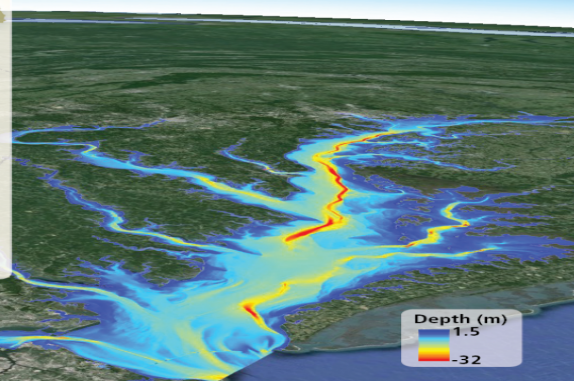


Lab Lines

JULY 2017

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Drs. Jeremy Testa and Viacheslav Lyubchich released a forecast of summer anoxic volumes for Chesapeake Bay in partnership with the UMCES Integration and Application Network, NOAA, and the University of Michigan. The forecasts for this summer indicate slightly higher than average volumes. To learn more, visit <http://ian.umces.edu/ecocheck/forecast/chesapeake-bay/2017/> and <http://www.umces.edu/news/larger-summer-%E2%80%98dead-zone%E2%80%99-predicted-chesapeake-bay>

RESEARCH & AWARDS

Dr. Carys Mitchelmore received an award from the Personal Care Products Council (PCPC) (May 1 to December 31, 2017). The title for this project is: *A Current Perspective on Understanding and Managing Coral Reef Stressors*.

Dr. Jackie Grebmeier received an additional funds award from the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (thru UAF) (November 2014 to October 31, 2019). The title for this project is: *Integrating Ocean Observing System (IOOS)*.

Dr. Mario Tamburri received awards for additional funds and time to three projects funded by U.S. Department of Transportation, Maritime Administration. The titles for the projects are: *Phase VI - Establish & Validate a Barge-Based Mobile Test Platform for Evaluations of Ballast Water Treatment Systems* (May 15, 2017 to June 15, 2018). *Phase X Part II Proof of Concept for Compliance Monitoring of Ballast Water Discharge Regulations* (May 15, 2017 to December 31, 2018). *Phase XIII, Part 3 Annual Lease on MERC Mobile Test Platform* (May 15, 2017 to June 15, 2018).

Mr. Jerry Frank received an award from the National Oceanic and Atmospheric Administration (thru DNR) (April 1, 2017 to January 31, 2018). The title for this project is: *Discrete Water Quality Monitoring for the Chesapeake Bay National Estuarine Research Reserve (CBNERR) in Maryland*.

RESEARCH & AWARDS CONTINUED

Mr. Jerry Frank received multiple awards from the Department of Natural Resources, Resource Assessment Service (July 1, 2017 to December 31, 2018). The titles for these projects are: *Analytical Services for DNR's Chesapeake Bay Monitoring: Mainstream Project, Blind Audit Project, Tributary Monitoring Project, Shallow Water Monitoring Project, CBNERR Diel, and Non-Tidal Analysis.*

Dr. Genny Nessler received an award from the National Science Foundation (thru SCoMFiS) (June 1, 2017 to June 30, 2018). The title for the project is: *Evaluation of Sampling Adequacy for Atlantic Menhaden Fisheries.*

Drs. Genevieve Nessler and Michael Wilberg received additional funds award from the National Oceanic and Atmospheric Administration (Sea Grant) (Present through January 31, 2018). The title for the project is: *Development of a Bayesian Approach for Estimating Ecosystem-Based Reference Points for Atlantic Menhaden.*

Drs. Lora Harris and Jeremy Testa received additional funds from the National Oceanic and Atmospheric Administration (Sea Grant) (June 1, 2017 through January 31, 2018). The title for the project is: *Quantifying Changes to Nutrient Cycling and Nitrogen Removal in an Estuary as a Consequence of Aeration.*

Drs. Michael Gonsior, Andrew Heyes, and Lora Harris received additional funds from the National Oceanic and Atmospheric Administration (Sea Grant) (June 1, 2017 to January 31, 2018). The title for this project is: *Tracking Septic System Performance by Using Innovative Mass Spectrometric and Traditional Nutrient Measure.*

PUBLICATIONS

Wainger, L.A., Secor, D.H., Gurbisz, C., Kemp, W.M., Glibert, P.M., Houde, E.D., Richkus, J. and Barber, M.C. *Resilience Indicators Support Valuation of Estuarine Ecosystem Restoration Under Climate Change.* Journal of Ecosystem Health and Sustainability. 2017.

