

Real-Time Data Education Products

This resource list was compiled as part of the focus group study: *SWMP/IOOS Real-Time Data in K-12 Classrooms* (for more information on this study, go to <http://marine.rutgers.edu/outreach/rtd/>).

In the spring of 2006, stakeholders and teachers cited the activities and projects listed below as ones that are currently being used to learn about scientific data and how to incorporate data and real-time data into classrooms. Where possible, we have attempted to identify relevant web sites to the datasets and programs mentioned by participants.

AccuWeather	http://home.accuweather.com
Aviation Weather	http://aviationweather.gov/
American Meteorological Society (AMS) Education Programs	http://www.ametsoc.org/amsedu/
AMS DataStreame	http://www.ametsoc.org/amsedu/DataStreameFrames.html
Argo Ocean	
Audubon Society bird counts	http://www.audubon.org/bird/
AWS (school weather systems)	http://www.aws.com
Bermuda Atlantic Time-series Program (BATS)	http://www.bbsr.edu/cintoo/bats/bats.html
Boston Harbor sampling	http://www.mwra.state.ma.us/harbor/html/bh_wq.htm
B-WET	http://sanctuaries.noaa.gov/news/bwet/welcome.html http://www.csc.noaa.gov/psc/bwet.html
California Air Resources Board (air pollution info)	http://www.arb.ca.gov/knowzone/knowzone.htm http://www.arb.ca.gov/aqd/aqinfo.htm
Cool Classroom	http://coolclassroom.org
The COOL Room (RU COOL)	http://thecoolroom.org
COSEE – MA	http://www.macosee.net/
COSEE – National	http://www.cosee.net/
Digital Library for Earth System Education (DLESE)	http://www.dlese.org/library/index.jsp
Eclipse Webcast 2006	http://www.exploratorium.edu/eclipse/2006/index.html
EPA	http://www.epa.gov/
EPA Empact Data	http://iaspub.epa.gov/edr/empact\$.startup
Estuaries Live	http://www.estuarylive.org/
Eyes on the Bay	http://mddnr.chesapeakebay.net/eyesonthebay/index.cfm
Gas mileage	http://www.fueleconomy.gov/
GLOBE	http://www.globe.gov
GoMOOS (Gulf of Maine buoy data)	http://www.gomoos.org/
Gulf stream (sea surface temperatures, eddies, 'tagging along')	
Gulf Stream Voyage	http://www.k12science.org/curriculum/gulfstream/index.shtml
Heal the Bay website	http://www.healthebay.org/
HOT Hawaii Ocean Time-series	http://hahana.soest.hawaii.edu/hot/hot_jgofs.html
Hurricane data from various sources	http://www.nhc.noaa.gov/ http://www.wunderground.com/tropical/
LabPros with Vernier software to collect data & view on laptops	http://www.vernier.com/
LiMPETS – Monterey Bay National Marine Sanctuary	http://limpets.noaa.gov/
Lobster larval (Hatch to Catch)	http://www.bigelow.org/hatch_to_catch/
Maryland DNR	http://www.dnr.state.md.us/
MBARI Education and Research: Testing Hypotheses (EARTH)	http://www.mbari.org/earth/
NANOOS	http://www.nanoos.org/

NASA	http://www.nasa.gov/ http://science.nasa.gov/ http://earthobservatory.nasa.gov
Naval Astronomical Observatory	http://aa.usno.navy.mil/
NMEA Bridge	http://www.vims.edu/bridge/
NMS GIS Edges	http://www.evisual.org/www/Instr/MOS.html
NOAA Data Sources	http://www.noaa.gov/
NOAA Real-Time Weather data	http://www.weather.gov/
NOAA global sea surface data	
NOAA TAO Array Data	http://www.pmel.noaa.gov/tao/jsdisplay/
nowCOAST	http://nowcoast.noaa.gov/
NSF's Ocean Observatories Initiative (OOI) and ORION program	http://www.orionprogram.org/default.html
National Weather Service	http://www.nws.noaa.gov/
NWS Extreme Weather	
Ocean buoy data	http://www.ndbc.noaa.gov/
Ocean Globe Project (study of the effects rainfall/winter storms have on beach erosion, marine life and beach debris)	
Ocean Institute @ Dana Point	http://www.ocean-institute.org/index2.html
OceanObs	http://oceanobs.org/
Pacific Tsunami Warning Center sites (combined with Google Earth)	http://www.prh.noaa.gov/ptwc/
Peak Project – study energy use in the home	
Phytopia	http://www.bigelow.org/phytopia/
Sanctuary Splash	
Santa Monica Bay Observatory	http://quercus.igpp.ucla.edu/sambo/
SCCOOS	http://www.sccoos.org/
Science House	http://www.science-house.org/
Sea Turtle Tracking project	http://www.seaturtle.org/tracking/
SEACOOS	http://www.seacoos.org/
SERC	http://www.serc.si.edu/
Stowaway Project	http://www.ciese.org/curriculum/shipproj/
Surfrider Foundation	http://www.surfrider.org/
Sustainable Seas	http://oceanservice.noaa.gov/websites/retiredsites/supp_SSEretired.html
SWMP	http://nerrs.noaa.gov/Monitoring/
Tide Data	http://tidesandcurrents.noaa.gov/
Tagging Data Edges	
Traffic cams	
USDA/NRCS	http://www.nrcs.usda.gov/
USGS River Gauge Data	http://waterdata.usgs.gov/nwis/
USGS Seismic Data	http://earthquake.usgs.gov/
Weather Bug	http://www.weatherbug.com/
Weather Channel	http://www.weather.com/
Weather data from DataStrems Oceans	http://www.ametsoc.org/amsedu/DS-Ocean/home.html
Weather tracking	
Weather Underground – includes local stations	http://www.wunderground.com/
Weeks Bay Estuary (changes during Hurricane Katrina)	http://nerrs.noaa.gov/WeeksBay/welcome.html
Woods Hole Oceanographic Institute – Dive and Discover	http://www.divediscover.whoi.edu/
Woods Hole Research Center – Green	

Other Custom Data Sources

- Classroom labs/experiments
- Local pond study
- Science fair projects or research
- Student-collected data
- Water quality data
- Water temperature studies
- Weather data

Revised October 2, 2006

Edited December 13, 2006