Agulhas Somali Currents Large Marine Ecosystems (ASCLMEs)





GEF









Tony Ribbink on behalf of many

Programmatic approach and partnerships.

























ASCLMES PROJECT GOALS

- Develop the knowledge necessary to better manage the fisheries and biodiversity through capacity building and ecosystem studies.
- Understand the processes that drive the energy and economies of the western Indian Ocean.
- Contribute to achievement of Millennium Development Goals and WSSD pledges
- TDAs (Transboundary Diagnostic Analyses for Programme)
- SAPs (Strategic Action Plans for Programme)

African Coelacanth : window to the past, door to the future









New Partnerships in Africa Building Hope for the Future

African Inspiration: Global commitment





Coelacanth: a regional icon for marine conservation and a symbol of hope



Coelacanths found in shallow canyon heads of MPA: A wake up call! • NEPAD • ainable Seas



World's second largest population unwittingly protected! Is there a lost world awaiting exploration? Ecosystem approach necessary.

NEPAD a wonderful new opportunities for Africa













National Management Committees comprise Government Departments, Institutes and NGOs. National chapters for SST.

Existing and incipient partnerships



UBSHIP FOR AFRICA

NEPAD

Sustainable Seas Trus

GEF

PADY



Benguela is a current of plenty, S Equatorial is a current of very little.

Unifying process S Equatorial Current oligotrophic but does support rich biodiversity. How?

JAGO

Currents work southwards in eddies













Unique nutrient and energy pumps supporting millions of people, but how. Predictions possible?







Unique oceanographic patterns and processes





Great frigates tagged

Result : Birds forage in nutrient rich areas (purple circles).

ACEP and Frances Marsac (France)

Long-term underwater biophysical monitoring stations



By end of 2003 all sites were operational Upwellings of direct impact on coastal community livelihoods....???? How?



Time scale (days) + lower than seasonal T[°]C = upwelling?





South Africa

Comoros











Cool isotherms shallower away from the equator



Rich biodiversity: only 50% described in better known groups













Deep reef: sponges, octocorals, red algae, crinoids

+Cirrhipathes spiralis 45m

Suberites sp. 56m

+Chaetodon mitratus 46m

Oceanaphia sp. nov 54 m

+lanthella sp. 54m

Marine ecology & taxonomy; amazing richness 270 years to describe new invertebrates (CoML)































Preparing voucher specimens for museums









Capacity building takes centre stage to stop brain drain and prepare for the future





GFF

- Four imperatives of capacity building: attain, train, retain, sustain.
- Public awareness



 Don't train in vain





















AVIREX























Student training







Floating research Facility for all countries needed







Building regional capacity: critical mass



Virtual institution and centre of excellence in geosciences











Building regional capacity : critical mass





GEF







Building regional capacity : critical mass





Virtual institution and centre of excellence in geosciences, oceanography, coelacanths,







Building regional capacity : critical mass

NEPAD CRUISE

TRACK

dian Ocean

Dar es Salaam





GEF

Virtual institution and centre of excellence in geosciences, oceanography, coelacanths, marine ecology



Building regional capacity : critical mass





GEF

Virtual institution and centre of excellence in geosciences, oceanography, coelacanths, marine ecology, Genetics & genome resources,



Building regional capacity : critical mass





GEF

Virtual institution and centre of excellence in geosciences, oceanography, coelacanths, marine ecology, **Genetics &** genome resources, socio-economics & indigenous knowledge,



Building regional capacity : critical mass





GEF



Virtual



Building regional capacity : critical mass





GEF



Virtual









GEF

Africa has a vision of a better future.

Did you read Science?

A pressing imperative



Only 50 years left!!

There will be virtually nothing left to fish from the seas by the middle of the century if current trends continue, according to a major scientific study. BBC Nature.



3 November

Worm et al 2006

IP FOR AFD













AMERICAN

Poster by Lindy Wright

African Coelacanth Ecosystem Programme opening the door to the future: Inspiring an understanding of our seas.

Typical trawl data

1.5kg 8 species

14kg 61 species

6kg 17 species

From our own and other sampling cruises.

Our best 600kg 52 species



Relying on investments in fisheries alone is short sighted





Economic growth should focus on rich biodiversity MPAs and sustainability.



Coelacanths, *Latimeria chalumnae*, live in caves in deep water, at the correct temperatures. They are dependent upon animals and plants in their ecosystem.













Coastal areas are becoming heavily populated

5.0%









140 million people in 7.2% WIO countries

SOUTH AFRICA

SEVCHELLES 56 million people along coasts and islands

ADAGASCAR











Developing a Sustainable Economy for those who Depend upon the Sea



Integrated network of MPAs











pledges made by countries

Parks Network must reach the children of the world: information, games and electronic manipulation of the environment











The choice











Act now while the resource has resilience and actions are affordable



Measure the cost of not doing anything!









- African Inspiration: Global commitment
- Long-term sustainability for LME approach in WIO—vehicle for the future to be driven by WIO Africa
- New vehicle for long-term funding of Africa
- Does provide opportunities to retain scientists
- My role to develop structures and resources; NEPAD and Nairobi Convention to promote it
- Target for full operation 2010







African Inspiration: Global commitment Some conclusions (messages)





NEPAD

Economic investment needs to be geared to a region that is rich in biodiversity, but not biomass. Build on good science.

NEPAD in action



Regional development of a new vehicle for caring for the people of the western Indian Ocean who depend upon living resources



Capacity building is of paramount importance

The time to act is now

New partnerships are desirable because



Together we can do more





GEF

A reality check











Coelacanth caves in South Africa were eroded in a previous ice age when sea level was much lower



