Lessons from ICPAC's Regional Climate outlook forums (RCOFs) in Regional Networking and Consensus Building, and User Liaison for Targeted Climate service Delivery

L.A.OGALLO

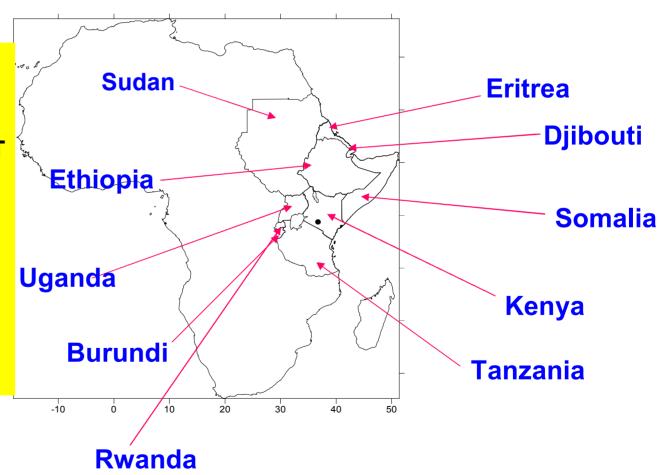
IGAD CLIMATE AND APPLICATIONS CENTRE (ICPAC)

www.icpac.net

ICPAC MEMBER COUNTRIES (SEVEN IGAD PLUS TANZANIA, RANDA AND BURUNDI) Established by NMHSs, UNDP and WMO IN 1988

CLIMATE TOOLS
and
APPLICATIONS
FOR DEVELOPMENT

OWNER
NMHSs and
ECONOMIC
GROUPS

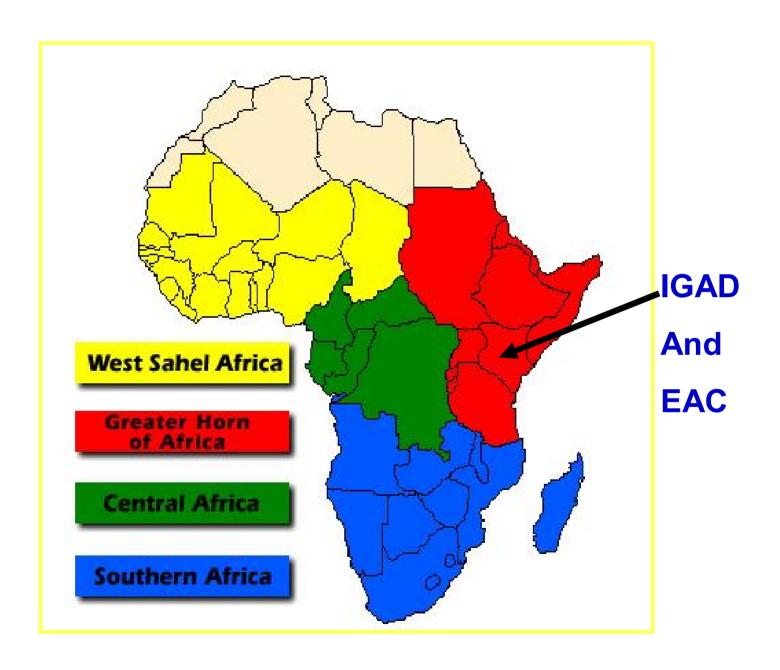


CURRENT 3 MAJOR AFRICAN CLIMATE CENTRES MAINSTREAM CLIMATE IN SUSTAINABLE DEVELOPMENT CPAC TRUITO ON AND ADDITIONS CRANING C 30 ACMAD CPAC NIAMEY **ACMAD** ICPAC, Nairobi, **ATLANTIC** -10 **OCEAN INDIAN OCEAN** -30

SADC - DMCH



SOCIO-ECONOMIC GROUPS IN AFRICA



CLIMATE SERVICES IN GREATER HORN OF AFRICA

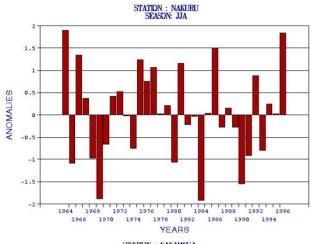
- WHY CLIMATE OUTLOOK FORUMS? NMHSs??
- WHY REGIONAL CENTRES?
- Increasing climate risks from 1970s
- Predictability signals from ENSO 1982/ 83 El Nino and 1984 La Nina

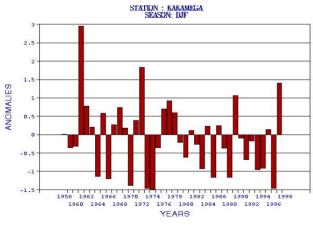
CLIMATE OUTLOOK FORUMS (COFs) Forum for Pre-season season climate outlook 1986-88 ENSO, a lot of lessons

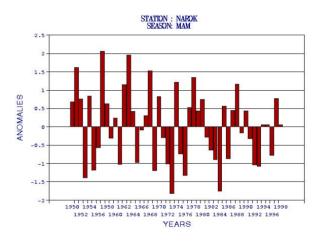
- Provide a forum for standardization and verification FORUM for seasonal climate outlook- users perspectives: WMO/CLIPS; NOAA, and USAID; IRI
- Provide the climate scientists from NMHSs, international and regional climate centres develop and release a single best regional seasonal climate outlook products for GHA- 1997/98 EL NINO and 1999 La Nina
- Minimize the confusion of the users with products from the individual centers

