



THE SCHOOL
FOR FIELD STUDIES

STUDENT DIRECTED RESEARCH PROJECTS

Titles and Authors

Spring 2017

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Australia: SFS Center for Rainforest Studies

The Centre for Rainforest Studies' Strategic Research Plan addresses the question: *How can the future of the Wet Tropics in a changing world be ensured?*

Principal Investigator: Catherine Pohlman, Ph.D.

Analysis of the variation exhibited in the shrub layer understory within wet sclerophyll. Mindalena Adams. [Austin College]

Calculating carbon in coarse woody debris: Is there a more effective way to calculate the carbon storage in the Wet Tropics? Max Babcock. [University of Redlands]

A preliminary study on herbivory changes across the wet sclerophyll forest in the Atherton Tablelands. Lily Durkee. [University of Maryland/College Park]

Species dominance and compositional shift due to fire in wet sclerophyll vegetation gradients of Far North Queensland. Cameron Futal. [Davidson College]

Functional trait variation along ecotones of wet sclerophyll forest in Far North Queensland. Molly Knoedler. [Williams College]

A multivariate analysis of physiognomic variation across wet sclerophyll forest in the Wet Tropics of Australia. Bruce Martin. [Skidmore College]

An analysis of size class distributions within the wet sclerophyll forest of Far North Queensland. Hannah Medford. [University of North Carolina/Chapel Hill]

Principal Investigator: Justus Kithiia, Ph.D.

Understanding Climate Change Risk Perception in the Wet Tropics through Demographics and Media. Meghan Anderson. [University of Michigan/Dearborn]

Perceptions of Climate Change in the Wet Tropics. Charles Goldston. [Colby College]

An in-depth analysis of how different socio-demographic groups perceive risks to climate change in the Wet Tropics. Samantha Peikes. [Smith College]

A Unique Australian Environment: The Role of the Media in Belief About Climate Change in the Wet Tropics of Far North Queensland. Alitza Shutt. [Grinnell College]

Comparing Age Difference with Level of Awareness About Climate Change. Claire Wisniewski. [Knox College]

Principal Investigator: Sigrid Heise-Pavlov, Ph.D.

Foraging behaviour and food selection learning in juvenile Lumholtz's tree kangaroos (*Dendrolagus lumholtzi*). Shannon Cook. [Mount Holyoke College]

The great descent. Investigating the relationship between climbing training methods and descending abilities in Lumholtz's tree-kangaroo joeys (*Dendrolagus lumholtzi*). Julia Klein. [University of Massachusetts/Amherst]

Revising the SPOT assessment technique to better evaluate habitat use and population density of Lumholtz's Tree-kangaroos (*Dendrolagus lumholtzi*). Madison Kremp. [Bucknell University]

Through thick and thin: the effects of understorey density on the Lumholtz Tree-kangaroo's (*Dendrolagus lumholtzi*) habitat use in the Atherton Tablelands. Grace Lufty. [Pennsylvania State University/State College]

Revegetation and slope stabilisation in the Atherton Tablelands of Queensland, Australia. Michaila Musman. [George Washington University]

Maternal Macropods: An exploration of the temporal development of mother-joeey relationships in Lumholtz's Tree-kangaroo (*Dendrolagus lumholtzi*). Jeremy Pallant. [Allegheny College]

Carbon in the air, carbon everywhere - a cost-benefit analysis of carbon sequestration on the Atherton Tablelands. Sabrina Pond. [Brandeis University]

Bhutan: Center for Himalayan Environment and Development Studies

The long-term strategic research plan is under development, with the central question being: *How can Bhutan secure its culture, biodiversity, and environment in the face of transition?*

Principal Investigator: Riemsara Knapp, Ph.D.

Ecotourism and Traditional Livelihood Interactions in Chorkhortoe Wangchuck Centennial National Park, Bhutan. Erick Andrews. [Franklin University/Switzerland]

Traditional Agricultural Livelihoods and Knowledge Transfer in Nasphel: A Case Study in Wangchuck Centennial National Park, Bhutan. Natasha Baranow. [Williams College]

Rural Happiness: A Case Study of Life Satisfaction in Nasphel, Bhutan. Matthew Bleich. [Hamilton College]

Conservation and Cultural Preservation: Traditional Livelihoods and Protection of Sacred Sites in Choekhortoe, Wangchuck Centennial Park. Ningen Annabel Li. [University of Redlands]

Mobility as Multi-Dimensional: Forest Governance in Wangchuck Centennial National Park and Beyond. Anne Lee Steele. [Columbia University]

Principal Investigator: Peter Hosner, Ph.D.

