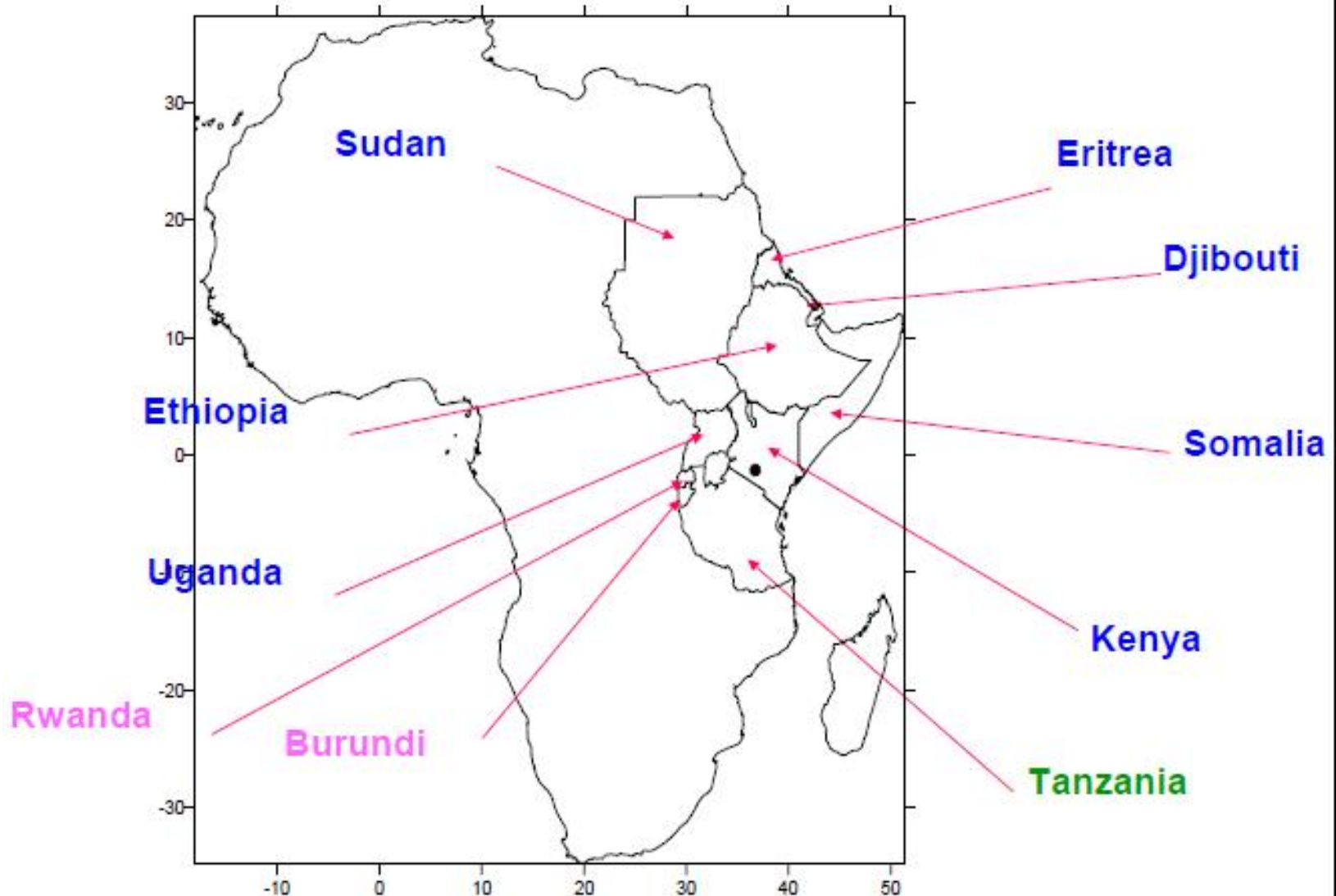


ACTIVITIES OF THE IGAD CLIMATE PREDICTION AND APPLICATIONS CENTRE (ICPAC) IN THE GREAT HORN OF AFRICA REGION (GHA)



**ICPAC Presentation at the Achieving Benefits of Enhanced
Service Delivery by National Meteorological Services in
Eastern and Southern Africa
21-25th February 2011, TANZANIA**

ICPAC PARTICIPATING COUNTRIES IN THE GHA



**ICPAC is a specialized Institution of the IGAD
It serves the TEN (10) Countries (7 from IGAD plus Tanzania, Burundi and Rwanda**

ICPAC Mission:

- **Regional climate monitoring, modeling, prediction, and early warning in partnerships with NMHSs**
- **Support sector specific applications to reduce risks associated with climate variability and change for poverty alleviation, environmental management and sustainable development**

ICPAC PRODUCTS AND SERVICES

- **DATA MANAGEMENT FOR DEVELOPMENT**

 - **Regional climatological statistics:
Climate of the past patterns**

- **Early warning**

- **Seasonal climate outlook (RCOF)**

 - **Capacity building**

- **10 Day, monthly and seasonal updates**

- **Applications**

- **Research for development: new**

 - **Knowledge development,
management and sharing**

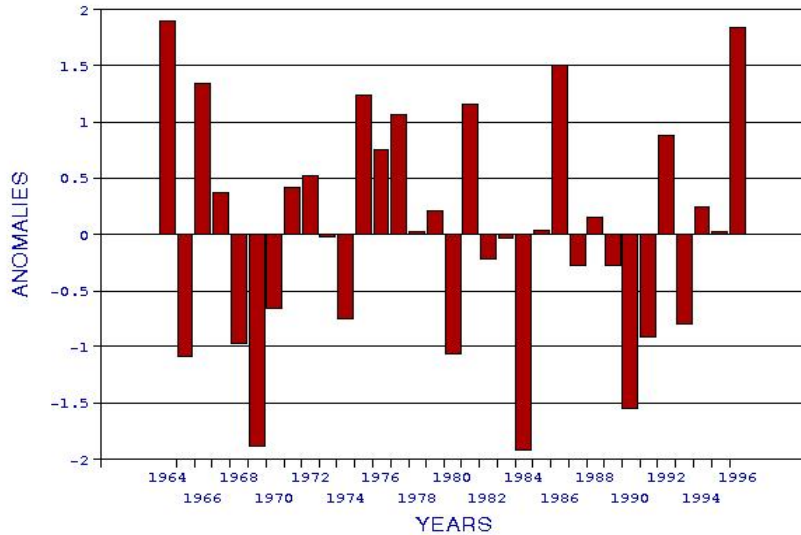
DATA MANAGEMENT FOR DEVELOPMENT

- **Development of regional data base for mapping climate for various applications**
- **Digitization of regional data**
- **Satellite data : Hosting AMESD**

