

Partnerships and Capacity Building



www.jcomm.info/pangea-concept

**DBCP-29 Science and Technology Workshop
Paris France
23 September 2013**

**Dr. Sidney Thurston
Lead, DBCP Capacity Building
NOAA Office of Climate Observation (OCO)**



Presentation Outline

- 4th DBCP Capacity Building Workshop for the Western Indian Ocean (WIO-4)
- Deployment of a WIO Wave Glider
- New R/V for Western Indian Ocean
- North Pacific Ocean Typhoon Workshop NPOMS-2 Next Month
- Capacity Building Task Team Meeting Tomorrow





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PANGEA

The Partnership for New GEOSS Applications (PANGEA)

Author(s)	Secretariat
Summary	The Partnership for new GEOSS Applications (PANGEA) is a concept developed by the Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM) with the goal to develop partnership between developed and developing countries to realize the socio-economical benefits of ocean observing systems at global and regional scales.
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English (v1.0, 189 KB)

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Recent DBCP Capacity Building PANGEA Workshops for the Indian Ocean



Capetown April 2010



Mombasa Kenya May 2012



Mauritius May 2011



Zanzibar Tanzania April 2013

4th In-Region DBCP Western Indian Ocean Capacity Building Workshop WIO-4



Fourth DBCP In-Region Capacity Building Workshop for the Western Indian Ocean (WIO-4)

Zanzibar Tanzania
29 April – 3 May 2013



- Hosted By the Tanzania Meteorological Agency (TMA) Dr. Agnes Kijazi, WMO Permanent Representative &
- Tanzania Institute for Marine Sciences (IMS) Dr. Desiderius CP Masalu, Director
- Forty Participants from WMO Regional Associations I & II

www.jcomm.info/wio-dbc4

WIO-4 Zanzibar Tanzania

The Organizers wish to Thank the IOC Perth Regional Program Office for its Strong Support



Bio-physical Interactions in the Western Indian Ocean



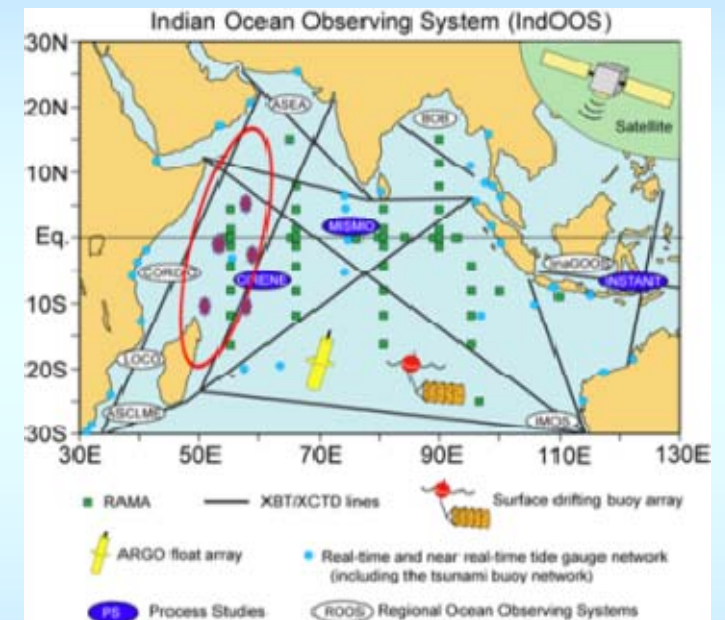
NCEP Climate Forecast System (CFS) Discussions

WIO-3 Resolutions Mombasa Kenya – April 2012

Continuation as WIO-4 Actions

- Establish A Western Indian Ocean Science Alliance 😊
- VOS/SOOP/DBCP Pilot Project 😊
- In-region Glider Capability 😊
- Drifting weather buoys deployed as a Pilot Project 😊
- Kenya PR Dr. Mukabana presented Piracy issues to the attention of the recent African Ministers Conference on Meteorology (AMCOMET-II) 😊
- Implement Proposed Moored Buoys ❌

Proposed moored buoys



Western Indian Ocean Wave Glider Six Month Pilot Project



Owned and maintained by US Naval Oceanographic Office

Currently located at 5.42 N 55.65 E



Wave Glider Mission Objectives

- Test endurance of glider in Indian Ocean
- Collect Meteorological data near the Somali Jet
- Make data available to the scientific community in this Data Sparse Region



Data Access Available through NDBC Main Page

www.ndbc.noaa.gov/station_page.php?station=97001

Station NDBC2 - NDBC Glider #2

Owned and maintained by National Data Buoy Center
27.500 N 84.500 W (27°30'0" N 84°30'0" W)

Click [here](#) to see latest positions.

