

TODD SWANNACK – is the team lead for the Integrated Ecological Modeling Team at the US Army Engineer Research and Development Center (ERDC). He develops models quantitative ecological models to evaluate impacts and benefits of civil works and military projects on ecological communities. Todd and his team develop models for endangered species, invasive species, landscape changes, thin layer placement, and other engineering with nature projects. His team’s work with invasive Zebra Mussels, funded principally by the Aquatic Nuisance Species Research Program (ANSRP), included developing an integrated, spatially-explicit simulation model that can simulate how human-mediated transport impacts the population dynamics and dispersal of the species. Todd received his B.A. in Biology from Texas A&M (1995), his M.S. from Texas State University (2000), and his Ph.D. from Texas A&M (2007).



The integrated ecological modeling team on a cold, wet day in July sampling for Zebra mussels on the St. Croix River. Pictured from left to right, Drs. Candice Piercy, Michael Kjelland, and Todd Swannack.