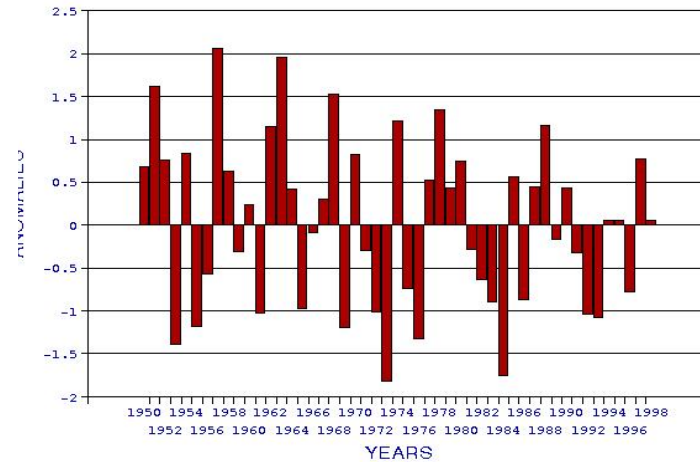
YEAR TO YEAR RAINFALL VARIABILITY

FOR Different Locations and seasons: E.Africa

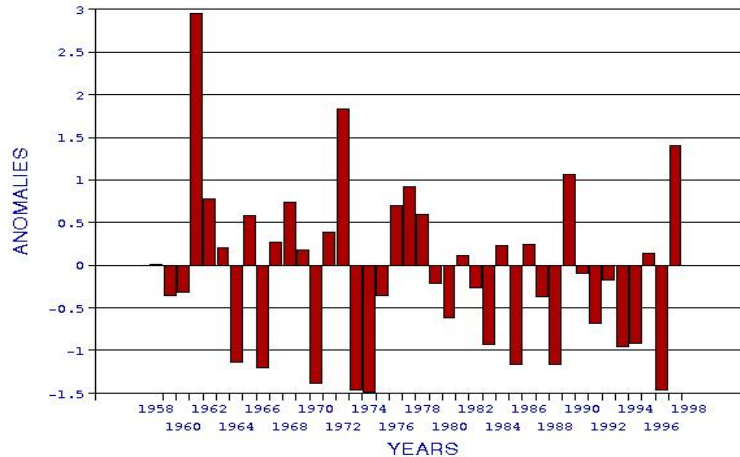
STATION : NAKURU
SEASON: JJA



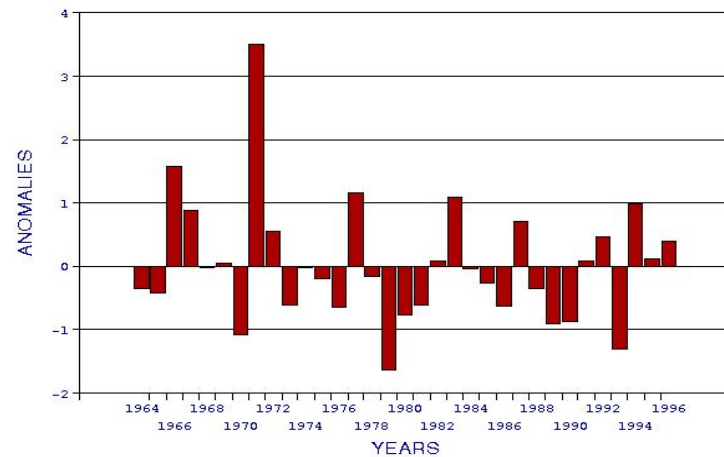
STATION : NAROK
SEASON: MAM



STATION : KAKAMEGA
SEASON: DJF



STATION : KISII
SEASON: SON

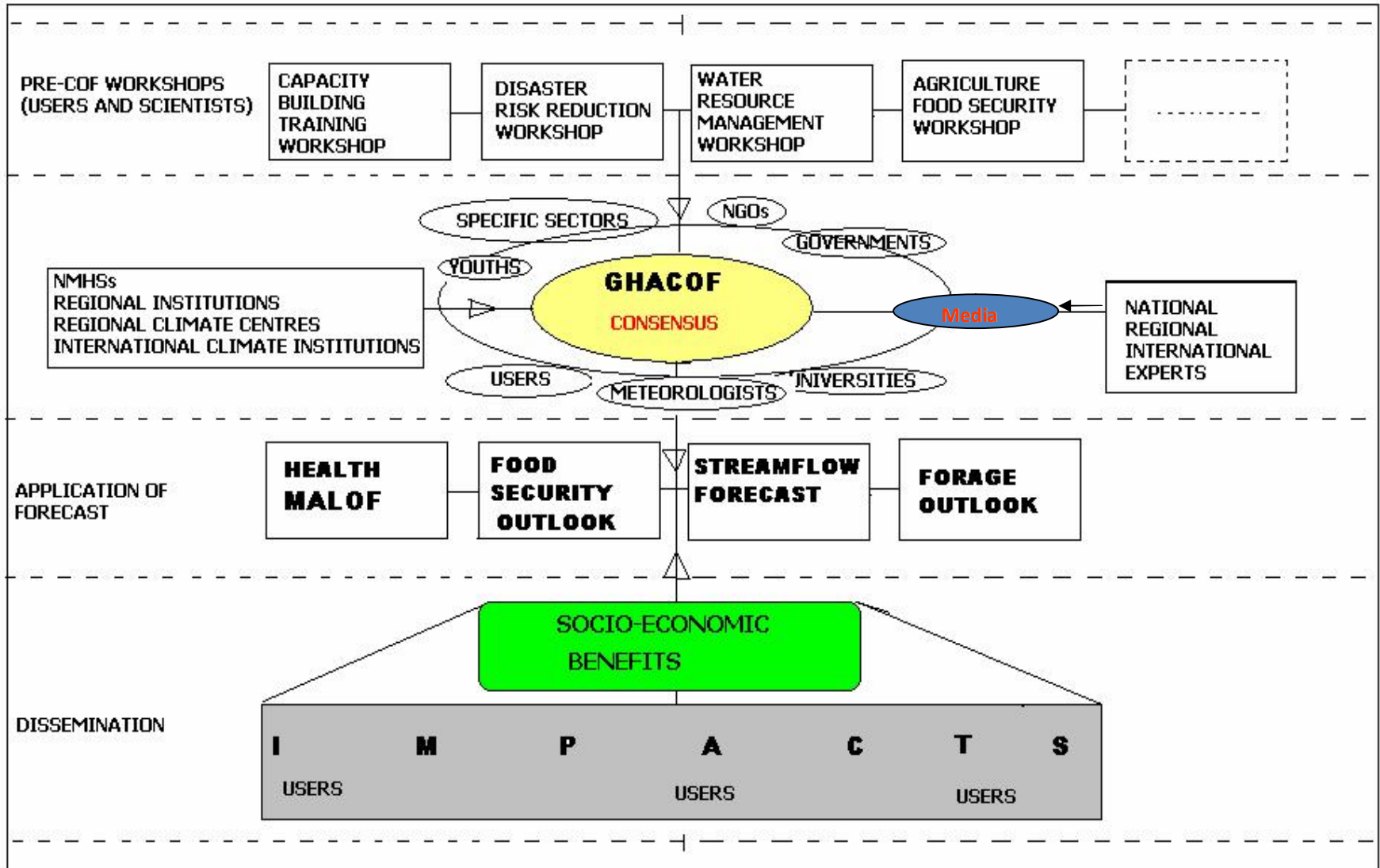


REGIONAL CLIMATE OUTLOOK (RCOF)

