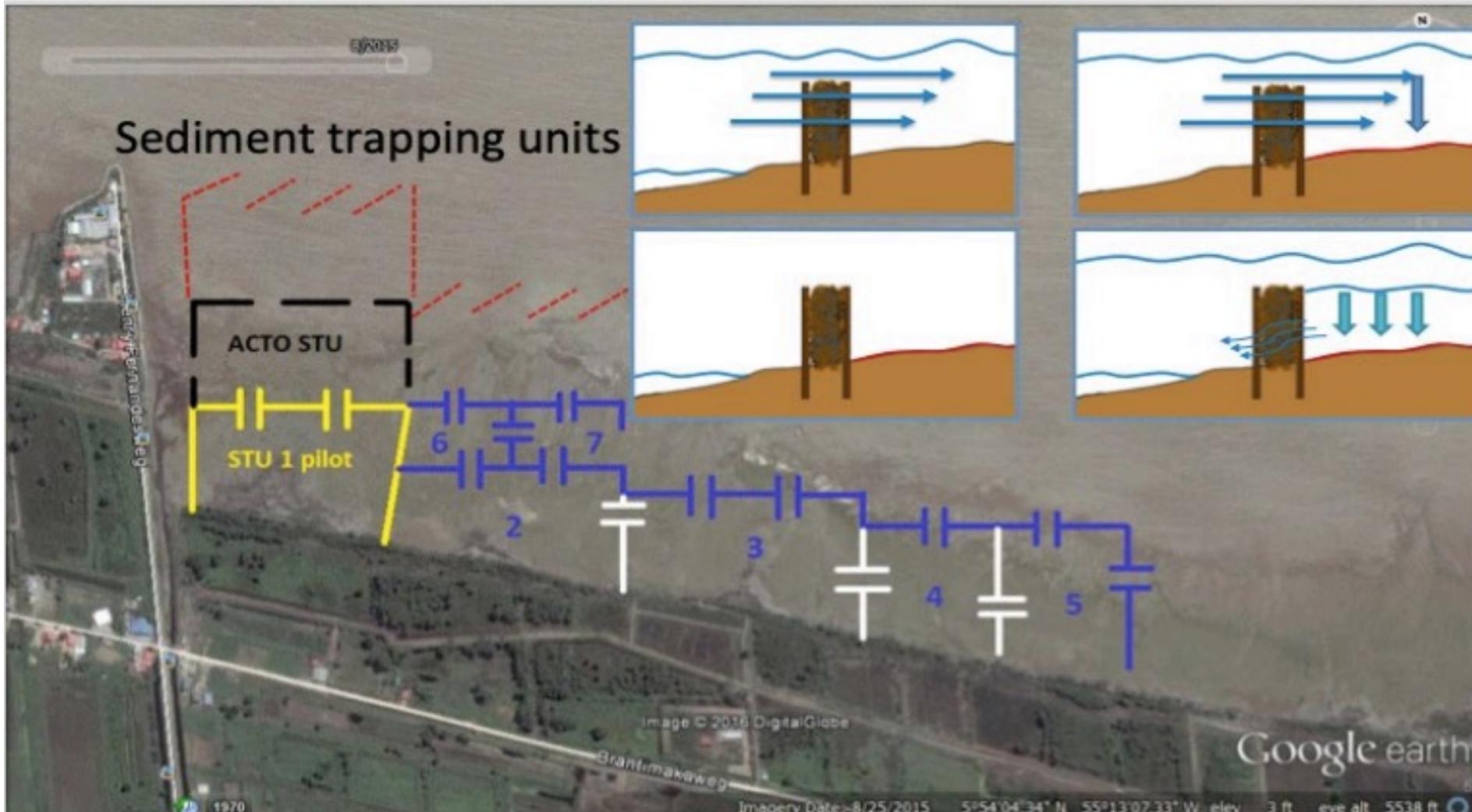






MONITORING OF COASTAL LINE (SEDIMENT TRAPPING UNITS) IN SURINAME BY PROF. S. NAIPAL



ENVIRONMENTAL ACTIVIST ADDRESSED POLLUTION IN GOLDFINING AREA IN THE INTERIOR



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USE OF DRONE TECHNOLOGY



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Mapping mangrove dynamics and colonization patterns at the Suriname coast using historic satellite data and the LandTrendr algorithm

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Highlights:

- Mangrove dynamics were analysed using satellite images between 2000 and 2018.
- The coast of Suriname is characterized by mangrove gain and loss linked to migrating mud banks.
- Mangrove expansion is fast; NDVI-values increase from 0 to 0.7 within 3 years.
- Satellite images provide insight into various spatial patterns of mangrove colonization.





