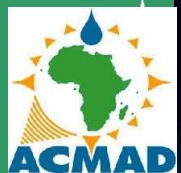


# Seasonal Forecasting Workshop on agro-hydro-climatic characteristics of the main rainfall season in the Gulf of Guinea countries / PRESAGG -11



Accra, GHANA

February 26 to March 01, 2024



**Rainfall Outlook MAM & AMJ 2024  
Issued: Feb 2024**



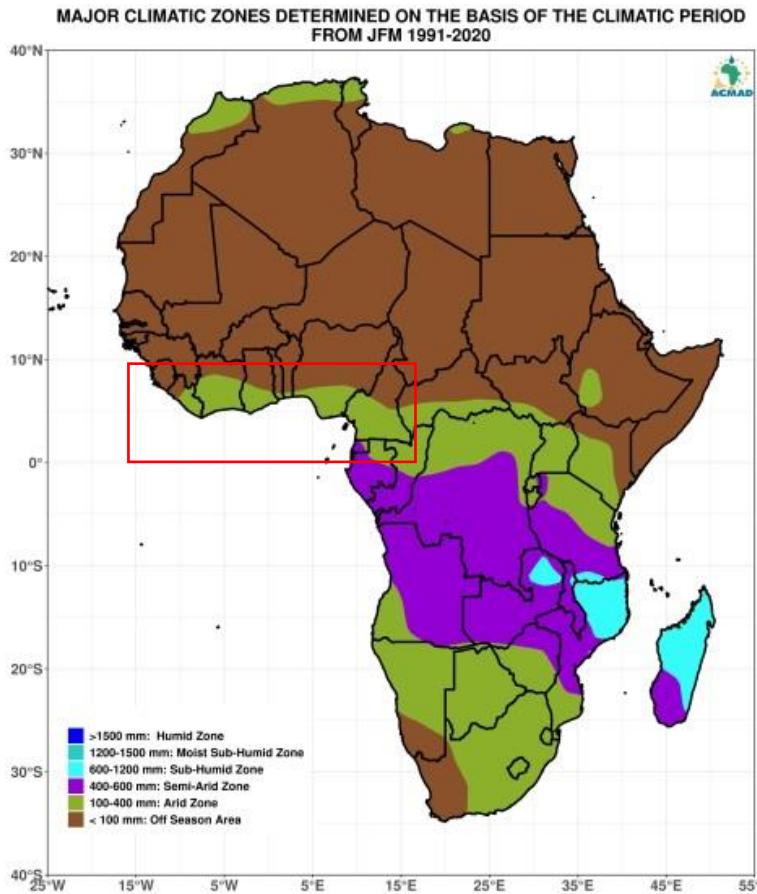
An initiative of the Organisation of African, Caribbean and Pacific States funded by the European Union



