

## Peer-reviewed Publications

### Maryland Department of Natural Resources staff

#### 2021-2025

Jesse J., Nesslage G., **Matsche** M., Townsend H., Shen C., Testa J., Wilberg M. In press. Quantifying trends in and potential drivers of mycobacteriosis in Atlantic striped bass in Maryland waters of the Chesapeake Bay. Transactions of the American Fisheries Society.

**Matsche** M.A., Blazer V.S., Pulster E.L. 2023. White perch health relative to urbanization and habitat degradation in Chesapeake Bay tributaries. I. Biliary neoplasms and hepatic lesions. DOI 10.3354/dao03733. Diseases of Aquatic Organisms 154:85-105.

**Matsche** M.A., Blazer V.S., Pulster E.L. 2023. White perch health relative to urbanization and habitat degradation in Chesapeake Bay tributaries. II. Hepatic and splenic macrophage aggregates. DOI 10.3354/dao03734. Diseases of Aquatic Organisms 154:107-130.

**Matsche**, M.A. and E. L. Pulster. 2021. Seasonal variation of polycyclic aromatic hydrocarbon metabolites in bile of white perch *Morone americana* from two Chesapeake Bay tributaries. DOI 10.3354/dao03637. Diseases of Aquatic Organisms 147(1):63-86.

Anstead KA, Drew K, Chagaris D, Schueller AM, McNamee JE, Buchheister A, Nesslage G, **Uphoff Jr JH**, Wilberg MJ, **Sharov** A (2021) The path to an ecosystem approach for forage fish management: A case study of Atlantic menhaden. Frontiers in Marine Science 8

**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>

Wolny, J.L., C.B. **McCollough**, 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).

#### 2016-2020

**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.

**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.

**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.

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.

Vázquez, N., R. Aranguren, C.F. **Dungan**, and F. Cremonte. 2018. Parasites in two coexisting bivalves of the Patagonia coast, southwestern Atlantic Ocean: The Puelche oyster (*Ostrea puelchana*) and false oyster (*Pododesmus rudis*). *Journal of Invertebrate Pathology* 158(2018): 6-15.

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.

Hoening, 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.

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.

**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.

**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.

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.

Reece, K.S., G.P. Scott, C. Dang, and C.F. **Dungan**. 2017. A novel *Perkinsus chesapeaki* in vitro isolate from an Australian cockle, *Anadara trapezia*. Journal of Invertebrate Pathology 148(2017): 86-93.

Poukish, C.A., Luckett, C.N., Kaltenbach, N., **Matsche**, M., and A. Place. 2017. An unusual “cold weather” fish kill in Maryland caused by karlotoxin. Proceedings of the 9<sup>th</sup> US Symposium on Harmful Algae, Baltimore, MD.

Flowers, E.M., K. Simmonds, G.A. **Messick**, L. Sullivan, and E.J. Schott. 2016. PCR-based prevalence of a fatal reovirus of the blue crab, *Callinectes sapidus* (Rathbun) along the northern Atlantic coast of the USA. Journal of Fish Diseases 39(6): 705-714.

<http://onlinelibrary.wiley.com/doi/10.1111/jfd.12403/epdf>

## 2011-2015

da Silva, P.M., M.P. Scardua, C.B. Vieira, A.C. Alves, and C.F. **Dungan**. 2015. Survey of pathologies among oysters *Crassostrea gasar* (Adanson 1757) from cultured and wild populations of the São Francisco Estuary, Sergipe, Northeast Brazil. Journal of Shellfish Research 34(2): 289-296.

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**Dungan**, C.F. and D. Bushek. 2015. Development and applications of Ray’s fluid thioglycollate media for detection and manipulation of *Perkinsus* spp. pathogens of marine molluscs. Journal of Invertebrate Pathology 131(2015): 68-82.

Miller, E.A., C.P. **Driscoll**, S. Davison, L. Murphy, E. Bronson, A. Wack, A. Rivas, and J. Brown. 2015. Snowy owl (*Bubo scandiacus*) morbidity and mortality investigations in the DOS region in the winters of 2013-2014 and 2014-2015. Delmarva Ornithologist 44(2015): 4-12.

