

2022-2023 ANNUAL REPORT

Paraguay



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● Organization and Number of Staff:

- 1 Person - Country Coordinator and Coordinator of the Benjamin Franklin Science Corner

● Funding by:

- US Embassy Paraguay

● Cooperating Organizations/Individuals:

- Sociedad Científica del Paraguay
- Universidad Comunera
- Volunteers Benjamin Franklin Science Corner

● GLOBE Schools:

- Colegio de la Asunción
- Benjamin Franklin Science Corner
- Centro Educativo Mbaracayu

● GLOBE Protocol Areas: Clouds / Trees

2022-2023 ANNUAL REPORT

- Number of Schools Reporting Data over Past Year: 3

Program Implementation, International Cooperation in GLOBE Network, and Activities over Past Year (categorized by GLOBE Strategic Plan 2018-2023 Goals):

- Education

The Benjamin Franklin Science Corner has been working with local high schools to increase student and teacher participation in GLOBE.

In 2023, the science corner volunteers used the GLOBE Observer App as a part of Peer Mentoring Program to collect data about clouds and trees. They have used the microscope and mosquito larvae protocols to identify and count mosquito larvae in their community, and even though the cloud protocols were one of their very first experiences with GLOBE, the volunteers still regularly bring in photographs on cell phones of clouds and can tell us whether the cloud is a cumulus, stratus or cirrus, says the coordinator of the program.

One of the greatest impacts for BFSC's volunteers is that they are contributing to something bigger, they are sharing data with the scientists at NASA, in many cases, data that NASA would not be able to obtain without their citizen science. When they received the satellite photos that corresponded with our cloud observations, the excitement of the club was electric, the kids understood they were making a real impact that felt significant and impressive. We are grateful to have an organization like GLOBE working here in Paraguay and are looking forward to the next module!

Title: Building a thermometer with GLOBE Protocol

Date: April 25, 2022.

Location: Mariano Roque Alonso, Paraguay

Number of participants: 60

2022-2023 ANNUAL REPORT

Participants came from the following countries: Paraguay, Argentina, Venezuela

A brief description: With students from the Hogar de Jesus de Fe y Alegria School we learned how to build a thermometer following one of the GLOBE guides.

Photos: <https://drive.google.com/drive/folders/16Z6eLCINC8qV2ls75K7BW0biTod-0YmJ?usp=sharing>

Title: Mosquito Storytel

Date: May 6 and 17, 2022.

Location: Mariano Roque Alonso, Paraguay

Number of participants: 180

Participants came from the following countries: Paraguay, Argentina, Venezuela

A brief description: With students from the Hogar de Jesus de Fe y Alegria School we learned about the life cycle of mosquitoes and the importance of eliminating breeding sites.

Photos: <https://drive.google.com/drive/folders/1O-iNLUUSeeSkj54IVZQie5oj0tby64n4?usp=sharing>

Title: Colegio de la Asunción - Expo Closure of activities 2022

Date: December 6, 2022.

Location: Fernando de la Mora, Paraguay

Number of participants: 100

Participants came from the following countries: Paraguay

A brief description: Exhibition of GLOBE experiments carried out during 2022 in science classes with the teachers Bárbara and Veronica from Colegio de la Asunción.

Photos: [https://drive.google.com/drive/folders/1AkYMGmZ-iIU5MJInmegmAoPInPBvQUy?usp=share link](https://drive.google.com/drive/folders/1AkYMGmZ-iIU5MJInmegmAoPInPBvQUy?usp=share_link)

2022-2023 ANNUAL REPORT

We are recruiting teachers from schools to help us implement the use of GLOBE as a fundamental tool in the development of classes.

● Science

Through GLOBE the Benjamin Franklin Science Corner volunteers have learned to measure temperature, relative humidity from the atmosphere protocols and other hydrology instruments. Also, we have learned the name of the clouds using the cloud protocol.

Title: Volunteers training

Date: October 13, 2022.

Location: Asuncion, Paraguay

Number of participants: 12

Participants came from the following countries: Paraguay

A brief description:

Through GLOBE the Benjamin Franklin Science Corner volunteers have learned to measure temperature and we have learned the name of the clouds using the GLOBE Observer App. We also visited CCPA's weather station.

Photos: <https://drive.google.com/drive/folders/1D3WzyvRwrkHysKmvX-gE3KtID39I5oz2?usp=sharing>

We are planning to continue taking measurements with two proposed campaigns one for Earth Day and the other is Trees within the LAC Campaign.

● Community

2022-2023 ANNUAL REPORT

The Benjamin Franklin Science Corner has started working in the community with a local highschool called Centro Educativo Mbaracayu highschool to talk about the possibility of partnering. We decided to implement the GLOBE Trees Campaign with the high school. The high school is located at the Mbaracayu Reserve, Canindeyu Department.

The teacher from the highschool told us it was a wonderful experience to share the GLOBE Project with her students at the school. The students had the opportunity to use the scientific method such as observation, experimentation, mathematical quantification, comparison, classification, analysis, tabulation, and deduction to solve practical problems of the community.

Title: She Camp

Date: July 16, 2022

Location: Asuncion, Paraguay

Number of participants: 100

Participants came from the following countries: Paraguay

A brief description: With girls and adolescents between the ages of 15 and 18, we had a workshop on identifying mosquito habitats using the GLOBE Observer App.

Photos: https://drive.google.com/drive/folders/1VdIUSBoUNf8Zp3zILNN-H9WWb_VPUEQw?usp=share_link

Title: Vacation Camp - Science Club

Date: December 14, 2022

Location: Asuncion, Paraguay

Number of participants: 60

Participants came from the following countries: Paraguay and Venezuela

2022-2023 ANNUAL REPORT

A brief description: During the vacation camp we were teaching about the types of clouds and how to make measurements with the Globe Observer App.

Photos:

https://drive.google.com/drive/folders/16dhpzaOCSlpyjHv6Dy9JS4O9DXXbXwXa?usp=share_link

Also, we plan to continue with the Science Club and take more clouds, trees and temperature observations.

● Technology

For Earth Day we organized an event to promote GLOBE with teachers and students. We use microscopes and VR lenses to connect people to nature through technology.

● Communications

The Benjamin Franklin Science Corner, the Scientific Society of Paraguay, and the United States Embassy in Asuncion is using their social media: Instagram and Facebook to promote any GLOBE related activity as the GLOBE Webinars.

Plans and Ideas for Next Year:

- Increase the number of schools, at least 5 schools who actively use GLOBE protocols in class.
- Record 2 videos about the experience of students and teachers using GLOBE Protocols.



2022-2023 ANNUAL REPORT

- Increase student and teacher participation in GLOBE, at least 5 trainings.
- One science camp with GLOBE Protocols for young students.