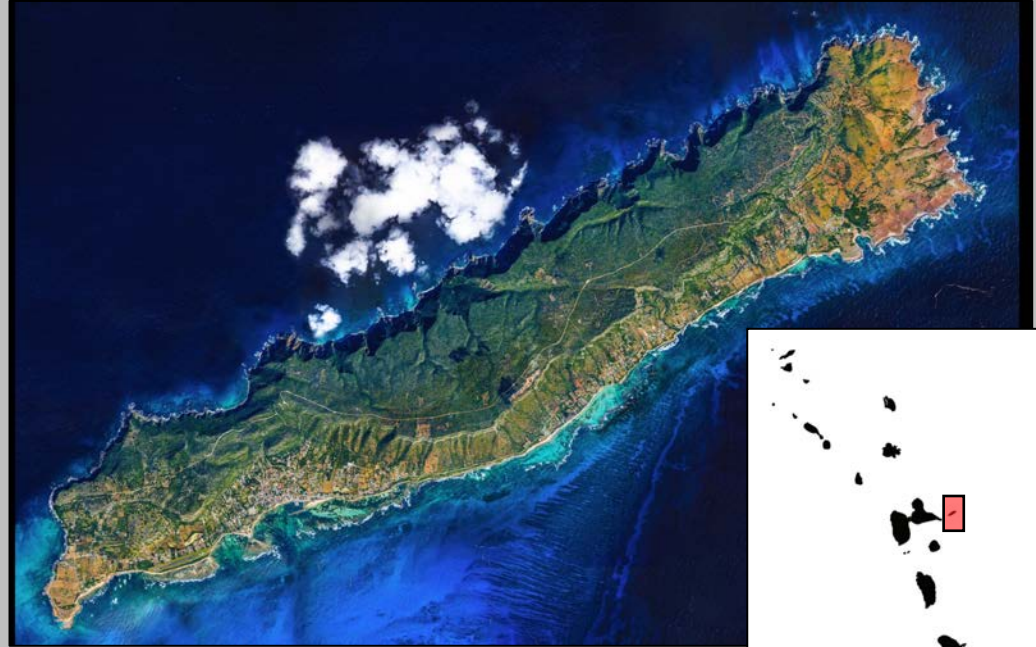


Small scale mapping as a tool to identify high priority area for the conservation of the habitat of *Iguana delicatissima*



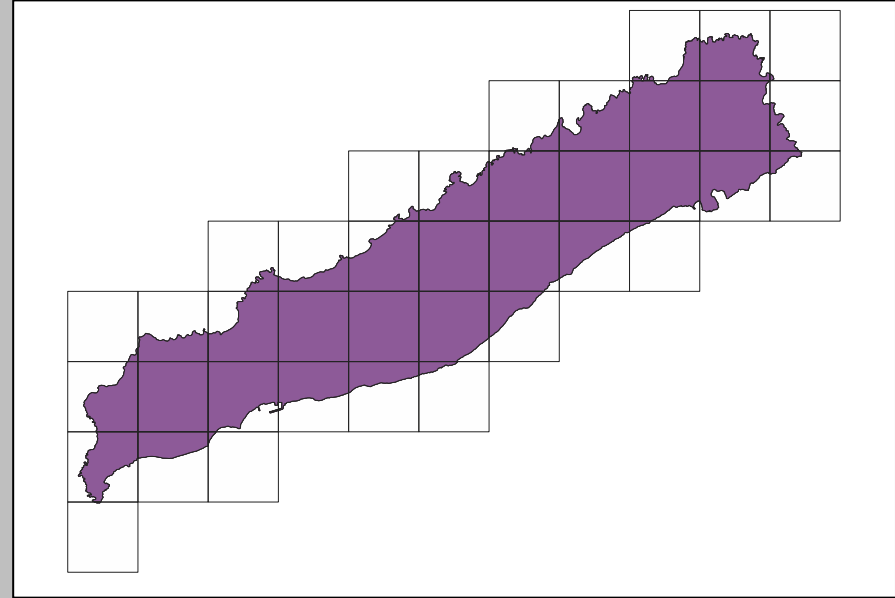
La Desirade

- Area : 22 km²
- Elevation : max 270 m
- Urbanization on the south coast
- Cliffs in the north
- Forests and Bushes on the plateau



