



2024

UNITED STATES

GLOBE

PARTNER YEARBOOK



ABOUT THE GLOBE PROGRAM

GLOBE History

Announced in 1994 and launched in 1995, the Global Learning and Observations to Benefit the Environment (GLOBE) Program is a science and education program that focuses on advancing Earth systems science through data collection and analysis.

More than 268 million measurements have been contributed to the GLOBE science database, creating useful, standardized, research-quality data that support informal and professional scientific exploration.

After nearly 30 years, thousands of youth, educators, and citizen scientists in 127 countries have participated in the GLOBE Program to learn about their local community in the context of the broader world. GLOBE serves learners of all ages who are enthusiastic about Earth science locally and globally through authentic learning using GLOBE technology, tools, and resources.

With the support of NASA and the federal agencies that sponsor GLOBE, namely the National Oceanic and Atmospheric Administration (NOAA), the National Science Foundation (NSF), and the U.S. Department of State, GLOBE engages everyone in purposeful data collection, building STEM skills and tomorrow's STEM workforce.

For more information, visit www.globe.gov.

The GLOBE Vision

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

The GLOBE Mission

To increase awareness of individuals throughout the world about the global environment, contribute to increased scientific understanding of the Earth and support improved student achievement in science and mathematics.

The GLOBE U.S. Coordination Office

The GLOBE U.S. Coordination Office supports a diverse group of 100 experienced and committed GLOBE Partnerships to create a strong, self-sustainable framework for training and responsive support for every GLOBE learner in the country. The office works with the U.S. Partner Forum to contact and provide support for every Partner in the country on a personal basis and through a regional model.

In 2024, the GLOBE U.S. Coordination Office (or "U.S. GLOBE") was supported through a sub-award from the GLOBE Implementation Office. Headquartered at the Leitzel Center at the University of New Hampshire, U.S. GLOBE is managed by Jennifer Bourgeault, U.S. Country Coordinator; Haley Wicklein, U.S. Assistant Country Coordinator; Alicia Carlson, Outreach and Communications Lead; Jodi Haney, Trainer/Mentor Trainer and Partner Sustainability Lead; and Eleanor Jaffee, Outside Evaluator.



GLOBE Partnerships

U.S. GLOBE Partners facilitate the implementation of the GLOBE Program in their state or service area. Partners support educator professional development, student inquiry, and research on the environment.

Each U.S. GLOBE Partnership must have a formal affiliation with an institution of higher education, a school district, a state department of education or a recognized informal education organization (501(c)(3)) such as STEM learning centers, museums and foundations that can sustain the implementation of GLOBE in their communities.

New and prospective GLOBE Partners must demonstrate the capacity to recruit, train, and mentor educators in their service area. Their efforts must focus on capacity-building, program sustainability, and youth inquiry and research.

- View a list of [current U.S. GLOBE Partners](#)
- Learn more about how to [Become a GLOBE Partner](#)

New U.S. GLOBE Partnerships

The GLOBE U.S. Coordination Office welcomed one new GLOBE Partnership in 2024: PA Virtual Charter School in King of Prussia, Pennsylvania. We look forward to working with them to expand GLOBE's reach in the United States!

GLOBE is sponsored by the U.S. National Aeronautics and Space Administration (NASA) and supported by the National Science Foundation (NSF), National Oceanic and Atmospheric Administration (NOAA) and the United States Department of State.



The material contained in this document is based upon work supported by a National Aeronautics and Space Administration (NASA) grant or cooperative agreement. Any opinions, findings, conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of NASA.



The GLOBE U.S. Coordination Office is based at the Leitzel Center at the University of New Hampshire.



U.S. GLOBE NEWS HIGHLIGHTS

The following highlights were posted on the [U.S. GLOBE news page](#) in 2024. The full stories are available from the linked titles. The complete list for 2024 can be found in the Appendix on page 64.

[U.S. Partners Share Solar Eclipse Activities:](#) The GLOBE U.S. Coordination Office asked GLOBE Partners to share their experiences during the April 8 total solar eclipse. Four Partners responded with their activities leading up to the eclipse, including interviews and presentations, and well as their experiences leading programs on the day of the eclipse.

A "Sunspotter" projection device provides a view of a solar eclipse by projecting an image of the sun onto a flat white sheet of paper.



