Gaps in the Protected Areas System of Panama MARXAN

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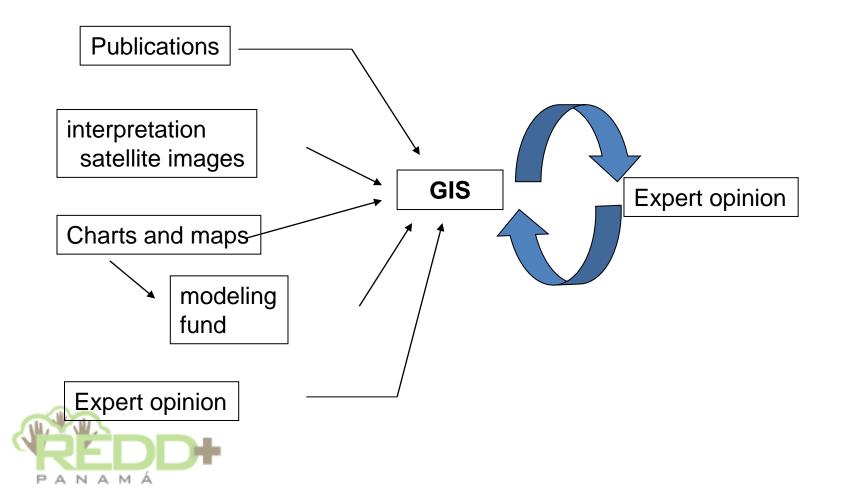
General Information

- Population: 3.2 million.
- 36% of country is composed of protected areas.
- Tropical climate.
- Two seasons: rainy and dry.
- Area: 75,517 km²

