



## 2021 Cooperative Oxford Laboratory

Peer-reviewed Publications

Anstead, K. A., K. Drew, D. Chagaris, A.M. Schueller, J.E. McNamee, A. Buchheister, G. Nesslage, J.H. **Uphoff**, Jr., M.J. Wilberg, A. **Sharov**, with 21 others and H. **Townsend**. 2021. The path to an ecosystem approach for forage fish management: A case study of Atlantic menhaden. *Frontiers in Marine Science* 8: 607657. <https://doi.org/10.3389/fmars.2021.607657>

Dickerson, Jr., J., J. Gooch-Moore, J.M. **Jacobs**, and J.B. Mott. 2021. Characteristics of *Vibrio vulnificus* from clinical and environmental sources. *Molecular and Cellular Probes* 56: 101695. <https://doi.org/10.1016/j.mcp.2021.101695>

**Freitag**, A., A. **Ellett**, H. **Burkhart**, and J. **Jacobs**. 2021. Estimating the economic burden of *Vibrio parahaemolyticus* in Washington state oyster aquaculture: Implications for the future. *Journal of Shellfish Research* 40(3): 555-564. <https://doi.org/10.2983/035.040.0312>

Gonyo, S.B., C.S. Fleming, A. **Freitag**, and T.L. Goedeke. 2021. Resident perceptions of local offshore wind energy development: Modeling efforts to improve participatory processes. *Energy Policy* 149: 112068. <https://doi.org/10.1016/j.enpol.2020.112068>

Howell, D., A.M. Schueller, J.W. Bentley, A. Buchheister, D. Chagaris, M. Cieri, K. Drew, M.G. Lundy, D. Pedreschi, D.G. Reid, and H. **Townsend**. 2021. Combining Ecosystem and Single-Species Modeling to Provide Ecosystem-Based Fisheries Management Advice Within Current Management Systems. *Frontiers in Marine Science* 7: 607831. <https://doi.org/10.3389/fmars.2020.607831>

Kaplan, I. C., S.K. Gaichas, C.C. Stawitz, P.D. Lynch, K.N. Marshall, J.J. Deroba, M. Masi, J.K.T. Brodziak, K.Y. Aydin, K. Holsman, H. **Townsend**, D. Tommasi, J.A. Smith, S. Koenigsten, M. Weijerman, and J. Link. 2021. Management strategy evaluation allowing the light on the hill to illuminate more than one species. *Frontiers in Marine Science* 8: 624355. <https://doi.org/10.3389/fmars.2021.624355>

S. Kasperski, G.S. DePiper, A.C. Haynie, S. Blake, L.L. Colburn, A. **Freitag**, M. Jepson, M. Karnauskas, K.M. Leong, D. Lipton, M. Masi, C. Speir, H. **Townsend**, and M. Weijerman. 2021. Assessing the State of Coupled Social-Ecological Modeling in Support of Ecosystem Based Fisheries Management in the United States. *Frontiers in Marine Science* 8: 631400. <https://doi.org/10.3389/fmars.2021.631400>

Kimbrough, K., A. Jacob, S. Regan, E. Davenport, M. Edwards, A.K. **Leight**, A. **Freitag**, M. Rider, and W.E. Johnson. 2021. Characterization of polycyclic aromatic hydrocarbons in the Great Lakes basin using dreissenid mussels. *Environmental Monitoring Assessment* 193: 833. <https://doi.org/10.1007/s10661-021-09401-7>

Lewis, K.A., K.A. Rose, K. de Mutsert, S. Sable, C. Ainsworth, D.C. Brady, and H. **Townsend**. 2021. Using Multiple Ecological Models to Inform Environmental Decision-Making. *Frontiers in Marine Science*

Science 8: 625790. <https://doi.org/10.3389/fmars.2021.625790>

**Matsche**, M.A. and E.L. Pulster. 2021. Seasonal exposures of polycyclic aromatic hydrocarbons to white perch *Morone americana* from two tributaries of Chesapeake Bay, USA. Diseases of Aquatic Organisms. Diseases of Aquatic Organisms 147(1): 63-86. <https://doi.org/10.3354/dao03637>

**Matsche**, M.A., V.S. Blazer, E.L. Pulster, and P.M. Mazik. 2021. Biological and anthropogenic influences on macrophage aggregates in white perch *Morone americana* from Chesapeake Bay, USA. Diseases of Aquatic Organisms 143:79-100. <https://doi.org/10.3354/dao3555>

**Matsche**, M.A., V. Yurakhno, J. Zhang, and H. Sato. 2021. Synopsis of the species of the genus *Zschokkella* Auerbach, 1910 (Myxozoa: Bivalvulida: Myxidiidae). Systematic Parasitology 98:25-55. <https://doi.org/10.1007/s11230-020-09960-2>

**McLaughlin**, S.M. 2021. In Memoriam, Carl J. Sindermann, 1922-2019. Journal of Shellfish Research 40(1): 1-7. <https://doi.org/10.2983/035.40.0101>

Piroddi, C., J.J. Heymans, D. Macia, M. Gregoire, and H. **Townsend**. 2021. Editorial: Using ecological models to support and shape environmental policy decisions. Frontiers in Marine Science 8: 815313. <https://doi.org/10.3389/fmars.2021.815313>

Plough, L.V., A.J. Bunch, B.B. Lee, C.L. Fitzgerald, C.P. Stence, and B.M. **Richardson** 2021. Development and testing of an environmental DNA (eDNA) assay for endangered Atlantic sturgeon to assess its potential as a monitoring and management tool. Environmental DNA 2021:1-15. <https://doi.org/10.1002/edn3.186>

Reum, J.C.P., C.R. Kelble, C.J. Harvey, R.P. Wildermuth, N. Trifonova, S.M. Lacey, P.S. McDonald, and H. **Townsend**. 2021. Network approaches for formalizing conceptual models in ecosystem-based management. ICES Journal of Marine Science 78: 3674-3686. <https://doi.org/10.1093/icesjms/fsab211>

Reum, J.C.P., **Townsend**, H., Gaichas, S., Sagarese, S., Kaplan, I.C., & Gruss, A. 2021. It's not the destination, It's the journey: Multispecies model ensembles for ecosystem approaches to fisheries management. Frontiers in Marine Science 8: 631839. <https://doi.org/3389/fmars.2021.631839>

**Spires**, J.E., C.F. **Dungan**, and E.W. North. 2021. Marking the shellfish of pediveliger eastern oysters *Crassostrea virginica* with a calcein fluorochrome dye. Journal of Shellfish Research 40(3): 479-487. <https://doi.org/10.2983/035.040.0304>

Tommasi, D., deReynier, Y., **Townsend**, H., Harvey, C. J., Satterthwaite, W. H., Marshall, K. N., Jacox, M. G. 2021. A Case Study in Connecting Fisheries Management Challenges with Models and Analysis to Support Ecosystem-Based Management in the California Current Ecosystem. Frontiers in Marine Science 8:624161. <https://doi.org/10.3389/fmars.2021.624161>