[GLOBE and Dr. John Francis Invite Educators and Students to Take a Planetwalk:](#) Dr. John Francis, a friend of GLOBE, is on a 6,000 mile journey to walk across the continent of Africa, from Cape Town to Cairo. Dr. Francis is a well-known environmental educator who stopped riding in motorized vehicles and stopped speaking for 17 years after witnessing an oil spill in the San Francisco Bay, California, USA. While the GLOBE community can't all join Dr. Francis in Africa, they are finding ways to join him in solidarity in their own communities.

Dr. John Francis walks with a stick along a beach in South Africa, the ocean behind him.



U.S. GLOBE NEWS HIGHLIGHTS continued

[2024 GLOBE Annual Meeting Highlights: U.S. Partners](#): The 2024 GLOBE Annual Meeting was held July 15-18 at the State University of New York at Fredonia and hosted by long-time U.S. GLOBE Partner Mike Jabot. The meeting was organized and facilitated by the outgoing GLOBE Implementation Office (GIO) at the University Corporation for Atmospheric Research (UCAR). More than 200 attendees from 31 countries gathered on the SUNY Fredonia campus throughout the week and joined in the field trip to Niagara Falls on the third day. Several U.S. GLOBE Partners received travel funding support from the GLOBE U.S. Coordination Office through UCAR/GLOBE Implementation Office Grant and Cooperative Agreement No. NNX17AD75A. They provided reports of their experiences and take-aways.



2024 GLOBE Annual Meeting participants gathered outside on the SUNY Fredonia campus, with more than 150 people in the photo.



2024 U.S. GLOBE ACTIVITIES

U.S. GLOBE Office activities in 2024 supported Partners, educators, and students. The major activities included:

- U.S. Student Research Symposia
- North American Regional Meeting
- Mini-grants
- Watercoolers
- North American Phenology Campaign

STUDENT RESEARCH SYMPOSIA

U.S. GLOBE coordinates annual regional Student Research Symposia (SRS) for educator and student teams, supported with funding from NASA (grant 80NSSC18K0135) and Youth Learning as Citizen Environmental Scientists (YLACES).

In April and May 2024, middle and high school students from around the United States came together at five regional SRS to share the results of research they conducted in their local communities. They used GLOBE protocols and data in their research and prepared posters to share their results with peers and STEM professionals.

In total, 430 people (educators, STEM professionals, students and others) attended the 2024 SRS, including 264 students who presented 95 projects.

Aside from their presentations, students participated in a variety of science activities. Many practiced GLOBE protocols, listened to scientists talk about their research and careers, explored the local environment, and learned about programs of study at the hosting locations.

More information about each regional SRS can be found in later sections or through this [2024 SRS summary](#).

2024 NORTH AMERICAN REGIONAL MEETING

The 2024 North American Regional Meeting (NARM) was held virtually over three days, October 15–17, for three hours each day. Amy Chen, the GLOBE program officer at NASA, and Rebecca Lewis and Becky Boger from the new GLOBE Implementation Office opened the meeting with welcomes, highlights, and updates on GLOBE activities.

Ninety-eight people registered for the free meeting. Over the three days, 90 of those people attended, making it the most well-attended virtual NARM in the GLOBE Program's history. Forty-eight people attended all three days.

The first day consisted of concurrent workshops to build skills. The second day featured GLOBE Partners sharing their work and accomplishments through lightning talks. The third day focused on professional learning around grant writing and communications. [Read a summary of the 2024 NARM](#).

2024 U.S. GLOBE ACTIVITIES continued

U.S. GLOBE PARTNER MINI-GRANTS

Beginning in July 2023, the GLOBE U.S. Coordination Office began soliciting proposals from U.S. GLOBE Partners through a mini-grant program. Two mini-grants were awarded in 2024, including:

- Project-Based Learning templates to support student research using GLOBE, NASA, and NOAA data.
- A week-long summer camp for high school students to collect measurements using GLOBE protocols in hydrology, surface temperature, trees, and land cover and work on mini projects.

A summary of all mini-grants can be found on the [GLOBE Mini-Grants Awards Padlet](#).

U.S. GLOBE WATERCOOLERS

The U.S. GLOBE Watercoolers are virtual learning, discussion, and networking opportunities for GLOBE educators and Partners that model the idea that informal gatherings around water coolers at work can lead to valuable exchanges of information and new collaborations. In 2024, U.S. GLOBE community members presented at 13 Watercoolers with 76 unique attendees. Presentations covered a wide range of topics including NASA Worldview, the Dirty Soil citizen science project, a GLOBE atmosphere group for West Virginia educators, and connecting state standards to GLOBE.

