2-3 November 2010
Hotel Pullman Teranga
Dakar, Senegal





GOOS-AFRICA CONTRIBUTION TO CANARY CURRENT LARGE MARINE ECOSYSTEM

Mbaye DIOP (LERG, Dakar)

et

Justin AHANHANZO (j.ahanhanzo@unesco.org) - + 33 1 45 68 36 41) &

Team Leader-Coordinator

GOOS-AFRICA &

UNESCO Initiative on Satellite Remote Sensing Applications in Africa IOC/UNESCO-GOOS Project Office





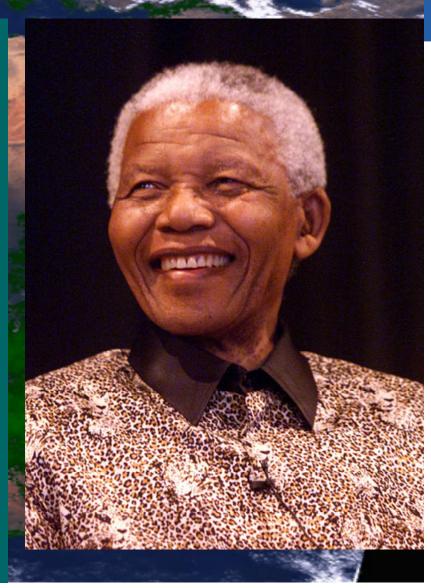
- 1- GOOS-AFRICA: The Framework for Operational Ocean Services in Africa
- 2- Synergy & Contribution to CCLME
- 3- GOOS-AFRICA Forward Look



COUPLING SCIENCES, MANAGEMENT AND HUMAN DEVELOPMENT GOALS

Cape Town Conference in 1998: Political and Legal Framework:

"Africa 's long and beautiful coasts and the abundance of marine can contribute resources improve economic, food and environmental security for the continent. These coastal and marine resources, like the rest of Africa 's environmental resources, continue to be exploited in a manner that does not benefit AFRICA and her PEOPLE. This is a paradox of a people dying from hunger, starvation and poverty when they are potentially so rich and well endowed".