Method

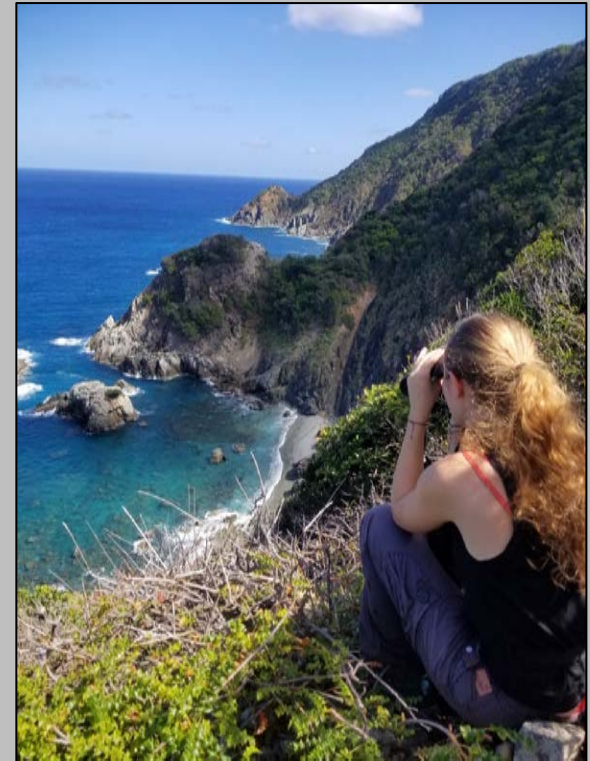
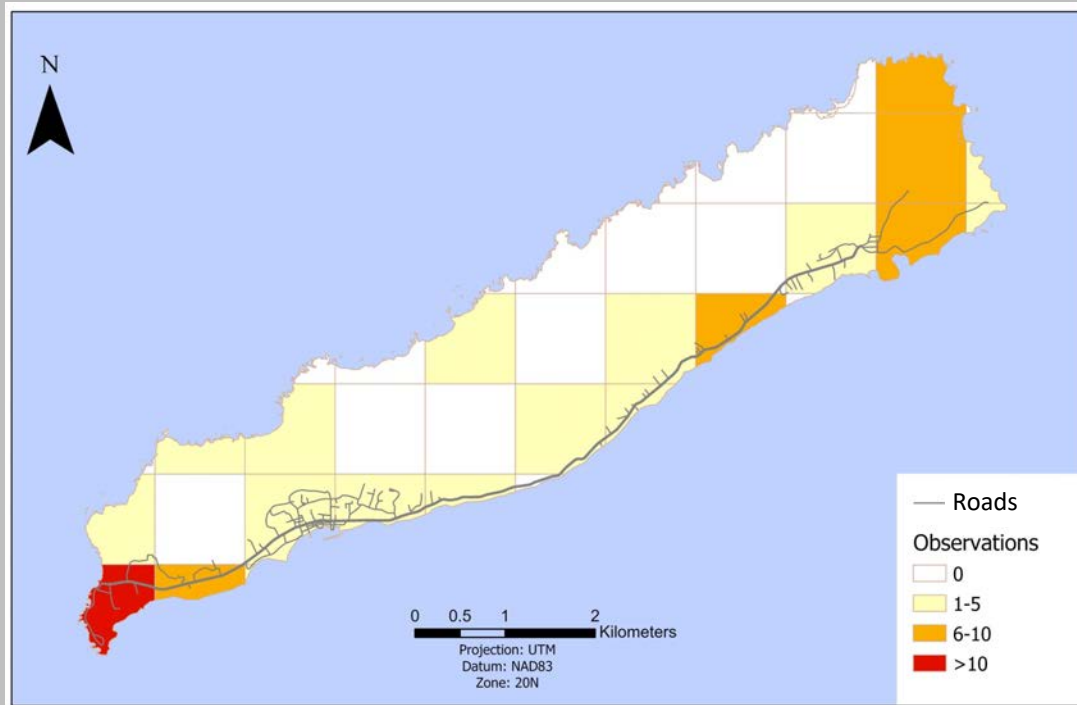
- 39 cells of 1 km²
- 9 variables related to:
 - *I. delicatissima* presence and habitat use (3)
 - Anthropogenic pressures (3)
 - Protected areas (1)
 - Natural threats (2)



