



2020 Cooperative Oxford Laboratory

Peer-reviewed Publications

DeLuca, N.M., B.F. Zaitchik, S.D. Guikema, J.M. **Jacobs**, B.J.K. Davis, and F.C. Curriero. 2020. Evaluation of remotely sensed prediction and forecast models for *Vibrio parahaemolyticus* in the Chesapeake Bay. *Remote Sensing of Environment* 250: 112016.

<https://doi.org/10.1016/j.rse.2020.112016>

Dvarskas, A., S.B. **Bricker**, G.H. Wikfors, J.J. Bohorquez, M.S. Dixon, and J.M. Rose. 2020. Quantification and valuation of nitrogen removal services provided by commercial shellfish aquaculture at the subwatershed scale. *Environmental Science & Technology* 54: 16156-16165.

<https://doi.org/10.1021/acs.est.0c03066>

Jacox, M.G., M.A. Alexander, S. Siedlecki, K. Chen, Y.-O. Kwon, S. Brodie, I. Ortiz, D. Tommasi, M.J. Widlansky, D. Barrie, A. Capotondi, W. Cheng, E. Di Lorenzo, C. Edwards, J. Fiechter, P. Fratantoni, E.L. Hazen, A.J. Hermann, A. Kumar, A.J. Miller, D. **Pirhalla**, M. Pozo Buil, S. Ray, S.C. Sheridan, A. Subramanian, P. Thompson, L. Thorne, H. Annamalai, K. Aydin, S.J. Bograd, R.B. Griffis, K. Kearney, H. Kim, A. Mariotti, M. Merrifield, and R. Rykaczewski. 2020. Seasonal-to-interannual prediction of North American coastal marine ecosystems: Forecast methods, mechanisms of predictability, and priority developments. *Progress in Oceanography* 183: 102307.

<https://doi.org/10.1016/j.pocean.2020.102307>

Lee, C.C., B.B. Barnes, S.C. Sheridan, E.T. Smith, C. Hu, D.E. **Pirhalla**, V. **Ransibrahmanakul**, and R. Adams. 2020. Using machine learning to model and predict water clarity in the Great Lakes. *Journal of Great Lakes Research* 46(6): 1501-1510.

<https://doi.org/10.1016/j.jglr.2020.07.022>

Matsche, M.A., V.S. Blazer, E.L. Pulster, and P.M. Mazik. 2020. High prevalence of biliary neoplasia in white perch *Morone americana*: potential roles of bile duct parasites and environmental contaminants. *Diseases of Aquatic Organisms* 141:195-224. <https://doi.org/10.3554/dao03510>

Parveen, S., J. **Jacobs**, G. Ozbay, L.K. Chintapenta, E. Alumuhaideb, J. Meredith, S. Ossai, A. Abbott, A. Grant, K. Brohawn, P. Chigbu, and G.P. Richards. 2020. Seasonal and geographical differences in total and pathogenic *Vibrio parahaemolyticus* and *Vibrio vulnificus* levels in seawater and oysters from the Delaware and Chesapeake Bays using several methods. *Applied and Environmental Microbiology* 86: e01581-20. <https://doi.org/10.1128/aem.01581-20>

Smith, E.T., C.C. Lee, B.B. Barnes, R.E. Adams, D.E. **Pirhalla**, V. **Ransibrahmanakul**, C. Hu, and S.C. Sheridan. 2020. A synoptic climatological analysis of the atmospheric drivers of water clarity variability in the Great Lakes. *Journal of Applied Meteorology and Climatology* 59: 915-935.

<https://doi.org/10.1175/JAMC-D-19-0156.1>