Marine Life
Life in the ocean is amazing! Cute and cuddly, creepy crawly, gigantic and microscopic - marine life comes in millions of shapes and size.

Coral Spawning
Horseshoe Crab Spawning - A Field Report
Bioluminescent Ocean

Bioluminescence
Endangered Ocean: Smalltooth Sawfish
Endangered Ocean: Manatees
Fix the Ocean
The health of the ocean is in danger. Conservation planning and restoration projects are making a difference.
Research

Questions and answers about how we study the ocean and what we've learned.

- Climate Alive: 2019 Second Warmest on Record
- Old Weather
- Mapping Goes Micro
- Life at Sea
- Observing El Niño
- El Niño and La Niña Explained
OCEAN TODAY
FULL MOON
WATCH PARTY!

THURSDAY
May 7, 2PM Eastern

Deep Ocean Exploration
with Debi Blaney and Amanda Netburn
OCEAN TODAY
EVERY FULL MOON

Deep Sea Dive
Remotely Operated Vehicles (ROVs) are insight for undersea solutions. Watch several videos and learn about biodiversity in the deep sea. Watch the videos from this collection to learn more about how NOAA scientists are exploring Earth's last great frontier, and find out how to watch a deep sea expedition live.

MORE COLLECTIONS
DEEP SEA DIVES

2019 DEEP DIVE GREATEST HITS
LET'S GET STARTED (PART 1)
DEEP SEA DIVE (PART 2)
MYSTERIES OF THE MOUNTAIN (PART 3)
RING OF FIRE (PART 4)
LIFE ON A VENT (PART 5)
LAKES IN AN OCEAN (PART 6)
The Deepest Volcano: Pacific Ocean (Bonus 1)

NOAA
National Oceanic and Atmospheric Administration
Debi Blaney
Outreach & Education Coordinator, NOAA's Office of Ocean Exploration
OceanExplorer.NOAA.gov

Join Us April 29 at 10 am EDT: Dive Rebroadcast: Mountains in the Deep

This dive wasesting for biology, and in terms of abundance and diversity of life. While mapping up the ridge, at each new depth ridge, we encountered a new high-density community. Don’t miss it as we replay this spectacular dive.
Ocean Exploration Education Resources

Education Themes

These education theme pages are designed to provide the best of what the OceanExplorer.NOAA.gov website has to offer on a number of popular ocean science topics. Each theme page provides links to content essays, lessons, multimedia interactive activities, career profiles, and information on associated past expeditions.

- Archaeology
- The Arctic
- Bioluminescence
- Cold Seeps
- Deep-sea Canyons
- Deep-sea Corals
- Megaphotic Corals
- Seamounts
- Vents and Volcanoes
A Hydrothermal AdVENTure

Students create a model of a hydrothermal vent.

Focus
Hydrothermal vents

Grade Level
5-6 (Physical Science)

Focus Question
What causes hydrothermal vents to form?

Learning Objectives
- Students will be able to describe the overall structure of hydrothermal vents.
- Students will be able to explain the relationship between hydrothermal vents and the motion of tectonic plates.
- Students will create a model of a hydrothermal vent.

Materials
☐ (Optional) Materials for demonstrating hydrothermal circulation; see Learning Procedure, Step 4
☐ (Optional) Materials for modeling hydrothermal vents; poster materials, colored markers, modeling clay

Audio-Visual Materials
☐ (Optional) Video or computer projection equipment; see Learning Procedure Step 1

Teaching Time
One or two 45-minute class periods

Seating Arrangement
Classroom style

Maximum Number of Students
30

Key Words
Hydrothermal vent
Magma
Mantle
Tectonic plate
Follow Along and Stay Connected