



THE GLOBE PROGRAM

Asia and Pacific Annual Regional Meeting Jan 24 – Jan 26, 2022

Hosted Virtually

Institute for the Promotion of Teaching
Science and Technology (IPST)

&

Asia and Pacific Regional Coordination Office



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Meeting Highlights

- **Monday 24th**
 - Presentations and Student reports
 - Wonderful way to begin the meeting, particularly listening to the students present their GLOBE research.
 - Example of the students and teachers working together
- **Active region**
 - Collaboration
- **Monthly Meetings (Virtual)**

CG= Community Goal

GIO Updates

- **The GLOBE Family continues to grow**
 - Asia and Pacific welcomes Bhutan
 - Virtual Training in January with Teachers
 - Big 'Thank You' to the training team from India, Thailand and the USA.
 - Big 'Thank You' to the RCO and Desh's team
 - Big 'Thank You' to the Bhutan CC



CG= Community Goal

GIO Updates

- The GLOBE Family continues to grow

- GLOBE Observers over 222K

Schools/Members	Data	Projects	Training				
Name	Schools	Teachers	Pre-Service	Students	Alumni	GLOBE Observers	
Africa	1,401	2,316	132	33,540	39	2,454	
Asia and Pacific	5,003	5,230	717	72,104	27	37,323	
Europe and Eurasia	5,117	4,825	340	96,454	35	38,721	
Latin America and Caribbean	2,912	2,889	728	44,675	27	13,225	
Near East and North Africa	941	932	168	19,201	10	1,949	
North America	22,439	26,105	5,348	561,749	30	121,238	

Data from 1/24/22

From: <https://www.globe.gov/about/impact-and-metrics>

CG= Community Goal

GIO Updates

- The GLOBE Family continues to grow
 - [GLOBE Implementation Office](#)
 - New staff
 - New initiatives

CG= Community Goal

Earth Day 2022

Earth Day

2021
2020
2019
2018
2017
2016
2015
2013
2012
2011
2010
2007
2004
2000



At GLOBE, Every Day is Earth Day!

And yet, every year we find something new to celebrate, honor, and bring to your attention. This year, Earth Day marks the conclusion of GLOBE's 25th Anniversary Year. It also kicks off the beginning of the next 25! With full appreciation of all the effort put into making The GLOBE Program the world's leader in international Earth science education, we recognize that there's always more work to do. On April 22, 2021, we look forward to many opportunities to expand our impact on more students, teachers, and citizen scientists; to broaden our reach into more diverse communities; and to inspire more individuals to contribute to the collective effort of improving our planet.

- Stay tuned for information on this event
- 'Re-emerging' of community event (tied to new initiative)
- Drawing for IVSS made on this day
- Student Vloggers (new crew)

CG= Community Goal

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International Virtual Science Symposium (IVSS) 2022

- In 2021, 242 projects were submitted from 20 countries.
- Seventy nine (79) projects were eligible for the drawing.
- Each project received a four-star student research badge and at least two other optional badges.
- On Earth Day, April 22, 2021, seven (7) projects were selected to receive stipends.
- 2022 Information:
https://www.globe.gov/news-events/meetings_symposia/virtual-science-symposia/2022-international-virtual-science-symposium

EG= Education Goal

Student Vloggers

- A pilot initiative, to continue
- Two students from each region
 - Andrei, Philippines
 - Lakshmi, India
- One female and one male
- Will document through videos what they are doing, learning and discovering with GLOBE

GLOBE's New Student Vloggers Made Debut on Earth Day 2021!

Apr 30, 2021



GLOBE's 14 new Student Vloggers (video bloggers) made their debut during GLOBE's anniversary celebration on Earth Day. Vlog-style videos are filmed in part "selfie-style," to help viewers embark on a journey into the vloggers world – into what they are doing, learning, and discovering.

To watch their introduction video, [click here](#).