= > Global score defining the need for protection of the habitat

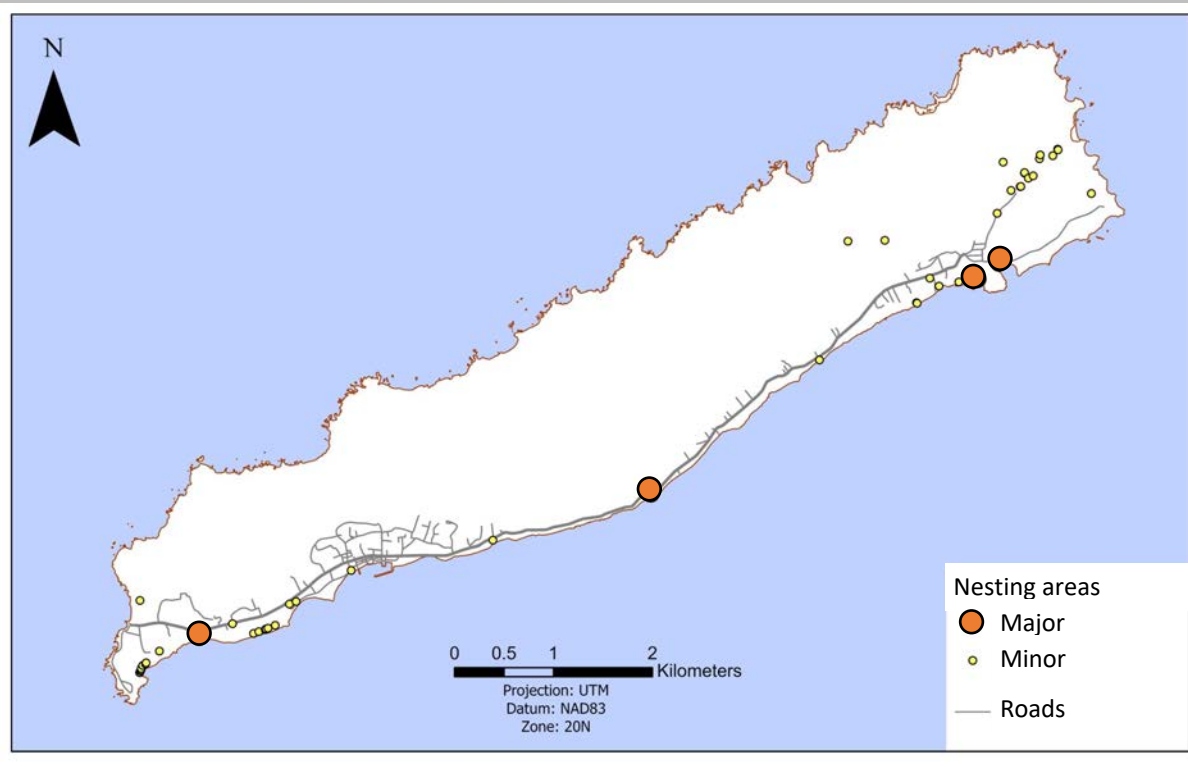
Variables: Number of iguanas/cells

- Line transect survey : 1 hour /cell / 2 obs.
- 2 surveys: Oct/Dec and Jan/Mar



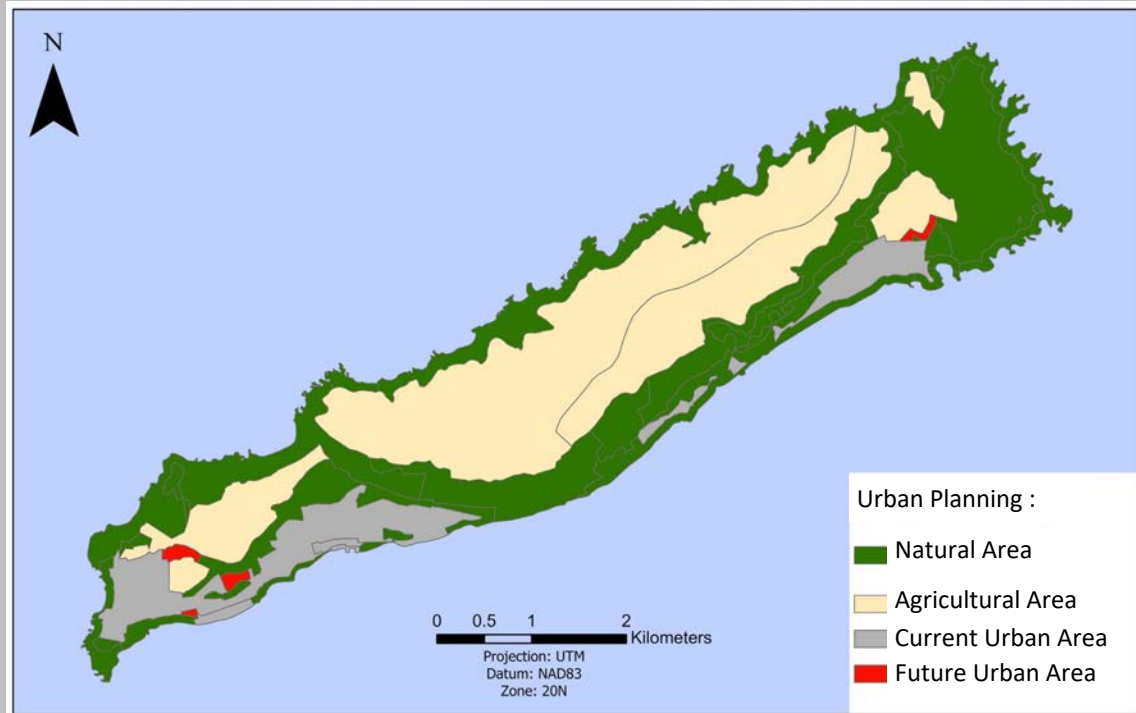