Seasonal Variation in Bird Diversity, Abundance, and Edge Habitat Usage on UWICER Campus, Bumthang, Bhutan. Emma Greenberg. [Bowdoin College]

Increment Growth Comparison of Blue Pine (*Pinus wallachiana*) and Himalayan Hemlock (*Tsuga dumosa*) in a Temperate Montane Environment. Henry Ortmeyer. [Swarthmore College]

The effect of topography on the abundance, growth, and diversity of shrubs and herbaceous plants in Bumthang, Bhutan. Eleanore Ritter. [Skidmore College]

Principal Investigator: Purna Chhetri, Ph.D.

Human-Wildlife Conflicts in Ugyencholing and Tangsibi and their Correlations to the Surrounding Community Forests. Adair Andre. [Bates College]

Sustainable Environmental Descriptors of Community Forests. Nicholas Dawkins. [Colorado State University/Fort Collins]

Economic Valuation of Siptanzgur and Shambayung Community Forests. Amar Dayal. [Williams College]

Community Forestry Management in Bumthang: Analyzing Challenges and Opportunities. Kanchan Kattel. [Mandajeet Scholar]

The Implications of Community Forests on Wildlife Richness and Abundance. Jasmine Powell. [Saint Michael's College]

Potential of Community Forests in Bumthang for Carbon Sequestration. Anirban Sengupta. [Mandajeet Scholar]

Cambodia: SFS Center for Conservation and Development in the Lower Mekong

The long-term strategic research plan is under development, with the central question being: *How is Cambodia addressing pressing environmental concerns, especially those related to the conservation of biodiversity and the changing dynamics of rural livelihoods that depend on diminishing natural resources?*

Principal Investigator: Megan English, Ph.D.

A Baseline Study of Fish Abundance and Species Richness of the Boeung Chuk Wetland Area in Banteay Srei District. Goma Karki. [Hollins University]

Evaluating Soil Quality within Boeung Chuk Wetland Area, Banteay Srei District. Sandra Plato. [Salisbury University]

Assessment of Water Quality at the Boeung Chuk Freshwater Wetland Area, Banteay Srei District. Victoria Shaw. [Gonzaga University]

Surveying Wildlife Populations and Assessing the Feasibility of a Man-Made Bird Island at Boeung Chuk Wetland Area, Banteay Srei District. Evan Todd. [Iowa State University]

Principal Investigator: Georgina Lloyd, Ph.D.

All Fired Up: Patterns of Community Fire Use and Management in Toul Kralanh, Banteay Srei, and O'monoas Villages in Banteay Srei District Cambodia. Olivia Golden. [Skidmore College]

Community Perceptions of Common Pool Resources: A look at Use, Access, Management, and Ownership of Boeung Chuk Lake and the Surrounding Wetland Area. Chandler Joiner. [Rhodes College]

Rights and Ownership: Sustainable Community Use and Management of Common Pool Resources in Cambodia. Carley Tsiamas. [Amherst College]

Who Manages the Lake?: An Examination of Community Governance at Boeung Chuk Lake using Ostrom's Eight Design Principles for Sustainable CPR Institutions. Marisa Wilson. [Davidson College]

Principal Investigator: Lisa Arensen, Ph.D.

Like Frogs in a Well: Documenting the Oral Histories of Popel and Preah Ang Thom Villages in Jayavarman Norodom National Park. Randall Harlan. [Gustavus Adolphus College]

Oral Histories of a Wetland Area: Documenting Changes in Land Use and Shifts in Cultural Practice around Tropeang Chombak Thom in Banteay Srey District, Siem Reap Province. Michelle Jacoby. [Iowa State University]

Traditional Khmer Medicine and Transmission of Knowledge in Popel, Preah Ang Thom, and Ta Han Villages, Jayavarman Norodom National Park. Jennifer Le. [University of Wisconsin/Madison]

Costa Rica: SFS Center for Sustainable Development Studies

The Center for Sustainable Development Studies' Strategic Research Plan addresses the question: *How can Costa Rica respond to local and global challenges while securing the functionality of its natural and human systems?*

Principal Investigator: Achim Häger, Ph.D.

