OCEAN EXPERT EXCHANGE EDUCATOR RESOURCES

TOPIC – ***Stony Coral Tissue Loss Disease (SCTLD) in the Caribbean***

FEATURED EXPERT – ***Dr. Valeria Pizarro of Perry Institute for Marine Science***

RELATED LEARNING STANDARDS

OCEAN LITERACY PRINCIPLES - Principle #5: The ocean supports a great diversity of life and ecosystems.
Principle #6: The ocean and humans are inextricably interconnected.

NEXT GENERATION SUNSHINE STATE STANDARDS -

SC.4.L.17.4: Recognize ways plants and animals, including humans, can impact the environment.

SC.5.L.17.1: Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.

SC.6.N.1.5: Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.

SC.7.N.1.5: Describe the methods used in the pursuit of a scientific explanation as seen in different fields of science such as biology, geology, and physics.

SC.7.L.17.3: Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

SC.8.N.4.2: Explain how political, social, and economic concerns can affect science, and vice versa.

SC.912.N.1.1: Define a problem based on a specific body of knowledge; pose questions, conduct systematic observations, examine books and other sources of information to see what is already known…

SC.912.L.17.4: Describe changes in ecosystems resulting from seasonal variations, climate change and succession.

SC.912.L.17.8: Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species.

SC.912.L.17.17: Assess the effectiveness of innovative methods of protecting the environment.

SUPPLEMENTAL RESOURCES

- Reading - ANGARI Foundation Meet Valeria Pizarro (Grades 5-12)
- Resource Library - Perry Institute for Marine Science Stony Coral Tissue Loss Disease (Grades 6-12)
- Resource Library - MPAConnect Stony Coral Tissue Loss Disease (Grades 6-12)
- Resource Library - AGRRA Coral Disease Outbreak (Grades 6-12)
- Resource Library - NOAA FKNMS Florida's Coral Reef Disease Outbreak: Disease (Grades 4-12)
- Video Short - ANGARI Foundation & PIMS Stony Coral Tissue Loss Disease in The Bahamas (Grades 4-12)
- Reading - Frontiers for Young Minds How Can Studying Mucus Protect Coral Reefs? (Grades 4-10)
- Reading - NOAA National Ocean Service Coral Diseases (Grades 7-12)
- Reading - NOAA NMS NOAA & partners combat devastating coral disease & plan for restoration (Grades 6-12)
- Reading - FL DEP Intervention & fate tracking for corals affected by SCTLD in N. FL Reef Tract (Grades 10-12)
- Lessons - Southeast Florida Coral Reef Initiative Florida's Coral Reef Lessons and Activities (Grades K-12)
- Lesson - California State University, Northridge A Lesson Plan in Coral Reef Ecology (Grades 9-12)
- Publication - Frontiers for Young Minds …Underwater Pandemic is Wiping Out Caribbean Corals (Grades 5-10)
- Publication - Frontiers in Marine Science Spatial and Temporal Patterns of Stony Coral Tissue Loss Disease Outbreaks in The Bahamas (Grades 10-12)
- Publication - Frontiers in Marine Science The Emergence and Initial Impact of Stony Coral Tissue Loss Disease (SCTLD) in the United States Virgin Islands (Grades 10-12)