

INFORME ANUAL

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INTRODUCCIÓN

The GLOBE Program (Global Learning and Observations to Benefit the Environment Program) is an initiative that started in 2002 with the Ministry of Education and Environmental Agency in Paraguay. However, it started again after the director of the program visited Paraguay in August 2016.

The GLOBE program created a Paraguayan national network of teachers and students interested in Climate Change and STEM disciplines, increasing the amount of scientific data about Paraguay available online.

During the Pandemic, and because the science corner remains closed, we could not continue to receive visitors until July of 2021. However, we have started to resume activities and decided to deliver activities in both formats virtually via Zoom and in-person workshops going to local schools.

We adapted our content by celebrating World Environmental Day on June 5th and organizing workshops on mosquitoes protocols. Also, we visited schools in June and July with more mosquitoes protocols. Finally, we introduced other atmosphere protocols starting in July.

The Benjamin Franklin Science Corner is currently working on the Butterfly Campaign to collect data for October and November and working in collaboration with a local school. The GLOBE LAC Region organizes the Butterfly campaign, and it is in partnership with Uruguay, Argentina, Peru, and Paraguay.

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EDUCACIÓN

The Benjamin Franklin Science Corner has been working with local high schools to increase student and teacher participation in GLOBE. Also, the Science Corner has been using GLOBE protocols and the GLOBE Observer App during their science workshops and afterschool programs.

The science corner is visiting local high schools to teach students and teachers how to do GLOBE protocols. The frequently requested protocols are the atmosphere and biosphere. Also, the GLOBE Observer App continues to be downloaded by students.

The Art of Clouds is in Spanish, and it is part of the Americana Box. The Americana Box is a subscription box for low-income families with no access to the internet. Using the Art of Clouds, the families will be able to learn the name of clouds and famous pieces of art from famous painters. This activity introduced atmospheric sciences to 90 families in 2020; however, in 2021, the Art of Clouds was distributed to 210 families.

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CIENCIA

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 to know the name of the clouds using the cloud protocol. We are currently taking data using the GLOBE Observer App.

We hope to start with more protocols next year. We are currently building a workshop for December and January for teachers who would like to be part of the GLOBE community. We plan to include more teachers trained in new protocols.

Also, we plan to continue with the Science Club at the Science Corner and take more cloud observations and temperature observations.

This year we introduced the new butterfly and environmental factors protocols, and we have been working more closely with Argentina, Peru, and Uruguay.

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TECNOLOGÍA

The Science Corner has created a Larva printed in 3D to help identify parts of the larva during our classes of the GLOBE Zika Education and Prevention Program. We hope the 3D printed larva will help teachers and students identify body parts they are looking for under the microscope, such as the head, thorax, abdomen, and siphon.

We noticed it was much easier for students and teachers to explain the parts with the 3D-printed larva. Also, we took the 3D-printed larva to workshops at schools, and participants were much more interested in using the Mosquito GLOBE Observer App with the help of the 3D-printed larva.

We have continued to use the 3D printed larva, especially when we cannot find mosquito larvae to identify with the microscope in our Local Mosquito Workshops.

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COMUNIDAD

The Benjamin Franklin Science Corner has started working in the community with the citizen science app GLOBE Observer. We picked one group called CONCIENCIA and another group to use the GLOBE Observer eclipse app.

First, we trained the citizen scientists in two opportunities using the GLOBE Observer App: The Clouds Protocol and Mosquito Protocols. We will continue to work with both groups to make sure they are taking data for the Program.

In December 2020, the science corner trained a group of citizen scientists in Ayolas, Misiones, or the north of Paraguay to take data during the Eclipse on December 14th, 2020. It was exciting to see all the data from this group of citizen scientists.

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COMUNICACIÓN

The Benjamin Franklin Science Corner, the Scientific Society of Paraguay, and the United States Embassy in Asuncion use their Facebook to promote any GLOBE-related activity. Also, we use other social media platforms to promote GLOBE.

