

AIR-Here, There, Everywhere

Chemists Celebrate Earth Day 2005 - eResources for K-12

Levels: (E) Elementary (K-4), (I) Intermediate (6-8), HS High School (9-12), (C) College, and (G) General Public.

Atmosphere

THE ATMOSPHERE - A DELICATE SITUATION (1)

This website introduces students to the fundamental principles of the earth's atmosphere: history, composition, and structure. Provided by: Rice University. URL: http://teachertech.rice.edu/Participants/louviere/atmos.html

CHEMISTRY NOW - CHEMISTRY OF THE ATMOSPHERE (HS)

Looks at how the earth's present atmosphere may have evolved from earlier atmospheres. Provided by: Royal Society of Chemistry. URL: http://www.chemsoc.org/pdf/LearnNet/rsc/Atmos.pdf (PDF)

ENCYCLOPEDIA OF THE ATMOSPHERIC ENVIRONMENT (HS. C. G)

This website is a one-stop source of information on a range of atmospheric issues. Provided by: Manchester Metropolitan University. URL: http://www.doc.mmu.ac.uk/aric/eae/

GLOBE PROGRAM (E, I, HS)

Global Learning and Observations to Benefit the Environment (GLOBE) is a worldwide network allows students, teachers, and scientists to work together to study and understand the global environment. URL: http://www.globe.gov/

IT'S A BREEZE (I, HS)

Learn how air pressure affects you. Provided by: National Aeronautics and Space Administration. URL: http://kids.earth.nasa.gov/archive/air-pressure/index.html

LEARN: ATMOSPHERIC SCIENCE EXPLORERS -- CYCLES OF THE EARTH AND ATMOSPHERE:

A WEB SITE FOR TEACHERS (*I*) LEARN was created to increase middle school science teacher knowledge of and interest in the atmospheric sciences. Provided by: University Corporation for Atmospheric Research. URL: http://www.ucar.edu/learn/

TODAY FROM SPACE: THE EARTH'S ATMOSPHERE: NEAR REAL-TIME RESEARCH IMAGERY

(*G*) Real-time geostationary satellite data is updated every 30 minutes. Provided by: U.S. National Space and Administration Agency. URL: http://science.nasa.gov/newhome/essd/atmosphere_today.htm

Understanding Weather

GREAT WEB SITES FOR KIDS: WEATHER AND THE ENVIRONMENT (E, I)

Contains meaningful and useful content that educates, informs, or entertains. Provided by: American Library Assoc., and Assoc. for Library Service to Children. URL: http://www.ala.org/ala/alsc/greatwebsites/greatwebsitesweather.htm

INTELLICAST.COM: WEATHER FOR ACTIVE LIVES (G)

This website provides extensive weather information to help plan outdoor and weather sensitive activities. URL: http://www.intellicast.com/

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) (I, HS, C, G)

NOAA conducts research and gathers data about the global oceans, atmosphere, space, and the sun. The National Weather Service is a part of NOAA. URL: http://www.noaa.gov/



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ONE SKY MANY VOICES (E, I, HS)

This site was designed to create innovative, inquiry-based K-12 weather curricula for the interactive study of current weather and air quality. Provided by: University of Michigan. URL: http://onesky.engin.umich.edu/

THE ONLINE GUIDES: METEOROLOGY (I, HS, C, G)

Modules use multimedia to introduce fundamental concepts in the atmospheric sciences. Provided by: University of Illinois at Urbana-Champaign. URL: http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/home.rxml

WEATHER WATCH HOME PAGE (E, I)

Weather is wild with hurricanes, winter storms and tornadoes. Learn more about these events with their Weather Watch activities. Provided by: Scholastic, Inc. URL: http://teacher.scholastic.com/activities/wwatch/index.htm

SPACE ENVIRONMENT CENTER: THE OFFICIAL SOURCE OF SPACE WEATHER ALERTS, WARNINGS AND FORECASTS. (*I, HS, C, G*) Official government source for space weather. Provided by: U.S. National Oceanic and Atmospheric Administration. URL: http://www.sec.noaa.gov/index.html

Climate

ASK DOCTOR GLOBAL CHANGE (HS, C, G)

Reference Service that helps users find information and data relevant to global environmental change. Provided by: US Global Change Research Info. Office. URL: http://gcrio.custhelp.com/cgi-bin/gcrio.cfg/php/enduser/home.php

CLIMATE CHANGE PORTAL (HS, C, G)

This portal is a central source for substantive work and information resources regarding climate change. Provided by: United Nations Environment Programme. URL: http://climatechange.unep.net/

GLOBAL CHANGE MASTER DIRECTORY (HS, C)

This directory provides descriptions of Earth science data sets and services relevant to global change research. Provided by: U.S. National Aeronautics and Space Administration. URL: http://gcmd.gsfc.nasa.gov/

GLOBAL CLIMATE CHANGE > RESEARCH EXPLORER (I, HS, C)

Contains scientific data related to the atmosphere and other parts of the biosphere. Provided by: The Exploratorium Museum. URL: http://www.exploratorium.edu/climate/index.html

NASA'S EARTH OBSERVING SYSTEM (EOS) (E, I, HS, C, G)

EOS is composed of a series of satellites, a science component, and a data system supporting a coordinated series of polar-orbiting and low inclination satellites for long-term global observations of the land surface, biosphere, solid Earth, atmosphere, and oceans. URL: http://eospso.gsfc.nasa.gov/index.php

NASA EARTH OBSERVATORY (I, HS, C, G)

It provides web access to satellite imagery focusing on climate and environmental change. Contains an excellent glossary. Can view web pages with the glossary mode turned on or off. URL: http://earthobservatory.nasa.gov/

NATIONAL CLIMATIC DATA CENTER (NCDC) (I, HS, C, G)

The world's largest active archive of weather data, the NCDC is a national resource for climate information. As climate knows no boundaries, NCDC works closely with scientists and researchers worldwide. Provided by: U.S. National Oceanic and Atmospheric Administration. URL: http://www.ncdc.noaa.gov/oa/ncdc.html