MATTERS OF PUBLIC CONCERNS





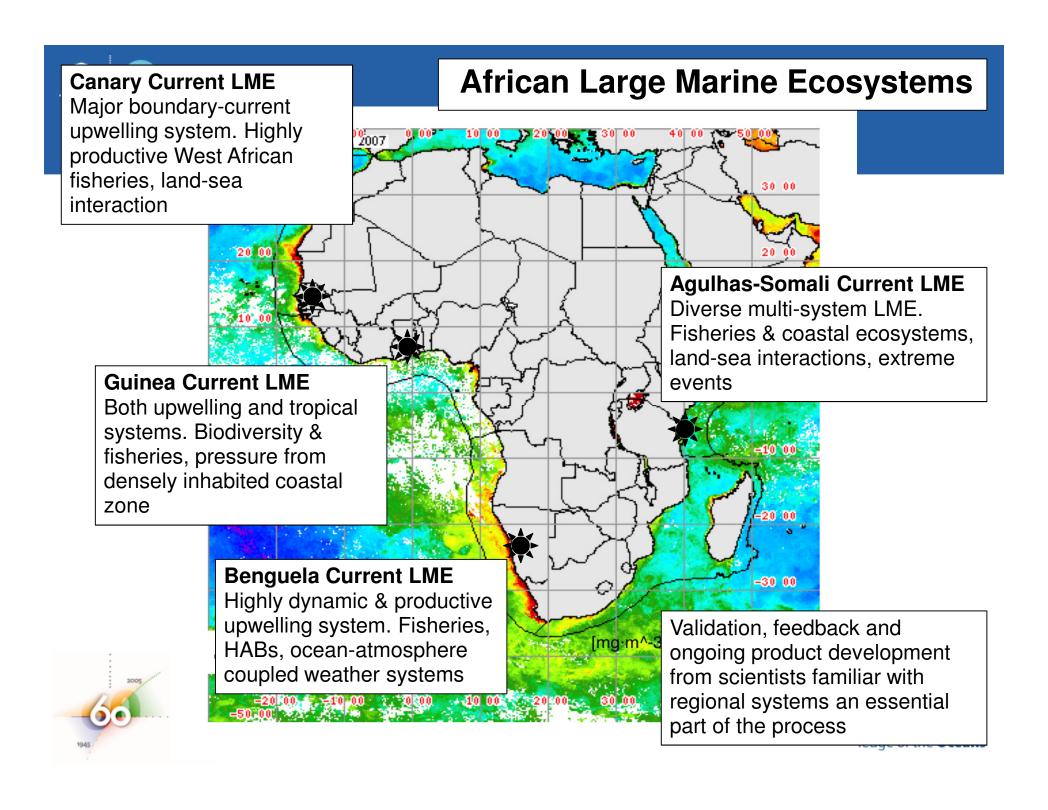








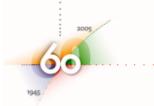






WHAT GOOS-AFRICA CAN DO FOR CCLME

- International Scientific Expertise
- Long-term Coastal Ocean Observations, Monitoring, Predictions and Forecasting Ecosystem
- Training, Education and Capacity Building
- Instrumentation: Standards and Quality
- Network with Center of Excellence in Africa and Overseas
- Access to Funding
- Access to Data and funding of the International Association of Oil and Gas producers: GOOS-AFRICA is a Member
- Strengthen partnerships and Collaboration with other LMEs in Africa and globally



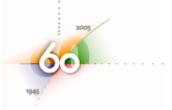


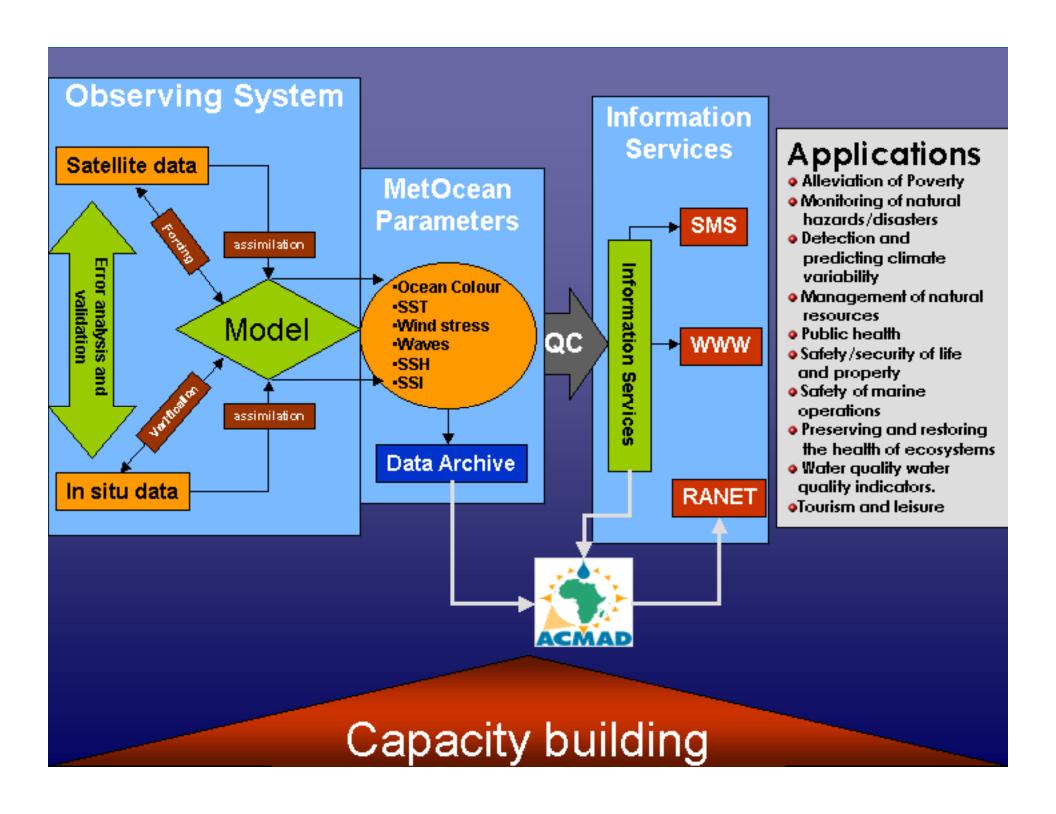


ROOFS-AFRICA
Regional Ocean Observing &
Forecasting System
In Africa

A Multi-modular Approach For Ocean Progress in Africa

In situ observing stations in the coastal ocean
Satellite Remote Sensing of marine and coastal environments
Ocean modelling and forecasting
End-to-end communications and information delivery
Strategic Business and Industry Partnerships
Project management integration and coordination

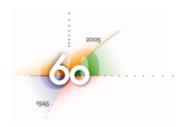






OUR GUIDANCE TOWARDS ACHIEVING

- African Union VISION
- NEPAD Action Plan
- WSSD Implementation Plan
- The Millennium Development Goals

