

Lab Lines

NOVEMBER 2017

IN THIS ISSUE:

FEATURE STORY 1

RESEARCH AND AWARDS
DID YOU KNOW? 2

WHO'S ON TRAVEL?/
PUBLICATIONS 3

HR/OUTREACH/
DEVELOPMENT 4

FACILITIES/UPCOMING
EVENTS 5



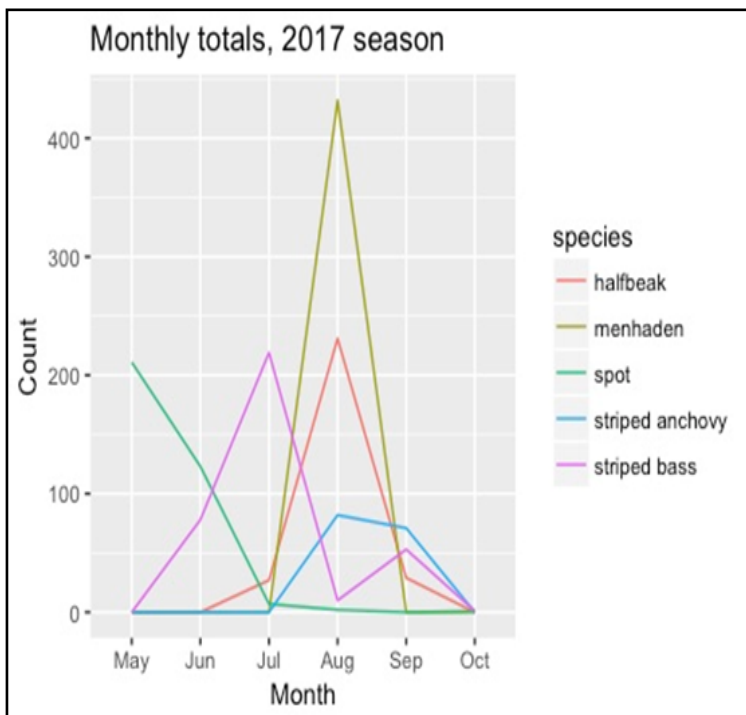
Dr. Ryan Woodland, Jacob Oster, and Erin Crandall sort through an August net of gizzard shad and American halfbeaks. Picture courtesy of Dr. David Secor.

IT'S A WRAP!

The Secor lab is putting away the seine net—for now—as the project's 2017 field season came to a close on October 20, 2017. After twenty-two weeks of sampling, and over sixty hauls, it has been a successful summer, with highs, lows, and few thousand silversides in between.

As far as figurative highs, this season saw hogchocker in June, northern kingfish back in July, a spike of over 400 menhaden (in a single haul) in August—special shoutout to Ellie Rothermel, Ginni LaRosa, and Dani Quill for counting them all, on top of an extra 738 silversides, that evening—and in September, our study's eighth seahorse in eighteen years (another shoutout to Jacob Oster for recognizing in the eleventh hour that it was, in fact, a seahorse and not a sea-stick). As far as the literal highs, the winners of this year were (discounting the 6,471 Atlantic and 825 inland silversides) ... In first place, young of the year (YOY) menhaden, with that spectacular haul of 432 in one go. In second place, YOY striped bass, with a steady increase in both the number and sizes of the individuals counted from the beginning of the season to a peak at 209 in July; striped bass counts culminated in a total of 361 YOY for the season, after a brief resurgence of 53 individuals in September. Third place goes to the American halfbeaks for a seasonal total of 287 individuals, 231 of which were caught in August alone (curiously enough, at a point when the majority of other species appeared to subside for the season.) Honorable mentions: spot, with a fighting 287, peaking early on in May and then dropping off towards the end of June; and striped anchovy, with 153 individuals coming out of the woodwork alongside the halfbeaks towards the end of the summer (see data chart on page 2).

Of course, the real winners this season were the sixteen volunteers who jumped in—this season could not have happened without your help and enthusiasm. Thank you to Nicole Basenback, Erin Crandall, Hannah Degenford, Kathryn Doering, Aran Garrod, Brooke Iacone, Robert Jarrett, Ginni LaRosa, Carlos Lozano, Joe Molina, Connor Neill, Jacob Oster, Dani Quill, Erin Reilly, Edwin Sanchez, and Ryan Woodland. Until next May!



