

REU Projects Conducted at BIOS

Student and Affiliation	BIOS Advisor	Project
2024		
Cecelia Darter (Arizona State University, Tempe)	Rachel Parsons	Heat Induced Changes in Sargassum Microbiome: Implications of Rising Ocean Temperatures
Annabelle Davis (Stanford University)	Dr. Chloe Carbonne	Artificial upwelling as a mitigation tool for coral bleaching during marine heatwaves
Makena Krause (Arizona State University, Tempe)	Dr. Eric Hochberg	Investigating Environmental Drivers of Coral Reef Community Metabolism
Rachel McCarty (University of Alabama in Huntsville)	Dr. Brett Jameson	Understanding <i>Symbiodiniaceae</i> 's Role in Thermal Tolerance Across Three Species of Reef-Building Coral
Sara McElroy (Cedarville University)	Dr. Brett Jameson	Observing the mechanisms of thermal resiliency in corals by analyzing protein concentration after legacy stress tests
Ronisha Rush (Clafflin University)	Dr. Leocadio Blanco-Bercial / Dr. Amy Maas	Seasonality of Marine Snow Particles in the Sargasso Sea
Carly Travers (Florida International University)	Dr. Chloe Carbonne	Effects of artificial upwelling on two Bermudian reef-building corals
Lilian Zhu (Harvey Mudd College)	Dr. Rod Johnson	Mesoscale Eddy Transformations in the Sargasso Sea
2023		
Serena Aguilar (Arizona State University, Tempe)	Dr. Amy Mass / Hannah Gossner	Analyzing the Seasonality of Rhizaria at BATS
Annabel Burcham (University of North Carolina, Wilmington)	Dr. Yvonne Sawall / Dr. Samantha de Putron	Comparative Tissue Analysis of Juvenile <i>Porites astreoides</i> Following Heat Stress Exposure
Miranda Dudek (Oakland University)	Dr. Eric Hochberg	Relationship Between Water Flow and Coral Community Primary Production

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Austin Dunham (Portland State University)	Dr. Amy Mass / Hannah Gossner	Marine Ecosystem Assessment with Plankton Health Indices
Morgan Hernandez (University of Texas, Permian Basin)	Dr. Amy Mass / Hannah Gossner	Evaluation of Environmental Triggers on Dimorphism in Pelagic Fungi
David Jen (University of California, Los Angeles)	Dr. Yvonne Sawall / Dr. Samantha de Putron	Effect of Artificial Upwelling on Thermally Stressed Coral Biometrics
Cade Meyer (Iowa State University)	Dr. Yvonne Sawall / Dr. Samantha de Putron	Legacy of Thermal Stress in <i>Montastraea cavernosa</i>
Madeleine Regulla-Wilkens (Dartmouth College)	Rachel Parsons	Protocol Development for Nano-plastic Identification and Distribution Across Marine Environments
Gabriel Rodriguez-Roig (Florida International University)	Dr. Yvonne Sawall / Dr. Samantha de Putron	Artificial Upwelling Mitigates Bleaching in Three Bermudian Coral Reef Species
2022		
Talia Barry (University of Tampa)	Dr. Samantha de Putron	Investigating thermal resilience of <i>Porites astreoides</i> with different thermal histories in Bermuda
Jada Brown (University of Tampa)	Dr. Samantha de Putron	Response and resilience of <i>Montastraea cavernosa</i> from Bermuda to a simulated thermal stress event
Luísa Castro-Meirelles (College of William & Mary)	Dr. Eric Hochberg	Primary Production on a Bermuda Rim Reef
Kaylee Cooper (University of California, Los Angeles)	Dr. Samantha de Putron	Effect of an induced thermal stress event on the physiology of <i>Porites astreoides</i>
Natalie Graham (University of Louisiana at Lafayette)	Dr. Yvonne Sawall / Dr. Damian Grundle	Changes in biogeochemical water properties and their effects on coral metabolism
Min Han (University of California, Irvine)	Dr. Samantha de Putron	Comparison of environmental parameters at the Bermuda marine mesocosm facility and a coral reef site
Ceridwyn Hunter (Michigan State University)	Dr. Eric Hochberg	Light Absorption by Bermuda Rim Reef Communities

