



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



Sponsored by:



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Highlights from the COVID Era

- Website dissemination
 - Using the website to disseminate resources to the community through special pages on the pandemic
 - [GLOBE in the Time of the Coronavirus Pandemic Page](#)

- Communications within the regions (monthly Zoom Meeting)

- Regional Annual Meetings (Virtual)

CG= Community Goal

Highlights from the COVID Era

- The GLOBE Family continues to grow!
- Asia and Pacific Region = 19 countries

○ 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

Asia and Pacific Measurements

Tables on this and previous slide are available on the Impact and Metrics page
<https://www.globe.gov/about/impact-and-metrics>

Schools/Members	Data	Projects	Training
Name	Data Entered	Citizen Science Org Data Entered	Total Data Entered
Australia	170,791	8,875	179,666
Bangladesh	21	186	207
Bhutan	0	2	2
Fiji	1,537	3	1,540
India	2,968,626	47,129	3,015,755
Japan	357,203	1,214	358,417
Maldives	15	10	25
Marshall Islands	3,014	2	3,016
Micronesia	21	1	22
Mongolia	5	51	56
Nepal	4,143	174	4,317
New Zealand	85,950	7,564	93,514
Palau	1	106	107
Philippines	6,811	6,422	13,233
Republic of Korea	153,937	442	154,379
Sri Lanka	44,869	1,007	45,876
Taiwan Partnership	1,558,326	2,667	1,560,993
Thailand	335,270	35,677	370,947
Vietnam	2,611	242	2,853

Data from 1/25/22

SG= Science Goal

Highlights from the COVID Era

- Data collection continues

- Almost 215 million measurements in total in database (1/22)
- Between 1-1.5 million measurements entered each month during this time



Average Air Temperature. 3/24/21

SG= Science Goal

Strategic Plan

■ Infographics

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	2%	280	3%
U.S. Partners	51	25%	67	33%	46	33%
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* 2018-2019: Survey sent to 20,686 teachers, 204 US Partners, 113 Country Coordinators and 307 GISN
 **2020 Survey sent to 8,262 teachers, 138 US Partners, 126 Country Coordinators and 119 GISN

One factor that may account for the low responses is the manner in which the survey results are communicated. To address this issue, GIO 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.

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 (trainings) 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!"

"Outstanding presentations and planning!"

"Phenomenal trainers and information"



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 IYS5 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!

EG= Education Goal

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Strategic Plan

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2020 GLOBE Annual Survey Highlights

SCIENCE

SCIENTIST PARTICIPATION

Increase participation and collaboration of scientists and STEM professionals with the GLOBE Community

40% of teachers ranked **#1** "School visits to do a GLOBE activity" as the most useful type of support from GLOBE scientists and STEM professionals.



SCIENCE DATA

Increase the comprehensiveness of the data in the GLOBE database

218,057 Number of GLOBE observer data entries

Up from **176,535** in 2019



SCIENCE PUBLICATIONS

The number of publications and citations using or referencing GLOBE has increased

15% of scientists reported having published or presented information that used or referenced GLOBE data in the past year



SCIENCE PROJECTS

Increase the number of projects focused on environmental awareness and contributing to environmental benefits

43% of GLOBE teachers reported student-related GLOBE projects related to environmental awareness in their school.

THESE PROJECTS INCLUDED:

- Phenology and Indigenous Trees in Croatia
- Ambrosia Invasive Plant Project
- GLOBE at Night
- Bee Alive



Additional 2020 survey infographics available: **EDUCATION | TECHNOLOGY | COMMUNITY | COMMUNICATION**

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Strategic Plan

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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](#)
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TG= Technology Goal

Strategic Plan

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2020 GLOBE Annual Survey Highlights COMMUNICATIONS

COMMUNICATION PATHWAYS

Improve the communication pathways among the GLOBE community



INTERNATIONAL COMMUNITY

Improve the communication of GLOBE events, activities and achievement from the international community

1 in 4

GLOBE Community members provided information to GIO on their participation in events and their achievements



NEW AUDIENCES

Increase the promotion of GLOBE to new audiences

59%

of the GLOBE community members shared information about GLOBE with a new audience