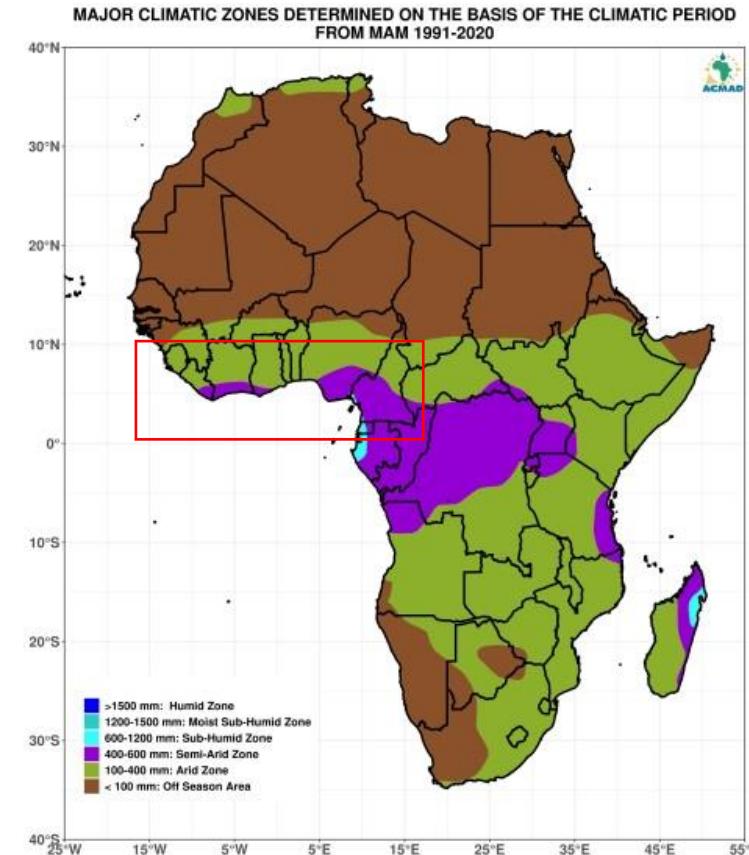
Prepared By: Climate Group

# *Time series analysis of Climate variability and trends (Climatic zones)*

**Season 1 = MARCH-APRIL-MAY**



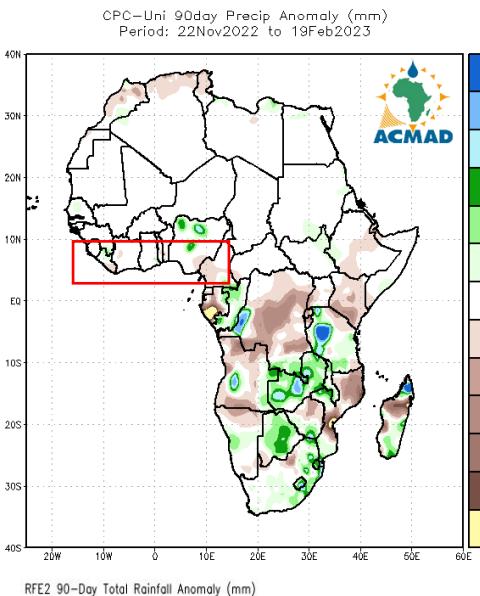
**Season 2 = APRIL-MAY-JUNE**



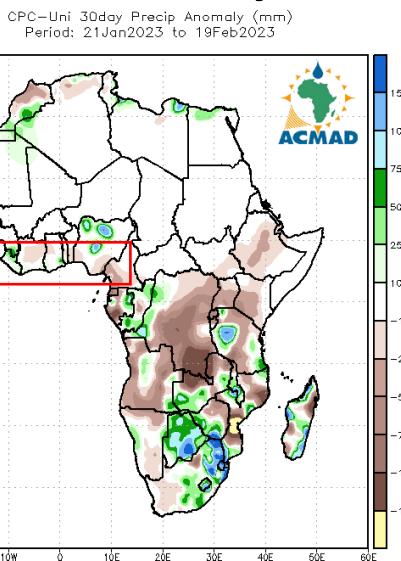


# Time series analysis of Climate variability and trends(Persistence forecast)

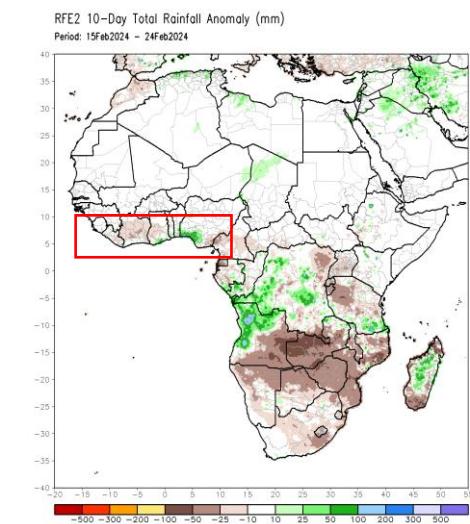
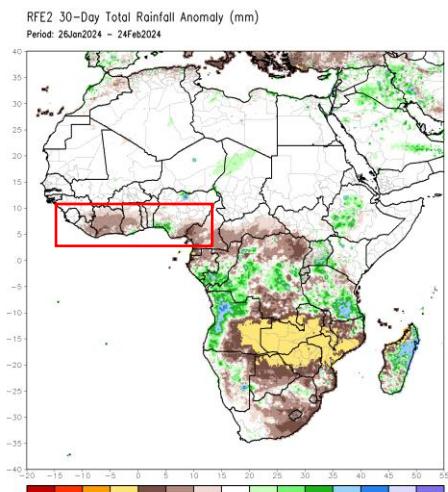
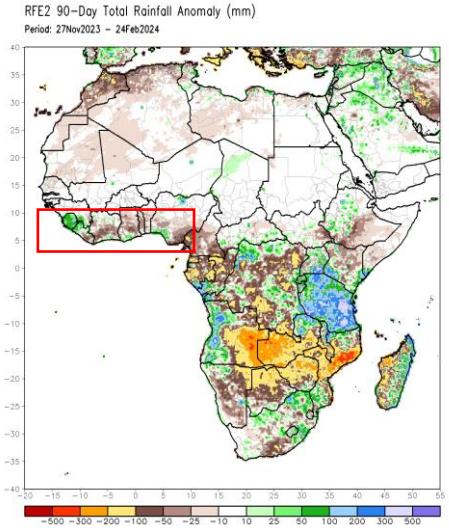
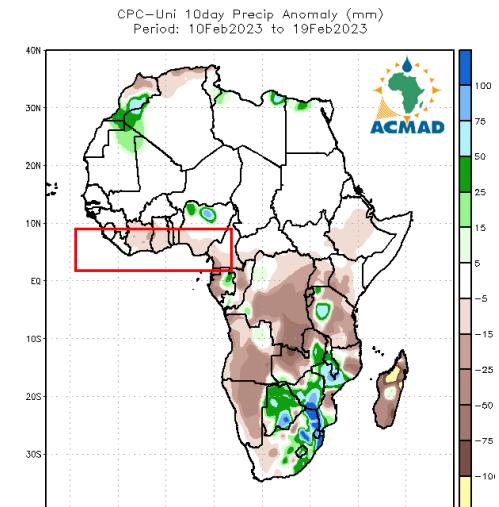
## Latest 90-days



