

## Peer-reviewed Publications

### 2018

**Frietag**, 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>

**Frietag**, A., B. Vogt, and T. Hartley. 2018. Breaking stereotypes through network analysis of the Chesapeake oyster community. *Marine Policy* 90(2018): 146-151.

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

### 2017

Densmore, C.L., D.D. Iwanowicz, C.A. Ottinger, L.J. Hindman, A.M. Bessler, L.R. Iwanowicz, D.J. Prosser, M. Whitbeck, 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.

Hoenig, J., G. Maya, M. Smith, W. Vogelbein, D. Taylor, D. Landers, J. Swenarton, D. Gauthier, P. Sadler, M. **Matsche**, A. Haines, H. Small, R. Pradel, R. Choquet, and J. 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.

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. <http://www.tandfonline.com/doi/pdf/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.

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.

## 2016

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>

**Leight**, A.K., R. Hood, R. **Wood**, and K. Brohawn. 2016. Climate relationships to fecal bacterial densities in Maryland shellfish harvest waters. *Water Research* 89(2016): 270-281.

## 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.

Dang, C., C.F. **Dungan**, G.P. Scott, and K.S. Reece. 2015. *Perkinsus* sp. infections and in vitro isolates from *Anadara trapezia* mud arks of Queensland, Australia. *Diseases of Aquatic Organisms* 113(1): 51-58.

**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.

## 2014

Arnold, J.E., M.A. **Matsche**, and K. **Rosemary**. 2014. Preserving whole blood in formalin extends the specimen stability period for manual cell counts for fish. *Veterinary Clinical Pathology* 43(4): 613-620.

Bronson, E., H. Spiker, and C.P. **Driscoll**. 2014. Serosurvey for selected pathogens in free-ranging American black bears (*Ursus americanus*) in Maryland, USA. *Journal of Wildlife Diseases* 50(4): 829-836.

da Silva, P.M., M.P. Scardua, R.T. Vianna, R.C. Mendonça, C.B. Vieira, C.F. **Dungan**, G.P. Scott, and K.S. Reece. 2014. Two *Perkinsus* spp. infect *Crassostrea gasar* oysters from cultured and wild populations of the Rio São Francisco estuary, Sergipe, northeastern Brazil. *Journal of Invertebrate Pathology* 119(2014): 62-71.

Flowers, J.R. and M.A. **Matsche**. 2014. Notes on the fish parasite *Nitzschia* (Monogenoidea: Capsalidae) in North America. *Northeastern Naturalist* 21(3): N18-N27.

Shaw, K.S, R.E. Rosenberg Goldstein, X. He, J.M. **Jacobs**, B.C. Crumps, and A.R. Sapkota. 2014. Antimicrobial susceptibility of *Vibrio vulnificus* and *Vibrio parahaemolyticus* recovered from recreational and commercial areas of Chesapeake Bay and Maryland coastal bays. *PLoS One* 9(2): e89616.

## 2013

Blazer, V.S., A.E. Pinkney, J.A. Jenkins, L.R. Iwanowicz, S. Minkkinen, R.O. Draugelis-Dale, and J.H. **Uphoff**. 2013. Reproductive health of yellow perch *Perca flavescens* in selected tributaries of the Chesapeake Bay. *Science of the Total Environment* 447: 198-209.

Dubey, J.P., D. Hill, D. Zarlenga, S. Choudhary, L.R. Ferreira, S. Oliveira, S.K. Verma, O.C.H. Kwok, C.P. **Driscoll**, and H. Spiker. 2013. Isolation and genetic characterization of *Toxoplasma gondii* and *Trichinella murelli* from black bear (*Ursus americanus*). *Veterinary Parasitology* 196: 24-30.

Hanif, A., W. Dyson, H.A Bowers, J.S Pitula, G.A. **Messick**, R. Jagus, and E.J. Schott. 2013. Variation in temporal and spatial incidence of the crustacean pathogen *Hematodinium perezii* in environmental samples from Atlantic coastal bays. *Aquatic Biosystems* 9:11, doi: 10.1186/2046-9063-9-11, <http://www.aquaticbiosystems.org/content/9/1/11>.

**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.

**Matsche**, M.A. 2013. A portable electro-immobilization and laparoscopy system for sex determination and gonadal biopsy in largemouth bass *Micropterus salmoides*. *Journal of Fish Biology* 83(5): 1391-1400.

**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.

**Matsche**, M.A., J. Arnold, E. Jenkins, H. **Townsend**, and K.M. **Rosemary**. 2013. Determination of hematology and plasma chemistry reference intervals from three populations of captive Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*). *Veterinary Clinical Pathology* 43(3): 387-396.

Miller, E.A., E. Brunner, C. **Driscoll**, and P. McGowan. 2013. Botulism...or is it? Wildlife Rehabilitation Bulletin. 31(1): 1-12.

Ng, T.F.F., C.P. **Driscoll**, M.P. Carlos, A. Prioleau, T. Schmieder, B. Dwivedi, J. Wong, Y. Cha, S. Head, M. Breitbart, and E. Delwart. 2013. A distinct lineage of vesiculovirus from big brown bats, United States. Emerging Infectious Diseases 19(12): 1981-1983.