- Consensus forecast development with WMO framework**
- ICPAC has the highest experience in the whole world (Seasons: MAM, and OND, JJAS New through ClimDev funding)**
- 26 cases released, 28th Feb - 4 March , Arusha Tanzania, all are welcome**
- ICPAC as a WMO (RCC)**

- Pre- GHACOF Components
 - Capacity building and training workshops
 - User workshops
 - Pilot applications

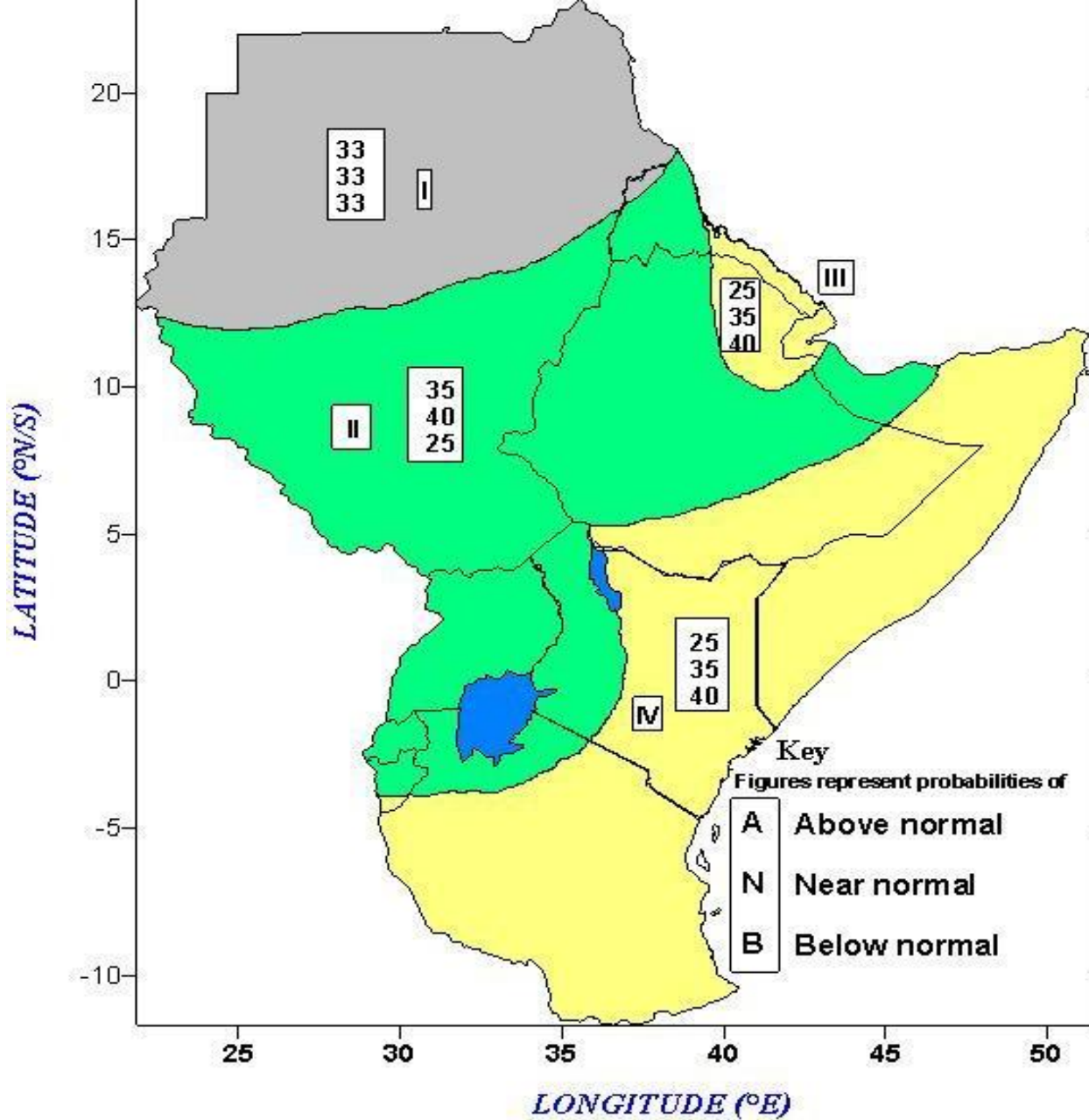
Generation of tailored products during PRECOF Capacity Building Training and COF Forum



Capacity building and training workshops



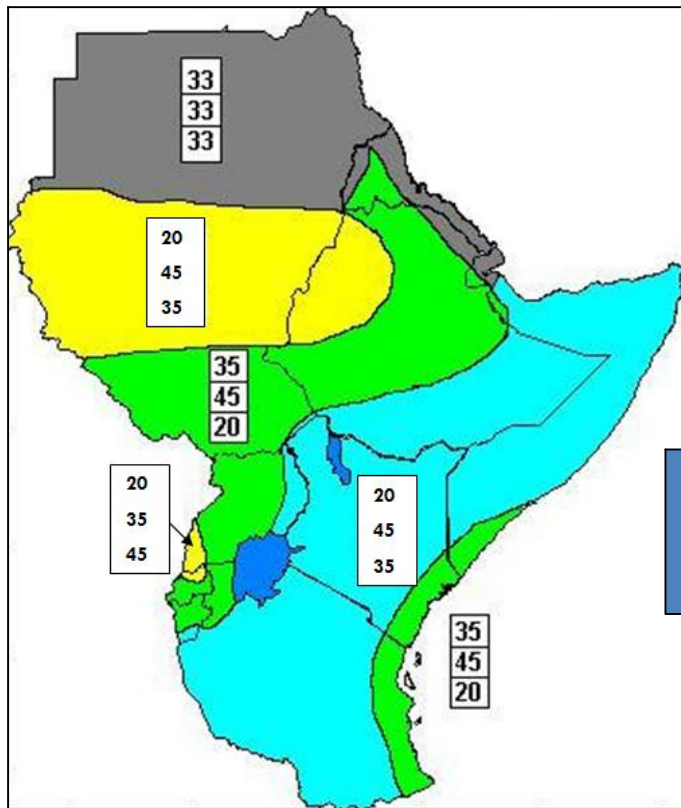
Capacity Building Training workshop 1 . 2001