## Last 30-days

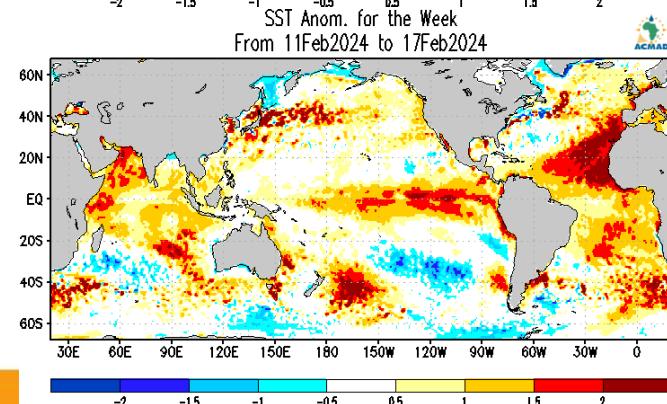
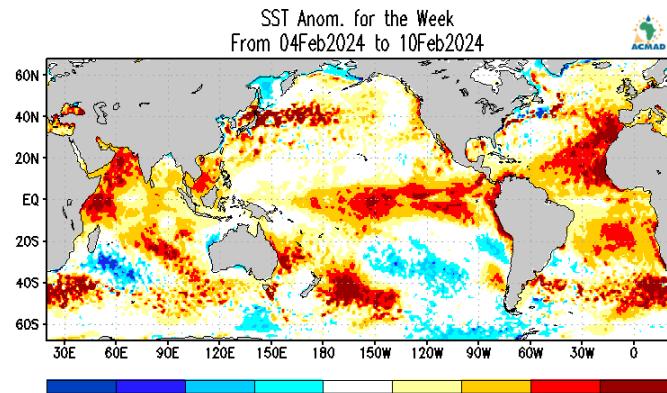
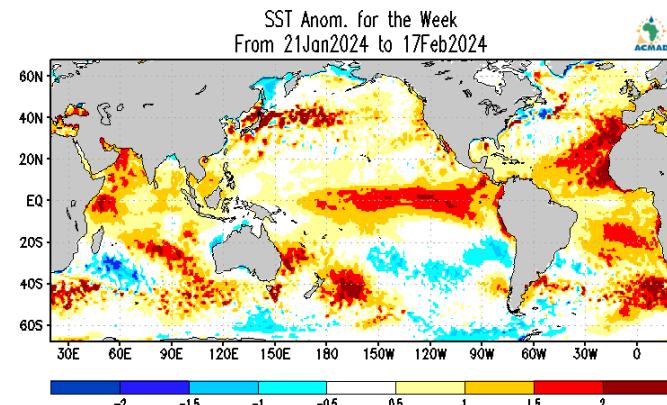
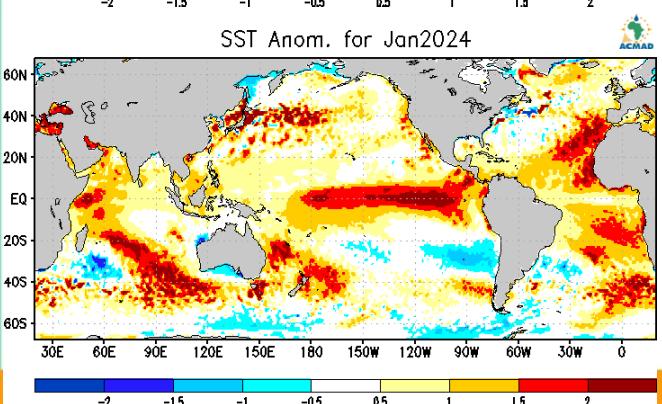
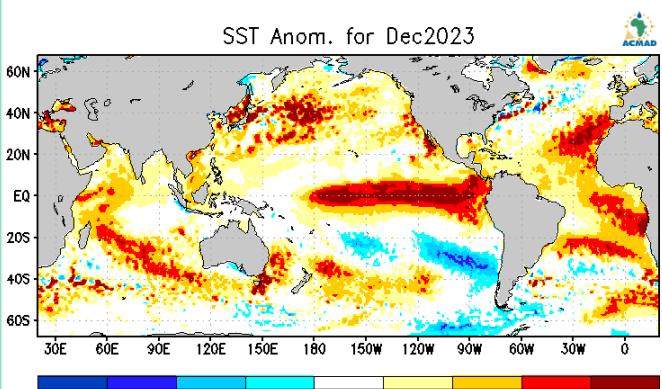
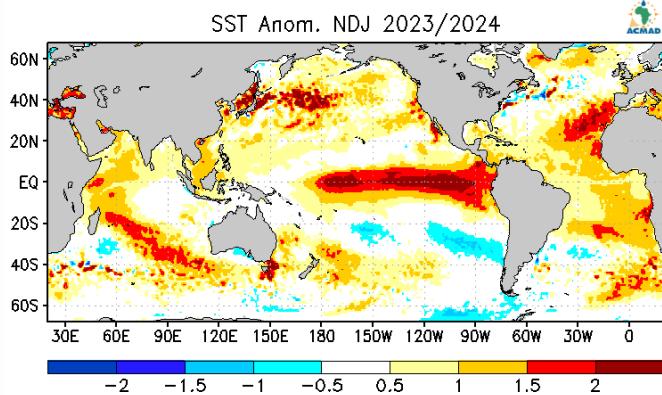


## Last 10-days





# State of the Global Ocean – Current Status



24/11/10

# Identification of Analogue Years (2)



**Blue – La Niña**

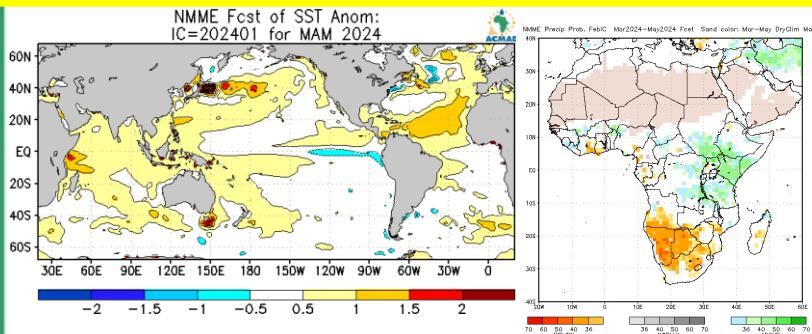
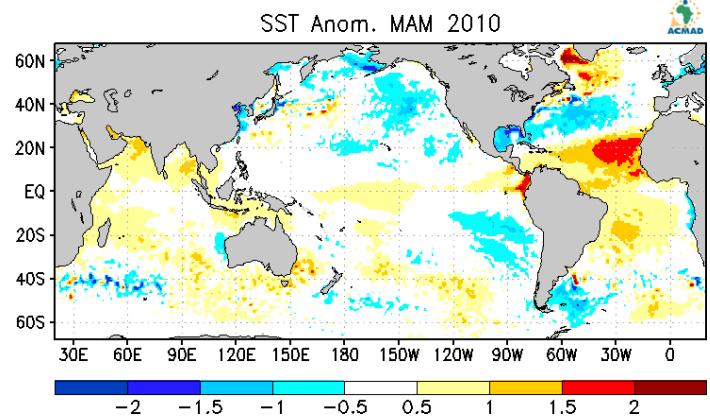
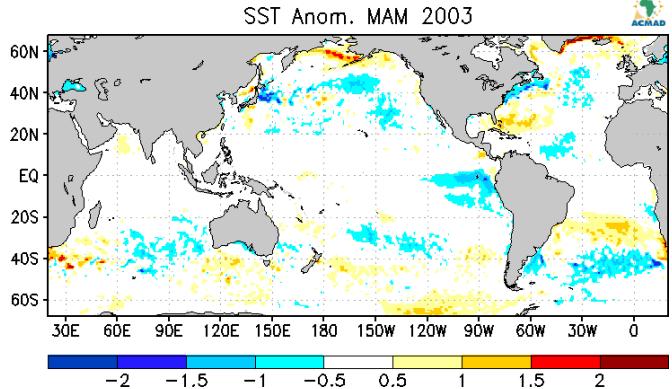
**Red – El Niño**

Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2000	-1.7	-1.4	-1.1	-0.8	-0.7	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7
2001	-0.7	-0.5	-0.4	-0.3	-0.3	-0.1	-0.1	-0.1	-0.2	-0.3	-0.3	-0.3
2002	-0.1	0.0	0.1	0.2	0.4	0.7	0.8	0.9	1.0	1.2	1.3	1.1
2003	0.9	0.6	0.4	0.0	-0.3	-0.2	0.1	0.2	0.3	0.3	0.4	0.4
2004	0.4	0.3	0.2	0.2	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.7
2005	0.6	0.6	0.4	0.4	0.3	0.1	-0.1	-0.1	-0.1	-0.3	-0.6	-0.8
2006	-0.9	-0.8	-0.6	-0.4	-0.1	0.0	0.1	0.3	0.5	0.8	0.9	0.9
2007	0.7	0.2	-0.1	-0.3	-0.4	-0.5	-0.6	-0.8	-1.1	-1.3	-1.5	-1.6
2008	-1.6	-1.5	-1.3	-1.0	-0.8	-0.6	-0.4	-0.2	-0.2	-0.4	-0.6	-0.7
2009	-0.8	-0.8	-0.6	-0.3	0.0	0.3	0.5	0.6	0.7	1.0	1.4	1.6
Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2010	1.5	1.2	0.8	0.4	-0.2	-0.7	-1.0	-1.3	-1.6	-1.6	-1.6	-1.6
2011	-1.4	-1.2	-0.9	-0.7	-0.6	-0.4	-0.5	-0.6	-0.8	-1.0	-1.1	-1.0
2012	-0.9	-0.7	-0.6	-0.5	-0.3	0.0	0.2	0.4	0.4	0.3	0.1	-0.2
2013	-0.4	-0.4	-0.3	-0.3	-0.4	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2	-0.3
2014	-0.4	-0.5	-0.3	0.0	0.2	0.2	0.0	0.1	0.2	0.5	0.6	0.7
2015	0.5	0.5	0.5	0.7	0.9	1.2	1.5	1.9	2.2	2.4	2.6	2.6
2016	2.5	2.1	1.6	0.9	0.4	-0.1	-0.4	-0.5	-0.6	-0.7	-0.7	-0.6
2017	-0.3	-0.2	0.1	0.2	0.3	0.3	0.1	-0.1	-0.4	-0.7	-0.8	-1.0
2018	-0.9	-0.9	-0.7	-0.5	-0.2	0.0	0.1	0.2	0.5	0.8	0.9	0.8
2019	0.7	0.7	0.7	0.7	0.5	0.5	0.3	0.1	0.2	0.3	0.5	0.5
Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2020	0.5	0.5	0.4	0.2	-0.1	-0.3	-0.4	-0.6	-0.9	-1.2	-1.3	-1.2
2021	-1.0	-0.9	-0.8	-0.7	-0.5	-0.4	-0.4	-0.5	-0.7	-0.8	-1.0	-1.0
2022	-1.0	-0.9	-1.0	-1.1	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8
2023	-0.7	-0.4	-0.1	0.2	0.5	0.8	1.1	1.3	1.6	1.8	1.9	2.0

