



Invasive Catfish Workshop

January 29-30, 2020

VCU Rice Rivers Center
3701 John Tyler Memorial Hwy
Charles City, VA 23030

Relevant Literature

Aguilar, Robert, Ogburn, Matthew Bryan, Driskell, Amy C., Weigt, Lee A., Groves, Mary C. and Hines, Anson H. (2017). Gutsy genetics: identification of digested piscine prey items in the stomach contents of sympatric native and introduced warmwater catfishes via DNA barcoding. *Environmental Biology of Fishes*, 100 (4) , 235-336. <https://doi.org/10.1007/s10641-016-0523-8>

Fabrizio, M. C., T. D. Tuckey, R. J. Latour, G. C. White, and A. J. Norris. 2018. Tidal habitats support large numbers of invasive blue catfish in a Chesapeake Bay subestuary. *Estuaries and Coasts* 41: 827-840. <http://link.springer.com/article/10.1007/s12237-017-0307-1>

Fabrizio, M. C., V. Nepal, and T. D. Tuckey. *In prep.* Putting the genie back in the bottle: A case study of invasive Blue Catfish in the Chesapeake Bay region. *North American Journal of Fisheries Management*. [Part of the Catfish 2020 International Symposium, Feb 2020]

Hilling CD, AJ Bunch, JA Emmel, JD Schmitt, DJ Orth. 2019. Growth and mortality of invasive flathead catfish in the tidal James River, Virginia. *Journal of Fish and Wildlife Management* 10(2):641–652. <https://www.fwspubs.org/doi/pdf/10.3996/052019-JFWM-033>

Hilling CD, AJ Bunch, RS Greenlee, DJ Orth, Y Jiao. 2018. Natural mortality and size structure of introduced blue catfish in Virginia tidal rivers. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 5:30-38. http://www.seafwa.org/Documents%20and%20Settings/46/Site%20Documents/2018%20Journal/J5_05Hillingetal30-38.pdf

Luellen, D., M. LaGuardia, T. Tuckey, M. C. Fabrizio, Rice, and R. Hale. 2018. Assessment of legacy and emerging contaminants in an introduced catfish and implications for the fishery. *Environmental Science and Pollution Research* 25: 28355-28366. <https://doi.org/10.1007/s11356-018-2801-9>

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Moran, Z., Orth, D.J., Schmitt, J.D., Hallerman, E.M., and R. Aquilar. 2015. Effectiveness of DNA barcoding for identifying piscine prey items in stomach contents of piscivorous catfish. *Environmental Biology of Fishes*. 96:(1) 161-167. <https://docs.google.com/a/vt.edu/viewer?a=v&pid=sites&srcid=dnQuZWR1fGpvc2VwaC1kLXNjaG1pdHR8Z3g6NTgyZTZkZjUzODAwNWUwNQ>

Nepal, V., and M. C. Fabrizio. 2019. High salinity tolerance of invasive blue catfish suggests potential for further range expansion in the Chesapeake Bay region. *PLoS ONE* 14: e0224770. <https://doi.org/10.1371/journal.pone.0224770>

Nepal, V. and M. C. Fabrizio. 2020. Density-dependence mediates the effects of temperature on growth of juvenile Blue Catfish in nonnative habitats. *Transactions of the American Fisheries Society* 149: 108-120.

Nepal, V., M. C. Fabrizio, and W. Connelly. *In prep.* Phenotypic plasticity in life-history characteristics of invasive populations of blue catfish in Virginia.

Nepal, V., and M. C. Fabrizio. *In prep.* Reproductive and life-history traits of invasive Blue Catfish: Novel tactics in novel environments. North American Journal of Fisheries Management. [Part of the Catfish 2020 International Symposium, Feb 2020]

Nepal, V., M. C. Fabrizio, and R. W. Brill. *In prep.* Growth, body condition and metabolic rates of invasive blue catfish during food limitation.

Orth DJ, Y Jiao, JD Schmitt, CD Hilling, JA Emmel, MC Fabrizio. 2017. Dynamics and role of non-native blue catfish *Ictalurus furcatus* in Virginia's tidal rivers. Final Report to Virginia Department of Game and Inland Fisheries, Henrico, VA. Contract Number: 2012-13705.

<https://www.researchgate.net/publication/321920095> Dynamics and Role of Non-native Blue Catfish *Ictalurus furcatus* in Virginia's Tidal Rivers Final Report

Schloesser, R.W., M.C. Fabrizio, R.J. Latour, G.C. Garman, R. Greenlee, M. Groves, and J. Gartland. 2011. Ecological role of Blue Catfish (*Ictalurus furcatus*) in Chesapeake Bay communities and implications for management. In Conservation, ecology, and management of catfish: the second international symposium, ed. P. Michaletz and V. Travnichek. American Fisheries Society, Bethesda, MD.

Schmitt JD, JA Emmel, AJ Bunch, CDHilling, DJ Orth. 2019. Feeding ecology and distribution of an invasive apex predator: flathead catfish (*Pylodictis olivaris*) in subestuaries of the Chesapeake Bay, Virginia, USA. North American Journal of Fisheries Management 39(2): 390–402.

<https://www.researchgate.net/publication/331216039> Feeding Ecology and Distribution of an Invasive Apex Predator Flathead Catfish *Pylodictis olivaris* in subestuaries of the Chesapeake Bay Virginia USA

Schmitt, J.D., Moran, Z., Emmel, J.A., Bunch, A., Hallerman, E.M., and D.J. Orth. 2017. Predation and prey selectivity by nonnative catfishes on migrating alosines in an Atlantic slope estuary. Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science 9(1):108-125.

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<https://www.researchgate.net/publication/335942428> Modeling the predation dynamics of invasive blue catfish *Ictalurus furcatus* in Chesapeake Bay

Schmitt JD, BK Peoples, L Castello, DJ Orth. 2018. Feeding ecology of generalist consumers: a case study of invasive blue catfish *Ictalurus furcatus* in Chesapeake Bay, Virginia, USA. Environmental Biology of Fishes. <https://www.researchgate.net/publication/326018313> Feeding ecology of generalist consumers a case study of invasive blue catfish *Ictalurus furcatus* in Chesapeake Bay Virginia USA

Tuckey, T. D., M. C. Fabrizio, A. J. Norris, and M. Groves. 2017. Low apparent survival and heterogeneous movement patterns of invasive blue catfish in a coastal river. Marine & Coastal Fisheries 9: 564-572. <http://dx.doi.org/10.1080/19425120.2017.1381207>