



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



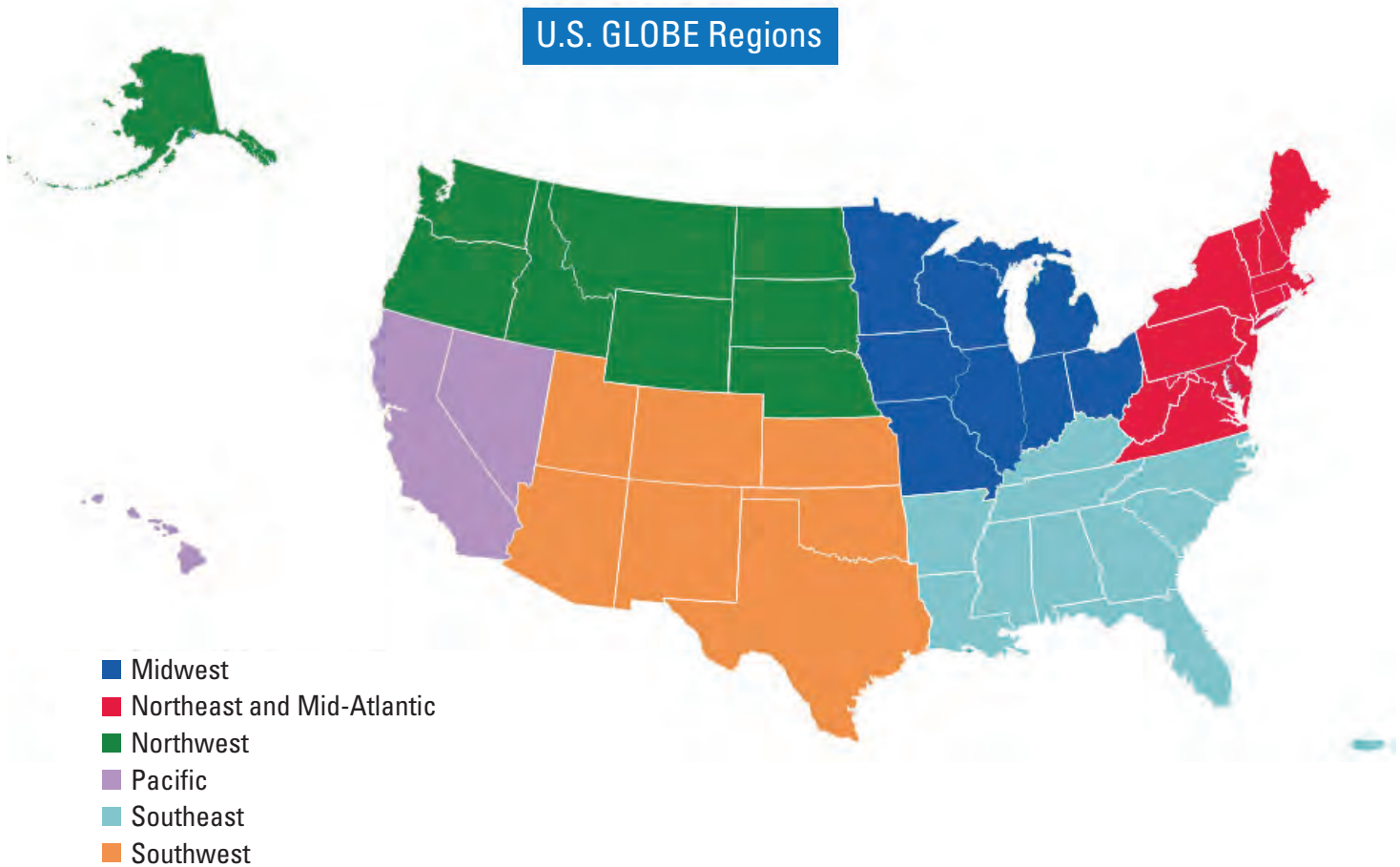
175

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

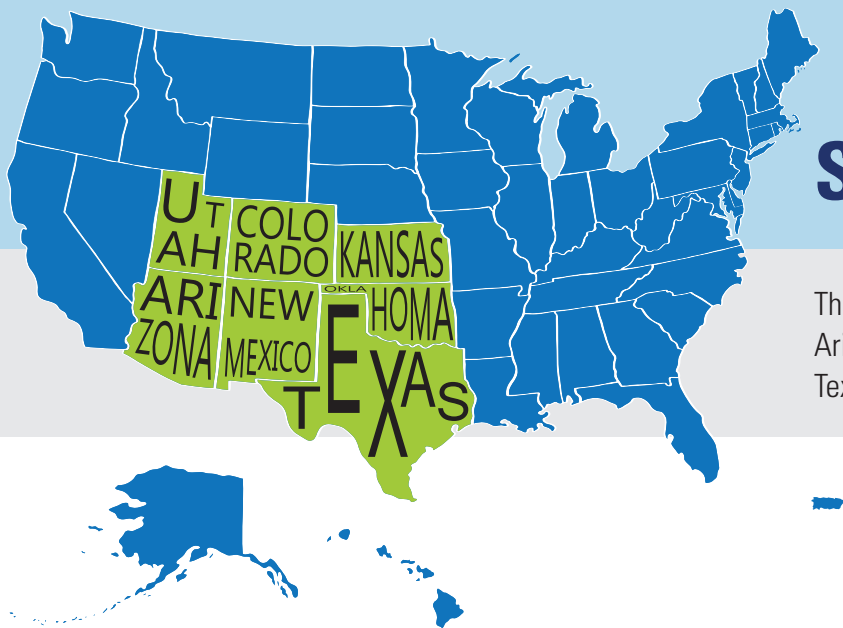
SOUTHEAST REGION

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





SOUTHWEST REGION

The U.S. GLOBE Southwest region is comprised of Arizona, Colorado, Kansas, New Mexico, Oklahoma, Texas, and Utah.

SRS SUMMARY

In 2024 the Southwest Student Research Symposium (SRS) was held May 3-4 at All Saints' Episcopal School in Fort Worth, Texas, with over 70 attendees. GLOBE students and educators traveled from Kansas, New Mexico and Texas to share their research during a poster session. [Read a summary of the 2024 GLOBE Southwest SRS.](#)

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

- Water Quality in Our Community, Mescalero Apache School (NM)
- The Effects of a Solar Eclipse on Abiotic and Biotic Factors, All Saint's Episcopal School (TX)
- Soil Sampling - Effect of population density on pollution, UT Tyler University Academy Tyler (TX)

Southwest Region Partnerships that supported student and educator teams attending the SRS include University of Texas at Tyler, Texas STEM Coalition, and NASA Langley Research Center.

GLOBE NEWS HIGHLIGHTS

The GLOBE U.S. Coordination Office interviewed GLOBE student Caydence, who spent the 2022 summer interning with the STEM Enhancement in Earth Science (SEES) summer internship program. Read more about [Caydence's SEES internship.](#)



PARTNERSHIPS

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

