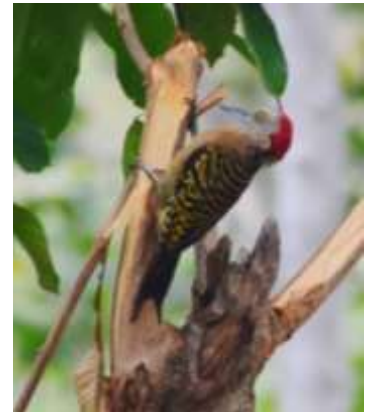



Preserving Biodiversity in Haiti

The State of Research



- 
- A photograph of a tree with several toucans perched on its branches against a clear blue sky. The tree has large, green, lobed leaves and a thick, dark trunk. The toucans are dark green with white faces and large, colorful bills. One toucan is prominently visible in the center, looking towards the camera. Another is partially visible to its left, and a third is further up the tree. The background is a bright, clear blue sky.
- **Quick environmental facts about Haiti**
 - **Brief history of research on biodiversity in Haiti**
 - **Great obstacles to research in Haiti**
 - **Main impacts of the lack of research**

Haiti : Quick environmental facts

- Part of the neotropics
- Second largest island in the Caribbean
(includes 5 satellite islands that have their own endemicity)
- In the center of the migration route of many species of migratory birds and insects
- Has both coral and volcanic origins
- Altitude ranging from 0 to 2 692 meters high (2 659 m found on Google Earth) giving various relief forms and micro-climates



- 9 classes of soils, facilitating the development of a high flora biodiversity

- Various ecosystem types :

9 Holdridge lifezones, 5 ecoregions, 13 biogeographical regions, 10 agroecological zones)

- 5 climat types (*Köppen classification*)

- High endemism rates (37% of vascular plants / 75% of vertebrates)



Brief history of research on Haitian biodiversity



1- 17th-18th century : First inventories and collections by french colonists and missionaries (*Charlevoix, Labat, Nicolson*), botanists and naturalists (*Plumier, Buffon, Descourtilz, etc.*)



2- End of 19th century to first half of 20th century : terrestrial aquatic and marine data collection, mainly oriented for full exploitation (*few haitian researchers under foreign control – US occupation*) Eckman, Baker, L.G. Tuppenhauer

Main motor of researches until last decades of 20th century :

discovering of new territory + resource exploitation



3- 2nd half of 20th century : considerable decrease of researches and departure of many researchers due to sociopolitical turmoil and dictatorship ;

4- End of 20th century : shy recovery of researches in very few domains (birds and marine life) depending on needs, interests of the moment and available funding. Specialists training still scarce.

5- 21th century :

- Slight increase of haitian academic researchers (*mostly young specialists trained outside that return home*)
- increase of research mainly conducted by foreigners on critical ecosystems, herpetology, ornithology
- many institutions and local authorities not informed,
- repatriation of reports and studies without sharing with locals
- poorly diverse research (focus on highly degraded ecosystems recognized to have a high level of biodiversity)
- Funding of training for national specialists still scarce
- Level of local diplomation still low and unaffordable for the majority.

Main motor for doing researches :

Most of 20th century :

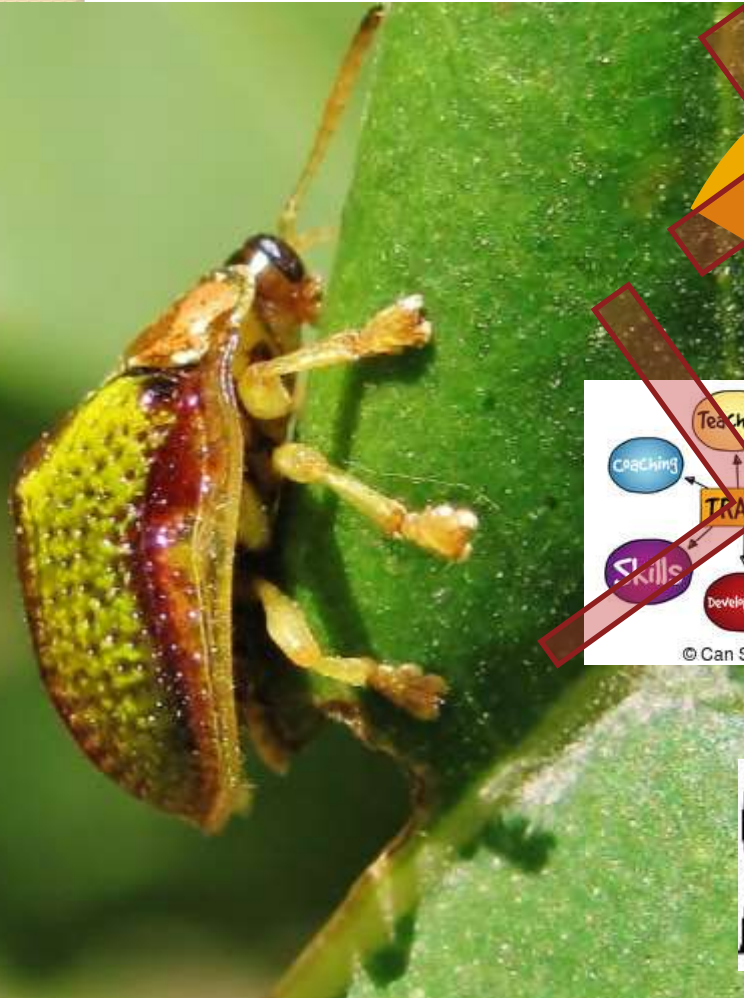
ressource exploitation

End of 20th century until today:

Drastic loss of biodiversity .

