

# EARTH OBSERVATIONS for the WORLD'S PEOPLE



Vice Admiral Conrad C. Lautenbacher, Jr., Ph.D., U.S. Navy (Ret.)

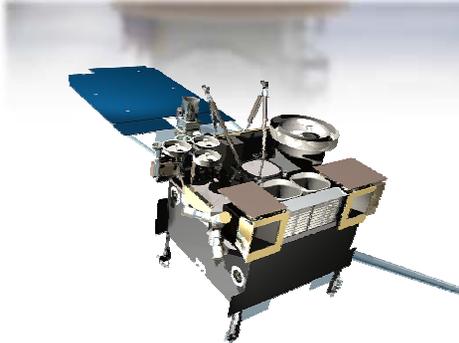
Under Secretary of Commerce for Oceans and Atmosphere

Administrator, National Oceanic and Atmospheric Administration | NOAA

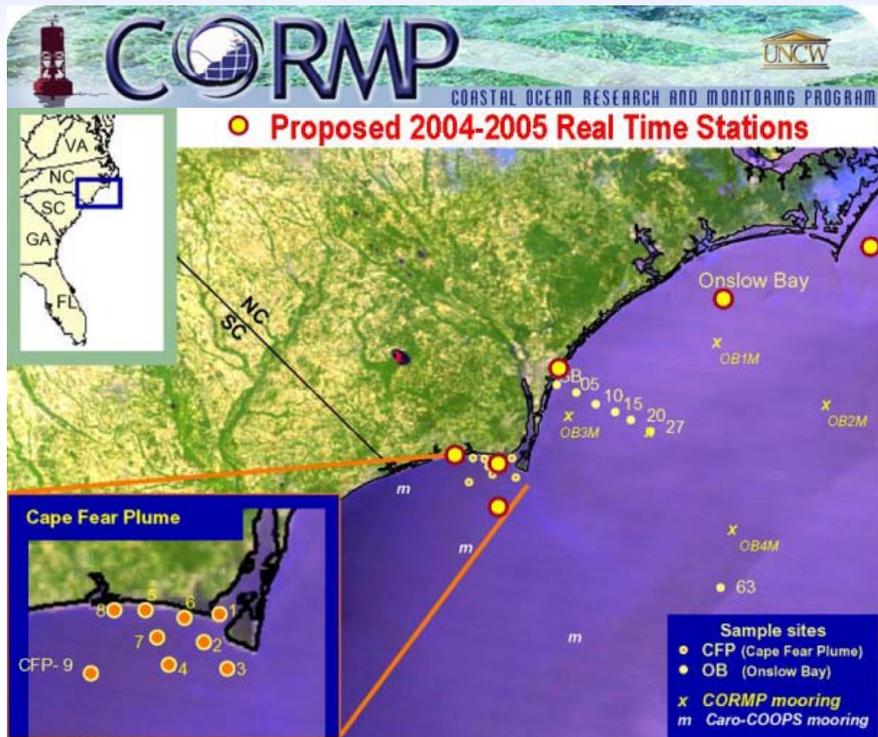
June 19, 2007 | 24<sup>th</sup> IOC Assembly



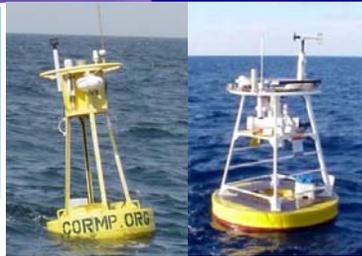
# Developing a Strong Observing & Communication Infrastructure