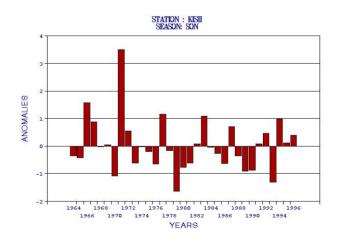
WHY REGIONAL CENTRES

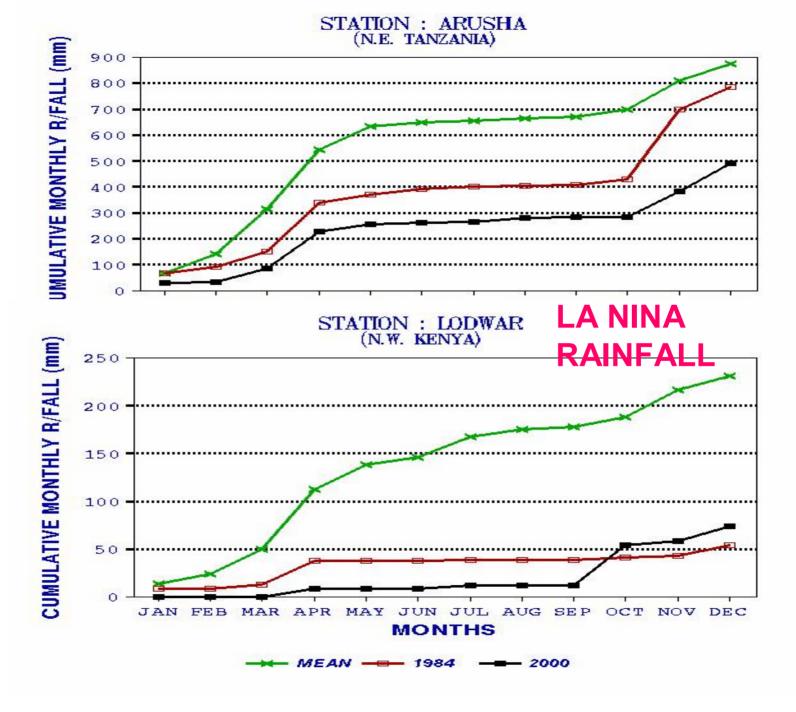
Climate variability: EL NIÑO











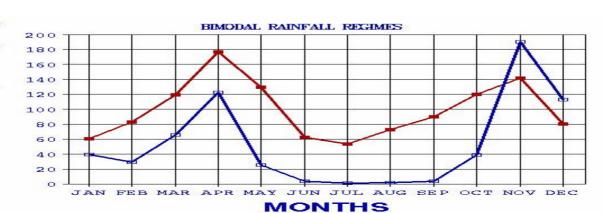
SEASONAL RAINFALL AND ENSO PHASES





- D. MARKOS(ETHIOPIA) - MBEYA (S. TANZANIA)

MEAN MONTHLY R/FALL (mm)

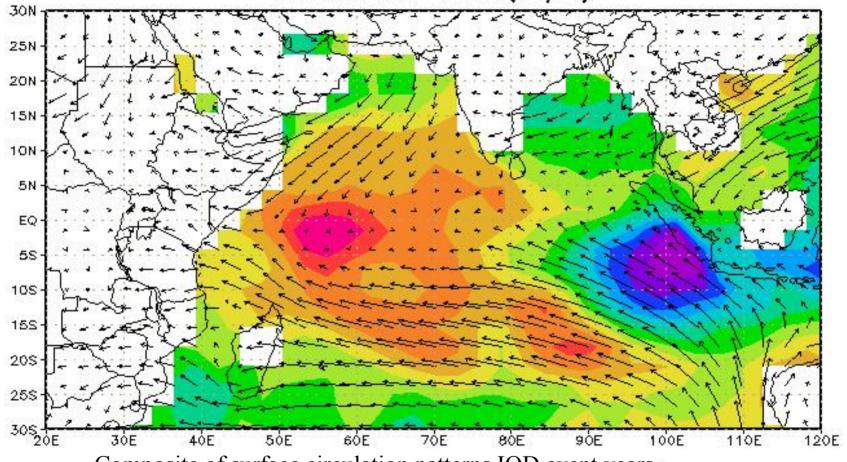


- JINJA (UGANDA) - MAKINDU (KENYA)

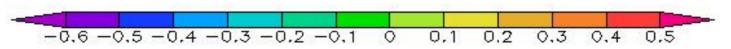
1986-1988 ENSO: RESEARCH AND CAPACITY BUILDING ACTIVITY with local Universities

