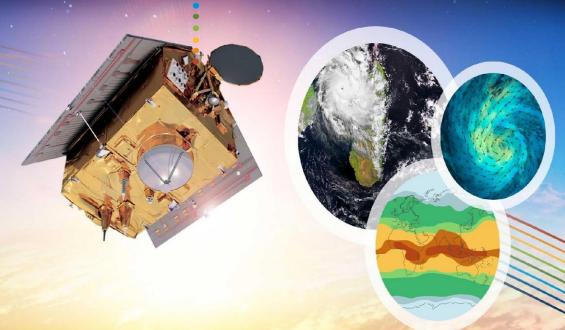


Seasonal Forecasting Workshop on agro-hydro-climatic characteristics of the main rainfall season in the Gulf of Guinea countries / PRESAGG -11

Accra, GHANA February 26 to March 01, 2024





Analysis of LRF products from GPCs

INTRA-ACF CLIMATE SERVICES AND RELATED AFFLICATIONS FRO





Prepared By: ACMAD Team



Analysis of LRF products from Global Producing Center

- What is it all about?
- Why is it of interest?
- Where to get the products?
- Best when dealing with products from GPCs



Single Model Ensemble Analysis (i,e ECMWF, MF, NCEP, UKMET)

SSTs and Precip Forecast



Single Model Ensemble Analysis (SSTs)

MAM Season

ECMWF System 5 MAM 2024 CFSv2

CFSv2 Sea Surface Temperature Anomalies (DecC)

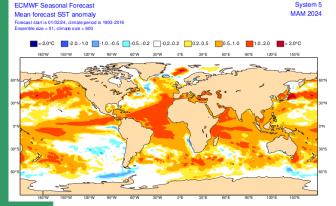
Mar2024—May2024 February2024 initial conditions

CanCM4i

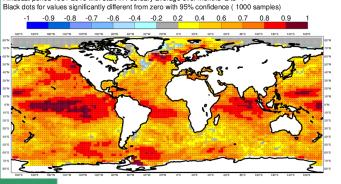
CanCM4i Sea Surface Temperature Anomalies (DecC)

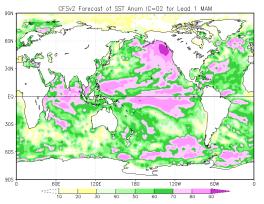
Mar2024—May2024 February2024 initial conditions

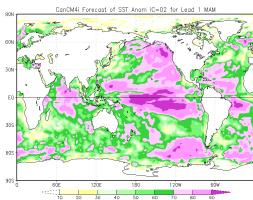
FCST



Anomaly Correlation Coefficient for 0001 with 25 ensemble members Sea Surface temperature Hindcast period 1981-2016 with start in February average over months 2 to 4





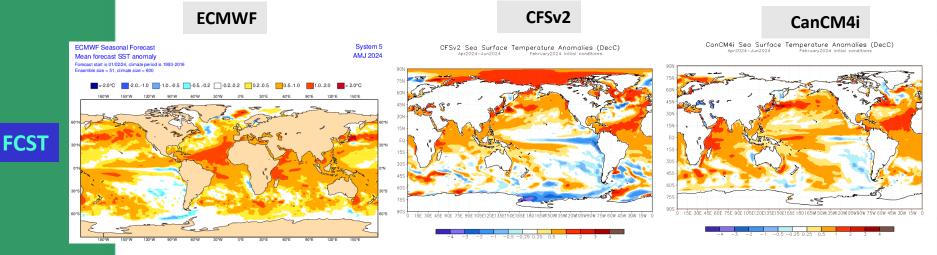




Single Model Ensemble Analysis (SSTs)

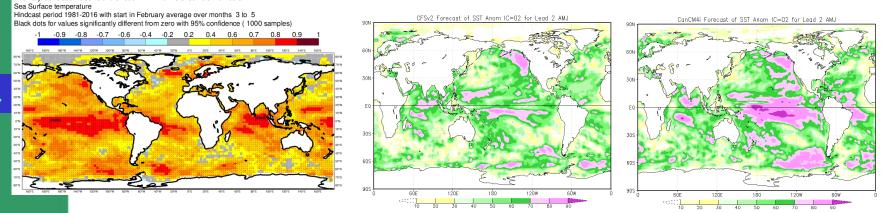
AMJ Season

with 25 ensemble members



SKILL

Anomaly Correlation Coefficient for 0001





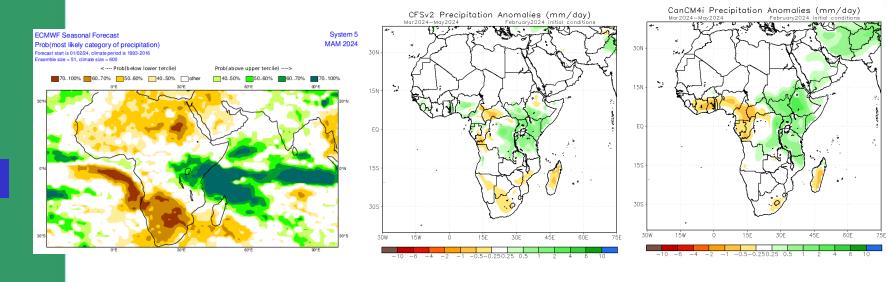
Single model Ensemble Analysis (Rainfall)