Recordings of Watercoolers can be viewed on the [U.S. GLOBE Watercoolers YouTube playlist](#).

NORTH AMERICAN PHENOLOGY CAMPAIGN

In collaboration with GLOBE Canada, the GLOBE U.S. Coordination Office encourages educators, students, and citizen scientists to make leaf green-down and green-up observations through the [North American Phenology Campaign](#). The campaign is based largely on the successful European GLOBE Phenology Campaign.

In spring 2024, observers measured leaf budburst and green-up and entered 1,746 measurements into the GLOBE database. In fall 2024, observers measured leaf green-down using the GLOBE Color Guide and GLOBE Observer app and entered 1,695 measurements into the GLOBE database.



U.S. GLOBE PARTNERSHIP ACTIVITIES: BY THE NUMBERS

U.S. GLOBE Partners reach a wide audience through their events and activities. This year, we asked them to report the numbers, including:

- Youth reached
- Youth-centered events
- Educators reached
- Educator-centered events

The graphic shows the cumulative reports of the 29 Partnerships that reported on at least one of the categories. We had some high numbers of engagement this year, due in part to the 2024 total solar eclipse.

There were a few superstar reporters! Most notably:

- Wayne RESA (Mich.) reported reaching 75,000 youth (they provided solar eclipse glasses to many schools in Detroit).
- Los Angeles Public Library (Calif.) reported reaching 3,480 youth and 980 educators.
- South Dakota Discovery Center reported reaching 800 educators.

U.S. GLOBE BY THE NUMBERS (2024)