Analog Years
2003
2010
2016
2019

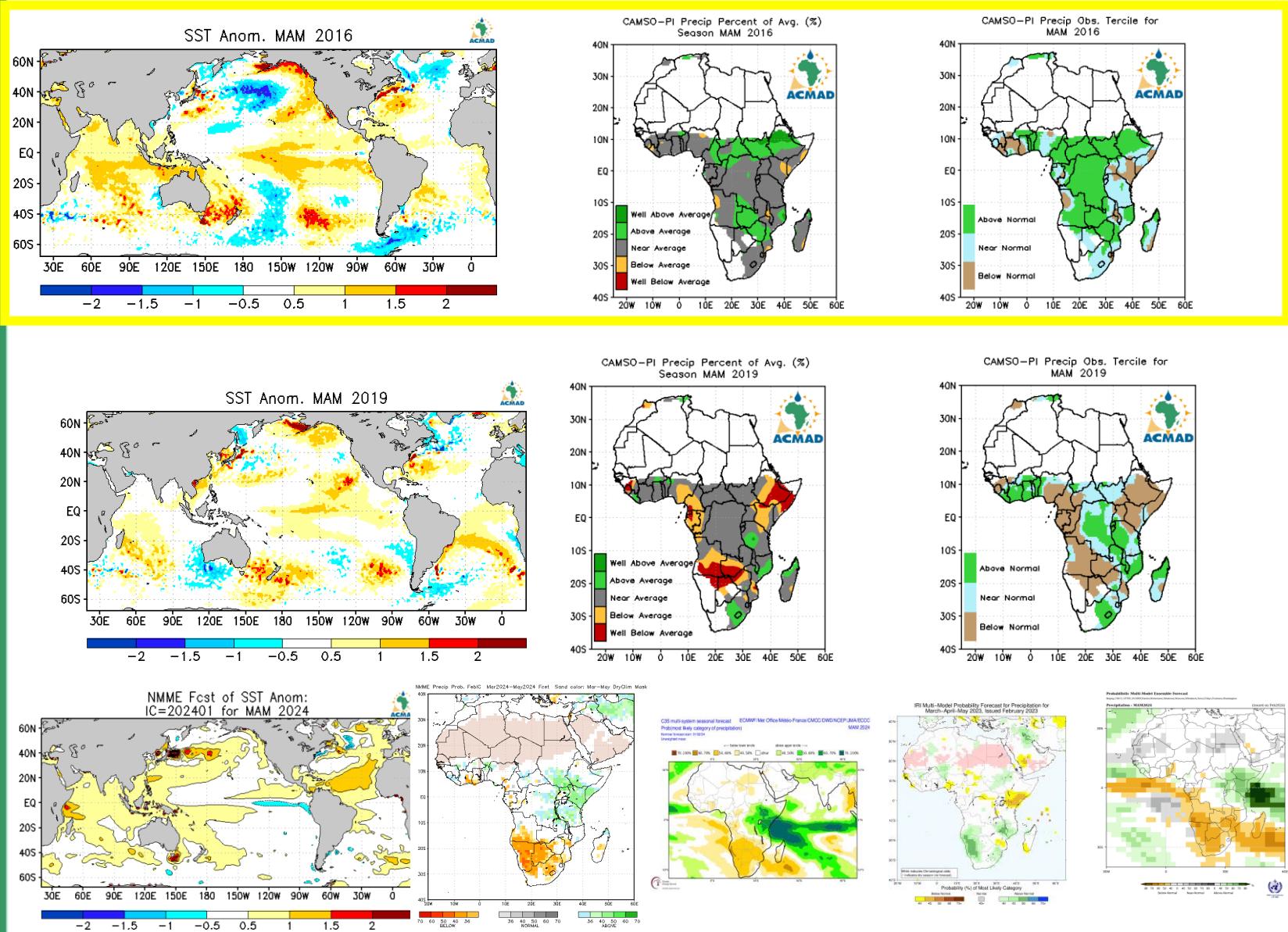


# Analogue Analysis (3) - Identical Years- MAM



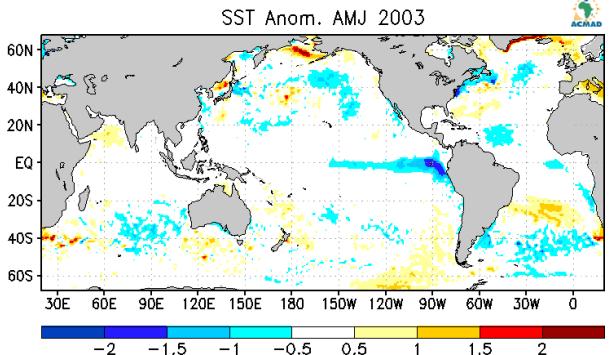


# Analogue Analysis (3) – Identical Years- MAM

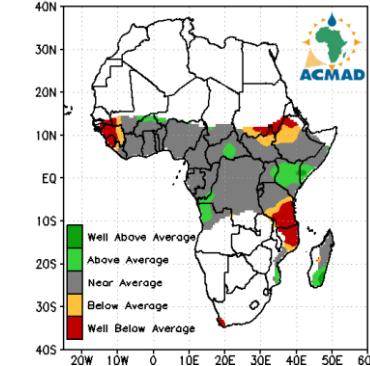




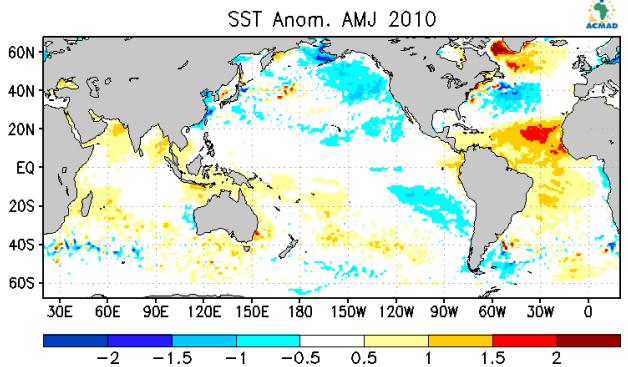
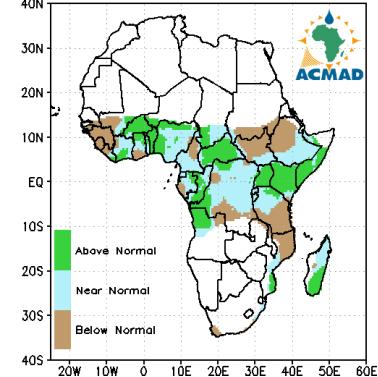
# Analogue Analysis (3) – Identical Years- AMJ



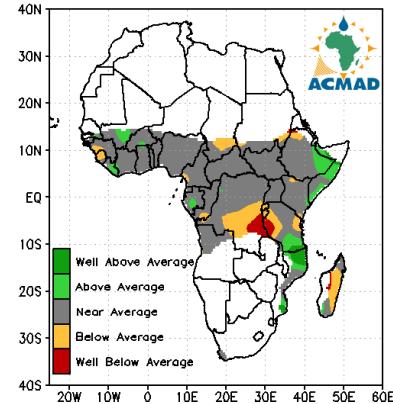
CAMSO-PI Precip Percent of Avg. (%)  
Season AMJ 2003



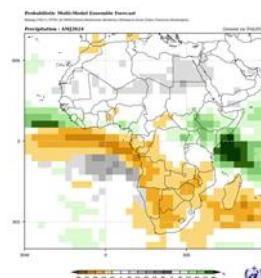
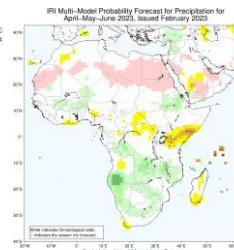
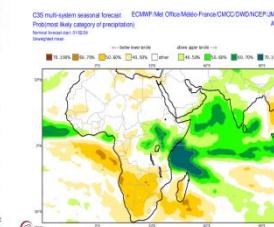
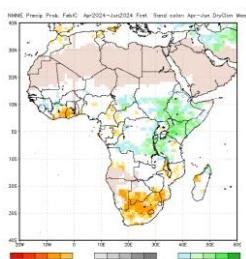
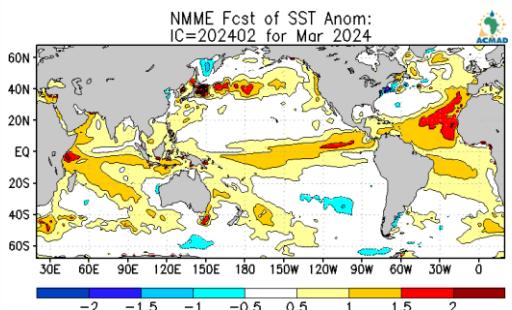
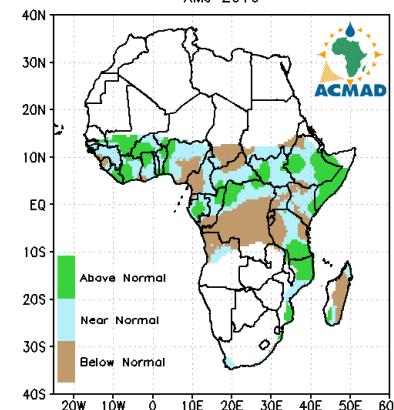
CAMSO-PI Precip Obs. Tercile for  
AMJ 2003



