**Alphabetized Earth Science Animations**

**A**
[Absorption – EM Radiation](http://earthguide.ucsd.edu/earthguide/diagrams/absorption/), [Accidental Discoveries – Gamma Ray Bursts](http://www.teachersdomain.org/resource/psu06-swift.sci.discoveries/), [Acid Mine Drainage Remediation 1](http://www.teachersdomain.org/resource/watsol.sci.ess.water.amdren/), [Acid Mine Drainage Remediation 2](http://www.teachersdomain.org/resource/watsol.sci.ess.water.mindrrem/), [Acid Rain](http://www.epa.gov/acidrain/education/site_students/acid_anim.html), [Adiabatic – Dry vs. Wet Rates](https://courseware.e-education.psu.edu/public/meteo/meteo101demo/Examples/Section6p04.html), [Adiabatic Processes](http://apollo.lsc.vsc.edu/~wintelsw/MET1010LOL/chapter06/#adiabatic1), [Agricultural Runoff – Gulf of New Mexico](http://www.teachersdomain.org/resource/envh10.sci.life.eco.deadzone/), [Alpine Glacier – Moraine](http://www.uwsp.edu/geo/faculty/lemke/glacial_processes/MoraineMovie.html), [Antarctica](http://www.teachersdomain.org/resource/ipy09.sci.ess.watcyc.lima/),  [Antarctica – Drilling to the Core](http://www.teachersdomain.org/resource/ipy07.sci.ess.earthsys.drillcore/), [Antarctica – Sea Ice](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.seaice/), [Antarctic Ice Sheet Movement 1](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.icesheets/), [Antarctic Ice Sheet Movement 2](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.icestreams/), [Aphelion](http://www.windows.ucar.edu/tour/link%3D/physical_science/physics/mechanics/orbit/perihelion_aphelion.html%26edu%3Dhigh), [Aquifer – Quality (Robocow)](http://www4.agr.gc.ca/AAFC-AAC/display-afficher.do?id=1187368724250&lang=eng), [Arch Formation](http://www.classzone.com/books/earth_science/terc/content/visualizations/es1601/es1601page01.cfm?chapter_no=visualization), [Arctic Climate Change – Global Warming](http://www.teachersdomain.org/resource/echo07.sci.life.coast.climate/), [Arctic Climate System](http://www.teachersdomain.org/resource/ean08.sci.ess.earthsys.climatesys/), [Arctic Haze](http://www.teachersdomain.org/resource/ean08.sci.ess.earthsys.arctichaze/), [Arctic Seafloor – Exploration](http://www.teachersdomain.org/resource/nsn09.sci.life.eco.seafloor/), [Arctic Sea Changes](http://www.teachersdomain.org/resource/ipy07.sci.ess.eiu.nasadata/), [Artesian Aquifer](http://highered.mcgraw-hill.com/sites/0072414944/student_view0/chapter26/animations.html), [Astrobiology](http://www.teachersdomain.org/resource/klvx08.sci.klvxastro/), [Astronomy Theories](http://www.teachersdomain.org/resource/psu06-swift.sci.astronomy/), [Atmosphere Exploration](http://www.teachersdomain.org/resource/odc08.scitech.weathernot.atmosphere/), [Atmosphere – Vertical Structure](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.vertical/), [Atmospheric Layers](http://earthguide.ucsd.edu/earthguide/diagrams/atmosphere/index.html), [Atoll](http://www.pbs.org/wgbh/nova/eden/build2.html), [Atom Builder](http://www.pbs.org/wgbh/aso/tryit/atom/), [Aurora Borealis](http://bcs.whfreeman.com/universe6e/pages/bcs-main.asp?s=00110&n=01000&i=08110.12&v=category&o=|08000|01000|&ns=0&uid=0&rau=0), [Auroras](http://www.teachersdomain.org/resource/ess05.sci.ess.eiu.auroras/), [Avalanche Formation](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.avalanche/), [Avalanche Town](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.iceland/)
**B**
[Balloons and Buoyancy – PHET Interactive](http://phet.colorado.edu/en/simulation/balloons-and-buoyancy), [Balloons and Static Electricity – PHET Interactive](http://phet.colorado.edu/en/simulation/balloons), [Bank Erosion](http://whyfiles.org/091beach/images/house.mov), [Baymouth Bar](http://highered.mcgraw-hill.com/sites/0072402466/student_view0/chapter14/animations_and_movies.html), [Beach Profile](http://earthguide.ucsd.edu/earthguide/diagrams/coasts/beachprofile.html), [Bedload](http://www.stream.fs.fed.us/publications/video/hm%20short.mov), [Bering Ice Bridge](http://instaar.colorado.edu/QGISL/bering_land_bridge/), [Bioaccumulation](http://www.youtube.com/watch?v=MXSv0ifvDjc), [Biogeochemical