- Fort Hays State University, Kansas
- El Paso Community College, Texas
- Texas STEM Coalition, Texas
- University of Texas at Tyler, Texas

Other Southwest Region Partnerships are listed in the Appendix.

KANSAS



FORT HAYS STATE UNIVERSITY

[Fort Hays State University GLOBE Partnership page](#)

GLOBE Partner since 2005

Partnership Coordinator:

Paul Adams
padams@fhsu.edu
785-628-5344

About the Partnership: GLOBE at Fort Hays State University (FHSU) partners with faculty to provide professional development workshops on GLOBE related topics. We also support GLOBE data collection efforts related to GLOBE at Night and GLOBE Observer.

2024 Highlights:

- FHSU, through the Kansas NASA Space Grant, sponsored a Wind Energy Workshop in the fall of 2024 for middle school educators. The GLOBE team collaborated on the workshop to share GLOBE activities related to clouds and wind to develop a global perspective on wind and its potential as an alternative energy source.
- GLOBE Partner Paul Adams collaborated with an online astronomy course for college students to introduce the students to GLOBE at Night as an example of citizen science. The students in the class, many of whom are nontraditional students, indicated that they involved family and friends with the project.

Areas of Expertise: In-service professional development, Elementary GLOBE, Pre-service educators, GLOBE in undergraduate classrooms, Citizen science

Cooperating Organizations: FHSU Science and Mathematics Education Institute.

Funding: External grants, when available, are used to support activities.

