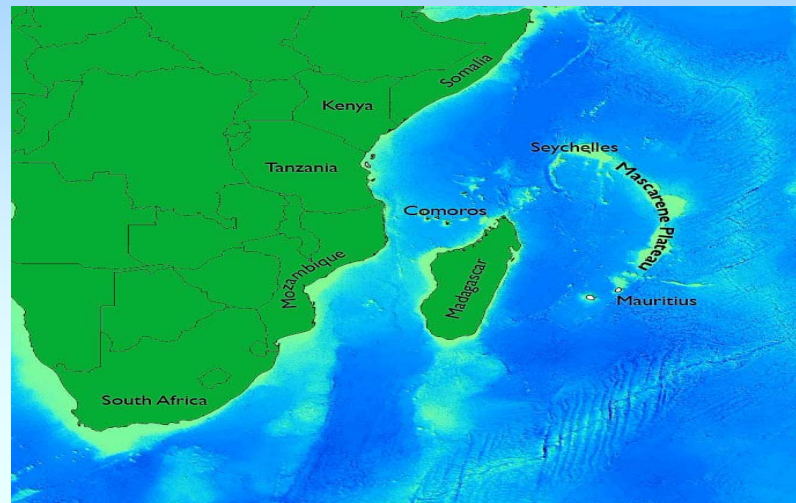


# Report of the DBCP Capacity Building Task Team TT-CB



**DBCP XXVII**  
**Geneva, Switzerland**  
**28 September 2011**

**Presented by Dr. Sidney Thurston**  
Lead, DBCP Capacity Building Task Team  
NOAA Climate Program Office

# DBCP Capacity Building Task Team Members

- DBCP Chairperson,
- DBCP Executive Board members,
- DBCP Vice-chairpersons (or their respective deputies),
- DBCP Technical Coordinator,
- Ali Mafimbo (Kenya),
- G. Latha (India),
- Johan Stander (South Africa),
- Lucy Scott (South Africa),
- Hamad Mohammed Al Gheilani (Oman),
- Mathieu Belbeoch (Argo Technical Coordinator),
- Bill Burnett (USA),
- Walter Flores Servat (Peru),
- Djoko Hartoyo (Indonesia),
- Byung-Gul Lee (Korea),
- Kwan-Chang Lim (Korea),
- Rick Lumpkin (USA),
- David Meldrum (UK),
- Jean Rolland (France),
- R. Venkatesan (India),
- Representative of the IOC & WMO Secretariats,
- Sidney Thurston (USA).

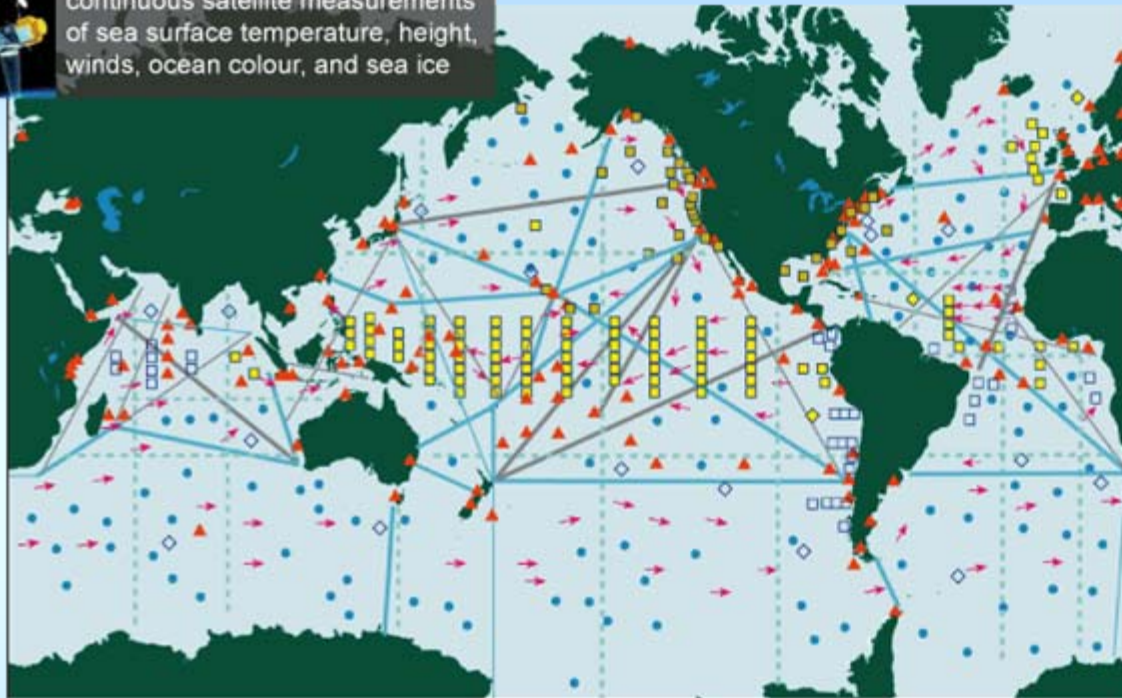
# The DBCP Task Team on Capacity-Building shall:

