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## **NOAA SEA Evaluation**

### **Introduction/Contextual information**

The National Oceanic and Atmospheric Administration's Sea Earth Atmosphere (NOAA SEA) curricular resource materials were created for 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> grade educators. This suite of resources includes hands-on activities and innovative technologies to engage students and teachers. NOAA would like the opportunity to improve these resource materials to better serve the education community. This survey will assist NOAA in determining where to begin realigning the materials to either the Common Core or Next Generation Science Standards (NGSS) in addition to what types of products and services should be offered to educators. Your participation in this survey is completely voluntary. The survey will take approximately 15 minutes to complete.

- Required date for responses

For questions and/or interest in the results of this survey, please contact **John Mitchell** by email [John.K.Mitchell@noaa.gov](mailto:John.K.Mitchell@noaa.gov) or by phone (808) 725-5284.

## Usage

**1. Have you used NOAA Sea Earth Atmosphere (SEA) Education Resources?**

- a. yes
- b. no

**2. If no, please state why (please check all that apply):**

- a. Access to other materials that are easier to use
- b. Administrator decides which materials are used
- c. Not aligned with Common Core standards
- d. Not aligned with Next Generation Science Standards
- e. Other (please specify): \_\_\_\_\_

***If NO, please skip to Demographic Section.***

***If YES, please continue:***

**3. How do you primarily access the NOAA SEA curricula?**

- a. Printed materials
- b. DVD
- c. online (please specify device, for example desktop, tablet, phone)

**4. Do you teach one or more entire units, or use individual lessons?**

- a. *entire* units
- b. individual lessons (skip # 5-7 and go to # 8)
- c. both

**If you selected entire units:**

**5. Please locate the grade and select the unit(s) that you use regularly. Please check all that apply.**

**GRADE 3 UNITS**

- a. Unit 1: Shoreline Habitats
- b. Unit 2: Open Ocean Habitats
- c. Unit 3: Coral Reef Habitats
- d. Unit 4: Navigating the Water Cycle
- e. Unit 5: Humpback Whales 101
- f. Unit 6: Predicting & Tracking Hurricanes

**GRADE 4 UNITS**

- a. Unit 1: Island Formations
- b. Unit 2: Weather and Wave Patterns
- c. Unit 3: Aquatic Food Chains
- d. Unit 4: Life and Times of the Humpback Whale
- e. Unit 5: Threatened and Endangered Species
- f. Unit 6: Beach Detectives
- g. Unit 7: Marine Protected Areas
- h. Unit 8: Ocean Geography and Geology

**GRADE 5 UNITS**

- a. Unit 1: The Wonderful World of Corals
- b. Unit 2: Life in a Wetland
- c. Unit 3: Climate Change
- d. Unit 4: Land Beneath the Sea
- e. Unit 5: Living Resources of the Ocean
- f. Unit 6: Life in the Open Ocean

**If you selected individual lessons:**

6. Please locate the grade and specify the lessons that you use regularly

**Grade 3 Unit 1: Shoreline Habitats**

- a. Lesson 1: Hawaii's Shoreline Habitats
- b. Lesson 2: Awesome Adaptations
- c. Lesson 3: Creature Feature
- d. Lesson 4: Guess Who?
- e. Lesson 5: Shorelines in Trouble
- f. Lesson C: My Shoreline Habitat Report

**Grade 3 Unit 2: Open Ocean Habitats**

- a. Lesson 1: Ocean All Around
- b. Lesson 2: Creature Features
- c. Lesson 3: Dare to Compare
- d. Lesson C: Eat or Be Eaten!