Audiences: PreK-12 educators, Life-long learners



TEXAS

EL PASO COMMUNITY COLLEGE

[El Paso Community College GLOBE Partnership page](#)

GLOBE Partner since 2019

Partnership Coordinator:

John Olgin
jolgin@epcc.edu
915-383-5934

Team Members:

Dr. Adriana Perez
Dr. Olienka de La O Fernandez

About the Partnership: We promote environmental education, awareness, and research to academic institutions and the international community. We promote GLOBE protocols and use of the GLOBE Observer app.

2024 Highlights:

- Participated in an in-person North American Regional Meeting workshop (California) to become a GLOBE Trainer (in progress).
- Engaged with AmericaView in promoting art and science, along with utilizing STELLA technologies.

Areas of Expertise: Programming for students, Pre-service educators, GLOBE in undergraduate classrooms, Education research, Science research, Citizen science, Informal science

Cooperating Organizations: La Nube Science Museum; El Paso Community College; Tornillo Independent School District; University of Texas at El Paso; AmericaView; TexasView; Texas STEM Coalition; Texas Park and Recreation; Gene Roddenberry Planetariums

Funding: El Paso Community College

Publication:

- [GLOBE and My NASA Data Collection, Visualization and Analysis through Concept Mapping](#)

News Stories:

- [El Paso College and NASA partner for solar eclipse viewing, cultural talk](#) (CBS4)
- [Community Conversations: EPCC professor discusses total eclipse, safe viewing practices](#) (KFOX14, video)
- [Dr. John Olgin is LIVE nationally on Telemundo](#) (EPCC News, Instagram photo)
- [Inside EPCC: Earth Science Day](#) (EPCC TV)
- [Visiting Professor Discusses Satellite Imagery in Art](#) (EPCC.edu)

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

TEXAS



TEXAS STEM COALITION

[Texas STEM Coalition GLOBE Partnership page](#)

GLOBE Partner since 2019

Partnership Coordinator:

Michael Odell
mrlodell@gmail.com

Team Members:

Joe Ferrara
Kristian Fischer

About the Partnership: The Texas STEM Coalition GLOBE Partnership provides a venue for recruiting, training, follow-up, and dissemination of the GLOBE Program across Texas. Specifically, the annual Texas STEM conference includes a GLOBE focused strand to promote GLOBE and student environmental research. The coalition also provides GLOBE educators with a venue to present their GLOBE activities during the conference.

2024 Highlights:

- Supported the GLOBE Southwest Student Research Symposium in Fort Worth, Texas.
- 2024 Texas STEM Conference offered sessions on Elementary GLOBE.
- Provided eclipse glasses statewide.

Areas of Expertise: In-service professional development, Elementary GLOBE, Education research

Cooperating Organizations: University of Texas Tyler GLOBE Partnership; All Saints Episcopal School Fort Worth

Funding: Volunteers

Student Research Support: Provided support to schools including poster printing for SRS

Audience: Life-long learners



TEXAS

UNIVERSITY OF TEXAS AT TYLER

[UT Tyler webpage](#)

GLOBE Partner since 2005

Partnership Co-Coordinator:

Teresa Kennedy
tkennedy@uttyler.edu
903-566-7132

Michael Odell
modell@uttyler.edu

Team Members:

Kristian Fischer, Ent-ze Chong, Jason McGregor, Tim Kennedy

About the Partnership: The University of Texas at Tyler is responsible for recruiting, training and mentoring educators in GLOBE activities and facilitating student research in schools across East Texas. Students take GLOBE measurements at their schools on the UT Tyler campus. The Partnership focuses on training pre-service and in-service educators and facilitating student research at the UT Tyler University Academy Lab Schools in Tyler, Palestine, and Longview.

2024 Highlights:

- GLOBE pre-service training workshops for all UT Tyler elementary educators and secondary science educators.
- Integration of GLOBE into the UTeach Research Methods Course required of all secondary STEM education majors.
- Completion of the 100K Strong CLIMA grant with Argentina.
- Continued participation and support of the GLOBE Southwest Student Research Symposium.
- Provided GLOBE equipment to the University Academies including new Davis automated weather stations.

Areas of Expertise: In-service professional development, Elementary GLOBE, Programming for students, Pre-service educators, GLOBE in undergraduate classrooms, Education research, Citizen science, Informal science

Cooperating Organizations: Texas STEM Coalition Partnership; University Academy Lab Schools

Funding: 100KStrong Grant (Partners of the Americas); local support

Publication:

- UT Tyler gave 7 presentations at workshops and conferences. View a list on the [UT Tyler \(GLOBE\) Publications and Presentations page](#).