Variables: Nesting areas

- Number of minors and majors nesting areas/cells



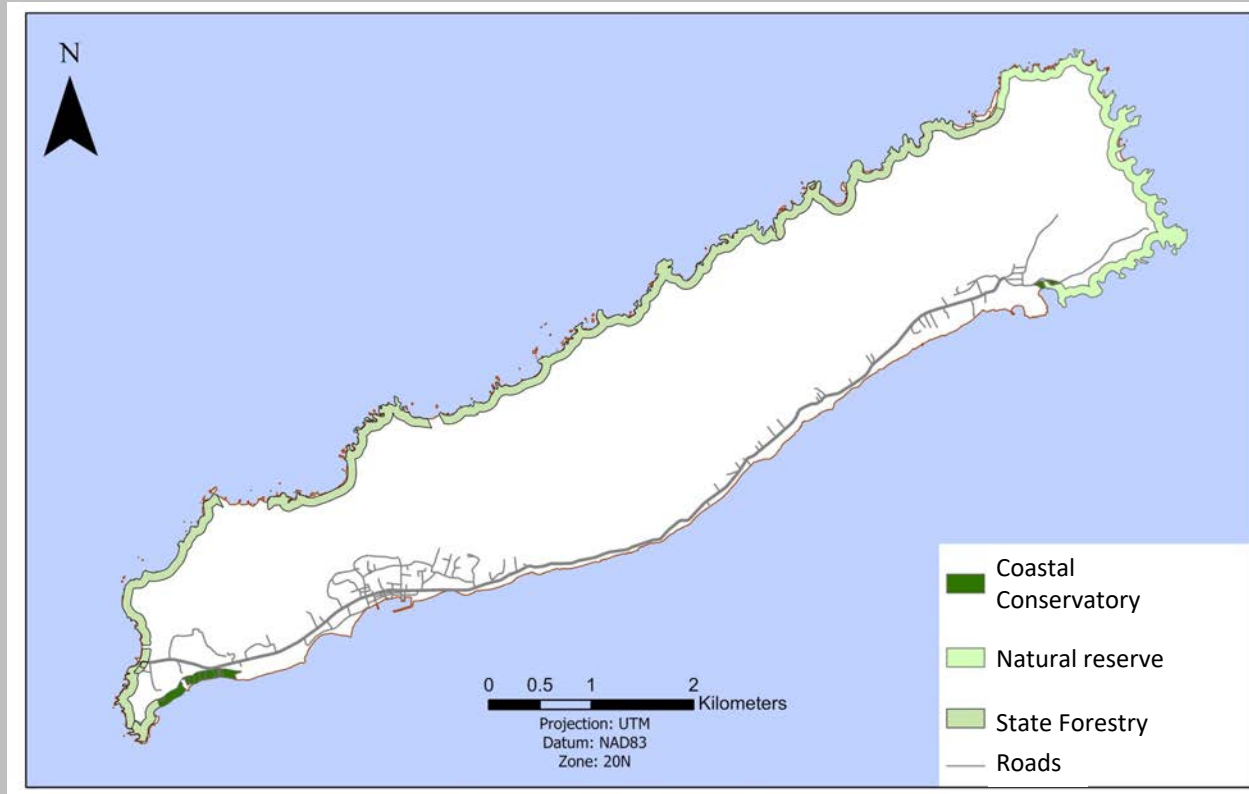
Variables: Urban planning

- Different functions mean different protections



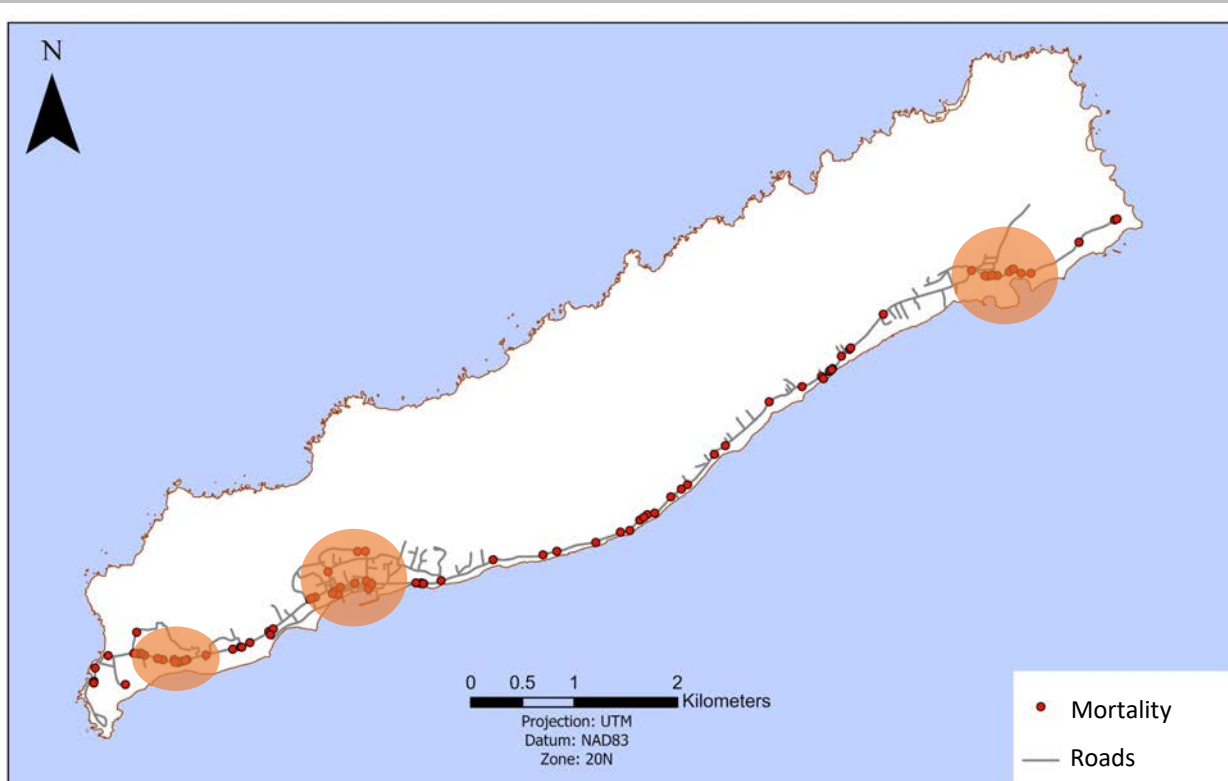
Variables: Protected Areas