Cycles](http://bcs.whfreeman.com/thelifewire/pages/bcs-main.asp?v=category&s=00020&n=01000&i=01020.01&o=|00510|00570|00520|00530|00540|00550|00580|00130|00PRS|00560|00590|00010|00020|00030|00040|00050|00060|00070|00120|00080|00090|00100|00110|01000|02000|03000|040) (scroll to Chap. 58), [Biomes](http://bcs.whfreeman.com/thelifewire/content/chp56/5602002.html), [Birth of a Supernova – Type 1A](http://www.teachersdomain.org/resource/phy03.sci.phys.matter.nova1/), [Birth of a Supernova – Type 2](http://www.teachersdomain.org/resource/phy03.sci.phys.matter.nova2/), [Blackbody Radiation](http://highered.mcgraw-hill.com/sites/0072482621/student_view0/interactives.html), [Blackbody Spectrum – PHET Interactive](http://phet.colorado.edu/en/simulation/blackbody-spectrum), [Black Hole](http://www.teachersdomain.org/resource/ess05.sci.ess.eiu.blackhole/), [Black Hole – Interactive](http://hubblesite.org/explore_astronomy/black_holes/), [Black Smoker](http://earthref.org/cgi-bin/er.cgi?s=erda.cgi?n=578), [Body Weight – Planets](http://www.teachersdomain.org/resource/ess05.sci.ess.eiu.weightworlds/), [Braided Stream](http://faculty.gg.uwyo.edu/heller/SedMovs/xes_braid.htm), [Build and Island 1](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.island/), [Build an Island 2](http://www.teachersdomain.org/resource/nat08.earth.geol.tec.build/)
**C**
[Carbon Capture 1](http://www.teachersdomain.org/resource/nsn08.sci.ess.watcyc.capcarbonint/), [Carbon Capture 2](http://www.teachersdomain.org/resource/nsn08.sci.ess.watcyc.capcarbon/), [Carbon Capture and Sequestration](http://www.tepelyan.com/blog/animation-carbon-capture-for-the-rest-of-us), [Carbon Cycle](http://bcs.whfreeman.com/thelifewire/content/chp58/5802002.html), [Carbon Sink – Trees](http://www.accuweather.com/video/62651293001/trees-a-big-carbon-sink.asp?channel=earth), [Carbonate Platforms](http://bcs.whfreeman.com/understandingearth/pages/bcs-main.asp?s=00110&n=08000&i=08110.02&v=category&o=|00510|09000|01000|02000|03000|06000|07000|08000|&ns=304&uid=0&rau=0), [Caves and Karst](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.caveintro/), [Cave – Features](http://www.goodearthgraphics.com/virtcave/virtmap.html), [Cave – Formation 1](http://www.classzone.com/books/earth_science/terc/content/visualizations/es1405/es1405page01.cfm?chapter_no=visualization), [Cave – Formation 2](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.caveform/), [Cave – Life Conditions](http://www.teachersdomain.org/resource/ess05.sci.ess.eiu.lifecondtn/), [Cave – Virtual](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.virtmap/), [Cave Formation – Biogeochemical Cycles](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.cavebiogeo/), [Celestial Sphere 1](http://astro.unl.edu/classaction/animations/coordsmotion/celhorcomp.html), [Celestial Sphere 2](http://www.teachersdomain.org/resource/psu10phy.sci.celestial/), [Celestial Sphere – Sun](http://www.sonic.net/~rknop/php/astronomy/astromovies/sunpos.html), [Changes in Lake Ice and Snow](http://www.teachersdomain.org/resource/ean08.sci.ess.watcyc.lakesnow/), [Chemical Weathering – Clay Formation](http://courses.soil.ncsu.edu/resources/soil_classification_genesis/mineral_weathering/mineral_change.swf), [Chicken Waste and Water Pollution](http://www.teachersdomain.org/resource/envh10.sci.life.eco.chickenwaste/), [Circulation – Global](http://geography.uoregon.edu/envchange/clim_animations/), [Circulation – Global (11.2)](http://www.brookscole.com/cgi-wadsworth/course_products_wp.pl?fid=M20b&product_isbn_issn=0534397719&discipline_number=30), [Clastic Rocks](http://www.wiley.com/college/strahler/0471480533/animations/ch12_animations/animation2.html), [Climate and Human Evolution](http://www.teachersdomain.org/resource/clim10.sci.ess.watcyc.evoclimate/), [Climate and Seasons – Effects of Earth’s Position](http://www.teachersdomain.org/resource/odc08.scitech.weathernot.climate/), [Climate Change](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.climatechange/), [Climate Change – Adaptation and Mitigation](http://www.teachersdomain.org/resource/ecb10.sci.ess.watcyc.adaptation/), [Climate