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Emma Sue Jones (Antioch College)	Dr. Eric Hochberg	Census Based Productivity Estimates for Bermuda's Reefs
Isabel Martínez-Farrington (University of Puerto Rico, Humacao)	Dr. Yvonne Sawall	Environmental Drivers of Reef Community Metabolism
2021		
Olivia Dudley (New York University)	Rachel Parsons	Analyzing the influence of substrate color on the bacterial colonization of plastics in seawater
Siarah Hall (Louisiana State University)	Dr. Eric Hochberg	Exploring variability in light-use efficiency of coral reef communities
Jacob Harrison (University of Michigan)	Rachel Parsons / Dr. Andrew Peters	Assessing the Response of the Marine Microbial Community in Bermuda Inshore Waters to Plastic Leachates
Kelly Koehler (North Carolina State University)	Dr. Yvonne Sawall	Quantifying the gross productivity and energy budget of shallow-water coral reefs
Sarah Lehman (Pennsylvania State University)	Ruth Curry / Dr. Damian Grundle	Quantifying O ₂ Production and Drawdown in the Sargasso Sea using Glider and Ship Observations
Kaitlyn Lindholm (University of Idaho)	Ruth Curry / Dr. Damian Grundle	Utilizing autonomous glider data to estimate phytoplankton carbon concentrations in the Sargasso Sea
Margaret Lockwood (University of Kansas)	Rachel Parsons	Influence of Solar Radiation on Plastic Microbial Communities in Mesocosm Experiments
Natalie Munich (Saint Mary's University of Minnesota)	Tim Noyes	Assessing the relationship between reef fish assemblages and benthic habitat characteristics in Bermuda
Orlando Rios Cortes (University of Puerto Rico, Rio Piedras)	Ruth Curry / Dr. Damian Grundle	High-resolution observations of vertical diffusivity in the Sargasso Sea
2020		
Nicole Adamson (University of California, San Diego)	Dr. Yvonne Sawall	Diurnal dynamics of corals and algae photobiology: The relationship of photosynthetic efficiency, photoprotection and gross photosynthetic rates

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Jacob Ancri (Rensselaer Polytechnic Institute)	Dr. Andrew Peters	Method Development for the Analysis of Microplastics in Aerosols
Jerry Goss (Olin College of Engineering)	Dr. Leocadio Blanco-Bercial	Zooplankton and Image Classification of BATS Dataset
Gaile Greene (Roger Williams University)	Dr. Amy Maas	Optimizing captivity conditions for the abundant Bermuda copepod, <i>Calanopia americana</i>
Cali Grincavitch (Harvard College)	Tim Noyes	Testing a Low Cost Sub-surface Automated Sampler for eDNA Metabarcoding
Shannon Lemieux (Oregon State University)	Dr. Eric Hochberg	Phenology of <i>Porites astreoides</i> pigment dynamics with respect to light and temperature in Bermuda
Natalia Padillo-Anthemides (Florida International University)	Dr. Yvonne Sawall	Daytime Respiration and Gross Photosynthesis in Dominating Reef Photosynthesizers: Identifying Patterns and Variations
Adam Shaham (Georgetown University)	Tim Noyes	Modeling distribution of vulnerable prey fish species
2019		
Tiburon Benavides (Rensselaer Polytechnic Institute)	Rachel Parsons	Methylphosphonate Impact on the Sargassum Microbiome
Isaiah Calhoun (Georgia Highlands College)	Rachel Parsons	Microbial Succession to Limiting Oxygen
Harvey Castillo (Northern Arizona University)	Dr. Amy Maas	Physiological Reactions to Changing Temperatures in <i>Calanopia americana</i>
Michelle Diminuco (University of Virginia)	Dr. Gretchen Goodbody-Gringley / Dr. Samantha de Putron	Assessing the Physiological Plasticity of the Coral <i>Porites astreoides</i> to Environmental Change
Allison Doolittle (Los Angeles Harbor College)	Dr. Yvonne Sawall	Does <i>In-situ</i> Oxybenzone Concentration Impact the Photosynthetic Efficiency of Bermudian Corals?
Sophie Ferguson (University of Miami)	Dr. Eric Hochberg	Impact of Chronic, Low-Level Oxybenzone Exposure on the Photophysiology of Bermuda Corals

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Andrew Matsiev (University of California, Santa Cruz)	Tim Noyes	Determining Mangrove Habitat Use by Reef Fishes Using Environmental DNA (eDNA)
Charles Schneider (Colorado College)	Dr. Yvonne Sawall	Diel Variation in Coral and Algal Respiration
Ashley Smith (Rensselaer Polytechnic Institute)	Dr. Gretchen Goodbody-Gringley	<i>Pterois miles</i> and <i>Pterois volitans</i> : Do their Population Demography and Ecology Differ?
2018		
Jacob Cooper (University of Washington)	Dr. Eric Hochberg	Trends and variability in water clarity on and around Bermuda's coral reefs
Ellie Corbett (Eckerd College)	Tim Noyes	Assessing the utility of lionfish traps for preserving biodiversity
David Flesher (Arizona State University, Tempe)	Dr. Yvonne Sawall	Assessing light use efficiencies (LUEs) of benthic reef communities for spectral modeling applications
Adriana Formby-Fernandez (Embry-Riddle Aeronautical University)	Dr. Mark Guishard	Effects of upwelling on steering flow for Hurricane Bertha (2008)
Rebecca Ju (Yale University)	Dr. Gretchen Goodbody-Gringley / Dr. Samantha de Putron	Thermal performance of mesophotic coral populations
Gillian Palino (University of Florida)	Rachel Parsons	Devil's Hole: An Oxygen Minimum Zone Time Series
Alec Weaver (Oregon State University)	Rachel Parsons	Identifying sulfur-reducing bacteria and methanogen ecology in offshore oxygen minimum zones
Jordan Wingate (Georgia Military College)	Dr. Amy Maas	Swimming kinematics in sea butterflies - Using image tracking software to characterize the 3D swimming of pelagic snails
2017		
Kelly Chimpen MacLeod (Towson University)	Dr. Yvonne Sawall / Dr. Eric Hochberg	Relationships between spectral reflectance and PAM-fluorometer parameters in coral reef photosynthetic organisms
Nadia Cohen (University of North Carolina at Chapel Hill)	Ruth Curry	Investigating the dynamics of phytoplankton production with underwater gliders