CAMSO-PI Precip Percent of Avg. (%)  
Season AMJ 2010

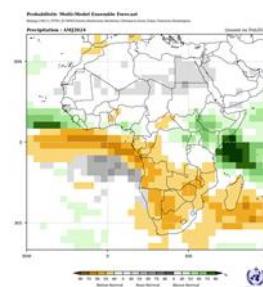
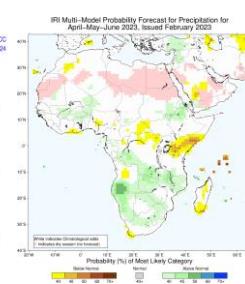
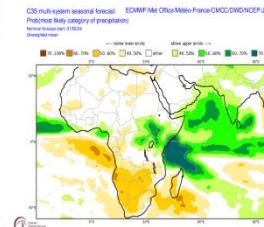
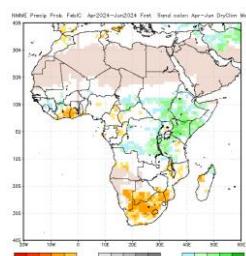
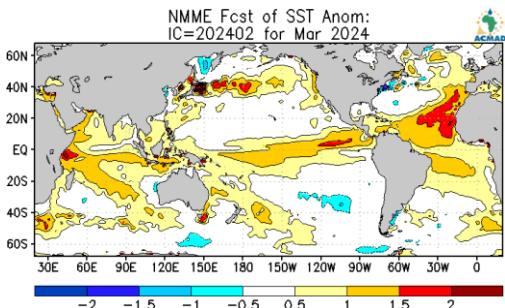
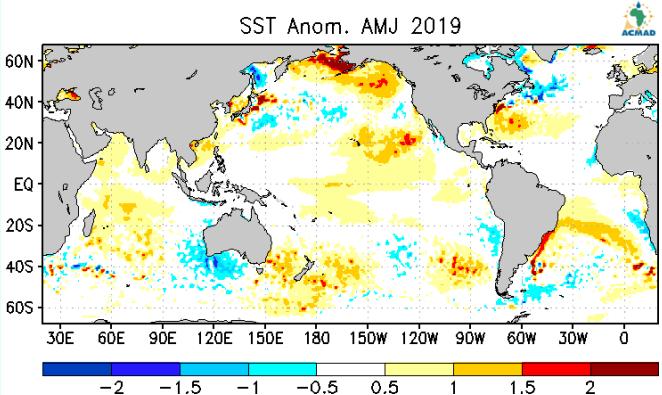
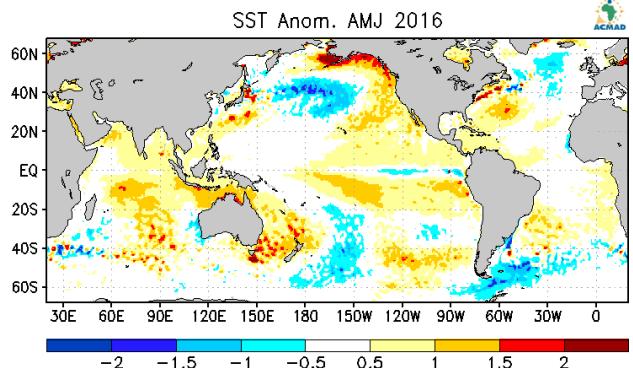


CAMSO-PI Precip Obs. Tercile for  
AMJ 2010





# Analogue Analysis (3) – Identical Years- AMJ



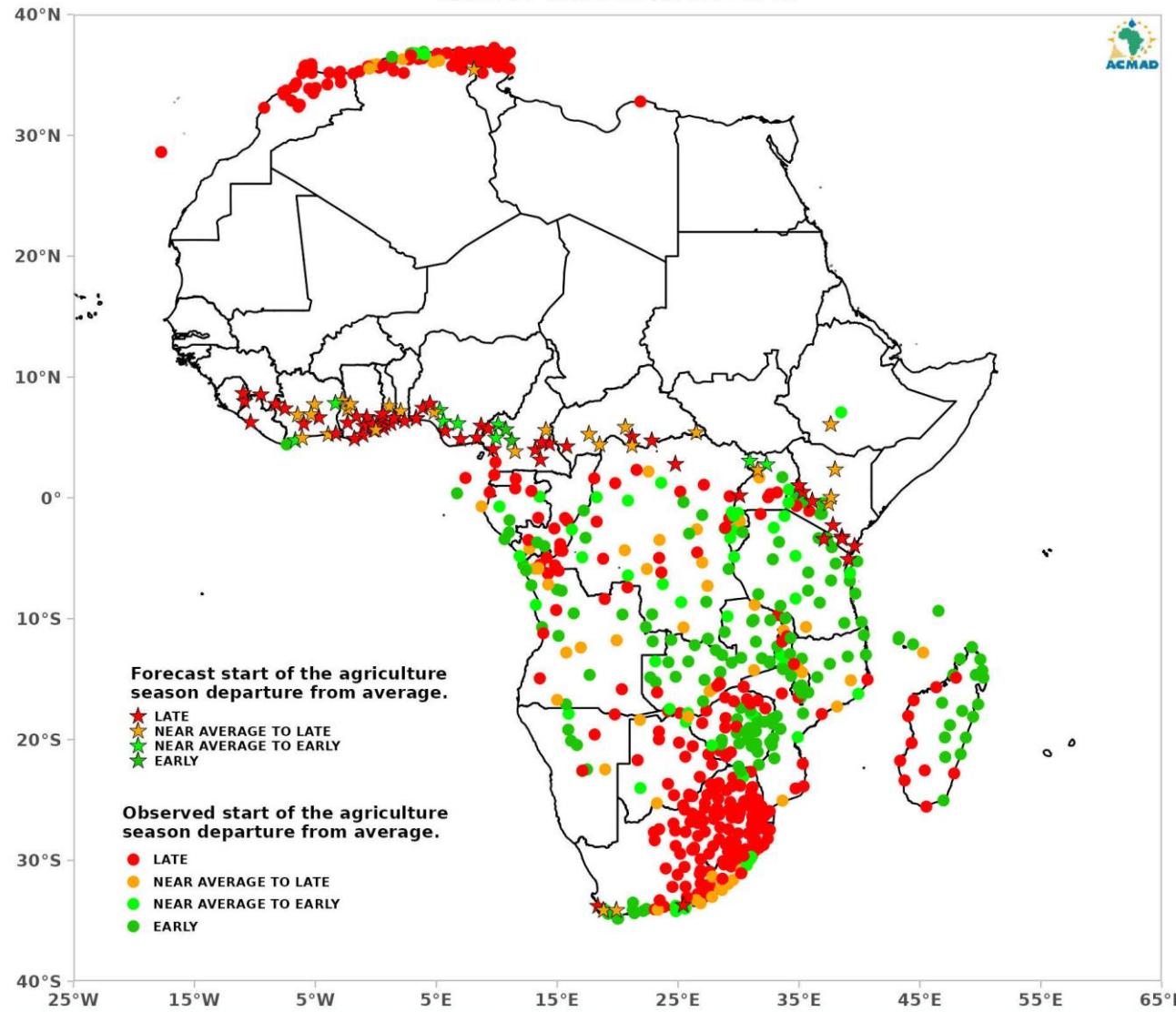
# ONSET

MONITORING OF OBSERVED ANOMALIES ON THE START OF THE AGRICULTURE SEASON AND OUTLOOK

MONITORING PERIOD: Jul-2023 to Feb-2024

OUTLOOK VALIDITY PERIOD: From Feb-23-2024 to Mar-08-2024

DATE OF ISSUE: FEB-23-2024.