MAM Season

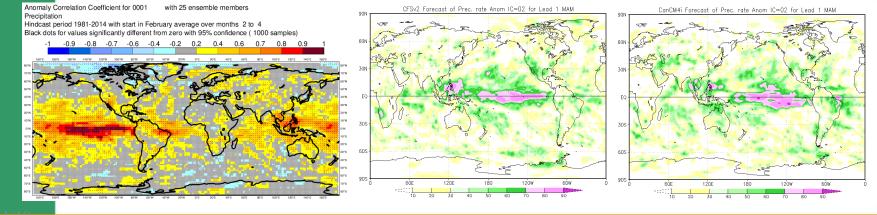
ECMWF

CFSv2

CanCM4i



FCST



ACMAD

Single model Ensemble Analysis (Rainfall)

AMJ Season

CFSv2 **ECMWF** CanCM4i CFSv2 Precipitation Anomalies (mm/day)
Apr2024—Jun2024 February2024 initial condition CanCM4i Precipitation Anomalies (mm/day) **ECMWF Seasonal Forecast** System 5 AMJ 2024 Prob(most likely category of precipitation) 30N **FCST** 15W Anomaly Correlation Coefficient for 0001 with 25 ensemble members CanCM4i Forecast of Prec. rate Anom IC=02 for Lead 2 AMJ CFSv2 Forecast of Prec. rate Anom IC=02 for Lead 2 AMJ Hindcast period 1981-2014 with start in February average over months 2 to 4 Black dots for values significantly different from zero with 95% confidence (1000 samples) -0.9 -0.8 -0.7 -0.6 -0.4 -0.2 0.2 0.4 0.6 0.7 0.8 0.9





Multi Model Ensemble Analysis (i,e C3S, NMME, WMO-LC) SSTs and Precip Forecast



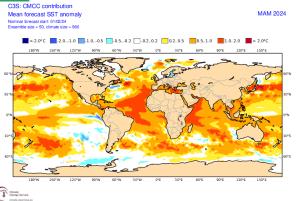
Multimodel Ensemble Analysis (SSTs)

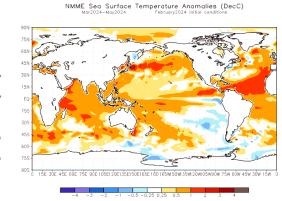
MAM Season

C3S NMME

WMO-LC

FCST





90N NMME Forecast of SST Anom IC=02 for Lead 1 MAM
60N
50N
60S
60S
90S
60E 120E 180 120W 60W 0



Multimodel Ensemble Analysis (SSTs)

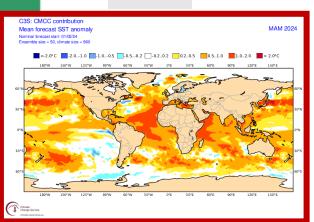
AMJ Season

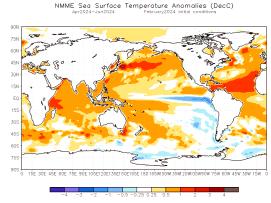
C3S

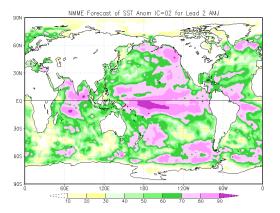
NMME

WMO-LC

FCST



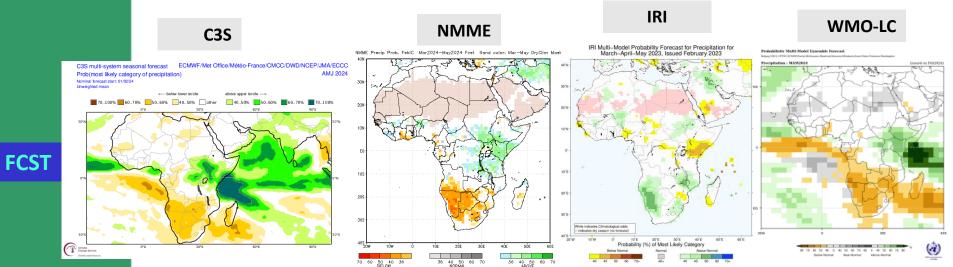


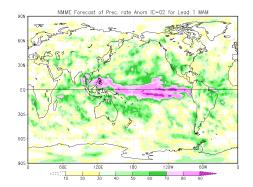




Multimodel Ensemble Analysis (Rainfall)

MAM Season

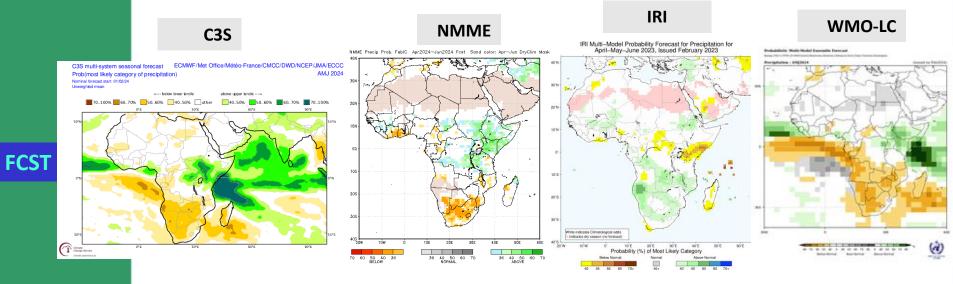






Multimodel Ensemble Analysis(Rainfall)

AMJ Season



60N 50S 60S 60S 60S 60S 60S

NMME Forecast of Prec. rate Anom IC=02 for Lead 2 AMJ









Follow us on Twitter:

@AcmadNiamey

Follow us on Facebook:

facebook

nttps://www.facebook.com/ACMAD-470332183044388