- Initiate, plan and coordinate the implementation of the Training and Capacity-Building work programme including, in particular, the regular Training Course on Buoy Programme Implementation and Data Management;
- Review and assess national, regional, and global requirements for capacity-building and develop / improve programmes as appropriate;
- Liaise with other capacity-building programmes in relevant areas to develop and implement integrated activities, to explore potential synergies and opportunities for efficiently using resources available; liaise in particular with the JCOMM cross-cutting Team on Capacity-Building;
- Endeavour to mobilize the resources required for DBCP capacity-building, including those needed for the implementation of the Training Courses;
- Make recommendations to the DBCP Executive Board and / or the DBCP for addressing the issues above;

# Initial Global Ocean Observing System for Climate

## Status against the GCOS Implementation Plan and JCOMM targets

continuous satellite measurements of sea surface temperature, height, winds, ocean colour, and sea ice



**87%** Surface measurements from volunteer ships (VOSclim)  
200 ships in pilot project



**100%** Global drifting surface buoy array  
5° resolution array: 1250 floats



**62%** Tide gauge network (GCOS subset of GLOSS core network)  
170 real-time reporting gauges



**81%** XBT sub-surface temperature section network  
51 lines occupied



**100%** Argo profiling float network  
3° resolution array: 3000 floats



**43%** Repeat hydrography and carbon inventory  
Full ocean survey in 10 years

**24%** Reference time series  
58 sites



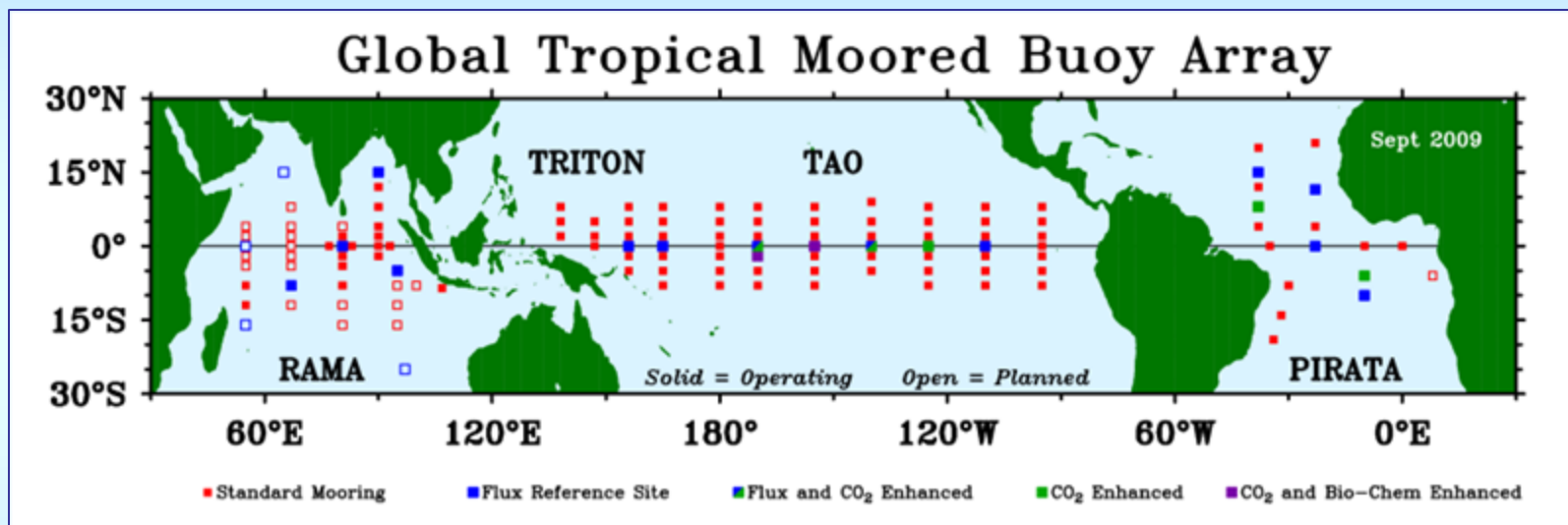
**48%** Global reference mooring network  
29 moorings planned