News Stories:

- [UT Tyler Partners with Argentina University on Climate Research](#)
- [UT Tyler partners with Argentina university on climate research](#) (CBS19)
- [Tyler students conduct research on bacteria linked to lung disease](#) (KLTV)

Student Research Support: Partnership staff work with students at the University Academies for Empower Fridays where students work on GLOBE research projects.

Audiences: Elementary school students, Middle school students, High school students, Undergraduate students, Graduate students, Pre-service educators, Life-long learners



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](#)



2024 CURRENT U.S. GLOBE PARTNERSHIPS

Alabama

[AMSTI](#) (pg. 48)
Keri Richburg
keri.richburg@alsde.edu

Alaska

[University of Alaska Fairbanks](#) (pg. 36)
Dr. Elena Sparrow
ebsparrow@alaska.edu
(907) 474-7699

Arizona

[Biosphere 2](#)
Dr. Kevin Bonine
kebonine@email.arizona.edu

[Northern Arizona University](#)

Mansel A. Nelson
mansel.nelson@nau.edu

Arkansas

[Arkansas Partnership for STEM Education](#)
Keith Harris
krharris@ualr.edu

[University of Arkansas](#)

Lynne H. Hehr
lhehr@uark.edu

California

[California Academy of Sciences/ Science Action Club](#)
Mauna Dasari
mdasari@calacademy.org

[Central San Joaquin Valley Partnership](#)

Leigh-Ann Olsen
lolsen@kingsburghigh.com

[Elkhorn Slough National Estuarine Research Reserve](#)

(pg. 42)
Peggy Foletta
peggyfoletta@gmail.com
(559) 970-9467

[Los Angeles Public Library](#) (pg. 43)

Vivienne Bird
vbyrd@lapl.org
(213) 228-7552

[Los Angeles Unified School District](#)

Henry Ortiz
henry.ortiz@lausd.net

[NASA Jet Propulsion Laboratory](#)

Peter Falcon
pcfalcon@jpl.nasa.gov

[New Education Options](#)

Bo Lebo
bolebo@duck.com

[WestEd/UC Berkeley](#) (pg. 44)

Svetlana Darche
sdarche@wested.org
(415) 203-4181

Colorado

[CIRES Education Outreach](#)

Jonathan Griffith
Jonathan.Griffith@colorado.edu

[Metropolitan State University of Denver](#)

Janelle Johnson
jjohn428@msudenver.edu

2024 CURRENT U.S. GLOBE PARTNERSHIPS continued

[UCAR Center for Science Education](#)

Julie Malmberg
malmberg@ucar.edu

Connecticut

[Talcott Mountain Science Center](#)

John Pellino
jpellino@tmssc.org

Florida

[Florida Agricultural and Mechanical University](#)

Dr. Katherine Milla
Katherine.milla@famou.edu

[University of South Florida](#) (pg. 49)

Teresa Greely
greely@usf.edu
(727) 553-3921

[WeatherSTEM by Ucompass.com, Inc.](#)

Edward Mansouri
emansouri@weatherstem.com

Georgia

[Center for Sustainable Communities](#)

Garry Harris
gharris@htsenterprise.com

[SOSSI – Saving Our Sons & Sisters International LLC](#)

Chuck Barlow Jr
info@iamsossi.org

[University of West Georgia](#) (pg. 50)

Randa Harris
rharris@westga.edu
(678) 839-4056

Illinois

[Illinois State University](#)

Dr. Do-Yong Park
dpark@ilstu.edu

[Northern Illinois University](#)

Nathan Stansell
nstansell@niu.edu

[Western Illinois University](#)

Dr. Redina Herman
rl-herman@wiu.edu

Indiana

[Purdue University](#)

Steven Smith
mrsmith@purdue.edu

Iowa

[Iowa Academy of Science](#)

Marcy Seavey
marcene.seavey@uni.edu

Kansas

[Fort Hays State University](#) (pg. 58)

Paul Adams
padams@fhsu.edu
(785) 628-5344

[Kansas State University](#)

Kimberly Staples
kstaples@ksu.edu

Louisiana

[College of Education, University of New Orleans](#)

Diane Maygarden
dmaygard@uno.edu

[Southeastern Louisiana University](#)