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Gabrielle Dodson (Old Dominion University)	Dr. Eric Hochberg	Characterizing diffuse attenuation of coral reef waters.
Aamna Jangda (Indiana University-Purdue University, Indianapolis)	Dr. Mark Guishard	The relationship between sea surface temperatures and Maximum Potential Intensities (MPIs) of hurricanes around Bermuda
Alex Lundberg (University of South Florida)	Dr. Gretchen Goodbody-Gringley / Tim Noyes	Assessing mesophotic fish assemblages using Baited Remote Underwater Video Stations (BRUVs) and <i>in situ</i> visual censuses: A methods comparison
Liah McPherson (University of North Carolina at Chapel Hill)	Dr. Eric Hochberg / Dr. Yvonne Sawall	Examining the relationship between spectral reflectance and light use efficiency of coral reef communities
Emma Strand (Loyola Marymount University)	Dr. Gretchen Goodbody-Gringley	Characterizing Bermuda's baitfish populations to improve management & fishery sustainability
2016		
Joan Bonilla Pagan (University of Puerto Rico)	Dr. Damian Grundle	Attenuation of carbon export in the oligotrophic Sargasso Sea: Linkages to particle source and upper ocean physics
Petra Byl (University of Chicago)	Rachel Parsons	Spatial and temporal patterns of bacterioplankton lineages within the oxygen minimum zone of the Sargasso Sea
Keegan Glennon (University of Rhode Island)	Dr. Gretchen Goodbody-Gringley / Dr. Samantha de Putron	Effects of parental depth on the growth and survival of juvenile corals
Cothran Harris (North Carolina State University)	Dr. Andrew Peters	Using concomitant water isotopes in vapor and precipitation to understand the physical processes governing the formation of precipitation
Katherine Hudson (Northeastern University)	Tim Noyes	Modeling reef fish species distributions
Quinn Montgomery (University of San Diego)	Dr. Rod Johnson / Rachel Parsons / Julia Matheson	Investigating the relationship between phytoplankton and primary production in the Sargasso Sea using new observations of nanoplankton and picoplankton

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Elijah Rodda (Southwestern College)	Dr. Amy Maas / Dr. Leo Blanco Bercial	Zooplankton size class in Bermuda
Justin Waletich (Oregon State University)	Dr. Gretchen Goodbody-Gringley	Taxonomic and molecular identification of an unusual coral ecomorph in the genus <i>Madracis</i> from a mesophotic reef in Bermuda
2015		
Sarah Amiri (University of California, Santa Barbara)	Rachel Parsons	Bacterioplankton community structure in the Sargasso Sea
Lauren Dana (Bryn Mawr College)	Ruth Curry	Combining glider and ship-based observations to improve understanding of Sargasso Sea biogeochemistry
Naomi Huntley (University of Michigan)	Dr. Samantha de Putron	Physiological responses of <i>Siderastrea radians</i> to low temperatures
Shasta Keyes (Universidad Autonoma de Yucatan)	Tim Noyes	Evaluation of species distribution model, Case study: lionfish in Bermuda
Kelvin Santana Rodríguez (Universidad de Puerto Rico At Humacao)	Dr. Amy Maas / Dr. Leocadio Blanco-Bercial	Testing the suitability of Sargasso Sea pteropods for climate change experiments
Hannah Saraceno (University of Oregon)	Dr. Eric Hochberg	The effect of changing temperature on the light use efficiency of a coral community
Jennifer Tuomisto (Bloomsburg University)	Dr. Leo Blanco Bercial	Subtropical calanoid copepods of the Sargasso Sea: experimental suitability and methods
Kayley You Mak (Barnard College)	Dr. Gretchen Goodbody-Gringley	Differential growth and survival of juvenile <i>Porites astreoides</i> based on parental depth
2014		
Amanda Appleson (University of Miami)	Dr. Gretchen Goodbody-Gringley	Population demographics of the invasive lionfish in the Sargasso Sea
Chloe Emerson (Wellesley College)	Dr. Andrea Bodnar / Dr. Helena Reinardy	Mechanisms of tissue regeneration in the Variegated Sea Urchin, <i>Lytechinus variegatus</i>