Tree species composition and soil carbon sequestration in Costa Rican coffee farms. Hannah Corney. [Clark University]

Influence of slope on soil carbon sequestration within Costa Rican coffee farms . Jessica McLaughlin. [Paul Smith's College]

Tree species composition and carbon sequestration in five Costa Rican coffee farms. John Rosano. [Providence College]

Does agroforestry conserve biodiversity? Tree diversity on five coffee farms over time. Kathleen Bowles. [College of the Holy Cross]

Tree functional diversity and soil carbon in Costa Rican coffee agroforestry systems. Daniel Klein. [Brandeis University]

Aboveground carbon sequestration and tree functional diversity in coffee agroforestry systems. Olivia Won. [Wesleyan University]

Relationships between tree species richness and soil carbon sequestration in coffee farms. Jared Mandelbaum. [Hamilton College]

Above ground carbon storage over time in Costa Rica agroforestry coffee farms. Rosemary Nicholson. [Pennsylvania State University/State College]

Principal Investigator: J. Edgardo Arévalo, Ph.D.

Examining the effects of anthropogenic noise disruptions on *Myrmeciza exsul* response ability. Quinn Griffin. [University of Massachusetts/Amherst]

Does road noise interfere with Black-hooded Antshrike acoustic signaling in tropical forests? Margaret Huck. [Lawrence University]

Chestnut-backed Antbird song structure optimized in response to traffic noise pollution. Rachel Green. [Allegheny College]

Diverse spatiotemporal variation of bird species' vocalizations in relation to road proximity. Jesse Bolind. [Pennsylvania State University/State College]

Road ecology: the influence of road noise on tropical bird vocalization rates. Jillian Clinton. [Colby College]

Spectral analysis of *Thamnophilus bridgesi*'s songs in comparison with road proximity. Margaret O'Brien. [Hamilton College]

Traffic noise affects song structure for suboscine species *Formicarius analis*. Owen Ludwig. [Allegheny College]

Vocal adaptation in the Great Tinamou in response to anthropogenic noise. Cristina Medrano. [Brown University]

Principal Investigator: Mary Little, LL.M.

Resident perceptions of climate change responsibility, vulnerability, and agency in Costa Rica. Dylan Guydish. [Tufts University]

Impacts of climate change on artisanal fishermen in Santa Teresa, Costa Rica. Georgia Lawson. [George Washington University]

Perceptions of responsibility and implications for actions in Santa Teresa, Costa Rica. Katherine Linares. [Southern Methodist University]

Local responses to climate change and feedback loops in a tourism community. Kyleigh Richardson. [Texas Tech University]

Future Water Use in Santa Teresa CR: Tourists' and Residents' Responsibility. Letitia Woods. [Furman University]

Community participation and development projects: a look at Santa Teresa, Costa Rica. Nora Demere. [Hamilton College]

Tourist/resident perceived responsibility toward marine zone health in Santa Teresa, Costa Rica. Stephanie Stifert. [Brandeis University]

Perceived Impacts and Causes of Climate Change in Santa Teresa, Costa Rica. Veronica Tischer. [Gonzaga University]

Panama: SFS Center for Tropical Island Biodiversity Studies

The long-term strategic research plan is under development, with the central question being: *What is the status of key island systems, both natural and human, and what are the pressures that threaten the delicate balance of the island system?*

Principal Investigator: Leon Mach, Ph.D.

Putting a Price on Nature: How neoliberal conservation in the form of ecotourism impacts stakeholders in BDT. Emma Baldwin. [Gonzaga University]

The pursuit of responsible ecotourism: analyzing the effectiveness of ecotourism in the Bastimentos Island National Marine Park from the perceptions of various stakeholders. Grant Geisler. [Gonzaga University]

The hunger for tourism: Assessing diet diversity and tourism opportunity within the Isla Bastimentos Marine National Park. Abbie Robinson. [Elon University]

Fisheries Governance in Batimentos Island National Marine Park: A Foucaultian analysis of the augmentation of local routines. Blake Wynveen. [Wake Forest University]

Principal Investigator: Jessica Savage, Ph.D.

