Ashley Arroyo, University of Massachusetts

Rising Temperatures, Falling Isopycnals and Decreasing AOU: The Story of Abyssal Property

Change at 24°S in the Atlantic (2009-2018)

Advisors: Alison Macdonald and Sachiko Yoshida, Physical Oceanography

Melissa Baldino, Duke University

Quantifying ecosystem structure and services provided by tropical seaweed farms

Advisor: Hauke Kite-Powell, Marine Policy Center

Samuel Bartusek, Princeton University

The role of coastal ocean surface fluxes during landfalling Atmospheric Rivers

Advisors: Hyodae Seo and Caroline Ummenhofer, Physical Oceanography

Laura Blum, Middlebury College

Microbial drivers of nitrogen metabolism: Searching Tara Oceans metagenomes

Advisors: Harriet Alexander and Maria Pachiadaki, Biology

Gregory Burgess, United States Naval Academy

Got Ice? A Statistical Approach to Marking Sea Ice and Atmospheric Conditions with a Low-Powered Imaging Sonar

Advisor: Richard Camilli, Applied Ocean Physics and Engineering

Mary Burnam, University of Georgia

Investigation of Ocean Flows using Remotely Sensed (Drone) Videos of the Sea Surface Analyzed using Particle Image Velocimetry (PIV)

Advisors: Britt Raubenheimer and Steve Elgar, Applied Ocean Physics and Engineering

Siyuan-Sean Chen, University of Bristol

Insights into Cycling of 231Pa and 230Th in Benthic Nepheloid Layers of the Western North Atlantic Ocean

Advisor: Olivier Marchal, Geology and Geophysics

Solomon Chen, University of Hawai'i at Manoa

PhRePhOx: An in-situ approach to quantifying carbon cycling processes

Advisor: Matthew Long, Marine Chemistry and Geochemistry

Lisa Coe, University of Pittsburgh

Phosphate may be fully reduced to phosphine gas in anoxic seawater

Advisor: Ben Van Mooy, Marine Chemistry and Geochemistry

Meagan Currie, Swarthmore College

Direct Seeding: Examining the effect of strain variation and developmental stage of Sugar Kelp Saccharina latissimi

Advisor: Scott Lindell, Applied Ocean Physics and Engineering

Marcella da Costa, Saint Augustine's University

Analysis of Waquoit Bay Phytoplankton Diversity and Abundance Using Multiple Methods Advisor: Rebecca Gast, Biology

Sally Dowd, University of California Berkeley

Conserving a Sea of Shadow and Substance: Should there be a Moratorium on the Harvest of

Twilight Zone Fish?

Advisor: Porter Hoagland, Marine Policy Center

Irene Duran, California State University, Chico

Creating a Light Fixture to Model the Lights and Cameras on an AUV

Advisors: Chris Rauch and Gwyneth Packard, Applied Ocean Physics and Engineering

Marta Faulkner, Cornell University

Periodically-forced ice thickness and drift in the eastern Arctic: an analytical approach

Advisor: Michael Spall, Physical Oceanography

Mariya Galochkina, Rutgers University

Benthic δ 180 evidence for the transfer of Common Era surface temperature anomalies via North Atlantic Deep Water

Advisor: Delia Oppo, Geology and Geophysics

Erica Herrera, The University of Texas at El Paso

Exploring Microbial Food Web Dynamics across Transition Zones

Advisor: Julie Huber, Marine Chemistry and Geochemistry

Anne Kroo, Franklin W. Olin College of Engineering

Single Hydrophone Localization

Advisor: Erin Fischell, Applied Ocean Physics and Engineering

Gibson Leavitt, Roger Williams University

Influence of extratropical storms on coastal processes of an inlet on the eastern coast of Florida Advisor: John Warner, U.S. Geological Survey

Jonathan Low, University of Tampa

Analyzing spatial variations of zooplankton community size structures on the Northeast US Shelf Advisor: Joel Llopiz, Biology

Sara Matsumura, Haverford College

Microplastics in New Bedford Harbor

Advisor: Anna Michel, Applied Ocean Physics and Engineering

Noreen McNamara-Bordewick, Barnard College

Metabolic Enzyme Activity over a Daily Cycle in Vertically Migrating Copepods

Advisor: Ann Tarrant, Biology

Shuai Meng, Ocean University of China

Evolution and Seasonal Variability of Gulf Stream Warm Core Rings

Advisor: Ke Chen, Physical Oceanography

Jennifer Necker, Eckerd College

Novel manganese oxidation along the Quashnet River

Advisors: Scott Wankel and Colleen Hansel, Marine Chemistry and Geochemistry

William Nguyen, University of Maryland, College Park

Applications of the Radium Quartet to Quantify Water Exchange in Salt Marshes

Advisor: Matthew Charette, Marine Chemistry and Geochemistry

Alexandra Nordyke, Bennington College

Determining magma storage depths and ascent rates from volatiles in olivine-hosted melt inclusions

Advisor: Glenn Gaetani, Geology and Geophysics

Henry Nye, Haverford College

Assessing the Statistical Uniqueness of the Younger Dryas: A Robust Multivariate Analysis

Advisor: Alan Condron, Geology and Geophysics

Virginia Pan, Duke University

Dense Beach Surveying Using Stereo Camera and Post-Processing Kinematic GPS

Advisor: Peter Traykovski, Applied Ocean Physics and Engineering

Ellen Park, Cornell University

Zombie Coral: What can Jarvis 497 teach us about corals surviving climate change?

Advisor: Anne Cohen, Geology and Geophysics

Madison Schumm, The University of Texas at Austin

The effect of pile driving noise on mating behavior in squid (Doryteuthis pealeii)

Advisor: Aran Mooney, Biology

Sarah Stopak, Oberlin College

Quantifying the Importance of Ice-Rafted Debris to Salt Marsh Sedimentation in Plum Island Ecosystems Long-Term Ecological Research Site

Advisor: Neil Ganju, U.S. Geological Survey

Riley Wadehra, Colorado College

The Influence of Seasonal River Runoff on Sea Level Variability

Advisor: Christopher Piecuch, Physical Oceanography

Matthew Whittaker, North Carolina State University

Metamorphosis of larval Crepidula plana in response to turbulent flow

Advisor: Lauren Mullineaux, Biology

Weiguang Wu, University of California, San Diego

Directional Wavenumber Spectrum of Ocean Internal Waves

Advisor: J. Thomas Farrar, Physical Oceanography