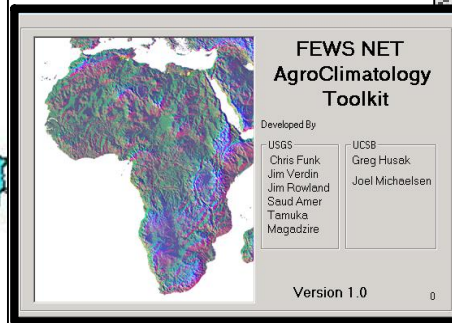
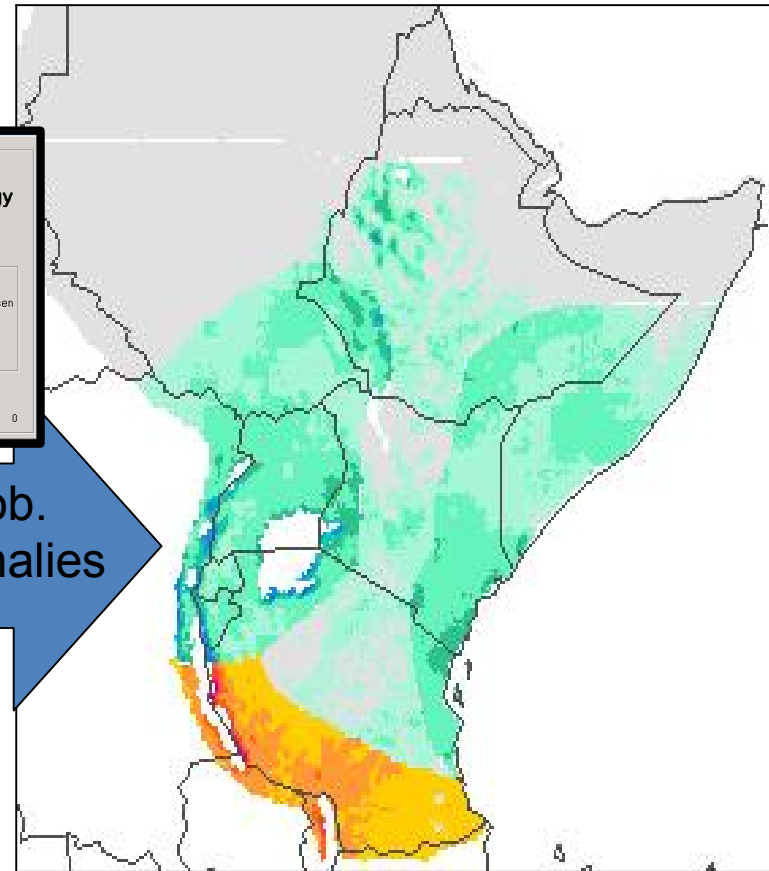
Horn of Africa Consensus Climate Outlook for the September to December 2010

APPLICATIONS: Food Security

2009 FORECAST



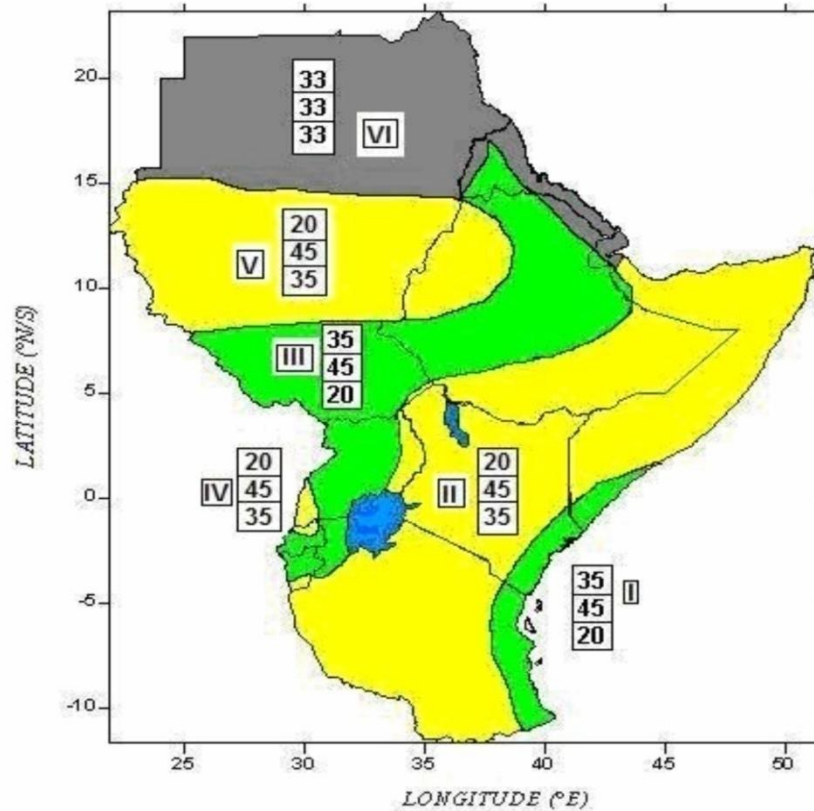
Most-likely scenario



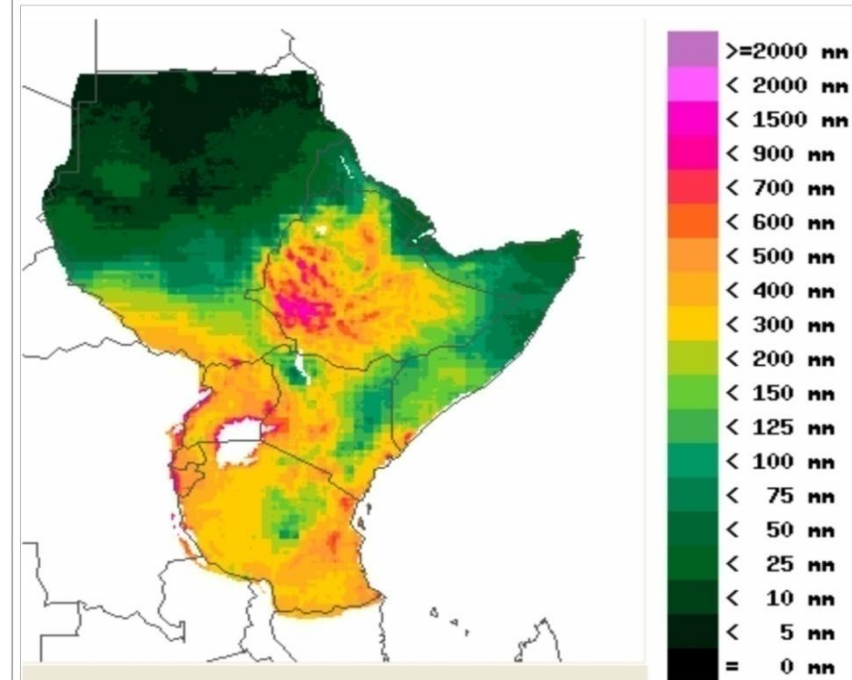
Translating prob.
into rainfall anomalies

