Implimenting AICHI biodiversity target 11 in South African Marine Environment

POWPA Workshop--Entebbe 22 March 2016











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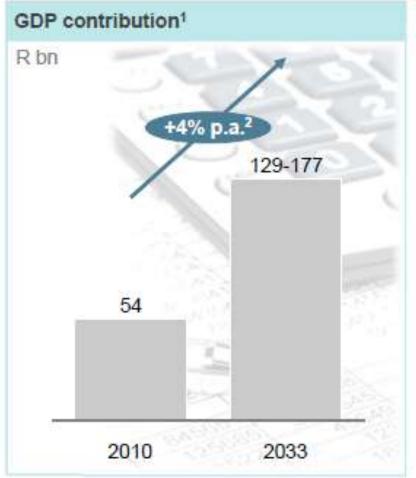


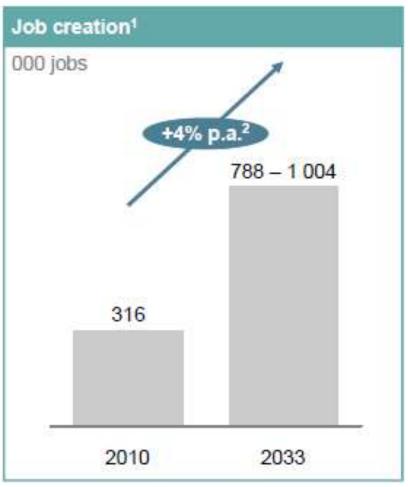
Operation Phakisa: Unlocking the Economic Potential of South Africa's Oceans

22 Proposed Phakisa MPA Network

POWPA, Entebbe, 22/03/2016

South Africa's ocean economic potential ranges between R129 and R177 bn by 2033, with between 800 000 to 1 million jobs created





Four growth areas were selected to be discussed in the Operation Phakisa Labs

1



Marine transport and manufacturing

2



Offshore oil and gas exploration

3



Aquaculture

4



 Marine protection services and governance

. .

Phakisa Proposed MPA Network Initiative 8 in Ocean Protection focus area

Integrated Ocean Governance & Protection

Integrated Framework & Governance



- Ministerial Committee & Secretariat to Govern Activities
- Enhancement of Legislation into the ICOM Act or Oceans Act
- Review of ocean related legislation
- Accelerated Capacity Building Intervention in Ocean Governance

Ocean Protection



Enhanced and Coordinated Enforcement Programme



Extending O&C Remote Sensing Surveillance & Information System



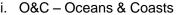
- 8 Creation of a MPA Representative Network
- 9 MPA Research, Monitoring & Capacity Building Programme

