COSEE-West lecture & workshop, April 2005: "Sea Ice & Satellites"

Electronic Resources

General Background Info:

NASA/JPL Home page http://www.jpl.nasa.gov/	A great starting point to learn about all JPL's resources on earth, space, and science and education.
NASA Core http://core.nasa.gov/	The NASA Central Operation of Resources for Educators (CORE) serves as a worldwide distribution center for NASA-produced multimedia materials.
Thursday's Classroom http://www.thursdaysclassroom.com/	This site provides a connection between NASA research and the classroom. The weekly lessons, prepared by professional educators and scientists, are based on breaking Science@NASA news reports.
Earth Observatory http://earthobservatory.nasa.gov/	Contains data, images, missions, experiments, and a link to "Visible Earth" - a catalog of NASA images and animations of our home planet.
The Center for Space Research http://www.csr.utexas.edu/topex/	The Center for Space Research has its own Educational Outreach page that includes information "For Kids," - educational programs, and science results.

Oceanography, Climatology, and Satellite Imagery:

Oceanography and Earth Science http://podaac.jpl.nasa.gov/edu/	Education web pages – includes a 40 page document of resources (also available in hard copy). Info is appropriate for elementary through college levels.
Atmospheric Infrared Sounder http://www-airs.jpl.nasa.gov/	Education web pages – An on-line site discussing the role of clouds in weather, climate, and the water cycle and how we will observe them with the Atmospheric Infrared Sounder. Activities and images included.
Studying Oceans from Space http://topex-www.jpl.nasa.gov/	Education web pages – El Niño and La Niña, ocean circulation, sea-level rise. Contains a wide range of materials: "ask-a-scientist," ocean satellite facts, data tutorials, and buoy-tracking map.
Ocean winds, Weather, and Climate http://winds.jpl.nasa.gov/education/	Education web pages – Students and teachers will find classroom activities and information related to the study of ocean winds and their impact on Earth's weather and climate system.

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Oceanography, Climatology, and Satellite Imagery: (cont'd.)

NOAA Satellite and Information Service http://www.nesdis.noaa.gov/	A great resource for satellite research; contains links for data, images, and other education and outreach materials.
SeaWiFS project http://oceancolor.gsfc.nasa.gov/SeaWiFS/	A site that reports data collected by satellites orbiting around the Earth. Contains a great teacher's resource page with a link to "Living Ocean, a teacher's guide"
Climate Change North http://www.climatechangenorth.ca/	A fantastic resource for understanding how climate change affects us; provides great student/teacher materials with lesson plans, curriculum links, and glossary.
Cooperative Institute for Meteorological Satellite Studies http://cimss.ssec.wisc.edu/satmet/index.html	Satellite Meteorology for grades 7-12: hands-on activities that monitor weather and global conditions.
Jet Propulsion Laboratory and NASA http://southport.jpl.nasa.gov/polar/index.html	This site uses satellite RADAR imagery to study the polar regions. Contains ice facts and images from the SAR satellite.
Woods Hole Ocean and Climate Change Institute http://www.whoi.edu/institutes/	A comprehensive site filled with information on current topics related to climate change and the oceans from scientists.
Imaging Radar http://southport.jpl.nasa.gov/education/classroom/	A virtual classroom that contains radar images, videos, slide sets, and reference materials designed for students and teachers.

Marine Science Education:

The Bridge http://www.vims.edu/bridge/	The Bridge is a unique clearinghouse with links to the best K-12 ocean sciences education sites available online.
OceanLink http://oceanlink.island.net/	A partnership between several marine organizations, all committed to marine education.
OceanWorld http://oceanworld.tamu.edu/	An on-line resource for educators: information about useful books, links to lesson plans and classroom activities.