Woodland, R.J., Rowe, C.L., and Henry, P.F.P. *Changes in Habitat Availability for Multiple Life Stages of Diamondback Terrapins.* Coastal and Estuarine Federation. In press.

Cai, W.-J., Huang, W.-J., Luther, G.W. III, Pierrot, D., Li, M., **Testa, J.**, Xue, M., Joesoef, A., Mann, R., Brodeur, J., Xu, Y.-Y., Chen, B., Hussain, N., Waldbusser, G.G., Cornwell, J., and Kemp, W.M. *Redox Reactions and Weak Buffering Capacity Lead to Acidification in the Chesapeake Bay.* Nature Communications. 2017.

Boynton, W.R., Del Carmen Ceballos Fraser, M.A., Bailey, E.M., Hodgkins, C.L., Humphrey, J.L., and Testa, J.M. *Nutrient and Oxygen Exchanges at the Sediment-Water Interface: a Global Synthesis and Critique of Estuarine and Coastal Data.* Estuaries and Coasts. 2017.

Huang, X., Iliev, I. R., **Lyubchich, V.**, and Gel, Y. R. *Riding Down the Bay: Space-Time Clustering of Ecological Trends.* Environmetrics. 2017.

DOLPHIN WATCH UPDATE

Our online dolphin tracker is now available so you can report and view dolphin sightings at: <https://chesapeakedolphinwatch.org>

Please feel free to distribute this to anyone you think might be interested.

Thank you to everyone who helped during the beta testing phase! The sightings database was cleared yesterday so we just have real sightings on the app now. A lot reported in the last 24 hours - keep a look out for dolphins in the Bay!

OUTREACH

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

Meet the Author at Family-Friendly Readings of: *The Grande Turtle Adventure*. It's a big ocean for two baby leatherback turtles! Join Laurie and Tica on their adventure as they search for food together and try to find their way home.

Join us on Friday, July 28, 2017 for free book readings at: 11:00am, 1:30pm, and 3:30pm at the Chesapeake Biological Laboratory Visitor Center, 200 Farren Avenue, Solomons, MD 20688.

Dr. Helen Bailey will sign books after each reading, for families wishing to purchase copies (\$20.00 per book). Space is limited and available on a first-come, first served basis.

For further information please click on this link: www.umces.edu/events/meet-author-grande-turtle-adventure-1

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: aquatic animal touch tanks, experiments on toxicology, 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.

PERSONNEL

Gang Lin is a visiting Associate Research Scientist working with Dr. Hongsheng Bi.

PLAY BALL

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



WHO'S ON TRAVEL?



Dr. Slava Lyubchich presented a talk “Dynamic Spatio-Temporal Clustering of Water Quality

Trends” at the 7th International Workshop on Perspectives on High-Dimensional Data Analysis (HDDA-VII) in CIMAT, Guanajuato, Mexico
<http://hddavii.eventos.cimat.mx/node/550>

Dr. Jackie Grebmeier traveled to Tromso, Norway in June to attend the Ecosystem Study for Subarctic-Arctic Seas 3rd

International Open Science Conference and give an invited plenary talk.

Dr. Jackie Grebmeier traveled to Victoria, Canada in June to attend the annual Ocean Networks Canada board meeting.

CONFERENCE ROOMS

The conference room on the first floor of Truitt is going to be renamed the Boynton Conference Room in recognition of Dr. Walter Boynton’s long years of service.

The renaming of this conference room is part of a new initiative to rename other conference and teaching rooms on campus in recognition of CBL’s emeritus faculty. Each named room will have a plaque celebrating the emeritus faculty member for whom the room is named. At some point, existing rooms will need to be renamed and a second plaque will be added to the room to create a sense of history and permanence about the contributions CBLs researchers have made to the understanding of our environment.

UPCOMING EVENTS



- CBL New Student Orientation and Boesch Bash
Thursday, August 24, 2017 - 3:00 to 7:00 p.m.
- Chesapeake Biological Laboratory Open House
Saturday, September 9, 2017 - 1:00 to 5:00 p.m.
- 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

