freshwater mussels. The complete program with abstracts can be found on our Chapter's website: <https://gaafs.org/2021-annual-meeting/>

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We are grateful to the Georgia Department of Natural Resources for allowing our use of their guest house at the Richmond Hill Fish Hatchery as a meeting command center. Our officers and program team managed the meeting from this location. The meeting kicked off with an informative and highly entertaining keynote presentation by Dr. Brett Albanese, Program Manager for Wildlife Conservation in the Georgia Department of Natural Resources. Additional new events included a “happy-hour style” online team trivia contest and a lunch-and-learn educational workshop facilitated by Dr. Cecil Jennings, Chapter member and AFS Second Vice President. Dr. Jennings’ live virtual session, “You, your



2021 Virtual Meeting Command Center Team: (from left to right) Chapter President Jamie Roberts, Chapter Co-Chair Arrangements Committee Brent Hess, Chapter Executive Secretary-Treasurer Rebecca Brown, Fundraising Chair Jackson Sibley, Chapter Recording Secretary-Treasurer Dawn Franco, and Co-Chair Arrangements Committee Kevin Cavallaro.

boat, and its trailer...Murphy was an optimist” was well attended and several of our participants also had a chance to share some of their experiences. We expect to continue to use these three new events as part of our future annual meetings.

Some of our Chapter’s 2020 highlights include adding active Twitter and Instagram accounts to our information-dissemination campaign, collaborative efforts between our Chapter and the Georgia Department of Natural Resources to create aquatic education outreach posters and an Aquatic Nuisance Species workbook (<https://gaafs.org/education-materials/>), and updating our website to include an “Education” section and a “Fish Careers” section. The “Education” (<https://gaafs.org/education/>) section includes information about workshops, education materials for K – college educators, outreach events, and a map of colleges and technical schools in Georgia that offer opportunities for students to pursue an education which will help them earn a job related to fisheries science. The “Fish Careers” (<https://gaafs.org/fish-careers/>) section includes information about different careers associated with fisheries and strategies to help improve your candidacy when applying for a fisheries job. Both of these new additions to the website can better inform high school and undergraduate students about college Fisheries programs and people across the state, and career opportunities in the field.

SDAFS CHAPTER & SUBUNIT UPDATES

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Georgia Chapter AFS 2021 Awards Ceremony

COVID-19 brought about many new challenges including how we could best recognize those who have contributed so much to the advancement of fisheries science and being champions of aquatic conservation. We had a live virtual awards ceremony which we then created a video and posted it to our website: <https://youtu.be/MMmSwzQmKPg>

Georgia Chapter AFS Professional Award Recipients

Certificate of Appreciation

- Richmond Hill Fish Hatchery

Distinguished Service Award

- Jackson Sibley
- Chalisa Fabillar

Career Contribution Award

- Bill Davin
- Rusty Garrison
- Dominic Guadagnoli
- Roger Harrell
- Pat Markey
- Paul Jones
- Donna Wilson

Unsung Hero Award

- Dylan Severens
- Cindy Smith
- Amy Smith



Fisheries Conservationist of the Year

- Jim Page (Winner)
- Katie Owens (finalist)

Fisheries Professional of the Year

- Jason Mitchell (winner)
- Tony Beck (finalist)
- Greg Abercrombie (finalist)

Chapter President Award

- Rebecca Brown

AFS Certificate of Appreciation

- Jamie Roberts, GA AFS 2020 Chapter President



(above) Greg Abercrombie,
2021 Finalist for FPY

(left) Dylan Severens,
2021 Unsung Hero Award

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SDAFS CHAPTER & SUBUNIT UPDATES

(Continued from page 13)



Roger Harrell (left) Career Contribution Award nominated by Chris Harper (right)



The Georgia Chapter also recognized students for outstanding research and presentations at the virtual annual meeting. All of the students did a great job with their presentations.

Student Oral Presentation Awards

- First Place: Brendan Dula (UGA Warnell School of Forestry and Natural Resources) *Effects of Hurricane Michael on annual recruitment, mortality, and behavior of Gulf Sturgeon in the Apalachicola River, Florida*
- Second Place: Frank McQuarrie (UGA College of Engineering) *Acoustic covers without the guitars: Using robots to model fish detection range at coastal reefs*
- Third Place: Lauren Moniz (Georgia Southern Department of Biology) *Lipid metabolites as energy stores in stingrays*

Student Best Poster Award

- Piper Rackley (Georgia Institute of Technology, intern with Kady Lyons at GA Aquarium) *Organic contaminants in two species of thresher sharks*

Ronnie J. Gilbert Scholarship

- Brendan Dula (UGA Warnell School of Forestry and Natural Resources)

Georgia Chapter AFS Scholarship

- Bryson Hilburn (UGA Warnell School of Forestry and Natural Resources)

Georgia Chapter AFS Annual Fundraiser

Over the past several years our fundraising chair, Jackson Sibley, has done an excellent job of recruiting donations for our annual fundraiser that we are able to support

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SDAFS CHAPTER & SUBUNIT UPDATES

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Jason Mitchell,
2021 Fisheries
Professional of
the Year

GAAFS Annual Fundraiser (continued)

....aquatic education outreach events, donate money to help support the Georgia Department of Natural Resources Go Fish Education Center classroom, and provide additional funding for aquatic restoration projects around Georgia. Fortunately, COVID-19 did not have a major negative impact on our fundraising efforts. Although a few of our traditional donors were unable to contribute this year, we added several new ones, and thanks to our fundraising donors and the participation of our Chapter members, we were able to raise \$3,136.87.