Marine Spatial Planning



Marine Spatial Planning Process

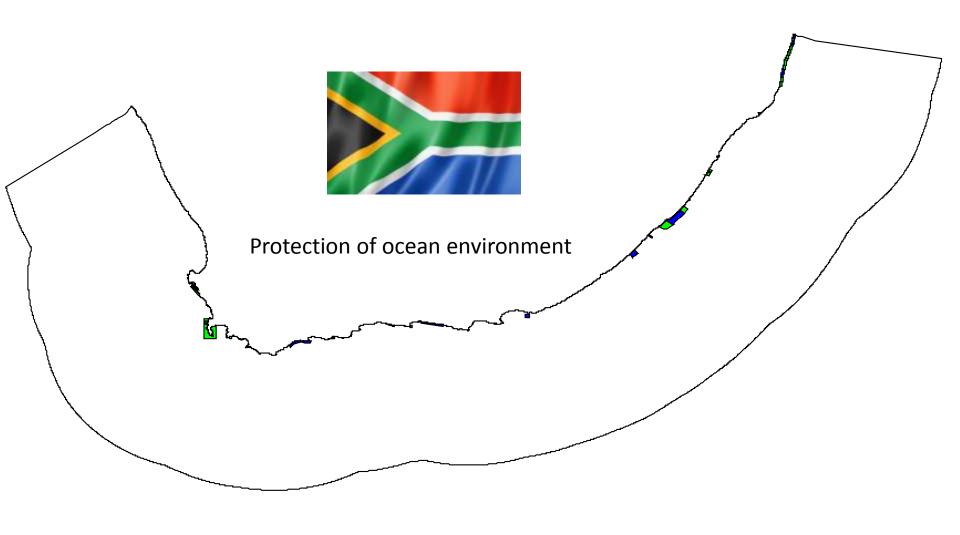




ii. ICOM – Integrated Coastal & Oceans Management

Iii. MPA - Marine Protected Area

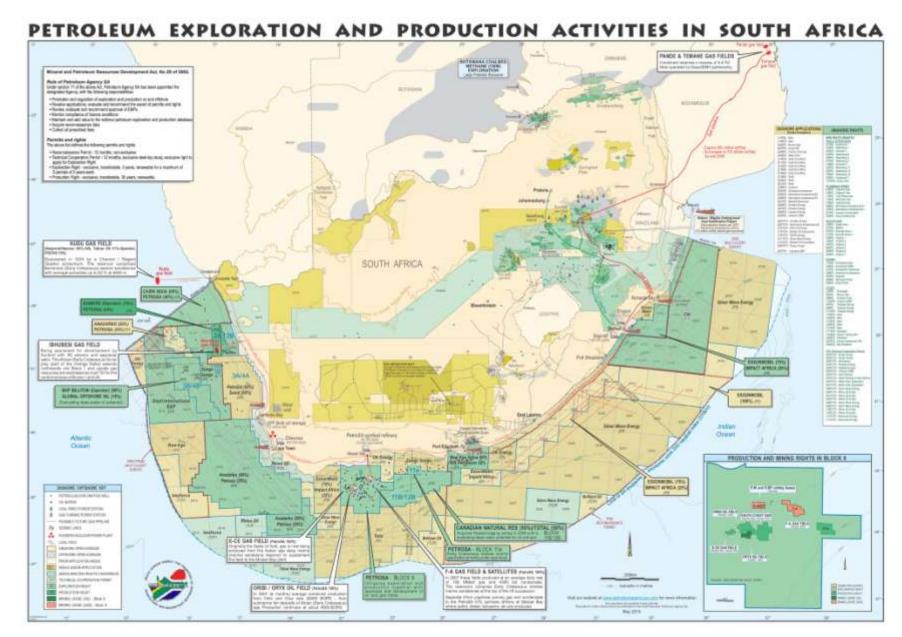




2006 Start of Offshore MPA Planning

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2014 Operation Phakisa

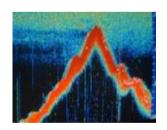


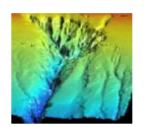


Proposed areas, key features for protection and anticipated gains

- Advance habitat representation from 60% to 94%.
- Includes 46 of the 54 habitat types that currently have no protection
- This includes 10 of the 13 critically endangered habitats
- Focus on protecting the last remaining good condition areas of threatened ecosystem
- 22 proposed new MPAs (3 of these expand existing MPAs)
- Range in size from 200 km² to 15 000 km²
- Total area of 70 000 km² in total new area for protection.

(Current MPA network -4 500 km²)