Squidpops: Using a Simple Predation Assay to Assess the Efficacy of the Isla Bastimentos National Marine Park. Christopher Curran. [Tufts University]

Rationalizing Pargue Nacional Marino Bastimentos Boundaries via Assessment of Ecosystem Mapping and Health Data. Micaela Grunebaum. [University of Vermont]

The effectiveness of a marine protected area in preventing bleaching and disease in Caribbean coral reefs. Hannah Kowalewski. [Franklin & Marshall College]

Invertebrate Abundance and Structural Complexity Inside and Outside of Marine Protected Areas. Susannah Maher. [Western Washington University]

Assessing Marine Protected Areas Efficacy Based on Corallivorous Impacts on Hard Corals. Mikkel McGowan. [University of Minnesota/Twin Cities]

Damage Control: The effectiveness of the Isla Bastimentos National Marine Park in reducing coral damage caused by snorkelers. Austin Peek. [University of Massachusetts/Amherst]

Marine Protected Areas, a Safe Haven for Commerical Fish Species. Annalise Smith. [Clark University]

Principal Investigator: Leonor Ceballos, Ph.D. candidate

Comparison of Spider Diversity in Protected and Unprotected Mangrove Forests in Bocas del Toro, Panama. Brittin Boenning. [Columbia University]

Insect diversity of protected vs. non-protected mangrove forests in Bocas del Toro archipelago, Panama. Caroline Erb. [Muhlenberg College]

The Aboveground Carbon Sequestration and Storage Capacity of Bocas del Toro's Mangrove Forests. Grace Graham. [Willamette University]

Diversity of Major Epifaunal Groups on Red Mangrove, Rizophora Mangle, Prop Roots in the Bocas Del Toro Archipelago Defined by Ecosystem Use and Island Side. Anna Ramgren. [Davidson College]

Terrestrial Vertebrate Species Richness and Abundance of Mangrove Forests in Bocas del Toro Archipelago, Panama. Miranda Ramos. [Eckerd College]

Fish Diversity, Abundance, Feeding Rates, and Root Density in Mangroves as Indicators of Habitat Health Inside and Outside the Isla Bastimentos National Marine Park. Guido Schutz. [Elon University]

Peru: SFS Center for Amazon Studies

The long-term strategic research plan is under development, with the central question being: *What conditions are necessary for effective conservation and sustainable socioeconomic development in Peru?*

Principal Investigator: Adrian Tejedor, Ph.D.

Population Dynamics of Tree Ferns in the Peruvian Eastern Andes. William Durkin. [Saint Michael's College]

Tree Fern Biomass of Eastern Andean Forests. Shayne Geiger. [Washington State University/Pullman]

Tree Fern Population Size in Southern Peru. Alexander Green. [Boston College]

Antimicrobial activity of tree fern mucilage against fungi. Dashiell Katz. [Landmark College]

Antimicrobial properties of *Cyathea conjugata* and *Cyathea squamipes* against *Staphylococcus*. Theresa Murphy. [Saint Michael's College]

Principal Investigator: Katie MacDonald, Ph.D.

Locations, Causes, and Potential Effects of River Contamination in Pilcopata, Peru. Sean Cloran. [University of Massachusetts/Lowell]

Waste Management Strategies in a Small Amazonian Town: Pilcopata, Peru. Andrew Freed. [Villanova University]

Waste Management System and Needs of the Community in Pilcopata, Peru. Alexandria Keith. [Drew University]

Water Quality and Quantity of Households in Pilcopata, Peru: The Community Perspective. Mira McCoy. [University of Wisconsin/Madison]

Community Solutions in Restoring Water Quality in Pilcopata, Peru. Cassandra Morrison. [Oregon State University]

Evaluation of Community Attitudes Towards Waste Management in Pilcopata, Peru. Madison Workman. [Salisbury University]

Principal Investigator: Will Helenbrook, Ph.D.