DOWNSCALING OF CLIMATE INFORMATION FOR PLANNING AND MANAGEMENT OF WATER RESOURCES IN THE GHA REGION

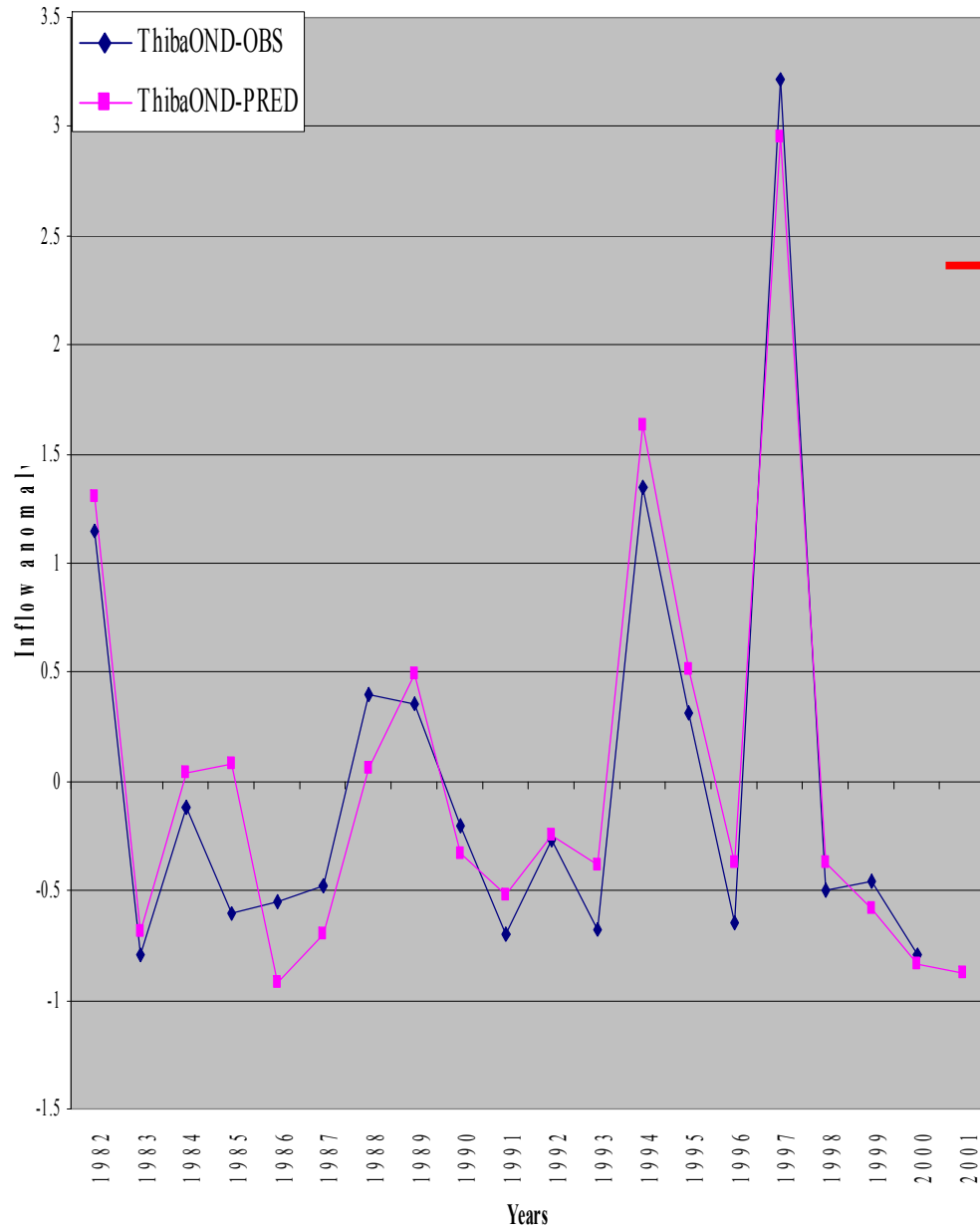
Greater Horn of Africa Consensus Climate Outlook for the Period March to May 2007