The GLOBE Implementation Office (GIO) would like to congratulate the new Student Vloggers! They are as follows (in alphabetical order):

- Andrei, age 15 (The Philippines, GLOBE Asia and Pacific Region)
- Carlos, age 14 (United States of America, GLOBE North America Region)
- Christine, age 17 (United States of America, GLOBE North America Region)
- Hala, age 16 (Saudi Arabia, GLOBE Near East and North Africa Region)
- Hannah, age 13 (Malta, GLOBE Europe and Eurasia Region)
- Johannes, age 18 (Estonia, GLOBE Europe and Eurasia Region)
- Lakshmi, age 13 (India, GLOBE Asia and Pacific Region)
- Maia, age 16 (Argentina, GLOBE Latin America and Caribbean Region)
- Renada, age 15 (Oman, GLOBE Near East and North Africa Region)
- Sisanda, age 16 (South Africa, GLOBE Africa Region)
- Team: Lucio, Mariana, and Juan, ages 19, 18, and 19 (Argentina, GLOBE Latin America and Caribbean Region)
- Xavier, age 15 (South Africa, GLOBE Africa Region)

Please subscribe to GLOBE's YouTube channel ([click here](#)) to watch the weekly episodes, which will begin to be released in early May.

CMG= Communications Goal

GLOBE Trainer Certification Process

Are you interested in becoming a GLOBE Trainer?

A Mentor Trainer?

Check out this information

[Training process site](#)

[Documents](#)

GLOBE Trainers

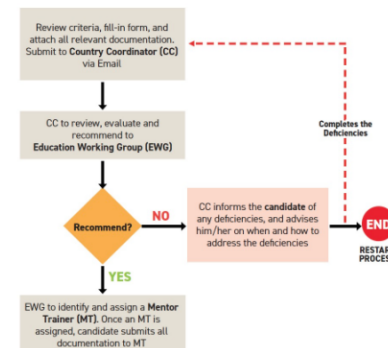


The GLOBE Program has a long history of building the capacity of its community by certifying GLOBE Trainers and Mentor Trainers. The result is a vibrant, growing community with members who are equipped to accomplish the mission and strategic goals of GLOBE[1].

To accomplish this, it is important to have GLOBE Trainers leading GLOBE workshops who are knowledgeable in the GLOBE program with a firm understanding of protocols, procedures, quality of data being collected and recorded, and who can guide teachers how to implement GLOBE in their educational setting. These GLOBE Trainers must be able to educate as well as support teachers to ensure GLOBE protocols are properly being conducted. There are three types of GLOBE trainers:

- **Candidate Trainers** are individuals seeking accreditation to be a formal GLOBE Trainer. They must provide documentation of their competency in four critical areas: (1) Science, (2) Education, (3) Adult Learning, and (4) Knowledge of GLOBE. Candidate Trainers will work with a Mentor Trainer to lead a GLOBE Workshop under the guidance and supervision of this Mentor Trainer.
- **Candidate Mentor Trainers** are individuals seeking accreditation to be a formal Mentor Trainer to GLOBE Trainers. They must provide documentation of their competency in four critical areas: (1) Science, (2) Education, (3) Adult Learning, and (4) Knowledge of GLOBE. If possible, Candidate Mentor Trainers will work with a Mentor Trainer to assist Candidate Trainers in leading a GLOBE Workshop under the guidance and supervision of this Mentor Trainer.
- **Trainers (and Mentor Trainers)** are certified to train educators in various GLOBE scientific protocols, educational activities, and GLOBE science research process. GLOBE Trainers are the front line ambassadors from GLOBE to faculty and teachers from elementary through university and the general public. Please note: the terms Trainer and Master Trainer have been combined into one term, Trainer. The term Master Trainer will no longer be used.
- **Mentor Trainers** aid in advancing the community of Trainers by mentoring Candidate Trainers.