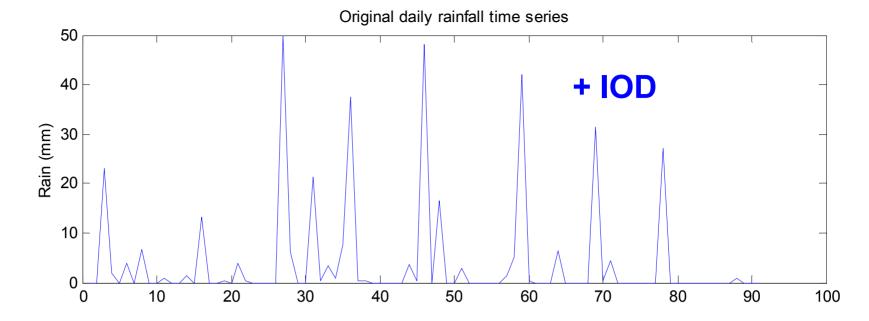


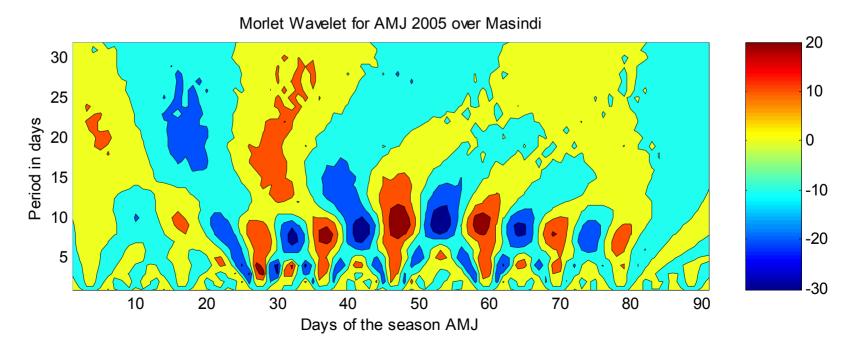
MEAN POSITIVE IOD SON SSTA(deg.C) OBSERVED WIND(m/s)



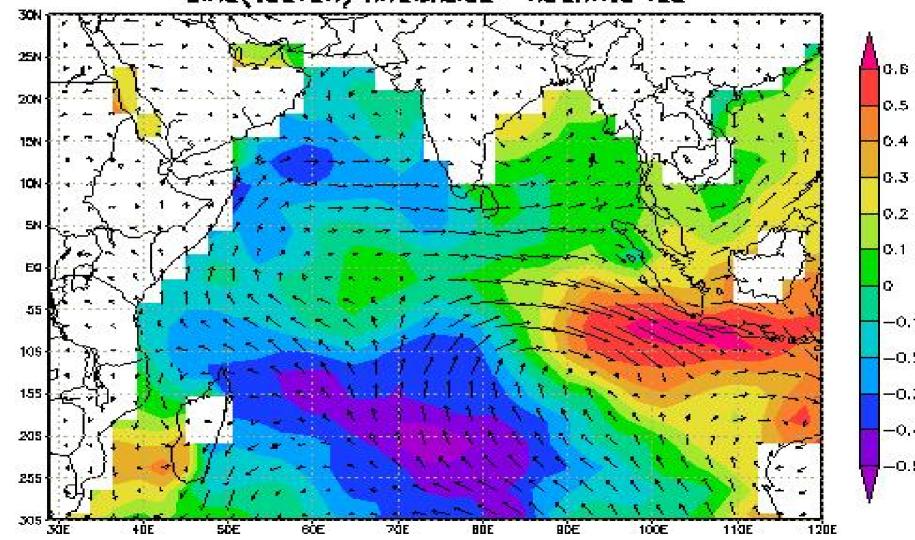
Composite of surface circulation patterns IOD event years for the SON season.

