

**AFRICAN SESSION
LARGE MARINE ECOSYSTEMS PROJECTS
AND GOOS AND GEOSS
IN
AFRICA**

IOC-IUCN-NOAA-UNEP

Large Marine Ecosystem 8th Consultative Committee Meeting

UNESCO Headquarters, 04 July 2006

Geoff Brundrit, GOOS-AFRICA Chairman

**Justin AHANHANZO, GOOS-AFRICA Coordinator
IOC/UNESCO-Paris**

**1- PAN-AFRICAN LMEs
GOOS-AFRICA LEADERSHIP
WORKSHOP**

UCT-Cape Town, 6-10 November 2006

**2- SECOND PAN-AFRICAN FORUM
OF THE AFRICAN LMEs**

UCT-Cape Town, 13 November 2006

Co-Chairs: Professors Chidi Ibe, Mike O'Toole, Geoff Brundrit

Technical Secretary: Justin AHANHANZO

GOOS-AFRICA Coordinator

IOC/UNESCO-Paris

Outline

1-Justification

2-Why a Joint LME-GOOS-AFRICA Workshop?

**2-1. The LMEs in Africa: A ROOT for the Rise of GOOS
AFRICA: Observations and Forecasting: WHAT FOR?**

**2-2. GOOS-AFRICA: A Complete set for Ocean
Progress in Africa: Modular Approach**

3-Why Leadership?

4-What Plans for Which Results?

**5- Concluding Remarks: A Bright FUTURE
for LMEs and GOOS Development in Africa.**

I-Justification: Institutional framework of IOC/UNESCO and the United Nations

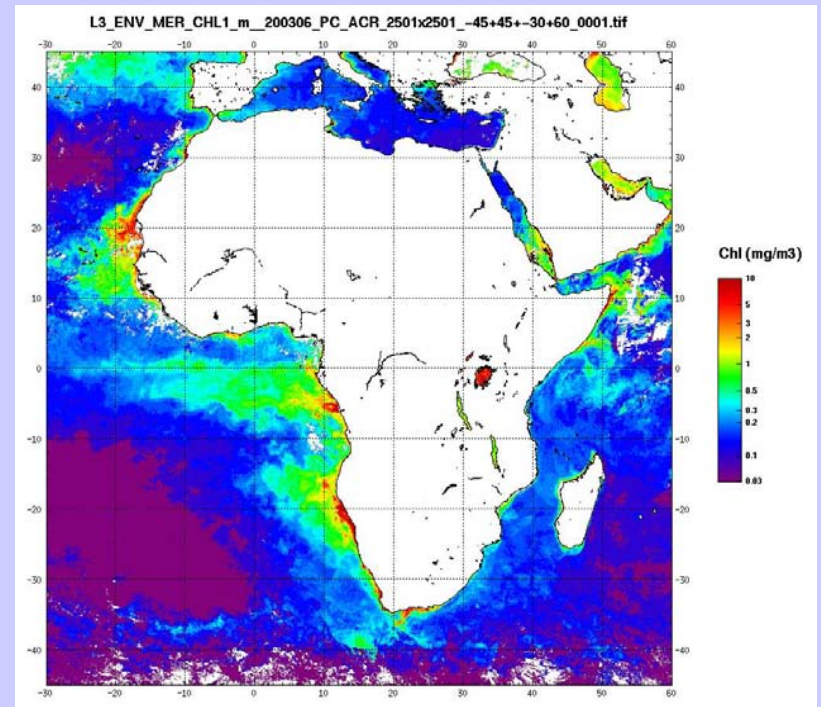
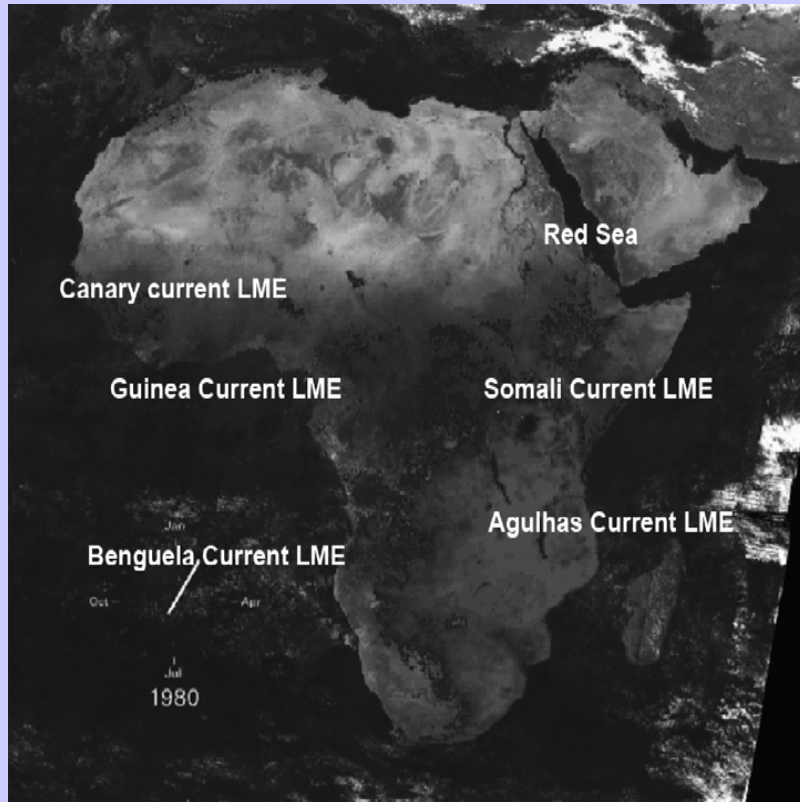
1- 37th Session of IOC/EC