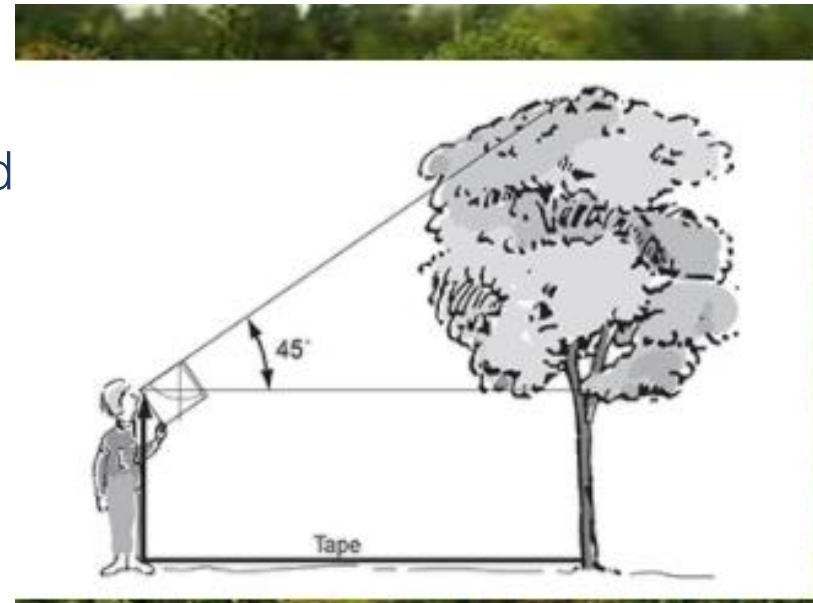
STEP 1 APPLICATION AND QUALIFICATION REVIEW



EG= Education Goal

GLOBE Protocol Changes

- Protocol Deactivation Report
 - A number of protocols will be deactivated
 - Report submitted by Science WG
 - Approved by NASA
 - GIO and SSAI are creating a plan and timeline to deactivate
- Protocol Proposal Process
 - Science WG beginning development of new process
- Working Group (WG)



SG= Science Goal

GLOBE Program's App GLOBE Observer

- Continued enhancement of tools in app (this occurs continually and as required)
- Number of campaigns/challenges underway (Check out webpages: <https://observer.globe.gov/>)
- Publications from this project listed on webpage in publications section <https://observer.globe.gov/publications>
- More extensive updates from Data Information Systems tomorrow



TG= Technology Goal

Important Reminders

- Working Groups (WGs)
 - Five WGs (DEI; Ed; Eval; Sci; Tech)
 - Efforts of the WGs broadcast in the Newsbrief; blogs and presentations
 - New pages on the on the GLOBE website for WGs products
 - For this members will need a gmail account
 - New members have joined the WGs and will attend meetings from January 2022

CG= Community Goal

Important Reminders

- Annual Survey
- Strategic Plan (tomorrow's presentation)
 - Infographics



2020 GLOBE Annual Survey Highlights
EDUCATION

MATERIALS & RESOURCES
GLOBE materials and educational resources are accessible and useful to the GLOBE community.

- 2 in 5 Teachers** Reported that they needed the most support in developing data collection instruments in order to assess the effectiveness of GLOBE materials and resources in the classroom.
- 27%** Of GLOBE teachers use atmosphere protocols at least once a week.
- 31%** Of teachers use the GLOBE Teacher's Guide at least once every 3 months.
- 36%** Of GLOBE teachers have aligned GLOBE materials to meet regional or national standards.

PROFESSIONAL DEVELOPMENT
GLOBE's capacity to deliver high quality professional learning experiences (strategies) has increased.

- 4.2 out of 5** Avg rating on teacher training workshops.
- "I learned a lot of ways to do hands-on activities with my students!"
- "Phenomenal trainers and information!"
- "Outstanding presentations and planning!"

STUDENT INVESTIGATIONS
Students develop high quality STEM investigations of Earth systems phenomena from a local to global scale perspective.

- 248** Number of students developing STEM investigations.
*Based on 103 project reports.

EVALUATION
Information on GLOBE's educational impact is regularly shared by the community.

- 63** Number of articles, publications, or presentations about the GLOBE program.
*Based on Google Scholar search.

Additional 2020 survey infographics available: [TECHNOLOGY](#) | [SCIENCE](#) | [COMMUNITY](#) | [COMMUNICATION](#)
Thank you for your participation. Look for the 2021 Survey coming soon!