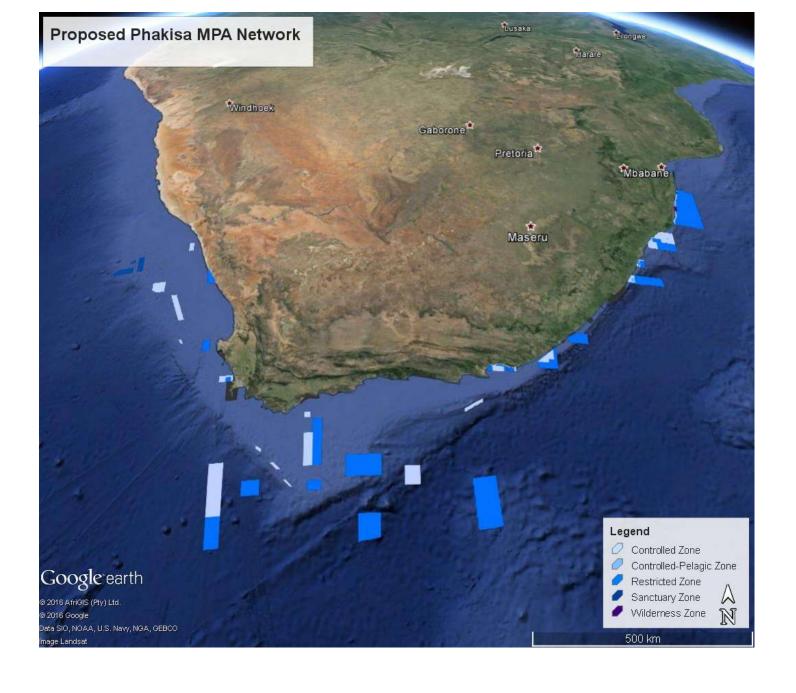


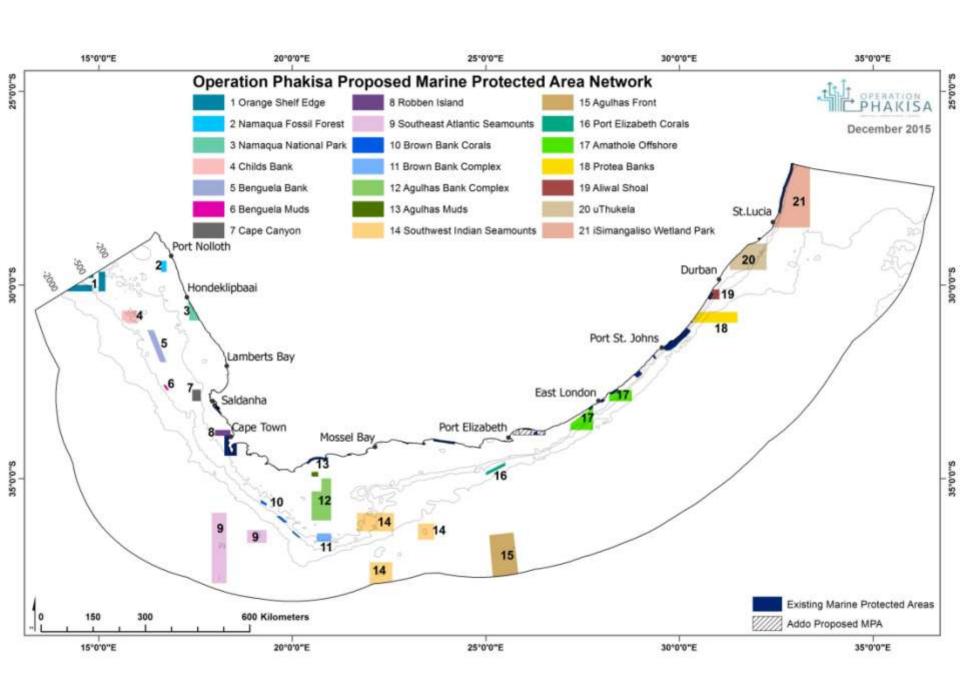












2006

Background research



OMPA Process



2011

Relationship building & 1:1 Stakeholder engagement

Stakeholder engagement- multi sectoral

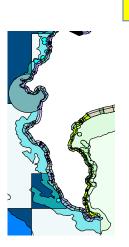
Workshop

Agreed objectives & approach

Research & Mapping

Data collation,





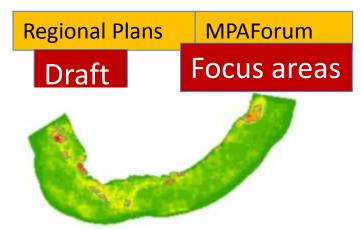
Open day

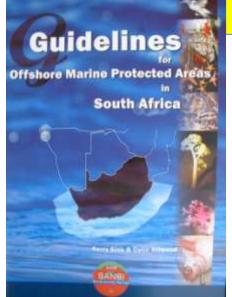
Agreed maps & targets

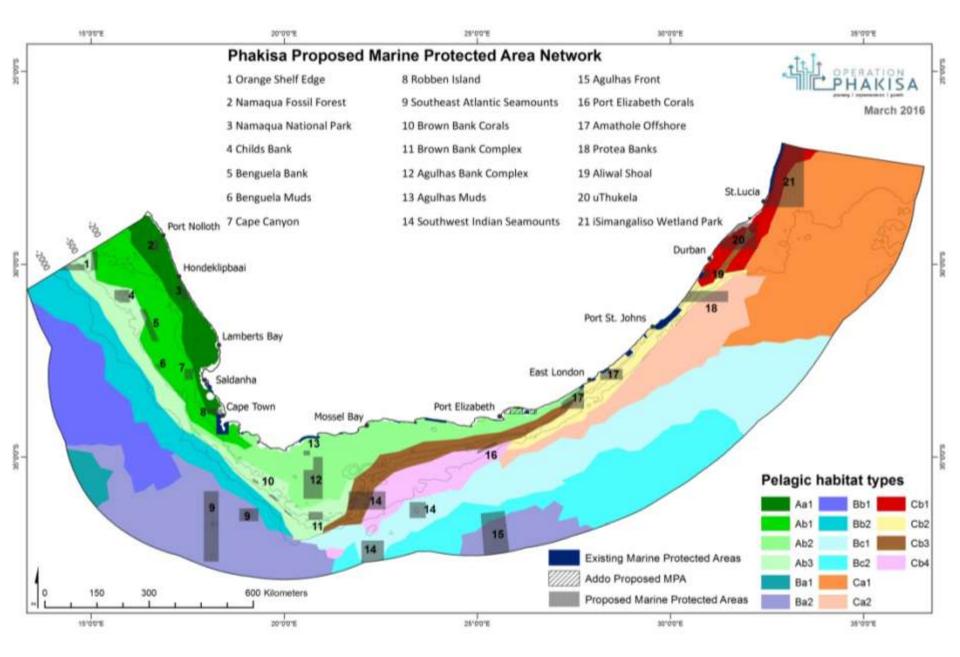
POWPA Workshop Cape Town (2012)

