

College of Marine Science
140 7th Avenue South
Saint Petersburg, FL 33701
stbeckwith@usf.edu
mobile: 727-744-2176

Curriculum Vitae

Sean T. Beckwith

Education

- 2016 M.S. Geological Oceanography, University of South Florida College of Marine Science, Saint Petersburg, FL, 3.73 GPA. Thesis: Abundance of *Archaias angulatus* on the West Florida Coast Indicates the Influence of Carbonate Alkalinity over Salinity. Advisor Pamela Hallock Muller
- 2002 B.S. Environmental Science, University of Florida, Gainesville, FL

Relevant Work and Research Experience

- 2019-present Graduate student researcher, CMS Ocean Technology Group. Work with past data sets to apply salinity corrections to sensor data exhibiting thermal lag. Also assist in deployment and recovery of autonomous underwater gliders.
- 2017-present Science communicator, USF College of Marine Science (CMS). Communicate scientific work of CMS researchers using multimedia (Adobe Creative Suite) and written articles targeted to a general audience. Participate in cruises and conferences.
- 2015-2016 Volunteer, USGS St. Petersburg Coastal and Marine Center. Performed spectrometric measurements of total alkalinity and coulometric measurements of dissolved inorganic carbon in the CO₂ System Laboratory (Dr. Kimberly Yates). Modified TA method for freshwater influenced carbonate system chemistry.
- 2014-2016 Student researcher, USF College of Marine Science. Operated small research vessels to collect sediment and water samples. Measured carbonate system seawater variables using spectrometry, spectrophotometry, and coulometry. Sorted and picked foraminifera to identify symbiont bearing specimens and to recognize dissolution characteristics. Developed species distribution and oceanographic characteristics using a GIS. Statistically analyzed CO₂ system end members and spatial distribution of foraminifera.
- 2007-2008

Publications

Beckwith ST, Byrne RH and Hallock P (2019) Riverine Calcium Members Improve Coastal Saturation State Calculations and Reveal Regionally Variable Calcification Potential. Front. Mar. Sci. 6:169. doi:10.3389/fmars.2019.00169

Beckwith, Sean Thomas, "Abundance of *Archaia angulatus* on the West Florida Coast Indicates the Influence of Carbonate Alkalinity over Salinity" (2016). Graduate Theses and Dissertations. <https://scholarcommons.usf.edu/etd/6463>

Published Abstracts

- AGU 2016 Refugia for Carbonate Producing Organisms in High Carbon Dioxide Environmental Conditions (Poster)
- GSA 2016 Abundance of on the inner west Florida shelf suggests the influence of carbonate alkalinity over salinity (Oral)
- GSA 2015 Distribution of on the inner west Florida shelf: substrata and water chemistry versus temperature (Poster)

Awards and Honors

- 2015 Joseph A. Cushman Award for Student Research, Cushman Foundation for Foraminiferal Research
- 2001 Presidential Recognition student senator at the University of Florida
- 2001 Award for Silent Leadership within Theta Chi fraternity, University of Florida

Teaching and Mentoring Experience

- 2016 Laboratory mentor to undergraduate student from USFSP. Instructed mentees methods for washing and picking sediment samples for foraminiferal research
- 2011 Primary education assistant teacher, grades 3 – 12, International Calvary Academy,