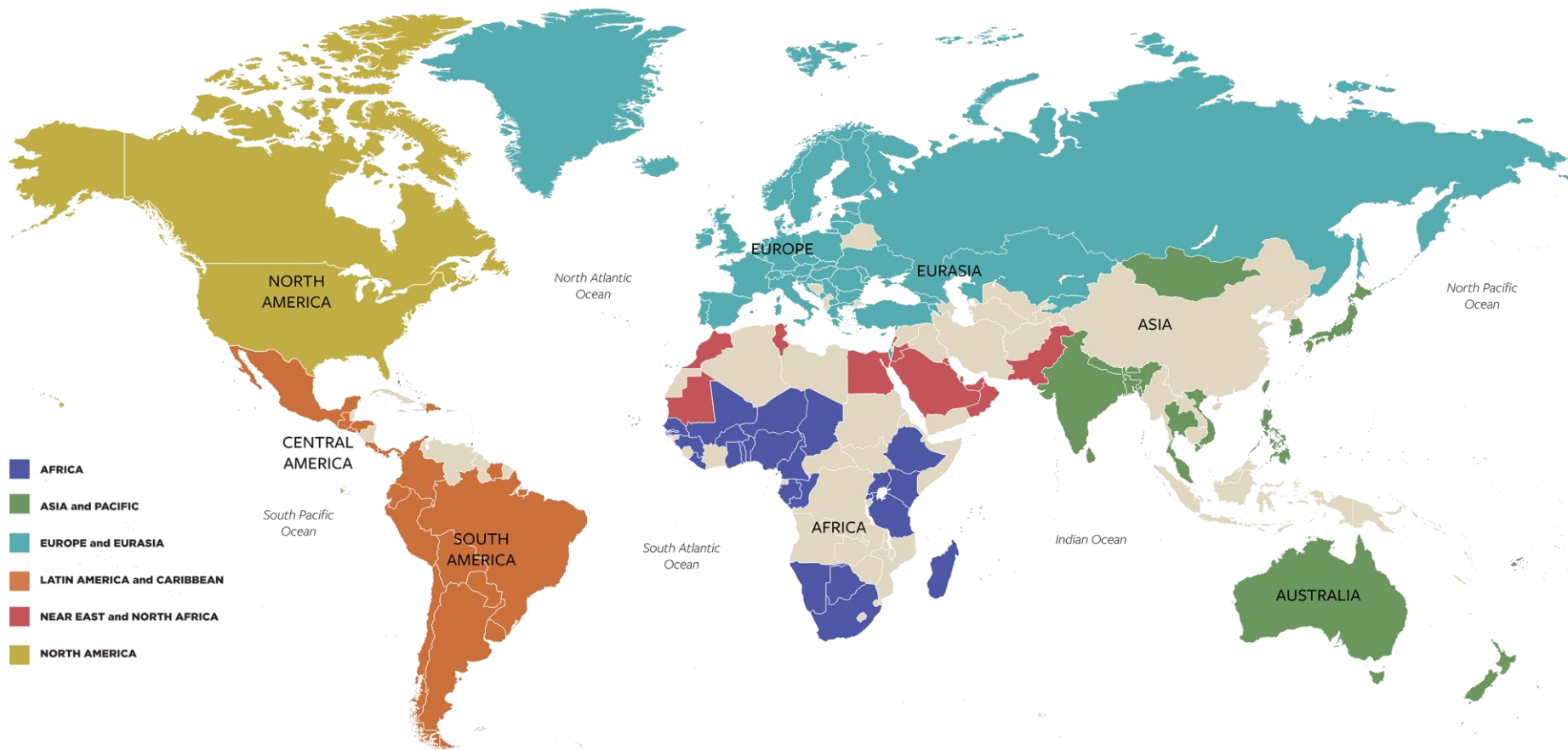
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CMG= Communications Goal



THE GLOBE PROGRAM



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Supported by:



GLOBE Implementation Office (GIO)

Community Support Team
globehelp@ucar.edu

For more information visit www.globe.gov