THE GLOBE PROGRAM
Overview of GLOBE Annual Survey

The GLOBE Annual Community survey is the primary data collection tool for gathering information from the GLOBE community. It is administered to GLOBE Teachers, Partners, Country Coordinators and members of the GLOBE International STEM Network (GISN) at the end of each calendar year. The current survey questions were developed with input from each of the Working Groups and align with the goals and performance measures in the 2018-2023 Strategic Plan. In concert with other data sources, the survey data is primarily used to monitor the GLOBE Program's progress toward achieving the performance targets in the strategic plan. Highlights from the annual survey are typically shared with the GLOBE Community during the annual meeting. On occasion, survey results are presented to the Working Groups to facilitate in-depth conversations about the data.


A different survey version is administered to each of the adult community groups -- GLOBE Teachers, Partners/Country Coordinators and the GISN. The majority of the questions on each survey are the same. However, a few questions are unique to each group. For example, the GLOBE Teacher survey includes questions about classroom practices, the Partner/Country Coordinator survey includes questions about managing GLOBE implementation in schools and the GISN survey includes questions about the relevance of GLOBE protocols to STEM research activities.

One of the major challenges of the survey has been the low number of responses, which limits our ability to generalize the results across the GLOBE Community. Table 1 below shows the number of responses to each of the surveys and the response rate since 2018.

	2018		2019		2020	
	# of responses	Response rate	# of responses	Response rate	# of responses	Response rate
Teachers	436	< 2%	348	< 1%	280	< 1%
U.S. Partners	51	34%	67	52%	46	33%
Country Coordinators	61	50%	62	51%	82	65%
GISN	27	22%	25	21%	18	15%

* In 2018, there were 34,625 teachers, 148 U.S. Partners and 120 Country Coordinators; In 2019, there were 38,510 teachers, 127 U.S. Partners and 121 Country Coordinators; In 2020, there were 40,802 teachers, 138 U.S. Partners, 126 Country Coordinators and 119 GISN (used to calculate all response rates)

One factor that may account for the low responses is the manner in which the survey results are communicated. To address this issue, GIG evaluation created a set of one-page summaries of the survey results in each of the five goal areas of the strategic plan. These one-pagers (Communications, Community, Education, Science, and Technology) highlight important and relevant findings gleaned from the survey data. We hope this information will motivate the GLOBE community to take more interest in the survey and respond to the survey in a timely fashion.



THE GLOBE PROGRAM
2020 GLOBE Annual Survey Highlights
TECHNOLOGY

DATA SYSTEMS
The use of the GLOBE data systems (visualizations, data entry, ADAT) has increased.

- 1 in 4 of the GLOBE community members** uses data systems tools often (at least once per month).
- 25%** Advanced Data Access Tool
- 31%** Data Visualization System
- 28%** Data Entry Tool

WEBSITE
The use of the GLOBE website to facilitate information exchange and collaboration has increased.

- 65%** of partners' CCs found the website "helpful or very helpful" for communicating and collaborating with community members.

APPS AND MOBILE DEVICES
Improve the relevance and capability of GLOBE Apps and mobile devices to better address the needs of the GLOBE Community.

- 39%** of the GLOBE community reported that the GLOBE Observer is the app they use most frequently to enter data.

Additional 2020 survey infographics available: [EDUCATION](#) | [SCIENCE](#) | [COMMUNITY](#) | [COMMUNICATION](#)
Thank you for your participation. Look for the 2021 Survey coming soon!

