

Lab Lines

SEPTEMBER 2017

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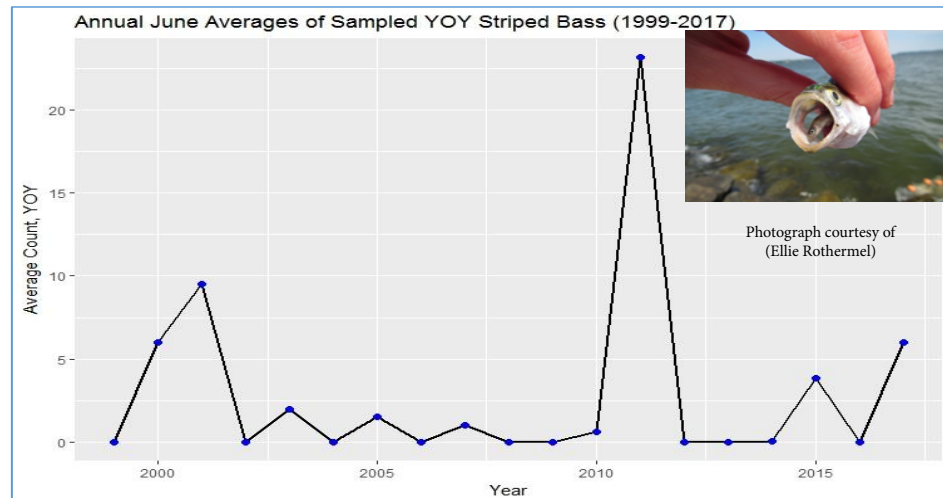
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June In-Seine!

by Caroline Wiernicki

It's been a wild summer so for the Secor Lab's annual seine survey! June saw our third highest counts for young-of-the-year (YOY) striped bass, for a total of 78 stripers taken across 13 hauls! June's surveys also saw 15 bluefish, 123 spot, 2 northern pufferfish, and 12—very lively—cownose rays, among other species. July wasn't been boring either, introducing (but not limited to) 29 needlefish, 3 gizzard shad, a northern kingfish, and a promising count of 120 YOY striped bass. August winded down with sightings of hogchoker, juvenile horseshoe crabs, and some of our highest counts of halfbeaks (136 in the first three weeks!) A big thank-you and shout-out to Erin Crandall, Hannah Degenford, Hunter Hughes, Brooke Iacone, Robert Jarrett, Danci Johnston, Ginni La Rosa, Joe Molina, Connor Neill, Jacob Oster, Dani Quill, and Edwin Sanchez for (literally) jumping in to the June-August surveys and making sure this eighteenth year of the study stays afloat. Check out next month's newsletter for more updates on the fall season's seines!

Dr. Mario Tamburri received an award from National Science Foundation International (June 1, 2017 through December 31, 2018) The title for this project is: *MERC Land-Based Testing of the Jiangsu Nanji Ballast Water Management System*.

Dr. Helen Bailey received an award from the Department of Natural Resources, Chesapeake Coastal Service (January 1, 2017 through May 31, 2018). The title for this project is: *Determining Offshore Use by Marine Mammals and Ambient Noise Levels Using Passive Acoustic Monitoring-Additional Monitoring*.

Dr. Mario Tamburri received an award from Commerce, National Oceanic and Atmospheric Administration (NOAA) (June 1, 2016 through May 31, 2018). The title for this project is: *The Alliance for Coastal Technologies: National Scale Efforts Toward Evaluation of Observing Technologies*.

Dr. Jeremy Testa received an award for additional funding from Commerce, National Oceanic and Atmospheric Administration (NOAA) (September 1, 2015 through August 31, 2018). The title for this project is: *OA 2015 Interactions Between Ocean Acidification and Eutrophication in Estuaries: Modeling Opportunities and Limitations for Shellfish Restoration*.

Drs. Carys Mitchelmore, Andrew Heyes and Michael Gonsior received an award from the Personal Care Products Council (PCPC) (August 1, 2017 through December 31, 2017). The title for this project is: *Determining Concentrations of Oxybenzone (BP-s) in Coastal Waters, Sediment and Coral Tissue in Hawaii*.

Drs. Lora Harris, Andrew Heyes, Jeremy Testa, and Laura Lapham received an award from the National Science Foundation (September 1, 2017 through August 31, 2020). The title for this project is: *Impacts of Engineered Destratification on Estuarine Biogeochemistry*.