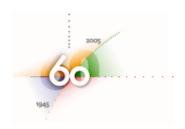




Our Partners for Africa

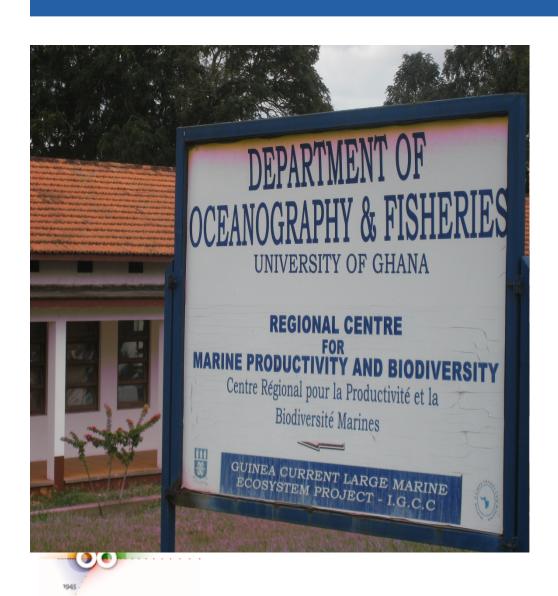
Pan African Large Marine Ecosystem programmes
Ocean Data and Information Network in Africa
Global Ocean Observing System in Africa

Space agencies and remote sensing projects
Business and industry associations
Regional economic groupings
Academic and research institutions
Inter-Governmental Organisations





BEST PRACTICES AND LESSONS LEARNED



SUCCESS STORIES

- With about only 25k \$US, UNESCO established a Chair of Oceanography and Marine Sciences at the UEM in Mozambique as a boost for the Gvt of Mozambique to create a full University Institute in Marine Sciences
- UCAD-Dakar, Senegal
- ICMPA @ UAC-Benin: UNESCO Chair in Physical Oceanography and Regional Center for Climate Modelling.





- 1) African research and higher education centers are the key players: UCT, CSIR, Univ Ghana, IMS, NatMIRC, LERG, ICMPA, WIOMSA, UNESCO CHAIR/Benin, Univ Mozambique, RECTAS, RCMRD, AARSE, EIS-AFRICA, etc.
- 2) Overseas partners: National Oceanography Centre, Southampton and PML, U K, Department of Water Resources and Earth Systems Analysis, ITC, The Netherlands, VITO, NOAA, NASA, African Scientific Institute, etc.
- 3) IOC/UNESCO GOOS Project Office Coordination/fund raising







































CIENCE, EDUCATION and ICT KEY TO POVERTY ALL EVIATION









Knowledge of the Oceans



Pan-African Workshop "Decision-Making Support for Coastal Zone Management, Water Resources and Climate Change in Africa" Cotonou-Benin 15-17 February 2010.

Sub-Theme 1: Strengthening Observing Systems Capacity for Managing and Mitigating the Impacts of Human Activities and Coastal Inundation in the African Region

Sub-Theme 2: Climate change and water resources management and related issues in Africa

Jimmy Adegoke, CSIR, South Africa Justin Ahanhanzo, IOC/UNESCO Abel Afouda, University of Abome-Calavi, Benin Geoff Brundrit, UCT, South Africa







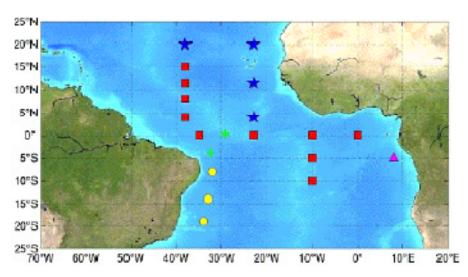








PIRATA IS THE PILOT MOORED ARRAY IN THE TROPICAL ATLANTIC



Status of the PIRATA array of Atlas Mooring. Original array (red), South West extension (Brazil), South East extension (purple) and Northeast extension (blue)

PIRATA (Brazil, France, USA) has deployed between 1997 and 2001, an array of 12 ATLAS buoys with the objective of describing and understanding the evolution of SST, upper ocean thermal and saline structure, net heat budget, air-sea fluxes of momentum, latent and sensible heat and fresh water in the tropical Atlantic. The ocean observations along with meteorological observations are transmitted to shore via satellite by Service Argos and are available in near real-time on the Internet.

A Southwest extension was made by Brazil in 2005, a northeast extension by USA

LME and GOOS Meeting Cape Town 6-10 November 2006





PUBLIC AWARENESS @ HIGH LEVEL: UNESCO/IOC-AFRICAN OCEAN PARTNERSHIP CONTRIBUTION TO GEO-IV Ministerial Conference Cape Town, November 2007





Première page | Politique | Economie | Societe | Sport | Culture | Afrique | Monde | Dossiers



TES PROCHES.