CG= Community Goal

Important Reminders

- [Earth Day 2022](#)
 - Stay tuned for information on this event
 - Drawing for IVSS students made on this day

- Campaigns
 - Regional: Phenology; Air Quality, etc.
 - GIO: Mission Mosquito, Trees Around the GLOBE

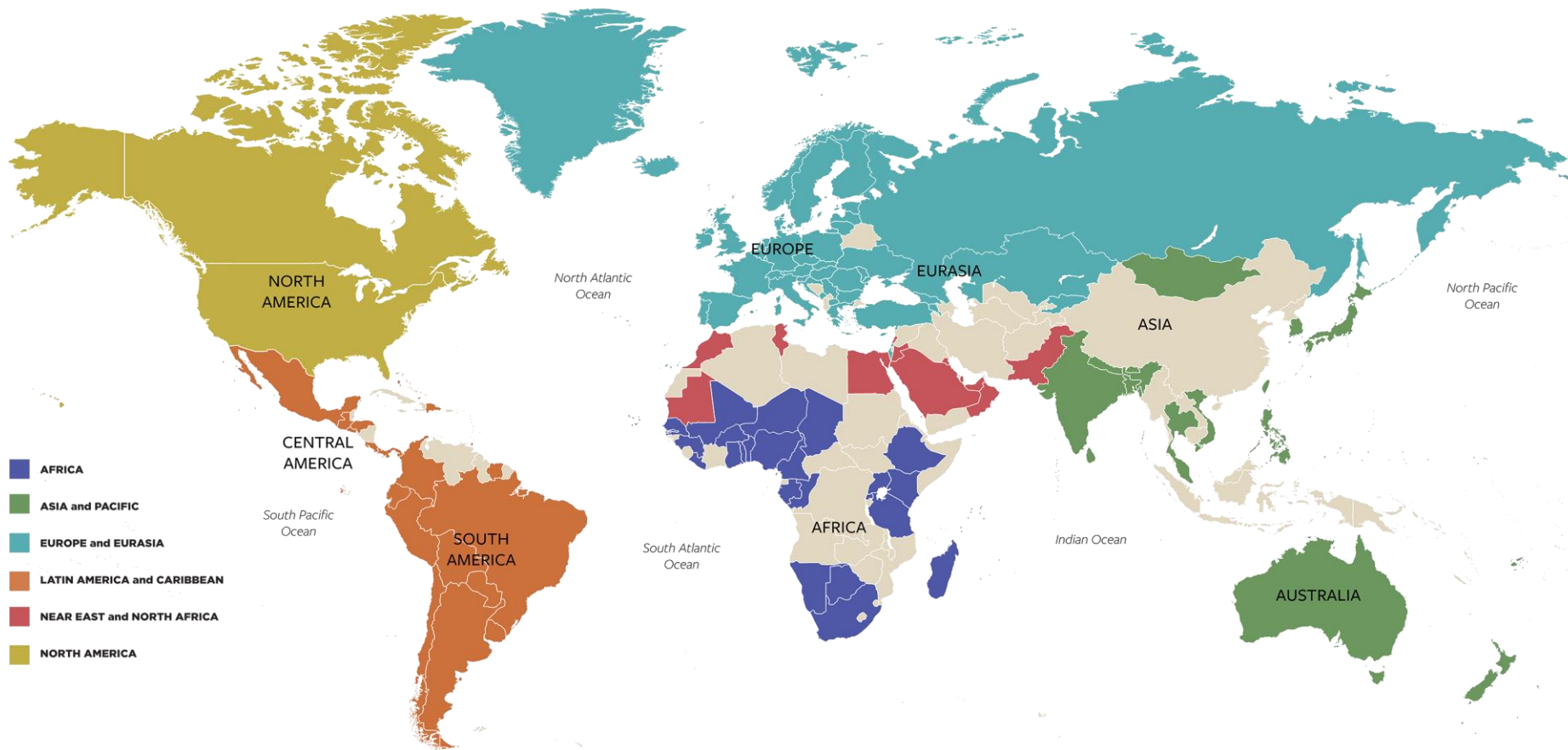
- [GLOBE Annual Meeting 2022](#) (open to all GLOBE members)
 - Dates: July 24-29
 - Location: Online

- Publications entry and/or access
 - <https://www.globe.gov/do-globe/research-resources/publications>

CG= Community Goal; SG= Science Goal; EG = Education Goal; TG = Technology Goal



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GLOBE Implementation Office (GIO)

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For more information visit www.globe.gov