Tsunami data from this location is available at [42429](#)

[Important Notice to Mariners](#)

[Search And Rescue \(SAR\) Data](#)

[Meteorological Observations from Nearby Stations and Ships](#)

Conditions at NDBC2 as of
(1:50 pm EDT)
1750 GMT on 04/11/2013:

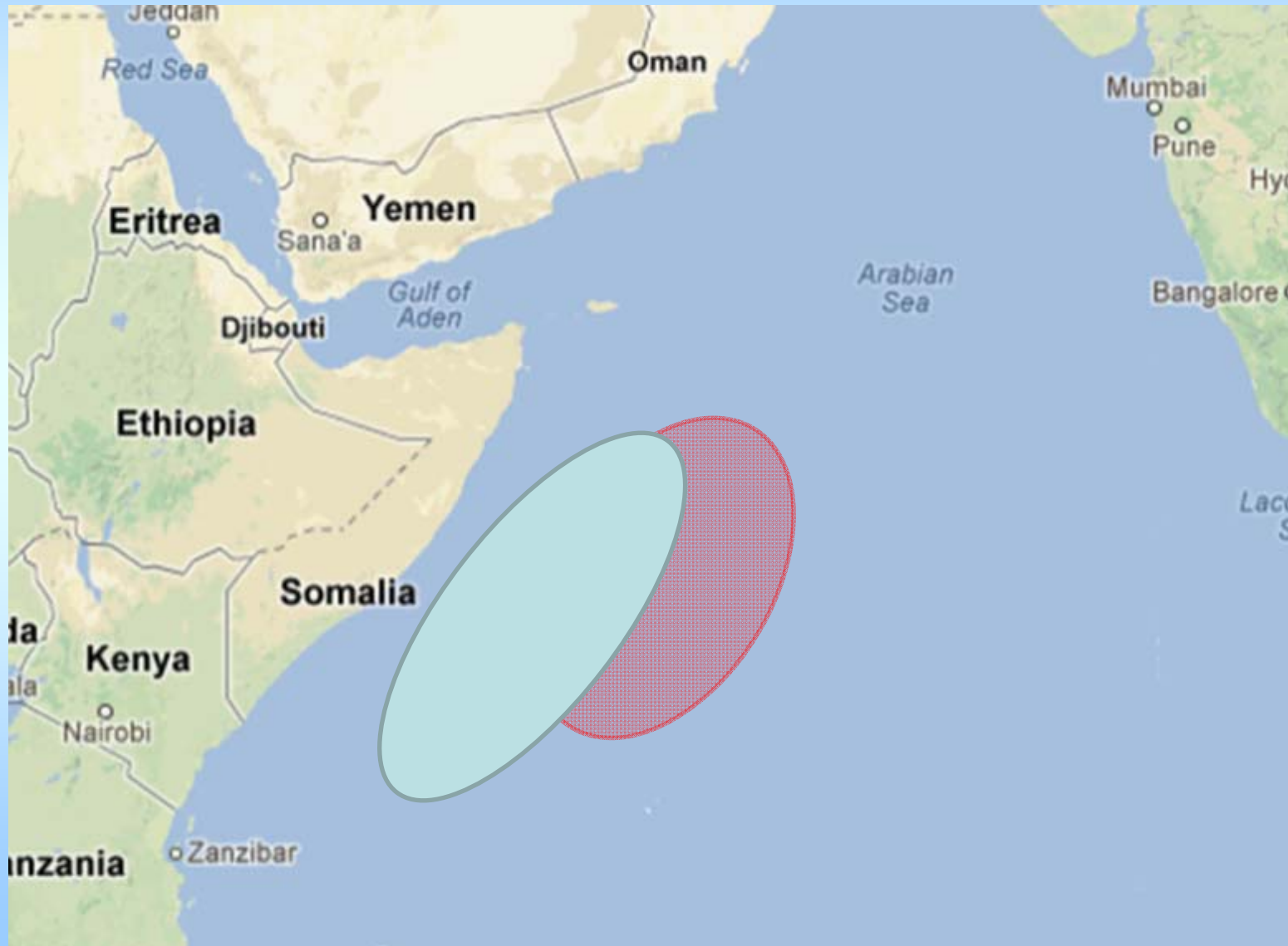
Unit of Measure: Time Zone:

Click on the graph icon in the table below to see a time series plot of the last five days of that observation.

