

Lab Lines

JUNE 2017

IN THIS ISSUE:

FEATURE ARTICLE 1

ACHIEVEMENTS/
OUTREACH/NEW
PERSONNEL/FACILITIES /
SUSTAINABILITY/PLAY BALL

PUBLICATIONS/TRAVEL/
UPCOMING EVENTS 3



Members of the 2016 NY-DEC and Secor Lab drawing in one end of a haul seine at a sampling site on the Hudson; not pictured--the DEC boat stretching out the other end of the net; the two will gradually meet to pull in both ends of the seine on the beach, hopefully pulling in striped bass as well! (Photo courtesy of Dr. David Secor).

FEATURE ARTICLE

Apparently they Prefer Volkswagens: Notes on Striped Bass Migration in and about the Hudson River

by Caroline Wiernicki - FRA, Dr. Dave Secor Lab

Striper, 1, Caroline, 0. I jerk back my hands and duck. Not quick enough. The cold water hits me square in the face, and, with farewell wag of her tailfin, the bass—*Morone saxatilis*, though the name I've given her has four letters—noses down towards the bottom of the float-pen. I'm left with empty hands, a spine in the base of my thumb, and a dirty look on my face; but she's already disappeared, splashing away under the bodies of her equally disgruntled net-mates. It's a hazy day on the Hudson, where both Ella Rothermel—a master's student in the Secor Lab—and I have been assisting the New York State Department of Environmental Conservation (DEC) with their fisheries unit's field season targeting striped bass and shad.

For the past two weeks, we had been working with the Hudson River Fisheries Unit (HRFU), getting (often literally) waist-deep in their projects monitoring local populations of striped bass and American shad. More specifically, these projects track the movements and locations of each species as the fish enter the Hudson each spring to spawn. Both American shad and striped bass are anadromous—meaning they migrate from salt to freshwater to reproduce. Spawning adults leave the Atlantic for the Hudson during the spring. Similar to the work done in the Chesapeake by the Secor lab, the Hudson team follows the movements of both species with a system of internal and external tags. The team-members are actually able to physically track larger adult striped bass, either via acoustic receivers placed at stationary points within the river—such as buoys or bridge pilings. Sometimes we use hydrophones pulled through the water by boat, allowing the researchers to essentially locate and “follow” a tagged fish from the surface in real time. However, in order to tag a striped bass, one must first actually have a striped bass on hand. That's where Ellie and I come in.

Read more about Caroline and Ella's experience at [P:\Newsletter Article\StriperHudsonBlog2017.pdf](#).

ACHIEVEMENTS

Dr. Viacheslav Lyubchich received recognition for being a judge at the 2017 GLOBE International Virtual Science Symposium. The Global Learning and Observations Benefits the Environment (GLOBE) Program is an international science and education program that provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and global environment. GLOBE is sponsored by NASA and supported by NSF, NOAA, and the US Department of State.

OUTREACH

Visitor Center and Campus Tours

In June, Chesapeake Biological Laboratory Visitor Center will be open Wednesday – Sunday from 9:30am – 4:30pm.

Free Campus Tours are offered to the public on Fridays at 2:00 pm in June. Learn more about Campus Tours on the Visitor Center webpage: <http://www.umces.edu/cbl/visitor-center>.

Volunteers

If you or someone you know are interested in volunteering in the Visitor Center, please review the following volunteer information and contact the Outreach Coordinator: <http://www.umces.edu/cbl/volunteer-opportunities>.

Speakers Bureau

The Chesapeake Biological Laboratory's faculty conduct a wide variety of research that is of interest to everyone, and many of our faculty members are willing to present their research at community events or for civic organizations. To facilitate requests from individuals who would like to have CBL faculty members speak at group meetings or events, a "Speakers Bureau" webpage, containing faculty member names and presentation titles, has been created on the CBL website: <http://www.umces.edu/cbl/speakers-bureau>.

FACILITIES & SUSTAINABILITY

Beaven Hall: Expect a reopening in mid-June!

Mansueti: Bids are being reviewed and the project is back on track with an early July start expected.

BFL: Seminar room 1101 & classroom 1120 are closed for renovations.