***Aotus nigriceps* Role as Seed Dispersers: Interaction of Habitat, Diet, and Germination.** Isabelle Berman. [Reed College]

Gastrointestinal Parasitology of *Aotus Nigriceps*. Katlin Gott. [Hollins University]

Ecological Niche Modeling and Conservation Assessment of Black-headed Night Monkeys (*Aotus nigriceps*). Sheridan Plummer. [University of Vermont]

Black-headed Night Monkeys (*Aotus nigriceps*). Leigh Preston. [Hamilton College]

Monkey (*A. nigriceps*) vocalizations: Madre de Dios, Peru. Caroline Rzucidlo. [Fairfield University]

Ecological Niche Modeling and Conservation Assessment of Black-headed Night Monkeys (*Aotus nigriceps*). Benjamin Sharaf. [University of Massachusetts/Amherst]

Tanzania: SFS Center for Wildlife Management Studies

The Center for Wildlife Management Studies' Strategic Research Plan addresses the question: *How can wildlife conservation and socio-economic conditions be enhanced in a changing socio-ecological system within the Tarangire-Manyara Ecosystem?*

Principal Investigator: Christian Kiffner, Ph.D.

Local Knowledge and Attitudes of Bovine Tuberculosis in Northern Tanzania. Hayley Benson. [University of Maryland/College Park]

Determinant Demographics for Perceived Species-Specific Wildlife Damage in Northern Tanzania. Danielle Betterman. [Lehigh University]

Occupancy modeling of daytime and nighttime herbivore habitat use with camera traps in Lake Manyara National Park, Tanzania. Jackson Brooke. [University of Minnesota/Twin Cities]

Estimating Activity Levels and Temporal Niche Partitioning in Carnivorous Species Using Camera Trap Data in Lake Manyara National Park, Tanzania. Jessica Ciarcia. [Colorado State University/Fort Collins]

Utilizing Camera Traps to Quantify Activity Patterns of Herbivores in Lake Manyara National Park, Tanzania. Kelly Crandall. [Cornell University]

Using camera traps and occupancy models to estimate habitat preferences of large carnivores in Lake Manyara National park. Lauren Gramberg. [University of Massachusetts/Amherst]

Estimating Habitat Usage of Mesopredators in Lake Manyara National Park, Tanzania with Camera Traps and Occupancy Modelling. Claire Gregory. [University of Michigan/Ann Arbor]

Determinants of Knowledge, Attitudes, and Practices of Brucellosis: A KAP study in Northern Tanzania. Elizabeth Hammon. [Clemson University]

Knowledge, Attitudes, and Practices (KAP) of Anthrax in Northern Tanzania. Sue Lynn Hanson. [University of Massachusetts/Amherst]

Differences in knowledge of biodiversity based on demographics and distribution of villages in Northern Tanzanian highlands and lowlands. Emily Ramirez. [Lafayette College]

Feeding site preference and species selection of the red-billed and the yellow-billed oxpecker on ungulates in the Tarangire-Manyara ecosystem, Tanzania. Daniel Schneider. [Muhlenberg College]

Local people's attitudes towards domestic and wild animals in northern Tanzania. Bryan Spizuco. [Rochester Institute of Technology]

Host Species Preferences of Red-Billed Oxpeckers (*Buphagus erythrorhynchus*) and Yellow-Billed Oxpeckers (*Buphagus africanus*) in the Tarangire-Manyara Ecosystem. Alyssa Taylor. [Elizabethtown College/Pennsylvania]

Individual Host Preferences of Red-Billed Oxpeckers Across Ungulate Species in Tarangire-Manyara Ecosystem, Tanzania. Jessica Whitney. [University of Massachusetts/Amherst]

Principal Investigator: John Kioko, Ph.D.

Social Dynamics of Male African Elephants, *Loxodonta africana*, in Northern Tanzania. Jodie Berezin. [University of Massachusetts/Amherst]

Tusklessness in African elephants. Sophie Carpenter. [University of Vermont]

Differing Age Demography of African Elephants (*Loxodonta africana*) in northern. Danae Diaz. [Franklin & Marshall College]

Behavioral Responses of African Elephants (*Loxodonta africana*) Towards Cattle. Balise Ebanietti. [Franklin & Marshall College]

Male-Female Associations in African Elephants, *Loxodonta africana*, in the Tarangire-Manyara Ecosystem. Jacob Johnson. [Miami University/Oxford]

Determinants of elephant (*Loxodonta africana*) groupings in northern Tanzania. Lyndsey Kowalczyk. [Mississippi State University]

Roadkill Composition and Patterns in the Tarangire-Manyara Ecosystem. Elianna Kronisch. [Muhlenberg College]

Implications of group size on African elephant (*Loxodonta africana*). Mila Lesh. [Scripps College]

