

Education Resources Network: Search Teaching Media

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NOAA Data Access

National Oceanic and Atmospheric Administration (NOAA)

Link: <https://www.ncdc.noaa.gov/data-access>

Resource Type: *Data Sets*

NCEI is the world's largest provider of weather and climate data. Land-based, marine, model, radar, weather balloon, satellite, and paleoclimatic are just a few of the types of datasets available. Detailed descriptions of the products available.

Tags: severe weather, weather, weather hazards, atmosphere, atmospheric science, geoscience, earth science, noaa, 9-12, high school, meteorology

Earth Science World Image Bank: Hail Storms (PDF)

American Geosciences Institute (AGI)

Link: https://www.americangeosciences.org/sites/default/files/AGI_K5geo_esi_weather_Ha...

Resource Type: *Image Collections*

A curated collection of hail storm images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download the PowerPoint presentation version of this file using this [link](#).

Tags: education, k-5 geosource, weather, severe weather, weather hazards, k-3, k-4, k-5, elementary school, ice, meteorology, atmosphere, atmospheric science, agi

Earth Science World Image Bank: Hurricanes (PDF)

American Geosciences Institute (AGI)

Link: https://www.americangeosciences.org/sites/default/files/AGI_K5geo_esi_weather_Hu...

Resource Type: *Image Collections*

A curated collection of hurricane images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download the PowerPoint presentation version of this file using this [link](#).

Tags: education, k-5 geosource, weather, severe weather, weather hazards, hurricane, k-3, k-4, k-5, elementary school, oceans, meteorology, atmosphere, atmospheric science, agi

Earth Science World Image Bank: Ice Storms (PDF)

American Geosciences Institute (AGI)

Link: https://www.americangeosciences.org/sites/default/files/AGI_K5geo_esi_weather_Ic...

Resource Type: *Image Collections*

A curated collection of ice storm images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download the PowerPoint presentation version of this file using this [link](#).

Tags: education, k-5 geosource, weather, severe weather, ice, weather hazards, k-3, k-4, k-5, elementary school, meteorology, atmosphere, atmospheric science, agi, water

Earth Science World Image Bank: Tornadoes (PDF)

American Geosciences Institute (AGI)

Link: https://www.americangeosciences.org/sites/default/files/AGI_K5geo_esi_weather_To...

Resource Type: *Image Collections*

A curated collection of tornado images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download the PowerPoint presentation version of this file using this [link](#).

Tags: education, k-5 geosource, weather, severe weather, weather hazards, tornado, k-3, k-4, k-5, elementary school, meteorology, atmosphere, atmospheric science, hazards, agi, windstorms, wind, earth, earth science

Earth Science World Image Bank: Thunderstorms and Lightning (PDF)

American Geosciences Institute (AGI)

Link: https://www.americangeosciences.org/sites/default/files/AGI_K5geo_esi_weather_Ts...

Resource Type: *Image Collections*

A curated collection of thunderstorm and lightning images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download the PowerPoint presentation version of this file using this ...

Tags: education, k-5 geosource, weather, severe weather, weather hazards, k-3, k-4, k-5, elementary school, meteorology, atmosphere, atmospheric science, agi

Storm Blog

Mike Olbinski

Link: <http://www.mikeolbinski.com/storm-blog/>

Resource Type: *Image Collections*

This website has amazing pictures of storms and nature captured by Mike Olbinski.

Tags: weather, severe weather, weather hazards, meteorology, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school, atmosphere, atmospheric science

NOAA nowCOAST

National Oceanic and Atmospheric Administration (NOAA)

Link: <https://nowcoast.noaa.gov/>

Resource Type: *Maps and Visualizations*

This site teaches students about Hurricanes, winter storms, tornados, thunder and lightning and floods. This site also contains activities that teachers can use with their students.

Tags: noaa, coastal systems, oceans, water, k-5 geosource, hurricane, flood, tornado, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school, hazards, natural hazards, weather hazards

Wundermap

Weather Underground (Wunderground)

Link: <https://www.wunderground.com/wundermap>

Resource Type: *Maps and Visualizations*

The Wundermap from Weather Underground (Wunderground) gives weather data in a GIS interface. Use different overlays like radar, fronts, satellite data, and webcam images over an area of your choosing.

