



An exciting, worldwide, hands-on education and science program

About GLOBE

GLOBE is a worldwide, hands-on, primary and secondary school-based Earth science and education program. For students, GLOBE provides the opportunity to learn by taking scientifically valid environmental measurements, reporting their results, and then using their data, and data from other schools, to collaborate with scientists and students worldwide. Over 24,000 GLOBE-trained teachers in more than 14,000 schools around the world are helping students explore and understand their local, regional, and global environment through scientific investigation. These numbers will continue to grow as the program expands.

GLOBE is a cooperative effort of schools and scientists, managed by the University Corporation for Atmospheric Research (UCAR) in partnership with Colorado State University (CSU) and supported by the National Aeronautics and Space Administration (NASA), the National Science Foundation (NSF), and the U.S. Department of State. The program in the U.S. is organized in partnership with colleges and universities, state and local school systems, and non-government organizations. Internationally, GLOBE is a partnership between the U. S. and over 100 other countries.

Education:

Teachers attend a GLOBE training workshop (see reverse side for more information) before beginning GLOBE in their classrooms. At these workshops, they get hands-on instruction on how to take the GLOBE measurements and how to report the data. Upon completion of this training, teachers are given a GLOBE Teacher's Guide that they can take back to school with them.

The Program's highly regarded educational activities and materials include:

- Lesson Plans
- Classroom Implementation Ideas
- Training Support
- Evaluation Strategies

The Educators' Corner of the GLOBE website allows teachers to share ideas with one another, see how GLOBE aligns with state and national standards, study approaches on implementing GLOBE in the classroom, and more.





GLOBE Data:

The GLOBE database currently consists of over ten million environmental observations that have been collected and reported by GLOBE students via the Web or via email. GLOBE measurements provide important data that is sometimes not otherwise available, and sometimes necessary to help scientists validate data collected from other sources such as satellites. Once submitted, these data are publicly available on the GLOBE website, may be displayed graphically with GLOBE visualization tools, and are used in research by students and scientists.

Science:

The GLOBE Protocols cover five main Earth science investigation areas:

- Atmosphere (air temperature, clouds, humidity, precipitation)
- Hydrology (lakes, streams, rivers)
- Soils (moisture, temperature, general characteristics)
- Land Cover/Biology
- Phenology (study of seasonal change)

Schools can focus on all of these areas or just a subset such as cloud observations and land cover measurements.

An important aspect of the program is that students are encouraged to communicate directly with the GLOBE scientists to better understand the importance and impact of their data. At Scientists' Corner on the GLOBE website, GLOBE scientists discuss with students the patterns they see in the students' data, answer commonly asked questions, and list scientific publications relevant to GLOBE.

For more information, contact:

GLOBE Help Desk

Phone: (800) 858-9947

Email: help@globe.gov

Web: www.globe.gov/help

For a current listing of GLOBE teacher training workshops available in your area, see: www.globe.gov/workshop