- Natural reserve, Coastal conservatory and State Forest



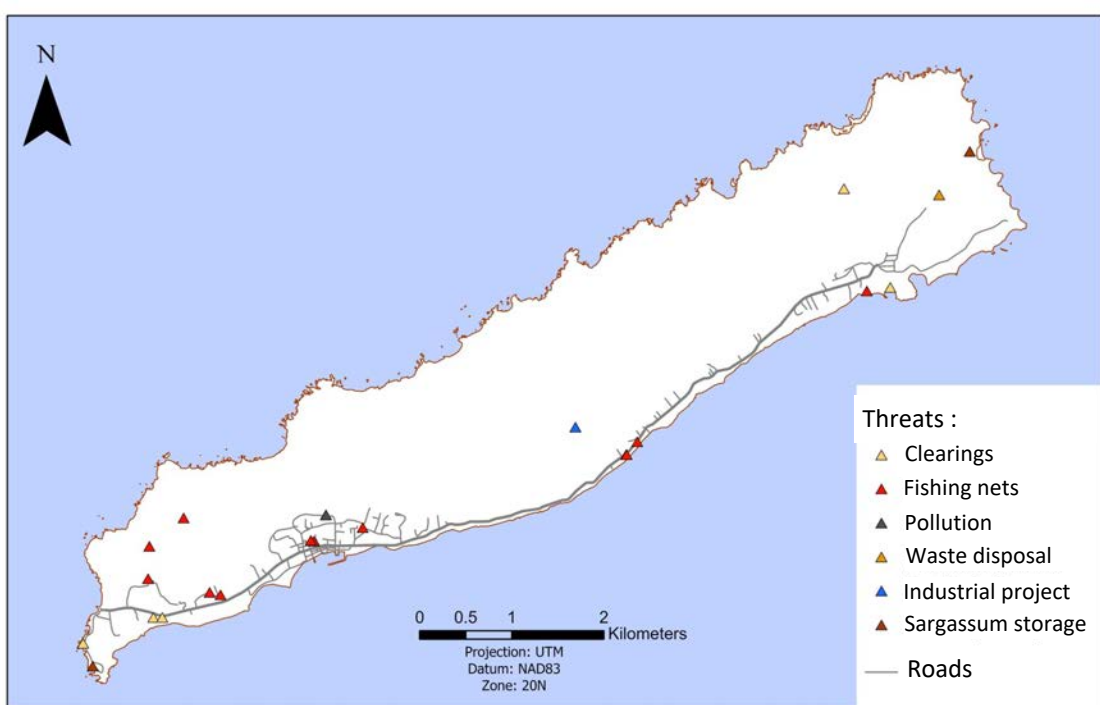
Variabe: Road mortality

- May to Sept 2020 -> 70 dead iguanas found



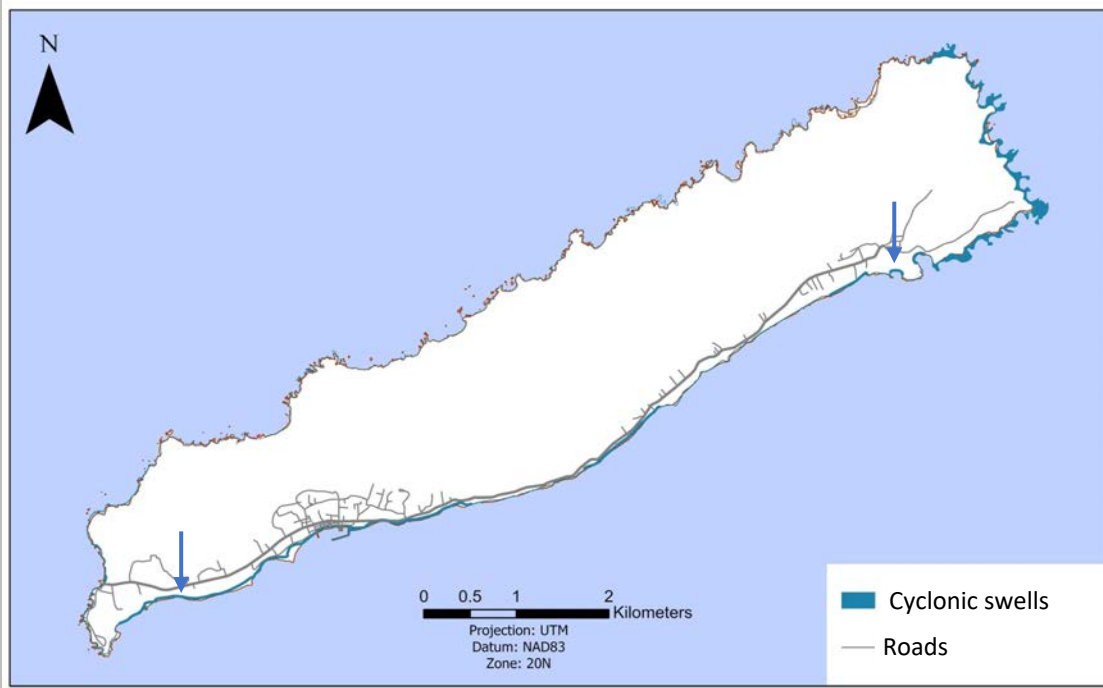
Variables: Other anthropogenic threats