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April Oliver (California Polytechnic State University)	Natasha McDonald	Characterization of water-soluble organic compounds in the marine boundary layer
Keeley Rideout (Colorado University, Boulder)	Tim Noyes	Characterization of water-soluble organic compounds in the marine boundary layer
Gabriel Schuler (St. Francis University)	Rachel Parsons	Microbes within the shadow zone of the Sargasso Sea
Tessa Syvertsen (University of Florida)	Ruth Curry	The response of the ocean and an AUV to Hurricane Gonzalo
Mia Thomas (St. Lawrence University)	Dr. Samantha de Putron	The effect of environmental variables on spat growth and zooxanthellae density of <i>Porites astreoides</i>
Michael Wooster (University of North Carolina, Wilmington)	Dr. Eric Hochberg	Coral community light-use efficiency under changing environmental conditions
2013		
Amanda Alker (Florida Atlantic University)	Rachel Parsons / Shervon De Leon	Looking at antibiotic resistance in bacteria associated with the Seabright sewage outfall
Kelsey Cowen (Mount Holyoke College)	Ruth Curry	Climate change and the Atlantic Ocean
Ameena El-Bibany (University of California, Davis)	Dr. Andrea Bodnar / Dr. Helena Reinardy	DNA damage and repair in marine echinoderms
Ryan Jones (University of Alabama)	Dr. Eric Hochberg	Reef community light-use efficiency
Esra Mescioglu (University of Massachusetts)	Natasha McDonald	Determination of the effect of microbial activity on the chemical composition of lignin phenols
Derek Schwenkmeyer (University of California, Santa Barbara)	Dr. Helena Reinardy / Dr. Kristen Buck	Genotoxic effects of environmental copper contamination in Bermuda
Harrison Specht (Cornell University)	Dr. Andrew Peters	Bioavailability of petroleum hydrocarbons from weathered oil deposits in Bermuda's littoral zone

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Amy Wong (University of Georgia)	Rachel Parsons	Can corals change the microbial community to select for species that are beneficial for nutrition?
2012		
Paul Bump (University of Hawai'i at Manoa)	Dr. Andrea Bodnar	Molecular profile of stem cells in sea urchin tissues
Thomas Kinsey (Spring Hill College)	Natasha McDonald	Optical characterization of chromophoric dissolved organic matter produced by bacteria in the North Atlantic subtropical gyre
Jeremy Kravitz (California Polytechnic State University)	Dr. Eric Hochberg	Coral light use efficiency of <i>Porites astreoides</i> and <i>Madracis mirabilis</i> in Bermuda
Jennifer Rendon (Old Dominion University)	Dr. Andrew Peters	Analysis of Coprostanol to determine fecal contamination in Bermuda's aquatic environment
Kelly Speare (University of North Carolina - Chapel Hill)	Dr. Gretchen Goodbody-Gringley	Combined effects of sedimentation and temperature on the growth and development of juvenile coral spat
Jennifer Trapani (University of Buffalo)	Rachel Parsons	The microbial response to ocean acidification
2011		
Arielle Anderson (University of Minnesota)	Dr. Andrea Bodnar	Oxidative cellular damage in sea urchin models of aging
Miles Borgen (Western Washington University)	Dr. Andreas Andersson / Dr. Samantha de Putron	Exploring the effects of environmental parameters on coral calcification in Bermuda
Ashley Compaan (University of North Florida)	Dr. Andrew Peters	Polychlorinated biphenyls in seawater
Nick Fylstra (California Polytechnic State University)	Dr. Kristen Buck	Copper toxicity in Castle Harbour
Preston Pallante (Oregon State University)	Rachel Parsons	Spatial distribution of bacterial clades SAR11 and SAR202 in the Sargasso Sea

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Stacey Peltier (Portland State University)	Dr. Eric Hochberg	Influences of light and temperature on coral bio-optics
Dusten Snodgrass (University of North Texas)	Rachel Parsons	Archaeal abundance in the Sargasso Sea and CARD-FISH troubleshooting
Joseph Warren (University of Connecticut)	Natasha McDonald	Lignin phenols in the open ocean
2010		
Eric Dexter (Portland State University)	Dr. Andreas Andersson	Comparison of two methods for assessing coral growth under acidified conditions
Christine Van Duyn (Virginia Polytechnic Institute and State University)	Chloé Newcomb Hodgetts	Investigation into mating and feeding behavioral responses in crabs under decreasing pH regimes
Hillevi Jaegerman (Tufts University)	Dr. Michael Lomas	Inaccuracy in quantifying bacteria-autotroph relationships: A methods-development survey to study diverse phytoplankton cultures
Vanthani Logendran (Oregon State University)	Natasha McDonald	Mapping the origins of CDOM in the North Atlantic subtropical gyre
Samantha Loomis (Eckerd College)	Dr. Andrew Peters	Monitoring sources of PM2.5 in Bermuda during 2005-2009 using HYSPLIT cluster analysis
Melissah Perkins (University of Central Missouri)	Dr. Gerald Plumley	Monitoring petroleum and petroleum products on Bermuda's beach and surrounding waters
Kristen Sims (Texas Woman's University)	Chloé Newcomb Hodgetts	Mating and feeding behavioral responses in crabs at elevated temperature
Janelle Steffen (Indiana University)	Dr. Kristen Buck / Dr. Simon Ussher	Current trace metal fluxes in wet deposition for the BATS region
2009		
Emily Giles Clark (University of Tennessee)	Rachel Parsons	Optimization of CARD-FISH for profiling of archaea
Katy Davis (North Carolina State University)	Dr. Rob Condon	Bacterial metabolism in dark environments: Anchialine caves and the mesopelagic zone

