

Bring Your Daughters and Sons to Work Day 2013

Workshops for 10 – 12 Year olds

RED Track

Office: NCCOS

Title: Game of Life – Narwhal Edition!

Learn about the weird and wonderful Narwhal, legends from its past, the tooth trade, changing life in the far North and issues that affect both the environment and the Narwhal's survival. Win at the game of life!

Office: OMAO

Title: Adventures with the NOAA Corps

What's it like to command a ship, or fly an airplane through a hurricane or over rugged mountains and coastal waters? Did you know NOAA has its own commissioned service, similar to the military? Some officers are ship captains and airplane pilots, and they live for adventure!

Participants in this workshop will learn about NOAA Corps officers and their experiences at sea and in the skies. See how fast you can get into a survival suit used aboard NOAA ships and planes--it could save your life someday!

Office: NCCOS CCMA

Title: Coral Reef Ecology

Coral reefs are some of the most biologically rich and economically valuable ecosystems on Earth. They provide food, jobs, income, and ecological protection to billions of people worldwide. Yet they are threatened by over use, pollution, habitat loss, invasive species, diseases, bleaching and global climate change. NOAA's Coral Reef ecologists are working to help protect these fragile ecosystems.

Participants will find out what it's like to be a coral reef ecologist. They will see how NOAA scientists measure biodiversity and how scientists explore the ocean to get important ecological information. Participants will get to experiment with tools used in data collection, learn about how fish and divers float and swim, discover what makes fish unique and adapt to their environment, and see how they compare to what NOAA scientists really see when they're at work underwater. They will also get to see what kind of SCUBA gear and scientific equipment NOAA scientist's use in their quest to measure the ocean's diversity.

BLUE Track

Office: OAR Office of Exploration and Research

Title: Exploring the Mysteries of the Deep Ocean

Explore the mysteries of the deep ocean in areas never before seen, where explorers use new technology and tools to find new species and map sea mountains. Yet, 95% of Earth's ocean remains unexplored.

Participants will learn about ocean expeditions to undersea volcanoes on the Pacific Ocean's "Submarine Ring of Fire," learn how sound can create 3D maps of the seafloor and the water column, and see video of a variety of strange and beautiful ocean animals that live in Indonesia's deep ocean. They'll touch an example of "alien" life based on chemicals, see the results of water pressure at great depths and learn how they can see--on their own computers-- live images from the seafloor thousands of miles away.

Office: NOAA Office of Education
Title: Build a Buoy!

Can you break the “golf ball record” today? Exercise your need to think creatively while you design, build, and test a model buoy like the observation buoys in the Chesapeake Bay. Discover ideas about symmetry, buoyancy, and balance while you play. Learn about different kinds of buoys and how they help us navigate safely, predict tides, storms and tsunamis, and monitor the health of coral reefs.

Office: NCCOS CCMA

Title: Squid Stuff!

What animal can change color in a second, squirts ink, is jet propelled, and is delicious to eat? The squid, of course! We'll be getting up close and personal with these critters, learning about how they live and dissecting them to see what they look like when they aren't breaded and deep fried!

GREEN Track

Office: NOS CO-OPS

Title: Build a Buoy!

Can you break the “golf ball record” today? Exercise your need to think creatively while you design, build, and test a model buoy like the observation buoys in the Chesapeake Bay. Discover ideas about symmetry, buoyancy, and balance while you play. Learn about different kinds of buoys and how they help us navigate safely, predict tides, storms and tsunamis, and monitor the health of coral reefs.

Office: NWS HQ

Title: Staying Safe....Weather Service Style!

NOAA’s National Weather Service issues warnings for heavy snow, freezing rain, high winds, flash floods, river flooding, thunderstorms, tornadoes, tropical storms, and hurricanes. Get familiar with preparing for severe weather, flooding, emergency response and what you should do to be ready!

Office: NOAA Education and Knauss Fellows

Title: Web of Life

You go fishing on a clear day. The water looks clean and the fish are biting. You catch your limit and all is good. How did the fish you caught get so big and what did the fish you caught eat? Become a fish and part of the oceans’ food web ...will you be predator or prey? Is the biggest fish always the “winner”? Come spend time “swimming in our ocean” and find out some interesting facts about the fish that inhabit our ocean and the influences we have on their environment.