Climate Resources and Websites for the Classroom

NOAA climate information Web site
http://www.climate.gov/#education

Climate Literacy Principles and professional development
http://oceanservice.noaa.gov/education/literacy.html
http://oceanservice.noaa.gov/education/pd/climate/
http://oceanservice.noaa.gov/education/pd/oceans_weather_climate

NOAA Climate Education Resources
http://www.education.noaa.gov/Climate/
http://oceanservice.noaa.gov/education/discoverclimate/

Climate Literacy and Energy Awareness Network Clearinghouse
http://cleanet.org/

Assessment and Impact Reports from the United States Global Change Research Program
http://www.globalchange.gov/resources/reports

Climate Change Wildlife and Wildlands Toolkit
http://globalchange.gov/resources/educators/toolkit

United States Department of Agriculture Forest Service
Climate Change Education Resources http://tinyurl.com/4l37zzh
Natural Inquirer http://www.naturalinquirer.org/
Job Corps Climate Change Curriculum http://tinyurl.com/49bxwjd

EPA Climate Change Resources
http://www.epa.gov/climatechange/

Coral Reef Ecosystems and Climate Change
http://coralreef.noaa.gov/threats/climate/

NASA Climate interactives, images, quizzes, data, videos
http://climate.nasa.gov/
Climte Change Education for Sustainable Development at UNESCO

Climate and Earth Science Lesson Plans
http://oceanservice.noaa.gov/education/lessons/welcome.html

Investigate Earth processes using real data:  http://www.dataintheclassroom.org/
- El Niño
- Sea Level
- Water Quality
- Ocean Acidification

Estuaries:  Real-time data, curriculum and climate resources
http://epa.gov/cre/
http://estuaries.noaa.gov/

National Climate Data Center:  The World’s largest archive of weather and climate data.
http://www.ncdc.noaa.gov

NOAA’s Paleoclimatology Web Site
http://www.ncdc.noaa.gov/paleo/paleo.html

Earth Labs:  Use satellite imagery, numerical data, and computer visualization software to explore Earth system processes.
- Corals  http://serc.carleton.edu/earthlabs/corals/index.html
- Drought  http://serc.carleton.edu/earthlabs/drought/index.html

Upcoming and Archived NSTA Climate Web Seminars:
http://tinyurl.com/6yzsxnc

U.S. Fish and Wildlife:  Conservation in a Changing Climate
http://www.fws.gov/home/climatechange/

NOAA Climate Connection is a monthly e-newsletter for increasing climate literacy and communication capacity for NOAA personnel and partners. For subscription requests, write to: NOAAClimateConnection@noaa.gov.
Climate.Gov
http://www.climate.gov/
Timely and authoritative scientific data and information about climate. Teaching Climate section includes a search engine of the reviewed CLEAN collection.

NOAA Climate Connection is a monthly e-newsletter for increasing climate literacy and communication. For subscription requests, write to: NOAAClimateConnection@noaa.gov

Ten Signs of a Warming World Poster and Interactive
http://climate.noaa.gov/warmingworld/

Windows to the Universe Web Site – Resources on Climate Change – Also In Spanish!
http://www.windows2universe.org/earth/climate/climate.html For the general public, students, and teachers by the National Earth Science Teachers Association.

Investigate Earth processes using real data: http://www.dataintheclassroom.org/
El Niño, Sea Level, Water Quality, Ocean Acidification, Coral Bleaching

Estuaries: Real-time data, curriculum/climate resources, http://estuaries.noaa.gov/

National Climate Data Center: World’s largest archive of weather/climate data
http://www.ncdc.noaa.gov


NOAA Climate Education Resources
http://www.education.noaa.gov/Climate/
http://oceanservice.noaa.gov/education/discoverclimate/

Discover Your Changing World with NOAA Activity Book
http://oceanservice.noaa.gov/education/discoverclimate/welcome.html

The Natural Inquirer – Climate Change Edition
Produced by the United States Forest Services

Diving Deeper: Preparing for Climate-Related Impacts
http://oceanservice.noaa.gov/podcast/nov10/dd110410.mp3
Podcast from NOAA’s National Ocean Service looks at climate change and climate variability and ways we can prepare for climate-related impacts.

National Ocean Service Education Web Site, Teacher Professional Development, Climate Resources. (http://oceanservice.noaa.gov/education/pd/climate)
Especially note resources under the Teaching Climate Tab from past NSTA Climate Symposia including:

- Earth Science and Climate Misconceptions
- Climate Change of the Past
- State of Climate Knowledge
- Human Health Perspectives
- Climate Change Impacts
- What You Can Do

Ocean Today Video Collection features short high interest vignettes of ocean and climate stories.  [http://oceantoday.noaa.gov/](http://oceantoday.noaa.gov/)

Climate Adaptation Mitigation e-Learning (CAMEL)
[http://www.camelclimatechange.org/topics/view/66059/](http://www.camelclimatechange.org/topics/view/66059/)
CAMEL is a free interdisciplinary, online resource for educators with access to vetted, teaching materials about climate change, adaptation, mitigation and possible solutions to limit its impact.

Climate Hot Map from the Union of Concerned Scientists
The site provides and interactive list of “hot spots” around the globe, allows you to view direct impacts of global climate change, and find solutions

Earth Labs – Drought
[http://serc.carleton.edu/earthlabs/drought/index.html](http://serc.carleton.edu/earthlabs/drought/index.html)

Earth Gauge Online Courses/Tutorials
Earth Gauge provides a series of free, online courses and training materials that address the connections between weather and environment.  
[http://www.earthgauge.net/meteorologists/courses](http://www.earthgauge.net/meteorologists/courses)

Climate Adaptation Knowledge Exchange (CAKE),  [http://www.cakex.org/](http://www.cakex.org/)

Climate Wisconsin: Stories from a State of Change,  [http://climatewisconsin.org](http://climatewisconsin.org)

Global Climate Change Learning Modules from the Association of American Geographer's,  [http://globalgeography.aag.org/GlobalClimateChange1e/index.html](http://globalgeography.aag.org/GlobalClimateChange1e/index.html)
Module from the Association of American Geographer's Center for Global Geography Education examines how climates have changed historically, and how the climate is currently being influenced by the activities of humans.