**79%** Global tropical moored buoy network  
119 moorings planned



# Global Tropical Moored Buoy Array



# Second In-Region Capacity Building Workshop of the WMO/IOC Data Buoy Cooperation Panel (DBCP) and Partners for the Western Indian Ocean

Mauritius, 2-6 May 2011



- Continue to Build Capacity Within Regional Met/Ocean/Climate Institutes to Apply New Indian Ocean Observing System (IndOOS) Data, such as from RAMA,
- Provide Training in Deployments and Management of in-situ Ocean Observations,
- Coordinate synergies with African Monitoring of the Environment for Sustainable Development (AMESD) for In-situ Ocean Observations for the Western Indian Ocean,
- Continue to Build In-Region Modelling Development Teams (MDT) and Observation Development Teams (ODT).

# Sponsors and Contributors

- WMO/IOC JCOMM Data Buoy Cooperation Panel (DBCP)
- South African Weather Service (SAWS)
- Intergovernmental Oceanographic Commission (IOC)
- National Oceanic and Atmospheric Administration (NOAA), USA
- UNDP/GEF Agulhas-Somali Current Large Marine Ecosystems Project (ASCLME)
- Ministry of Earth Sciences (MoES), India
- Global Learning and Observations to Benefit the Environment (GLOBE)
- African Monitoring of the Environment for Sustainable Development (AMESD)
- Scientific Committee for Oceanic Research (SCOR-136)

# Over Sixty Participants Represented

- South Africa
- India
- Kenya
- Tanzania
- Sri Lanka
- Madagascar
- Japan
- Australia
- Mauritius
- Seychelles
- Uganda
- Ethiopia
- Pakistan
- Namibia
- United States
- UK



# Five Workshop Resolutions

1. ASCLME to further develop an Alliance in the WIO to coordinate and integrate scientific effort and activities in the region with the ultimate aim of delivering end-products for management and governance in support of the social and economic needs of the countries,
2. The Observation Development Team (ODT) recommends that appropriate glider technology be used in a pilot project to see if real-time weather observations can be collected within this data sparse area,
3. Advance links between remote sensing and in-situ observations with African Monitoring of the Environment for Sustainable Development (AMESD) and DBCP,
4. Provide drifting weather buoys be supplied to African countries as a pilot project.

# Five Workshop Resolutions (cont)

## 5. Build Observations to Investigate:

- East Africa Low Level jet
- Convergence zone of the EACC and SC
- Wind derivatives over the upwelling region of the East African Coast
- MJO
- Equatorial trapped Kelvin Waves and Rossby waves