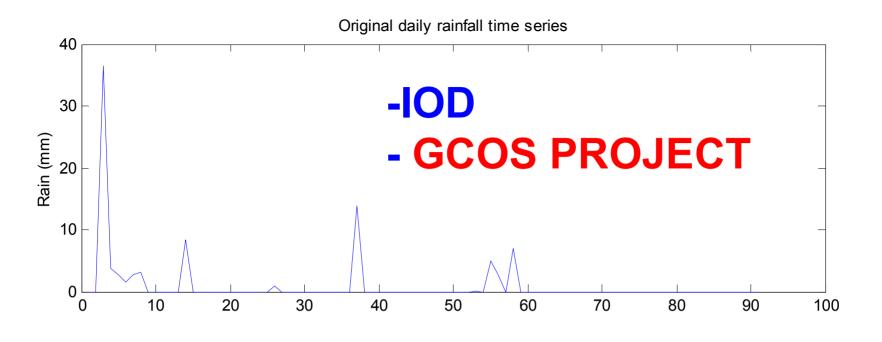


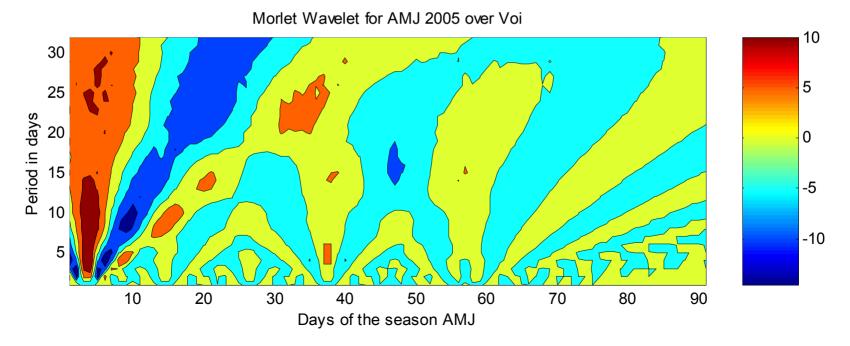




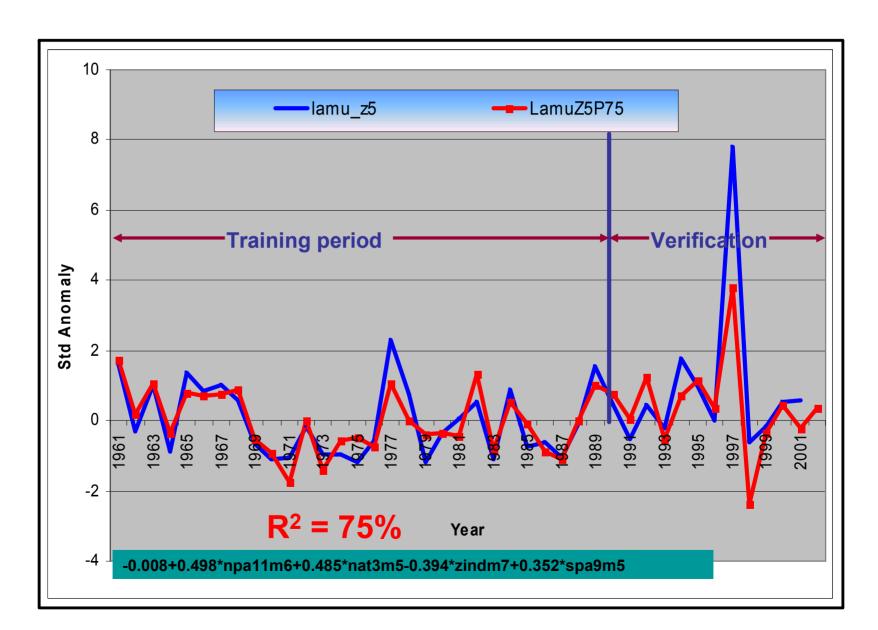
COMPOSITE FOR SON SST(COLOUR) WIND(VECTOR) ANOMALIES - NEGATIVE IOD

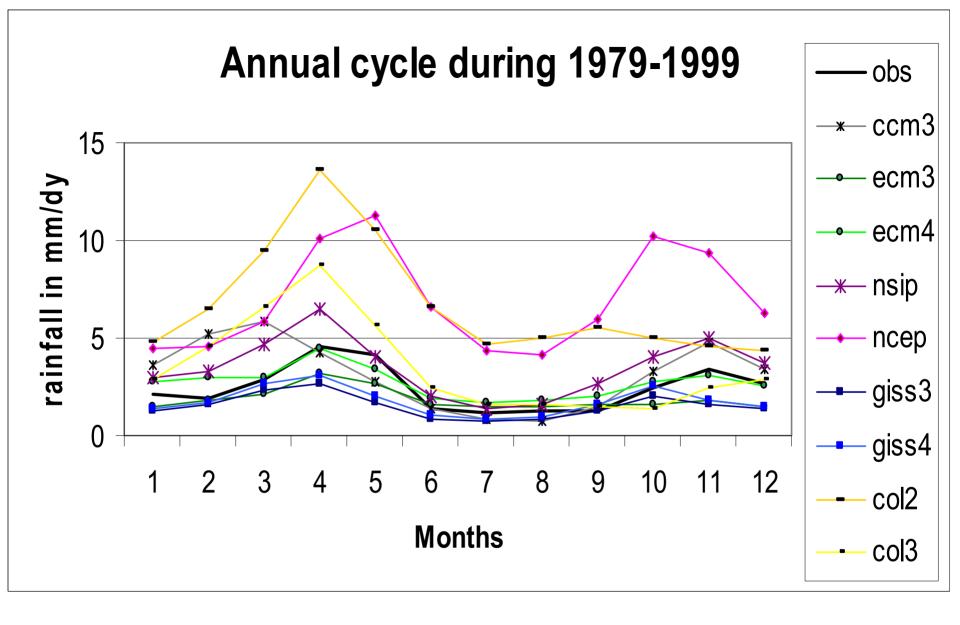






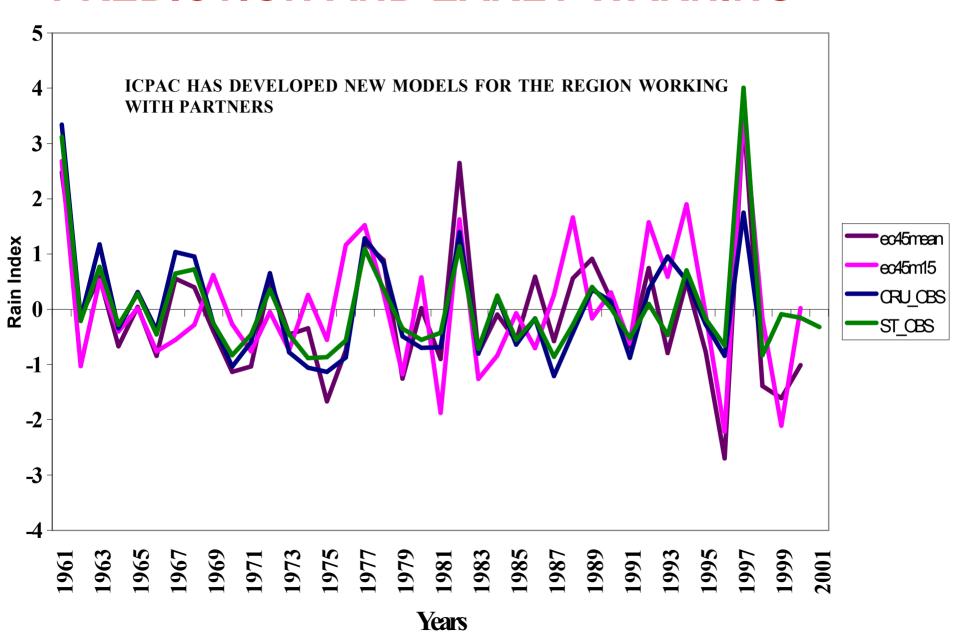
Empirical model





REGIONAL AND INTERNATIONAL COOPERATION VERIFICATION AND EVALUATION Collaboration with IRI

PREDICTION AND EARLY WARNING



WITHIN SEASON UP DATES

- EVERY 10 DAYS: 8,18,28th one day embargo; Monthly and 3 monthly:
- key target nomads, illiterate rural farmers
- Education and awareness
- -Booklets, Translation: NMHSs; ISDR
- RANET

KAJIADO SOUTH - MAASAI COMMUNITY



Water stress due to poor rainfall performance



Wells used as watering points during dry periods



Sensitization of women on use of forecasts



REPUBLIC OF KENYA MINISTRY OF TRANSPORT

Forecast as is given in English

A lady herding her animals



Pupils go through interpreted vernacular forecast

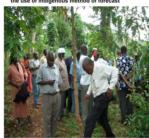


Community and stakeholders after interpretation of seasonal forecast



■► Forecast translated into local Maasai language