Consequently, the Science Corner features GLOBE teachers who are doing the protocols in their schools through their Social Media. Highlighting teachers in Social Media helps spread GLOBE in schools, and it also empowers the teachers doing GLOBE protocols.

As part of the GLOBE Zika Education and Prevention Program, we have many requests to take the program to the country's remote areas where mosquitos' diseases are high. The featured program at a local digital media to increase teachers' participation in the program.

STAFF

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THE GLOBE PROGRAM



Antonieta Rojas de Arias, is the current Country Coordinator of GLOBE Paraguay has a degree in education from the Universidad Andrés Bello in Venezuela, in biology from the National University of Asunción, a degree in public health from the University of Sao Paulo, Brazil, and a doctorate in zoology from the University of Wales, United Kingdom, in addition to several specializations, highlighting those of tropical diseases.



Claudia Rodríguez-Ortega is a plant biologist from the University of California Davis in Davis, CA. She is also the Benjamin Franklin Science Corner Coordinator. She supervises all the Science, Technology, Engineering, and Math program from the U.S. Embassy. Also, she is currently working in various community centers around Asuncion to improve people's perceptions on science.



Agatha Bóveda Aguirre, is a biologist pursuing her Master in education of Natural Sciences and a professional photographer. She has been teaching science for 6 years in private schools in Asunción, she is a GLOBE teacher and was chosen to go to GLE in Ireland this year. Also, she is a Master Trainer for the GLOBE Zika Education and Prevention Program. She also has publications of articles in national and the international press.



Alejandro Mendez Ferreira, is a senior student of Biotechnology at the National University. He is also part of the scientific initiation program at the Natural Resource Department of the National University. He is the regional coordinator or Allbiotech in Paraguay, an international organization that seeks to establish and strengthen a Latin American community that unites all segments of the bioeconomy ecosystem. GLOBE Master Trainer in mosquito larva protocol and the application of Mosquito Habitat. Volunteer and member of the Marketing Group of Clubes de Ciencia Paraguay.

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THE GLOBE PROGRAM



María Victoria Mendez Varela is a first-year student of Biology at National University. She has been volunteering with GLOBE at the Benjamin Franklin Science corner since we started the program in 2016. Also, she is a volunteer and Coordinator of the Science area in the Club Escuela Solidaria Paraguay, the first open school in Paraguay, with a 360 ° education methodology, for children from vulnerable communities.



José Osvaldo Ocampos Florentín, is a second-year student of Electronic Engineering at the National University of the Polytechnic School. He is a GLOBE Volunteer of the Benjamin Franklin Science Corner since 2016. He was a former participant of Clubes de Ciencia and he also volunteers at a local NGO called HablArte

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CONCIENCIA GLOBE Mosquito Habitat Mapper – JUNE 2021



Mosquito Protocol Training – From the **GLOBE Observer App** – Showing to university students of environmental sciences how to use the App. June 2021

THE GLOBE PROGRAM



**Local Mosquito Workshop at
Highschool – July 2021**



**Data Collection for the Butterfly
Campaign– October 2021**

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THE GLOBE PROGRAM

Presentation of Butterfly Campaign –
– October 2021

The screenshot shows a virtual meeting interface. On the left is a presentation slide with the following text:

- MINISTERIO DE EDUCACIÓN Y CIENCIAS
CENTRO EDUCATIVO LA AMISTAD
- ¡Buenos tardes a todos los presentes!
- Somos los alumnos del 8vo grado
- TUTORAS: Lic. CAROLINA BAEZ
Lic. CLAUDIA RODRÍGUEZ
- DIRECTORA: GRACIELA CUBILLA
- Asunción-Paraguay
Año: 2021

On the right is a grid of 18 video feeds showing participants. The names visible in the feeds are: Carolina Baez, Erica Morilla, Jessica Marín, Claudia Rodríguez, Guadalupe, Escobar Mercedes, Mari, Jairo Romero, Ángel Feha, Gabriela Castro, Hernán Torres, Camila Román, Francisco Trilla, Sandra Viloso, and Graciela Díaz.

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