2- 6th Session: IOC/IUCN/NOAA LME Meeting

3-GOOS-AFRICA/LME Leadership Session at the CCLME Meeting

II-Why a Joint LME GOOS-AFRICA Workshop?

- 1-African Wisdom: NEVER FORGT WHERE YOU COME FROM
- 2-AFRICA: HOME FOR 6 MAGNIFICENT LMEs=NATURAL LABORATORY FOR LAND/AIR/SEA INTERACTIONS



II-2-GOOS-AFRICA: WHAT IT IS?

3 KEY GUIDING PRINCIPLES

Grassroots Approach

Ownership

Leadership of Stakeholders involved

1998: Formal establishment at African Ministerial Conference

2001: Inclusion in the Nairobi Convention

2002: Inclusion in the Abidjan Convention

2002: Adoption by the Summit of African Heads of States (July)

**2002: Presentation by the Heads of States at the WSSD as a
Priority Program for Africa's Development**

**2003: Inclusion in the NEPAD Environmental Action Plan presented at the
Donors Conference and at the UN –New York Conference on
Sustainable Development and the
G8-Kananaski Summit**

II-2-GOOS-AFRICA

WHY Ocean Observation Systems in AFRICA?

- **Offshore and Coastal OIL & GAS**
- **Shipping and trade**
- **Offshore and Coastal Mining**
- **Coastal and offshore Fisheries**
- **Integrated Coastal Zone Management**
- **Seaside tourism**
- **Public Safety/Health & protection of properties**
- **Early Warning Systems**

2-2. GOOS-AFRICA

A Complete set for Ocean Progress in Africa: A Multimodular Approach

2-2.1. Ocean In situ Observations & Measurements

2-2.2. Ocean Satellite Remote Sensing

2-2.3. Ocean Modelling

**2-2.4. Ocean Hindcasts/Nowcast/Forecasts and Data
Assimilation**

**3- Strategic Business and Industry Partnership &
Positive Synergy**

**4-SPECIFIC ACTIONS WITH THE LMES: A
Route from Cape Town to the Second Global
Conference on LMEs in Qingdao, China, 2007**

PARTNERSHIP & POSITIVE SYNERGY AREAS FOR COOPERATION

1-Reinforcing African Solidarity & Integration

Relying on regional strengths: African Regional Institutions and Programmes: LMEs, ADB, ACMAD, ECOWAS, UEMOA, COMESA, SADC, AU-NEPAD Leadership, LME, Metoffices

2-GOOS Regional Alliances

3- Fostering International Cooperation with UN & non UN Agencies: WMO, UNEP, UNOOSA, UNDP, GEF, NOAA, IRD, ITC , SOC, UK Met services

4- Private Sector: OGP, Fisheries industries, Mining...