Interaction between local community and Stakeholders



Community being taken through the forecast



Forecast given in English

WESTERN KENYA - LUHYA COMMUNITY





Forecast interpretation to the local community



Climate experts, stakeholders and the Nganyi community after seasonal forecast interpretations



Forecast translated into local Luyha language

DISSEM To rural Commu ISDR SU

Participants

- Climate scientists from NMHSs;
 Universities, the region and international centers
- Media experts, policy-makers,
- EXPERTS FROM VARIOUS SECTORS
 agriculture, food security, water
 resources, health, and the general user
 community.
- Gender and youth
- Local community ELDERS INDIGENOUS KNOWLEDGE INTERGRATION

- Themes are chosen to sensitive climate services
- The workshop is normally opened by a senior government minister,
- Guest speakers senior policy makers in the government, lead activists, head on UN agencies, chief executives of private sectors, politicians, among others
- Rotated within he member countries

 Several Pre forum workshops for users

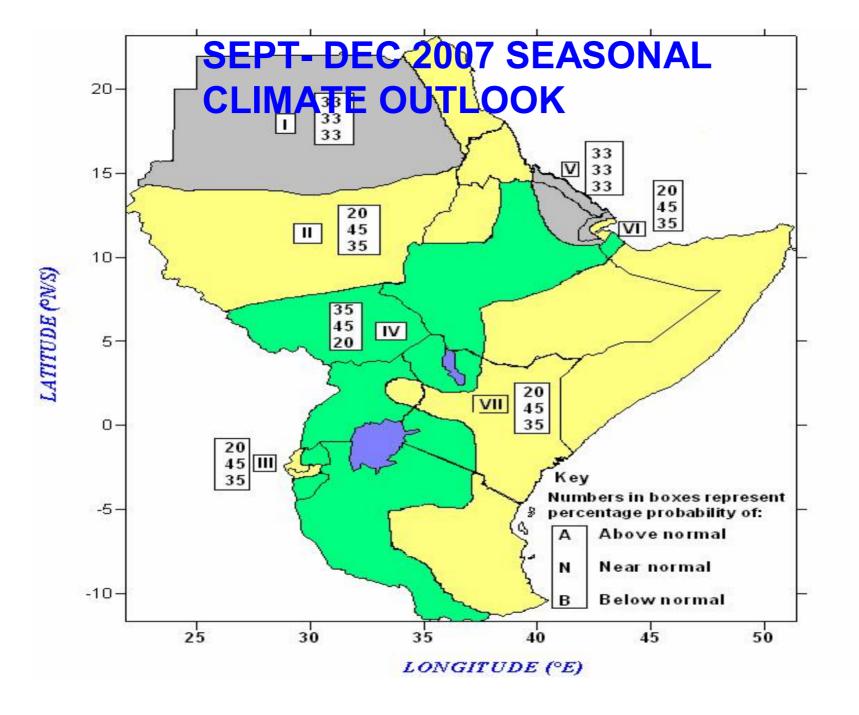
Pilot Application projects: NOAA and WMO