Factors impacting vigilance in African elephants (*Loxodonta africana*). Cheyenne Letourneau. [University of North Dakota/Grand Forks]

Comparative African Elephant (*Loxodonta Africana*) group sizes across protected areas in Northern Tanzania. Rachel Mikolas. [University of Wisconsin/Madison]

Identifying Elephant (*Loxodonta africana*) Corridors in the Tarangire-Manyara Ecosystem. Tara Quattrone. [Western Washington University]

Roadkill disappearance rates on a major highway in Arusha, Tanzania. Yosvany Rodriguez. [Franklin & Marshall College]

Factors influencing foraging behavior of African elephants (*Loxodonta africana*) in the Tarangire-Manyara ecosystem, Tanzania. Sarah Smith. [Smith College]

African Elephant (*Loxodonta africana*) Activity Patterns in the Tarangire-Manyara Ecosystem, Tanzania. Emily Strahan. [University of Georgia]

Tusk Fracture in African Elephants (*Loxodonta africana*) in Protected Areas in Northern Tanzania. Michelle Zhou. [Austin College]

Principal Investigator: John Mwamhanga, M.S.

Assessing socio-economic influence on rural household climate change adaptation in lake Eyasi communities: Endamagha and Mikocheni villages case study. Mary Chiang. [Franklin & Marshall College]

Local people adaptation to climate change and its effects on gender in lake Eyasi valley in Karatu district, Tanzania. Skyla Foxfoot. [Sierra College]

Analysis of socio-economic factors that enhance climate change adaptive capacity of local people through the use of priority non-timber forest products in the Karatu district, Tanzania. Lukas Jenkins. [Bowdoin College]

Climate change effects on agricultural practices in lake Eyasi valley, Karatu district, Tanzania. Elizabeth McGraw. [University of Minnesota/Twin Cities]

The influence of climate change on livelihood diversification and gender roles in local communities of lake Eyasi valley, Northern Tanzania. Anna Normark. [Reed College]

Examining the role of priority non-timber forest products (PNTFP) for enhancing adaptive capacity to change for local people in Karatu, Tanzania. Emily Wayne. [Rollins College]

Documenting factors that affect the adaptability of rural people to climate change in Karatu district, Northern Tanzania. Susan Zea. [Lehigh University]

Turks & Caicos Islands: SFS Center for Marine Resource Studies

The Center for Marine Resource Studies' Strategic Research Plan addresses the question: *How can The SFS Center for Marine Resource Studies support the government and South Caicos community to best manage the marine environment and resources to balance biodiversity conservation and economic sustainability?*

Principal Investigator: Aaron Henderson, Ph.D.

South Caicos Marine Habitats Abiotic Factors and Shark Habitat Preferences. Olivia Battino. [Fairfield University]

Shark-hook interactions and bait loss on non-commercial drumlines. Arielle Colen-Landy. [Scripps College]

Epibiont coverage and speciation on green, *Chelonia mydas*, and hawksbill, *Eretmochelys imbricata*, turtles in South Caicos. Antoinette Cozier. [Davidson College]

Demographics of *Carcharhinus perezi*, the Caribbean Reef Shark, in the waters off of South Caicos. Treasa Deegan. [Tufts University]

Morphological Characteristics and Distribution of Green (*Chelonia mydas*) Sea Turtles in South Caicos, Turks and Caicos Islands. Shannon Deveney. [Bowdoin College]

The perceived importance of sharks to the dive industry in the Turks and Caicos Islands. Mo Kalmbacher. [Elizabethtown College/Pennsylvania]

A Review of Differing A Review of the Differing Perceptions of Locals, Tourists, and Scuba Divers on the Current Resource State of Sea Turtles in the Caicos Islands. Jacob Pluznik. [University of Wisconsin/Madison]

Size, abundance, and growth of juvenile hawksbill turtles *Eretmochelys imbricata* on South Caicos, Turks and Caicos Islands reefs. Natalie Poremba. [Hamilton College]

Demographics of non-focus species, *Galeocerdo cuvier*, *Carcharhinus acronotus*, *Negaprion brevirostris*, and *Sphyrna mokarran*, in study of shark populations in South Caicos, Turks and Caicos Island. Alexandra Sawyer. [University of Wisconsin/Madison]

Demographics of the nurse shark (*Ginglymostoma cirratum*) in the waters of the eastern Caicos Bank, Turks and Caicos Islands. Sierra Stark. [Swarthmore College]

Principal Investigator: Anna Miller, Ph.D.