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Sarah Davis (Hawai'i Pacific University)	Dr. Andreas Andersson	Ocean acidification and dissolution of carbonate sediment banks
Nicola Groh (University of New Hampshire)	Natasha McDonald	N/A
Alicia Hendrix (Scripps College)	Dr. Kristen Buck / Dr. Rob Condon	A preliminary investigation of iron and copper complexation by jellyfish-exuded dissolved organic matter using incubation experiments of Sargasso Sea water
Hilary Kates (Cornell University)	Dr. Gerald Plumley / Chloé Newcomb Hodgetts	Algal lipid extraction methods for biodiesel production
Michael Swenson (Gustavus Adolphus College)	Dr. Kristen Buck	Copper speciation and total dissolved Cu in Castle Harbour and other Bermuda waters
Diane Wyse (George Mason University)	Dr. Andrew Peters	Persistent organic pollutants on nurdles and plastic fragments from the littoral zone in Bermuda
2008		
Andrew Collins (University of New Hampshire)	Dr. Samantha de Putron	The effect of a carbonic anhydrase inhibitor on the growth and zooxanthellae content of new recruits of the scleractinian coral <i>Favia fragum</i>
Jessica Dean (Oregon State University)	Dr. Gerald Plumley	Production of biodiesel with algal strains from the Sargasso Sea
Carmen Denman (Oregon State University)	Rachel Parsons	Community based analysis of bacterial, viral, and archaeal diversity and abundance during seasonal stratification in Devil's Hole, Bermuda
Andrew Kledzik (Colorado State University)	Dr. Andreas Andersson	Evolution and break down of the seasonal thermocline in Devil's Hole, Bermuda: Observations of chemical and biogeochemical processes
Dustin Long (Rhodes College)	Dr. Samantha de Putron	The impact of global climate change on the new recruits of the scleractinian coral <i>Porites astreoides</i>
Shannon McGrath (University of Maryland)	Dr. Michael Lomas / Dr. Andreas Andersson	Response of the marine diatom <i>Thalassiosira oceanica</i> to variable pCO ₂

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Melissa Melendez (University of Puerto Rico)	Dr. Andrew Peters / Dr. Andreas Andersson	Estimation of calcium carbonate (CaCO ₃) mineral dissolution and composition in Devil's Hole, Bermuda
2007		
Preetinder Bassi (University of Minnesota)	Dr. Gerald Plumley / Dr. Jeannette Loram	Identifying the saxitoxin genes in cyanobacteria: A bioinformatics approach
Katherine Darling (University of California, Berkeley)	Dr. Andrew Peters / Dr. Maureen Conte	Evaluation of the antioxidant Trolox for preservation of marine samples collected for the ocean flux program
Lara Wharton Gates (College of William and Mary)	Dr. Samantha de Putron	The effect of increasing temperature on the skeletal development of spat
Oriana Korol (Wesleyan University)	Dr. Norm Nelson / Natasha McDonald	Hydrography and chemical composition of chromophoric dissolved organic matter in the Sargasso Sea
Kelly Pennoyer (University of Rhode Island)	Dr. James Wood	Does the Caribbean reef squid, <i>Sepioteuthis sepioidea</i> , use ink as a chemical or visual alarm cue?
Eva Sawyer (Cornell University)	Dr. James Wood	Does the Caribbean reef squid, <i>Sepioteuthis sepioidea</i> , use ink as a chemical or visual alarm cue?
Alicia Shepard (Roger Williams University)	Rachel Parsons / Dr. Craig Carlson / Dr. Ross Jones	The abundance of virus-like particles and bacterioplankton throughout the inshore waters of Bermuda and coral reef ecosystems: monitoring for sewage outfall impacts
John Zablocki (University of Montana)	Dr. Nick Bates / Dr. Andreas Andersson	Biogeochemical regulation of CO ₂ in mangrove dominated coastal environments: another piece of the global carbon flux jigsaw puzzle
2006		
Michelle Brandsrud (University of South Dakota)	Dr. Jeannette Loram / Dr. Gerald Plumley	Genomic analysis of the Saxitoxin- Producing cyanobacterium <i>Anabaena</i> <i>circinalis</i>
Tim Cody (University of California, Santa Barbara)	Dr. Samantha de Putron	Distribution, population dynamics and growth of <i>Siderastrea radians</i> in Bermuda
Camerron Crowder (Evergreen State College)	Dr. Alexander Venn	Isolation and partial sequencing of stress related genes in the coral <i>Montastraea</i> <i>franksi</i>

