

# Ocean Commotion Activity: Cool Aquatic Websites

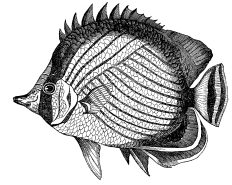
Below is a list of websites that focus on marine science education topics.

## LA Marine Education Resources (LaMER) <http://lamer.lsu.edu>

Contains marine education resources relevant to the Louisiana region. Information and lesson plans are available on topics such as wetlands, dead zone, invasive species, and S.O.A.R. Links to wetlands, hurricanes, tsunamis and other resources.

## Nab the Aquatic Invader – Be a Sea Grant Super Sleuth <http://www.sgnis.org/kids/>

Online interactive site for students in grades 4 to 10. Student acts as a detective and use clues to place aquatic invasive species under arrest.



## Barataria-Terrebonne National Estuary Program

<http://www.btnep.org>

Information on the Barataria-Terrebonne estuarine complex located between the Mississippi and Atchafalaya Rivers in south Louisiana. Download resources and curricula on wetlands, birds, water quality, invasive species, ecotourism, and more. There are many free publications for teachers.



## EPA Wetlands <http://www.epa.gov/owow/wetlands>

Find information on wetlands, why they are important and how they are protected. Includes activities, curriculum and teacher guides, education programs, teaching tools and links.

## LA Coast <http://www.lacoast.gov>

Find a variety of information on Louisiana wetlands from policies, projects, research, and maps to online educational activities for students. There are free brochures, teacher guides and CD-ROMs on wetlands.

## Estuaries Where River Meets Sea <http://www.estuaries.gov/>

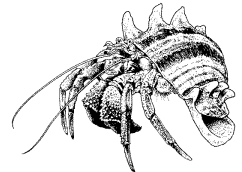
This government website hopes to advance estuarine and coastal literacy. There is a map of US estuaries, free online curriculum, and live broadcast and video collection. Plus the content is reviewed or produced by NOAA scientist.

## National Wetland Research Center <http://www.nwrc.usgs.gov>

Contains fact sheets, publications and educational curriculum on wetlands. “Fragile Fringe” is an on-line teachers’ guide about coastal wetlands, barrier islands, subsidence, wetland functions and values, and the Mississippi River.

## Gulf of Mexico Program <http://www.epa.gov/gmpo/edresrc.html>

Resources for teachers and students on wetlands and Gulf Coast geology and history. Also provided links to EPA resources for students.



## NOAA National Ocean Service <http://oceanservice.noaa.gov/>

Ocean and coastal science content and current research.

## NOS Education Discovery Classroom <http://oceanservice.noaa.gov/education/>

Activities for students in grades 3-12 and fun educational activities for all ages. Visit the “Planet Arcade” to play over 20 educational games from NOAA.. Also provides curriculum, lesson plans, and professional development for teachers.



## NOAA Education Resources <http://www.education.noaa.gov>

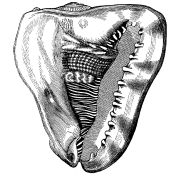
Designed to help students, teachers and the general public access many educational resources. This site includes information about weather, the ocean and coasts, satellites, fish and protected marine mammals, and climate change.

## NOAA Ocean Explorer <http://www.oceanexplorer.noaa.gov/>

Designed for those who want to learn about, discover and explore the ocean. Current information on NOAA scientific and educational explorations and activities. Students can follow explorations in near real-time, learn about exploration technologies and observe remote marine species.

**Bridge: Ocean Sciences Education Teacher Resource Center** <http://www.vims.edu/bridge>

Information, lessons and activities on a variety of oceanographic-related topics in biology, physics, geology, climate, chemistry and technology. Use real data in data analysis activities. Resources available include lesson plan collections, on-line expeditions, national projects and career information, as well as contact information for aquariums, research institutions, and email to "Ask an Oceanographer."



**NOAA online lessons** <http://www.montereyinstitute.org/noaa/>

Link to 15 online lessons on various marine related topics.

**NOAA's coral reef information** <http://www.coris.noaa.gov/>

Designed to be a single point of access to NOAA coral reef information and data products, especially those derived from NOAA's Coral Reef Conservation Program. Includes a glossary of terms and activities related to coral reefs.

**Centers for Ocean Sciences Education Excellence** <http://www.cosee.net/>

Ten centers around the country focus on regional ocean science and opportunities for teachers. Download the ocean literacy pamphlet.

**MARE (Marine Activities, Resources and Education)** <http://www.lawrencehallofscience.org/mare/>

MARE, a K-8 inquiry-based program that promotes an interdisciplinary approach to teaching marine science. Information about professional development along with curriculum and teacher resources are provided. There are games for students including build-a-fish and mapping fish habitats.



**COOL Classroom:** <http://www.coolclassroom.org/home.html>

Join the scientists in the COOLroom as they explore the waters off New Jersey. Learn about some c.o.o.l ocean facts or explore the c.o.o.l. projects that have been created for students. There's also a teachers guide on how to use the Coolroom in your classroom.

**SSWIMS at UCLA:** <http://www.msc.ucla.edu/sswims/marinelinks2.htm>

An alphabetical list of links on marine topics. Find exactly what you are looking for including, lesson plans and background information on a wide variety of subjects.

