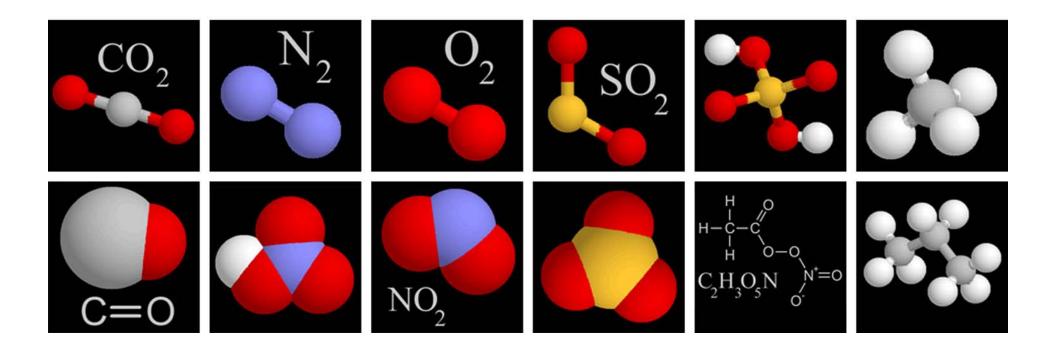
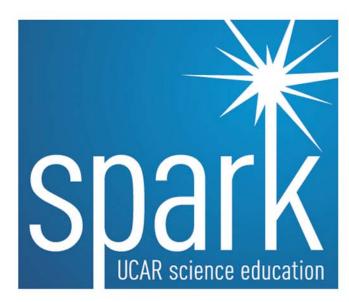
Games and Simulations for Climate, Weather and Atmospheric Science Education

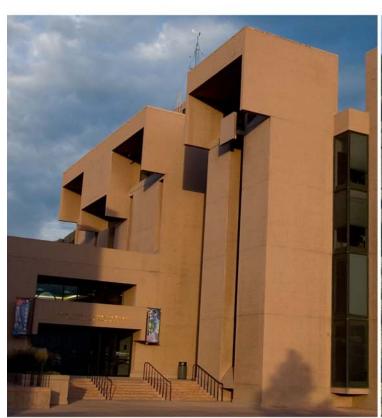


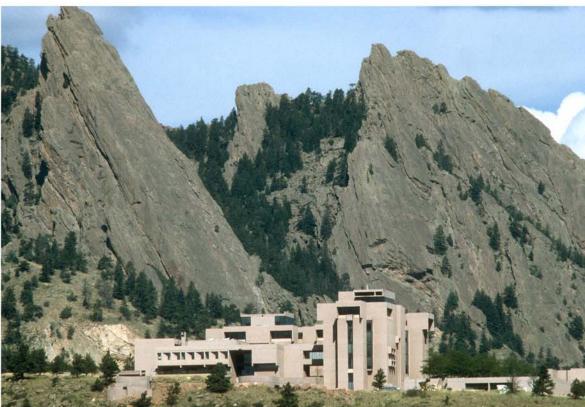
Randy Russell rrussell@ucar.edu



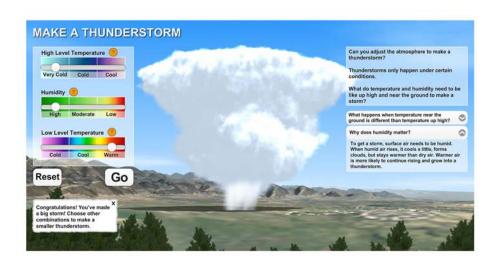


Spark is the K-12 Education Group at NCAR in Boulder



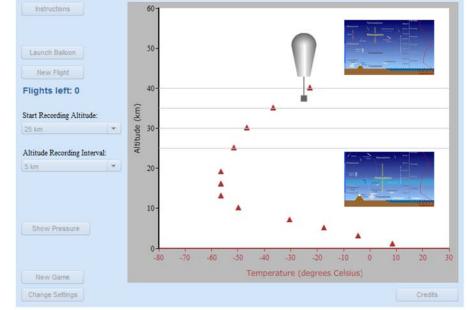


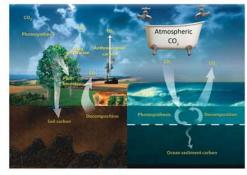
spark.ucar.edu

















Review/List of Games and Simulations covering Weather, Climate and Atmospheric Science Topics

Links to numerous games, simulations and virtual labs from many different sources

- think of it as a "one-stop shopping" compendium or like a lit review or consumer reports listing
- each entry includes a screenshot, brief description, link, source, and cost (if any... most are free!)
- coming soon: sorting, rating, and commenting features

Example entries:

NOAA Games "Planet Arcade"



Description: a large collection (25 items as of January 2013) of games and puzzles from the U.S. National Oceanic and Atmospheric Administration (NOAA)

URL: games.noaa.gov

Creators: NOAA Ocean Service Education

Cost: free

Disaster Dynamics: Hurricane Landfall



Description: role-playing strategy game teaches about interactions between natural hazards and human decisions in a Gulf Coast barrier island community.

URL: www.dd.ucar.edu

Creators: National Center for Atmospheric Research (NCAR)

Cost: free

MANY more available online, including:



Bill Nye's Climate Lab



BYU Virtual Chemlab



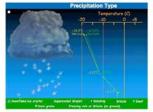
EdGCM



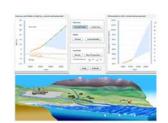
COMET/MetEd



ExploreLearning Gizmos



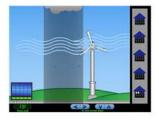
WeatherWise



Global Carbon Budget app



PhET



NASA Climate Kids



WikiWatershed



EPA Recycle City

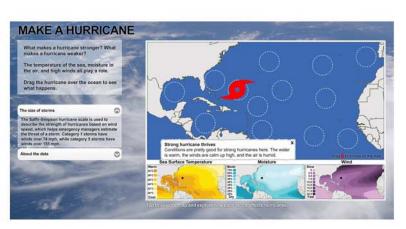


Jason Project: Resilient Planet

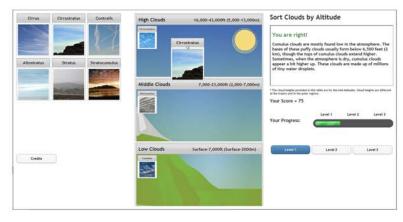


Interactives in use on large touchscreen displays in public visitor exhibits in NCAR's Mesa Lab in Boulder









spark.ucar.edu/interactives spark.ucar.edu/games