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Jared Kibele (University of California, Santa Cruz)	Dr. James Wood	The role of visual communication in the alarm response of <i>Sepioteuthis sepioide</i>
Elizabeth Murphy (University of Hawai'i, Hilo)	Dr. Michael Lomas	Quantification and comparison of species-specific marine phytoplankton growth rates by flow cytometric cell cycle analysis
Clay Strong (Butler University)	Dr. Andrew Peters	The feasibility of measuring PCBs in the air of the North Atlantic Ocean
Kendra Swain (University of California, Santa Barbara)	Rachel Parsons / Dr. Craig Carlson	Optimization of oligonucleotide fluorescence in-situ hybridization for marine archaea in the NW Sargasso Sea
Kim Tucker (University of California, Santa Barbara)	Dr. Michael Lomas	Quantification of single-cell alkaline phosphatase by flow cytometry
2005		
Milton Bergson (University of San Francisco)	Dr. Craig Carlson / Dr. Gerald Plumley / Rachel Parsons	The temporal and spatial variability of oceanic microbial community structure upon an organic and inorganic nutrient enrichment in the northwestern Sargasso Sea
Samantha Bragan (Clarkson University)	Dr. Gerald Plumley	Development of a Tn5 mutagenesis strategy for <i>Anabaena circinalis</i> : Genome size determination and nitrogen effects on growth rates and toxin production
John Casey (College of Charleston)	Dr. Michael Lomas	Taxon-specific nitrogen and carbon uptake of marine phytoplankton in the Sargasso Sea
Rachael Heuer (University of Florida)	Dr. Kathryn Coates	Variation in seagrass blade morphology over time and space: Bermuda 1998 to 2005
Julie Hopper (University of California, Santa Barbara)	Dr. Ross Jones	Colony size-frequency distributions of <i>Diploria strigosa</i> and <i>D. labyrinthiformis</i> in Castle Harbour and the outer reefs of Bermuda
Diana Palacios-Lizeth (San Diego Mesa College)	Dr. James Wood	Investigating the anti-predator schooling behavior of the Caribbean reef squid <i>Sepioteuthis sepioidea</i>

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Alina Siu (University of California, Berkeley)	Dr. Andrew Peters	Development of a passive sampler network for monitoring NO ₂ and SO ₂ in Bermuda
Maria Monica Talag (Dowling College)	Dr. Andrea Bodnar	Telomere structure in corals and zooxanthellae during coral bleaching
2004		
Walt Carlson (Tennessee Technological University)	Dr. Michael Lomas	Taxonomic variability in nutrient cell quotas for marine phytoplankton
Victoria Conti (Gordon College)	Dr. Gerald Plumley	<i>Anabaena circinalis</i> : Examining the genome in the search for "saxitoxin genes"
Erin Culpepper (James Madison University)	Dr. Kathryn Coates	Colonization of beach wrack by Enchytraeid oligochaetes
Jason Helyer (University of Rhode Island)	Dr. Ross Jones / Dr. Samantha de Putron/ Dr. Joanna Pitt	Use of short-term growth rates of <i>Porites astreoides</i> in future ecotoxicology experiments
Kristin Henderson (Evergreen State College)	Dr. Hank Trapido-Rosenthal / Dr. Andrea Bodnar	Inducible nitric oxide synthase activity in zooxanthellae
Ashley Maloney (Stanford University)	Dr. Ross Jones / Dr. Samantha de Putron/ Dr. Joanna Pitt	Coral health monitoring
Paul Pawelzik (SUNY College of Environmental Science and Forestry)	Dr. Andrew Peters	Bermuda Groundwater Survey
Suzanne Replinger (Santa Clara University)	Dr. James Wood	An investigation of the use of subcutaneous tagging in the Caribbean Reef Squid, <i>Sepioteuthis sepioidia</i>
2003		
Brian Boeing (SUNY Geneseo)	Dr. Hank Trapido-Rosenthal	Susceptibility of corals to bleaching is correlated with symbiont nitric oxide synthase (NOS) activity
Cassandra Cartwright (Hampshire College)	Dr. Joanna Pitt	Post-injury regeneration of <i>Diploria labyrinthiformis</i> in a stressful environment: Castle Harbour, Bermuda

