OCEAN EXPERT EXCHANGE EDUCATOR RESOURCES

TOPIC – ***Sawfish Research & Conservation***

FEATURED EXPERT – ***Dr. Dean Grubbs of Florida State University***

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.N.1.3: Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.
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.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.4.1: Explain that science is one of the processes that can be used to inform decision making at the community, state, national, and international levels.
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.N.1.7: Recognize the role of creativity in constructing scientific questions, methods and explanations.
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.17.20: Predict the impact of individuals on environmental systems and examine how human lifestyles affect sustainability.

SUPPLEMENTAL RESOURCES

- Video Short – NOAA Fisheries Protecting the Smalltooth Sawfish (Grades 5-12)
- Video Short – NOAA Ocean Today Smalltooth Sawfish (Grades 4-12)
- Video Short – Discovery Canada The Life of a Sawfish: Daily Planet (Grades 4-12)
- Documentary – ChangingSeasTV Saving Sawfish Episode (Grades 6-12)
- Video – Terramar Smalltooth Sawfish 20 Years of Recovery (Grades 6-12)
- Video Short – Daily Planet The First Wild Birth of a Smalltooth Sawfish Ever Recorded (Grades 5-12)
- Reading – NOAA Fisheries Smalltooth Sawfish and Climate Change: Impacts of Habitat Loss… (Grades 7-12)
- Reading – Florida Fish and Wildlife Conservation Commission Cultural Importance of Sawfish (Grades 6-12)
- Reading – IUCN Shark Specialist Group Sawfish: A Global Strategy for Conservation (Grades 8-12)
- Resource Library – Sawfish Conservation Society Play and Learn about Sawfish (Grades K-12)
- Resource Library – Sharks and Rays of Australia Sawfish Outreach Concepts & Outreach Materials (Grades K-12)
- Resource Library – Florida Museum Sawfish Conservation & Research & Outreach & Education (Grades 4-12)
- Resource Library – NOAA Fisheries Species Directory: Smalltooth Sawfish (Grades 6-12)