Name: F. Joel Fodrie

STAC Member Since: October 2009

Title: Research Assistant Professor

Department: Institute of Marine Sciences

Organization: University of North Carolina at Chapel Hill

Education: PhD Biological Oceanography, Scripps Institution of Oceanography (2006)

BA Biology and History, University of North Carolina at Chapel Hill (1999)

Primary Focus Area: Fisheries oceanography/ecology

Secondary Focus Area(s): Estuarine food-web ecology, population ecology, nursery habitat; seagrass ecology

Career Experiences: I study fish and bivalve population ecology, with emphasis on: 1) connectivity of marine populations and ecosystems; 2) complex trophic interactions in estuarine communities; 3) ecosystem function in relation to habitat quality, availability and utilization; and 4) long-term community patterns. Additionally, I have conducted experiments related to recruitment processes and mechanisms, as well as restoration ecology. Research tools have included manipulative field/laboratory experiments, intensive field surveys, GIS simulations, ROVs, stable isotope analyses, population projection matrix models and trace element fingerprinting. These research themes are directly related to the maintenance and management of coastal ecosystems.