Change – Africa](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.naturalchange/), [Climate Change – Arctic Ecosystem](http://www.teachersdomain.org/resource/ean08.sci.life.eco.arctichange/), [Climate Change – Atmospheric Particles](http://www.teachersdomain.org/resource/ttv10.sci.ess.watcyc.aerosols/), [Climate Changes – Diatoms](http://www.teachersdomain.org/resource/clim10.sci.ess.earthsys.diatom/), [Climate Change – Glacial Clues](http://www.teachersdomain.org/resource/ttv10.sci.ess.shrinking/), [Climate Change – Glaciers 1](http://www.teachersdomain.org/resource/ean08.sci.ess.earthsys.inpassage/), [Climate Change – Glaciers 2](http://www.teachersdomain.org/resource/ttv10.sci.ess.watcyc.glacialwater/), [Climate Change – Greenland Ice Sheet](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.greenland/), [Climate History – Glacial Ice Cores](http://www.teachersdomain.org/resource/clim10.sci.ess.earthsys.icecores/), [Climate – Jet Streams](http://www.teachersdomain.org/resource/ttv10.sci.ess.jet/), [Climate – Land Masses](http://www.teachersdomain.org/resource/ttv10.sci.ess.land/), [Climate Models](http://www.teachersdomain.org/resource/ttv10.sci.ess.climatemodels/), [Climate Zones](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.climatezones/), [Cloud Types 1](http://science-edu.larc.nasa.gov/SCOOL/tutorial/clouds/cloudtypes.html), [Cloud Types 2](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.cloudtype/), [Clues From Past Climates](http://www.teachersdomain.org/resource/ttv10.sci.ess.clues/), [Coal](http://www.teachersdomain.org/resource/watsol.sci.ess.water.geocoal/), [Coal – Formation](http://www.classzone.com/books/earth_science/terc/content/visualizations/es0701/es0701page01.cfm?chapter_no=visualization), [Coal – Mining](http://www.coaleducation.org/miningtv/default.htm), [Coal – Technology](http://www.teachersdomain.org/resource/ayv09.sci.life.eco.cleancoal/), [Coastal Cliffs – Hawaii](http://www.teachersdomain.org/resource/nat08.earth.geol.eros.cliffs/), [Coastal Geologic Processes](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.coastprocess/), [Coastal Geological Sediments](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.coastmat/), [Coastal Straightening](http://highered.mcgraw-hill.com/sites/0072402466/student_view0/chapter14/animations_and_movies.html), [Coasts](http://www.joebenton.co.uk/flash/19/), [Cold Front,](http://www.classzone.com/books/earth_science/terc/content/visualizations/es2002/es2002page01.cfm?chapter_no=visualization)  [Collecting Data – Below Earth’s Surface](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.boatnv/), [Colloid – Soil](http://www.wiley.com/college/strahler/0471480533/animations/ch21_animations/soilph.html), [Combined Sewer Outflows](http://www.cityofbremerton.com/content/cso_csos.html), [Comet Impact – Encounter](http://www.nasa.gov/mission_pages/deepimpact/multimedia/di-animation.html), [Comet Tail](http://bcs.whfreeman.com/universe6e/pages/bcs-main.asp?s=00110&n=01000&i=17110.02&v=category&o=|17000|01000|&ns=0&uid=0&rau=0), [Composite Volcano](http://www.curriculumbits.com/prodimages/details/geography/natural-disasters-volcanoes.html), [Compost Pile](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.conserve/), [Cone of Depression](http://highered.mcgraw-hill.com/sites/0072402466/student_view0/chapter11/animations_and_movies.html), [Conserving Topsoil](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.organic/), [Convective Cloud Systems](http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.convective/), [Convergent Boundaries – Activities](http://www.learner.org/interactives/dynamicearth/slip2.html), [Contouring – Elevation 1](http://www.visualentities.com/contour.htm), [Contouring – Elevation 2](http://www.classzone.com/books/earth_science/terc/content/investigations/es0307/es0307page03.cfm?chapter_no=investigation), [Contouring – Spacing](http://www.classzone.com/books/earth_science/terc/content/investigations/es0307/es0307page05.cfm), [Contouring – Valleys](http://www.classzone.com/books/earth_science/terc/content/investigations/es0307/es0307page07.cfm?chapter_no=investigation), [Contouring – Weather](http://itg1.meteor.wisc.edu/wxwise/contour/index.html),[Convection – Mantle](http://highered.mcgraw-hill.com/sites/0072402466/student_view0/chapter19/animations_and_movies.html), [Coriolis – Airplane](http://www.classzone.com/books/earth_science/terc/content/visualizations/es1904/es1904page01.cfm?chapter_no=visualization), [Coriolis – Merry-Go-Round](http://www.youtube.com/watch?v=mcPs_OdQOYU), [Crossbedding – Formation](http://www.wwnorton.com/college/geo/egeo2/content/animations/5_3.htm), [Crystallization](http://conference.merlot.org/2007/Thursday/Sattsangi_Crystalization.swf), [Cyclogenesis (13.1)](http://www.brookscole.com/cgi-wadsworth/course_products_wp.pl?fid=M20b&product_isbn_issn=0534397719&discipline_number=30)
**D**
[Dam Removal](http://www.pbs.org/wgbh/buildingbig/dam/challenge/index.html), [Dark Matter](http://highered.mcgraw-hill.com/sites/0072482621/student_view0/interactives.html), [Death Valley – Geology](http://www.teachersdomain.org/resource/etv08.sci.ess.earthsys.geology/), [Deep Ocean Currents (audio)](http://bcs.whfreeman.com/thelifewire/content/chp58/5802003.html), [Deep Sea Vents](http://www.teachersdomain.org/resource/tdc02.sci.ess.earthsys.deepseavents/), [Deep Time](http://www.teachersdomain.org/resource/psu10sci.vid.deeptime/), [Deforestation in Bolivia](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.bolivia/), [Deglaciation – North America](http://emvc.geol.ucsb.edu/3_downloads/M2IceAge/aDeglacNoAmMovie/NoAmDeglaciation.mov), [Demographic Transition](http://uccpbank.k12hsn.org/courses/APEnvironmentalScience/course%20files/multimedia/lesson33/animations/3a_demographic_transition.html), [Demographic Transition – Interactive](http://www.learner.org/courses/envsci/interactives/demographics/), [Denudation](http://bcs.whfreeman.com/understandingearth/pages/bcs-main.asp?s=00110&n=18000&i=18110.02&v=category&o=|00510|09000|01000|02000|03000|06000|07000|08000|10000|12000|13000|14000|15000|16000|17000|18000|&ns=915&uid=0&rau=0), [Delta Loss – Louisiana](http://www.nola.com/speced/lastchance/multimedia/flashlandloss1.swf), [Desalinization](http://www.oceanit.com/images/stories/Consulting_Engineering/Desal_Kalaeloa/Oceanit_desal_VOtodd_v1b-HI.wmv), [Diamond – Exploration](http://www.diamondexresources.com/flash/exploration/Exploration_Introduction_Preloader.html), [Diamond – Formation](http://www.pbs.org/wnet/nature/diamonds/diamonds_flash.html), [Diamonds – Dating Earth](http://www.teachersdomain.org/resource/nat08.earth.geol.min.aging/), [Diamonds – Inclusions](http://www.teachersdomain.org/resource/nat08.earth.geol.min.conclusion/), [Dinosaurs](http://www.teachersdomain.org/resource/idptv11.sci.ess.earthsys.d4kdin/), [Dinosaurs – Extinction](http://www.teachersdomain.org/resource/tdc02.sci.ess.earthsys.dinokill/), [Dinosaurs – Fossils](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.fossilintro/), [Difference Between Weather and Climate](http://www.teachersdomain.org/resource/ecb10.sci.ess.watcyc.weather/), [Disappearing Aral Sea](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.aralsea/), [Doppler Effect](http://highered.mcgraw-hill.com/sites/0072482621/student_view0/interactives.html), [Dredge](http://www.youtube.com/watch?v=pBZPX99VSrY), [Dredging](http://www.wgrz.com/news/article/133006/37/Ready-Set-Dredge), [Drill and Blast – Explanation](http://www.winsfordrocksaltmine.co.uk/video-clips/), [Drill and Blast – Explosion](http://www.youtube.com/watch?v=zEwIZ1IyNyQ), [Drought](http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.esdrought/), [Drought – 12 Week U.S. Pattern](http://www.drought.unl.edu/dm/12_week.gif), [Dune – Formation](http://highered.mcgraw-hill.com/sites/0072402466/student_view0/chapter13/animations_and_movies.html), [Dune – Types](http://www.wiley.com/college/strahler/0471480533/animations/ch19_animations/animation4.html)
**E**
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**F**
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Resource Page: <http://webs.cmich.edu/resgi>