Blue Economy, conservation and marine planning in Seychelles

UN-GGIM

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Seychelles Permanent Representative to the United Nations



Seychelles Debt Swap, Trust, and Marine Spatial Plan

BIODIVERSITY PROTECTION GOAL 30%

DEVELOP BLUE ECONOMY ADDRESS CLIMATE CHANGE

\$20M DEBT SWAP

(\$15 M loan and \$5 M grant Seychelles loan agreement)

Trust created to negotiate loan and debt buy back

Pay back foreign creditors: low interest, long term loan

Up to 65% of loan now payable in local currency

MARINE SPATIAL PLAN

Zoning design for existing and future uses Expand MPAs from 0.04% to 30% Implementation plan and priority strategies



SEYCCAT TRUST

Funding to implement MPAs
Funding to implement the marine plan
Funding for climate change adaptation













Goal: Develop a marine spatial plan by 2020 that

- Legislates marine protected areas that are 30% of Seychelles' exclusive economic zone and territorial sea
- Promotes the Blue Economy and other national strategies to support ocean health, local economy, and economic growth
- Addresses climate change in coastal and offshore habitats
- Is monitored and adapted over time









Why is there a 30% goal?

The Seychelles Constitution Article 38 (1993)

'the State recognises the right of every person to live in and enjoy a clean, healthy and ecologically balanced environment and with a view to ensuring the effective realisation of this right the State undertakes....to ensure a sustainable socio-economic development of Seychelles by a judicious use and management of the resources of Seychelles'.

Protected Areas Policy for Seychelles (2010)

The President of Seychelles made a commitment to declare 50% of the terrestrial area and commit 30% of Seychelles' marine area as protected, half of which will be declared as notake zones (as a pledge conditional to raising USD\$2.5 million/year for a conservation and adaptation fund)

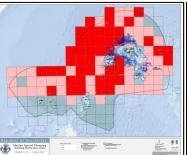
Protected Areas Policy for Seychelles (2013)

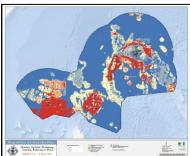
'To have a Protected Areas System on land and in the sea that protects and conserves high quality, comprehensive and ecologically representative examples of Seychelles' natural diversity and cultural heritage and that provides ample opportunities for the fair and equitable sharing of the benefits arising from the sustainable use of these resources'

International Agreements, Commitments and Conventions



Seychelles MSP: Spatial Data Catalogue







INDUSTRIAL &

PUBLIC UTILITIES

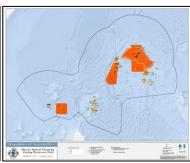
Ferries & Shipping

IMO Marine Highways

Ports & Marinas

Renewable Energy





FISHERIES SPORT FISHING

Domestic Fishing Industrial Fishing Sport Fishing Mariculture **Participatory Mapping**

Sources: Seychelles Fishing Authority 2014; Fishing Boat Owners Association 2014, TNC 2014.

BIODIVERSITY FEATURES

Benthic geology 174 "features" **WIOMER** Areas of Importance BirdLife Important Areas **Participatory Mapping**

Sources: Harris et al. 2014: Klaus 2015: IMaRS-USF 2005; IMaRS-USF and IRD 2005; Spalding, Ravilious and Green. 2001; UNEP-WCMC, WorldFish Centre, WRI and TNC. 2010; Seychelles Fishing Authority 2014; Seychelles National Park Authority 2014; Seychelles Port Authority 2014. See UNDP 2015 for full

citations.

Participatory Mapping Sources: Halpern et al. 2006; British

Admiralty Charts; Seychelles Port Authority 2014; Ministry Land Use and Housing 2014, TNC 2014.

NON-RENEWABLE RESOURCES

Licensed Blocks Low Gravity Areas Seismic Surveys Sand Mining Participatory Mapping

Sources: PetroSeychelles 2014, 2015. TNC 2014.