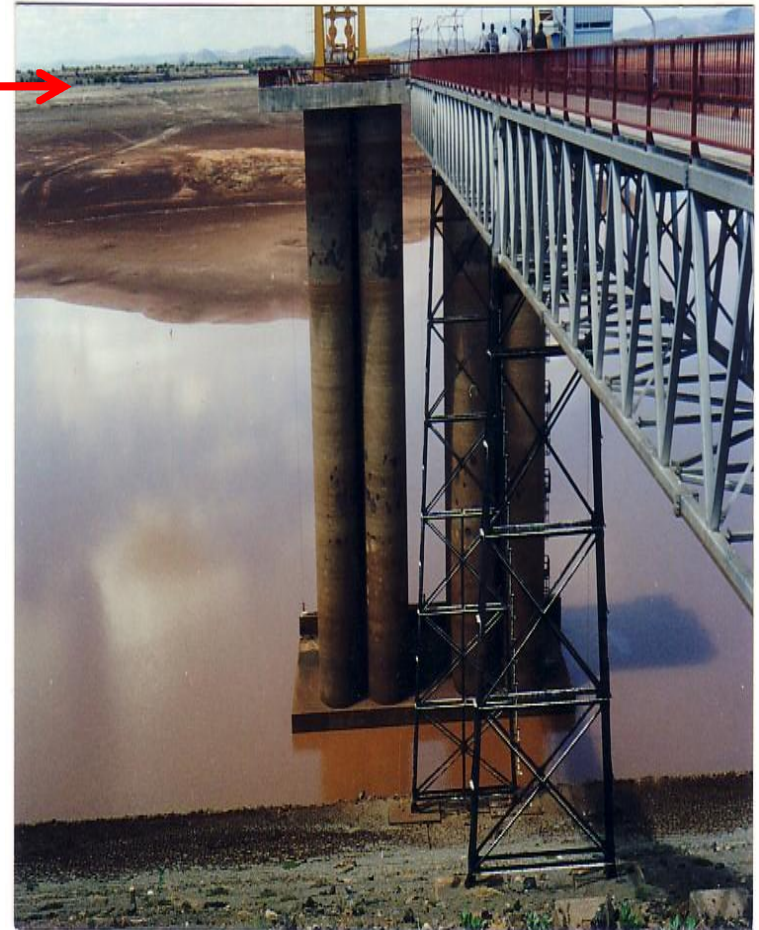
RAINFALL QUANTITIES FOR MAM 2007 BASED ON THE CLIMATE OUTLOOK INFORMATION



WATER AND HYDROMETEO

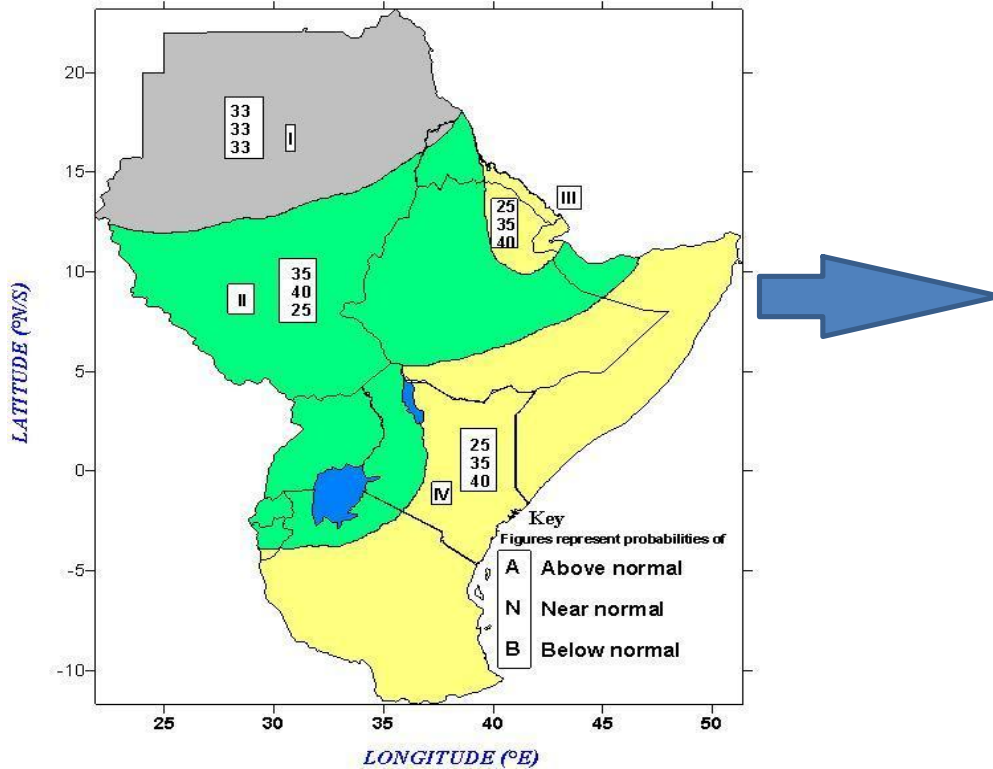


A View of Masinga Dam during the 1999/2000 La-Nina Drought

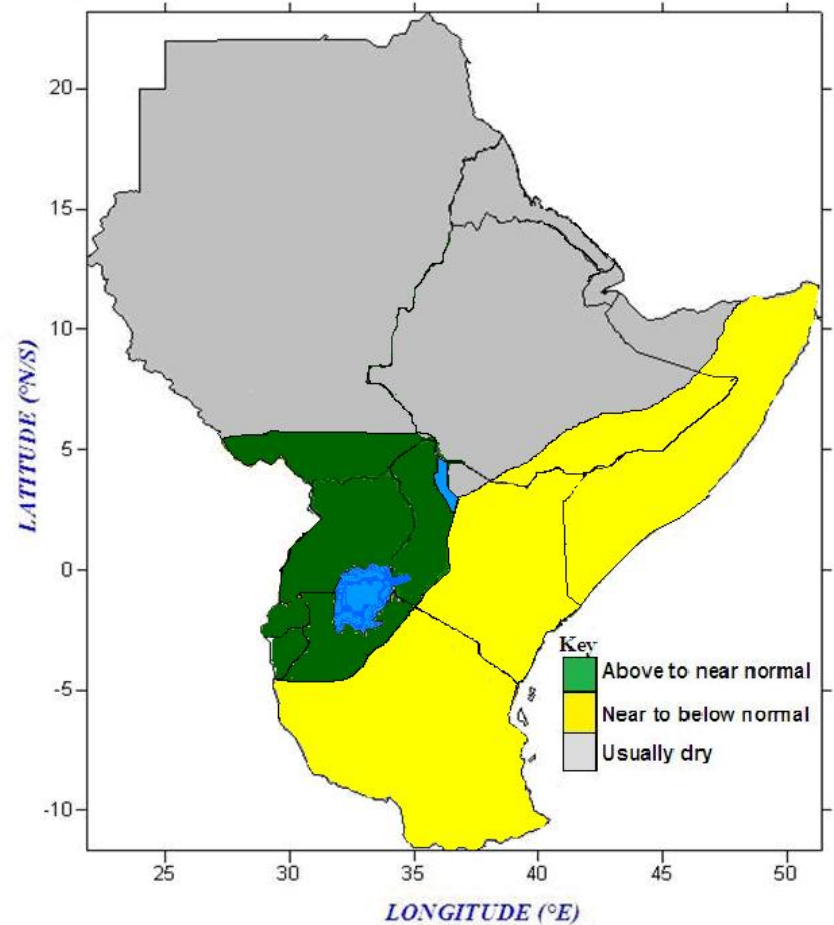


Updating COF seasonal outlook

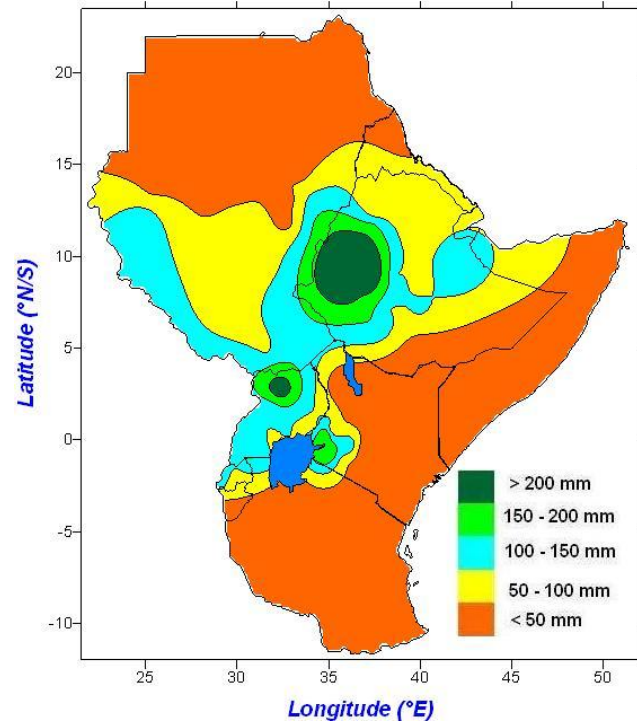
- Ten day bulletin
- Monthly bulletin
- Climate watch