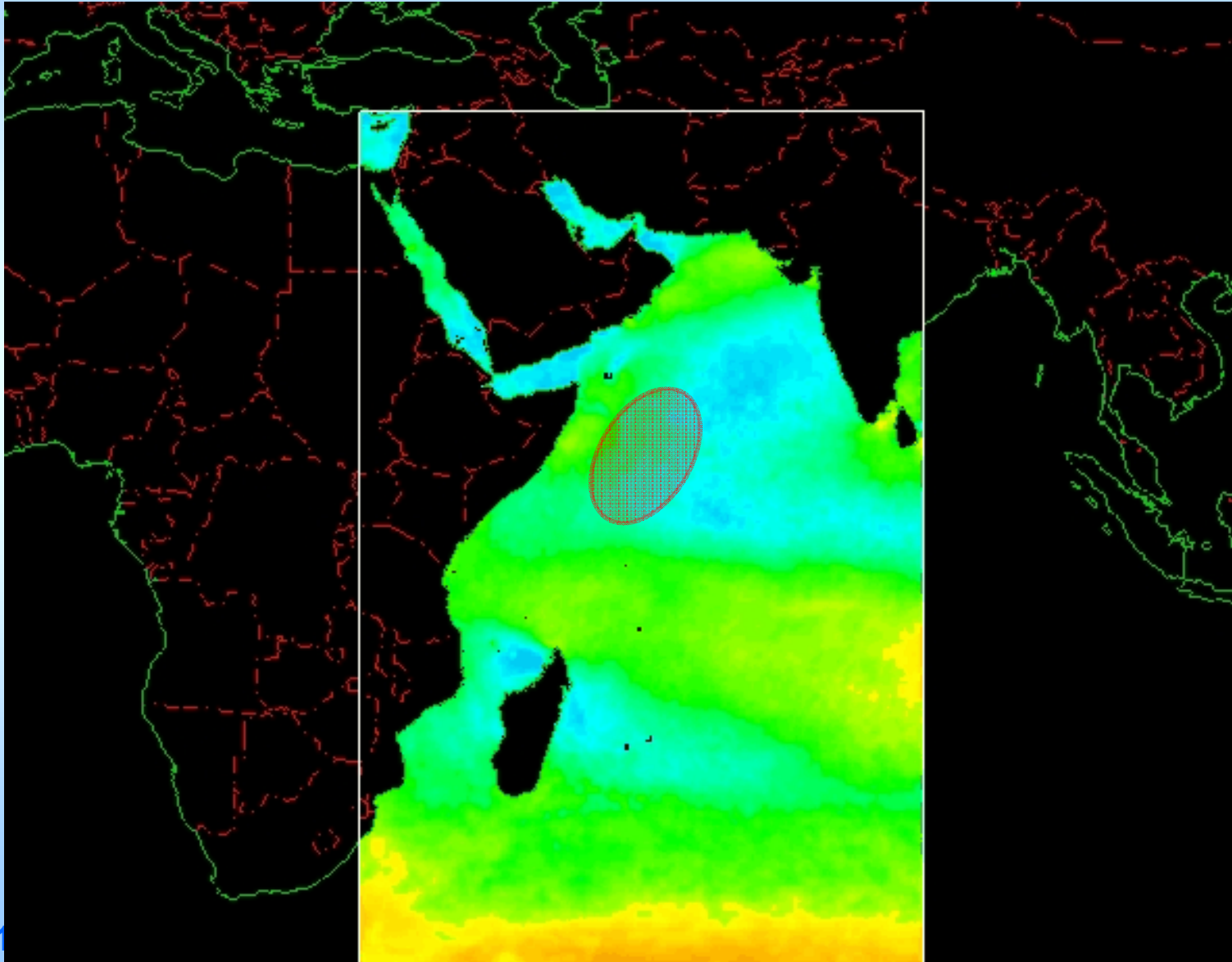
	Wind Direction (WDIR):	SE (140 deg true)
	Wind Speed (WSPD):	15.5 kts
	Wind Gust (GST):	19.4 kts
	Atmospheric Pressure (PRES):	30.06 in
	Air Temperature (ATMP):	53.6 °F
	Wind Chill (CHILL):	48.7 °F
	Wind Speed at 10 meters (WSPD10M):	19.4 kts
	Wind Speed at 20 meters (WSPD20M):	21.4 kts
	Combined plot of Wind Speed, Gust, and Air Pressure	