Tags: severe weather, weather, weather hazards, earth, meteorology, atmosphere, data, atmospheric science, mapping, earth science, geoscience, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

How a hurricane is born - The Science of Superstorms

BBC Worldwide via YouTube

Link: <https://www.youtube.com/watch?v=4f45jA5UxB0>

Resource Type: *Videos or Animations*

A fascinating look at how a little girl walking in the sand of the African desert could cause a hurricane 4000 miles away in the USA. Great video from BBC show, the Science of Superstorms. Contains some scenes that viewers may find upsetting.

Tags: hurricane, severe weather, weather hazards, 6-8, 9-12, middle school, high school

Hurricane Sandy- October 2012

National Association of Geoscience Teachers (NAGT)

Link: <https://serc.carleton.edu/NAGTWorkshops/hazards/events/sandy2012.html>

Resource Type: *Videos or Animations*

Sandy Storm resources in one place: images, visualizations, animations, and more. Includes satellite imagery, GIS data, Crisis information, and wind maps.

Tags: hurricane, united states, nasa, noaa, severe weather, weather hazards, new york, coasts, coastal systems, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

Hurricane Multimedia Gallery

National Aeronautics and Space Administration (NASA)

Link: https://www.nasa.gov/vision/earth/lookingatearth/hurricane_multimedia.html

Resource Type: *Videos or Animations*

From hot towers to phytoplankton blooms, NASA's cutting-edge hurricane research has been revealing never-before-seen aspects of these giant storms for over a decade. The past three years have seen great progress in the areas of intensity monitoring and 3-D modeling of hurricanes. In 2006,...

Tags: hurricane, nasa, severe weather, weather hazards, oceans, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

A Year of Weather 2013

European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT)

Link: <https://www.youtube.com/watch?v=m2Gy8V0Dv78>

Resource Type: *Videos or Animations*

This visualization, comprised of imagery from the geostationary satellites of EUMETSAT, NOAA, and the MA, shows an entire year of weather across the globe during 2013, with audio from Mark Higgins, Training Officer at EUMETSAT. The satellite data is superimposed over NASA's "Blue Marble Next..."

Tags: earth, meteorology, weather, nasa, noaa, data, atmosphere, atmospheric science, severe weather, weather hazards, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

Animations for Weather

NASA, NOAA

Link: <https://scijinks.gov/menu/games/weather/>

Resource Type: *Videos or Animations*

Interactive games and simulations, all having to do with weather.

Tags: weather, activities, severe weather, weather hazards, meteorology, nasa, noaa, k-5 geosource, k-3, k-4, k-5, elementary school

Videos on Weather

NASA, NOAA

Link: <https://scijinks.gov/menu/media/weather/>

Resource Type: *Videos or Animations*

Gallery of videos exploring weather and weather-monitoring satellites.

Tags: weather, severe weather, weather hazards, meteorology, nasa, noaa, k-5 geosource, k-3, k-4, k-5, elementary school

Viral Video Captures Insane Hail Storm In Oklahoma City

LittleThings

Link: https://www.littlethings.com/hail-storm/?utm_source=LTcom&utm_medium=Facebook&utm_campaign=HailStorm

Resource Type: *Videos or Animations*

In May 2010, YouTube user "beatlesfanxxl" uploaded a jaw-dropping moment that went viral with nearly seven million views. It was late spring in Oklahoma City, and he and his family were watching a nasty storm pass through. You can only imagine their shock and horror when suddenly the dark,...

Tags: ice, severe weather, weather hazards, video, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

Magma Viscosity, Gas Content & Milkshakes

GeoScience Videos

Link: <https://www.youtube.com/watch?v=2iaqE0xmsHI&feature=youtu.be>

Resource Type: *Videos or Animations*

This video describes the principle control on the violence of volcanic eruptions. We define the term viscosity and show examples of everyday materials with different viscosity. Next we are splattered with soda and milkshake to illustrate how gases can drive volcanic eruptions (the sacrifices we...)

Tags: volcano, volcanology, natural hazards, hazards, weather hazards, geoscience, geology, 6-8, 9-12, middle school, high school

This is Your Brain on Extreme Weather

MinuteEarth

Link: <https://www.youtube.com/watch?v=cJCczZd7HVk&feature=youtu.be>

Resource Type: *Videos or Animations*

Learn about the extreme weather patterns the world has been experiencing. Decide whether you think it's false advertisement or the truth.