IOC

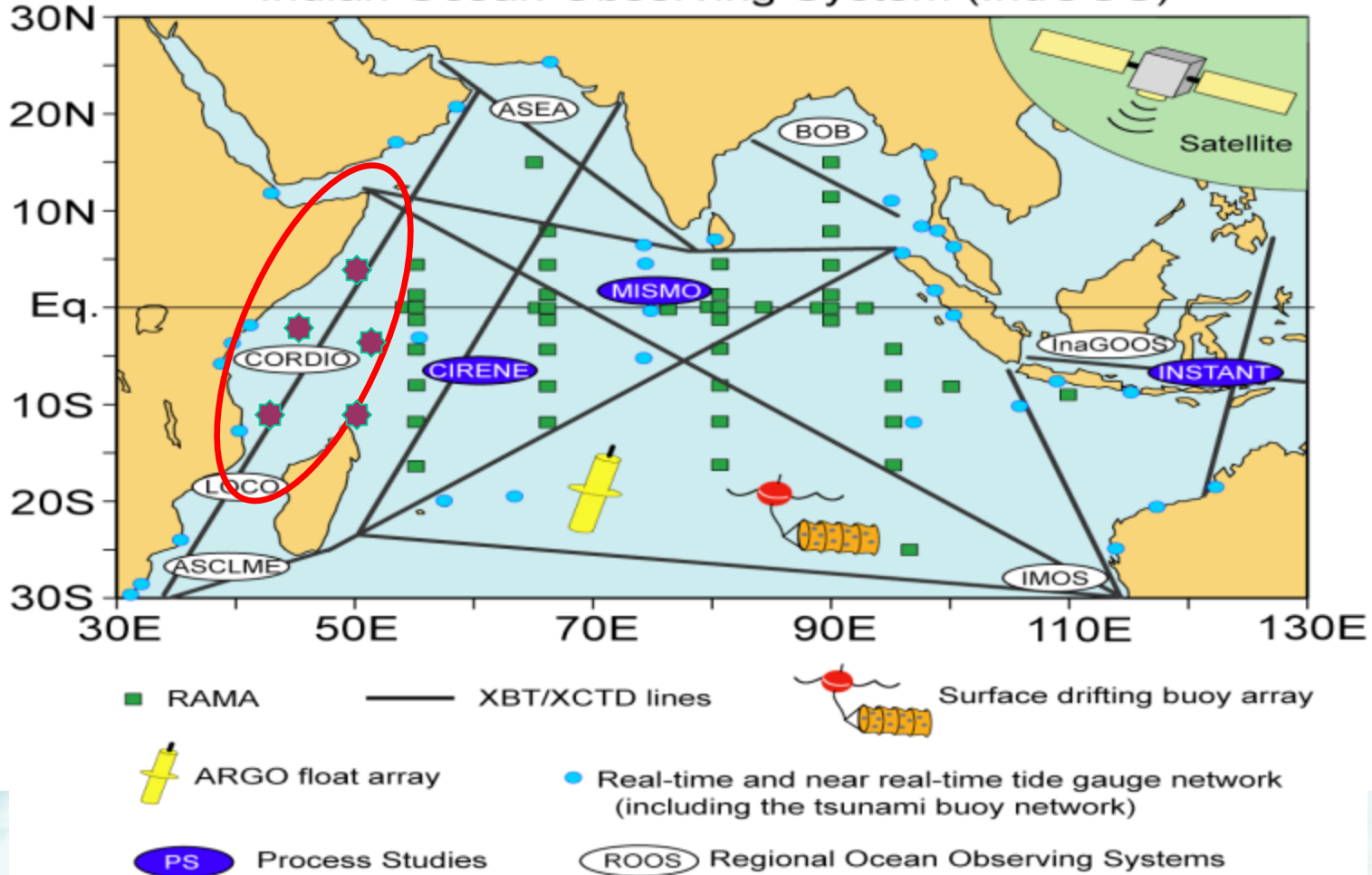


WMO



# Proposed moored buoys

## Indian Ocean Observing System (IndOOS)



# TT-CB Plans for 2012

Convene WIO-3 in Mombasa Kenya April 2012

Ali Mafimbo Lead

Convene Northeast Asian Ocean Capacity Building (NEO-CB) Professor Byung-Gil Lee, Lead

Explore Information & Communications Technology (ICT) Advances for future TT-CB In-Region Capacity Building and Training Workshops to a broader audience around the world

