

## Guatemala



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- Organization and Number of Personnel: Ministry of Education
- Funding by: This year support is received from one virtual and one face-to-face workshop by GLOBE LAC and another virtual workshop by U.S. Embassy and GLOBE COSTA RICA.
- Cooperating Organizations/Individuals: GLOBE Regional Office. Dr. Waleska Aldana from Universidad de San Carlos de Guatemala, U.S. Embassy.
- GLOBE Schools: 188
- GLOBE Protocol Areas: Atmosphere, Biosphere and Mosquitoes.
- Number of schools that reported data during the past year: 1 School

Program implementation, international cooperation in the GLOBE network and activities during the past year (categorized by objectives of the GLOBE Strategic Plan 2018-2023).

- Education

- ✓ 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.
- ✓ 2023: During the year, the following communication was sent to 17 Departmental Directorates of Education to be forwarded to teachers:
  - Trees for LAC Campaign
  - GLOBE monthly news summary
  - GLOBE Webinar
- ✓ 231 teachers identified

- Science

- ✓ 2022 and 2023: scientific fairs organized by the Universidad de San Carlos de Guatemala and others by individual scientists are held in Guatemala.

- Community

- ✓ 2022: A survey was conducted to identify teacher participation in the Program and the following data in percentages were 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 training
  - 14% of teachers indicate that they are bilingual (English-Spanish)
  - 10% of teachers indicate that they have shared information on the GLOBE platform.
- ✓ 2023: two virtual workshops and one on-site workshop are scheduled. One of the virtual workshops and the face-to-face workshop with the support of GLOBE LAC in the framework of the Atmosphere and Biosphere protocols. The other virtual workshop with the support of the U.S. Embassy and GLOBE Costa Rica in the framework of the Mosquito Protocol.

- Technology

2022: Coordination of the delivery of support material for teachers, within the framework of the Mosquito Protocol.

2023: Coordination of the delivery of support material for teachers, in the framework of the Mosquito Protocol, with the support of the U.S. Embassy (cellular microscopes, Petri boxes and video guide sheet and support).

- Communication

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

2023: Monthly communication is sent to the mails of the departmental education liaisons, to be transferred to the teachers The GLOBE News Summary (January to August 2023) sent by the Regional Office. Likewise, the calls to the webinars on the Trees for LAC Campaign.

Plans and ideas for the coming year:

- Approach with the National Central School of Agriculture ENCA, which appears in the Agreement, to learn of their interest in continuing with this program.
- Identify other actors in different parts of the country that are interested and related to Science and the Environment, in order to create strategic alliances. Consult the possibility of support in terms of teaching support, financing, field work, etc. (Peace Corps, GALILEO Program, Inter-American Tropical Research Foundation, among others).
- Update the letter of agreement for the implementation of the program, since it dates back to 1997.
- Evaluate together with the different actors of the Program in Guatemala the strengths, weaknesses, threats and opportunities of the program with the participants.
- Coordinate joint actions with institutions related to science and environment at country level.
- Coordinate approaches to propose joint actions with countries in the region.
- Strengthen and empower teachers in the use of the GLOBE platform, so that they can take advantage of it 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 Directorates of Education.
- Make known the successful experiences of the teachers who most apply activities of the GLOBE Program 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.