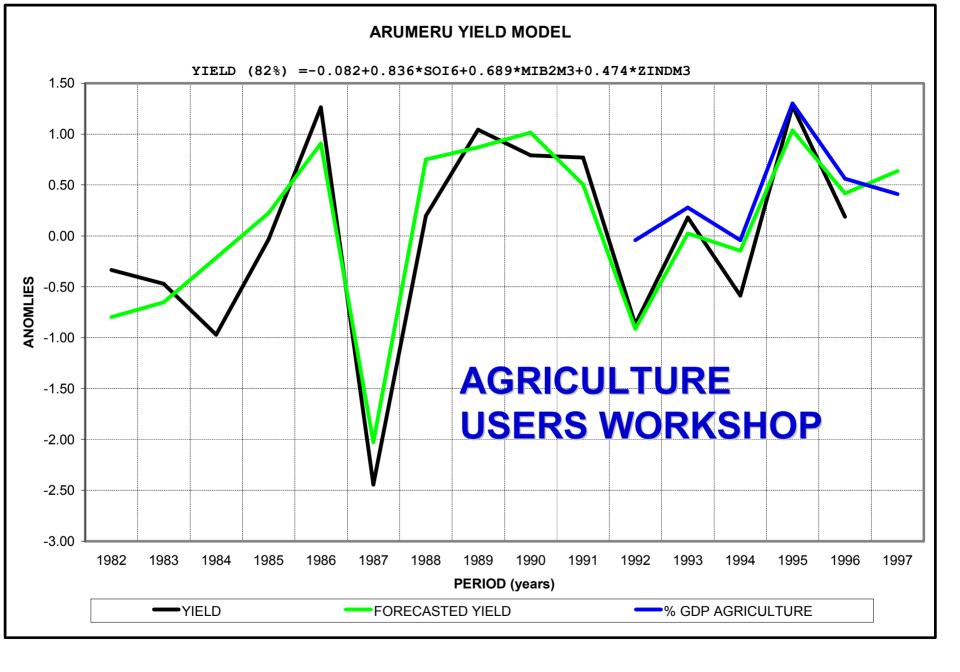
- Indigenous Knowledge (IK)
- Partnerships WITH climate community, USERS and institutions, universities

COF18: INTERFACE: INTERACTIONS WITH THE USERS FROM INTERNATIONAL TO LOCAL LEVELS

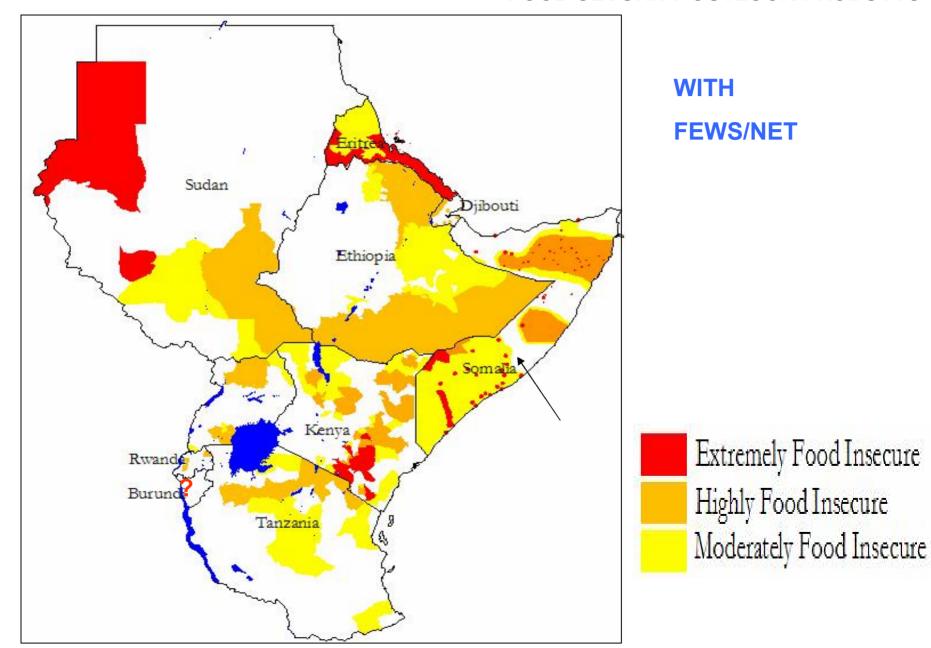


Have provided opportunities for the experts from the regions to share experiences regarding some successes, failures and impediments in national / regional disaster risk reduction