99,643

Youth reached



4,966

Educators reached



473

Youth-centered
events



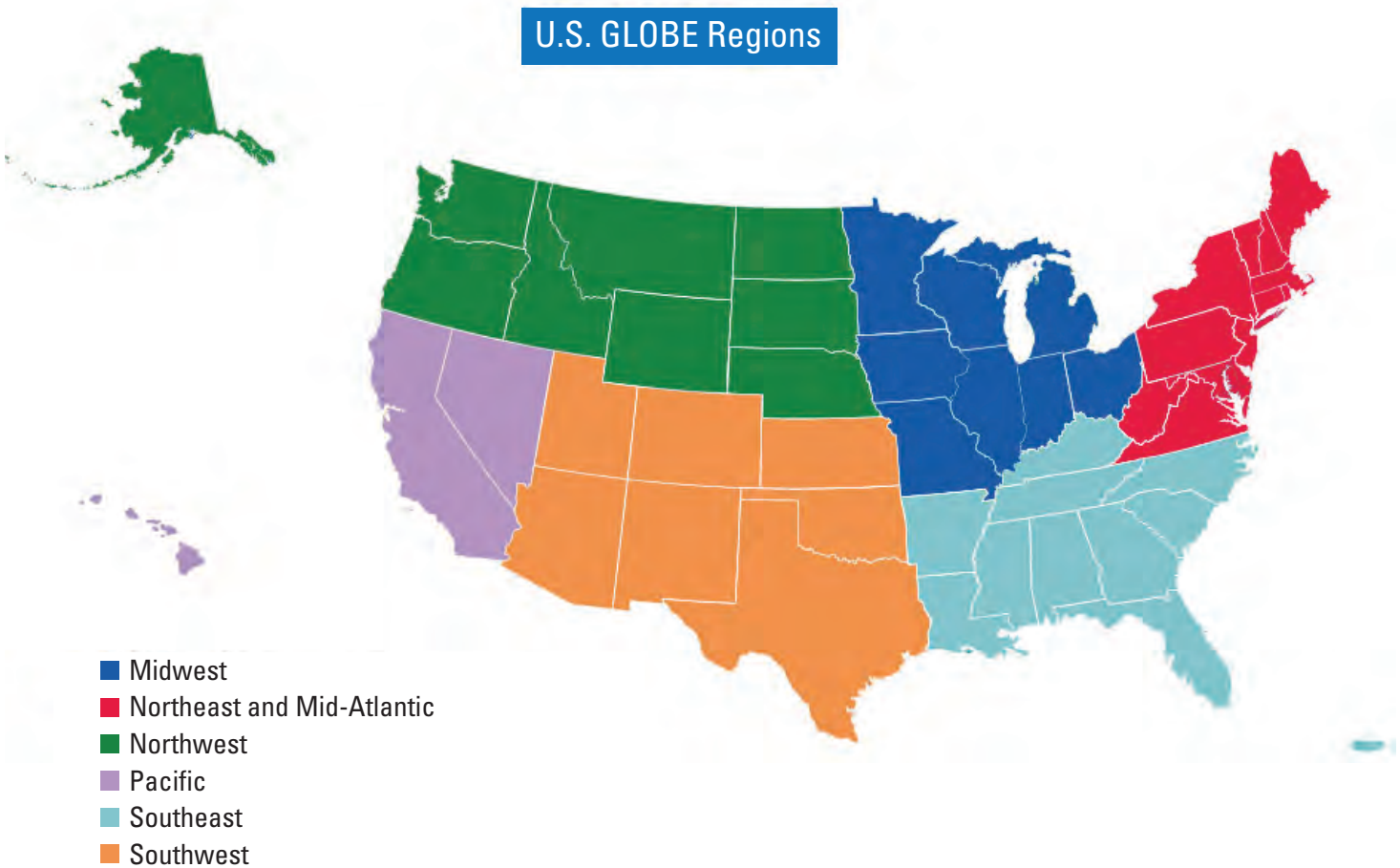
175

Educator workshops/
events



U.S. GLOBE REGIONS

The U.S. is divided into six GLOBE regions. Each region has one representative on the U.S. Partner Forum, who works closely to guide the future of GLOBE in the United States.



A map showing six regions of the United States, indicated by color. Dark blue: Midwest; Red: Northeast and Mid-Atlantic; Green: Northwest; Purple: Pacific; Light blue: Southeast; Orange: Southwest.

U.S. GLOBE REGIONS continued

MIDWEST REGION

Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin

NORTHEAST AND MID-ATLANTIC REGION

Delaware, District of Columbia, Connecticut, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia

NORTHWEST REGION

Alaska, Idaho, Montana, Nebraska, North Dakota, Oregon, South Dakota, Washington, Wyoming

PACIFIC REGION

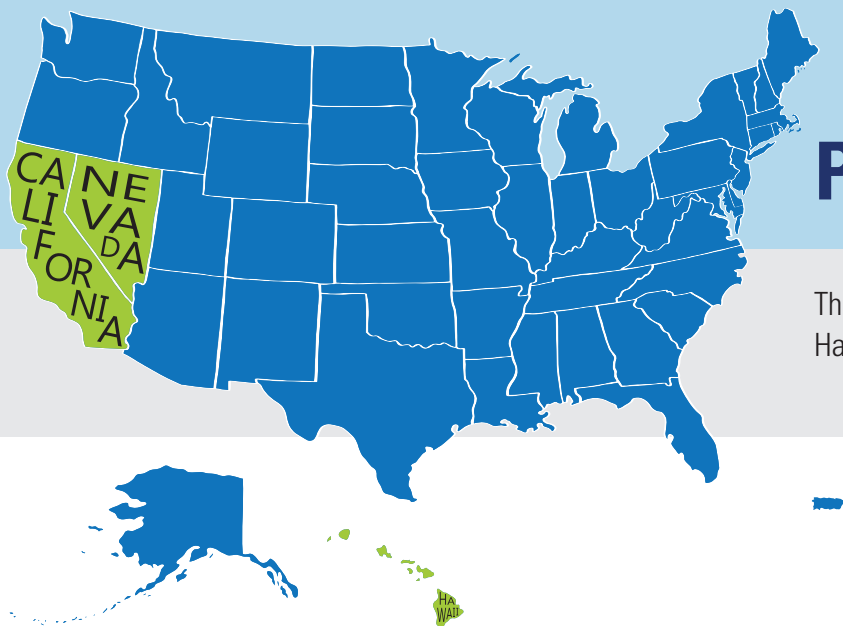
California, Nevada, Hawaii

SOUTHEAST REGION

Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Puerto Rico Territory

SOUTHWEST REGION

Arizona, Colorado, Kansas, New Mexico, Oklahoma, Texas, Utah



PACIFIC REGION

The U.S. GLOBE Pacific region is comprised of California, Hawaii, and Nevada.