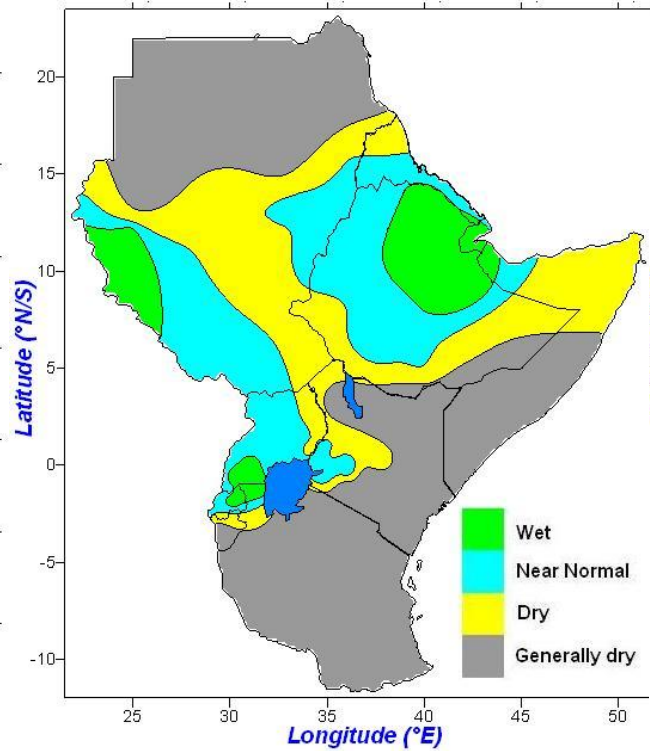
Horn of Africa Consensus Climate Outlook for the September to December 2010



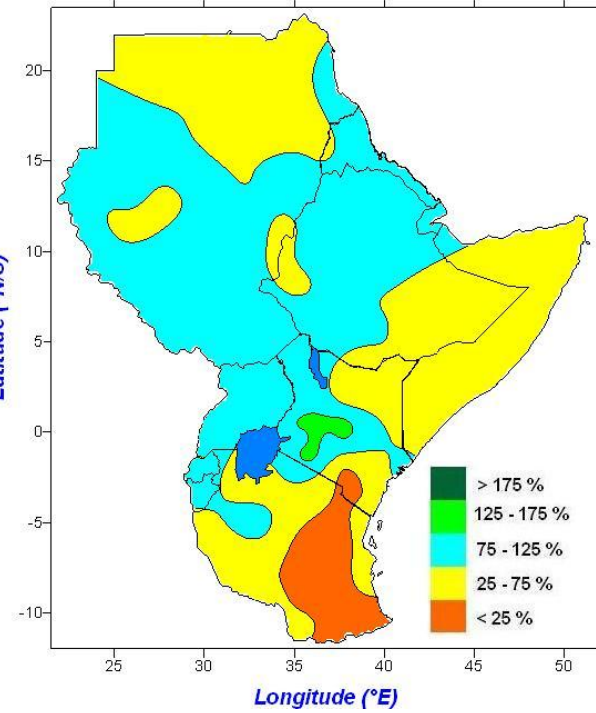
Horn of Africa Consensus Climate Outlook for the October to December 2010



Distribution of rainfall during September 2010

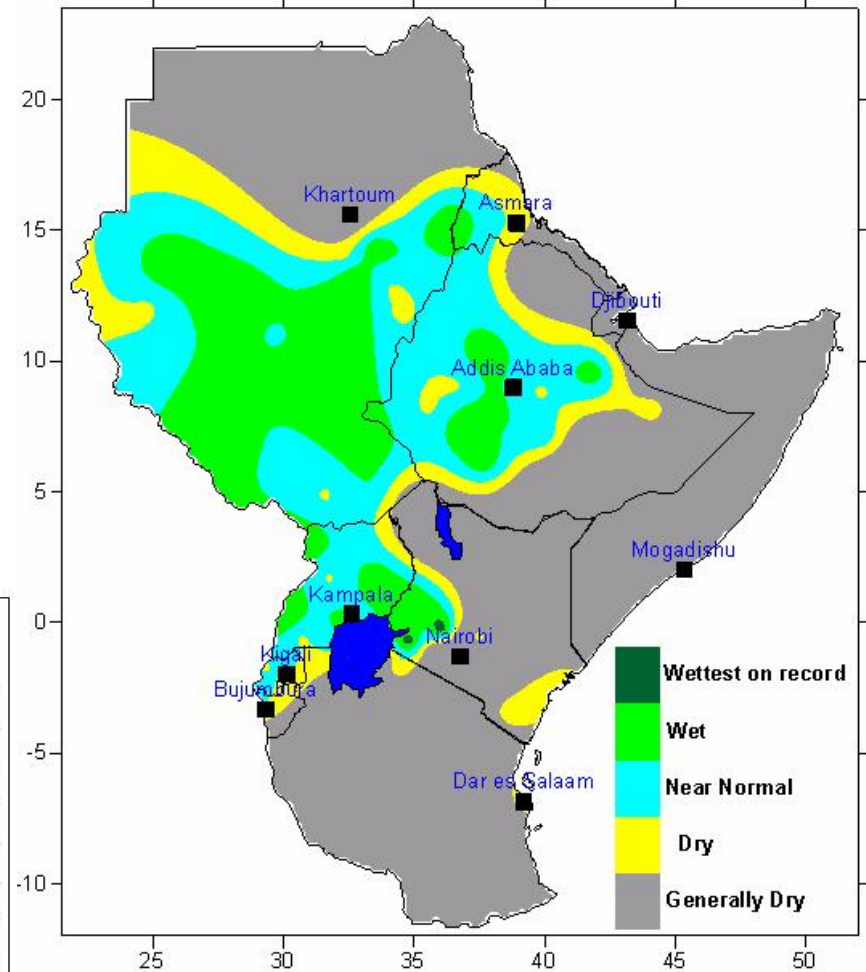
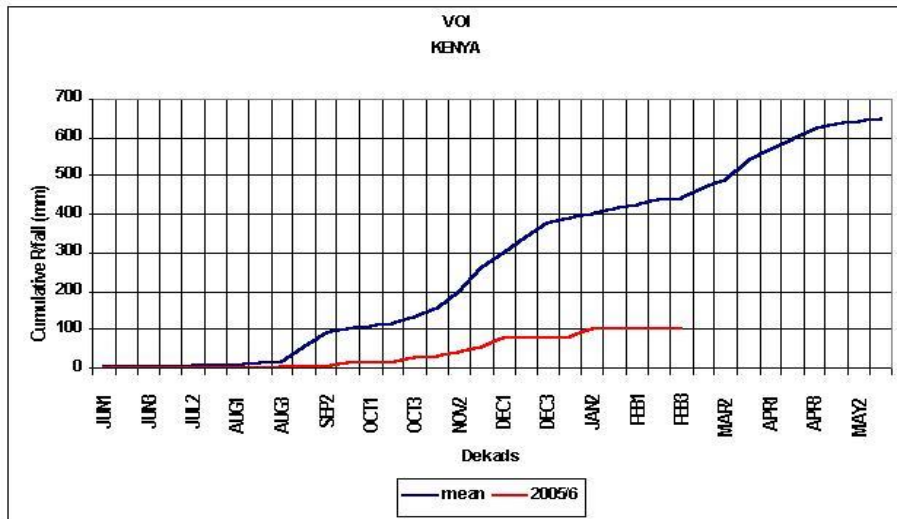
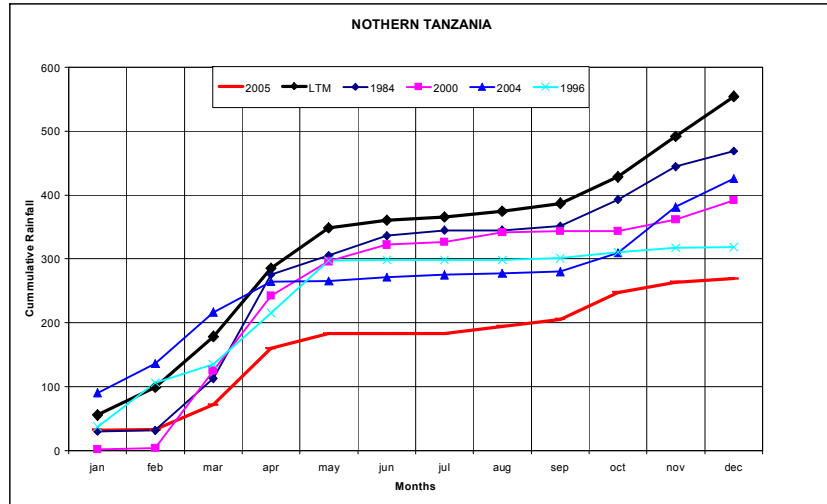


