

Kara Radabaugh, PhD

kradabau@mail.usf.edu

Education	Ph.D. of Biological Oceanography <i>University of South Florida College of Marine Science</i> Major Advisor: Dr. Ernst Peebles Research topics: Gulf of Mexico fish trophic relationships, marine stable isotope ecology, estuarine distributions of fish larvae and phytoplankton	2013
	B.S. Biology <i>Hope College</i> , Holland, MI Minors: Chemistry and Music. Graduated Magna Cum Laude	2007

Publications and Manuscripts

Radabaugh, K.R., Hollander, D.J. and Peebles, E.B. Seasonal $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ isoscapes of fish populations along a continental shelf trophic gradient. *Continental Shelf Research* 68:112-122

Radabaugh, K.R., Malkin, E.M., Hollander, D.J. and Peebles, E.B. Light-environment effects on carbon isotope fractionation by aquatic microalgae in an estuarine environment. *Marine Ecology Progress Series* 495: 77–90

Radabaugh, K.R. 2013. Light-environment controls and basal resource use of planktonic and benthic primary production. *Doctoral dissertation*, University of South Florida.

Radabaugh, K.R. and Peebles, E.B. 2012. Detection and classification of phytoplankton deposits along an estuarine gradient. *Estuaries and Coasts* 35:1361-1375

Bultman, T.L., Rodstrom, J.L., **Radabaugh, K.R.**, VanDop, J.D., Librizzi, J.M., Longwell L.L., Pulas C., Grant L. and Sullivan, T. J. 2009. Influence of genetic variation in fungal endophyte of a grass on an herbivore and its parasitoid. *Entomologia Experimentalis et Applicata* 130: 173-180

Radabaugh, K.R., Hollander, D.J. and Peebles, E.B. A dynamic model for $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ values of fish populations on the West Florida Shelf (submitted to *Continental Shelf Research*)

Radabaugh, K.R. and Peebles, E.B. Staggered responses of estuarine phytoplankton and zooplankton to acceleration of freshwater flow (in prep)

Presentations

Radabaugh, K.R. and Peebles, E.B. Detection and classification of phytoplankton deposition in the Caloosahatchee Estuary. <i>USF College of Marine Science Graduate Student Symposium. Oral Presentation</i>	2012
Radabaugh, K.R. and Peebles, E.B. Fluorometry-based detection of freshwater inflow effects on estuarine phytoplankton deposition. <i>ASLO Ocean Sciences Meeting. Poster Presentation</i>	2012
Radabaugh, K.R., Wallace, S.A., Huelster, S.A., Hollander, D.J. and Peebles, E.B. Comparison of vertebral $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ records with organism-based isoscapes to identify fish migration, site fidelity and food-web preferences of fishes in the eastern Gulf of Mexico, USA. <i>AGU Fall Meeting. Oral Presentation</i>	2011
Radabaugh, K.R., Huelster, S.A., Hollander, D.J. and Peebles, E.B. Application of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ isoscapes to studies of fish site fidelity and basal resource variation on the West Florida Shelf. <i>Isoscapes Meeting. Poster Presentation</i>	2011
Radabaugh, K.R., Huelster, S.A., Hollander, D.J. and Peebles, E.B. Variation in Fish $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ along a Climatic Gradient: Implications for site fidelity and selective trophic pathway effects. <i>USF College of Marine Science Graduate Student Symposium. Oral Presentation. Tied 1st place for Best Student Presentation.</i>	2011
Radabaugh, K.R., Huelster, S.A., Hollander, D.J. and Peebles, E.B. Variation in Fish $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ along a Climatic Gradient: Implications for site fidelity and selective trophic pathway effects. <i>Southern Division of the American Fisheries Society Spring Meeting. Oral Presentation</i>	2011
Radabaugh, K.R., Huelster, S.A., Hollander, D.J. and Peebles, E.B. Variation in Fish $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ along a Climatic Gradient: An Isoscape Perspective for the West Florida Shelf. <i>AGU Fall Meeting. Poster Presentation</i>	2010
Radabaugh, K.R., Malkin, E.M., Wolfgang, K.J., Hollander, D.J. and Peebles, E.B. Rainy season controls on water chemistry, algal growth rates, and photosynthetic carbon isotope fractionation in Bayboro Harbor. <i>USF College of Marine Science Graduate Student Symposium. Oral Presentation.</i>	2009
Radabaugh, K.R., Ellis, G.S. and Peebles, E.B. Integrated pelagic and benthic responses to managed freshwater diversions into the Caloosahatchee River estuary: Early results from a new multi-sensor platform. <i>USF Research One Poster Symposium and Competition. Poster presentation.</i>	2008

Research Cruises and Field Experience

Ten Thousand Islands, Florida 4-day juvenile goliath grouper sampling and sediment core extraction. PIs: Dr. Chris Koenig of FSU and Dr. Chris Stallings of USF	2013
West Florida Shelf, Gulf of Mexico 12-day bottom trawling cruise on the R/V Tommy Munro with the Florida Fish and Wildlife Conservation Commission for the Southeast Area Monitoring and Assessment Program (SEAMAP) survey	2010
West Florida Shelf, Gulf of Mexico 11-day bottom trawling cruise on the R/V Tommy Munro with the Florida Fish and Wildlife Conservation Commission for the SEAMAP survey	2010

West Florida Shelf, Gulf of Mexico	2010
7-day research cruise on the R/V Weatherbird to the Deepwater Horizon oil spill. Collected various water samples, optic measurements, and performed bottom trawls to establish baseline fish populations in preimpacted areas. PI: Dr. David Jones	
Brazilian Continental Shelf	2010
21-day paleoclimatology cruise on the R/V Knorr to take sediment cores in the outflow of the Amazon River. PIs: Dr. David Hollander of USF and Dr. Paul Baker of Duke University	
Florida Keys	2009
3-day sea-floor mapping cruise on the R/V Weatherbird. PI: Dr. David Naar	
Caloosahatchee River Estuary, Fort Myers, FL	2008-2010
2-year project involving monthly monitoring of water quality and zooplankton distribution. PI: Dr. Ernst Peebles of USF & Dr. Greg Tolley of FGCU	
