



NAME OF EPISODE	SPEAKER	RECOMMENDED GRADE LEVELS	PRIMARY CONTENT AREAS/FOCI
<i>Aquaponics: The Engineering of It</i>	Dr. Frank Pyrtle III	Grades 9 and up	Aquaponics definition, system designs, sustainability and food production, animals and plants in systems, filtration, system components and engineering considerations, flow rate efficiency, energy balances with water temperature, and educational considerations for aquaponics
<i>Tampa Bay Watch: Environmental Stewardship with Community Impact</i>	Peter Clark	Grades 5 and up	History of Tampa bay over time and environmental impacts (e.g., industrial progression), restoration in Tampa Bay, water quality, seagrasses, scallops, Bay pollutants, role of wetlands, saltmarshes, and mangroves in watersheds, economic value associated with improved environmental conditions, and volunteerism/ community involvement
<i>Wonders of the Galápagos</i>	Dr. Ellen Prager	Grades 2 and up	Galápagos ecology, morphological and behavioral results of isolation, geography, geology, oceanography, hydrology, formation and location of islands, volcanic activity, currents, species spotlights (e.g., birds, sea turtles, marine iguanas, sea lions), and authoring a fiction book
<i>Fragments of Hope: Coral Reef Restoration Through the Eyes of an Environmental Engineer</i>	Maya Trotz, PhD	Middle school and up	Environmental engineering, coral fragmentation, coral reef conservation
<i>Many Happy Returns: Aquaculture for Restoration</i>	Josh Patterson, PhD	High school and up (strongly recommended for those with a basic genetics background and/or interest)	Coral restoration, diadema restoration, bay scallops, techniques and considerations for propagation

NAME OF EPISODE	SPEAKER	RECOMMENDED GRADE LEVELS	PRIMARY CONTENT AREAS/FOCI
<i>Great White Adventure</i>	Rich and Laura Howard	Grades 6 and up	Adventure, ecotourism, great white shark biology and behavior
<i>A Thorny Matter: Invasion of the Indo-Pacific Lionfish in the Western Atlantic</i>	Christopher Stallings, PhD	Grades 10 and up	Lionfish invasion of the Atlantic, ecological impacts of this invasive species, current attempts to manage and eradicate the population
<i>Florida Red Tide: Protecting the Public Health Through Innovation</i>	Tracy Fanara, PhD	Grades 9 and up	Public health, harmful algal blooms, citizen science, environmental engineering
<i>Florida's Wild Weather and Climate</i>	Jennifer Collins, PhD and Charlie Paxton, PhD	Grades 8 and up	Hurricanes, humans impact on climate, weather and seasonal patterns globally and in Florida
<i>The Doctor is In!</i>	Ari Fustukjian, DVM	College and up	Fun, creativity/innovation in veterinary science, preventative care, very visual, aquatic medicine and its challenges
<i>Tides, the Science and Spirit of the Ocean</i>	Jonathan White	Middle School and Up (upper elementary with caution, recommended caregiver pre-review for several factual stories about dangerous tides causing human mortality)	Being an author (career), earth and ocean science (how tides affect day length, types of tides, tidal processes, ocean circulation, etc.), geography, history of tidal tracking, human adaptations to tidal processes (modern and historical), cultural connections with tides (including spiritual), discovery in science, science of resonance - a highlight of this talk appears toward the end, in which musicians demonstrate resonance
<i>Saving the Ocean's Tigers: Shark Conservation at The Florida Aquarium</i>	Kathy Heym, DVM	Grades 10 and up	Florida Aquarium and other facilities' efforts in shark conservation, introduction to sand tigers and their reproductive process, research supporting sand tiger reproduction
<i>Saved by the Sea: Hope, Heartbreak, and Wonder in the Blue World</i>	David Helvarg	Grades 9 and Up	Ocean status, ocean degradation, climate change, comparison of habitats, environmental activism

NAME OF EPISODE	SPEAKER	RECOMMENDED GRADE LEVELS	PRIMARY CONTENT AREAS/FOCI
<i>My Daddy Wears a Different Kind of Suit to Work</i>	Joseph Dituri	Grades 9 and up	Ocean exploration, deep water diving, biodiversity, finding cures and solutions to problems in the oceans
<i>Sailing Toward Sustainability</i>	James Spear	High school and up- could also be for younger students considering maritime school programs	Focus on NAMEPA (N. American Environmental Protection Agency) involvement in shipping, overview of maritime activity around the world, regulations (frequently a result of accidents or incidents- highlighted some of the better known incidents), tools that have been put into place since the 1970s to prevent negative environmental impacts, enhancing maritime safety by moving from reactive to proactive, touched on some of the newer regulations
<i>Leadership Gone Wild</i>	Julie Henry	Middle school and up	Ways to get better connected to the sea and becoming effective leaders to push for change
<i>A Changed Climate</i>	Philip Levy, PhD	Grades 9 and up	Current research work on George Washington and link to climate change, discussion of temperature trends over epochs, history of consumer culture, archaeology of Washington's boyhood home, new look at cherry tree story, models of non-consumerism
<i>Horseshoe Crabs</i>	Jane Brockmann, PhD	Middle school and up	Horseshoe crab history and anatomy, conservation, citizen science
<i>Raising Fish to Protect Lemurs</i>	Charlie Welch	Grades 10 and up	Endemic species of Madagascar and their evolution, Madagascar as a biodiversity hotspot and the need for conservation, Duke Lemur Center-SAVA region conservation projects