Rainfall severity index for September 2010



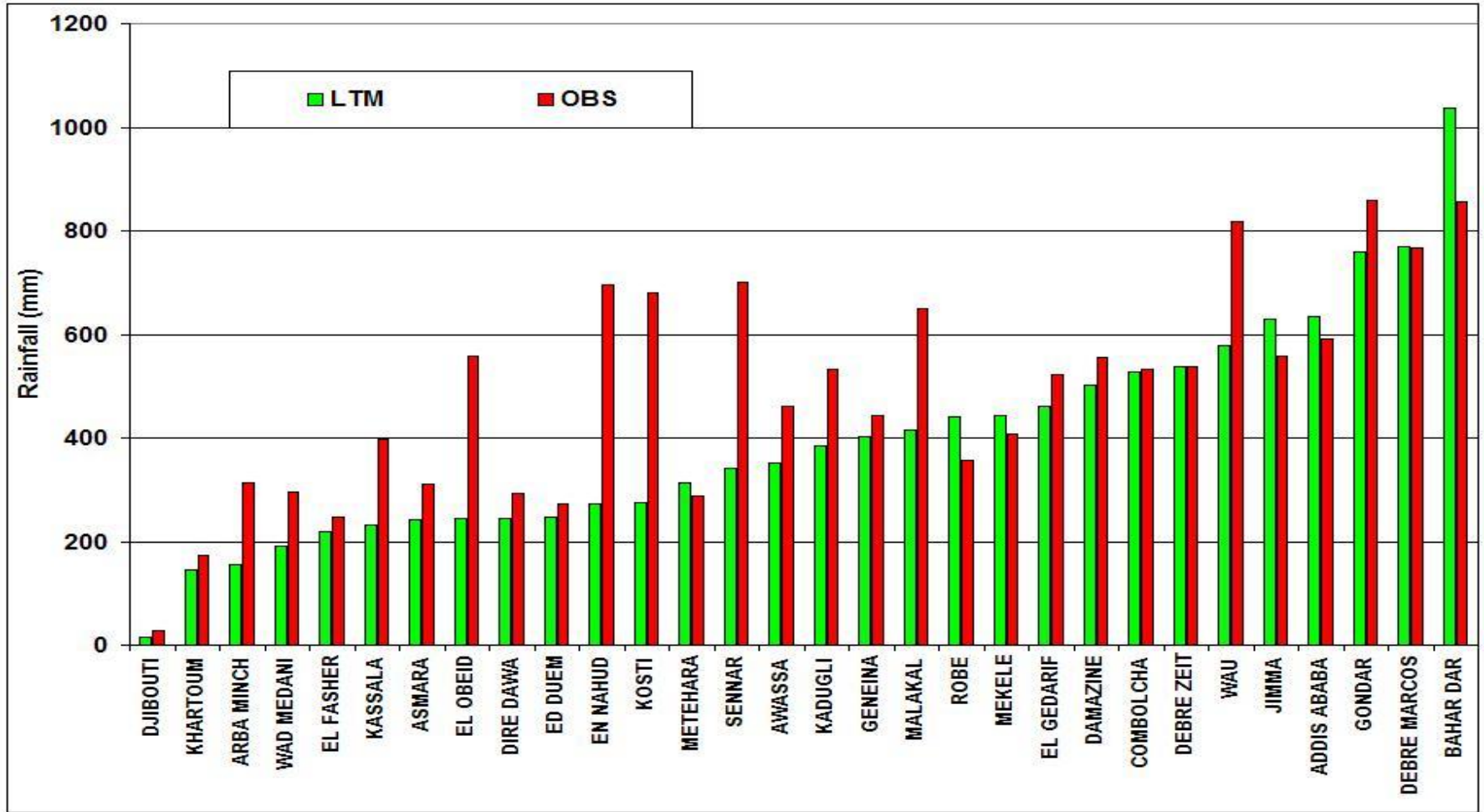
Rainfall anomalies for July to September 2010

10 Day, monthly and seasonal updates for monitoring REGIONAL STRESS MONITORING AND RISK/ VULNERABILITY ZONING AND MAPPING



Drought Severity Index for Dekad 26 (11-20 September) 2005

Seasonal RAINFALL PERFORMANCE



KNOWLEDGE DEVELOPMENT, MANAGEMENT AND SHARING

- Investment in Research through networking with universities , etc**
- IDRC Knowledge sharing EXPERT**
- Mentorship of young scientists**
- Projects including IK**

***THANK YOU AND WELCOME TO
COF27 IN ARUSHA NEXT WEEK***