



## 2017 Cooperative Oxford Laboratory

Peer-reviewed Publications

Davis, B.J., J.M. **Jacobs**, M.F. Davis, K.J. Schwab, A. DePaola, and F.C. Curriero. 2017. Environmental determinants of *Vibrio parahaemolyticus* in the Chesapeake Bay. *Applied and Environmental Microbiology* 83(21) e01147-17. <https://doi.org/10.1128/aem.01147-17>

Densmore, C.L., D.D. Iwanowicz, C.A. Ottinger, L.J. Hindman, A.M. Bessler, L.R. Iwanowicz, D.J. Prosser, M. Whitbeck, and C.P. **Driscoll**. 2017. Detection of avian influenza virus from sediment samples in waterfowl habitats on the Delmarva Peninsula, United States. *Avian Diseases* 61(4): 520-525. <https://doi.org/10.1637/11687-060917-ResNote.1>

Eddy, T. D., Lotze, H. K., Fulton, E. A., Coll, M., Ainsworth, C. H., de Araujo, J. N., **Townsend**, H. 2017. Ecosystem effects of invertebrate fisheries. *Fish and Fisheries*, 18(1): 40-53. <https://doi.org/10.1111/faf.12165>

**Freitag**, A., T. Hartley, and B. Vogt. 2017. Using business names as an indicator of oysters' cultural value. *Ecological Complexity* 31: 165-169. <https://doi.org/10.1016/j.ecocom.2017.06.007>

Haus, W., K. Hartman, J. **Jacobs**, and R. Harrell. 2017. Development of striped bass condition models with bioelectrical impedance analysis and associated temperature corrections. *Transactions of the American Fisheries Society* 146(5): 917-926. <https://doi.org/10.1080/00028487.2017/1318093>

Hoenig, J.M., M.L. Groner, M.W. Smith, W.K. Vogelbein, D.M. Taylor, D.F. Landers, J.T. Swenarton, D.T. Gauthier, P. Sadler, M.A. **Matsche**, A.N. Haines, H.J. Small, R. Pradel, R. Choquet, and J.D. Shields. 2017. Impact of disease on the survival of three commercially fished species. *Ecological Applications* 27(7): 2116-2127. <https://doi.org/10.1002/eap.1595>

Ihde, T. F., & **Townsend**, H. M. 2017. Accounting for multiple stressors influencing living marine resources in a complex estuarine ecosystem using an Atlantis model. *Ecological Modelling* 365: 1-9. <https://doi.org/10.1016/j.ecolmodel.2017.09.010>

Kornis, M.S., D. Breitbart, R. Balouskus, D.M. Bilkovic, L.A. Davias, S. Giordano. K. Heggie, A.H. Hines, J.M. **Jacobs**, T.E. Jordan, R.S. King, R.D. Seitz, H. Soulen, T.E. Targett, D.E. Weller, D.F. Whigham, and J. **Uphoff**, Jr. 2017. Linking the abundance of estuarine fish and crustaceans in nearshore waters to shoreline hardening and land cover. *Estuaries and Coasts* 40(5): 1464-1486. <https://doi.org/10.1007/s/2237-017-0213-6>

MacLeod, A.H., V.S. Blazer, M.A. **Matsche**, and L.T. Yonkos. 2017. Nonlethal laparoscopic detection of intersex (testicular oocytes) in largemouth bass (*Micropterus salmoides*) and smallmouth bass (*Micropterus dolomieu*). *Environmental Toxicology and Chemistry* 36(7): 1924-1933. <https://doi.org/10.1002/etc.3716>

**Matsche**, M.A. 2017. Efficacy and physiological response to chemical anesthesia in wild hickory shad *Alosa mediocris* during spawning season. *Marine and Coastal Fisheries* 9(1): 296-304.

<https://doi.org/10.1080/19425120.2017.1321593>

**Matsche**, M.A., **K. Rosemary**, and C.P. Stence. 2017. A comparison of hematology, plasma chemistry and injuries in hickory shad (*Alosa mediocris*) captured by electrofishing and angling during a spawning run. *Veterinary Clinical Pathology* 46(3): 471-482.  
<https://doi.org/10.1111/vcp.12515>

Muhling, B.A., **J. Jacobs**, C.A. Stock, C.F. Gaitan, and V.S. Saba. 2017. Projections of the future occurrence, distribution and seasonality of the three *Vibrio* species under climate change in the Chesapeake Bay. *GeoHealth* 1(7): 278-296. <https://doi.org/10.1002/2017GH000089>

Ogburn, M.B., J.E. **Spires**, R. Aguilar, M.R. Goodison, K. Heggie, and E. Kinnebrew. 2017. Assessment of river herring spawning runs in a Chesapeake Bay coastal plain stream using imaging sonar. *Transactions of the American Fisheries Society* 146(1): 22-35.  
<https://doi.org/10.1080/00028487.2016.1235612>

Prosser, D.J., C.L. Densmore, L.J. Hindman, D.D. Iwanowicz, C.A. Ottinger, L.R. Iwanowicz, C.P. **Driscoll**, J.L. Nagel. 2017. Low pathogenic avian influenza viruses in wild migratory waterfowl in a region of high poultry production, Delmarva, Maryland. *Avian Diseases* 61(1): 128-134.  
<https://doi.org/10.1637/11476-072616-ResNote>

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Sheridan, S.C., D.E. **Pirhalla**, C.C. Lee, and V. **Ransibrahmanakul**. 2017. Atmospheric drivers of sea-level fluctuations and nuisance floods along the mid-Atlantic coast of the USA. *Regional Environmental Change* 17: 1853-1861. <https://doi.org/10.1007/s10113-017-1156-y>

Tompkins, E. M., **Townsend**, H. M., & Anderson, D. J. (2017). Decadal-scale variation in diet forecasts persistently poor breeding under ocean warming in a tropical seabird. *Plos One*, 12(8): 0182545. <https://doi.org/10.1371/journal.pone.0182545>

Vasslides, J. M., de Mutsert, K., Christensen, V., & **Townsend**, H. (2017). Using the Ecopath with Ecosim modeling approach to understand the effects of watershed-based management actions in coastal ecosystems. *Coastal Management* 45(1): 44-55.  
<https://doi.org/10.1080/08920753.2017.1237241>

Vasslides, J. M., **Townsend**, H., Belton, T., & Jensen, O. P. (2017). Modeling the Effects of a Power Plant Decommissioning on an Estuarine Food Web. *Estuaries and Coasts*, 40(2): 604-616.  
<https://doi.org/10.1007/s12237-016-0151-8>