

# SURINAME ANNUAL REPORT

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# THE **GLOBE** PROGRAM

## TABLE OF CONTENTS

INTRODUCTION	3
EDUCATION	4
SCIENCE	5
COMMUNITY	6
STAFF	7
APPENDIX	8

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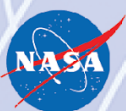


## INTRODUCTION

Suriname joined the GLOBE program in 1997 and after a good start became somewhat dormant in the early 2000s. In 2008 Green Heritage Fund Suriname was asked to support the implementation of the GLOBE Program in Suriname and since 2010, Monique Pool, Director of Green Heritage Fund Suriname, has held the Country Coordination for the GLOBE Program in Suriname. This position was accepted out of the conviction that GLOBE has the potential to teach children the scientific method from an early age and make them into citizens that are able to think for themselves and investigate and explore the world around them. It takes them out of the school banks into the world around them and connects them to the natural world.

In the past years, although progress has been slow, the GLOBE Suriname Program is starting to get a foothold in education and participation is increasing. This is without a doubt a result of the translation of the materials in Dutch - which is the official school language - the enthusiasm of the teachers, students and the assistant country coordinator. The Mosquito program received funding through the global Mosquito program by the US government and through the GLOBE program from 2017 through 2020. For mangrove monitoring and the related GLOBE atmosphere and hydrosphere protocols there was funding available through the See Marine Interactions project which was funded by the IUCN Netherlands Committee and WWF NL and the CLME+: Catalysing Implementation of the Strategic Action Programme for the Sustainable Management of shared Living Marine Resources in the Caribbean and North Brazil Shelf Large Marine Ecosystems, Demonstration Ecosystem Based Management Project in Suriname which was funded by the GEF.

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## EDUCATION

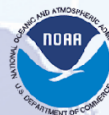
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During the school year 2020-2021, we were unable to implement the GLOBE project in schools. This is due to the COVID-19 pandemic. The GLOBE assistant country coordinator was asked to develop biology lesson plans for secondary and high-school students. She will be including the GLOBE clouds and mosquito protocols in these plans.

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## SCIENCE

### Mangrove Protocol

As the Green Heritage Fund Suriname is working a lot in the marine environment and the coastal plain where the larger part of our population is located, a need was felt to work on a biosphere protocol that would study an ecosystem important in mitigating the effects of climate change. For that reason, we have started to develop a biosphere protocol fit for our tropical region. The first draft of the mangrove protocol is now basically completed and can be shared with colleagues for feedback. We organized a meeting with dr. Lola E. Fatoyinbo Agueh, a NASA research physical scientist, for feedback on the mangrove protocol and have agreed to share the final draft in December. We have received funds from the IADB that will enable us to continue the development of the mangrove protocol in 2022.

The mangrove protocol should be considered a bundle including the following protocols:

Vegetation survey protocol

Bird survey protocol

Crab burrow protocol

Aerial root density protocol

Salinity protocol

Water temperature protocol

Water transparency protocol

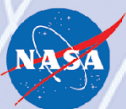
pH protocol

Dissolved oxygen protocol

Nitrate protocol

Alkalinity protocol

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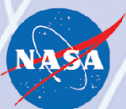


## COMMUNITY

We are in the progress of developing activity boxes for students in the districts of Nickerie and Coronie. The idea for the activity boxes came from Claudia Rodriguez-Ortega from Paraguay who has developed these boxes for her students.

In the summer the GHFS organized activities for the children of the districts Coronie and Nickerie as well as Galibi, an indigenous village located in the district of Marowijne. Using stories, experiments and arts and crafts, the participants learned about the hydrological cycle, weather, water density and mangroves. We developed a short film of the activities at Galibi and shared this with the community and on our social media pages ([https://www.instagram.com/p/CVQYQ42gAoj/?utm\\_source=ig\\_web\\_copy\\_link](https://www.instagram.com/p/CVQYQ42gAoj/?utm_source=ig_web_copy_link)).

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## STAFF

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The country coordinator of Suriname is Monique Pool, employed by the Green Heritage Fund Suriname, assisted by Meriam Kalloe, assistant country coordinator, who is a teacher in Paramaribo, employed by the Ministry of Education, Science and Culture. Cheyenne Samson is a GLOBE teacher and master trainer working at the Green Heritage Fund Suriname who has focused her attention on the Mosquito protocol. Genevieve Sontowinggolo is a GLOBE teacher and trainer also working at the Green Heritage Fund Suriname who has focused her attention on the Mangrove protocol.

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## APPENDIX

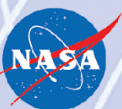


*Participant painting mangroves on their shirt in Galibi*

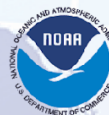


*Participant placing with his shaving cream clouds and blue rain*

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# THE GLOBE PROGRAM

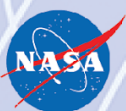


*Participants looking at their lava lamps*



*Participants during the water game*

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