Deborah Dardis
deborah.dardis@selu.edu

[Xavier University of Louisiana](#)

Morewell Gasseller
gasseller2001@yahoo.com

Maine

[Gulf of Maine Research Institute](#) (pg. 20)

Robin Lea
rlea@gmri.org

Maryland

[Arlington Echo Outdoor Education Center](#)

Eoin O'Neill
eoneill@aacps.org

2024 CURRENT U.S. GLOBE PARTNERSHIPS continued

[Earth Networks](#)

Anuj Agrawal
aagrawal@earthnetworks.com

[NASA Goddard Space Flight Center](#) (pg. 21)

Todd Toth
todd.e.toth@nasa.gov
(717) 414-1822

Massachusetts

[Boston University School of Education](#) (pg. 22)

Peter Garik
garik@bu.edu
(617) 353-4735

[Global STEM Education Center, Inc.](#) (pg. 23)

Larisa Schelkin
larisa.schelkin@globalstemcenter.org

Michigan

[Grand Valley State University](#) (pg. 12)

Amanda Syers
syersam@gvsu.edu
(616) 331-3792

[Northern Michigan University](#)

Mitchell Klett
mklett@nmu.edu

[Wayne RESA](#) (pg. 13)

David Bydlowski
davidbydlowski@me.com
(734) 306-9508

Minnesota

[Concordia Language Villages](#)

Denise Phillippe
phillipp@cord.edu

[Gidakiimanaani- wigamig \(Our Earth Lodge\) - Nat'l Cntr for Earth-surface Dynamics](#)

Holly Pellerin
pell0078@umn.edu

[Hamline University](#)

Dr. Brian Haskell
haskell@umn.edu

[Wilderness Inquiry](#)

Mary Mallinger
mary@wildernessinquiry.org

Mississippi

[INFINITY Science Center](#) (pg. 51)

Donna Torres
dtorres@visitinfinity.com
(228) 324-1574

[University of Mississippi](#)

Dr. Debby Chessin
dchessin@olemiss.edu

[University of Southern Mississippi](#)

Dr. Sherry Herron
sherry.herron@usm.edu

Montana

[Salish Kootenai College](#)

Anthony Berthelote
anthony_berthelote@skc.org

[Stone Child College](#)

Douglas Crebs
douglas_crebs@hotmail.com

Nebraska

[STEM Education at Glacier Creek Preserve](#)

Ashlee Dere
adere@unomaha.edu

Nevada

[Nova77 STEM Workshop Partner](#)

Ping Wang
pingwang@nova77.org

[University of Nevada, Reno](#) (pg. 45)

Megan Beckam
mbeckam@unr.edu

New Hampshire

[Leitzel Center at the University of New Hampshire](#) (pg. 24)

Haley Wicklein
haley.wicklein@unh.edu

2024 CURRENT U.S. GLOBE PARTNERSHIPS continued

New Jersey

[Institute for Earth Observations](#) (pg. 25)

John D. Moore
mr.moore.john@gmail.com
(856) 829-1900

New Mexico

[New Mexico Public Education Department](#)

Shafiq Chaudhary
shafiq.chaudhary@state.nm.us

New York

[Institute for Research in Science Teaching](#) (pg. 26)

Dr. Michael Jabot
jabot@fredonia.edu

[Queens College](#) (pg. 27)

Peter Schmidt
peter.schmidt@qc.cuny.edu
(516) 510-4451

North Carolina

[Elizabeth City State University](#) (pg. 52)

Sheryl Bradford
sbradford@ecs.u.edu
(252) 335-3697

[Southwestern Community College](#)

Matthew Cass
mcass@southwesterncc.edu

[University of North Carolina at Charlotte](#)

Alisa Wickliff
abwickli@uncc.edu

North Dakota

[University of North Dakota](#)

Dr. Matt Gilmore
gilmore@atmos.und.edu

Ohio

[NASA AESP Glenn Research Center](#)

Susan Kohler
susan.m.kohler@nasa.gov

[University of Toledo](#) (pg. 14)

Dr. Kevin Czajkowski
kevin.czajkowski@utoledo.edu
(419) 530-4274

[Xcite Learning/NWO@BGSU/The Toledo Zoo](#) (pg. 15)

Jodi J. Haney
jhaney3@mac.com
(419) 350-8469

Oklahoma

[Southeastern Oklahoma State University](#)

