

SURINAME ANNUAL REPORT 2020



TABLE OF CONTENTS

1. Introduction.....	
.....	
2. Education	
.....	
.....	
3. Science	
.....	
.....	
4. Technology	
.....	
...	
5. Community.....	
.....	
6. Communication	
.....	
7. Staff	
.....	
.....	

8. Appendix

.....

.....

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. Over the past years especially the Mosquito program received funding through the global Mosquito program by the US government and through the GLOBE program. For mangrove monitoring and the related GLOBE protocols there was funding available through the See Marine Interactions project which is 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 is funded by the GEF.

EDUCATION

During the school year 2019-2020, the GLOBE project was implemented at just one high school in the District of Nickerie. This drop in activities is due to the COVID-19 pandemic. The Assistant Country Coordinator, who works as a biology teacher in the District of Nickerie, developed a guide for her students using the GLOBE clouds and mosquito protocols. Her students used this guide to do their fieldwork while they were home, as they were unable to attend school due to the pandemic. Their reports were then used to calculate their final grade.

Advanced Teacher Training Institute (IOL)

A good collaboration is still maintained with the Advanced Teacher Training Institute.

Natuur-Technisch Instituut (NATIN)

This year due to the COVID-19 pandemic we did have three students from the NATIN who did their final graduation work with us, however, no GLOBE protocols were applied.

List of Schools

As a result of the use of the GLOBE observer app for both cloud observations and the mosquito habitat mapper a better overview is obtained of the different institutions that have become involved in GLOBE in Suriname. It is especially on account of the Mosquito trainings that additional institutions have joined. Unfortunately, not all of these institutions are actively contributing data.

Suriname educational institutions

1. Advanced Teacher Training Institute IOL
2. Algemene Onderwijs Bibliotheek
3. Alpha Max Academy
4. Anton de Kom University
5. Anton Resida MULO school

6. Curriculum development department of the Ministry of Education, Science and Culture
7. Ewald P. Meyer Lyceum
8. G. Sewrajsingh School
9. LTO Reeberg
10. Mgr. Wulfingschool
11. Ministry of Education, Science and Culture
12. Mr. Dr. J. C. de Miranda Lyceum
13. MULO Brokopondo
14. Mulo Ellen
15. Mulo Geyersvlijt
16. Mulo Kerklaan
17. Nabawi School
18. NATIN
19. O.S. Afaka
20. O.S. Brownsweg
21. O.S. Groot Henar Polder
22. O.S. Kuldipsinghproject
23. O.S. Reynsdorp
24. O.S. Sophia's Lust
25. O.S. Van Petten Polder
26. O.S. von Freyburg
27. Petrus Claver School
28. Shri Rudra school
29. Sur. Pedagogisch instituut
30. Tata Colin school
31. University of Applied Science & Technology
32. V.O.J. Albina

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. We have worked on elaborating a mangrove protocol of which the draft is now basically completed and can be shared with colleagues for feedback. We have continued our mangrove activities with two communities and have received funds from the IADB that will enable us to continue these activities in 2021.

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

TECHNOLOGY

In the past year no specific steps were taken to work on the technology component of the GLOBE program.

COMMUNITY

In February 2020, The National Red Cross approached us to support their work of raising awareness about the dangers of mosquitoes in three of the most populous administrative jurisdictions in Paramaribo. During this event we had the opportunity to engage with the local youth and teach them about mosquitoes. As part of the community outreach collaborations are entered into where large companies will have their staff trained as trainers and thus help spread the awareness about fighting mosquito breeding habitat, these include McDonalds and the State Oil Company.

We are in the process of uploading our mosquito workshop (in Dutch) to Canopy labs, an online learning platform. This will enable us to still train community members during the pandemic. People will be able to watch the workshop videos in their free time, make quizzes to test their knowledge and collect data at their own pace. They will also be able to engage with each other on the platform and share their experiences with other participants.

There is an interest by Canopy Lab to share these resources further with the community in South America and thus we could reach a larger audience in case we can collaborate with GLOBE programs in the region to offer the course in Spanish, Portuguese and English.

In addition, we consulted with Claudia Rodriguez-Ortega from Paraguay about the activity boxes she has developed and started developing these too for the community in Coronie to see how these activity boxes would work in this time of COVID-19.

List of Community Organizations

1. Buurt Organisatie Pont
2. Buurt Organisatie Ramgoe
3. Climate Change Awareness Group Suriname
4. DA 91

5. I Speak
6. JCI Paramaribo
7. Kalebaskreek community
8. Medical Mission Suriname
9. National Youth Parlement
10. Pater Anton Donicie Ranger/Boy/Girl Scouts Group
11. Rotaract Paramaribo
12. Suriname Red Cross
13. Sustainable Development Goals Youth Ambassadors
14. Vrienden van de bloedbank Nickerie
15. Vrouwenvereniging Palisadeweg en omgeving
16. Youth Advisory Group
17. District Commissioner's Office South-West

STAFF

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 trainer also working at the Green Heritage Fund Suriname who has focused her attention on the Mosquito protocol.

Appendix



Figure 1 GHFS at the Red Cross Education Day



Figure 2 Children looking at the mosquito larva