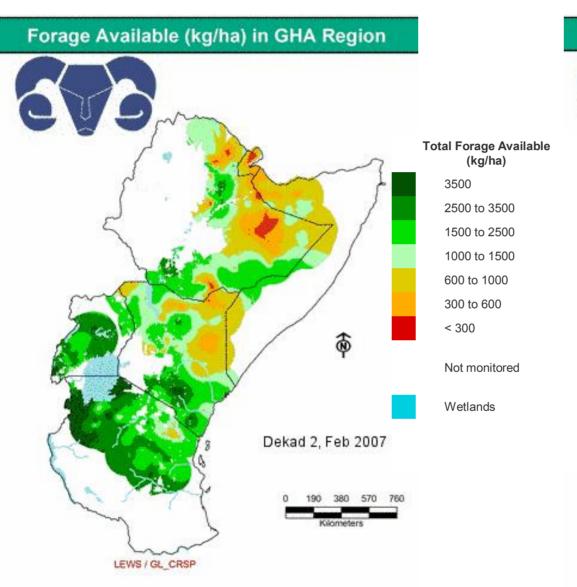


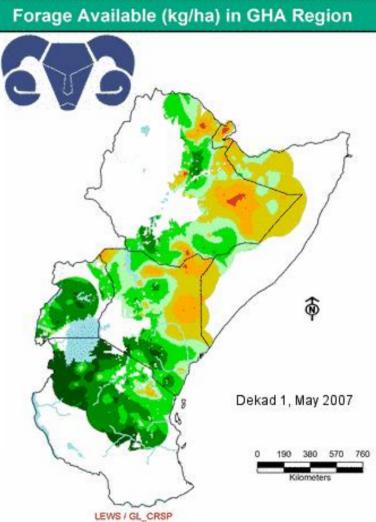


FOOD SECURITY OUTLOOK PRODUCTS



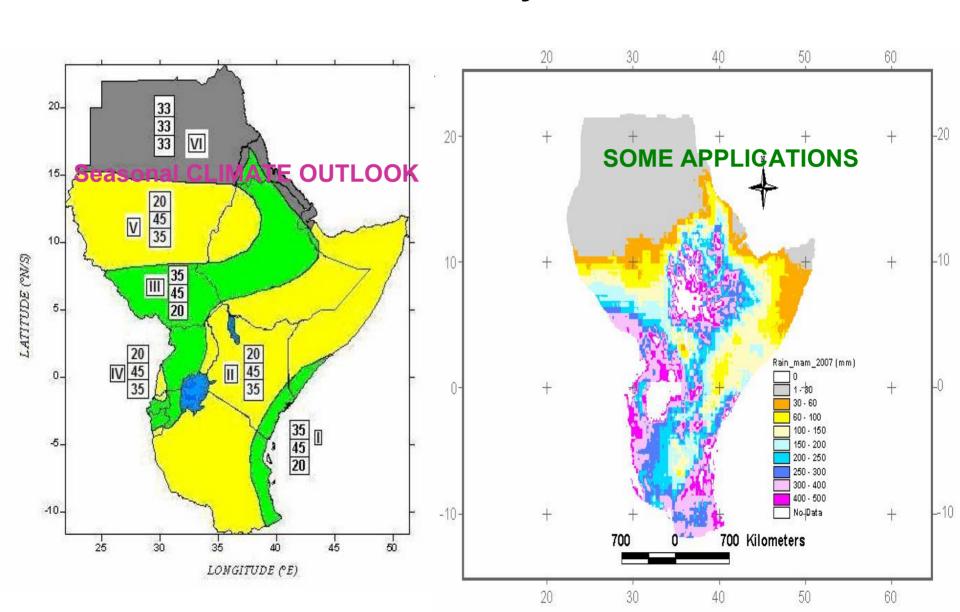
Forage Available: Status (February 2007) and Forecast for May 2007





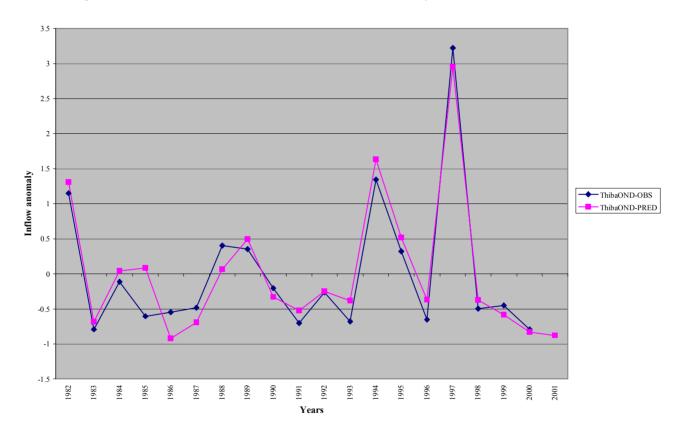
WATER RESOURCES APPLICATIONS USGS / FEWS NET

March -May 2007



DEMONSTRATED APPLICATION OF THE CLIMATE OUTLOOK SYSTEMS

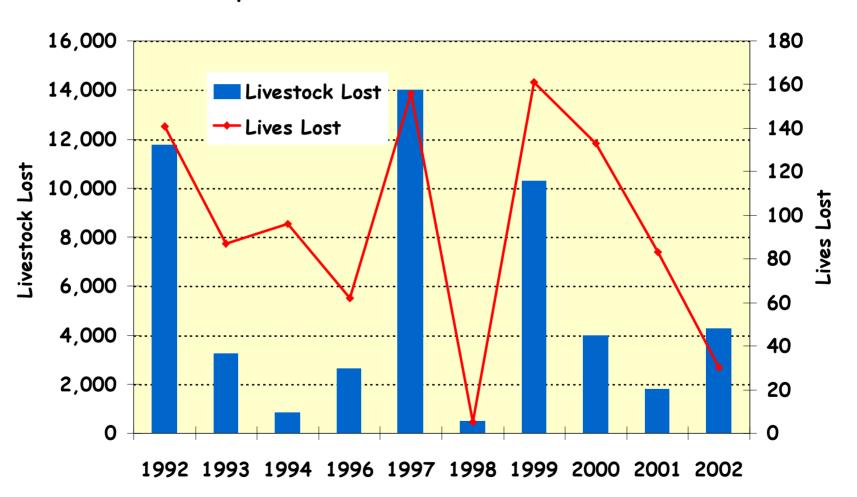
Comparison between Observed and Predicted Thiba OND Inflow anomaly between 1982 - 2001