Safety Reminders: Tis the Season for tourists. As you arrive/depart campus, please pay close attention to pedestrians crossing Williams Street and Charles Street and be mindful of the speed limit.



High Five Club: Did you carpool, ride a bike or drive a hybrid car in April? If so, drop Stacy an email so you can collect your High-Five Prize!

NEW PERSONNEL

Dr. Chunqi Shen, Assistant Research Scientist started working with Dr. Jeremy Testa in the beginning of May.

PLAY BALL

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



PUBLICATIONS

Roullier-Gull, C., Hemmler, R.D., **Gonsior, M.**, Li Y., Nikolantonaki, M., Aron, A., Coelho, C., Gougeon, R., Schmitt-Kopplin, P. *Sulfites and the Wine Metabolome*. Food Chemistry. 2017.

Pereiral, A., Sial, R., Ullman, C., Korte, C., Kikuchi, R., Ferreira, V., **Kilbourne, K.** *The Potential of the Coral Species Porites astreoides as a PaleoClimate Archive for the Tropical South Atlantic Ocean*. Journal of South American Earth Sciences. 2017.

Helen Bailey has written a children's book about Leatherback Turtles titled *The Grande Turtle Adventure* which describes their research on young sea turtle movements, a period known as "The Lost Years". Copies are available at the CBL Visitor Center.



WHO'S ON TRAVEL?

Walter Boynton will give a briefing to the Chesapeake Bay Program Executive Council on June 8 on the status of Chesapeake Bay restoration, a "big perspective" talk to the Scientific and Technical Advisory Committee of the Bay Program on June 13, and a public seminar concerning Bay history at the Smithsonian Environmental Research Center on June 20.

Reed Brodnick presented an overview of his research "*Why Do We Care About Seasonal Movements of Fish?*" to Leadership Maryland on May 17.

Chris Rowe presented an overview of CBL's history and ongoing mission and a seminar "*What Does the Future Hold for Maryland's Diamondback Terrapin?*" to Leadership Maryland on May 17.

Lyubchich Viacheslav and Jeremy Testa participated in the STAC Workshop: *Understanding and Explaining 30+ Years of Water Clarity Trends in the Bay's Tidal Waters. Part 2* in Annapolis, MD, May 2-3, 2017. More information and presentation slides are available at http://www.chesapeake.org/stac/workshop.php?activity_id=269

The "Black Sea Bass Group" (Michael O'Brien, Caroline Wiernicki, Dr. David Secor, Reed Brodnick, and Ella Rothermel) will be tagging Black Sea Bass offshore of Ocean City, MD with acoustic tracking transmitters.

Lyubchich Viacheslav participated in the STATMOS-SIO Workshop on Argo Data Statistics, La Jolla, CA, April 25-27, 2017 (<https://www.statmos.washington.edu/?p=1797>) and visited Argo laboratory at the Scripps Institution of Oceanography (SIO).

Lyubchich Viacheslav presented a poster *Learning from Trophic Networks: A Case Study of an Inner Continental Shelf Fish Community* at the SouthEastern Probability Conference in Duke University, Durham, NC, May 15-17, 2017. This research is a joint work with Ryan Woodland and, at the earlier stage, with the students from the Saint Mary's College of Maryland who worked on this project as part of their course on Industrial Math this spring <https://sites.duke.edu/sepc/>.

Helen Bailey gave a seminar on *Determining Offshore Use by Marine Mammals and Ambient Noise Levels Using Passive Acoustic Monitoring* at Maryland Department of Natural Resources in Annapolis on May 18, 2017.



UPCOMING EVENTS

- **Bernie Fowler's Patuxent River Wade - In**
Sunday, June 11, 2017 from 1:00 pm - 4:00 pm
Jefferson Patterson Park and Museum in St. Leonard
<http://www.jefpat.org/patuxentrivervadein.html>
- **St. Mary's County Crab Festival**
Saturday, June 10, 2017 from 11:00 am - 8:00 pm
St. Mary's County Fairgrounds in Leonardtown
<https://e-clubhouse.org/sites/leonardtowntmd/page-8.php>
- **Chesapeake Biological Laboratory Open House**
Saturday, September 9, 2017 - time TBD
- **Waterman's Docking Festival**
Saturday, September 17, 2017