Tags: severe weather, weather, weather hazards, meteorology, earth, climate change, geoscience, 6-8, 9-12, middle school, high school

Timelapse View of Lake Erie During a Massive Snowstorm

Wimp.com

Link: <https://www.wimp.com/timelapse-view-of-lake-erie-during-a-massive-snowstorm/>

Resource Type: *Videos or Animations*

From his office window in downtown Buffalo, New York, attorney Alfonzo Cutaia captures this cloud formation above Lake Erie. With nearly five feet of snow pummeling the Buffalo area, this impressive timelapse shows the ominous power of the elements.

Tags: atmosphere, new york, meteorology, weather, weather hazards, snow, video, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

AERMETRY - Storm Cloud Time Lapse

Nicolaus Wegner

Link: <https://vimeo.com/121810024>

Resource Type: *Videos or Animations*

Photosensitive seizure warning - Look away if things get too overwhelming. Accumulated a great deal of severe weather and cloud related time lapse material over the past couple of years. Figures it might be interesting to experiment with the various shapes these storms produce when mirrored....

Tags: meteorology, atmosphere, atmospheric science, severe weather, weather, weather hazards, video, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

A Year of Weather 2015

European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT)

Link: <https://www.youtube.com/watch?v=i4mBYwBNULk>

Resource Type: *Videos or Animations*

This visualization, comprised of imagery from the geostationary satellites of EUMETSAT, NOAA and the JMA, shows an entire year of weather across the globe during 2015, with audio commentary from Mark Higgins, Training Manager at EUMETSAT. The visualization has been produced by EUMETSAT's data...

Tags: [severe weather](#), [weather hazards](#), [meteorology](#), [weather](#), [atmosphere](#), [atmospheric science](#), [data](#), [video](#), [nasa](#), [noaa](#), [earth](#), [earth science](#), [geoscience](#), [k-5 geosource](#), [k-3](#), [k-4](#), [k-5](#), [k-6](#), [k-8](#), [k-9](#), [k-12](#), [elementary school](#), [middle school](#), [high school](#)

A supercell near Booker, Texas

Mike Olbinski Photography

Link: <https://vimeo.com/67995158>

Resource Type: *Videos or Animations*

Video of a supercell near Booker, Texas.

Tags: [severe weather](#), [tornado](#), [weather](#), [weather hazards](#), [atmosphere](#), [atmospheric science](#), [meteorology](#), [video](#), [k-5 geosource](#), [k-3](#), [k-4](#), [k-5](#), [k-6](#), [k-8](#), [k-9](#), [k-12](#), [6-8](#), [9-12](#), [elementary school](#), [middle school](#), [high school](#)

The most lightning-struck place on Earth

TED-Ed

Link: <https://www.youtube.com/watch?v=doy2BsHc-44&t=35s>

Resource Type: *Videos or Animations*

Lake Maracaibo is the stormiest place on the planet. Thunderstorms rage above this massive body of water for up to 200 days of the year, with each ear-splitting event lasting for several hours. But why? Graeme Anderson lists the factors that create Lake Maracaibo's seemingly everlasting storms...

Tags: [severe weather](#), [weather](#), [weather hazards](#), [meteorology](#), [atmosphere](#), [atmospheric science](#), [video](#), [k-5 geosource](#), [k-3](#), [k-4](#), [k-5](#), [k-6](#), [k-8](#), [k-9](#), [k-12](#), [6-8](#), [9-12](#), [elementary school](#), [middle school](#), [high school](#)

How do tornadoes form?

TED-Ed

Link: https://www.youtube.com/watch?v=lmWh9jV_1ac&t=9s

Resource Type: *Videos or Animations*

Tornadoes are the most violent storms on Earth, with wind velocities that can exceed 200 miles per hour. How do these terrifying cyclones form? Meteorologist James Spann sheds light on the lifespan of tornadoes as they go from supercell thunderstorms to terrible twisters before eventually...

Tags: [tornado](#), [severe weather](#), [weather hazards](#), [hazards](#), [weather](#), [meteorology](#), [atmospheric science](#), [6-8](#), [9-12](#), [middle school](#), [high school](#)

How to track a tornado

TED-Ed

Link: https://www.youtube.com/watch?v=qhbX_BPrJwU

Resource Type: *Videos or Animations*

Atmospheric scientist Karen Kosiba studies how tornadoes form and do damage. Getting measurements near the surface of these twisters is difficult, though, and driving into them is a practice mostly reserved for the big screen. In this TEDYouth Talk, Kosiba describes how she and her team use...