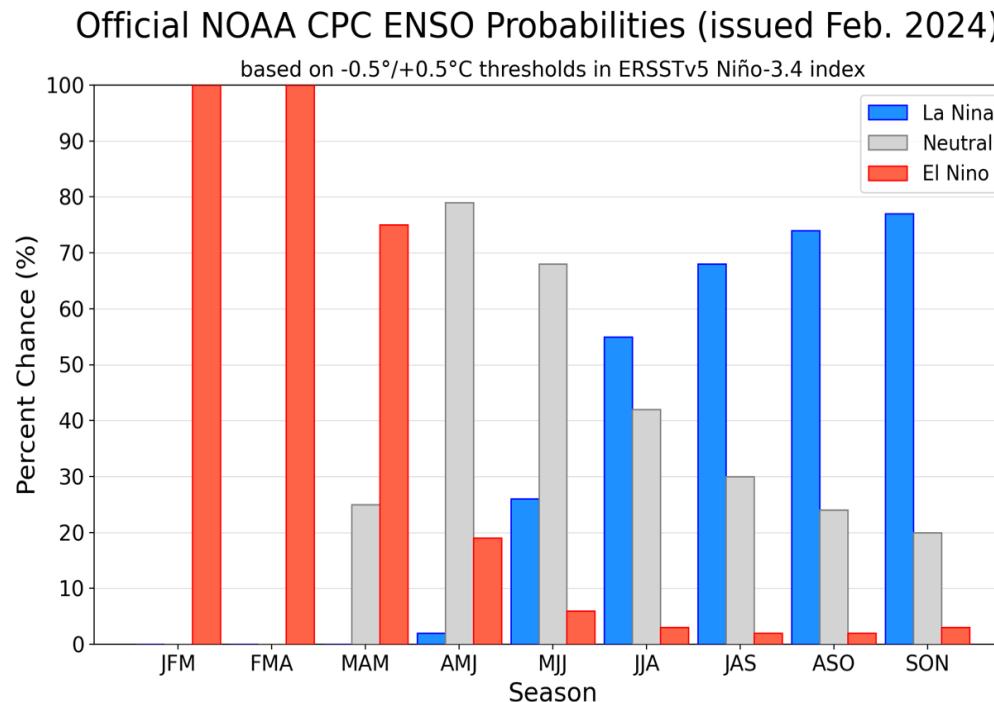


**Teleconnections analysis (i,e ENSO, AMO, IOD, SIOD, Atlantic Dipole, NAO, AO, SAM, Benguela Nino, Mediterranean SSTAs)**

# CPC Probabilistic ENSO Outlook

Updated: 8 February 2024

A transition from El Niño to ENSO-neutral is expected by April-June season 2024, with ENSO-neutral persisting through May-July 2024. Thereafter, La Niña is favored in June-August, and chances increase through the September-November season.

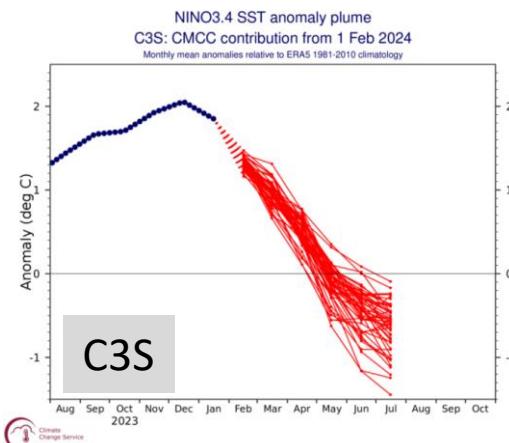
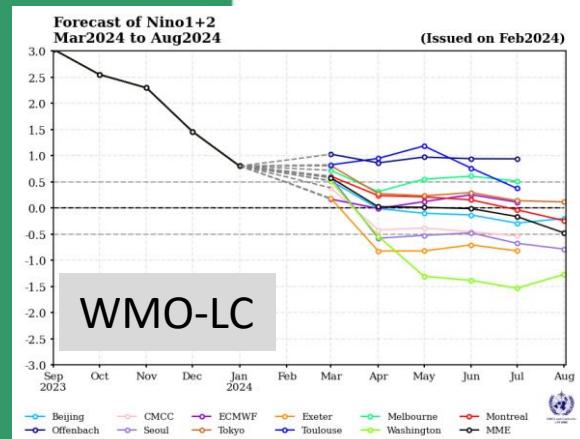
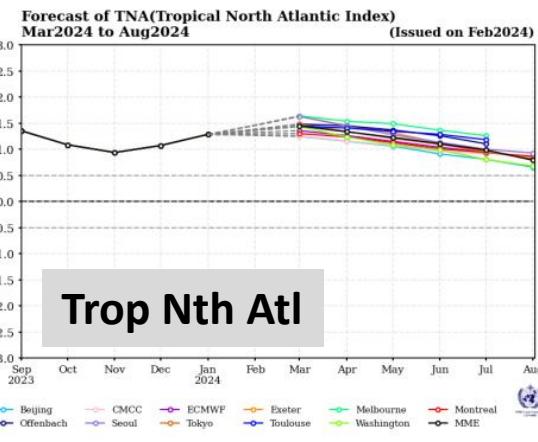
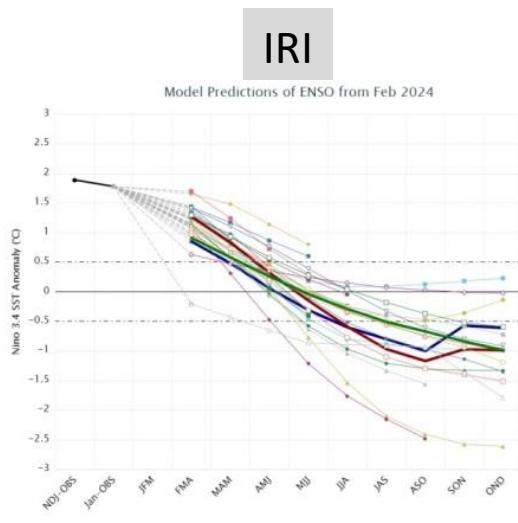
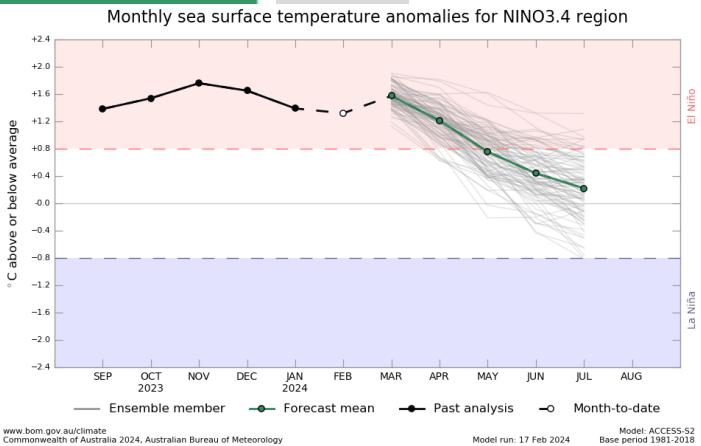