**Grade 3 Unit 3: Coral Reef Habitats**

- a. Lesson 1: An Introduction to the Coral Reef Habitat
- b. Lesson 2: Coral Structure and Function

- c. Lesson 3: Human Impact on the Coral Reef
- d. Lesson C: Protecting Our Coral Reefs

**Grade 3 Unit 4: Navigating the Water Cycle**

- a. Lesson 1: Water in My Life
- b. Lesson 2: The Cycle of Water
- c. Lesson 3: Close Relations: Weather, Climate, & Water
- d. Lesson 4: We Are Responsible Water Users!
- e. Lesson C: A Water Conference

**Grade 3 Unit 5: Humpback Whales 101**

- a. Lesson 1: Anatomy of a Humpback Whale
- b. Lesson 2: Whale Feast Discovery Lab
- c. Lesson 3: Humpback Whale Behaviors
- d. Lesson 4: Be a Whale Researcher

**Grade 3 Unit 6: Predicting & Tracking Hurricanes**

- a. Lesson 1: Hurricane Awareness
- b. Lesson 2: Hurricane Formation
- c. Lesson 3: Who's Watching for You?
- d. Lesson 4: Hurricane Preparedness
- e. Lesson 5: Hurricane Warning
- f. Lesson C: Taking Action

**Grade 4 Unit 1: Island Formations**

- a. Lesson 1: Where in the World Do I Live?
- b. Lesson L2: Patterns in the Hawaiian Islands
- c. Lesson 3: How Did the Island Chain Form?
- d. Lesson 4: Changing Islands
- e. Lesson C: The Formation of the Hawaiian Archipelago

**Grade 4 Unit 2: Weather and Wave Patterns**

- a. Lesson 1: Why Do We Want to Know?
- b. Optional: Extension Lesson
- c. Lesson 2: How Do We Make Predictions?
- d. Lesson 3: Waves
- e. Lesson 4: Extreme Forecasting
- f. Lesson C: Weather Safety Campaign

**Grade 4 Unit 3: Aquatic Food Chains**

- a. Lesson 1: Searching for Clues in Cells
- b. Lesson 2: Food Chains and Food Webs in an Ecosystem
- c. Lesson 3: Ecosystem in a Bottle
- d. Lesson 4: Taking a Closer Look at Seaweeds
- e. Lesson C: Mariculture and Aquaculture

**Grade 4 Unit 4: Life and Times of the Humpback Whale**

- a. Lesson 1: Where did the Humpback Whales Come From?
- b. Lesson 2: A Humpback Whale's World
- c. Lesson 3: Harmonizing with Humpbacks
- d. Lesson C: The Life Cycle of Humpback Whales

**Grade 4 Unit 5: Threatened and Endangered Species**

- a. Lesson 1: Are These Animals Threatened, Endangered or Extinct?
- b. Lesson 2: Taking a Closer look
- c. Lesson 3: Changes in Environmental Conditions
- d. Lesson 4: Guess Who?
- e. Lesson C: Species in Jeopardy!
- f. Lesson C Extension: A Public Service Announcement

**Grade 4 Unit 6: Beach Detectives**

- a. Lesson 1: Beach Habitats "Scene of the Crime"
- b. Lesson 2: Hawaiian Beach Sands "Crime Scene Bio"
- c. Lesson 3: Pollution "The Suspect"
- d. Lesson 4: Life at the Beach "Examining the Crime Scene"
- e. Lesson 5: Trash Hounds "Crime Scene Conclusions"
- f. Lesson C: Crime Scene Report

**Grade 4 Unit 7: Marine Protected Areas**

- a. Lesson 1: What Makes a Healthy Marine Ecosystem?
- b. Lesson 2: In What Ways Do Humans Impact Marine Ecosystems?
- c. Lesson 3: What is a Marine Protected Area?
- d. Lesson 4: Marine Protected Areas All Over....
- e. Lesson C: Creating a Marine Protected Area

**Grade 4 Unit 8: Ocean Geography and Geology**

- a. Lesson 1: A Watery World
- b. Lesson 2: Into the Deep

- c. Lesson 3: A Moving Crust
- d. Lesson C: Ocean Floor Geology

**Grade 5 Unit 1: The Wonderful World of Corals**

- a. Lesson 1: Living Spaces of the Coral Reef Habitat
- b. Lesson 2: Everybody has a Role in a Coral Reef
- c. Lesson 3: Hungry Reef Fish
- d. Lesson 4: Invertebrates on the Reef
- e. Lesson 5: Vertebrates on the Reef
- f. Lesson C: Coral Reef Ecosystems