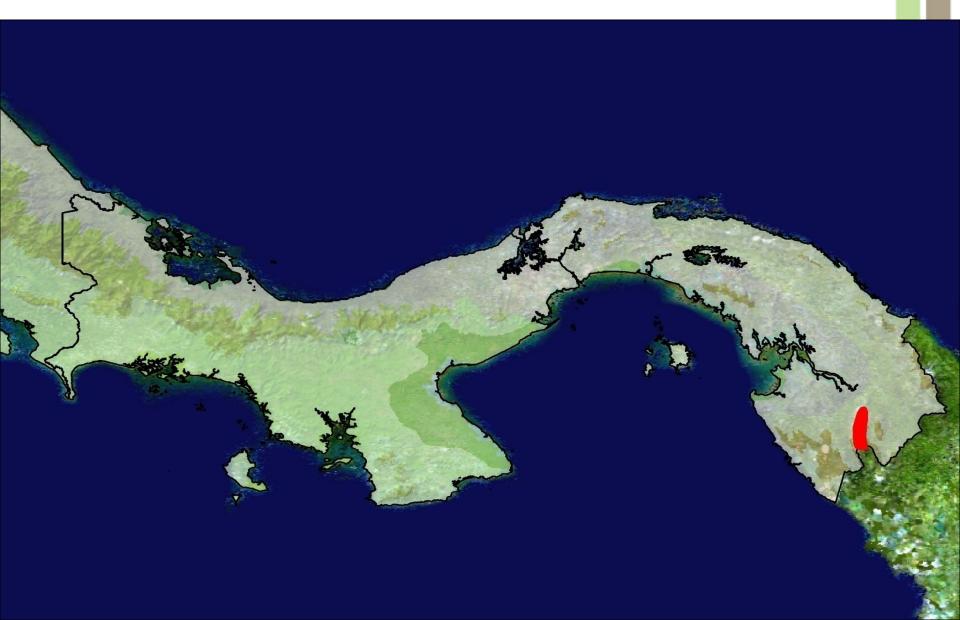


METHODOLOGY

• DATA COLLECTION WITH GIS

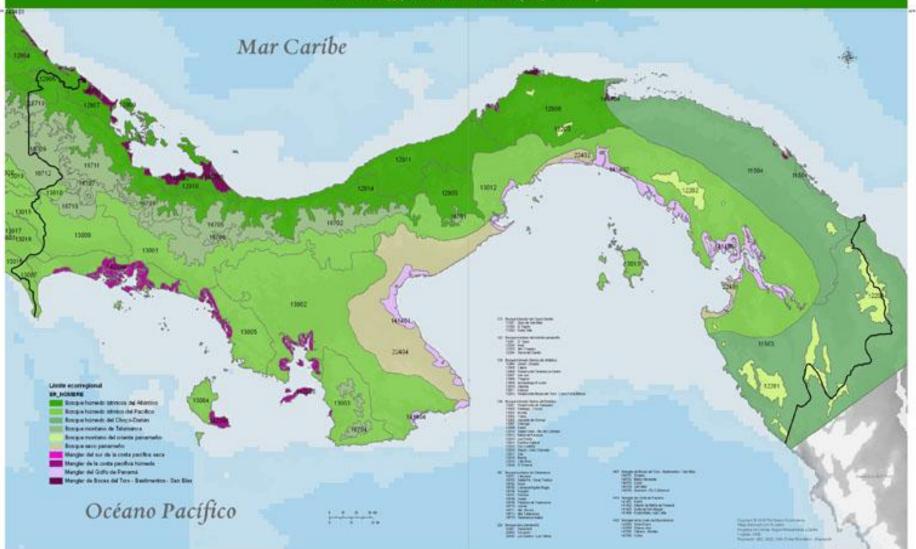


ENDEMIC SPECIES MAP



Terrestrial Eco-Regions

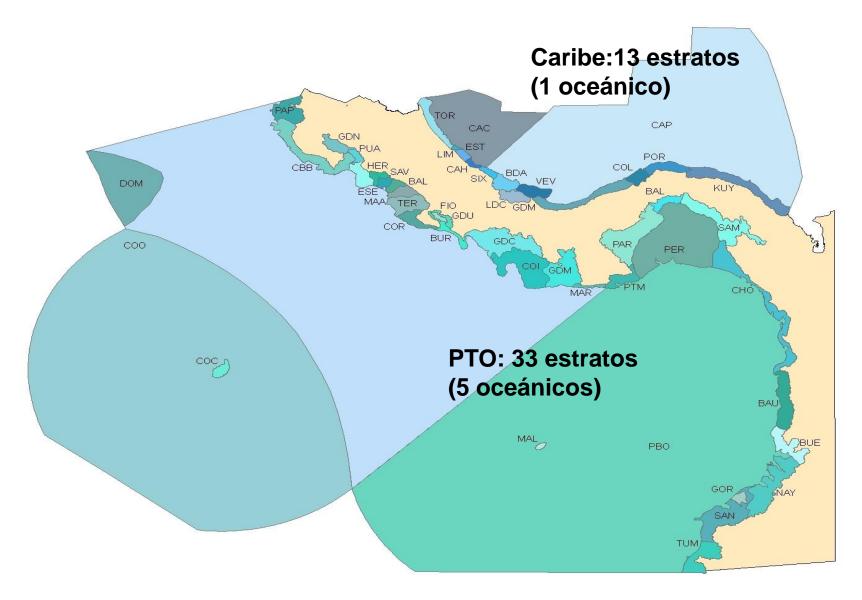
PLANIFICACIÓN ÉCORREGIONAL DE MESOAMÉRICA – ANÁLISIS DE VACIÓS DE CONSERVACIÓN PANAMÁ: Ecorregionnes y sus sub-unidades (leptratificación)



