



The GLOBE Program

*Global Learning and Observations to Benefit the Environment
An International Environmental Science and Education Program*

GLOBE is a hands-on, school and community-based science and education program that unites students, teachers, and scientists in study and research about the dynamics of the Earth's environment. Over a million GLOBE students in more than 22,000 schools located in 110 countries have taken important environmental measurements. Their data are used in their own research activities as well as by scientists around the world. More than 49,000 teachers have attended GLOBE professional development activities.

The goals of the GLOBE Program are to:

- Improve student achievement across the curriculum with a focus on student research in environmental and Earth system science;
- Enhance awareness and support activities of individuals throughout the world to benefit the environment;
- Contribute to scientific understanding of Earth as a system; and
- Inspire the next generation of global scientists

“GLOBE is the quintessentially ideal program for involving kids in science.”

Nobel Laureate Dr. Leon Lederman.

The GLOBE Program is implemented through a worldwide network of primary and secondary schools. GLOBE students learn about their local environment by:

- Taking environmental measurements at or near their schools using GLOBE measurement protocols and appropriate, calibrated measurement equipment.
- Reporting their observations to the GLOBE database via the GLOBE Web site or email.
- Using tools on the GLOBE Web site to create maps and graphs from their own data, to analyze GLOBE data sets, and to share their data with other schools around the world.
- Conducting real research in collaboration with scientists and other GLOBE students worldwide.

GLOBE students have reported over 19 million measurements in the areas of Atmosphere/Climate, Hydrology, Soils, Land Cover/Biology and Phenology. GLOBE improves student understanding by involving students in conducting real science – taking measurements, analyzing data, and participating in research collaborations with other students, as well as with scientists engaged in cutting-edge Earth Systems Science research.

Scientists and educators have developed environmental measurement protocols and educational materials as a resource for GLOBE teachers. Professional development workshops provide teachers with content information and pedagogical strategies to support student research.

Broad international participation is an integral part of the GLOBE Program. Bilateral agreements establish partnerships between the United States and its international partner countries, which are then responsible for designing program implementation in their own countries. Implementation in the United States depends upon the efforts of more than 100 state and local partner organizations. GLOBE is funded by the National Aeronautics and Space Administration (NASA), supported by the National Science Foundation (NSF) and the U.S. Department of State, and implemented through a cooperative agreement between NASA.

Visit the GLOBE Program at www.globe.gov