The 2021 – 2022 Executive Committee Members are:

- President – Robert Bringolf
- President-Elect – Marion Baker
- Recording Secretary-Treasurer – Dawn Franco
- Executive Secretary-Treasurer – Rebecca Brown
- Past President – Jamie Roberts
- *Ex Officio* – Cecil Jennings

The Georgia Chapter is looking forward to what we can accomplish in 2021! We plan to grow our aquatic education outreach efforts to provide more resources for K – college educators and hopefully offer an in-person workshop towards the end of the summer. We are excited about reinventing our annual meetings and will be planning to introduce some of what we did during the 2021 virtual meeting to our 2022 annual meeting agenda.



Jim Page,
2021 Fisheries
Conservationist
of the Year

SDAFS CHAPTER & SUBUNIT UPDATES

STUDENT SUBUNITS

University of Tennessee

The University of Tennessee, Knoxville (UTK) AFS student subunit is in a joint organization with the UTK Wildlife Society student chapter. Together, this organization is referred to as the UTK Wildlife and Fisheries Society (UTKWFS).

Despite the challenges posed by COVID-19, our organization was able to safely provide students with engaging educational opportunities in both virtual and in-person settings. We are extremely grateful for the professionals who donated their time and shared their invaluable insight and advice with us. We look forward to carrying the momentum we have built this spring into a safe return to campus and full in-person meetings this fall.

In late February, several members attended the Tennessee American Fisheries Society (TNAFS) virtual conference. Our members took this conference as an opportunity to learn about relevant research that is happening across the state. Several of our members presented their research. We would like to congratulate members Zach Clark and Robby Cogburn for taking home first and second place, respectively, for Best Student Poster.

In March our members volunteered with Jeff Wright, the southeast coordinator for Trout Unlimited, to learn Brook Trout habitat assessment techniques in Cherokee National Forest. Our subunit also had the opportunity to hear from outside guests who work with different agencies and organizations in the career field. One of the first was Tennessee Valley Authority (TVA) biologist Jon Michael Mollish. In his seminar, he discussed with members about his career path and what his job entails with TVA.

In other volunteer news, our club was able to continue our ongoing effort to beautify our local waterways with a great showing at our Third Creek Clean-up. Members were able to remove an impressive amount of trash from Third Creek at Tyson Park. After the clean-up, Tyler Hecke taught members how to use a seine for stream sampling.

Our guest speaker for the month of April was USFWS Fisheries Biologist Emily Judson. Emily works out of Ketchikan Misty Fjords Ranger District of the Tongass National Forest in Alaska. She shared great career advice and plenty of insight into the challenging and rewarding aspects of her job.

Later in April we were able to send members to the Southern Division American Fisheries Society (SDAFS) virtual conference. Our subunit was honored with the award for Best ...

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SDAFS CHAPTER & SUBUNIT UPDATES

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...Student Subunit. Members Kyler Hecke, Robby Cogburn, and Zach Clark presented research at the conference. Students were able to attend numerous workshops and seminars regarding the most pressing conservation topics in the southeast.

Our society also had the chance to have our own graduate student Kyler Hecke present a workshop titled "Snorkeling for Science." In this presentation, which was attended by 11 members, Kyler shared an introduction to the basics of snorkeling as a sampling method for fishes and mussels. Students who attended had the chance to attend the in-person field portion of the workshop and put these learned skills into practice.

Several members participated in the ongoing Pigeon River Recovery Project in May. This effort included backpack electrofishing in the French Broad River for ~200 Mountain Madtoms, which were then successfully translocated into the Pigeon River. This event provided students with a great opportunity to collaborate and network with professionals from TDEC, TVA, and TWRA.

Our club would like to congratulate member Kyler Hecke for successfully defending his Ph. D dissertation. Kyler has made a big impact here at UTK and we will certainly miss him as he forges his path forward at Arkansas Tech University. Thank you Kyler!

Tennessee Tech University

Photography by Adam Walker,
Master's Student at TN Tech



© Adam L. Walker

SDAFS CHAPTER & SUBUNIT UPDATES

Clemson University

Nationwide study conducted by Clemson University graduate students to identify barriers limiting access and participation in field experiences for environmental and natural resource undergraduate students was highlighted in the news and recently published in BioScience.