SBB: Government Foundation responsible for Forest Management

Recent Projects on Earth Observation application:

- **ACTO project: Monitoring Forest Cover in the Amazon Region.** Duration: 2011-2018

Producing data on forest cover, land use and land cover and deforestation with satellite images,

In collaboration with other countries within the Amazon rainforest.







Recent project (continued):

- ***REDD+ for the Guiana Shield: Duration: 2013-2015***

Regional project with French Guiana, Guyana and Brazil. Mapped gold mining, among other things, and the waterways that have been polluted by gold mining, using satellite images.

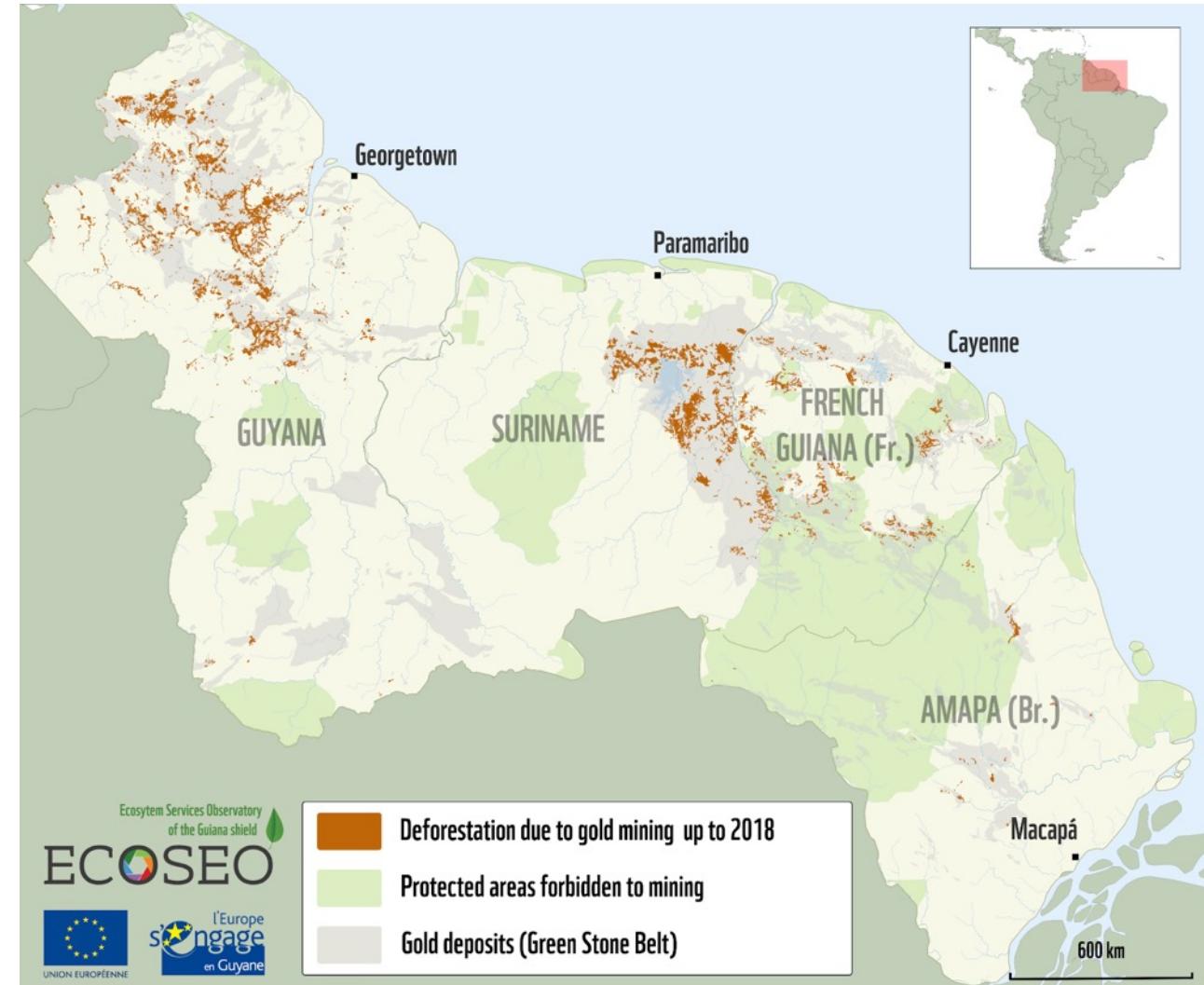
- ***REDD+ Suriname program:***

Setting up a national forest monitoring system, with satellite land monitoring as one of the components.