Systematic Planning, Human Dimensions, identified concerns

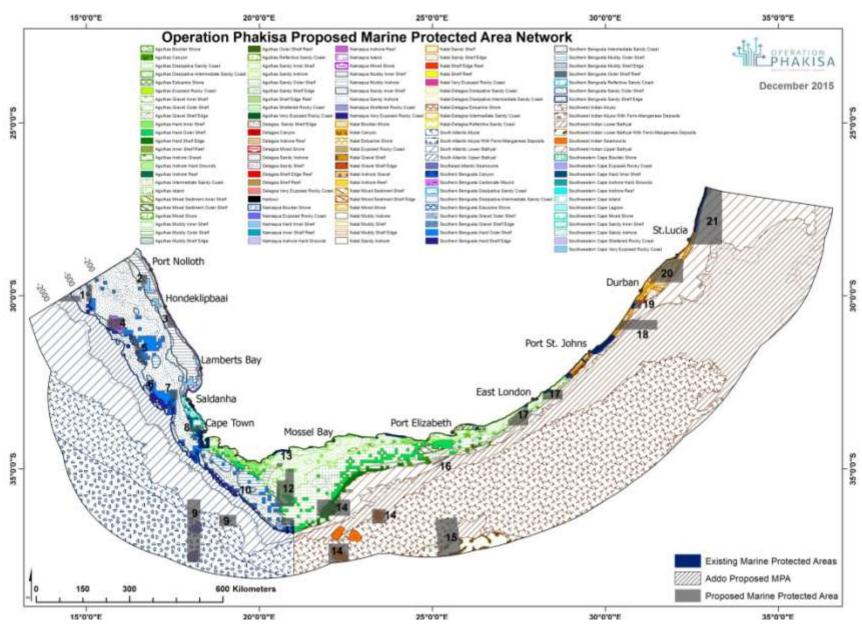
Description of EBSAs (16)