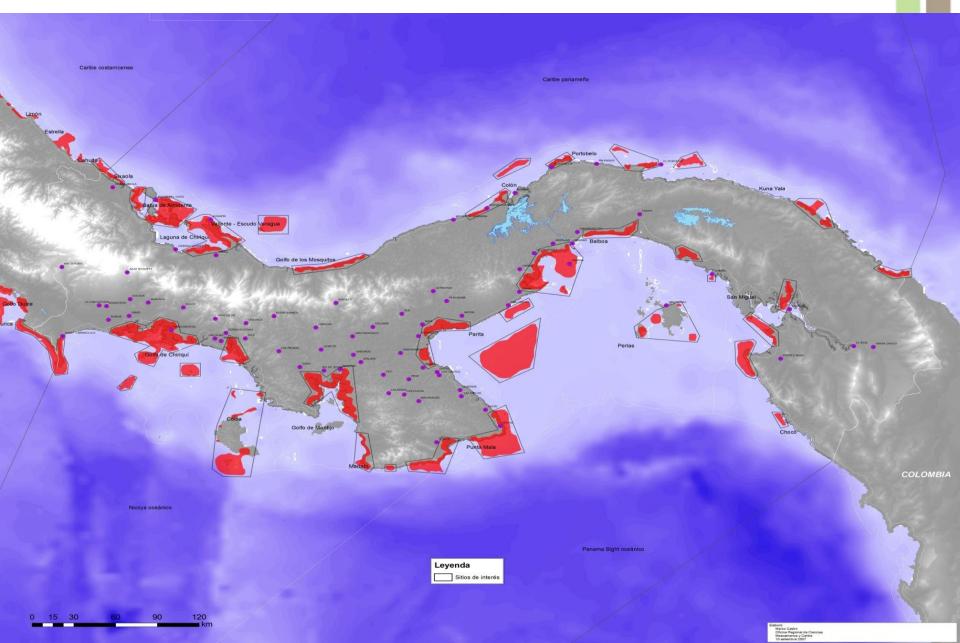
Freshwater Ecosystems



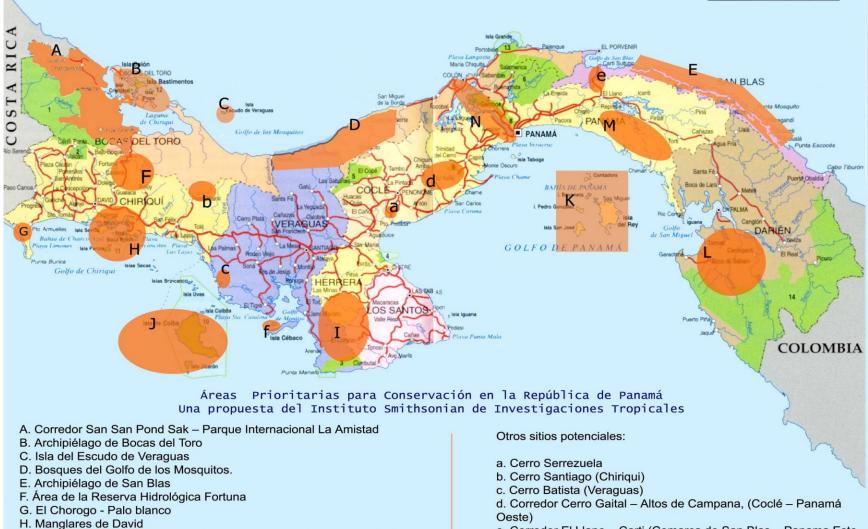
Stratification



Proposed coastal landmarks



WORKSHOPS WITH SPECIALISTS (SCIENTIFIC COMMUNITY) FOR PRIORITY CONSERVATION AREAS.



- I. Corredor Parque Cerro Hoya Macaracas Cerro Canajagua Ocú
- J. Banco Hanibal en cercanías del Parque Nacional Coiba
- K. Archipiélago de las Perlas
- L. Serranía del Bagre
- M. Área de la Serranía del Majé
- N. Zona del Canal en su conjunto, en especial la ribera oeste del canal.

e. Corredor El Llano – Carti (Comarca de San Blas – Panama Este f. Cerro Chichica (Isla Cebaco).

Focus: Coarse / Fine Filters

- Filter Thickness: Based on protecting large tracts of land or more types of inland waters, marine and coastal environments (ecosystems and their components, communities)
- Fine filter targets: species of particular interest, endemic or threatened, to be held at viable levels.

