Anna Black, Williams College

Testing ENSO's Driving Role in Southwestern US Megadroughts Advisor: Sloan Coats, Geology & Geophysics

David Brinkley, Amherst College

Thermal Acclimation in the Anemone Nematostella vectensis Advisor: Ann Tarrant, Biology

Ella Cedarholm, University of New Hampshire Investigating the Mysterious Deep Cesium from Fukushima Oceanography Advisors: Alison Macdonald, Irina Rypina and Sachiko Yoshida, Physical Oceanography

Jinshi Chen, Cornell University Surfzone Setup and Alongshore Currents during Hurricane Matthew Advisor: Britt Raubenheimer, Applied Ocean Physics & Engineering

Maya Chung, Harvard University *Quantifying isopycnal heave using Dynamic Depth Warping* Advisor: Geoffrey Gebbie, Physical Oceanography

Kyle Conner, University of California, San Diego Assessing Ecosystem Calcification and Production in Benthic Environments Using Gradient Exchange Systems Advisor: Matthew Long, Marine Chemistry & Geochemistry

Julia Cox, University of Massachusetts Amherst Zooplankton Regime Shifts and Spatial Variability on the Southern New England Shelf Advisor: Joel Llopiz, Biology

Ashley Davis, University of South Carolina Last Interglacial Sea Surface Temperatures and Variability in the Atlantic Warm Pool Advisor: Anne Cohen and Dan McCorkle, Geology & Geophysics

David Davis, Georgia State University *Constraints on Vanadium Isotope Composition of Vesta* Advisor: Sune Nielsen, Geology & Geophysics

Holly Francis, Stanford University Design and Construction of a Surf-Capable Autonomous Surface Vessel Advisor: Peter Traykovski, Applied Ocean Physics & Engineering

Maxwell Furigay, Trinity College *Changes in the Carbonate System of Red Sea Water due to Dust* Advisor: Aleck Wang, Marine Chemistry & Geochemistry

Devon Gaynes, SUNY Stony Brook *Hurricane-Driven Export of Mid-Atlantic Bight Shelf Waters near Cape Hatteras in September 2017* Advisors: Robert Todd and Magdalena Andres, Physical Oceanography

Rachel Gold, Brown University Dating the opening of the St. Lawrence Valley as a conduit for glacial meltwater and potential trigger of the Younger Dryas Advisor: Jeff Donnelly, Geology & Geophysics

Samantha Kenah, Skidmore College *Evolution of small-scale horizontal variability in the coastal ocean* Advisor: Anthony Kirincich, Physical Oceanography

James Kershaw, University of Cambridge *Proxy Wars: Mg/Li as an Alternative to Mg/Ca in the Calcitic Foraminifera* U.peregrina Advisor: Delia Oppo, Geology & Geophysics

Muriel Leung, University of Pennsylvania Quantifying the Impact of Ocean Acidification on Coral Growth: Combining Experimental Observations with a Skeletal Growth Model Advisors: Weifu Guo and Anne Cohen, Geology & Geophysics

Emily Maness, The University of Tampa Invasion of the body snatchers: Investigation of Syndiniales (MALV II) parasites in Salt Pond Advisor: Virginia Edgcomb, Geology & Geophysics

Claire Mayorga, University of Texas at Austin *The Effect of Ditching on Carbon Cycling in Salt Marshes* Advisors: Meagan Gonneea, U.S. Geological Survey, and Amanda Spivak, Marine Chemistry & Geochemistry

Adriane McDonald, Spelman College Exposure to PCB153 affects circadian rhythm behavior and gene expression in zebrafish Advisor: Neel Aluru, Biology

Samuel McNichol, Oberlin College

Development and Assessment of a Novel LED-Based Approach to Quantify the Wavelength Dependence of the Coupled Photochemical and Biological Degradation of Dissolved Organic Matter in Sunlit Surface Waters Advisor: Collin Ward, Marine Chemistry & Geochemistry

William Pardis, Montana State University

Miniature Low-Cost Gas Sensor Development - Aquatic and Volcanic Advisors: Anna Michel, Applied Ocean Physics & Engineering, and David Nicholson, Marine Chemistry & Geochemistry

Edwin Rainville, California Polytechnic State University Comparison of Surface Turbulent Heat Fluxes between CMIP5 Analyses and Satellite Estimations Advisor: Carol Anne Clayson, Physical Oceanography

Noa Randall, Smith College

Effect of tributary creeks on estuarine dispersion Advisor: Rocky Geyer, Applied Ocean Physics & Engineering

Miraflor Santos, New York University, Abu Dhabi

A Gradient in Phytoplankton Size Distribution across the Northeast U.S. Shelf Advisors: Heidi Sosik and Stace Beaulieu, Biology

Elizabeth Scheibe, Yale University

Effect of Group Composition on Whistle Production in Free-Ranging Bottlenose Dolphins Advisor: Laela Sayigh, Biology

Patrick Scordato, University of Massachusetts Amherst *Evaluating the reconstruction of intertidal beach morphology from a web camera* Advisor: Chris Sherwood, U.S. Geological Survey

Jane Sedlak, Oberlin College Solving the Marine Methane Paradox: Isolation, Quantification and Isotopic Analysis of Methylphosphonic Acid Advisor: Daniel Repeta, Marine Chemistry & Geochemistry

Ankur Shah, University of Alabama in Huntsville *Estimating the Expected Value of Research on the Biological Carbon Pump* Advisor: Di Jin, Marine Policy Center

Iulia Streanga, University of Edinburgh Calibrating Sr/Ca ratios and δ 18O to sea surface temperature and salinity in the West Pacific Warm Pool Advisor: Konrad Hughen, Marine Chemistry & Geochemistry

Nicole Suren, University of Miami *Fish on Defense: How xenobiotic chemical exposures affect* Fundulus heteroclitus *PXR expression* Advisor: Jed Goldstone, Biology

Brooke Torjman, Muhlenberg College Food affects swimming behavior of larval Crepidula fornicata Advisor: Lauren Mullineaux, Biology

Peter Ventola, United States Naval Academy *Improving Sonar Data Collection on the Slocum Glider* Advisor: Richard Camilli, Applied Ocean Physics & Engineering

Peidong Wang, University of Wisconsin-Madison Synthesis of Tree-Ring Records and Coupled Climate Model Simulations to Understand North Atlantic Regional Climate Response to Volcanic Eruptions in the Last Millennium Advisor: Caroline Ummenhofer, Physical Oceanography