TOURISM & RECREATION

Marine Charters Diving, Snorkeling **Viewpoints** Accommodation **Participatory Mapping**

Sources: Seychelles Sport Fishing Club 2014; Ministry of Tourism and Culture 2014; Seychelles Hoteliers Association 2014.

Over 100 layers in data catalogue **Analyse Data and Represent Uses**







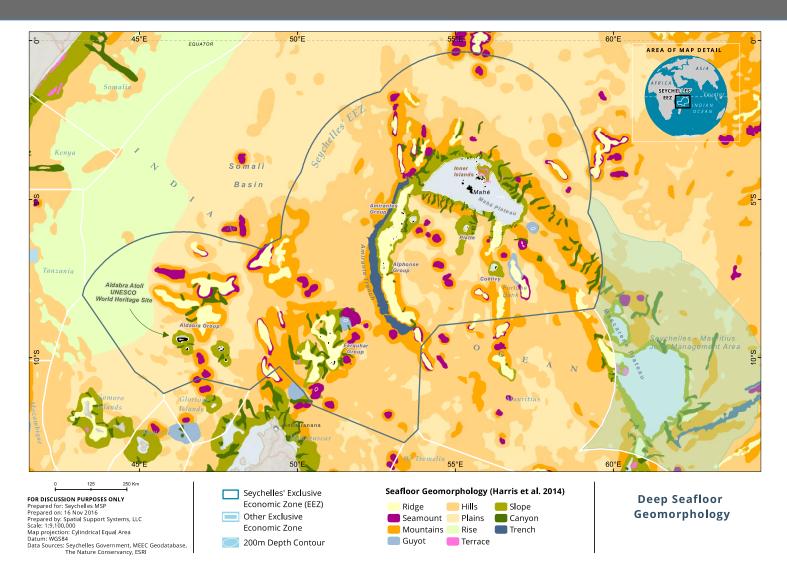






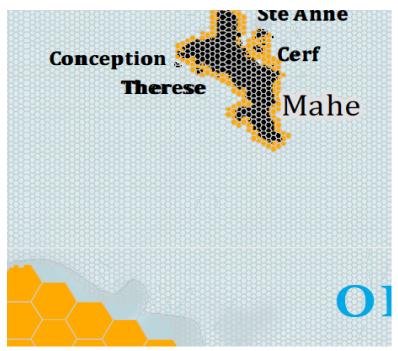
Source: MEECC database

Deep water seafloor geomorphology





Seychelles MSP: Planning Unit Approach





SHALLOW

< 200 M depth 1 km²

DEEP

> 200 M depth 50 km²



What is Marine Spatial Planning (MSP)?

A public process of analysing and allocating the spatial and temporal distribution of human activities in marine areas to achieve ecological, economic, and social objectives that are usually specified through a political process.



Ehler, C. and F. Douvere. 2009. Marine spatial planning: a stepby-step approach toward ecosystem-based management. UNESCO.

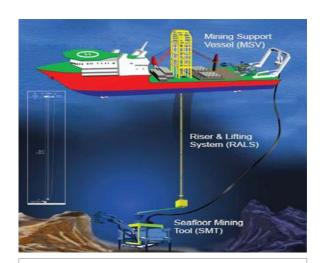
Marine Sectors in Seychelles

- TOURISM: High value tourism, sports fishing, fly fishing, charters
- FISHERIES: Industrial, semi-industrial, artisanal, sports, recreational
- AQUACULTURE: Mariculture Master Plan, cultivate native species
- INFRASTRUCTURE: Ports, shipping, transportation, public utilities, marinas and yacht services
- RENEWABLE ENERGY: Offshore wind, solar, ocean energy
- PETROLEUM: Geophysical surveys, licensed blocks, areas of interest
- ENFORCEMENT & MONITORING: Coast Guard, maritime security
- RECREATION: Boating, diving, snorkeling, swimming





Possible Future Developments?