- Fishing nets, clearings, pollution, industrial projects, *Sargassum* storage



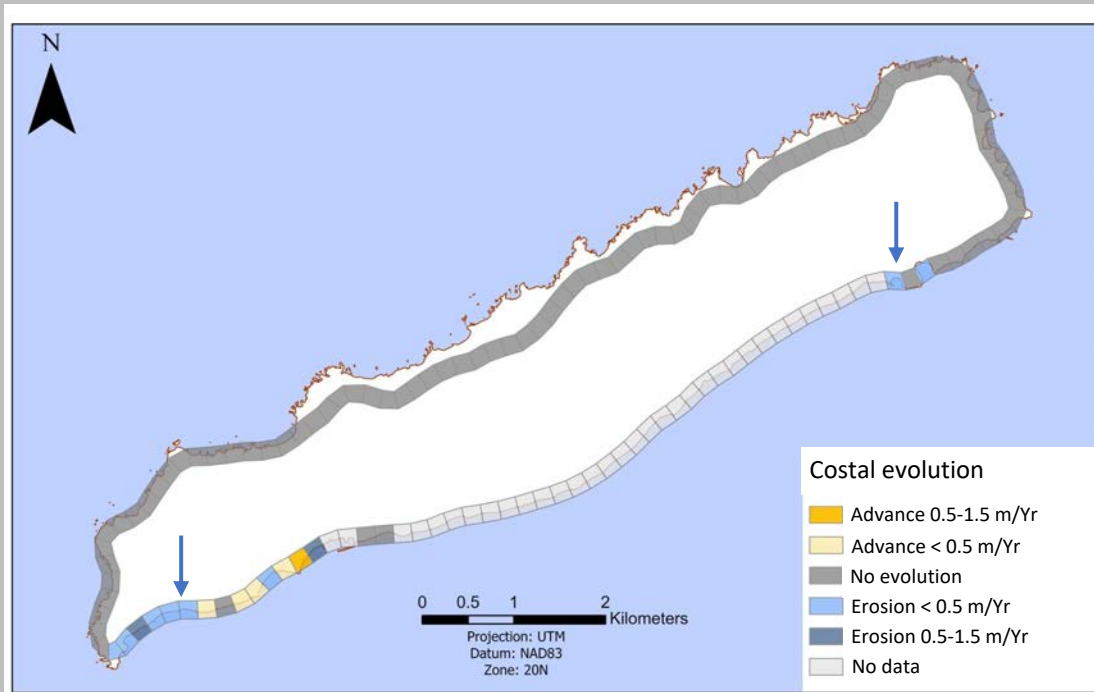
Variables: Risk of cyclonic swells

- More risk to the South and East
- Threatens nesting areas



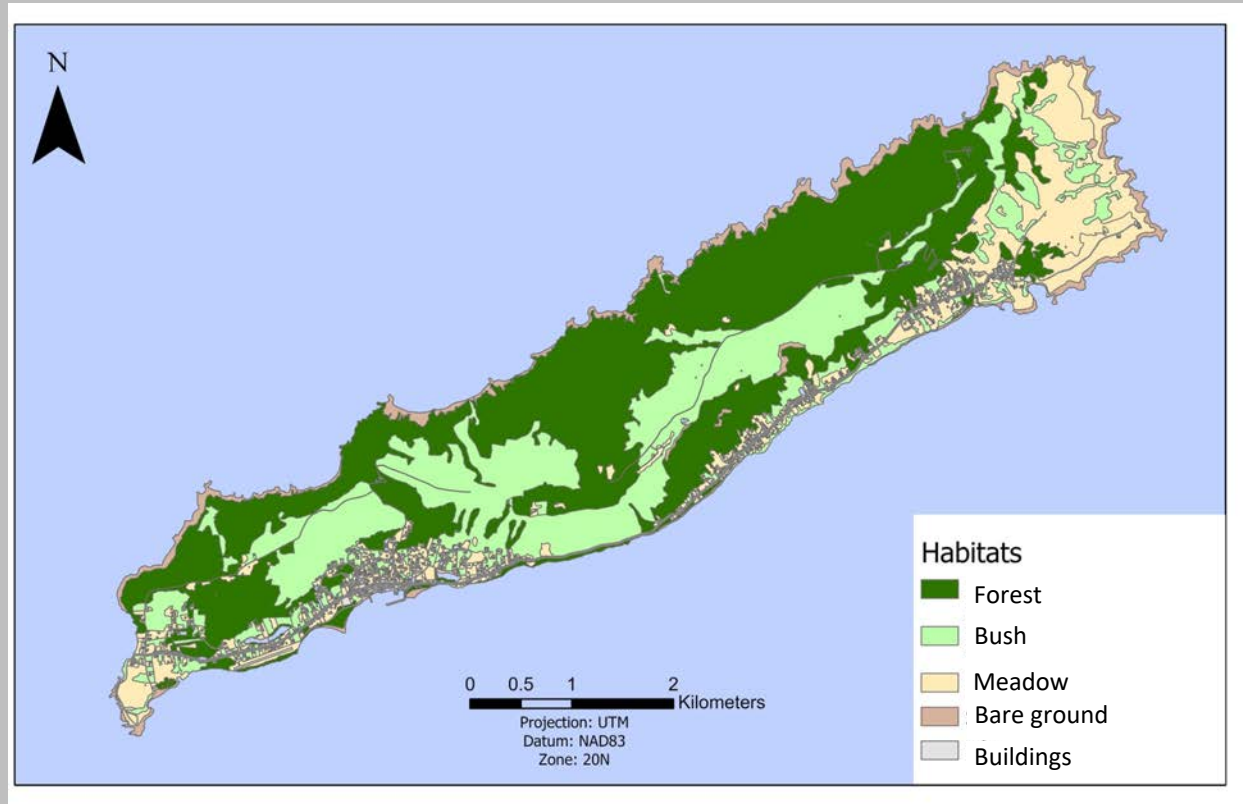
Variables: Coastline erosion