Drs. Lisa Wainger and Tom Miller received an award from Commerce, National Oceanic and Atmospheric Administration (NOAA) (July 1, 2017 through June 30, 2019). The title for this project is: *Ecosystem Based Management: An Analysis of National Needs and Opportunities [the Cooperative Institute for the North Atlantic Region (CINAR)]*.

Drs. Lisa Wainger and Ryan Woodland received an award from Department of Defense, National Geospatial Agency (NGA) (September 1, 2017 through August 31, 2018). The title for this project is: *Assessing Return on Investment of DoD Environmental Management Programs*.

Luek, J.L., Thompson, K.T., Larsen, R.K., **Heyes, A.H, Gonsior, M.** 2017. *Sulfate-Reducing Bacteria Produce High Levels of Chromophoric Dissolved Organic Matter*. Scientific Reports 7: 8829. DOI: 10.1038/s41598-017-09223-z.

Dr. Solange Filoso is the leading author of a new paper available at: <http://journals.plos.org/plosone/article/comments?id=10.1371/journal.pone.0183210> *Impacts of forest restoration on water yield: A Systematic Review*. The article was published last week in PLOS ONE and will be featured at a blog at the International Union for Conservation of Nature (IUCN).

Dr. Solange Filoso is also a co-author in an article that is now in press, and which has been written by a student in Brazil involved in a project that she developed with her colleague Dr. Silvio Ferraz from the University of São Paulo. The article is entitled *The Native Vegetation Protection Law of Brazil and the challenge for first-order stream conservation*. Journal: Perspectives in Ecology and Conservation.

Gel, Y. R., **Lyubchich, V.**, and Ramirez Ramirez, L. L. (2017). *Bootstrap quantification of estimation uncertainties in network degree distributions*. Scientific Reports 7: 5807.

HUMAN RESOURCES

The Gonsior lab has a Fulbright research fellow who will be at CBL for the next nine months. Mathapelo is a Chemistry Doctoral student at the Tshwane University of Technology in South Africa, where her research focuses on the chemistry of the environment, particularly on the analytical detection and quantification of persistent organic pollutants. Help us welcome Mathapelo!

Welcome New Students: Juan Alvarez, (Dr. Harris), Drew Hobbs, (Dr. Testa), Hunter Hughes, (Dr. Kilbourne), Ella Rothermel and Caroline Wiernicki, (Dr. Secor) and Chelsea Wegner, (Drs. Grebmeier and Cooper).

Congratulations to Taylor Hollady who was promoted from hourly to FRA II.

STUDENT ACHIEVEMENTS

Erin Markin, UMCES PhD student (Fisheries, D. Secor advisor), successfully defended her dissertation, "*Atlantic sturgeon growth responses to dual spawning, latitudinal thermal regimes, and Chesapeake Bay environmental stressors*" on 13 July. She is currently employed at NMFS Protected Resources as regulatory biologist.

OUTREACH

Fall 2017 Science for Citizens seminars: <http://www.umces.edu/cbl/science-citizens>

September 26, 2017 - Economic Benefits of a Healthy Chesapeake Bay

October 03, 2017 - Drug Discovery from the Marine Environment

October 10, 2017 - The Science Behind Sustainable Seafood

October 17, 2017 - Ballast Water Invasive Species: The Science of Environmental Regulations

October 24, 2017 - How Do We Tackle Large Environmental Questions?

As a part of National Estuaries Week, on September 21st CBL and Harris Lab are partnering with the American Chestnut Land Trust to host a guided canoe trip of Parkers Creek that will highlight Harris Lab's water quality monitoring and sea level rise research.

DEVELOPMENT

The Chesapeake Biological Laboratory will host an **Open House, Saturday, September 9, 2017** from 1:00 to 5:00 p.m. Dr. Miller has invited the public to "Come tour the campus, visit labs, learn about the work, and meet many of the researchers." Exhibits and hands-on activities include: research demonstrations, dockside tours of the research vessel the Rachel Carson, driving an underwater robot, and a scientist selfie station. Children attending the Open House receive a passport and move through the different labs and experiments to have the passport stamped for prizes.

Please join us on Saturday, November 4 to attend *A Sense of Wonder* Fundraiser at 8:00 p.m. (reception at 7:00 p.m.) at the Solomons Holiday Inn. Tickets are \$30-\$40 available on Eventbrite: <http://bit.ly/Sense-of-Wonder>.

PLAY BALL

Volleyball is every Tuesday at 5:00 p.m., weather permitting.

Soccer pick up games have been cancelled.

Mansueti Building Closure

Reminder: The Mansueti building is closed for renovation. Please do not enter the building without first contacting Brian or Stacy.