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.

## 2012

**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.

Link, J.S., T.F. Ihde, C.J. Harvey, S.K. Gaichas, J.C. Field, J.K.T. Brodziak, H.M. **Townsend**, and R.M. Peterman. 2012. Dealing with uncertainty in ecosystem models: The paradox of use for living marine resource management. Progress in Oceanography 102(2012): 102-114.

**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.

## 2011

Jeon, S.J., L.C. **Gonsalves**, J.M. **Jacobs**, M. **Rhodes**, J. **Councilman**, A. Baya, E.B. May, and M.D. Fast. 2011. Short-term infection of striped bass *Morone saxatilis* with *Mycobacterium marinum*. Diseases of Aquatic Organisms 94(2): 117-124.

**Leight**, A.K., W.H. Slacum, E.F. Wirth, and M.H. Fulton. 2011. An assessment of benthic condition in several small watersheds of the Chesapeake Bay, USA. Environmental Monitoring and Assessment 176(1-4): 483-500.

**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.

Prasad, M.B.K., L. Wen, X. **Zhang**, R.J. **Wood**, and R. Murtugudde. 2011. Predicting dissolved oxygen in the Chesapeake Bay: applications and implications. *Aquatic Sciences* 73(3): 437- 451.

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.

**Uphoff**, J.H., M. McGinty, R. Lucacovic, J. Mowrer, and B. Pyle. 2011. Impervious surface, summer dissolved oxygen, and fish distribution in Chesapeake Bay subestuaries: Linking watershed development, habitat conditions, and fisheries management. *North American Journal of Fisheries Management* 31(3): 554-566.

Zhang, H., C.F. **Dungan**, and S. Lin. 2011. Introns, alternative splicing, spliced leader *trans*-splicing and differential expression of *pcna* and *cyclin* in *Perkinsus marinus*. *Protist* 162(1): 154-167.

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<http://dx.plos.org/10.1371/journal.pone.0019933>

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Abbe, G.R., C.B. **McCullough**, L.S. Barker, and C.F. **Dungan**. 2010. Performance of disease-tolerant strains of eastern oyster (*Crassostrea virginica*) in the Patuxent River, Maryland, 2003 to 2007. *Journal of Shellfish Research* 29(1): 161-175.

Bowers, H.A., G.A. **Messick**, A. Hanif, R. Jagus, L. Carrion, O. Zmora, and E.J. Schott. 2010. Physicochemical properties of double-stranded RNA used to discover a reo-like virus from blue crab *Callinectes sapidus*. *Diseases of Aquatic Organisms* 93(1): 17-29.

**Kelsey**, R.H., G.I. Scott, D.E. Porter, D. Edwards, and T.C. Siewicki. 2010. Improvements to shellfish harvest area closure decision-making using GIS, remote sensing, and predictive models. *Estuaries and Coasts* 33(3): 712–722.

Kimmel, D.G., W.C. Boicourt, J.J. Pierson, M.R. Roman, and X. **Zhang**. 2010. Mesozooplankton diel variability in response to seasonal hypoxia in the northern Gulf of Mexico USA. *Journal of Plankton Research* 32(8): 1185-1202.

Ladman, B.S., C.P. **Driscoll**, C.R. Pope, R.D. Slemmons, and J. Gelb Jr. 2010. Potential of low pathogenicity avian influenza viruses of wild bird origin to establish experimental infections in turkeys and chickens. *Avian Diseases* 54(3): 1091–1094.

**Ma H.**, H. **Townsend**, X. **Zhang**, M. **Sigrist**, and V. Christensen 2010. Using a fisheries ecosystem model with a water quality model to explore trophic and habitat impacts on blue crabs: A case study using models of the Chesapeake Bay. *Ecological Modeling* 221(7): 997-1004.

**Martino**, E.J. and E.D. Houde. 2010. Recruitment of striped bass in Chesapeake Bay: spatial and temporal environmental variability and availability of zooplankton prey. *Marine Ecology Progress Series* 409: 213-228.

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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.

Najjar, R., C.R. Pyke, M.B. Adams, D. Breitburg, C. Hershner, M. Kemp, R. Howarth, M.R. Mulholland, M. Paolisso, D. Secor, K. Sellner, D. Wardrop, and R. **Wood**. 2010. Potential climate-change impacts on the Chesapeake Bay. *Estuarine, Coastal and Shelf Science* 86(1): 1-20.

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**Jacobs**, J.M., D.W. **Howard**, M.R. **Rhodes**, M.W. **Newman**, E.B. May, and R.M. Harrell. 2009. Historical presence (1975-1985) of mycobacteriosis in Chesapeake Bay striped bass *Morone saxatilis*. *Diseases of Aquatic Organisms* 85(3): 181-186.

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Stine, C.B., J.M. **Jacobs**, A.S. Overton, M. **Rhodes**, and A. Baya. 2009. Expanded range and new host species of *Mycobacterium shottsii* and *M. pseudoshottsii*. *Journal of Aquatic Animal Health* 21(3): 179-183.

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