GOOS-AFRICA: Complementarities and linkages with existing programmes and projects: Building on regional initiatives

PIRATA NE Extensions
Canary current LME

MEDGOOS
I
W
A

AMMA
Guinea Current LME

PUMA
CLIVAR-AFRICA

G C O S

Somali Current LME

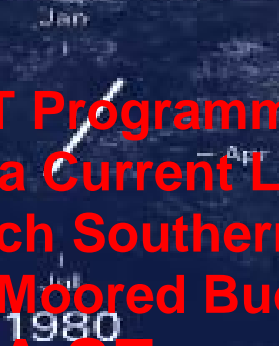
ODINAFRICA

WIOMAP

BENEFIT Programme
Benguela Current LME
Sea Watch Southern Africa
Coastal Moored Buoy System
PIRATA SE

Agulhas Current LME

GEF Funded activities



GOOS-AFRICA

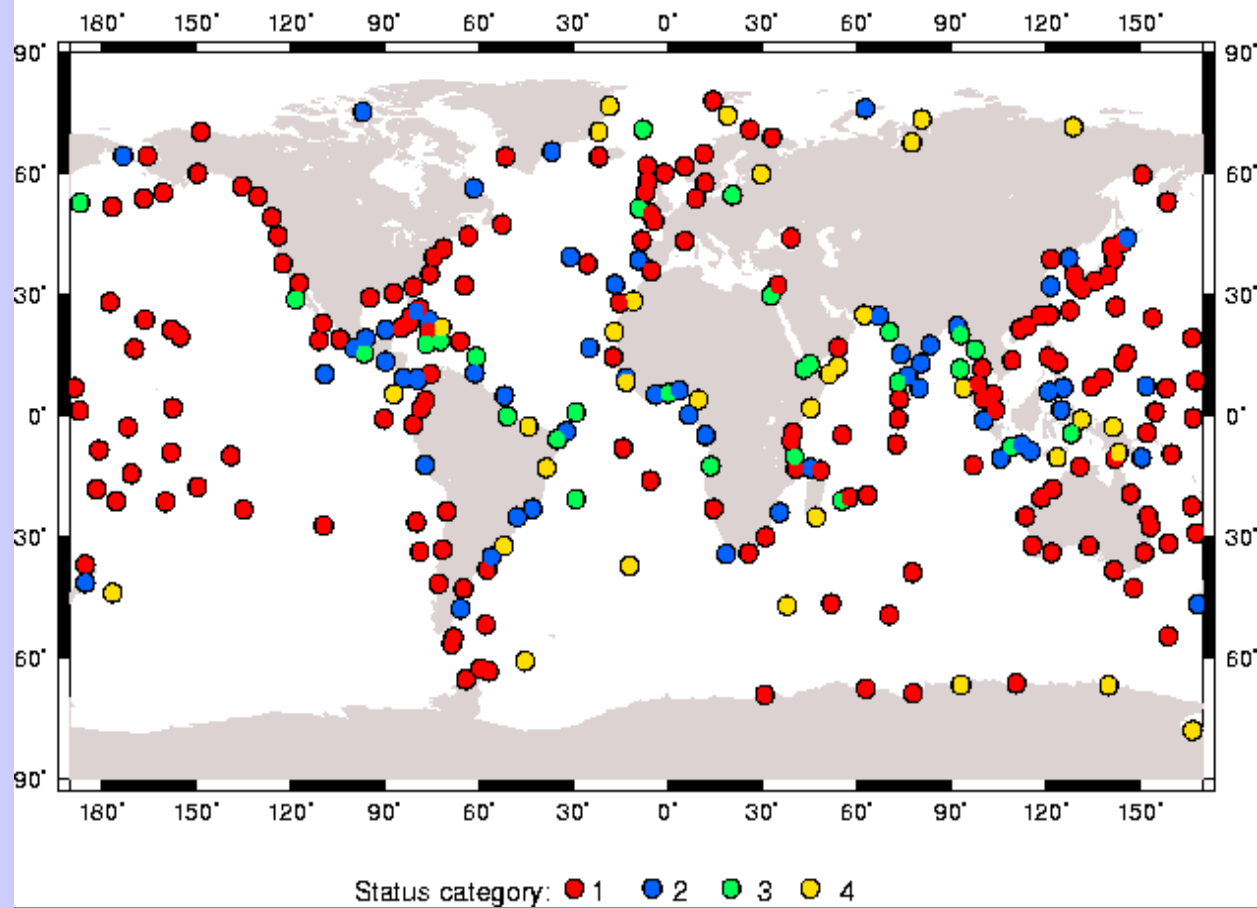
A common platform of Ocean & Coastal Services to Africa for:

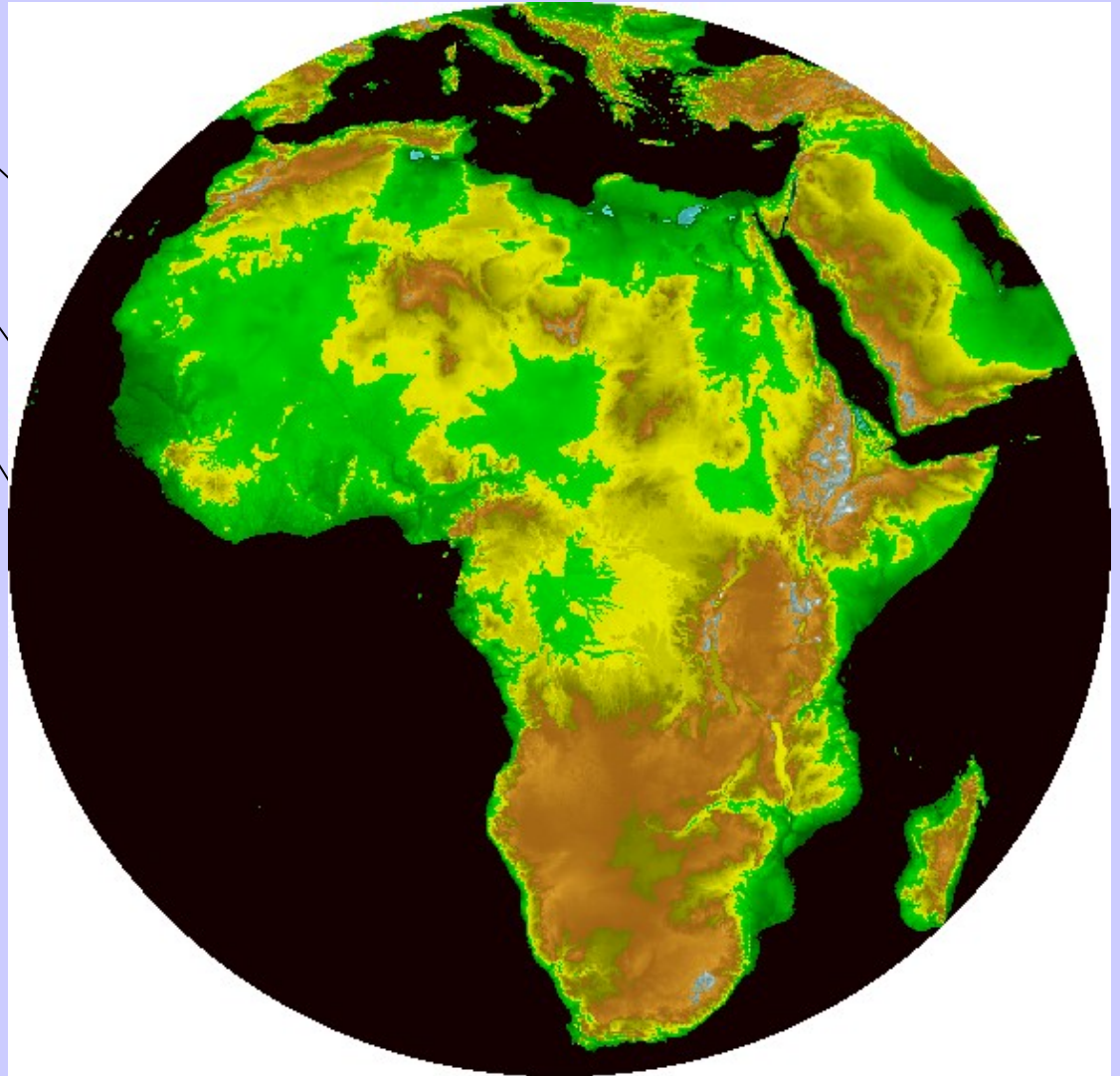
- **Assessment**
- **Forecasting**
- **Establishment of Early Warning Systems of Floods, Droughts, Sea Level Rise and their**
- **Impacts on Ecosystems and**
- **People dependent on them.**
- **Socio-economic approach integrating values of Offshore Infrastructures, vulnerable ecosystems including Bio-reserves and World Heritages sites.**