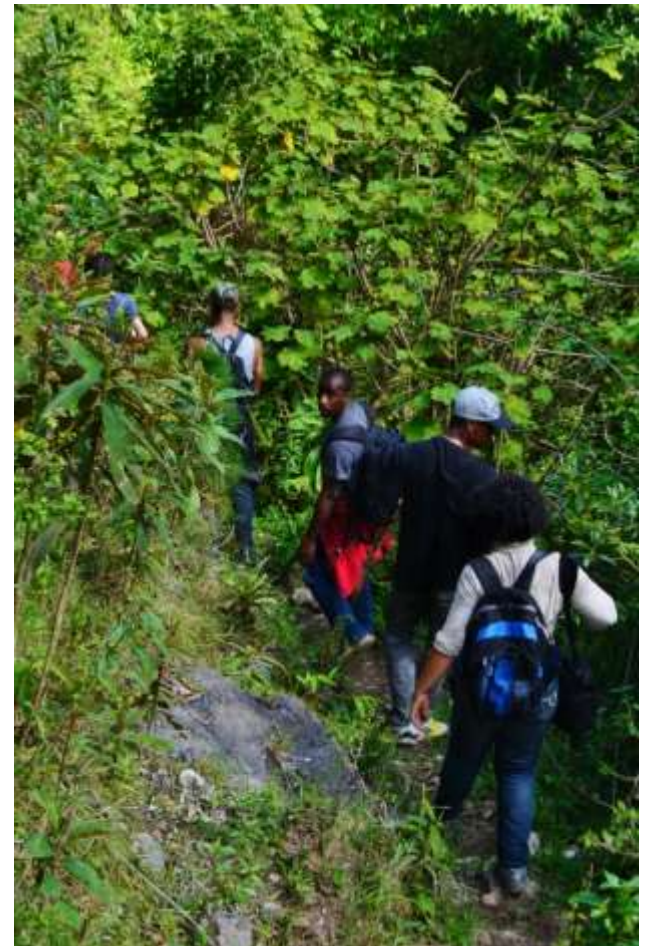
Need to cope with the disastrous effects on locals.

Great obstacles to research in Haiti



- Lack of *INTEREST* from the authorities
- Lack of *FUNDING* for the establishment of laboratories fully equipped and well managed by good research unit staff
- Lack of *INVESTMENT IN THE CORRECT FIELDS* that lead to ecological problems solving
- Lack of *TRAINING* in these appropriate fields
- Lack of *OPPORTUNITIES* for young researchers to work in the field of their research.

- *TERRAIN DIFFICULTIES* due the nature of terrains themselves :
 - climate, land property, area extension ;
 - rapid changes in the environment due to habitat loss, meteorological phenomenon, transformation of land occupation
 - difficulties with associated logistic
- *OTHER PRIORITIES* chosen by authorities due to social and political reality – emergency actions prioritized by national authorities and international organizations
- Researches *RARELY LEAD TO DECISION MAKING* nor conservation actions and rely in binders
- *DISCOURAGEMENT* from potential students and researchers

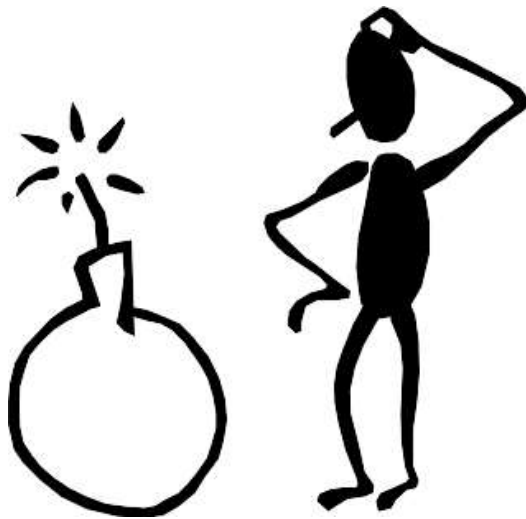


Main impacts of the lack of research *what does it do ?*

- Biodiversity cannot be correctly observed, followed and preserved ;
- Lack of knowledge about actual status of biodiversity ;
- Impossibility to accurately measure the regular changes, the frequency of different changes in land occupation that may occur ;
- Lack of understanding the reasons (or the probability) of rise or decline of certain species.



- Research is not seen as a valuable field to invest self into
- Actual researchers are not valorized
- Studying local sites seems to have no value despite the urge to solve environmental problems that underly social, economic and political problems
- Always same decisions are taken in regard of environment protection. It worsens the situation.



But...





Nevertheless...

what's actually going on locally ?



- FoProBim (marine and coastal life)
- Société Audubon Haïti (avifauna, herpetofauna)
- Jardin Botanique des Cayes (flora restoration)
- Universities (agricultural science)
- Wynne farm ecological Reserve
- UNEP-UNDP
- UNESCO-MAB
- Reefcheck
- more



THANK YOU !



Manneville Source