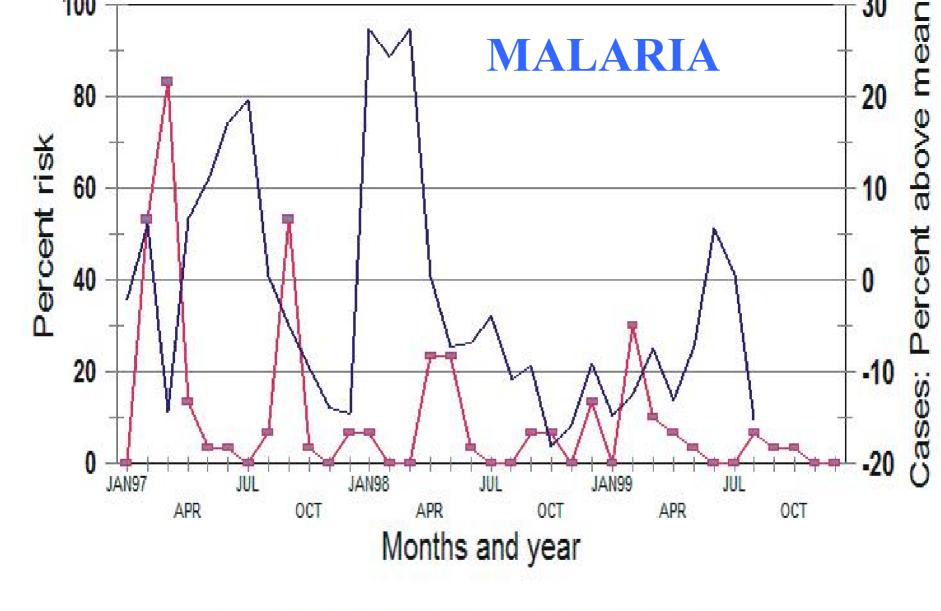


Comparison between Observed and Predicted OND Thiba Inflow anomaly into Kamburu Dam between 1982 – 2001-Kenya

Conflict Trends1992-June 2002

Impacts of Livestock Raids: 1992-2002





Epidemic Risk % — Case anomaly

Role of Indigenous Knowledge www.icpac.net

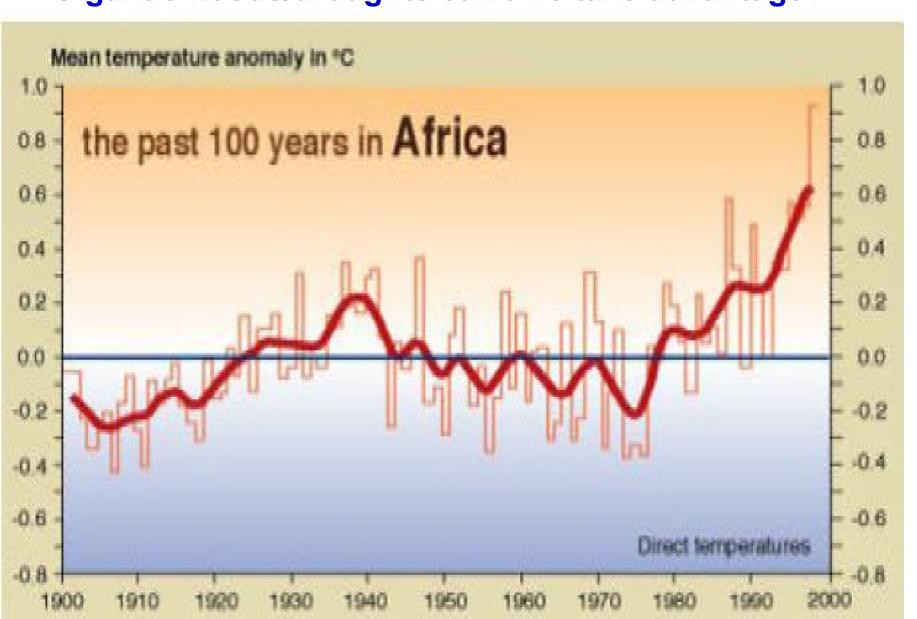


THANKS TO THE MEDIA IN THE REGION



REGIONAL CLIMATE CHANGE

Gigantic floods/droughts can't we take advantage?



KEY CHALLENGES

- Increased Awareness level regarding the socio-economic benefits
- Level of application still very low
- lack of integrated policies for mainstreaming climate in all
- The media in the region has played pivotal roles in dissemination of climate services
- But Large Communities cannot read; believe in IK
- Language very difficult to use the probability based products from climate scientists

KEY CHALLENGES

- The capacity of the region is also still very weak.
- Data is also limited in the region for the development of some special products
- Recurrent of some new the gigantic floods, droughts, more frequent ENSO events, etc seem to be increasing regional interest and demands of climate services.
- Linkages between climate and Development: UNFCCC, ISDR, MDGs, AND OTHER FORUMS.
- COFs have also influenced the establishment of powerful partnerships and collaboration
- WMO/CLIPS, NMHSs, NOAA, USAID, Users, universities, IRI, etc

COF Important dissemination tool

Exporting COFs out of Africa

 celebration of Decade years anniversary

WITHIN SEASON UP DATES

- EVERY 10 DAYS: 8,18,28th one day embargo; Monthly and 3 monthly
- Education and awareness
- Over ten years of experience
- Now world wide forums
- Celebrating decade of experience next year