SRS SUMMARY

In 2024 the Pacific and Northwest Student Research Symposium (SRS) was held at the NASA Jet Propulsion Lab in Pasadena, California, from May 10-11. Students presented 22 research projects to each other and STEM professionals.

[Read a summary of the 2024 GLOBE Pacific SRS.](#)

Here are some examples of student projects from the Pacific SRS.

- Measuring Nitrogen & Phosphorus Soil Depletion Rates in Relation to the Presence of Plants, Skyline High School (CA)
- Weather's Effect on Contrails, John Adams Middle School (CA)
- The Effects of Environmental Factors on Mosquitos, Assurance Learning Academy (CA)

Pacific Region Partnerships that supported student and educator teams attending the SRS include Elkhorn Slough National Estuarine Research Reserve, WestEd/UC Berkeley, and NASA Jet Propulsion Laboratory.

GLOBE NEWS HIGHLIGHTS

In February, 14 GLOBE community members attended the Pacific North American Regional Meeting (NARM) workshop. This two-day event was focused on providing Trainer candidates with opportunities to demonstrate GLOBE atmosphere and hydrosphere protocols. Read a summary of the [Pacific Region NARM](#).



OTHER GLOBE NEWS

- [GLOBE is Adopted at Two National Estuarine Research Reserves in California](#) (Elkhorn Slough National Estuarine Research Reserve)

PARTNERSHIPS

Read about the activities and accomplishments of the following Pacific Region GLOBE Partnerships in this section.

- Elkhorn Slough National Estuarine Research Reserve, California
- Los Angeles Public Library, California
- WestEd/UC Berkeley, California
- University of Nevada Reno, Nevada

Other Pacific Region Partnerships are listed in the Appendix.



ELKHORN SLOUGH NATIONAL ESTUARINE RESEARCH RESERVE

[Elkhorn Slough NERR](#)

GLOBE Partner since 2016

Partnership Coordinator:

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Team Member:

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About the Partnership: Elkhorn Slough National Estuarine Research Reserve (NERR), located in Monterey Bay, California, is part of a system of 30 NERR sites in the United States. Elkhorn Slough NERR has created engaging field trip options that include GLOBE-based mini-investigations using GLOBE protocols in hydrosphere, atmosphere, and biosphere. Educators participate in GLOBE workshops every year and are offered support in their efforts to implement GLOBE at their sites. Elkhorn Slough NERR continues to increase the reach of GLOBE around Monterey Bay.

2024 Highlights:

- Elkhorn Slough NERR conducted its sixteenth GLOBE onsite workshop for Grades 5-12 formal and informal educators from July 10-11, and one train-the-trainer session at the Reserve.
- GLOBE Trainer Peggy Foletta uploaded [GLOBE water quality protocol videos](#) to YouTube to help anyone who would like to visualize how these protocols are carried out. Also included is background information about the protocol.
- GLOBE trainer Peggy Foletta partnered with the San Francisco NERR scientist Matt Ferner and Nico Janik of the WestEd/UC Berkeley GLOBE partnership to conduct a GLOBE educator training at San Francisco NERR's Tiburon Center, June 17-18, for San Francisco area educators. NERRs are ideal settings for GLOBE trainings. Matt and Peggy continue to encourage other NERRs to include GLOBE trainings at their locations around the country.
- The California Strong consortium collaborated on conducting a GLOBE train-the-trainer as part of an in-person GLOBE North American Regional Meeting hosted by the Office of Outdoor and Environmental Education for the Los Angeles Unified School District. Peggy Foletta was one of the trainers at the event.
- Peggy Foletta guided students at the 2024 GLOBE Annual Meeting through an investigation of Lake Erie water quality. She helped them come up with an investigative question and taught them how to conduct Hydrosphere protocols.

Areas of Expertise: In-service professional development, Programming for students, Elementary GLOBE, Citizen science, Informal science

Cooperating Organizations: Elkhorn Slough Foundation; Monterey Bay Aquarium; Pacific Grove Museum of Natural History; Monterey County Office of Education; Santa Cruz County Office of Education; Monterey Bay Aquarium Research Institute; Moss Landing Marine Labs; Western Flyer Foundation

Funding: NOAA; California Department of Fish and Wildlife; Elkhorn Slough Foundation

Student Research Support: Elkhorn Slough NERR has worked with several local teams that attended or submitted projects at virtual SRS. Having held two SRS at our site, we hosted several more student projects and our scientists were reviewers and keynote speakers at these events.