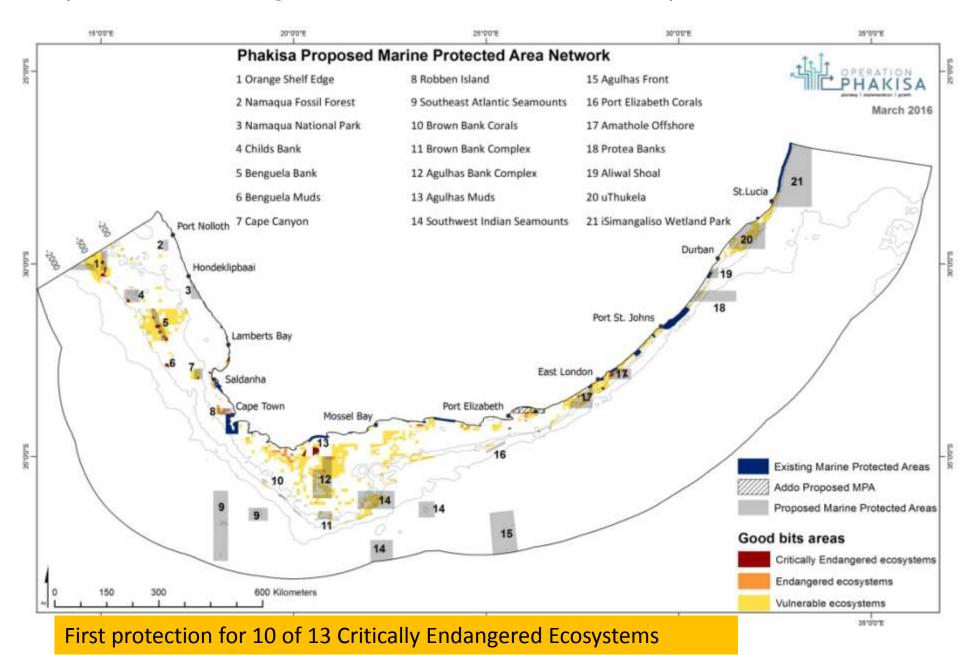


14 of 16 open ocean habitat types included

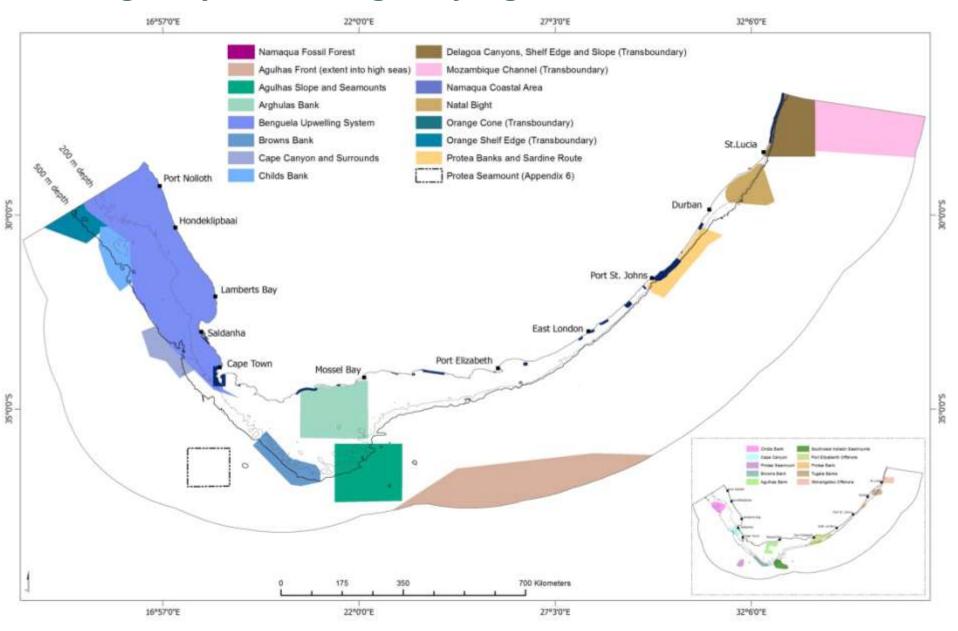


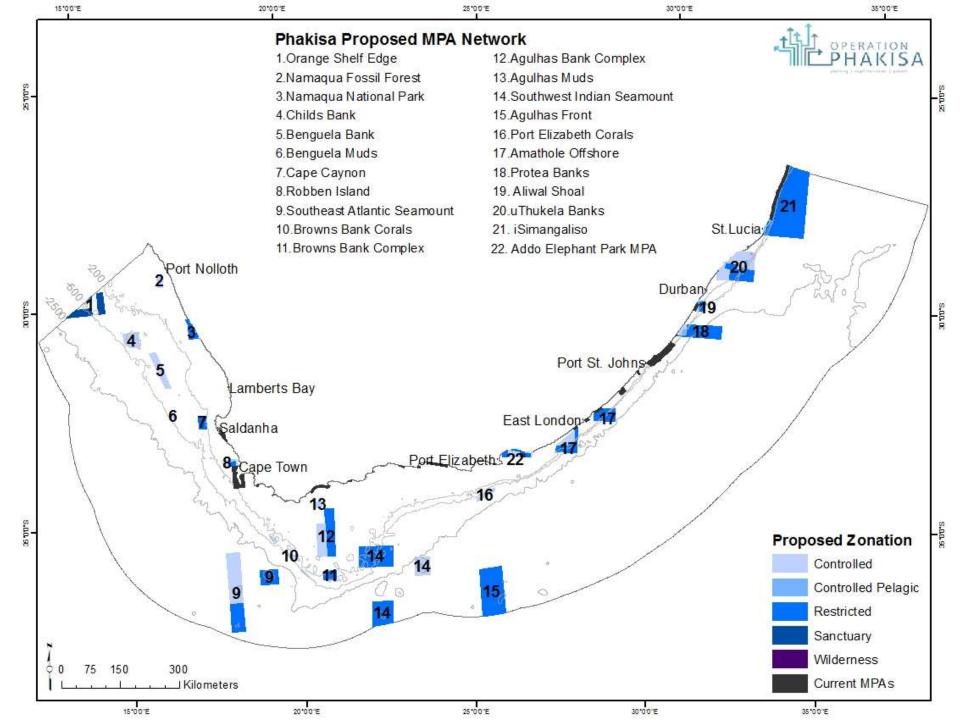
Advances seabed habitat representation

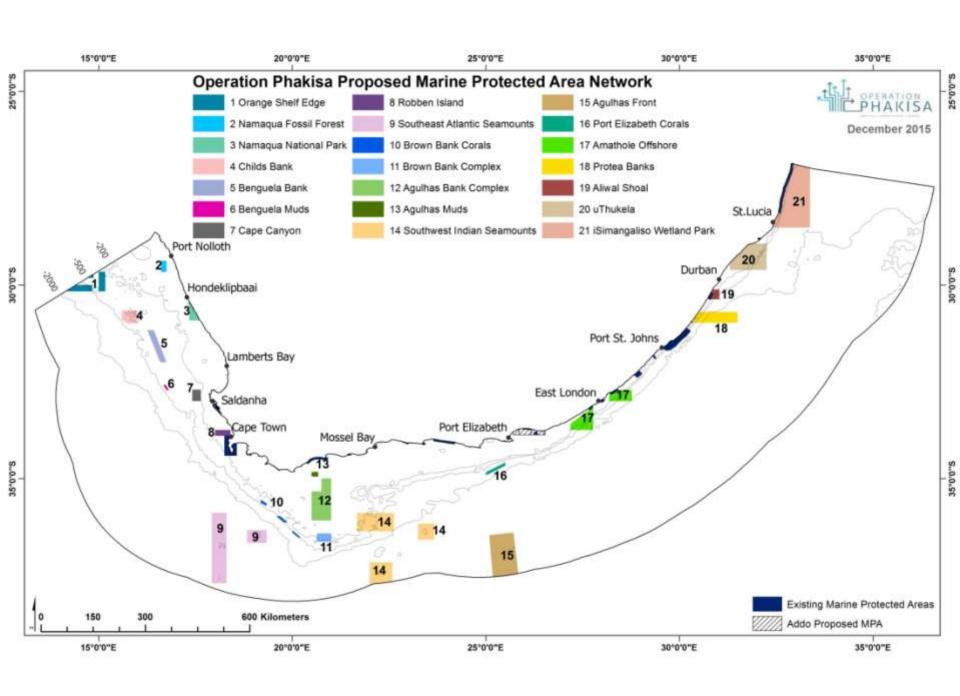
Proposed network takes good condition areas of threatened ecosystems into account

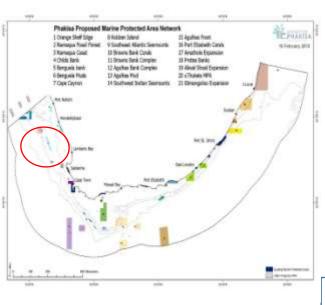


Ecologically and Biologically Significant Areas









Child's Bank

- 1 335 km²
