



## About GLOBE

**Since the announcement** in 1994 and the launch in 1995, the Global Learning and Observations to Benefit the Environment (GLOBE) Program has been a leader as an international science and education program that connects a network of students, teachers, and scientists in order to better understand, sustain, and improve Earth's environment at local, regional, and global scales. With generations of students now having moved through and beyond The GLOBE Program, as well as the increasingly available information technology and tools enabling engagement with GLOBE resources anywhere and anytime, GLOBE is expanding to include citizen scientists while upholding its commitment to science education. By engaging teachers and students in authentic teaching and learning of Earth system science and interested citizens in observing the ever-changing environment, GLOBE continues its service to learners of all ages enthusiastic about scientific discovery locally and globally.

**Vision:** *A worldwide community of students, teachers, scientists, and citizens working together to better understand, sustain, and improve Earth's environment at local, regional, and global scales.*

**Mission:** *To promote the teaching and learning of science, enhance environmental literacy and stewardship, and promote scientific discovery.*

Since the launch of GLOBE in 1995, more than 130 million measurements have been contributed to the GLOBE science database, creating meaningful, standardized, research-quality data sets that can be used in support of student and professional scientific research. Students and teachers in more than 110 countries have participated in GLOBE.

**For more information, we invite you to visit [www.globe.gov](http://www.globe.gov)**



Supported by:



Implemented by:



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## Making Global Connections

### Connecting Global Earth System Science and Education Communities

The Global Learning and Observations to Benefit the Environment (GLOBE) Program connects students, teachers, scientists and citizens around the world to better understand, sustain, and improve Earth's environment on local, regional, and global scales.

### Helping Teachers Connect Students to Earth System Science

GLOBE provides training and professional development to a worldwide network of teachers and citizen scientists. The hands-on science research activities provide an innovative way for teachers to get students of all ages excited about Earth system science – and engaged in scientific discovery.

Currently, there are tens of thousands of GLOBE-trained teachers who implement GLOBE in their classrooms using GLOBE's inquiry-based science projects. GLOBE provides teachers with professional development opportunities, as well as continuing support from the GLOBE Community Support Team, the GLOBE International Scientists' Network, and the GLOBE Partner Network.

### Connecting Students to High-Caliber Scientific Research

GLOBE's scientific protocols are developed by scientists, tested by teachers, and executed by students – students who can then produce meaningful, standardized "science-grade" data that can be used in support of student scientific research in the four GLOBE spheres: Atmosphere, Biosphere, Hydrosphere, and Soil (Pedosphere). GLOBE improves student understanding by involving them in conducting real science and participating in research collaborations with other students and scientists. GLOBE science protocols and learning materials are designed to help students develop a wide range of skills, including critical thinking, scientific research methodology, data analysis, independent learning, and big picture thinking (taking local information and seeing global implications).

### Connecting to a Global Network of Scientists

The GLOBE international STEM Network (GISN) is a global community of scientists who connect with, and inspire, students and teachers around the world through such activities and endeavors as visiting a GLOBE school, judging student research at virtual science fairs, proposing field campaigns, and conducting scientific investigations with GLOBE data. The GISN hosts webinars that provide tools, as well as tips for interacting with teachers and students. Each relationship between a scientist and a GLOBE school is unique, and is determined by the scientist and the school.

### Promoting Life-long Engagement with Science

To promote environmental awareness, engage more citizens, and increase the amount of data available, GLOBE is becoming more inclusive by allowing data to be collected and entered via a new app called GLOBE Observer. Now, non-school based groups (scouts, etc.) and individuals (retirees, program alumni, etc.) can enter and view their data. This means that GLOBE now includes citizens from K-Gray.