**A Bright future for development of GOOS
The African Network of In Situ Ocean
Measurements and Sea Level Records**

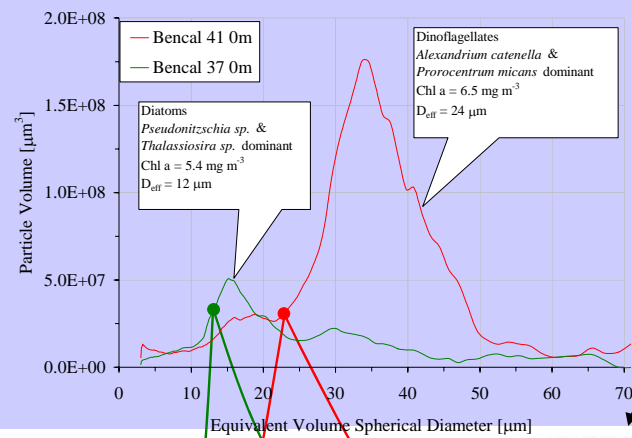


GLOSS status within the PSMSL dataset. October 2001

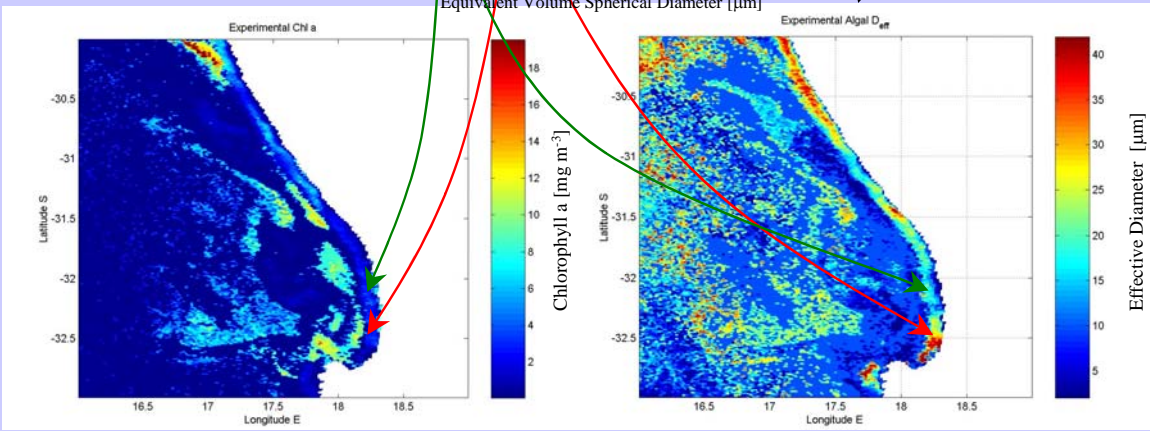




Measured in-water particle size distribution data from the FRS Africana, showing the difference in size of the two algal assemblages despite their similar chlorophyll a concentrations



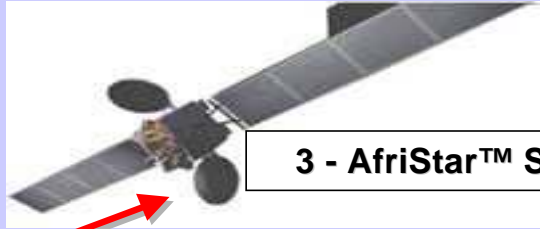
Size and Chl a data from the inverse reflectance algorithm - despite the speckling at low bio-mass, the size product demonstrates that it is possible to distinguish between a large cell size dinoflagellate community and a smaller sized diatom community



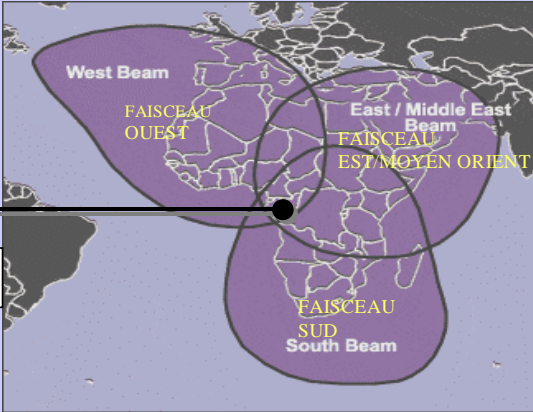
End-User Interactive Communication and Information Delivery System: Public Awareness saving your LIFE