- Sensitive ecosystem, corals



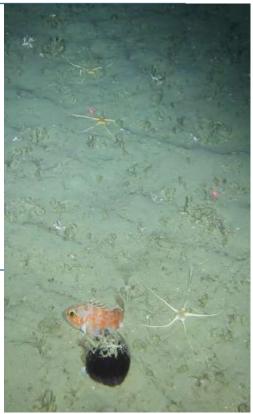
Benguela Bank

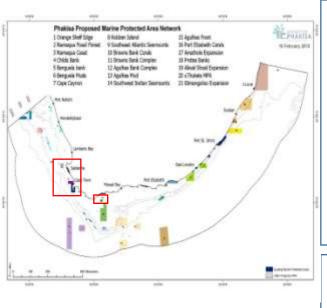
- 1 460 km²
- Untrawled offshore habitats, hard ground

Benguela Muds

- 90 km²
- Critically endangered mud habitat in good condition







Cape Canyon

- 660 km²
- West coast canyon
- Lower socioeconomic cost



Robben Island

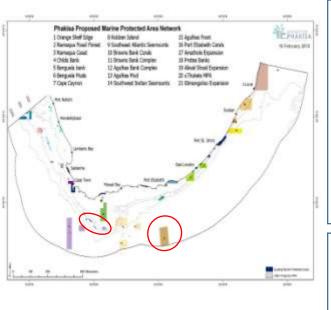
- 620 km²
- Island ecosystem
- Endangered seabirds