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Ben Daly (Hobart and William Smith Colleges)	Dr. Michael Lomas	The effects of CO ₂ on marine phytoplankton assemblages and community structure
Tiffany Gregg (Millersville University)	Dr. Andrea Bodnar / Dr. Richard Owen	Telomerase Activity in the Purple Sea Urchin <i>Lytechinus variegatus</i>
Erin Meyer (Rutgers University)	Dr. Kathryn Coates	An Exploration of Gamete Maturity in <i>Cittarium pica</i> (West Indian Topshell) in Bermuda
Joshua Verlinde (University of Hawai'i at Hilo)	Dr. Kathryn Coates / Dr. Hank Trapido- Rosenthal	Molecular diversity of symbiotic dinoflagellates (<i>Symbiodinium spp.</i>) within Alcyonacea of Bermuda
Gwen Woods (Humboldt State University)	Dr. Andrea Bodnar / Dr. Michael Lomas / Dr. Richard Owen	Telomerase activity in marine phytoplankton
2002		
Kimberly Asher (Humboldt State University)	Dr. Joanna Pitt / Dr. Shane Anderson	Assessment of the abundance of fishery target species within Bermuda's marine protected areas and reference areas using a timed swim method
Kristina Evans (Wittenberg University)	Dr. Kathryn Coates	A morphological and molecular investigation of Gorgonians in Bermuda
Sarah Evans (Hobart and William Smith Colleges)	Dr. Richard Owen	Multixenobiotic resistance in <i>Madracis mirabilis</i> , endosymbiotic zooxanthellae and seagrass
Garrett Gregory (Humboldt State University)	Dr. Michael Lomas	Urea cycling in the Sargasso Sea
Magda Gutkowska (Evergreen State College)	Dr. Hank Trapido- Rosenthal	Increases in the activity of zooxanthellae nitric oxide synthase are associated with the temperature-induced bleaching of the coral <i>Madracis mirabilis</i>
Safiya Sawney (Eckerd College)	Dr. Hank Trapido- Rosenthal	Increases in the activity of zooxanthellae nitric oxide synthase are associated with the temperature-induced bleaching of the coral <i>Madracis mirabilis</i>
Ashley Swain (Northeastern University)	Dr. Michael Lomas	Phosphorus limitation in phytoplankton in the western North Atlantic Ocean

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2001		
Jessica Archer (Evergreen State College)	Dr. Hank Trapido-Rosenthal	The role of symbiont-generated nitric oxide (NO) in the bleaching of sea anemones and scleractinian corals
Alex Gagnon (University of California, Berkeley)	Dr. Nick Bates / Dr. Alex Amat	Effects of elevated pCO ₂ on zooxanthellae photosynthesis
Stephanie Jaeger (SUNY Stony Brook)	Dr. Michael Lomas	The flux of DON in both batch cultures of <i>Thalassiora oceanica</i> and in size-fractionated natural planktonic assemblages from the NW Sargasso Sea
Rachelle Jensen (University of California, San Diego)	Dr. Robbie Smith / Dr. Joanna Pitt / Dr. Hank Trapido-Rosenthal	Assessing the relationship between environmental stress and nitric oxide
Corey Lindsay (Wayne State College)	Dr. Hank Trapido-Rosenthal	Triumphs and tragedies: Constructing a cDNA library and cloning the 18S rRNA gene
Natalie Ostrander (Dartmouth College)	Dr. Richard Owen	Antifoulant herbicides Irgarol 1051 and Diuron inhibit photosynthesis in zooxanthellae
Iara Perez-Bonet (University of Puerto Rico)	Dr. Samia Sarkis / Dr. Richard Owen	Lysosomal and nervous response alterations caused by the exposure of the scallop <i>Argopecten gibbus</i> to cadmium
2000		
Holly Biggs (University of Illinois)	Dr. Craig Carlson	Effects of DOM quality on bacterial production of CDOM and bacterial community structure
Kelly Dorgan (University of California, Santa Cruz)	Dr. Kathryn Coates	Trophic structure of a polychaete community in a seagrass bed
Christina Kachulis (University of Missouri)	Dr. Richard Owen	The effect of Irgarol 1051 on coral photosynthesis
Tom Miller (Colgate University)	Dr. Kathryn Coates	Determinants of the patchy distribution of Enchytraeids (Clitellata) on a sandy Bermuda beach