Tags: [tornado](#), [atmosphere](#), [atmospheric science](#), [meteorology](#), [weather](#), [severe weather](#), [weather hazards](#), [video](#), [model](#), [6-8](#), [9-12](#), [middle school](#), [high school](#)

Seasonal Science: Hurricane

UNC-TV, PBS LearningMedia

Link: <https://www.pbslearningmedia.org/resource/5d80ded8-c58a-45a4-9b77-764909de95f1/s...>

Resource Type: *Videos or Animations*

Why do hurricanes get their own season? The reason for the season is because of the three requirements for a hurricane to form. Precursor storms off the coast of Africa that travel on currents, warm ocean temperatures, and low wind shear due to the location of the jet stream are only available...

Tags: severe weather, weather hazards, weather, meteorology, hurricane, oceans, video, 6-8, 9-12, middle school, high school

Tornadoes 101

National Geographic

Link: <https://www.youtube.com/watch?v=iMWOYPaQx0Q&index=24&list=PLivjPDlt6ApRpidjp1zjR...>

Resource Type: *Videos or Animations*

Tornadoes, nearly three-quarters of which occur within the US, are unpredictable and can cause massive damage. New tools and data are helping scientists learn more about when they might form and what paths they might take.

Tags: video, tornado, windstorms, weather, severe weather, weather hazards, meteorology, atmosphere, atmospheric science, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

El Niño 101

National Geographic

Link: <https://www.youtube.com/watch?v=d6s0T0m3F8s&index=28&list=PLivjPDlt6ApRpidjp1zjR...>

Resource Type: *Videos or Animations*

El Niño is a series of complex weather patterns that occurs every two to seven years. It causes drastic changes in weather that can lead to billions of dollars in damages, high death tolls, and disease. Find out what causes El Niño, how it can affect you, and why it is so hard to predict it.

Tags: weather, severe weather, atmospheric science, atmosphere, meteorology, oceans, natural hazards, weather hazards, video, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

Floods 101

National Geographic

Link: <https://www.youtube.com/watch?v=oDK0FNisfDg&index=34&list=PLivjPDlt6ApRpidjp1zjR...>

Resource Type: *Videos or Animations*

Explore and experience the forces that shape the world around us. No natural disaster in America has caused more death and destruction than floods.

Tags: flood, floodplain, water, hazards, weather hazards, video, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

Hurricanes 101

National Geographic

Link: <https://www.youtube.com/watch?v=IEtxRd9y1c4&list=PLivjPDlt6ApRpidjp1zjROOCKru-89...>

Resource Type: *Videos or Animations*

Explore and experience the forces that shape the world around us. Find out how hurricanes can be so destructive.

Tags: hurricane, severe weather, weather, weather hazards, atmospheric science, atmosphere, meteorology, hazards, stormwater, water, video, k-5 geosource, k-3, k-4, k-5, k-6, k-8, k-9, k-12, 6-8, 9-12, elementary school, middle school, high school

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Videos or Animations

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The Paleontological Society

Palaeocast, funded in part by the Paleontological Society, is a free web series exploring the fossil record and the evolution of life on earth.

Popular Resources

Videos or Animations

[Faces of Earth, Part 2: Shaping the Planet](#)

American Geosciences Institute (AGI)

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[Earth Science World Image Bank](#)

Earth Science World Image Bank (ESWIB)

Maps and Visualizations

[Earth: a global map of wind, weather, and ocean conditions](#)

EarthWindMap

Videos or Animations

[El Nino and La Nina Animation](#)

Prentice Hall, Inc.

Videos or Animations

[Why is it Hot Underground?](#)

MinuteEarth

About the Education Resources Network

The Education Resources Network aggregates geoscience education resources from a variety of providers. The goal is to provide visitors with the widest possible collection of curricula, classroom activities, teacher professional development opportunities, science education standards, virtual field trips, teaching ancillaries and much more.

We are continually adding new content, so please check back frequently.

We encourage you to review our collections, [suggest other resources](#), and [let us know](#) when items are out of date or problematic for other reasons.