Keyless Campus Project

The transition to a keyless campus is underway! Stay tuned for details on the schedule for building and door modifications coming soon to a building near you!!

Big Thank You & High Five

Thanks to Dale, Jeremy and Lance for volunteering their time to keep the CBL sponsored landscaping circle along the Solomons Boardwalk looking fabulous. If anyone is interested in helping us with the weeding and watering, please let me know.

New & Improved!! Work Orders

We now have an interactive form available from our website to submit a request for services. If the sink is dripping, the door squeaks, lights needs fixed, anything other than an immediate issue (like the toilet is overflowing) you can now submit it directly. You can also submit a work order directly to the IT department. The online form can be found on the UMCES website by clicking “My UMCES” the scrolling to the CBL page, or by following this link: <http://www.umces.edu/cbl-forms>, **Please remember!** If you have a critical issue, please call 410-326-7333 and report the situation for immediate response.

Vehicles:

University vehicles need to be kept secure and/or in areas that we can monitor. If you reserve a campus vehicle, please:

- Return the car to the Maintenance Building if returning during business hours and turn the keys in to Trish or Brian.
- If returning after hours, please park the vehicle in the Truitt parking lot only – if you’ve used the Volt, plug it in. Please do not leave the keys in the vehicle. Keep the keys with you or take them to your office and turn them in the next day. We do not have key boxes on campus.
- Please remember it is your responsibility to pick up the keys prior to close of business (and returning them.) You are renting a vehicle, a quick stop at the “rental desk” is necessary.



WHO'S ON TRAVEL



Dr. Dong Liang traveled to Fort Lauderdale, FL to present a paper on Blue Crab Estimation at ICES Annual Science Conference.

Dr. Slava Lyubchich traveled to Bergamo, Italy to organize an invited session on “*Advances in Time Series*

Analysis for Environmental Monitoring” and to present a talk at the 27th Annual Conference of The International Environmetrics Society (ITES-2017). Dr. Lyubchich also traveled to Baltimore, MD to organize an invited session “*Analysis of Complex Random Networks on the Guard of National National Security*” and to give a talk at the Joint Statistical Meetings (JSM-2017). Dr. Lyubchich was also an invited panelist at the opening workshop of the Program on Mathematical and Statistical Methods for Climate and the Earth System (CLIM) at SAMSI, NC.

Dr. Carys Mitchelmore gave a talk at a US Congressional briefing/hearing on July 27. This hearing was sponsored by Representatives Conyers and Blumenauer’s offices, and currently over 30 representatives have signed on to support the Bill which seeks to ban the use of neonicotinoids in pesticides. Dr. Mitchelmore talked about the details on the impacts and potential future impacts of neonics to aquatic invertebrates species such as caddisflies and mayflies that species are important leaf litter breakdown and nutrient recyclers. View the flier: [EmailInvite1_pesticide_DC_july2017_final.pdf](#).

Dr. Michael Gonsior received an honorable mentioning to the Masao Horiva Award 2017. Dr. Gonsior will travel to Kyoto, Japan in October. View the web page: <http://www.mh-award.org/en/>.

Dr. David Secor helped prepare and present the Atlantic States Marine Fisheries Commission Atlantic Sturgeon Stock Assessment for peer review in Raleigh NC during the week of 14 August. That assessment was subsequently endorsed by the review committee. That same week he also participated in the Atlantic mackerel assessment modeling workshop at Northeast Fisheries Science Center in Woods Hole.

Drs. Genevieve Nessler and Michael Wilberg will be traveling to Arlington, VA to present to ASMFC results of their MD Sea Grant project on Atlantic Menhaden.

Dr. Mario Tamburri traveled to Melbourne, Victoria, Australia to attend the Third ANZPAC Workshop on Biofouling Management for Sustainable Shipping in Melbourne, Australia.

Dr. Michael Wilberg traveled to Tampa, Florida to present at the American Fisheries Society Annual Meeting.

Dr. Lora Harris will travel to Houston, TX to attend a meeting as a member of the Edwards Aquifer NAS Committee Phase III.

UPCOMING EVENTS



- **Chesapeake Biological Laboratory Open House**
Saturday, September 9, 2017 - 1:00 to 5:00 p.m.
- **Health Benefits Fair**
Thursday, September 28, 2017 - 10:30 a.m.
BFL 1101 and lobby
- **Waterman’s Docking Festival**
Saturday, September 17, 2017
- **A Sense of Wonder Fundraiser (A one woman show about the Rachel Carson)**
Saturday, November 4, 2017 - 8:00 p.m.
Solomons Holiday Inn, Solomons, MD