



PaSSAGE Workshop 2016

LinkedUp: a community sharing of your favorite educational and/or instructional classroom links

ASTRONOMY

For electromagnetic spectrum, video on IR “Infrared: More than your eyes can see”

<https://www.youtube.com/watch?v=2--0q0XlQJ0>

Listen to a pulsar

<http://www.jb.man.ac.uk/pulsar/Education/Sounds/>

Pictures and animations of solar flares, prominences, etc.

<https://sohowww.nascom.nasa.gov>

Astronomy picture of the day (Gregory Fitzgibbons, Seminole State College)

<http://apod.nasa.gov/apod/astropix.html>

MrEclipse (Gregory Fitzgibbons, Seminole State College)

<http://mreclipse.com/>

Astronomy simulations and animations (Paul Cutlip, St Petersburg College)

<http://astro.unl.edu/animationsLinks.html>

EARTHQUAKES

***Premiere site with great resources...**

<https://www.iris.edu/hq/>

*Wave visualizations

https://www.iris.edu/hq/programs/education_and_outreach/visualizations

*Earthquake viewer with 3D capability

<http://ds.iris.edu/ieb/index.html?format=text&nodata=404&starttime=1970-01-01&endtime=2025-01-01&orderby=time-desc&limit=2000&maxlat=88.11&minlat=-88.11&maxlon=180.00&minlon=-180.00&pbl=1&name=Be%20sure%20to%20try%20the%203D%20viewer%2C%20see%20lower%20right&zm=1&mt=ter>

*Global earthquakes

<http://ds.iris.edu/seismon/>

*Worldwide earthquakes visualization map Japan 2011

https://www.youtube.com/watch?v=dPEpSX08K_Q

A more detailed version of updated recent earthquakes (click on the cog in upper right to go from US to global and change time frame)

<http://earthquake.usgs.gov/earthquakes/map/>

The AS1 seismometer at Waubensee (updated every 10 min)

<http://ds.iris.edu/amaseis/schools/as1imgs/WCIL.png>

*The great Alaskan earthquake of 1964 explained

https://www.iris.edu/hq/inclass/animation/alaska_the_great_alaska_earthquake_of_1964

Virtual earthquake (Rachelle Benken, Palm Beach State College)

<http://www.sciencecourseware.org/virtualearthquake/vquakeexecute.html>

CLIMATE CHANGE/WEATHER

NOAA Mauna Loa carbon dioxide data

<http://www.esrl.noaa.gov/gmd/ccgg/trends/>

Global air quality monitoring—nitrogen dioxide

<http://svs.gsfc.nasa.gov/4435>

NOAA Climate Prediction Center (2 week to 3 month, ENSO, etc)

<http://www.cpc.ncep.noaa.gov>

NOAA Storm Prediction Center

<http://www.spc.noaa.gov>

NOAA National Hurricane Center

<http://www.nhc.noaa.gov>

Most damaging hurricanes story maps (Rachelle Benken, Palm Beach State College)

<http://story.maps.arcgis.com/apps/MapSeries/index.html?appid=50aea84a9853491f994f775cb989ea92>

For the Greenhouse effect, animation includes terrestrial radiation

<https://phet.colorado.edu/en/simulation/greenhouse>

Weather maps, showing individual city reports

<http://www.ametsoc.org/amsedu/dstreme/>

*Live wind map

<http://hint.fm/wind/>

*Hurricane Sandy landfall

<http://hint.fm/wind/gallery/oct-29.js.html>

*Arctic sea ice minimum 1979-2015

<http://svs.gsfc.nasa.gov/4435>

Winds, waves, temps and other great global things

<https://www.windytv.com/?28.997,-81.056,6>

National Weather Service (Greg Fitzgibbons)

<http://www.weather.gov/>

GEOLOGY

Geology from a small plane

<http://geoscience.wisc.edu/~maher/air/air00.htm>

*Meandering river gifs

<https://hinderedsettling.com/2014/03/16/rivers-through-time-as-seen-in-landsat-images/>

<http://i.imgur.com/Uak4YU3.gif>

*Mississippi River watershed

<http://svs.gsfc.nasa.gov/4493>

SWFWMD Watershed info (Jessica Olney, Hillsborough Community College)

<http://www.swfwmd.state.fl.us/education/watersheds/>

Geology labs online (Christine Downs, Hillsborough Community College)

<http://www.sciencecourseware.org/glol/>

Weighting evidence for mass extinction—in the ocean (Kaydee West, Hillsborough Community College)

<http://www.hhmi.org/biointeractive/weighing-evidence-mass-extinction-ocean>

GENERAL

NASA Scientific Visualization Studio

<http://svs.gsfc.nasa.gov/index.html>

*Earth (many users)

<https://earth.nullschool.net/>

*Scale of the Universe

<http://htwins.net/scale2/>

GROUNDWATER

Florida's aquifer systems

<https://fldep.dep.state.fl.us/swapp/Aquifer.asp#>

*A video explanation of Florida's aquifer system and saltwater intrusion

<https://www.youtube.com/watch?v=O6A5AZ-yveA>

OCEANOGRAPHY

Deep-sea volcanoes

<https://science360.gov/obj/video/7fd07de8-f43b-46dd-89e1-c5bcf74949ee/deep-ocean-volcanoes>

*National Buoy Data Center

<http://www.ndbc.noaa.gov/>

*Ocean currents and sea surface temperature visualization map

<http://svs.gsfc.nasa.gov/vis/a000000/a003800/a003821/index.html>

Coral Reef Watch satellite monitoring

<http://coralreefwatch.noaa.gov/satellite/index.php>

*Shark tagging with OCEARCH

<http://www.ocearch.org/>

NOAA tsunami warning center

<http://ntwc.arh.noaa.gov/>

NOAA tsunami system

<https://www.youtube.com/watch?v=ivsNyo52DI8&feature=youtu.be>

*Ocean noise pollution—NRDC

https://www.youtube.com/watch?v=lvTJAqhUjro&feature=player_embedded

*Camouflaged octopus

<https://www.youtube.com/watch?v=PmDTtkZIMwM>

*Mimic octopus

<https://www.youtube.com/watch?v=t-LTWFnGmeg>

*Mobile ocean fish farm

<https://www.youtube.com/watch?v=DCz1KNBI60I&feature=related>

*Ocean renewable energy from Ocean Thermal Energy Conversion (OTEC)

<https://www.youtube.com/watch?v=x59MptHscxY&feature=related>

*Ocean renewable energy from waves—Pelamis sea snake

<https://www.youtube.com/watch?v=nH8uWOt-0z8>

Ocean sounds

<http://oceanexplorer.noaa.gov/explorations/sound01/background/seasounds/seasounds.html>