RANET LOOP



3 - AfriStar™ SATELLITE



2 - UPLINK STATION



1 - SERVER

WEB



4 - IN « CID* » : DOWNLOADING ADAPTATION - FM BROADCAST & FEED-BACK (e-mail)



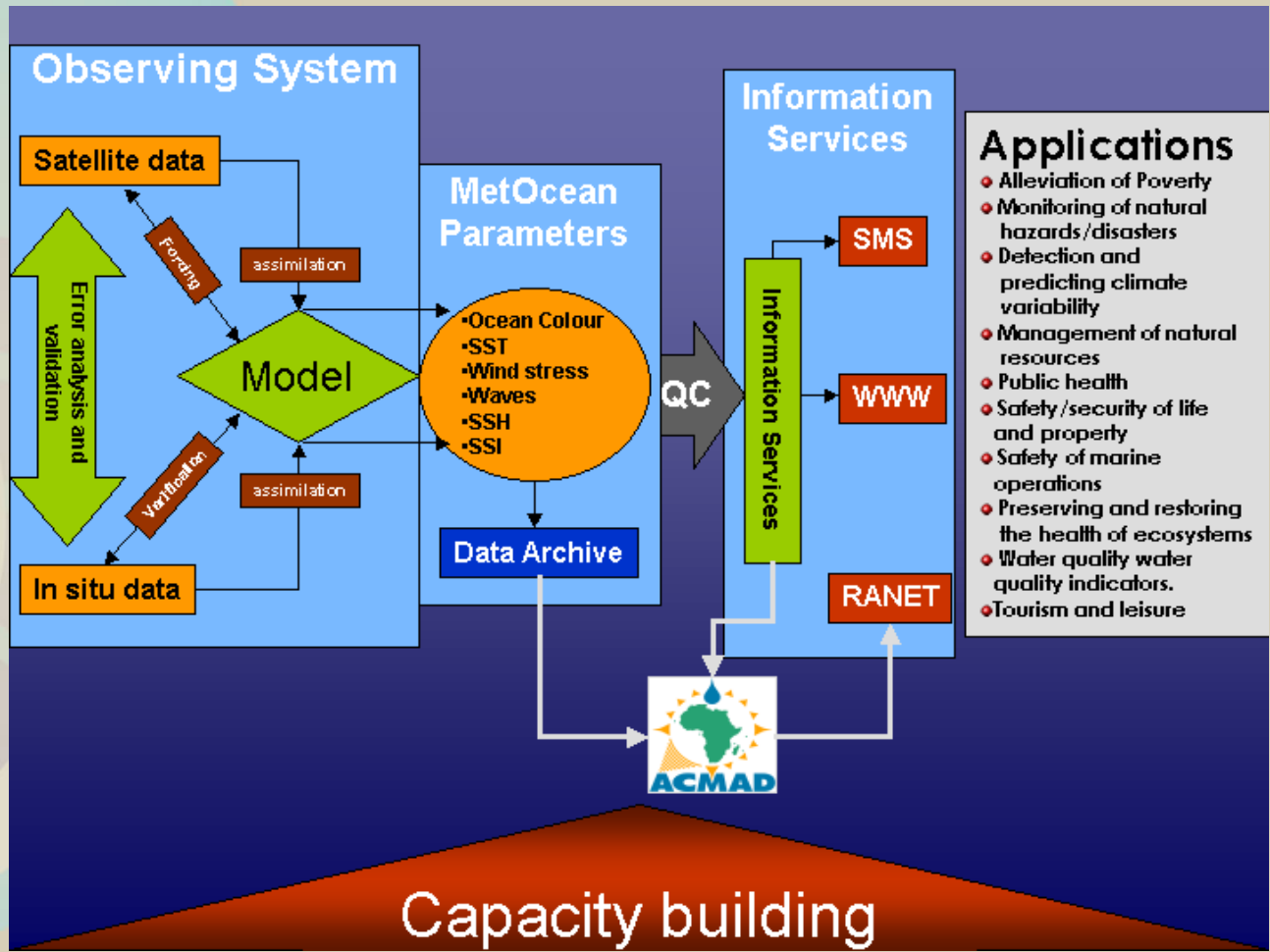
5 - SOLAR & WIND 'UP RADIO



* CID : Community Center of Integrated Information for Development



GOOS-AFRICA Vision & Strategy for Capacity Building in Operational Oceanography to support AFRICA's Development