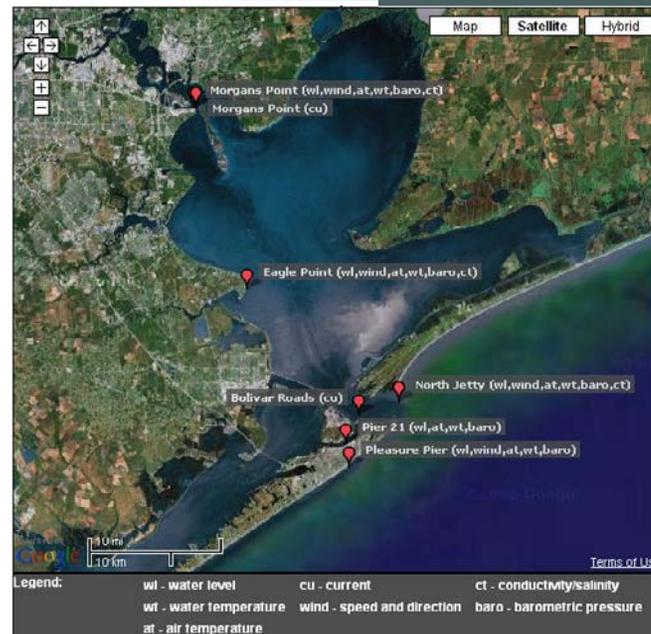
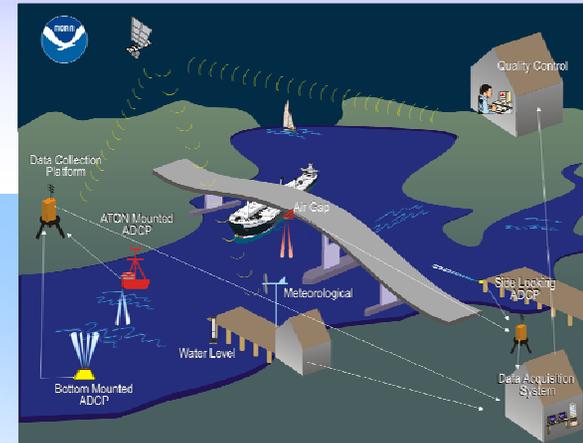
# Innovative Observing Platforms Integrated



**CORMP**  
Coastal Ocean Research  
And Monitoring Program



**PORTS®**  
Physical  
Oceanographic  
Real Time System



**PORTS®**  
Houston/  
Galveston  
Satellite  
Overview

Benefits from  
data = \$15.6M

# Economic Impacts of Drought

## North American Drought Monitor

March 2004

<http://www.ncdc.noaa.gov/nadm.html>

Released: Friday, April 23, 2004

Analysts:

Canada - Ted O'Brien  
Dwayne Chobanik  
Mexico - Miguel Cortez  
U.S.A. - Brad Rippey  
David Miskus\*

(\* Responsible for assembling the NA-DM map and text)

Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- Delineates dominant impacts
- A = Agricultural (crops, pastures, grasslands)
- H = Hydrological (water)
- (No type = Both impacts)



USDA



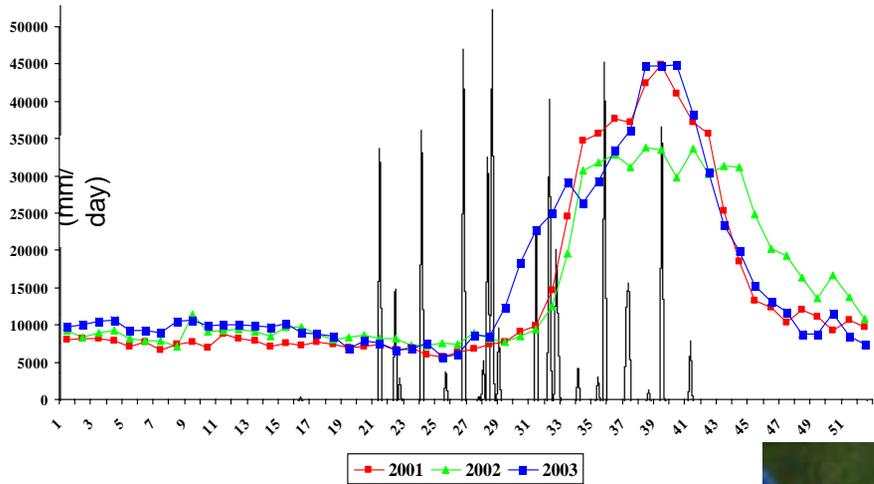
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text for a general summary.



