



Country: Guatemala

Year 2021- 2022

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- Organization and Number of Personnel: Ministerio de Educación.
- Financing by: Ministerio de Educación
- Cooperating organizations/individuals: Oficina Regional de GLOBE
- GLOBE schools: 88 identificadas a la fecha
- Protocol Areas: Atmosphere, Butterflies and Mosquitoes.

Number of schools reporting data:

2021 Did not report data, likely due to pandemic.

2022 Most do not report data due to readjustment to the program.

Program implementation, international cooperation in the GLOBE network and activities during the years 2021 (reported by the previous coordinator) and 2022 personally identified, (categorized by objectives of the GLOBE Strategic Plan 2018-2023).

- Education

Year 2021: Preparation and distribution of the document called emerging curriculum to the country's teachers of the primary and basic cycle of secondary education levels, from which those who facilitate the area of Natural Sciences and Mathematics could develop the Atmosphere protocols, considering the prioritization of learning due to the emergence of Covid-19. In June 2021, a virtual training day on the introduction to the program was developed with the group of teachers who facilitate the area of Natural Sciences in different educational centers of the basic and diversified cycle in some departments of the country and who participate in the Galileo university program of the University of San Carlos.

Year 2022: During this year, a process of identification and updating of the database of teachers in 17 departments of the country was carried out. 98 teachers were reported by the departmental liaisons. This information was reported to the Middle Level of the Ministry of Education in Guatemala.

- Community

Year 2021: Meeting held with Mr. Tim Sarraille, Economic Affairs Officer of the U.S. Embassy in Guatemala, in April 2021; during which Mr. Sarraille was informed of the difficulties the program is going through, for which he mentioned that he would speak with the person in charge of the Peace Corps organization to coordinate joint actions to make the implementation of the program in the field a reality.

Year 2022: A survey was conducted to identify teacher participation in the Program and the following data in percentages was identified:

- 86 % of teachers would recommend the GLOBE Program to other teachers and students.
- 52% of teachers report having implemented activities related to the program.
- 30 % of teachers have received induction
- 14% of teachers indicated that they are bilingual (English-Spanish)
- 10% of teachers indicate that they have shared information on the GLOBE platform.

- Technology

Year 2022: The delivery of support material for teachers is coordinated within the framework of the Mosquito Protocol.

- Communication

Year 2021: Mailings were sent to teachers regarding the monthly activities of the program, sent by the Regional Office.

Year 2022: Each month, the GLOBE News Summary (January to September) was shared via e-mail to the 17 departmental education liaisons, requesting its socialization to GLOBE teachers to invite them to visit the GLOBE virtual platform to learn about, apply and exchange educational scientific experiences.

Plans, ideas and expectations for next year:

- Update the letter of agreement for the implementation of the program, since it dates back to 1997.
- Incorporate an NGO to the program, to contribute with the financing of the program, the accompaniment and monitoring of teachers to ensure implementation in the field.
- Identify institutions such as: the Galileo program, the Peace Corps and other related organizations that may be interested in formalizing their participation and local support for GLOBE teachers.
- Evaluate the strengths, weaknesses, threats and opportunities of the program with the participants.
- Strengthen and empower teachers to use the GLOBE platform to connect with other teachers, students and scientists, as well as to share information and implement science education processes in their educational community.
- Verify the interest of the local educational community to consolidate the Program from the Departmental Education Directorates.
- To make known the successful experiences of the teachers who most apply GLOBE Program activities and have had a positive impact on their educational community.
- Identify difficulties, challenges, expectations and proposals regarding the implementation of the GLOBE Program in local educational communities.

APPENDIX reporting information identified in GLOBE platform

REPORTE ANUAL 2021-2022

Site Name	* Investigation Area	# Observations	Created	Last Used
15PYS619080	Atmosphere	5	05/09/2022	08/06/2022
15PYS629152	Atmosphere	1	09/20/2022	09/20/2022
15PYS630152	Atmosphere	1	08/06/2022	08/06/2022

MOST RECENT MEASUREMENTS

☒ Include citizen science sites

Site Name	Protocol	Date
15PYS629152	Clouds	09/20/2022
15PYS629152	Air Temperature	09/20/2022
15PYS629152	Barometric Pressure	09/20/2022
15PYS629152	Relative Humidity	09/20/2022

10:23
3/10/2022

15PYS629152	Barometric Pressure	09/20/2022
15PYS629152	Relative Humidity	09/20/2022

SCHOOL AT A GLANCE

Participation | Training

0 Students	7 Data Entries
0 Teachers	1 School
0 Pre-service Teachers	0 Honor Rolls
1 GLOBE Observer	