

# INFORME ANUAL

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## INTRODUCCIÓN

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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 was reactivated after the director of the program visited Paraguay on 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.

In 2017, two trainings were held at the Benjamin Franklin Science Corner with the collaboration of the Ministry of Education, the Scientific Society of Paraguay, and three Master trainers from Uruguay. For these workshops, 31 schools with 80 teachers, and Peace Corps volunteers in the Atmosphere and Hydrosphere protocols.

In 2018, one of the GLOBE high school was selected to participate in the GLOBE Learning Expedition in Ireland. Also, the Benjamin Franklin Science Corner was selected to participate in the GLOBE Zika Education and Prevention Program.

Also, we continued to have our first Local Mosquito Workshop in the city of Ayolas, Paraguay with the aid of the Yacyreta Hydroelectric Power Plant.

In 2019, we had our first Local Mosquito Workshop in July in the city of Ayolas, Paraguay with students of the Environmental Department of the Universidad Nacional de Pilar. Also, we have had two more Local Mosquitos Workshops in the City of Coronel Oviedo with students of the Universidad Nacional de Caaguazu from the city of Oviedo and Concepcion.



## 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 continues to receive the visit of local high schools to learn how to do GLOBE protocols. The frequently requested protocols are the atmosphere and biosphere. Also, the GLOBE Observer App is frequently downloaded by students.

The NGO Fundacion Agora joined GLOBE in 2019 from the city of Minga Guazu, Paraguay. Their science club has been using the GLOBE program for several months now. They started with the Mosquito Habitat Mapper as part of their citizen science project. Their club has been collecting data by taking photos with cell phones and using several materials loaned to them by the Benjamin Franklin Science Corner.

In May, the Science Corner with the help of the LAC Regional Coordination Office was able to bring the Master Trainer Ana Prieto from Argentina to give a workshop for 36 teachers from 17 regions/departments of Paraguay. For the workshop, we worked closely with the Ministry of Education and the Regional Coordination Office.

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## CIENCIA

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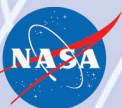
Through GLOBE the Benjamin Franklin Science Corner volunteers have learned to measure temperature, relative humidity from the atmosphere protocols and other hydrology instruments. Also, we have learned the name of the clouds using the cloud protocol.

We hope to start with more protocols in October once our new volunteer from AFS takes charge of the GLOBE program. He will oversee the program by taking measurements using GLOBE Observer App.

Also, we plan to continue with the Science Club from the Chacarita Community Center and take more cloud observations and temperature observations.

In the past, we have taken part of GLOBE campaigns in 2019 we would like to continue to be part of the Surface Temperature Field Campaign and the Mission Mosquito Community.

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## TECNOLOGÍA

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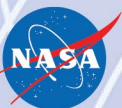
In terms of technology the Science Corner has created a Larva printed in 3D to help identify parts of the larva during our classes of the GLOBE Zika Education and Prevention Program. We hope the 3D printed larva will help teachers and students to identify parts they are looking for under the microscope. For example, the siphon and the body parts.

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 the Mini Maker Faire 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 specially when we cannot find mosquito larvae to identify with the microscope in our Local Mosquito Workshops.

The Science Corner was able to install a WeatherHawk system with the help of one of its partners at the Binational Center located two blocks away. This new weather system will be sending data to GLOBE and it will be receiving schools to visit the station.

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## COMUNIDAD

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The Benjamin Franklin Science Corner has started working in the community with a local community center. We decided to implement the GLOBE Observer App. The community center is located at the entrance of the neighborhood La Chacarita.

Also, since July of 2019 we have been working university students from the National University of Caaguazu to prevent Dengue cases. The students are working on mosquito awareness to prevent dengue, zika y chikungunya disease in the city of Coronel Oviedo. They are organizing awareness days and walks around their neighborhood looking for possible breeding sites. They will be using the GLOBE Mosquito Habitat mapper to collect data.

The same project will be repeated in the city of Concepcion.

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## COMUNICACIÓN

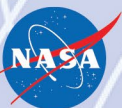
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The Benjamin Franklin Science Corner, the Scientific Society of Paraguay, and the United States Embassy in Asuncion is using their Facebook to promote any GLOBE related activity. Also, we use other social media platforms to promote GLOBE.

Consequently, the Science Corner is featuring GLOBE teachers who are doing the protocols in their schools through their Social Media. This 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 a lot of request to take the program to the remote areas of the country where mosquitos' diseases are high. This program was featured at a local digital media to increase teachers participation in the program.

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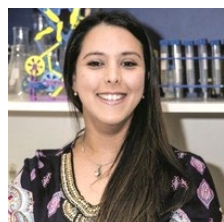


## STAFF

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**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.



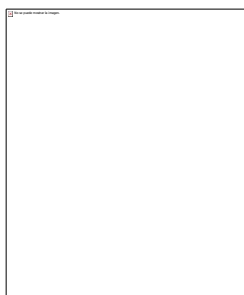
**Alejandro Mendez Ferreira**, is a senior student of Biotechnology at the National University. He is also part of the scientific initiation program at the Natural Resource Department of the National University. He is the regional coordinator or Allbiotech in Paraguay, an international organization that 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.



# 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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# THE GLOBE PROGRAM

## APÉNDICE

### Agora Foundation GLOBE Mosquito Habitat Mapper – August 2019



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# THE GLOBE PROGRAM



**Local Mosquito Workshop at  
Ayolas, Paraguay – July 2019**



**Workshop – Educación Ambiental  
with Ana Prieto – May 9 and 10, 2019**

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# THE GLOBE PROGRAM

**Local Mosquito Workshop** – Coronel  
Oviedo, Paraguay – July 2019



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# THE **GLOBE** PROGRAM



**GLOBE Trees** – From the **GLOBE Observer App** – Showing to university students of environmental sciences how to use the App. July 2019

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