**Exotic Aquatics on the Move:** <http://www.iisgcp.org/exoticsp/>

This website about invasive species contains a list of websites on non-native species as well as an overview of the topic of exotic species. Include community service projects and lesson plans are available for order on a CD.

**Michigan State University Extension:** <http://web1.msue.msu.edu/cyf/youth/eoe-games/doreflectapply.html>

This youth centered site focuses on invasive species with great activities for learning about invasive species.

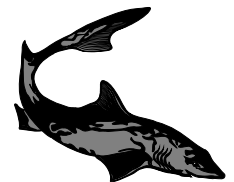
**Center for Aquatic and Invasive Plants** <http://plants.ifas.ufl.edu/>

This website has information on numerous aquatic and invasive plants with links to invasive education and curriculum.

**Florida Museum of Natural History:**

<http://www.flmnh.ufl.edu/fish/Education/education.htm>

Learn about fish groups and anatomy, also the anatomy of sharks, skates, and rays. A shark dissection and teaching modules are being developed.



**Dive-In, on-line expeditions:** <http://www.ocean.udel.edu/expeditions/index.html>

Explored the various dives of the submersible ALVIN to the deep sea. Learn about sea floor geology, deep sea creatures, missions and crew, and some of the high-tech tools used on each of the missions.

**A-B-Sea Foundation Marine Science for students and Teachers:** <http://www.abseas.org/>

This foundation provides students equal access to scientific investigation, at a low cost, focusing on local issues and utilizing local resources, and network support for teachers. There are resources for both students and teachers.

**Climate Variability and Change Classroom Activities** [http://www.gma.org/climate\\_change/index.html](http://www.gma.org/climate_change/index.html)

A great online workbook that looks at the impact of climate change on forest, agriculture, coastal areas and water. There are different versions for various grade levels, covering 1st -12th grade. Student activity sheets, assessment rubric, and answer key are also provided

**Wyland Clean Water Challenge:** <http://www.wylandcleanwaterchallenge.org/index.cfm>

This art and science program developed in part by Scripps, inspires children and the public to protect and preserve water resources. They have a model learning center, art contest, curriculum and teacher resources. Make sure to TAKE THE CHALLENGE to make cleaner choice for your water shed!!

**Creatures of the Deep Sea:** <http://www.seasky.org/deep-sea/introduction.html>

At this website students become a deep sea scientist learning and exploring all of the creatures that make the deep sea their home.



**Tale of a Whale:**

[http://www.smithsonianeducation.org/educators/lesson\\_plans/whale/index.html](http://www.smithsonianeducation.org/educators/lesson_plans/whale/index.html)

A lesson plan from the Smithsonian Institute on endangered North Atlantic right whale, and how marine biologist study whales.

**In Search of the Giant Squid** [http://www.sites.si.edu/exhibitions/gaint\\_squid\\_curriculum\\_guide.pdf](http://www.sites.si.edu/exhibitions/gaint_squid_curriculum_guide.pdf)

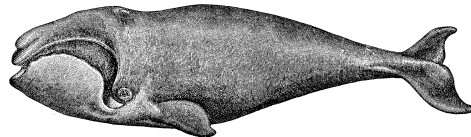
Another lesson plan from the Smithsonian and this one includes numerous activities for learning all about giant squids.

**National Marine Fisheries activity guide** <http://www.afsc.noaa.gov/sep/SEPhome.htm>

A fifty-page activity guide of various types of worksheet (with answer keys) to help you and your students understand the role and contributions of the National Marine Fisheries Service.

**Mr. and Mrs. Fish** <http://mrandmrsfish.com/>

Interactive website that is fun for kids. Included learning about marine organisms, games, and information about this marine education program.



**EPA Climate Change for Kids** <http://www.epa.gov/climatechange/kids/index.html>

A site specially designed for kids that have information about what climate change is, how it affects that water, why it's a problem and what we can do. The site also has games, suggestions for teachers and a climate change calculator.

**Energy Kids** <http://tonto.eia.doe.gov/kids/>

This site by the Energy Information Administration has everything a kid could want to know about energy, as well as fun games and activities. In addition, there's a great teacher page that includes lesson plans, extension guide, and online field trips.

**Energy Start Kids** [http://www.energystar.gov/index.cfm?c=kids.kids\\_index](http://www.energystar.gov/index.cfm?c=kids.kids_index)

Featuring the "quickest ever slideshow on Global Warming" this site has much kids friendly info on climate change, including a great glossary of all the terms. In addition there's information on what kids can do to make a difference.

**JASON Project** <http://www.jasonproject.org/>

Curriculum focus on energy, ecology and monster storms, and register to get access to more material. In the store you can order information on disappearing wetlands. The Jason Project came to Louisiana in 2004!

**Smithsonian Hall of Ocean Science**

[http://ocean.si.edu/ocean\\_hall/index.html](http://ocean.si.edu/ocean_hall/index.html)

**NOAA Ocean and Coasts Education** <http://www.education.noaa.gov/teachers.html>

Links to various websites that serves as reference material and classroom use on a number of topics. Also some information on programs and opportunities for educators.

**NOAA Fisheries: FAQ:** <http://nefsc.noaa.gov/faq/>

The Northeast Fisheries Science Center Site on marine animals covers many topics from abalone to whales. Good illustrations and photographs of the animals are available on the site. Includes links to other sites.