

OCEAN EXPERT EXCHANGE EDUCATOR RESOURCES

TOPIC - *Billfish Conservation*

FEATURED EXPERT - *Peter Chaibongsai of The Billfish Foundation*

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.7.N.1.3: Distinguish between an experiment and other forms of scientific investigation and explain that not all scientific knowledge is derived from experimentation.

SC.8.N.1.6: Understand that scientific investigations involve the collection of relevant empirical evidence, the use of logical reasoning, and the application of imagination in devising hypotheses, predictions...

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.L.12.1: Discuss the characteristics of populations, such as number of individuals, age structure, density, and pattern of distribution.

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

- Infographic - PBS [All About Billfish: A Practical Guide to Predatory Fish](#) (Grades 2-12)
- Resource Library - The Billfish Foundation [Kid's Corner | Sailfish & Spearfish Magazines](#) (Grades K-12)
- Video Short - Animal Fact Files [Marlin Facts: Also Swordfish Facts](#) (Grades K-12)
- Video Short - BBC Earth [Planet Earth | Sailfish are Master Hunters](#) (Grades K-12)
- Video Short - BlueWorldTV [Jonathan Bird's Blue World | Sailfish!](#) (Grades K-12)
- Video Short - The Billfish Foundation [Who We Are](#) (Grades 4-12)
- Documentary - South Florida PBS [ChangingSeasTV | Billfish: Battle on the Line?](#) (Middle-High School)
- Video Short - The Billfish Foundation [5 Ways to Increase Post-Release Survival of Billfish](#) (Grades 4-12)
- Lesson - NOAA National Marine Sanctuaries [Game of Life](#) (Grades 6-8)
- Resource Library - PBS [Marine Fisheries & Aquaculture Series | For Educators](#) (Middle-High School)
- Resource Library - Carleton College SERC [EarthLabs | Fisheries Unit](#) (Middle-High School)
- Reference - NOAA Fisheries [Recreational Fishing & Recreational Fishing Data](#) (Middle-High School)
- Readings - The Billfish Foundation [Research News and Reports](#) (Highschool)
- Readings - The International Game Fish Association [Caribbean Billfish Project](#) (Highschool)
- Reference - Monterey Bay Aquarium [Seafood Watch](#) (Middle-High School)