Audiences: Elementary school students, Middle school students, High school students, Undergraduate students, Graduate students, PreK-12 educators, Life-long learners



CALIFORNIA

LOS ANGELES PUBLIC LIBRARY

[Los Angeles Public Library GLOBE Partnership page](#)

GLOBE Partner since 2018

Partnership Coordinator:

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About the Partnership: The Los Angeles Public Library's (LAPL) Neighborhood Science initiative collaborates with GLOBE to enhance environmental and Earth literacy by providing free programs and loanable kits. Through this initiative, local residents are empowered to engage in scientific research through hands-on data collection in their own neighborhoods, fostering both education and awareness at the community level. LAPL plays a crucial role in encouraging community members to learn at their own pace and contribute meaningfully to global scientific efforts.

2024 Highlights: In 2024, the Neighborhood Science (NeiSci) initiative at the Los Angeles Public Library successfully established a training program for the Los Angeles Unified School District's Climate Education Literacy Champions. Additionally, LAPL engaged an audience of 700 principals and administrative staff during an introductory webinar on NeiSci, laying the groundwork for a broader integration of environmental literacy across the district.

LAPL's NeiSci initiative also resonated on national and international platforms through conference presentations:

- 2024 American Library Association Annual Conference in San Diego
- 2024 Southern California Linux Expo (on the theme of open data/open science)
- Librarians in Response webinar as part of the International Federation of Library Associations, focusing on "Bridging Citizen Science and Sustainable Development Goals"

These presentations highlighted LAPL's innovative approach to offering loanable kits that equip participants to explore locally relevant environmental concerns and contribute data using the GLOBE Observer app, showcasing how libraries can serve as pivotal community hubs for citizen science.

We also presented to South Korean school librarians and pre-service librarians from the University of British Columbia to discuss the GLOBE program and NeiSci kits, inspiring them to replicate our model.

Vivienne Byrd volunteered with an academic librarian in Malaysia to introduce academic and public librarians across five provinces on starting participatory science programs. This initiative sparked enthusiasm among Malaysian librarians for joining the GLOBE community and advanced discussions about integrating Malaysia into the GLOBE network.

Areas of Expertise: In-service professional development, Programming for students, Elementary GLOBE, Citizen science, Informal science

Cooperating Organizations: NASA Jet Propulsion Lab; University of Southern California; University of California Los Angeles; Institute for Global Environmental Strategies; Natural History Museum of LA County; LA Sanitation and Environment; LA Department of Water and Power; LA Recreation and Parks; LA Unified School District

Funding: Library Foundation of Los Angeles and LA City budget allocated for STEAM Enhancement fund.

Publications and Presentations:

- [2024 LAUSD Climate Literacy Webinar Slides](#)
- [2024 Libraries in Response Webinar Slides](#) (request access)

Audiences Pre-school students, Elementary school students, Middle school students, High school students, Pre-service educators, PreK-12 educators, Life-long learners

CALIFORNIA



WESTED/UC BERKELEY

[WestEd/UC Berkeley GLOBE Partnership Page](#)

[GLOBE Mission Earth webpage](#)

GLOBE Partner since 2011

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About the Partnership: The WestEd/UC Berkeley GLOBE partnership works with formal and informal educators interested in inspiring their learners to engage with their communities. We provide professional learning opportunities for educators and work with learners directly. We aim to support students' career development by providing opportunities for students to interact with working scientists and other STEM professionals.

2024 Highlights: We continue to collaborate with the California Strong Earth System Science Team. In 2024, the collaborative partners completed several joint projects.

- Elkhorn Slough National Estuarine Research Reserve, NASA Jet Propulsion Laboratory, and WestEd/UC Berkeley completed an international GLOBE collaboration guide.
- The team completed a series of GLOBE trainings for Solar System Ambassadors. The trainings began in summer 2023 and provided ambassadors with an opportunity to learn more about integrating GLOBE in K-12 classrooms.
- The San Francisco Bay NERR worked intensively with WestEd/UC Berkeley to refine a microplastics protocol. It also hosted a GLOBE training in concert with the Elkhorn Slough NERR and WestEd/UC Berkeley partnerships.

