



Become a GLOBE Educator



By participating in The GLOBE Program, educators can connect their students to an international network of students, teachers and scientists, learning more about our shared environment. For a school to fully participate in The GLOBE Program, at least one educator must be trained in GLOBE environmental observations (called ‘protocols’) and associated educational activities. Training is key to gaining the knowledge and skills required to lead students in implementing GLOBE in a school setting.

Educators have the option to either attend an in-person workshop (if available in their area) or learning about the protocols online (using the GLOBE e-training courses). In either situation, teachers receive:

- ▶ Exposure to data collection techniques following GLOBE science protocols;
- ▶ A conceptual framework for helping students develop and answer scientific research questions;
- ▶ The tools to work with their students to collect environmental observations;
- ▶ Ability to report these observations through the GLOBE website and to access the science database to search for data from around the world; and,
- ▶ Training on how to produce maps and time series plots to visualize data.

How are GLOBE measurements collected?

Educators learn to conduct the GLOBE scientific measurement protocols and to implement learning activities in their classrooms. Students use the protocols to collect consistent, scientifically valid measurements and then upload these data to the GLOBE database. GLOBE has a mobile app to simplify the process of field data collection and entry.

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THE GLOBE PROGRAM



How is the GLOBE measurement process standardized?

Educators show their students how to collect data according to scientific protocols using instruments, which meet specifications written by scientists. The instrument specifications help to ensure accurate and consistent data from around the world. Students take the lead in calibrating instruments, collecting and recording data and entering data into the GLOBE database. These data are then used by students to conduct local research projects as well as by professional scientists conducting Earth Science research.

Your Students Will Learn the Value of Data Collection and Research

Data collected by GLOBE students help to tell a story of the environmental conditions at a moment in time. Data are as important now as they were in the day they were collected and are used by students with scientists the world over in research about Earth. With GLOBE, students learn not just to think like scientists; GLOBE students are scientists, making valuable contributions to our understanding of our home planet.

How are GLOBE data used?

GLOBE data can be used to support research led by students and professional scientists related to Atmosphere, Biosphere, Hydrosphere, and Soil (Pedosphere).

- ▶ **Student Research Examples:** These 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 student data through blogs. An example is the blog by Dr. Kevin Czajkowski on his surface temperature field campaign found under The GLOBE International STEM Network (GISN) Blog on www.globe.gov.
- ▶ **Publications by Scientists:** Over the years, scientists have used the data in their research. Publications by scientists using data can be found at www.globe.gov.

Who Can Access GLOBE data?

Everyone can access GLOBE data in the GLOBE Data and Information System by visiting www.globe.gov.

If you have questions about how to become a GLOBE educator, simply contact the GLOBE Community Support Team at globehelp@ucar.edu.