**Grade 5 Unit 2: Life in a Wetland**

- a. Lesson 1: The Wetland Ecosystems
- b. Lesson 2: Nature's Water Filter
- c. Lesson 3: Are Hawaii's Wetlands Changing?
- d. Lesson C: Wetland Investigators

**Grade 5 Unit 3: Climate Change**

- a. Lesson 1: Describing Hawaii's Weather and Climate
- b. Lesson 2: How Can We Predict Weather with Technology?
- c. Lesson 3: Climate of Our Past
- d. Lesson 4: Impacts of Climate Change

**Grade 5 Unit 4: Land Beneath the Sea**

- a. Lesson 1: The Earth is Cracking Up
- b. Lesson 2: Mountains, Valleys, and Plains, Oh My!
- c. Lesson 3: Seafloor Profiling
- d. Lesson 4: Multibeam Mapping

**Grade 5 Unit 5: Living Resources of the Ocean**

- a. Lesson 1: Marine Food Chains and Webs
- b. Lesson 2: An Ocean of Energy
- c. Lesson 3: Seafood and Human Health
- d. Lesson 4: Sustaining Our Ocean Resources

**Grade 5 Unit 6: Life in the Open Ocean**

- a. Lesson 1: Where in the World is the Open Ocean?
- b. Lesson 2: Sharks-Top Predators of the Open Ocean
- c. Lesson 3: What's Missing from this Picture?
- d. Lesson 4: Marine Snow

- e. Lesson C: Matter Cycles and Energy Flow in the Open Ocean
5. If the curricula were revised in the future, is there anything you would like us to be sure to:
- a. Keep? \_\_\_\_\_
  - b. Delete? \_\_\_\_\_
  - c. Add? \_\_\_\_\_
  - d. Modify? \_\_\_\_\_
6. What would increase your usage of the SEA curriculum?
- \_\_\_\_\_
7. What is your limitation (if any) to using SEA curriculum?
- \_\_\_\_\_
8. Other comments, suggestions, and/or ideas on NOAA SEA resources?
- \_\_\_\_\_

### Demographic information

1. Which of the following best describes your institution? (Check one.)
- a. Public school (optional) \_\_\_\_\_
  - b. Charter school (optional) \_\_\_\_\_
  - c. Private school (optional) \_\_\_\_\_
  - d. Home school
  - e. NGO/Non-Profit (please specify) \_\_\_\_\_
  - f. Federal Government - NOAA (including contractors)
    - NOAA Line Office \_\_\_\_\_
    - Program Office \_\_\_\_\_
  - g. Federal Government – Non-NOAA (including contractors)
    - Federal Agency Name \_\_\_\_\_
  - h. Other (please specify) \_\_\_\_\_
2. Which of the following best describes your role?
- a. formal educator

- b. nonformal educator
  - c. pre-service educator
- 3. How many years have you been teaching?**
- a. 0-2
  - b. 3-5
  - c. over 5 years
- 4. Which grade level do you teach?**
- a. K-2
  - b. 3-5
  - c. 6-8
- 5. Where do you do all or most of your teaching?**
- a. Island of Hawaii
  - b. Kauai
  - c. Kahoolawe
  - d. Lanai
  - e. Maui
  - f. Molokai
  - g. Oahu
  - h. Other
- 6. Who determines which curricular resource you will be able to use in the classroom?**
- a. I do
  - b. Principal
  - c. Other: \_\_\_\_\_
- 7. Did you attend a NOAA SEA Teacher Workshop?**
- a. yes
  - b. no (skip question 8)
- 8. If yes, which of the two formats did you attend?**
- a. Format A - ½ day workshop
  - b. Format B - 1 day workshop with field experience plus two hour long webinars, delivery of 2 lessons in the classroom, and creation of a portfolio for Professional Development credits.



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***Thanks for taking this survey!***