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| ECOSYSTEMS, BIOMES, & HABITAT RESEARCH |
| Missouri Botanical Garden |
| Navigate through [The Missouri Botanical Garden](http://www.mbgnet.net/index.html) to learn about plants, animals, environmental concerns, and other important topics in each ecosystem. Choose from: [biomes of the world](http://www.mbgnet.net/sets/index.htm), [freshwater ecosystems](http://www.mbgnet.net/fresh/index.htm), and [marine ecosystems](http://www.mbgnet.net/salt/index.htm). Or check each one out here:  [Rainforest](http://www.mbgnet.net/sets/rforest/index.htm)  [Tundra](http://www.mbgnet.net/sets/tundra/index.htm)  [Taiga](http://www.mbgnet.net/sets/taiga/index.htm)  Desert  [Temperate](http://www.mbgnet.net/sets/temp/index.htm)  [Grasslands](http://www.mbgnet.net/sets/grasslnd/index.htm)  [Rivers and Streams](http://www.mbgnet.net/fresh/rivers/index.htm)  [Ponds and Lakes](http://www.mbgnet.net/fresh/lakes/index.htm)  [Wetlands](http://www.mbgnet.net/fresh/wetlands/index.htm)  [Shorelines](http://www.mbgnet.net/salt/sandy/index.htm)  [Temperate Oceans](http://www.mbgnet.net/salt/oceans/index.htm)  [Tropical Oceans](http://www.mbgnet.net/salt/coral/index.htm) |
| Blue Planet Biomes |
| Play with the interactive map showing the locations of biomes around the world on the [Blue Planet Biomes](https://www.blueplanetbiomes.org/) website. Then choose the [Tundra](https://www.blueplanetbiomes.org/tundra.php), [Taiga](https://www.blueplanetbiomes.org/taiga.php), [Grasslands](https://www.blueplanetbiomes.org/grasslands.php), [Deciduous Forest](https://www.blueplanetbiomes.org/deciduous_forest.php), [Savanna](https://www.blueplanetbiomes.org/savanna.php), [Chaparral](https://www.blueplanetbiomes.org/chaparral.php), [Rainforest](https://www.blueplanetbiomes.org/rainforest.php), [Desert](https://www.blueplanetbiomes.org/desert.php), or [Alpine](https://www.blueplanetbiomes.org/alpine.php) to learn about important roles plants, animals, and climate play within those biomes. |
| Kids Do Ecology |
| Explore [The World Biomes page](http://kids.nceas.ucsb.edu/biomes/index.html) found on the [Kids Do Ecology At Home](http://kids.nceas.ucsb.edu/index.html) website to learn more about each location, the weather, the plants and animals that live in each biome, and how people live and interact with their environment.  Or go directly to the [aquatic](http://kids.nceas.ucsb.edu/biomes/index.html) or [terrestrial biome](http://kids.nceas.ucsb.edu/biomes/index.html) you want to learn more about:  [Freshwater](http://kids.nceas.ucsb.edu/biomes/freshwater.html)  [Freshwater wetlands](http://kids.nceas.ucsb.edu/biomes/freshwaterwetlands.html)  [Marine](http://kids.nceas.ucsb.edu/biomes/marine.html)  [Coral reef](http://kids.nceas.ucsb.edu/biomes/coralreef.html)  [Estuaries](http://kids.nceas.ucsb.edu/biomes/estuaries.html)  [Tundra](http://kids.nceas.ucsb.edu/biomes/tundra.html)  [Rainforest](http://kids.nceas.ucsb.edu/biomes/rainforest.html)  [Savanna](http://kids.nceas.ucsb.edu/biomes/savanna.html)  [Taiga](http://kids.nceas.ucsb.edu/biomes/taiga.html)  [Temperate forest](http://kids.nceas.ucsb.edu/biomes/temperateforest.html)  [Temperate grassland](http://kids.nceas.ucsb.edu/biomes/grassland.html)  [Alpine](http://kids.nceas.ucsb.edu/biomes/alpine.html)  [Chaparral](http://kids.nceas.ucsb.edu/biomes/chaparral.html)  [Desert](http://kids.nceas.ucsb.edu/biomes/desert.html) |
| Scholastic Study Jams |
| Explore [Scholastic Study Jams](http://studyjams.scholastic.com/studyjams/jams/science/index.htm) to learn about Ecosystems. Watch videos and read slideshows about ecosystems at these links: [Ecosystems](http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/ecosystems.htm), [The Kingdoms of Life](http://studyjams.scholastic.com/studyjams/jams/science/animals/kingdoms-of-life.htm), [Photosynthesis](http://studyjams.scholastic.com/studyjams/jams/science/plants/photosynthesis.htm), [Aquatic Ecosystems](http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/aquatic-ecosystems.htm), [Changes in Ecosystems](http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/changes-ecosystems.htm), [Biomes](http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/biomes.htm), [Food Chains](http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/food-chains.htm), [Food Webs](http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/food-webs.htm), and Population Growth. |
| DK Find out! |