Turks and Caicos Rock Iguana, *Cyclura carinata*, habitat use, density, and mapping methods on the surrounding cays of South Caicos, Turks and Caicos Islands, BWI. Tyler Anderson. [Clark University]

Tourist Preferences on Crowding and Development Using a Survey Questionnaire on Three Islands of the Turks and Caicos Islands. Ryan Brown. [Dickinson College]

Environmental Impacts of Tourism: Surveying the Sunscreen Use of Tourists Visiting the Turks and Caicos Islands. Katherine Carey. [Connecticut College]

Evaluating conservation efforts of *Cyclura carinata carinata* on Long Cay, Caicos Bank, Turks and Caicos Islands, in comparison with other cays around South Caicos. Noah Eggers. [Wake Forest University]

Developing Sustainable Tourism on South Caicos: A Look at Motivations to Visit, Positive Experiences, and Current Problems. Taylor May. [Southern Methodist University]

Assessing the utilization of ghost crabs, *Ocyroide quadrata*, as a bioindicator species to evaluate the current environmental status of sandy beaches in the Caribbean Islands: A case study on South Caicos, Turks and Caicos Islands. Kenza Mdarhri-Alaoui. [Smith College]

Assessment of Avian Species Composition and Diversity within the Salinas of South Caicos, Turks and Caicos Islands, West Indies. Hannah Moshay. [Brandeis University]

Tourists' relationship between sense of place and environmental behaviors in the Turks and Caicos Islands of South Caicos, Providenciales, and Grand Turk. Sophie Poukish. [Whitman College]

Ghost Crab (*Ocyroide quadrata*) Burrow Densities and Anthropogenic Impacts on sandy beaches in South Caicos, TCI. Gabriel Rosenbacher. [University of Vermont]

The spatial distribution and abundance of six shorebirds, *Haematopus palliatus* (American Oystercatcher), *Arenaria interpres* (Ruddy Turnstone), *Charadrius semipalmatus* (Semipalmated Plover), *Tringa semipalmata* (Willet) and *Himantopus mexicanus* (Black-necked Stilt) in South Caicos, Turks and Caicos Islands. Kaya Williams. [Colby College]

Principal Investigator: Kathy Lockhart, M.S.

Conch Middens as Artificial Habitats for Marine Invertebrates. Hayden Boettcher. [University of Wisconsin/Madison]

Effectiveness of no-take marine protected areas for the conservation of the endangered Nassau Grouper, *Epinephelus striatus*, at South Caicos, Turks and Caicos Islands. Catalina Burch. [Whitman College]

Trends in the spatial and temporal variation of Hogfish – *Lachnolaimus maximus*, in South Caicos, Turks and Caicos Islands, BWI's. Connor Christoffersen. [Skidmore College]

Species Associations with *Holothuria mexicana* According to Habitat Type off of the South Caicos Coast, Turks and Caicos Islands. Marianna Kneppers. [Elon University]

Assessing biodiversity and abundance of fish utilizing Conch Middens in South Caicos. Christopher Madden. [Davidson College]

Evaluation of queen conch *Lobatus gigas* populations and fisheries from the assessment of conch middens in the Caicos Bank surrounding South Caicos, Turks and Caicos Islands. Breanna Mehling. [Whitman College]

Distribution and relative abundance of sea cucumbers (Echinodermata: *Holothuroidea*) around South Caicos, Turks and Caicos Islands, British West Indies. Kathryn Rawson. [Mount Holyoke College]

Scaridae: A Helpful Indicator on the Effectiveness of the Marine Protected Areas in South Caicos, Turks and Caicos Islands. Nicole Sedran. [Siena College]

Comparison of abundance and size of commercially fished snappers (*Lutjanidae*) inside and outside the Admiral Cockburn Land and Sea National Park in South Caicos, Turks and Caicos Islands. Anna Stefanides. [Whitman College]

Analysis of grain-size preference and body size contractions in the deposit-feeding holothurian, *Holothuria mexicana*, near South Caicos, Turks and Caicos Islands. Cailey Treyz. [SUNY/Stony Brook University]

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