Area of Operations

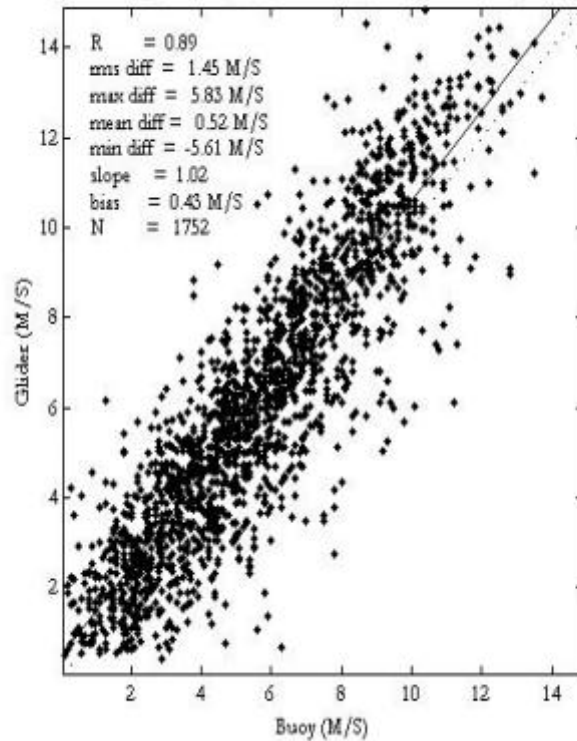


Somali Jet 2011

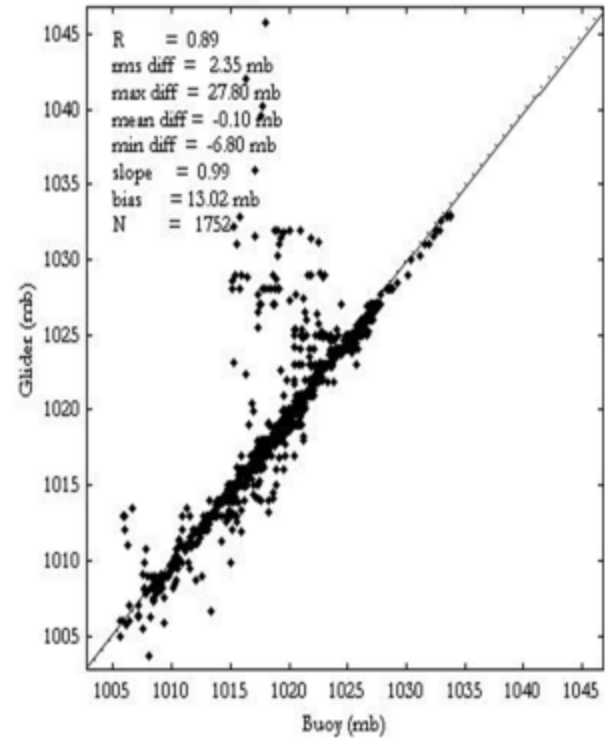


Data Quality

Wind Speed Comparison (adjusted 21%) Glider vs Buoy 10/07-12/29



Barometer Comparison Glider vs Buoy 10/07-12/29



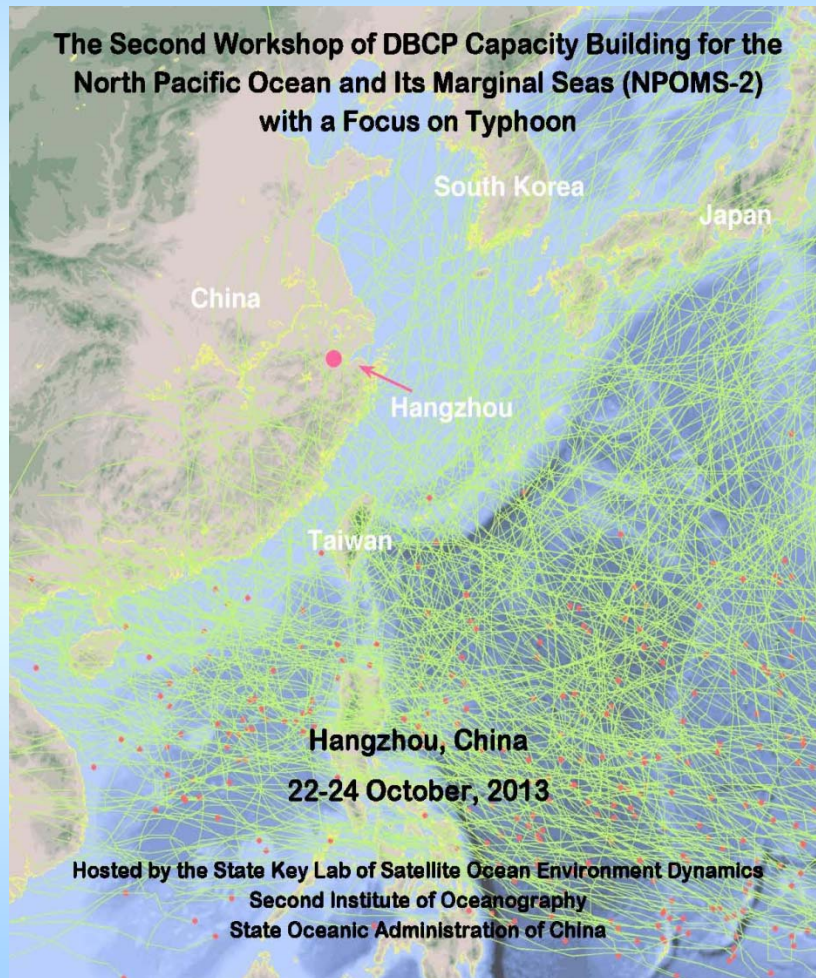
Belgium R/V Transfer to Kenya



- On the 3rd of May, 2013, the handover of the RV *Zeeleeuw* to the Republic of Kenya,
- Under the Kenyan flag, the R/V will be named RV *Mtafiti*, Swahili for 'researcher',
- The Ship is 62m Long,
- In Kenya the ship will continue to serve marine research and will be managed by the Kenya Marine and Fisheries Research Institute (KMFRI),
- The donation of the vessel fell within a new collaboration between Flanders Marine Institute (VLIZ) and KMFRI.

DBCP NPOMS-2 Application of Regional Ocean Observations for Increasing Society's Understanding and Forecasting of Typhoons

22-24 October 2013 in Hangzhou China



- Review recent, on-going and planned regional programs on typhoon and its interaction with the ocean,
- Discuss new advances in our understanding of the processes and mechanisms of typhoon-ocean interaction,
- Explore the possibility of regional collaboration to improve typhoon observation and prediction,
- Demonstrate the crucial role of ocean observations in the Western Pacific, such as for understanding and predicting regional cyclogenesis,
- www.jcomm.info/NPOMS-2

All Colleagues Are Most Welcome!

5th Meeting of the DBCP Task Team on Capacity Building (TT-CB)

Tuesday 24 September 2013

0900-1030

Salle XII

1. Highlights & Lessons Learned of 2013 TT-CB Capacity Building Workshops

A. Zanzibar, [WIO-4](#)

B. Chennai, [Asia-1](#)

C. Hangzhou, [NPOMS-2](#)

2. Begin preliminary planning discussions for NPOMS-3 and WIO-5 in 2014

3. Explore how advances in Information & Communications Technology (ICT) may be used to facilitate and broadcast future TT-CB In-Region Capacity Building and Training Workshops to a broader audience around the world



THANK YOU



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