| Use the interactive diagrams on [DKfindout!](https://www.dkfindout.com/us/human-body/) to see what plants and animals make up different ecosystems. Be sure to click the pulsing points within the diagrams to learn more! Use the search bar or the [Habitats and Ecosystems Home Page](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/) to explore environments like the [African Savanna](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/african-savanna/), [Amazon Rainforest](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/amazon-rain-forest/), [American desert,](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/american-desert/) [Antarctica](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/antarctica/), [Arctic](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/arctic/), c[oral reef](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/coral-reef/)s, [land habitats](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/land-habitats/), r[ainforest layers](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/rain-forest-layers/), [rotting log](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/rotting-log/)s, t[ide pool](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/tide-pool/)s, [Tundra](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/tundra/), and [Wetlands](https://www.dkfindout.com/us/animals-and-nature/habitats-and-ecosystems/wetlands/). |
| Climate Kids |
| Use the navigation bar at the top of the [Climate Kids](https://climatekids.nasa.gov/) page and choose the [Plants & Animals](https://climatekids.nasa.gov/menu/plants-and-animals/) tab to read [10 Interesting Things About Ecosystems](https://climatekids.nasa.gov/10-things-ecosystems/), watch [What is Happening in the Ocean?](https://climatekids.nasa.gov/ocean/), play the [Coral Bleaching](https://climatekids.nasa.gov/coral-bleaching/) game, and [Make an Ocean Ecosystem Dessert](https://climatekids.nasa.gov/ocean-ecosystem/). You can also read interviews with real scientists, [like this Earth Scientist who studies glaciers](https://climatekids.nasa.gov/career-earth-scientist/)! |
| Ask a Biologist |
| Go to [Ask a Biologist](https://askabiologist.asu.edu/explore/biomes) and use the navigation bar on the right to explore the [Tropical Rainforest](https://askabiologist.asu.edu/explore/rainforest), [Temperate Forest](https://askabiologist.asu.edu/explore/temperate-forest), [Desert](https://askabiologist.asu.edu/explore/desert), [Tundra](https://askabiologist.asu.edu/explore/tundra), [Taiga](https://askabiologist.asu.edu/explore/taiga), [Grassland](https://askabiologist.asu.edu/explore/grassland), [Savanna](https://askabiologist.asu.edu/explore/savanna), [Freshwater](https://askabiologist.asu.edu/explore/falling-freshwater), and [Marine](https://askabiologist.asu.edu/explore/marine) ecosystems. |
| Ask a Biologist Virtual Reality |
| Transport yourself into the desert in the southwestern United States, the rainforest in Panama, or the temperate forests in Arizona and Colorado using [Explore Biomes in Virtual Reality](https://askabiologist.asu.edu/explore/Virtual-360-Biomes) and literally see (360 degrees!) and hear the sounds of the biome to experience what it is like. Be sure to click on the highlighted points to get more info! |
| Ask a Biologist Podcasts/Transcripts |
| [Listen to podcasts](https://askabiologist.asu.edu/listen-and-watch) where biologists share their new discoveries. A few of the podcast episodes that you may be interested in [Ocean Winds and Climate](https://askabiologist.asu.edu/explore/ocean-winds-and-climate),  [Keeping Your Cool - Thermoregulation](https://askabiologist.asu.edu/podcasts/keeping-your-cool-thermoregulation), and [Mystery of the Dying Coral Reefs](https://askabiologist.asu.edu/podcasts/mystery-dying-coral-reefs). There are currently over 90 episodes to choose from and each show includes the written transcript that you can use for your research notes! |
| Games and Other Interactives |
| Build any of the 6 world biomes (Tundra, Taiga, Deciduous Forest, Tropical Rainforest, Grass Savanna, and Desert) in [Build a Biome](https://switchzoo.com/games/buildabiome.htm). Choose the appropriate plants, animals, amount of yearly rainfall, and temperature range to "build" the biome and read more about what organisms can survive there.  Test your knowledge of where biomes are located in this [Biomes Puzzle](http://planeta42.com/geography/biomepuzzle/). Drag ten biome images to the appropriate locations on the map.  Help a family reduce their greenhouse gas emissions by making some difficult decisions about their energy use, transportation choices, and food and waste choices in the simulation, [Energy Choices and Climate Change](https://scied.ucar.edu/energy-choices-and-climate-change).  [OFFSET!](https://climatekids.nasa.gov/offset/) is a game that challenges you to slow the pace of global warming!  Play [Power Up!](https://climatekids.nasa.gov/power-up/) Capture energy from the wind and the sun by manipulating a wind turbine and solar panels. Can you produce enough electricity to run a town?  In [The Climate Time Machine](https://climatekids.nasa.gov/time-machine/) simulation, see how climate-related changes have already impacted the Earth and how it could potentially look in the future. Pick a topic like sea ice, sea level, carbon emissions, or average global temperature, slide the time backwards and forwards, and watch as sea levels rise, sea ice melts, and carbon dioxide and temperature go up. |