RESEARCH AND AWARDS

Dr. Andrew Heyes received an award from the Department of Natural Resources (DNR) Resource Assessment Service (RSA), (September 1, 2017 through December 31, 2018). The title for this project is: *A Long Term Ecosystem-Level Mercury Deposition, Fate and Transport Study of a Coupled Estuarine/ Terrestrial Ecosystem at SERC 2017.*

Dr. Laura Lapham received an award from the Department of Energy (thru Oregon State University), (September 15 through September 14, 2018). The title for this project is: *Quantifying Subsurface Biogeochemical Variability in a High Altitude Watershed During Winter Isolation.*

In early October, the President of the Rio de Janeiro chapter of the Maryland-Rio Partners of the Americas and also the Vice-mayor of a major city in Brazil (Niteroi), visited Maryland looking for examples of restoration efforts in urban watersheds in the region. Dr. Solange Filoso spent a couple of days with him visiting stream restoration and stormwater management projects in Anne Arundel County, and also meeting with administrators of watershed protection and restoration programs and stream restoration practitioners. This visit was part of an ongoing effort to develop a partnership between UMCES and the Fluminense Federal University (one of the main public universities in Rio de Janeiro) to help advance restoration research and practice in Brazil. If successful, the partnership will give students and faculty at both universities more opportunities for collaborative research and, potentially, education. The Vice-Mayor wrote about this visit and posted pictures on his Blog, which is Portuguese: <http://axelgrael.blogspot.com/2017/10/visitando-areas-de-restauracao-de-rios.html>.

Dr. Woodland gave two skype ‘lectures’ to the 5th grade science classes at St. Leonard Elementary on October 17. Check out the link from the school’s facebook page: <https://www.facebook.com/1456272534700834/photos/pb.1456272534700834.-2207520000.1508516996./1895446854116731/?type=3&theater>.

Congratulations

Dr. Helen Bailey has received overwhelming support from the CBL community as the next Faculty Senator for CBL. Dr. Bailey will be replacing Dr. Lee Cooper’s position as his term on the Senate has come to an end.

Dr. Helen Bailey, Research Associate Professor, is best known for her work in movement ecology. You can find her faculty profile at: <http://www.umces.edu/helen-bailey>.

WHO'S ON TRAVEL



Dr. Helen Bailey gave a talk on October 14 on her Dolphin Watch project to the Herrington Harbor Sailing Association in Deale, MD.

Dr. Helen Bailey presented at the Society for Marine Mammalogy conference in Halifax, Canada (October 23 through 28) and chaired a workshop on *Assessing the Responses of Marine Mammals to Anthropogenic Acoustic Disturbance*.

On October 27, Amber Fandel gave a presentation on the DolphinWatch project to the organization Southwings at their annual meeting in Granville, MD. Southwings have kindly helped to coordinate our aerial dolphin surveys in the Chesapeake Bay.

Dr. David Secor will be participating in the National Academy of Science Workshop on impacts of offshore wind on NE US fisheries in New Bedford, MA. Dr. David Secor will be visiting the University of Bordeaux as a PhD defense rapporteur.

Dr. Genny Nessler will travel to Cape May, NJ to present research to SCeMFiS at their fall meeting.

Dr. Jackie Grebmeier traveled to Trieste, Italy for a Norwegian-sponsored international workshop entitled “4th Pan-Arctic Symposium Programme Towards a Unifying Pan-Arctic Perspective of the Contemporary and Future Arctic Ocean”.

CERF Conference

CBL has a strong presence of attendees (students, FRAs, and hourly) traveling to the CERF Conference in Providence, RI. Drs. Harris’ and Woodland’s group will be presenting or co-authoring on more than 13 talks and posters. Talk topics include: *Estuarine Biogeochemistry, Wetland Ecology, Oyster Modeling, and Improving Diversity in the Geosciences, Forage Dynamics and Trophic Ecology*. Check out the CERF website for more information: <http://www.erf.org/cerf-2017-biennial-conference>.

PUBLICATIONS

Vyacheslav Lyubchich, Kelly Kilbourne and Gel Yulia . (2017). *Where the Home Insurance Meets the Climate Change: Making Sense of Climate Risk, Data Uncertainty, and Projections*. Variance. <http://www.variancejournal.org/articlespress/>.

Julien Emile-Geay, Nicholas P. McKay, Darrell S. Kaufman, Lucien von Gunten, Jianghao Wang, Kevin J. Anchukaitis, Nerilie J. Abram, Jason A. Addison, Mark A.J. Curran, Michael N. Evans, Benjamin J. Henley, Zhixin Hao, Belen Martrat, Helen V. McGregor, Raphael Neukom, Gregory T. Pederson, Barbara Stenni, Kaustubh Thirumalai, Johannes P. Werner, Chenxi Xu Dmitry V. Divine, Bronwyn C. Dixon, Joelle Gergis, Ignacio A. Mundo, Takeshi Nakatsuka, Steven J. Phipps, Cody C. Routson, Eric J. Steig, Jessica E. Tierney, Jonathan J. Tyler, Kathryn J. Allen, Nancy A.N. Bertler, Jesper Björklund, Brian M. Chase, Min-Te Chen, Ed Cook, Rixt de Jong, Kristine L. DeLong, Daniel A. Dixon, Alexey A. Ekaykin, Vasile Ersek, Helena L. Filipsson, Pierre Francus, Mandy B. Freund, Massimo Frezzotti, Narayan P. Gaire, Konrad Gajewski, Quansheng Ge, Hugues Goosse, Anastasia Gornostaeva, Martin Grosjean, Kazuho Horiuchi, Anne Hormes, Katrine Husum, Elisabeth Isaksson, Selvaraj Kandasamy, Kenji Kawamura, **K. Halimeda Kilbourne**, Nalan Koc, Guillaume Leduc, Hans W. Linderholm, Andrew M. Lorrey, Vladimir Mikhalenko, Graham P. Mortyn, Hideaki Motoyama, Andrew D. Moy, Robert Mulvaney, Philipp M. Munz, David J. Nash, Hans Oerter, Thomas Opel, Anais J. Orsi, Dmitriy V. Ovchinnikov, Trevor J. Porter, Heidi A. Roop, Casey Saenger, Masaki Sano, David Sauchyn, Krystyna M. Saunders, Marit-Solveig Seidenkrantz, Mirko Severi, Xuemei Shao, Marie-Alexandrine Sicre, Michael Sigl, Kate Sinclair, Scott St. George, Jeannine-Marie St. Jacques, Meloth Thamban, Udaya Kuwar Thapa, Elizabeth R. Thomas, Chris Turney, Ryu Uemura, Andre E. Viau, Diana O. Vladimirova, Eugene R. Wahl, James W.C. White, Zicheng Yu, Jens Zinke. (2017). *A Global Multiproxy Database for Temperature Reconstructions of the Common Era*. Scientific Data. <http://dx.doi.org/10.1038/sdata.2017.88>.