- Not available for the whole island
- Threatens nesting areas



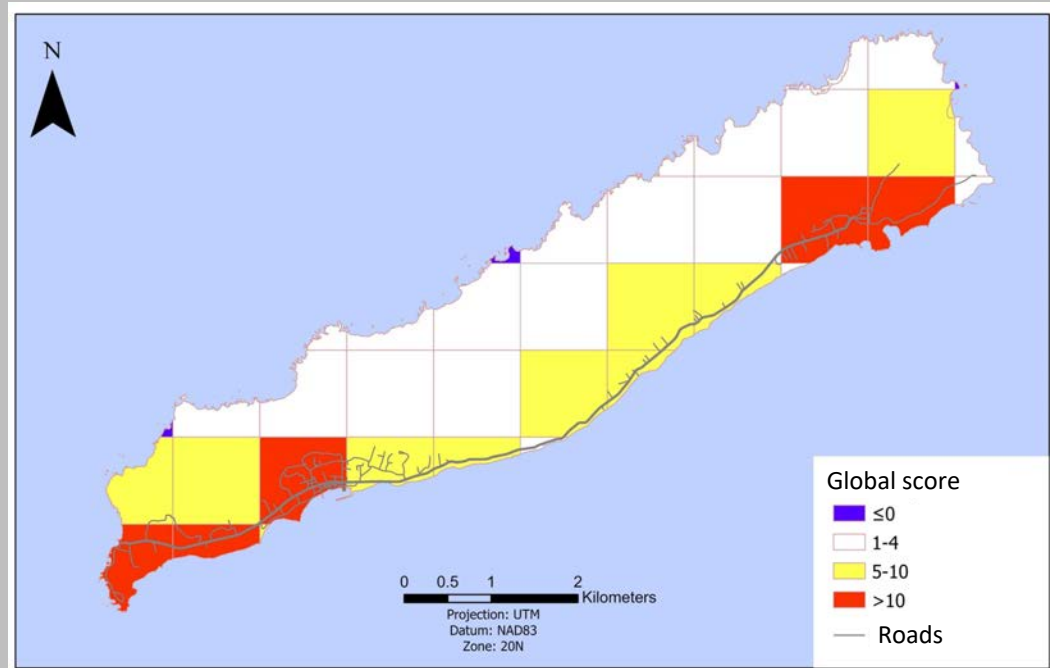
Unused variables

- Problems of availability or resolution
- Overgrazing by sheeps and goats
- Habitat mapping



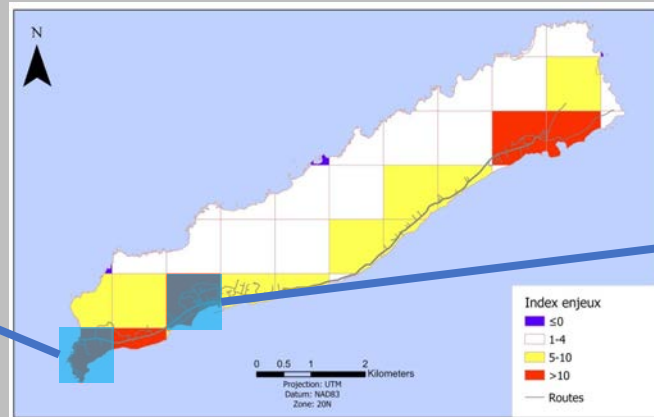
Results: Global score

- Arbitrary scale: adaptable score
- Key for managers and politicians to identify priority areas



Next step : acting for the conservation

Selection of areas based on implementation possibility



Thank you for your attention.



Picture: G. Moulard

Fundings :

