

A STEM in the Park

Take Home Activity

STEM

in the **PARK**™

Science, Technology, Engineering, and Mathematics

Go Outside and Look at the Sky!

What You Need

- Eyes
- Mobile device with GLOBE Observer App
- Cloud Chart optional



What To Do

1. Download the GLOBE Observer App onto a mobile device.
2. The GLOBE Observer app provides step-by-step instructions for each requested measurement. Follow the guide through a cloud key to identify cloud types.
3. Record how cloudy the sky is.
4. Take photos of the sky and submit them to GLOBE along with your location.
5. Additional information such as a training overview and background scientific information is available on the app and on the web: <http://observer.globe.gov/training/clouds>

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The Science

How are GLOBE Observer data used?

- GLOBE Observer data can be combined with other GLOBE data to support research led by students and professional scientists related to Atmosphere, Biosphere, Hydrosphere, and Soil (Pedosphere).
- Student Research Examples: Past examples of GLOBE data include research on precipitation, phenology, climate, and mosquitoes and represent every region in the program. Examples can be found on **www.globe.gov**
- Scientist blogs using student data: Scientists involved in the program give reports back to the community on the use of data through blogs. An example is the blog by Dr. Kevin Czajkowski from THE UNIVERSITY OF TOLEDO on his surface temperature field campaign found under the Scientists' Network Blog on **www.globe.gov**
- Publications by Scientists: Over the years, scientists have used the data in their research. Publications by scientists using the data can be found at **www.globe.gov**

Everyone can access data in the GLOBE data and information system by visiting **www.globe.gov**

Caution: DO NOT LOOK DIRECTLY AT THE SUN!

This activity is brought to you by GLOBE Mission EARTH



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