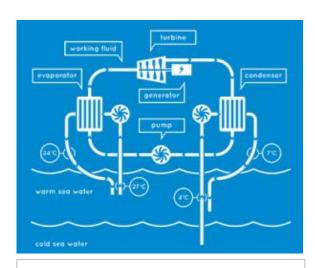
DEEP-SEA MINING

Minerals Aggregates



LUXURY TOURISM

Marinas Floating Hotels



ENERGY

Thermal Energy Conversion
Other Innovations



Seychelles MSP: Principles for Guiding

Decisions developed in 2014-2015 by technical working groups. Reviewed and endorsed by Steering Committee and stakeholder workshops

GOVERNANCE & MANAGEMENT

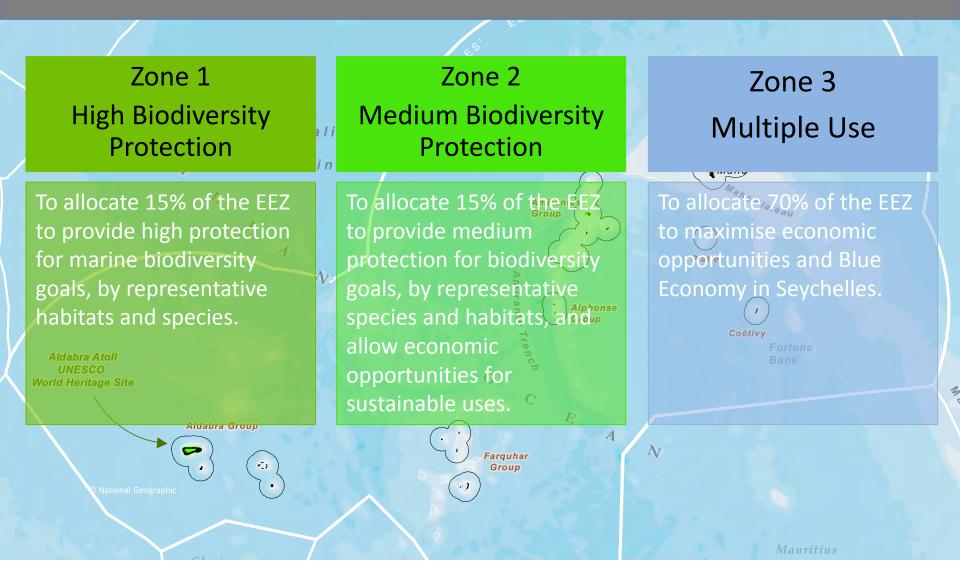
- National laws, regulations, acts
- International agreements
- Policy, management plans, strategies, action plans
- Transparency, inclusivity, participation
- Integration, co-management
- Environmental stewardship
- Equity, sustainable development

APPROACH & PRACTICE

- Ecosystem-based management
- Precautionary principle
- Balance ecological, economic, social and cultural objectives
- Feasible, practical, implementable,
- Financially sustainable
- Adaptable, dynamic
- Relevant temporal and spatial scales



Seychelles MSP: Zoning Framework





DRAFT High Biodiversity – Zone 1

- The highest protection in Seychelles for key species, habitats, ecosystems
- Implemented using the Protected Areas Policy, Fisheries Act, other legislation; multiple levels of protections within Zone 1
- Objective is to conserve biodiversity features (habitats, species, ecological processes) from disturbance or anthropogenic changes
- Provide reference sites to monitor climate change, species populations, coral bleaching, etc.
- Restrict or limit extraction and seabed alteration
- Compatible uses do not alter the biodiversity objective



DRAFT Medium Biodiversity and Sustainable Use – Zone 2

- Objectives for biodiversity and sustainable uses
- Multiple levels of protection within Zone 2
- Species and habitats within this zone can be managed with some harvest or extraction levels
- Ecosystem services the benefit to humans
- Some restrictions for extraction and seabed alteration
- Compatible uses align with the objective for each area

MSP Website



www.seymsp.com

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