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**Matsche, M. A.**, Arnold, J., Jenkins, E., **Townsend, H.**, & **Rosemary, K.** (2014). Determination of hematology and plasma chemistry reference intervals for 3 populations of captive Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*). *Veterinary Clinical Pathology*, 43(3), 387-396. doi:10.1111/vcp.12174

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**Jacobs, J. M.**, Harrell, R. M., **Uphoff, J.**, **Townsend, H.**, & Hartman, K. (2013). Biological Reference Points for the Nutritional Status of Chesapeake Bay Striped Bass. *North American Journal of Fisheries Management*, 33(3), 468-481. doi:10.1080/02755947.2013.763876

**Marcino, J.** 2013. A comparison of two methods for colorimetric *in situ* hybridization using paraffin-embedded tissue sections and digoxigenin-labeled hybridization probes. *Journal of Aquatic Animal Health* 25(2): 119-124.

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**Matsche, M.A.**, K.M. **Rosemary**, H.M. Brundage III, and J.C. O'Herron II. 2013. Hematology and plasma chemistry of wild shortnose sturgeon *Acipenser brevirostrum* from Delaware River, USA. *Journal of Applied Ichthyology* 29(1): 6-14.

**Matsche, M.A.** 2013. Relative physiological effects of laparoscopic surgery and anesthesia with tricaine methanesulfonate (MS-222) in Atlantic sturgeon *Acipenser oxyrinchus oxyrinchus*. *Journal of Applied Ichthyology* 29(3): 510-519.

**Matsche, M.A.**, K.M. **Rosemary**, H.M. Brundage III, and J.C. O'Herron II. 2013. Reproductive demographics, intersex, and altered hormone levels in shortnose sturgeon *Acipenser brevirostrum* from Delaware River, USA. *Journal of Applied Ichthyology* 29(2): 299-309.

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Zhang, H., D.A. Campbell, N.R. Sturm, M.A. Rosenblad, C.F. **Dungan**, and S. Lin. 2013. Signal recognition particle RNA in dinoflagellates and the perkinsid *Perkinsus marinus*. *Protist* 164(5): 748-761.

**Dungan**, C.F., R.B. Carnegie, K.M. Hill, C.B. McCollough, S.E. Laramore, C.J. Kelly, N.A. Stokes, and J. Scarpa. 2012. Diseases of oysters *Crassostrea ariakensis* and *C. virginica* reared in ambient waters from the Choptank River, Maryland and the Indian River Lagoon, Florida. *Diseases of Aquatic Organisms* 101(3): 173-183.

**Matsche**, M.A., E. Markin, E. Donaldson, A. Hengst, and A. Lazur. 2012. Effect of chloride on nitrite-induced methemoglobinemia in Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus* Mitchill). *Journal of Fish Diseases* 35(12): 873-885.

**Matsche**, M.A. and J. Gibbons. 2012. Annual variation of hematology and plasma chemistry in shortnose sturgeon, *Acipenser brevirostrum*, during a dam-impeded spawning run. *Fish Physiology and Biochemistry* 38(6): 1679-1696.

**Matsche**, M.A. 2011. Evaluation of tricaine methanesulfonate (MS-222) as a surgical anesthetic for Atlantic sturgeon *Acipenser oxyrinchus oxyrinchus*. *Journal of Applied Ichthyology* 27(2): 600-610.

**Matsche**, M.A., R.S. Bakal, and K.M. **Rosemary**. 2011. Use of laparoscopy to determine sex and reproductive status of shortnose sturgeon (*Acipenser brevirostrum*) and Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*). *Journal of Applied Ichthyology* 27(2): 627-636.

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Tang, F.J., G.A. **Messick**, C.R. Pantoja, R.M. Redman, and D.V. Lightner. 2011. Histopathological characterization and *in situ* detection of *Callinectes sapidus* reovirus. *Journal of Invertebrate Pathology* 108(3): 226-228.

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**2006-2010**

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**Matsche**, M.A., A. Overton, J. **Jacobs**, M.R. **Rhodes**, and K.M. **Rosemary** 2010. Low prevalence of splenic mycobacteriosis in migratory striped bass (*Morone saxatilis*) from North Carolina and Chesapeake Bay. *Diseases of Aquatic Organisms* 90(3): 181-189.

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## 2001-2005

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## 1996-2000

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