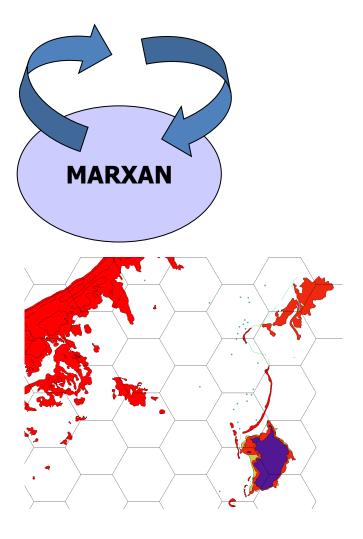


Obtaining preliminary portfolio

Conservation targets Polygons, lines, points

Conservation goals

Added costs of threats





RESULTS

- Two ministerial officials were trained to use the data and produce analysis at the nat. level
- In each ecosystem type (freshwater, marine and terrestrial) at least 5 conservation elements (species or habitats) were selected
- Measurable goals were set and accepted by the Ministry and were written in a report about conservation goals.



GAPS IN THE NATIONAL PROTECTED SYSTEM

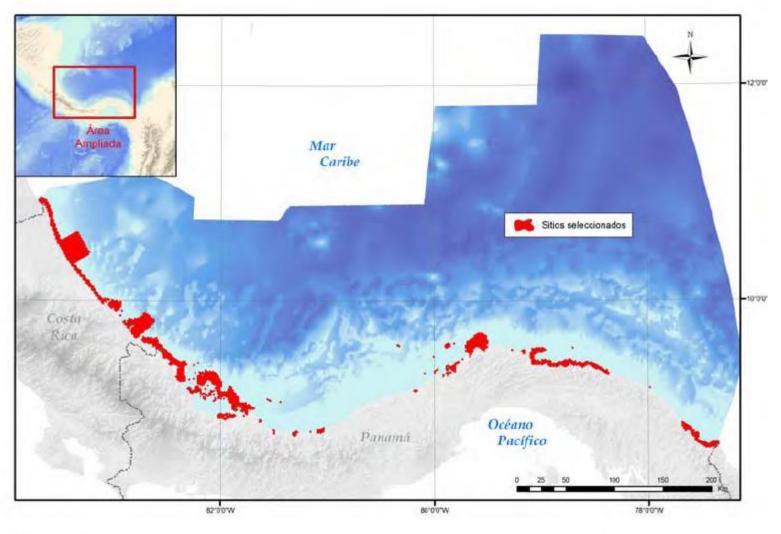
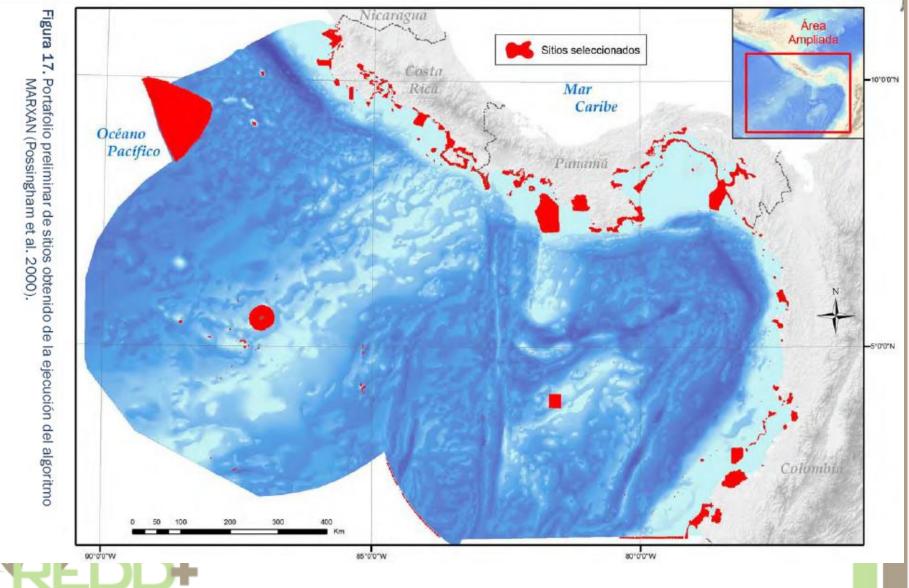




Figura 30. Portafolio preliminar de sitios obtenido de la ejecución del algoritmo MARXAN.

GAPS IN THE NATIONAL PROTECTED SYSTEM



PANAMÁ

NEXT STEPS

- Appoint new protected areas and improve existing ones
- Include these new areas in the system, considering new ecosystem considerations



THANKS FOR YOUR ATTENTION

