

# Engage Students in Real-World Science with GLOBE



The GLOBE Program is a community of students, educators, scientists, and volunteer observers around the world. Together, we aim to understand and advance Earth system science through data collection and analysis.

GLOBE can give your students opportunities to:

- LEARN about interconnected Earth systems through hands-on activities and research
- CONTRIBUTE to a global database of observational Earth systems data
- DEVELOP valuable STEM (science, technology, engineering, and mathematics) and data literacy skills needed for tomorrow's workforce
- JOIN a global community of educators, students, and citizen scientists

## GLOBE promotes scientific thinking

Students from primary to post-secondary levels do real scientific research using GLOBE protocols developed by scientists and educators. Students collect real-time data in their local environments on topics such as soil, water, and air quality; mosquito larvae and habitats; clouds; trees; and more. Students also learn to use existing GLOBE data and data from other sources while taking part in the scientific process.

**With GLOBE, students learn not just to think like scientists but to BE scientists, making valuable contributions to Earth system science research!**

## WHY GLOBE?

- Easy to implement in the classroom or informal learning environment
- Supports inquiry-based and student-led learning
- Builds data literacy and STEM skills
- Connects students to a global science community



## How Do Students Benefit?

Through GLOBE's learning activities, students investigate their own questions about fundamental Earth systems, present what they learn to the GLOBE community, and build critical skills for the future STEM workforce.

## Learn More

Visit [GLOBE.gov](https://www.globe.gov) to sign up for the GLOBE newsletter, and explore the GLOBE community map to learn more about the program in your country. For additional assistance, please contact the GLOBE Implementation Office at [help@nasaglobe.org](mailto:help@nasaglobe.org).



# Do GLOBE, Do Science



## Benefits for students

**Students build critical thinking and STEM skills through hands-on science.** Through inquiry-based science projects, global measurement campaigns, and data challenges, students use the GLOBE measurement protocols to collect and submit environmental data. In doing so, they build data literacy, strengthen critical thinking and develop key STEM skills. Students are especially proud when the surface-based Clouds data they submit are compared with data from NASA, NOAA, and other international satellites — showing how their work contributes to global science efforts!

**Students analyze real scientific data.** Students explore and analyze environmental data from around the world through GLOBE's publicly accessible scientific database.

**Students showcase their research findings.** Students share their work with peers, scientists, and the broader GLOBE community through the GLOBE Student Research Report database, as well as at events like the International Virtual Science Symposia, and GLOBE Learning Expeditions.

## Benefits for educators

**GLOBE helps educators bring science to life!**

GLOBE engages students' curiosities, promotes scientific discovery, and advances STEM learning. With GLOBE, you can:

- Integrate real-world science and data into your teaching
- Strengthen students' critical thinking and data literacy through hands-on research
- Support student-driven investigation that can be easily aligned with your curriculum
- Connect classroom learning to global scientific efforts

**GLOBE offers a wealth of educator resources to support your teaching practice** — from Earth system science posters and protocols to the GLOBE Teacher's Guide, video playlists, and training opportunities. Whether you're teaching in a classroom, afterschool program, or outdoor learning environment, GLOBE can support you in engaging students in authentic, inquiry-based science.

## Are you ready to become a GLOBE educator?

### Get Started

1. **Create a free GLOBE educator account:** The program is open to anyone in participating GLOBE countries. If your country is not yet involved, please contact the GLOBE Implementation Office at [help@nasaglobe.org](mailto:help@nasaglobe.org).
2. **Complete GLOBE training:** Become a certified GLOBE educator through free online eTraining as well as in-person and virtual workshops.
3. **Download the GLOBE Observer app:** Join the community and start contributing!



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The Global Learning and Observations to Benefit the Environment (GLOBE) Program