OCEAN EXPERT EXCHANGE EDUCATOR RESOURCES

TOPIC – ***Establishing & Managing Marine Protected Areas***

FEATURED EXPERT – ***Lindy Clyde Knowles***

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.6.N.2.3: Recognize that scientists who make contributions to scientific knowledge come from all kinds of backgrounds and possess varied talents, interests, and goods.
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.7.N.1.5: Describe the methods used in the pursuit of a scientific explanation as seen in different fields…
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.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 & 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.
SC.912.L.17.18: Describe how human population size and resource use relate to environmental quality.
SC.912.L.17.20: Predict the impact of individuals on environmental systems and examine how human lifestyles…

SUPPLEMENTAL RESOURCES

- Reading – ANGARI Foundation Meet The Scientist: Lindy Knowles (Grades 6-12)
- Reading – Rotary Why Rotary is committed to mangroves (Grades 6-12)
- Reading – The Nature Conservancy Marine Managed Areas in The Bahamas (Grades 8-12)
- Reading – Frontiers for Young Minds Our Blue Planet: Connecting Humans and the Ocean (Grades 5-9)
- Reading – Frontiers for Young Minds Marine Protected Areas: A Way to Protect Our Oceans (Grades 6-12)
- Reading – National Geographic The Importance of Marine Protected Areas (MPAs) (Grades 9-12)
- Reading – AAAS Science & Diplomacy Marine Protected Area Diplomacy with the Caribbean (Grades 8-12)
- Resource Library – USDOC/NOAA/USDOI National Marine Protected Areas Center (Grades 6-12)
- Resource Library – NOAA National Marine Sanctuaries Marine Protected Areas (Grades 8-12)
- Resource Library – Marine Protected Area Collaborative Network Kids Education (Grades K-9)
- Lesson – National Geographic Marine Ecology, Human Impacts, & Conservation (Grades 6-12)
- Lesson – National Geographic Marine Protected Areas Exploration (Grades 9-12)
- Lesson – NOAA National Marine Sanctuaries Exploring National Marine Sanctuaries (Grades 5-12)
- Lesson – NOAA CORIS Marine Protected Areas Lesson Plan – Protect This! (Grades 9-12)
- Lesson – NOAA OE&R From Pulley Ridge to the Florida Keys Expedition | Everyone Wins! (Grades 9-12)
- Curriculum – California Marine Protected Areas MPA Toolkit Unit 1 (Grades K-2)
- Curriculum – Santa Barbara Channelkeeper Seafari – Marine Conservation Education (Grades 4-6)
- Curriculum – WILDCOAST Marine Protected Area (MPA) Lesson Plans (Grades 6-8)
- Curriculum – Carleton College SERC | InTeGrate Oceans in Protection: Marine Protected Areas (Grades 8-12)