Student and Affiliation	BIOS Advisor	Project
David Nicholson (Stanford University)	Dr. Dennis Hansell	Organic carbon, organic nitrogen and inorganic nitrogen in Bermuda's rainwater and groundwater
Anne Prusak (SUNY Stony Brook)	Dr. Deborah Steinberg	Production of colored dissolved inorganic matter (CDOM) by zooplankton and its possible composition
Brandy Wiegiers (University of Idaho)	Dr. Hank Trapido-Rosenthal	Searching the genome of the zooxanthellae <i>Symbiodinium bermudense</i> for genes "stolen" from prokaryotes
1999		
Amy Apprill (University of San Diego)	Dr. Norm Nelson	Remotely-sensed classification of the Bermuda platform
Amanda Cundiff (University of California, Berkeley)	Dr. Kent Simmons	The effect of groundwater contamination by domestic sewage on dissolved inorganic nitrogen fluxes in a Bermudian mangrove bay
Karl Hess (University of Utah)	Dr. Hank Trapido-Rosenthal	Molecular identification of an unknown species of bacteria living within <i>Chondrilla nuclea</i> , the Chicken-Liver Sponge
Chloe Nella (Johnson County Community College)	Dr. David Malmquist	Saltwater seed germination: An experiment to consider how floating disseminates contributed to Bermuda's endemic and native flora
Rachel Oshrey (California State University, Monterey)	Dr. Robbie Smith	Exploring coral diseases of the soft corals <i>Pseudoptero-gorgia americana</i> , <i>Gorgonia ventalina</i> and their interactions with the encrusting fire coral <i>Millepora alcicornis</i>
Marla Ranaletti (University of California, Santa Cruz)	Dr. Deborah Steinberg	The importance of salps (pelagic tunicates) in the flux of organic material to the deep Sargasso Sea
Debra Sorocco (Boston University)	Dr. Kathryn Coates	A study of the distribution and formation of crystalline structures in marine Tubificidaeidae
Lei Young (Oregon State University)	Dr. Craig Carlson	Response of bacterioplankton community structure and dynamics to varying substrates
1998		
Jenifer Austin (Florida State University)	Dr. Hank Trapido-Rosenthal	Chemical communication between a sea anemone and its endosymbiotic algae

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Maria Calvi (Dartmouth College)	Dr. Deborah Steinberg	The effect of light, lunar phase, and substrate type on emergence of demersal zooplankton
Stuart Goldberg (University of Maine)	Dr. Craig Carlson	Bacterioplankton utilization of zooplankton excretia
Leone McCreary (Columbia University)	Dr. Robbie Smith / Dr. Nick Bates	Short term cycles of CO ₂ in the surface waters of a coral reef ecosystem (Hog Reef Flat, Bermuda)
Casuarina McKinney (Duke University)	Dr. Robbie Smith	A characterization of coral disease and coral bleaching in Bermuda
Anna Neill (University of Richmond)	Dr. Kathryn Coates	A molecular investigation of morphological variation in the coral <i>Pseudoplexaura porosa</i>
Tara Tredennick (Brown University)	Dr. Hank Trapido-Rosenthal	Odorant clearance in the olfactory organ of the spiny lobster, <i>Panulirus argus</i>
John Ubante (University of California, Santa Barbara)	Dr. Norm Nelson	UV light absorption of the water column
1997		
Brad Adams (Duke University)	Dr. David Malmquist	Environmental monitoring in Leamington Cave: Establishing Bermuda's ancient hurricane record
Margaret Boettcher (Brown University)	Dr. Norm Nelson	Color signatures of shallow marine water environments
Jessica Bohonowych (Duke University)	Dr. Deborah Steinberg	Chemical defenses in plankton from the Sargasso Sea
Melanie Gates (Maine Maritime Academy)	Dr. Nick Bates	The role of corals in the carbon dioxide cycle
Lara Hutto (Michigan Technological University)	Dr. Kent Simmons	Assessment of trace metals in the Lovers' Lake area
Nicole Maturen (Vanderbilt University)	Dr. Kathryn Coates	UFOs in marine tubificid worms
Kay Roache (University of Delaware)	Dr. Dennis Hansell	Carbon and nitrogen cycling in Devil's Hole, Harrington Sound

Student and Affiliation	BIOS Advisor	Project
Paola Vallejo (University of Wisconsin, Madison)	Dr. Hank Trapido-Rosenthal	A cell surface taurine receptor in the dinoflagellate alga <i>Symbiodinium bermudense</i>
1996		
Christine Addison (University of Nebraska, Lincoln)	Dr. Döerte Westphalen / Dr. Samia Sarkis	Population dynamics of the calico clam, <i>Macrocallista maculata</i>
Eric Edsinger-Gonzalez (University of Washington)	Dr. Hank Trapido-Rosenthal	RAPD-PCR as a tool in the molecular taxonomy of zooxanthellae
Brandon Falk (University of Washington)	Dr. Kathryn Coates	Marine oligochaetes: The proposed finding of <i>Grania americana</i> and a new species of <i>Grania</i> in Bermuda
David Huang (University of California, Santa Cruz)	Dr. Norm Nelson	Spatial variability in UV absorption properties of zooxanthellae-coral associations
Lauren Interest (Williams College)	Dr. David Malmquist	Comparison of accepted and controversial marine deposits in Bermuda: Implications for the Pleistocene sea-level record
Jenny Lin (Harvard College)	Dr. Deborah Steinberg	Gut-content analysis & gut clearance rates of vertically migrating zooplankton in the Sargasso Sea
Elizabeth Shank (Pennsylvania State University)	Dr. Hank Trapido-Rosenthal	Nitric oxide production by Symbiodinium freshly isolated from <i>Aiptasia pallida</i>
Ann Michelle Stanley (Rhodes College)	Dr. Robbie Smith	Heavy metal concentrations in Castle Harbour corals