ECOSEO project (2019-2021) in collaboration with WWF, Suriname, Fr. Guyane and Brasil

Mapping Gold Mining
activities & Change in
Land Use and Land Cover

Addressing three major
ecosystem compartments:
carbon, water and
biodiversity.





Current project

- ***EU-Multi-annual Indicative Programme (MIP) 2021-2027 project:***

Priority area: “An EU-Suriname Forest Partnership for the protection, restoration and sustainable use of Suriname’s rainforests and mangroves.”

SBB is one of the implementing agencies to Maintain/continue the National Forest Monitoring System, including the satellite land monitoring system, where remote sensing technology is applied to monitor the forest in Suriname.

GREEN HERITAGE FUND



PROTECTING NATURE & WILDLIFE IN SURINAME

GHF: Mainly committed to protecting dolphins, sloths, armadillos and anteaters.

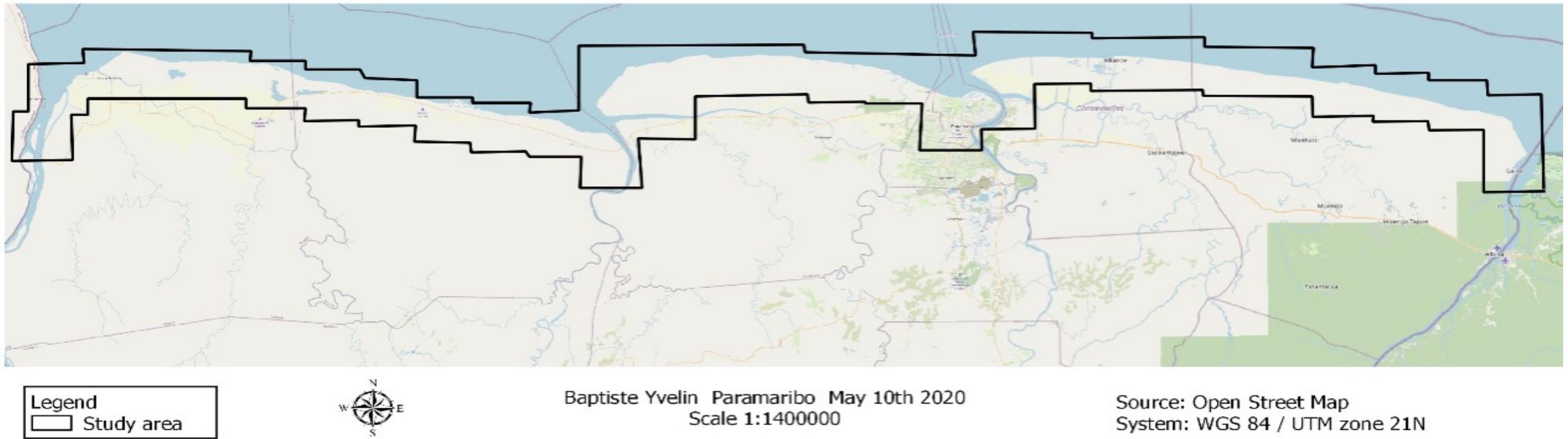
- *Creation of Environmental Sensitivity Index Maps of the Surinamese coast*

Master's Thesis by Baptiste Yvelin, Universita di Corsica Pasquale Paoli

The protocol was to compile datasets from the Participatory 3-Dimensional Modelling (P3DM), a project done in 2022 by Tribal Peoples Development, a consultancy group, recruited by WWF Guiana, GHFS and the Nature Conservation Division of the Suriname's Forest Service (SBB), into Environmental Sensitivity Index (ESI) Maps.



STUDY AREA



The study area covers the entire coastal zone which consists of 386 km of coast and deltas.

It is focused on the coastline, going until 5 nautical miles into Suriname's territorial sea,
and 10 km inland (between 20 and 25 km for the deltas)

NZCS & CMO/ANTON DE KOM UNIVERSITY OF SURINAME

NZCS: National Zoological Collection Suriname & **CMO:** Centre for Environmental Research within the Anton de Kom University

- **Main task:** to develop an overview of the Fauna of Suriname, by working together on building a Reference Collection for the Fauna of Suriname and using Fauna as Indicator Species in ecological and biological research.
- **Current use of Earth Observation Tools:** In different research activities, mainly in creating distribution maps for species.
- **Future project (in preparation phase):** Use of flyovers to generate satellite images.