Katheryn Shannon
kshannon@se.edu

[Southeastern Oklahoma State University -
McCurtain County Campus](#)

Dr. Cathy Stewart Lightsey
clightsey@se.edu

[The University of Tulsa](#)

Dr. David Brown
david-brown@utulsa.edu

Oregon

[Alder Creek Community Forest](#)

Jim Proctor
jproctor@lclark.edu

[College of Earth, Ocean, Atmospheric Sciences \(CEOAS\)](#)

Peder Nelson
peder.nelson@oregonstate.edu

Pennsylvania

[Berks Nature - The Nature Place](#) (pg. 28)

Michael Griffith
michael.griffith@berksnature.org
(610) 372-4992

[Legacy Bridges STEM Academy, Inc.](#)

Joi Spraggins
drjoi@legacybridges.academy

[PA Virtual Charter School](#)

Shaikha BuAli
sbuali@pavcsk12.org

2024 CURRENT U.S. GLOBE PARTNERSHIPS continued

[SciStarter Science for Citizens, LLC](#)

Hined Rafeh
hined@scistarter.com

Puerto Rico

[University of Puerto Rico, Mayaguez Campus](#)

Dr. Juan Lopez Garriga
lopezj@uprm.edu

South Carolina

[Clemson University](#)

Dr. Cynthia Minchew Deaton
cdeaton@clemson.edu

South Dakota

[South Dakota Discovery Center](#) (pg. 37)

Anne Lewis
annelewis@sd-discovery.org

Tennessee

[Tennessee State University](#)

Dr. David Padgett
dpadgett@tnstate.edu

[University of Tennessee at Chattanooga](#) (pg. 53)

Dr. Deborah McAllister
deborah-mcallister@utc.edu
(423) 425-5376

Texas

[El Paso Community College](#) (pg. 59)

John Olgin
jolgin@epcc.edu
(915) 383-5934

[ESC Region 05 - Silsbee Conference Center - TRC](#)

Roxanne Minix-Wilkins
rminix-wilkins@esc5.net

[Texas Southern University](#)

Dr. Obot Ekwere
obot.ekwere@tsu.edu

[Texas STEM Coalition](#) (pg. 60)

Michael Odell
modell@uttyler.edu

[Texas Tech University - CISER – TRC](#)

Brett Mosley
Brett.Mosley@ttu.edu

[The University of Texas at Tyler](#) (pg. 61)

Teresa Kennedy
tkennedy@uttyler.edu
(903) 566-7132

Vermont

[Shelburne Farms](#)

Joan Haley
jhaley@shelburnefarms.org

Virginia

[Institute for Global Environmental Strategies](#) (pg. 29)

Cassie Soeffing
cassie_soeffing@strategies.org
(703) 312-0824

[NASA Langley Research Center](#) (pg. 30)

Jessica Taylor
jessica.e.taylor@nasa.gov

[Science Systems and Applications, Inc.](#) (SSAI)

Holli Riebeek Kohl
holli.kohl@nasa.gov

Virgin Islands

[St. Croix Foundation/ Virgin Islands Department of Labor](#)

Dr. Michelle D. Peterson
mpeters@uvi.edu

Washington

[University of Washington Bothell](#)

Dr. Blakely Tsurusaki
btsuru@uw.edu

West Virginia

[Katherine Johnson NASA IV&V Education Resource Center](#) (pg. 31)

Josh Revels
jrevels@fairmontstate.edu
(304) 367-8436

2024 CURRENT U.S. GLOBE PARTNERSHIPS continued

[West Virginia University Department of Geology and Geography](#) (pg. 32)

Nektaria Adaktilou
nektaria.adaktilou@mail.wvu.edu
(304) 694-3424

Wisconsin

[University of Wisconsin – Madison](#) (pg. 16)

Michael Notaro
mnotaro@wisc.edu
(608) 261-1503

At-Large

[National Wildlife Federation – Eco-Schools USA](#)

Jennifer Hammonds
HammondsJ@nwf.org

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!



Haley Wicklein, U.S. Assistant Country Coordinator; Jodi Haney, Trainer/Mentor Trainer and Partner Sustainability Lead; Jennifer Bourgeault, U.S. Country Coordinator; Alicia Carlson, Outreach and Communications Lead; Eleanor Jaffee, Outside Evaluator

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