GIS and Octopus Fishing Sites in Areas Southwest Madagascar

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Blue Ventures (BV) and Fisheries Program

BV is a science-led social enterprise that develops transformative approaches for catalysing and sustaining locally led marine conservation.

BV works in places where the ocean is vital to local cultures and economies

BV is committed to protecting marine biodiversity in ways that benefit coastal people.

• **Vision:** Rebuild tropical fisheries with coastal communities
Since 2004, Fisheries program is always looking at how to sustainably manage octopus fisheries in the southwest of Madagascar. Why?
Temporary Reserve

- Closing a fishing site for 2-3 months
- Requires a local law ("DINA") to make it work well
- Decision of the community
- Restricted work with partners
Fisheries program is conducting studies on octopus resource stocks but this is requiring a lot of information:

- Biology of the species
- Daily catch per village
- Habitat of the species
- Map of fishing sites area in each
The last is very interesting:

- Assess habitat quality (probably by combining with others data)
- Follow the evolution of habitat throughout the year
- Quantify the catch in each fishing site
- Help our Data Collectors to improve the collection of data
Octopus Fishing Sites Mapping

“PARTICIPATORY MAPPING”

78 villages in SW of Madagascar:

• Difficult to access
• 60% with bad internet connexion
1- Taking the GPS coordinates of all their landmarks

2- Importing these points into one of these software packages

3- Community meeting
Need a verification by taking the GPS coordinates of the 4 corners for some sites (3 max).
Overlapping layers to verify similarities
Result
• Importing/combining excel data into map data
• Perform remote sensing with good map data
MISAOTRA ANTSIKA IABY!

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