Areas of Expertise: In-service professional development, Programming for students, Engineering, Education research,
Other: Career Technical Education and Work-Based Learning

Cooperating Organizations: GLOBE Mission Earth; The New Mexico Public Education Department; California Strong; WestEd PLACES project; American River Conservancy ; Chabot Space and Science Center

Funding: NASA Science Activation Cooperative Agreement for GLOBE Mission Earth

Publications and Presentations: See the complete list of publications and presentations on the [WestEd/UC Berkeley Publications and Presentations page](#).

Student Research Support: We support educators and prepare students for the GLOBE Pacific Regional Student Research Symposium (SRS). Every year we work with educators to take a group of learners to the SRS to present their research posters. In 2024, we co-hosted the SRS with the NASA Jet Propulsion Laboratory in Pasadena, California.

Audiences: Elementary school students, Middle school students, High school students



NEVADA

UNIVERSITY OF NEVADA RENO

[University of Nevada Reno GLOBE Partnership page](#)

GLOBE Partner since 2012

Partnership Coordinator:

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Areas of Expertise: Pre-service educators

Audiences: Pre-service educators, Elementary school students





U.S. GLOBE 2024 NEWS ROUND-UP

These articles were posted on the [U.S. GLOBE news page](#) in 2024. The full stories are available from the linked titles.

JANUARY TO MARCH

- [Caydence P. Finds SEES Internship “Incredibly Rewarding”](#)
- [14 October 2023 Annular Eclipse Round-up](#)
- [January 2024 Updates to U.S. Partner Forum](#)
- [New Jersey GLOBE Partnership Takes the First Steps with Dr. John Francis, Planetwalker: “From South Jersey to South Africa”](#)
- [Recapping the Pacific In-Person North American Regional Meeting](#)

APRIL TO JUNE

- [Wildlife Biologist Ready to Answer Phenology Questions](#)
- [Students Present GLOBE Research at INFINITY Science Center](#)
- [“Satellites and Remote Sensing” NARM Summary](#)
- [U.S. Partners Share Solar Eclipse Activities](#)
- [U.S. GLOBE Students Contribute 50 Projects to IVSS](#)
- [Camp Counselors Gather for GLOBE Goes to Camp Conference](#)
- [Defiance, Ohio, Hosts In-Person NARM](#)
- [GLOBE Students Present Research at Jet Propulsion Laboratory](#)
- [Northeast/Mid-Atlantic Students Showcase Environmental Research at Berks Nature](#)
- [Boston University AquaROVER Design project](#)
- [Midwest Students Present Research at Toledo Zoo and Aquarium](#)
- [All Saints’ Episcopal School Hosts Southwest Students’ Research](#)
- [Students Share Research at U.S. GLOBE Student Research Symposia](#)
- [New Hampshire Students Help Create the Earth Around Us Water Tent](#)
- [Going Global in West Virginia with GLOBE](#)



U.S. GLOBE 2024 NEWS ROUND-UP continued

JULY TO SEPTEMBER

- [GLOBE and STEELS Standards in Pennsylvania](#)
- [The Re-Establishment of GLOBE in Alabama](#)
- [2024 GLOBE Annual Meeting Highlights: U.S. Partners](#)
- [GLOBE's North American Regional Meeting at Badlands National Park](#)
- [Summer Camp Focused on Sustainability and Sustainable Development Goals with GLOBE](#)
- [N is for Nube: Top 5 Must-Have English-Spanish Resources About Clouds](#)
- [N is for Nube: Los 5 mejores recursos en inglés y español sobre las nubes](#)
- [North Carolina Educators Study Climate and the Earth as a System Using GLOBE](#)
- [GLOBE is Adopted at Two National Estuarine Research Reserves in California](#)
- [A Love Letter to the GLOBE Website: Using GLOBE's Digital Tools for Student Engagement](#)
- [GLOBE and Dr. John Francis Invite Educators and Students to Take a Planetwalk](#)

OCTOBER TO DECEMBER

- [Student Field Days at Earth Heart Farms - Fall 2024!](#)
- [If You Build It \(to Be Fun and Engaging\), They Will Come \(to NARM\)](#)
- [GLOBE Expands Its Reach in Massachusetts](#)
- [U.S. GLOBE Office Shares GLOBE at North American Association for Environmental Education Conference](#)



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From the bottom of our hearts, our office would like to emphatically shout “THANK YOU” to all the Partners at the 100 Partnerships across the U.S. who are making GLOBE happen in their communities through trainings, programming, providing equipment and resources, and supporting the research of youth, educators, and citizen scientists!



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