

Peer-reviewed Publications

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.

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.

Zhang, H., D.A. Campbell, N.R. Sturm, C.F. **Dungan**, and S. Lin. 2011. Spliced leader RNAs, mitochondrial gene frameshifts, and multi-protein phylogeny expand support for the genus *Perkinsus* as a unique group of alveolates. *PLoS ONE* 6(5): e19933.

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

2010

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. Slemons, 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.

Matsche, M.A., J.R. Flowers, E.L. Markin, and C.P. Stence. 2010. Observations and treatment of *Nitzschia sturionis* on Atlantic sturgeon from Chesapeake Bay. *Journal of Aquatic Animal Health* 22(3): 174-181.

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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- Jacobs**, J.M., C.S. Stine, A. Baya, and M. Kent. 2009. A review of mycobacteriosis in marine fish. *Journal of Fish Diseases* 32(2): 119-130.
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- Nagle, L., A.R. Place, E.J. Schott, R. Jagus, G. **Messick**, and J.S. Pitula. 2009. Real-time PCR-based assay for quantitative detection of *Hematodinium* sp. in the blue crab *Callinectes sapidus*. *Diseases of Aquatic Organisms* 84(1): 79-87.
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- Wood**, R. J. and H. M. Austin. 2009. Synchronous multidecadal fish recruitment patterns in Chesapeake Bay, USA. *Canadian Journal of Fisheries and Aquatic Sciences* 66(3): 496-508.
- Zhang, H., S.A. Ludsin, M.R. Roman, W.C. Boicourt, X. **Zhang**, D.G. Kimmel, A.T. Adamack, D.M. Mason, and S.B. Brandt. 2009. Hypoxia-driven changes in the behavior and spatial distribution of pelagic fish and zooplankton in the Northern Gulf of Mexico. *Journal of Experimental Marine Biology and Ecology* 381(S1): S80-S91.

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Costantini, M., S.A. Ludsin, D.M. Mason, X. **Zhang**, W.C. Boicourt, and S.B. Brandt. 2008. Effect of hypoxia on habitat quality of striped bass *Morone saxatilis* (Walbaum) in Chesapeake Bay. *Canadian Journal of Fisheries and Aquatic Sciences* 65(5): 989-1002.

Jacobs, J.M., M. **Rhodes**, B. Martin, D. McIntosh, and R. Harrell. 2008. Tissue specific sampling for the estimation of proximate compositional components in striped bass (*Morone saxatilis*). *Transactions of the American Fisheries Society* 137(2): 386-392.

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Dungan, C.F., K.S. Reece, R.M. **Hamilton**, N.A. Stokes, and E.M. Burreson. 2007. Experimental cross-infections by *Perkinsus marinus* and *P. chesapeaki* in three sympatric species of Chesapeake Bay oysters and clams. *Diseases of Aquatic Organisms* 76(1): 67-75.

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