SUr 24

13:44 - Un leader religieux appelle à l'éducation des fidèles

24 heures

12:46 - Foot: La formation

12:31 - Football/Mondial 2006: Franz Beckenbauer attendu mardi à Luanda

12:28 - Inauguration L'une laiterie à Huambo

12:23 - Le ministre de la Communication sociale à Kwanza-sul

12:04 - Réunion de la comission provinciale électorale de <u>Cabinda</u>

11:17 -Basket/Messieurs: Jean Piaget remporte le

tournoi 49 ans du MPLA

Apport de la Télédétection dans la gestion des Aires protégées

Kinshasa, RD Congo, 04/12 - La télédétection peut se révéler d'un apport important dans la gestion des aires protégées car on peut, à partir d'elle, produire des cartes géographiques actualisées capables de fournir des renseignements ou des informations nécessaires dans le traçage des pistes pour guider les visiteurs, a estimé l'océanographe Justin Ahananzho de l'UNESCO/Paris.

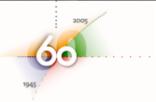
Dans un entretien accordé jeudi à la PANA au cours d'une visite guidée que des participants à un atelier national sur la télédétection ont effectué jeudi au Jardin botanique de Kisantu, dans la province du Bas-Congo, à environ 70 Km à l'Ouest de Kinshasa, M. Ahanharzo a défini cette discipline comme étant une technique qui permet de recueillir des informations à partir des images prises par satellite dans le cadre de l'eau, des forêts, des écosystèmes marins, côtiers et des mangroves.

Ces informations recueillies sont comparées, enregistrées sur des longues séries et périodes pour observer leur évolution, a-t-il noté.

Cet expert de l'UNESCO a fait ce rapprochement entre la télédétection et la gestion des Aires protégées.

Dans ce site touristique, ces derniers ont pu contempler le musée, la paléontologie, l'herbarium, la bibliothèque du Jardin avant de sillonner l'échantillon de la forêt tropicale humide et le mangoustanier où ils ont pu découvert plusieurs espèces d'essences d'arbres notamment l'Arbre qui marche, l'Arbre du bonheur, etc. que renferment les lieux.

Selon Mme Francesca Lanata, assistante technique au Projet de réhabilitation de Jardin Botanique de Kisantu, l'Union européenne a accordé 400.000 euros pour la réhabilitation de ce site et pour la formation de







The Challenges...

- 1- Availability of Human and financial resources
- 2- Accessibility to data
- 3- Empowerment of Regional capacity in EO with particular emphasis on natural resources management including Oceanography and Earth Sciences studies with a strategy combining the provision of training, equipment and operational support
- 4- Regional Training Programmes (M. Sc/Ph. D) in EO with particular emphasis on Operational Oceanography, modelling, Climate Change and Earth Sciences.

Knowledge of the Oceans



GOOS AFRICA Industry Partnerships

International Association of Oil and Gas Producers www.ogp.org.uk

http://info.ogp.org.uk/metocean

GOOS AFRICA International Projects

UNESCO Crosscutting Project on Application of Remote Sensing for the Integrated Management of Ecosystems and Water Resources in Africa

FET REMSENS

ChloroGIN Africa Geo Net Cast Africa MSG Africa BILKO Africa Alt/SAR Africa

Capacity Building

UNESCO IOC

http://ioc.unesco.org/tema www.ioc-cd.org

Sea Level

www.gloss-sealevel.org

Remote Sensing

www.noc.soton.ac.uk/bilko

Data & Information Exchange

http://iodeweb5.vliz.be/oceanteacher

Earth System Science ACCESS

www.africanclimatescience.org

Outreach and Promotion

Western Indian Ocean Journal of Marine Science

www.wiomsa.org

African Journal of Marine Science www.nisc.co.za

OCEAN PARTNERSHIPS IN AFRICA

Pan African Large Marine Ecosystems





SOME IMPORTANT LINKS AND POINTS OF CONTACT

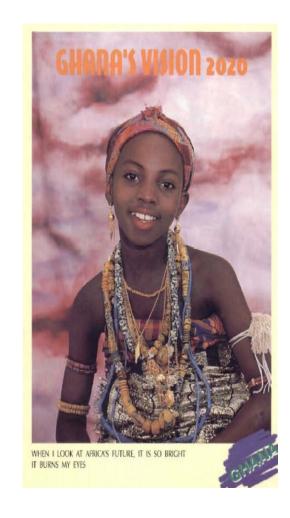


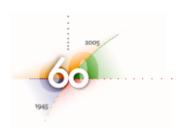


WHAT IMPACTS AND LEGACIES DO YOU WANT TO MAKE IN AFRICA?

THE BRIGHTEST FUTURE IN STI IN AFRICA

When I look at
Africa's future, it is
so bright that I am
excited and truly COMMITTED
to the efforts towards the
Brightest future in STI in
Africa including
OPERATIONAL
OCEANOGRAPHY







Main contact

- j.ahanhanzo@unesco.org
- + 33 1 45 68 36 41