Agulhas Mud

- 207 km²
- Good condition mud habitat





Agulhas Front

- 6884 km²
- Habitat diversity
- EBSA area for life history



Brown's Bank Corals

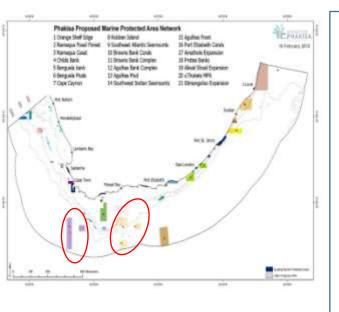
- 380 km²
- Cold water corals



Brown's Bank Complex

- 783 km²
- High habitat diversity incl. gravels
- Low socio-economic impact





Southeast Atlantic Seamounts

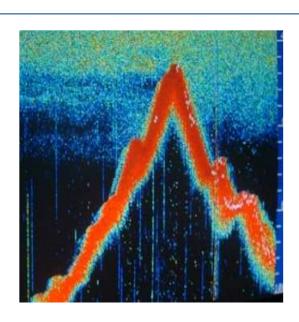
- 8585 km²
- Seamount ecosystems

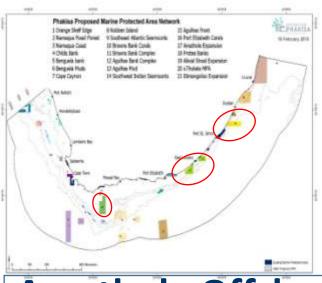


Data provided by Anadarko

Southwest Indian Seamounts

- 9450 km²
- Seamount & many other deep habitats





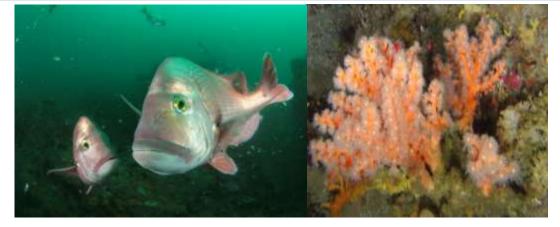
Agulhas Bank Complex

- 4 608 km²
- Nursery & spawning area
- Fisheries sustainability



Amathole Offshore

- 3 810 km²
- Line fish recovery
- Habitat diversity
- Coelacanth site



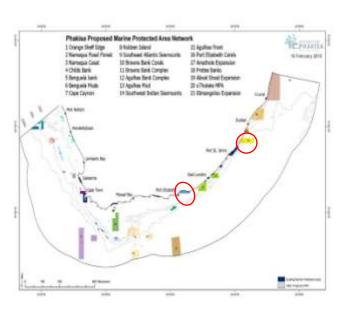
Protea banks

3229 km²

 Shark aggregations & ecotourism







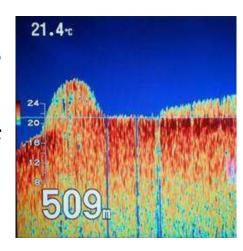
Addo Elephant

- 1 164 km²
- African penguin, linefish & abalone

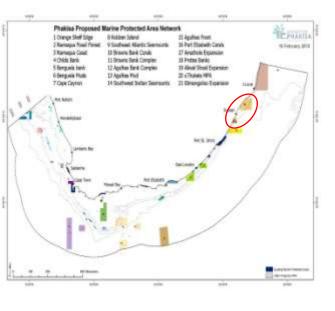


Port Elizabeth Corals

- 500 km²
- Cold water coral reef
- Kingklip spawning

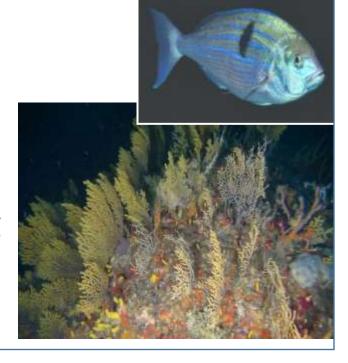






Aliwal Shoal Expansion

- 577 km²
- Fish spawning ground
- Deep reefs



uThukela Banks

- 5666 km²
- Coast canyon connectivity
- Nursery area
- Soft sediment habitats



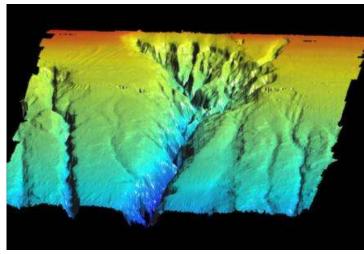
iSimangaliso extension

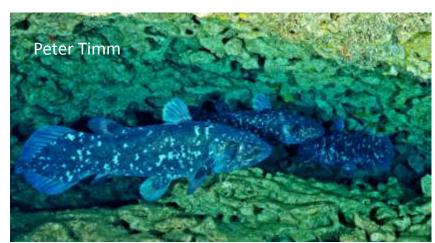
Mozambique border – Cape St Lucia lighthouse 14 236 km², 0-1800m

- Leatherback turtle foraging area & importance for migratory species
- Coelacanth habitat
- Alignment with World Heritage Site boundaries
- Integrated enforcement opportunities