HR

Please welcome Dr. Hikaru Itakura and his family, arriving November 10. Dr. Itakura will be conducting research at CBL for the next couple of years working in Dave Secor's laboratory on striped bass migration. He is best known for his needle-in-a-haystack discovery of Japanese eel.

OUTREACH

Visitor Center

In November, the Chesapeake Biological Laboratory Visitor Center will be open to the public from 9:30am - 4:30pm on Fridays, Saturdays, and Sundays.

The Visitor Center will have special extended hours during the Solomons Island Christmas Walk the first weekend in December. After the first weekend in December, the Visitor Center will be closed for the winter season.

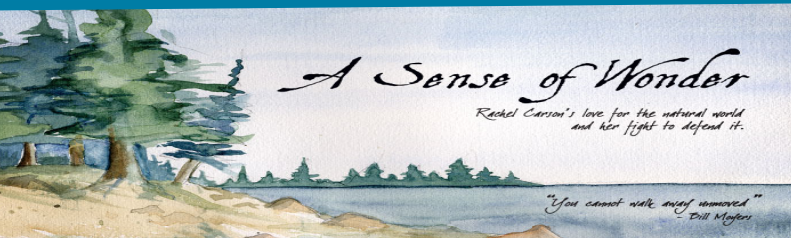
Tours

Campus Tours have concluded for this year. Prearranged Group Tours can be arranged throughout the year for groups of 12 or more by contacting the Outreach Coordinator.

Upcoming Events

November 4, 2017 - The Chesapeake Biological Laboratory will have an outreach booth at the St. Mary's County STEM Festival at the St. Mary's County Fairgrounds.

DEVELOPMENT



UMCES Chesapeake Biological Laboratory Presents Kaiulani Lee as Rachel Carson in:

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>. Contact Jeane Wharton, @jwharton@umces.edu or 410-326-7240.

A Sense of Wonder at CBL Sponsorship Opportunities:

\$5,000 - **Rockfish** - Sponsor name prominent online and in printed programs, signage, and advertising; a private, crewed tour for six of the research ship the Rachel Carson; six tickets for the show AND After Party with actress Kaiulani Lee.

\$2500 - **Blue Crab** - Listing online, in printed programs, signage, ads; four tickets AND After Party.

\$1,000 - **Oyster** - Listing online, in printed programs, signage, ads; two tickets AND After Party.

\$500 - **Bluefish** - Listing online and in printed programs, signage, ads; one ticket, AND After Party.

\$250 - **Menhaden** - Listing online, in printed program, ads; signage, one ticket.

FACILITIES

The Mansueti renovation project is on schedule for a February completion. This project is partially funded with Facilities Renewal funding to make improvements to our aging infrastructure. Sustainable and cost saving improvements are included! LED lighting and an improved air handling system to provide occupant comfort.



The BFL generator is in a new temporary home, making way for the new natural gas generator. This project is funded from Facilities Renewal funding to provide improved services to our mission critical Bernie Fowler Laboratory building.

The Saunders House will soon have a new roof and gutters. This project is funded by CBL and includes 50 year shingles and roof repairs to keep this historic Solomons structure water tight.



The keyless lock project is well underway. We are beginning initial testing at two building locations. Expect to be contacted in January 2018 to turn in your keys and issued your new CBL employee ID card!

The campus transition to the new email Google system is 99% complete. If you have questions or need training on the Gmail Suite and the many features it offers, please contact Stacy Hutchinson. If you haven't transitioned to Google, please contact the IT Department. The CBL email server will no longer be accessible at the end of the calendar year.

UPCOMING EVENTS



- **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**

- **St. Mary's County STEM Festival at the St. Mary's County Fairgrounds**

Saturday, November 4, 2017