NAME OF EPISODE	SPEAKER	RECOMMENDED GRADE LEVELS	PRIMARY CONTENT AREAS/FOCI
<i>The Urban Whale: Science & Conservation of the North Atlantic Right Whale</i>	Jeffrey Fassick, PhD	Grades 10 and up	Entanglement, fishing practices, visual color spectrum of right whales, photoreceptors, genetics, biochemistry, conservation of the North Atlantic Right Whale
<i>Lights: Camera! Scuba Tank!... Action</i>	Rich and Laura Howard	Middle school and up	Photography, underwater photography, ecotourism -encouragement to get outside and grab a camera to look at nature
<i>Dive Into the Story: Ocean Science Fun for All Ages</i>	Ellen Prager, PhD	Grades 8 and up	Underwater adventures, diving stories
<i>One Health Conservation</i>	Mark Flint, PhD	Grades 9 and up	Disease epidemiology, coral disease, sea turtle disease, environmental health, Center for Conservation and The Florida Aquarium, Florida and Australia- similarities and differences
<i>Seafood Watch: An Evening with Monterey Bay Aquarium</i>	Sheila Bowman	Grades 8 and up	Importance of sustainable seafood consumption, global and growing food system, table fish biomass over time (cod and salmon in Atlantic), wild fishing and farming methods, sustainable practices, success stories, how seafood watch app categorizes fisheries
<i>Sea Level Changes in the Southeastern United States: Past, Present, and Future</i>	Don Chambers, PhD	Grades 10 and up (graphs are advanced in nature but very well explained)	Climate models and ocean circulation, research models in sea level mass, sea level rise, hydrology, ice structures in relation to sea level rise, global emissions, future studies in relation to icebergs
<i>The Center for Great Apes: A Living Sanctuary</i>	Patti Ragan	Middle school and up	The mission of the Center for Great Apes through sharing of success stories, illegal pet trade, entertainment business, medical research and long term implications of great apes in those conditions

NAME OF EPISODE	SPEAKER	RECOMMENDED GRADE LEVELS	PRIMARY CONTENT AREAS/FOCI
<i>Spinal Deformities in Captive Sand Tiger Sharks: What Have we Learned?</i>	Dan Huber, PhD	Grades 10 and up	Sand tigers in human care, spinal deformity, swimming patterns, comparative anatomy, factors that increase likelihood of developing deformity
<i>In Pursuit of Giants: One Man's Global Search for the Last of the Great Fish</i>	Matt Rigney	Grades 10 and up	Different unsustainable fishing methods and their effects on fish populations world-wide, sustainable versus unsustainable fishing practices, large fish population decline, Swordfish and Bluefin tuna fishing, connections with those that have seen the changes in fish population over the years
<i>Cephalopods of the Wider Caribbean: What Has Been Discovered</i>	Heather Judkins, PhD	Grades 7 and up	Cephalopod anatomy and behaviors, cephalopod distribution research in the Caribbean, sperm whale diet survey, deep sea research, different kinds of "giant" squid
<i>Dissolving Before our Eyes: Ocean Acidification and why it Matters to Floridians</i>	David Hastings, PhD	Advanced- college and up	chemical and physical oceanography, sea level change, impacts of water quality degradation, coral reef conservation
<i>Microbes and Corals: A Delicate Symbiosis</i>	Kim Ritchie, PhD	College and up	coral biology, microbiology
<i>Big Sharks...Little Sharks... No Sharks?</i>	Robert Hueter, PhD	Middle school and up	Sharks found around Tampa Bay and Mexico, tagging info and data collection, great footage of whale sharks
<i>Dolphin Family Values</i>	Randy Wells, PhD	Grades 7 and up	Bottlenose dolphin population dynamics in Sarasota Bay (identification, seasonal ranges, life history, communication, breeding success/process, predators, human interactions), brief overview of population dynamics in other dolphin species

NAME OF EPISODE	SPEAKER	RECOMMENDED GRADE LEVELS	PRIMARY CONTENT AREAS/FOCI
<i>Undersea Adventures: Living Beneath the Waves</i>	Ellen Prager, PhD	Grades 8 and up	What it's like to live underwater while doing research
<i>Swallow-tailed Kite Migration: 5000 Miles of Conservation Concerns in a Changing World</i>	Kenneth Meyer, PhD	Middle school and up	Environmental research, migration patterns and conservation status, impacts of current societal decisions on conservation efforts (overall status as well as specific to Florida)
<i>Emerging Diseases in Marine Mammals</i>	Greg Bossart, PhD	College and up (some graphic content/images)	High level discussion of various diseases, with detail about specific ones (advanced terminology), environmental factors that could play a role in diseases, importance of information about pathology in marine mammals as compared with human pathology