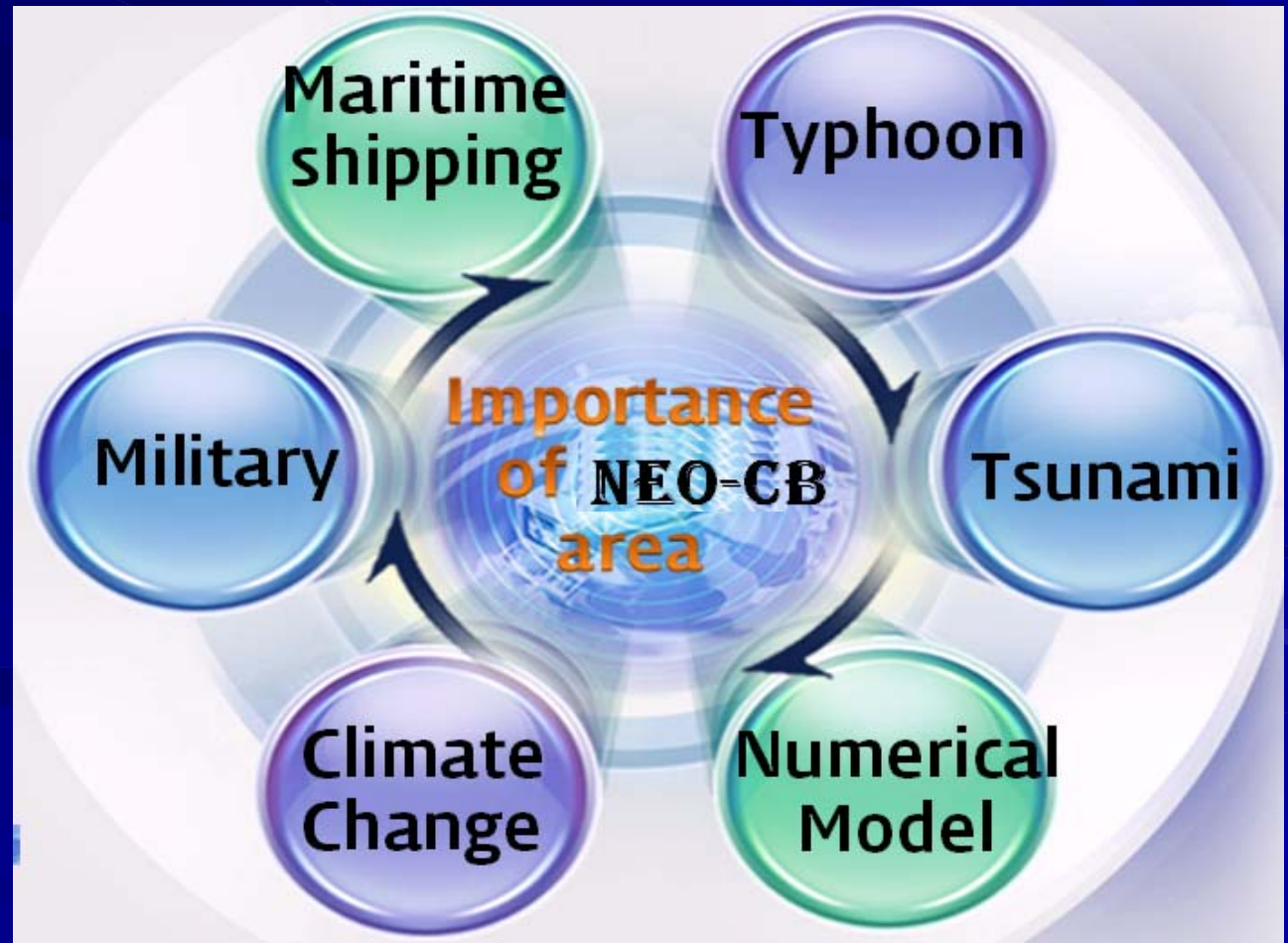
Convene DBCP Asia Capacity Building Workshop  
Dr.R.Venkatesan, Lead

# Workshop Goals of the Third DBCP Western Indian Ocean Capacity Building Workshop (WIO-3) April 2012 Mombasa Kenya

- Implementation and Operations Of Indian Ocean Data Buoy Networks and their Applications for Enhancing Regional Predictive Capability
- Continue to Build Capacity Within Regional Institutes to Apply New Indian Ocean Observing System (IndOOS) Data, such as from RAMA and others, for Enhanced Predictive Capability for the Region,
- Demonstrate the Crucial Role of Ocean Observations for Understanding and Predicting Regional Weather, Ocean and climate,
- Build In-Region Modelling Development Teams (MDT) and Observation Development Teams (ODT), including for the implementation of buoy programmes,
- Demonstrate the Societal and Economic Benefits of Delivering Enhanced Ocean Observing System Data for Better Informed Decisions,

# Objective:

Sharing of resources to achieve the mutual aims and objectives in terms of ocean and meteorology data collection, analysis and its application for management and governance in Northeast Asian Ocean



# DBCP Capacity Building - Proposed Asia Regional Workshop on Best Practices for Instruments and Methods of Ocean Observation

- **New Users:** This workshop will attract new countries in this region - to mention a few Sri Lanka, Bangladesh, Maldives, Myanmar, Cambodia, Philippines.
- **Venue:** Proposed to be hosted by National Institute of Ocean Technology Ministry of Earth Sciences Government of India, Chennai India.
- **Aim:** The aim of this workshop is capacity building exercise on best of practice on calibration and testing instruments for ocean observations

# Thank you!

## DBCP Capacity Building Task Team (TT-CB)



[www.jcomm.info/pangea-concept](http://www.jcomm.info/pangea-concept)