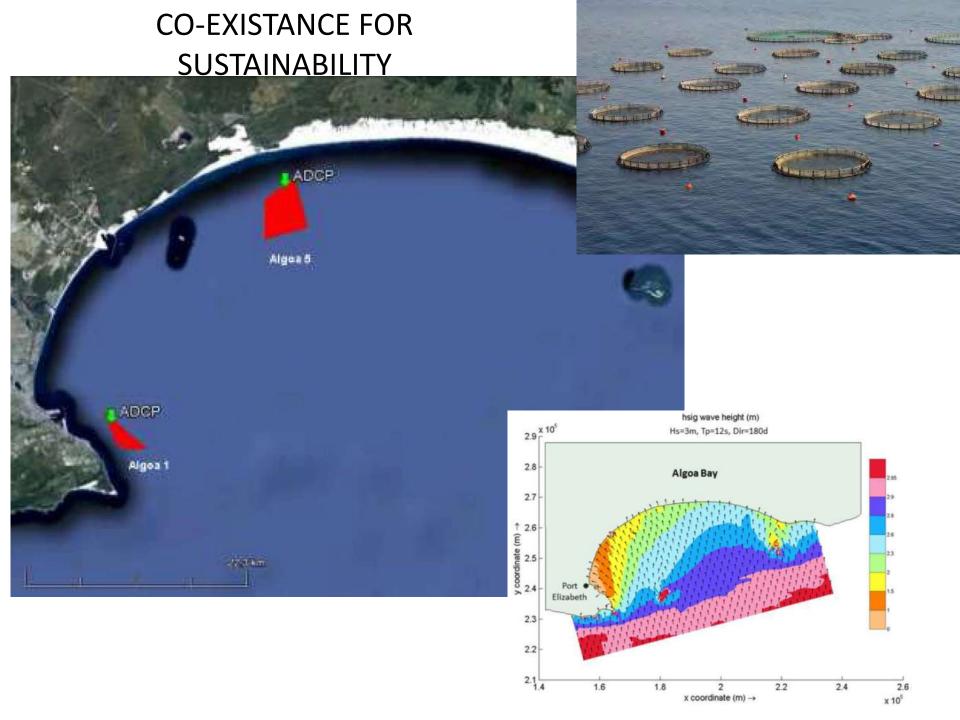


Brian Skerry ©

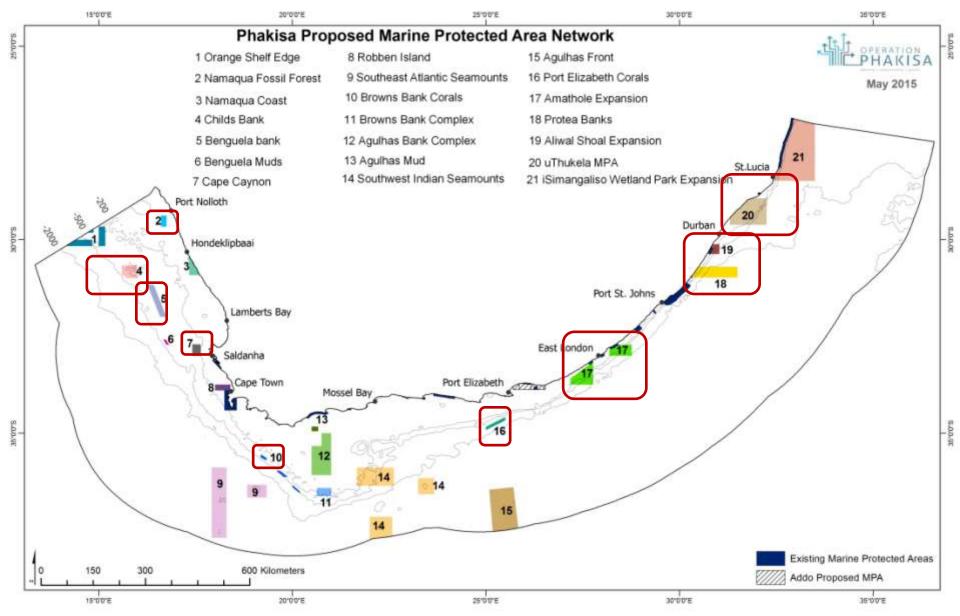




Key sources of info: Harris et al. (2012), Sink et al. (2012, 2011), Sink and Samaai (2009),



New offshore research unlocked



Key aspects for preparation of comments

- Gazette can be downloaded from DEA website by following the link below:
- https://www.environment.gov.za/sites/default/files/gazetted_notices/nempaa57of2003_draftregulations_newproposedmarineprotectedarea1_gg39646.pdf
- By email: <u>MPARegs@environment.gov.za</u>
- Closing date 17 May 2016

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