

Peer-reviewed Publications

2021

Anstead, K. A., Drew, K., Chagaris, D., Cieri, M., Schueller, A. M., McNamee, J. E., **Townsend, H.** (2021). The Path to an Ecosystem Approach for Forage Fish Management: A Case Study of Atlantic Menhaden. *Frontiers in Marine Science*, 8. doi: 10.3389/fmars.2021.607657

Howell, D., Schueller, A. M., Bentley, J. W., Buchheister, A., Chagaris, D., Cieri, M., **Townsend, H.** (2021). Combining Ecosystem and Single-Species Modeling to Provide Ecosystem-Based Fisheries Management Advice Within Current Management Systems. *Frontiers in Marine Science*, 7. doi:10.3389/fmars.2020.607831

Kaplan, I. C., Gaichas, S. K., Stawitz, C. C., Lynch, P. D., Marshall, K. N., Deroba, J. J., Masi, M., Brodziak, J.K.T., Aydin, K.Y., Holsman, K., **Townsend, H.**, Tommasi, D., Smith, J.A., Koenigsten, S., Weijerman, M., and Link, J. (2021). Management Strategy Evaluation Allowing the Light on the Hill to Illuminate More Than One Species. *Frontiers in Marine Science*. 8. Doi: 10.3389/fmars.2021.624355

Kasperski, S., DePiper, G. S., Haynie, A. C., Blake, S., Colburn, L. L., Freitag, A., Jepson, M., Karnauskas, M., Leong, K.M., Lipton, D., Masi, M., Speir, C., **Townsend, H.**, and Weijerman, M. (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. doi: 10.3389/fmars.2021.631400

Lewis, K. A., Rose, K. A., de Mutsert, K., Sable, S., Ainsworth, C., Brady, D. C., & **Townsend, H.** (2021). Using Multiple Ecological Models to Inform Environmental Decision-Making. *Frontiers in Marine Science*, 8. doi: 10.3389/fmars.2021.625790

Matsche, M.A. and E.L. Pulster. Seasonal exposures of polycyclic aromatic hydrocarbons to white perch *Morone americana* from two tributaries of Chesapeake Bay, USA. *Diseases of Aquatic Organisms*.

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.

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.

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;00:1-15. <https://doi.org/10.1002/edn3.186>

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. doi:10.3389/fmars.2021.631839

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. doi: 10.3389/fmars.2021.624161

Wolny, J.L., C.B. **McCullough**, D.S. **Rosales**, and J.S. Pitula. Harmful algal bloom species in the St. Martin River: surveying the headwaters of the northern Maryland coastal bays. *Journal of Coastal Research* (in press).

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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.

2019

Matsche, M. A., V. S. Blazer and P. M. Mazik (2019). Comparisons of stereological and other approaches for quantifying macrophage aggregates in piscine spleens. *Journal of Aquatic Animal Health* 31(4): 328-348.

Freitag, A., J. Vasslides, and H. **Townsend**. 2019. Are you thinking what I'm thinking? A conceptual approach to understand stakeholders' assessments of the fate of Chesapeake oysters. *Marine Policy* 99(2019): 99-110. <https://doi.org/10.1016/j.marpol.2018.10.011>

Matsche, M.A., V.S. Blazer, and P.M. Mazik. 2019. Seasonal development of the coccidian parasite *Goussia bayae* and hepatobiliary histopathology in the white perch *Morone americana* from Chesapeake Bay. *Diseases of Aquatic Organisms* 134(2): 113-135.

Matsche, M.A., C.R. Adams, and V.S. Blazer. 2019. Newly described *Coccidia Goussia bayae* from white perch *Morone americana*: Morphology and phylogenetics support emerging taxonomy of *Goussia* within piscine hosts. *Journal of Parasitology* 105(1): 1-10.

Townsend, H., C.J. Harvey, Y. deReynier, D. Davis, S.G. Zador, S. Gaichas, M. Weijerman, E.L. Hazen, and I.C. Kaplan. 2019. Progress on implementing ecosystem-based fisheries management in the United States through the use of ecosystem models and analysis. *Frontiers in Marine Science* 6(2019): article 641, 1-17. <https://www.frontiersin.org/articles/10.3389/fmars.2019.00641>

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Freitag, A. 2018. Visions of wilderness in the North Bay communities of California. *Area* 50(2018): 101-108. <https://onlinelibrary.wiley.com/doi/epdf/10.1111/area.12356>

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Freitag, A., B. Vogt, and T. Hartley. 2018. Ecosystem-based fisheries management in the Chesapeake: developing functional indicators. *Coastal Management* 46(3): 127-147.

Glaspie, C.N., R.D. Seitz, M.B. Ogburn, C.F. **Dungan**, and A.H. Hines. 2018. Impacts of habitat, predators, recruitment, and disease on soft-shell clams *Mya arenaria* and stout razor clams *Tagelus plebeius* in Chesapeake Bay. *Marine Ecology Progress Series* 603(2018): 117-133.

Olsen, E., Kaplan, I. C., Ainsworth, C., Fay, G., Gaichas, S., Gamble, R., Girardin, R., Hansen, C., Ihde, T.F., Morzaria-Luna, H.N., Johnson, K.F., Savina-Rolland, M., **Townsend, H.**, Weijerman, M., Fulton, E.A., Link, J.S.. (2018). Ocean Futures Under Ocean Acidification, Marine Protection, and Changing Fishing Pressures Explored Using a Worldwide Suite of Ecosystem Models. *Frontiers in Marine Science*, 5. doi:10.3389/fmars.2018.00064

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