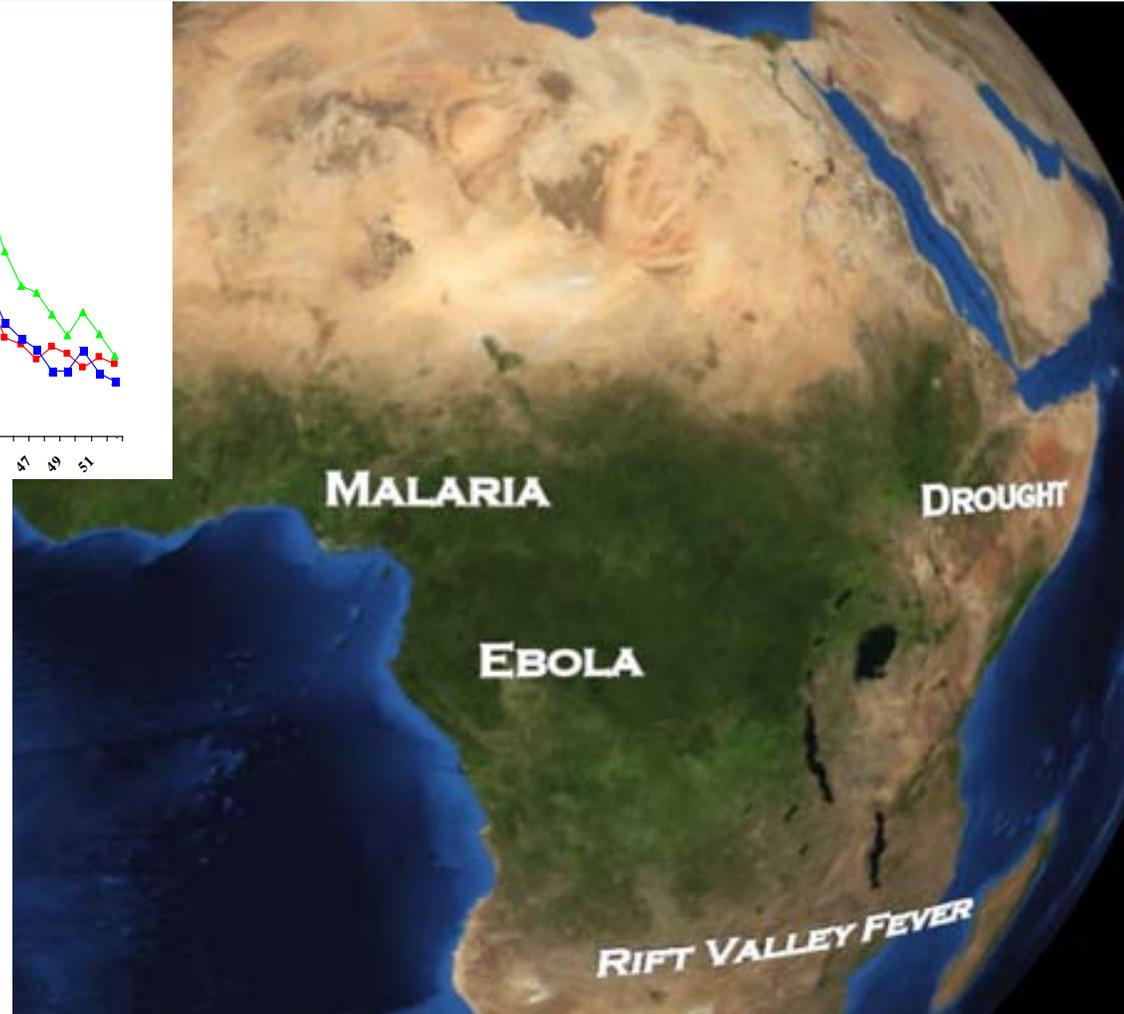
**Experimental**

# Mitigating Health Concerns

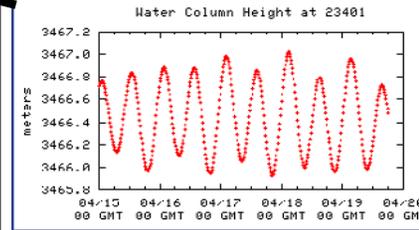
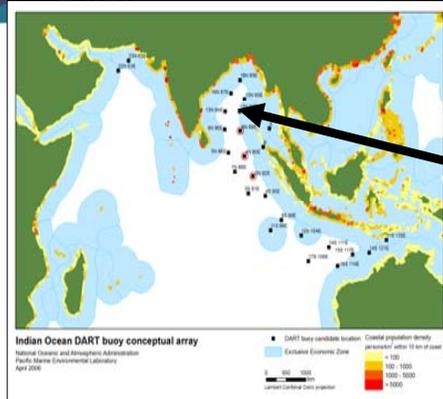
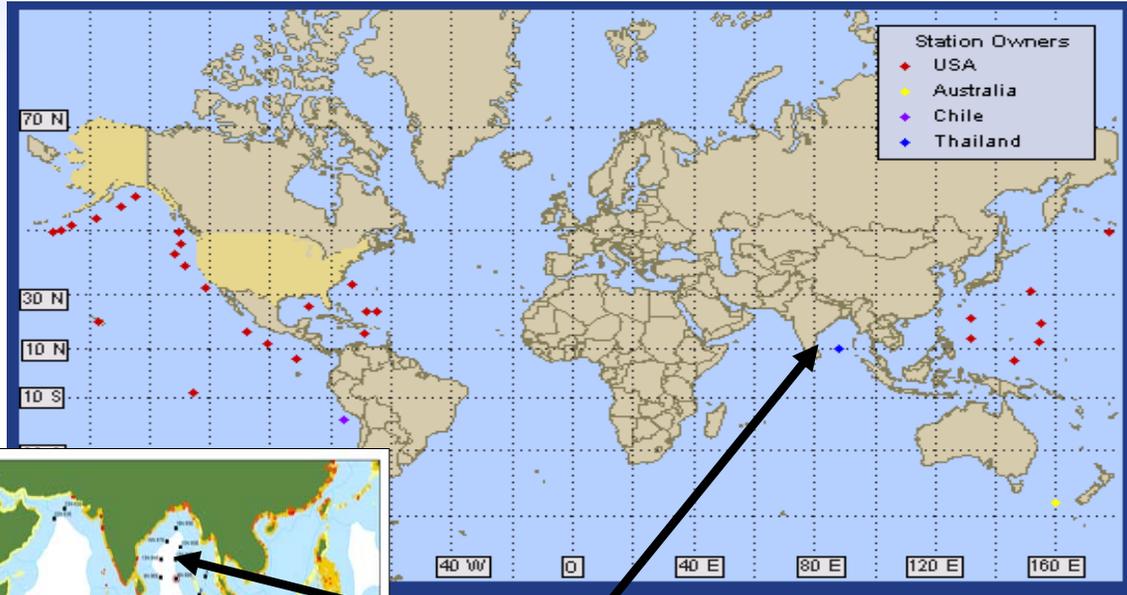
## Africa Regional Health Benefits