[Click here to read the Clemson News article](#)

Link to the paper:

[“Attracting Diverse Students to Field Experiences Requires Adequate Pay, Flexibility, and Inclusion” in BioScience](#)

PUBLICATIONS & BOOKS

Bagsit, F.U., E. Frimpong, R.G. Asch, and H.M. Monteclaro. 2021. **Effect of a Seasonal Fishery Closure on Sardine and Mackerel Catch in the Visayan Sea, Philippines.** *Frontiers in Marine Science* 8:640772. Available at: <https://doi.org/10.3389/fmars.2021.640772>

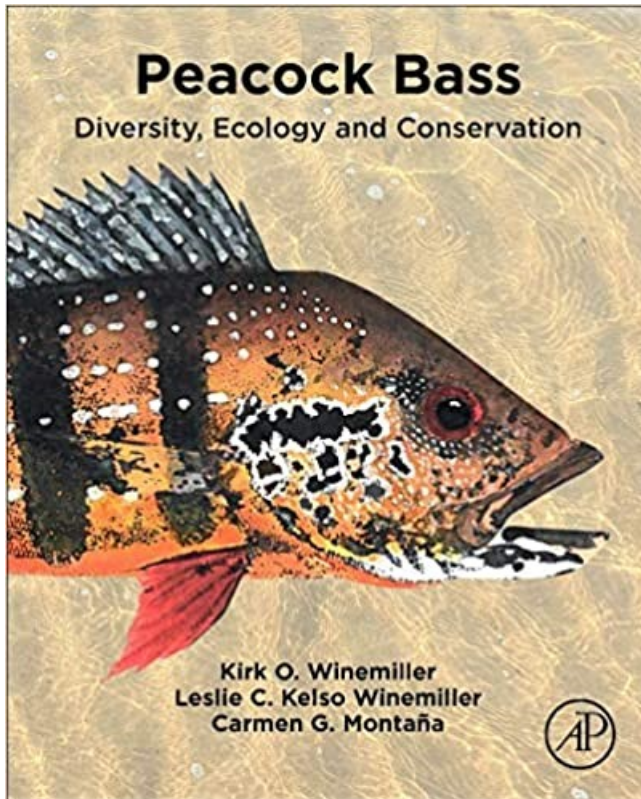
Dwivedi, A.K. 2021. **Morphometric Assessment of Golden Mahseer Populations in the Ganga River Basin, India.** *Fisheries* 46:188–200. Available at: <https://doi.org/10.1002/fsh.10560>

Dwivedi, A.K. 2021. **Role of digital technology in freshwater biodiversity monitoring through citizen science during COVID -19 pandemic.** *River Research and Applications* 2021:1–7. Available at: <https://doi.org/10.1002/rra.3820>

Jensen, A.J., S.P. Bombaci, L.C. Gigliotti, S.N. Harris, C.J. Marneweck, M.S. Muthersbaugh, B.A. Newman, S.L. Rodriguez, E.A. Saldo, K.E. Shute, K.L. Titus, A.L. Williams, S.W. Yu, and D.S. Jachowski. 2021. **Attracting Diverse Students to Field Experiences Requires Adequate Pay, Flexibility, and Inclusion.** *BioScience* 71:757–770. Available at: <https://doi.org/10.1093/biosci/biab039>

PUBLICATIONS & BOOKS

Tuckey, T.D., J.L. Swinford, M.C. Fabrizio, H.J. Small, and J.D. Shields. 2021. **Penaeid Shrimp in Chesapeake Bay: Population Growth and Black Gill Disease Syndrome.** *Marine and Coastal Fisheries* 13:159–173. Available at: <https://doi.org/10.1002/mcf2.10143>



Winemiller, K.O., L.C.K. Winemiller, and C.G. Montaña, editors. 2021. **Peacock Bass: Diversity, Ecology and Conservation.** Elsevier (Academic Press). Available at: <https://doi.org/10.1016/C2020-0-01799-8>

DESCRIPTION: Peacock Bass: Diversity, Ecology, and Conservation is a unique scientific reference that describes not only the diversity and natural history of the various peacock bass species (fish in the genus *Cichla*) but also their geographic distributions, evolutionary relationships, ecology, and economic importance. Peacock bass are the most popular sport fish pursued by recreational anglers in tropical freshwaters, and they support important fisheries in rivers and lakes in their native South America as well as other regions of the world where they have been introduced. The book is written in clear prose that allows any reader to appreciate key features of the morphology, population genetics, and reproductive biology of these colorful tropical freshwater fish. Each chapter begins with a vignette introducing an aspect

of peacock bass taxonomy, ecology, or conservation based on a personal account from one of the authors. Also included are color photographs of peacock bass, their habitats, other tropical fishes, and the diverse wildlife encountered in rivers and forests of the Neotropics. Photographic guides and detailed descriptions of coloration patterns are provided for species identification, along with distribution maps and essential information related to fisheries management and the economic importance of peacock bass. Biologists interested in zoogeography and the ecological role peacock bass play as major predators in biodiverse rivers and lakes will find summaries of the latest information. Peacock bass have grown in popularity among aquarists, and the book provides basic information about captive care and environmental conditions in their natural habitats. This book is essential reading for biologists, fisheries managers, anglers, naturalists, and aquarists interested in these remarkable fish and the diverse tropical rivers they inhabit.

Available for purchase on Amazon: <https://www.amazon.com/Peacock-Bass-Diversity-Tropical-Predators/dp/0323851576>

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