GOOS-AFRICA Vision for the Future in cooperation with the LMEs

Status of Observing, Forecasting and Monitoring Systems in the BCLME

Status of GOOS-AFRICA related Activities in the CCLME
Status of Observing, Forecasting and Monitoring Systems in the GCLME

Status Implementation of the ASLME

Status of the joint Pan-African proposal on "Networking and Capacity Strengthening towards Adaptation to Climate Change in the framework of poverty alleviation strategies for Coastal Communities in Africa".

GOOS-AFRICA Vision for the Future in cooperation with the LMEs

Progress status on cooperation with the International Association of Oil and Gas Producers (OGP)

Meteorological and Ocean Committee. Framework for a renewed Cooperation between AFRICA and NORWAY in the favourable empowerment context of African LMEs and GOOS-AFRICA based on early cooperation with NORAD and Nansen Foundation.

Status of Cooperation with the African Development Bank: Results of the 52nd Coordination Meeting between UNESCO and the Bank.

GOOS-AFRICA Vision for the Future in cooperation with the LMEs

Needs for Reinforcing Satellite Remote Sensing Applications and Modelling to the African LMEs and GOOS-AFRICA: Recent Success Stories.

African Experiences and Contribution to the 3rd Forum of the GOOS Regional Alliances, 14-17 November 2006, Cape Town.

Contribution of the African LMEs and GOOS-AFRICA to the African Union New Partnership for Africa's Development (AU/NEPAD) Environmental Action Plan related to Coastal and Marine; and Sciences and Technology Networking.

Making a DIFFERENCE during our lifetime

1- Beyond Capacity Building: EMPOWER

EXISTING AFRICAN CAPACITY

2-African Marine Sciences LEADERS in charge

3-Association with World Class Marine Scientists

4-Next generation of African Marine scientists

5-Regional Ocean Reference Centers: Promote infrastructures/working facilities and opportunities at HOME

... And MORE at the Cape Town Meetings

I-V Plans vs Results

- 1- Assessment of the requirements: LME vs GOOS and restraints**
- 2- Description/specification of requirements for implementation and restraints**
- 3- Potential implementable and sustainable strategies**
- 4- Joint plan for LMEs & GOOS-AFRICA strengthening ties**
- 5- Utilization of the African LMEs network for the implementation of GOOS-AFRICA and vice versa for capacity strengthening/Empowerment**
- 6- A blueprint for consideration by GRF at its 3rd Forum, 14-17 November 2006 and the the IW of the GEF for fast-tracking and implementation**
- 7- Dissemination and knowledge sharing of success stories and lessons learned on LMEs**
- 8- A Book: African Oceans 2025: Vision of African marine scientists and Managers on the development of Operational Oceanography in 20 years**

**The BCLME Activity Center at the UCT
Cape Town - South Africa: The Destination for
3 sequential back-to-back
LMEs and GOOS Meetings**

ALL LMEs are MOST WELCOME to the Meetings

**6-10 November 2006: Pan-African LMEs/GOOS-
AFRICA Leadership Workshop on Operational
Oceanography and Remote Sensing in Africa**

**13 November 2006: The Second Pan-African LMEs
Forum**

**14-17 November 2006: The Third Forum of the
GOOS Regional Alliances**

Key planning and organizational questions to be discussed with the LMEs Directors:

- 1- IW: LEARN Economic Valuation Workshop
- 2-TimeFrame for finalising the Concept document and agenda
- 3-Timeframe for the Position Papers
- 4-Timeframe for the designation of Keynote Speakers
- 5-Timeframe for the selection of participants/Experts
- 6-Participation of the Ministers
- 7-What would be the key African contribution to the Forum of the GOOS Regional Alliances

Appreciation to African LMEs
Directors and Coordinators,
GOOS-AFRICA Coordinating
Committee, Global LMEs
Leaders, GSSC and I-GOOS
Board for their significant
contribution, advices and
guidance