**Rainfall and Malaria**  
**Weekly Cases in Niger from 2001 to 2003**



# Deep-ocean Assessment & Reporting of Tsunami



Global DART Operational Network April 2007

Indian Ocean DART Conceptual Design 2005



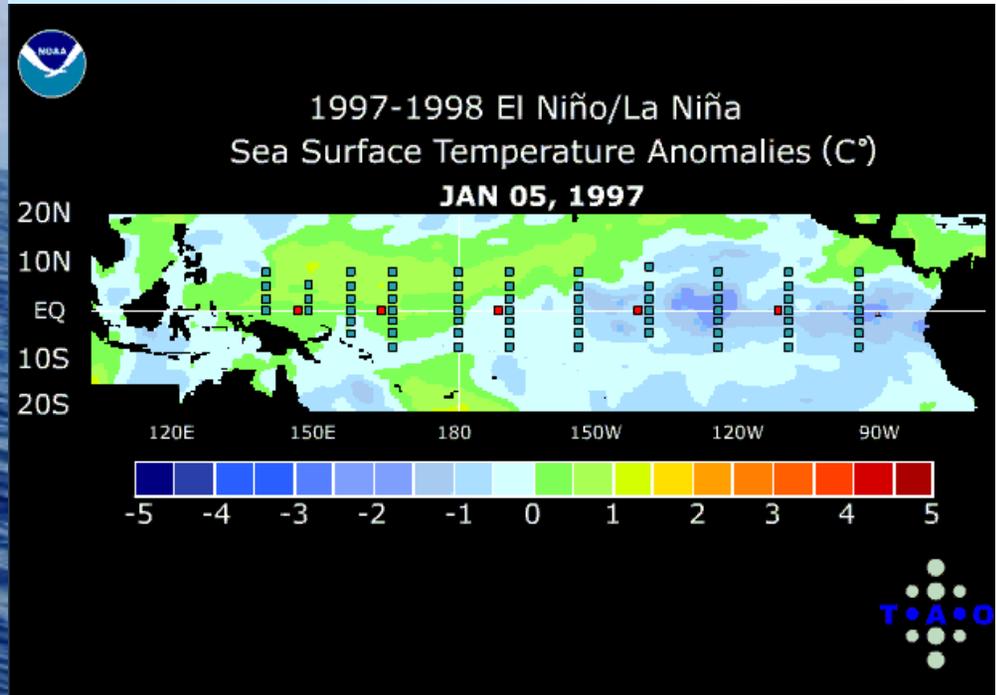


# Operations and Sustainability of Systems Through Partnerships

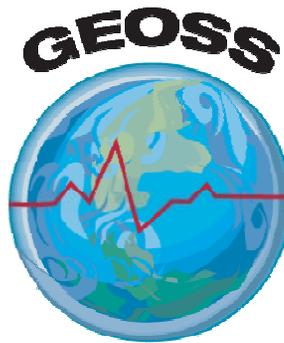


Atlas/TAO Buoy Maintenance

## TAO/Triton System (Tropical Atmosphere Ocean Project)



# Cooperation Crucial to An Operational GEOSS



**TAKING THE PULSE  
OF THE PLANET**



# Contributing to the Global Mission

## GEO provides opportunity!