## **Teleconnections analysis (i.e ENSO TNA and TSA) - Index plumes**



# ENSO Plumes

BoM



## Moderate to neutral El Nino



# *Teleconnections analysis – Likely impacts on the within the region*

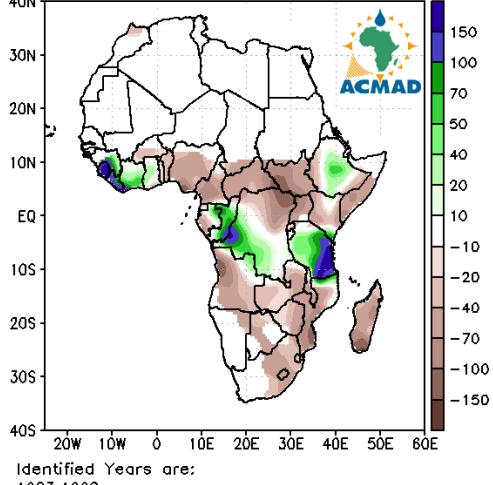


MAM

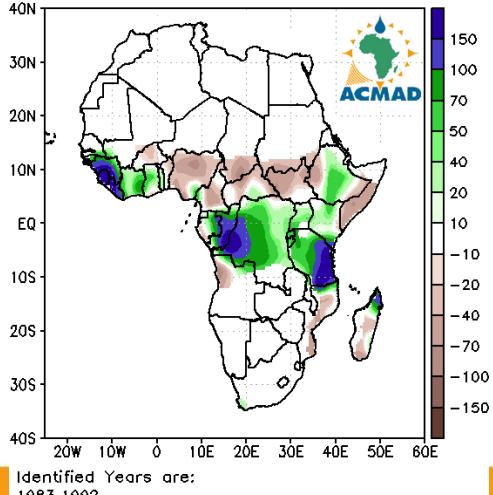
AMJ

## Mod El Nino

CAMS-OPI Precipitation Anomaly Associated with Moderate El Nino Events during the Season MAM

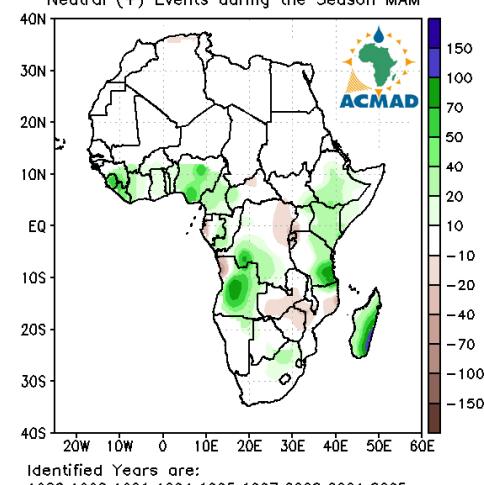


CAMS-OPI Precipitation Anomaly Associated with Moderate El Nino Events during the Season AMJ

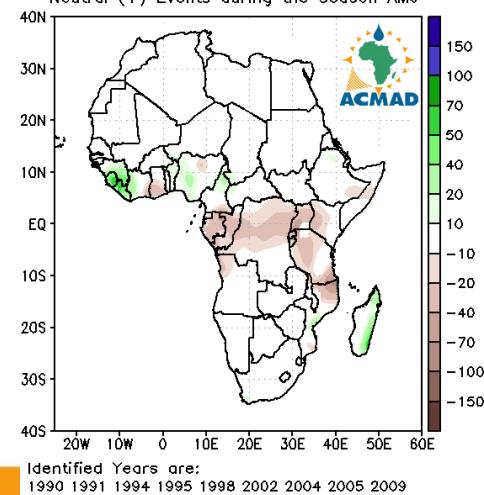


## Weak El Nino to Neutral pos

CAMS-OPI Precipitation Anomaly Associated with Neutral (+) Events during the Season MAM



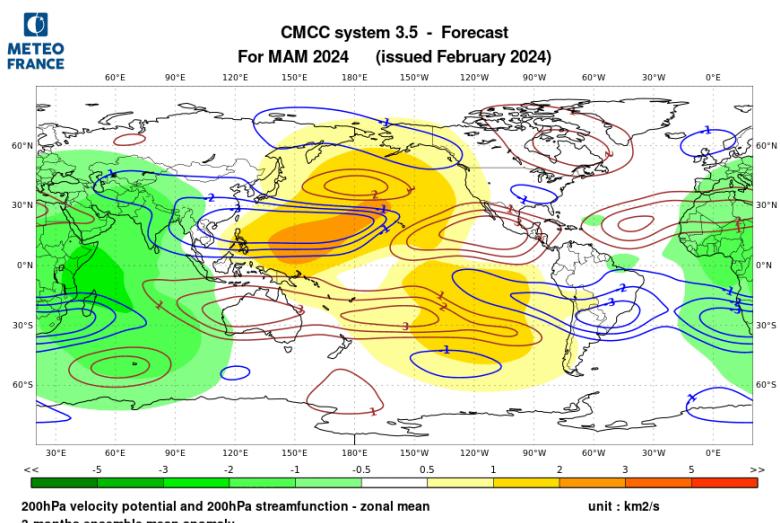
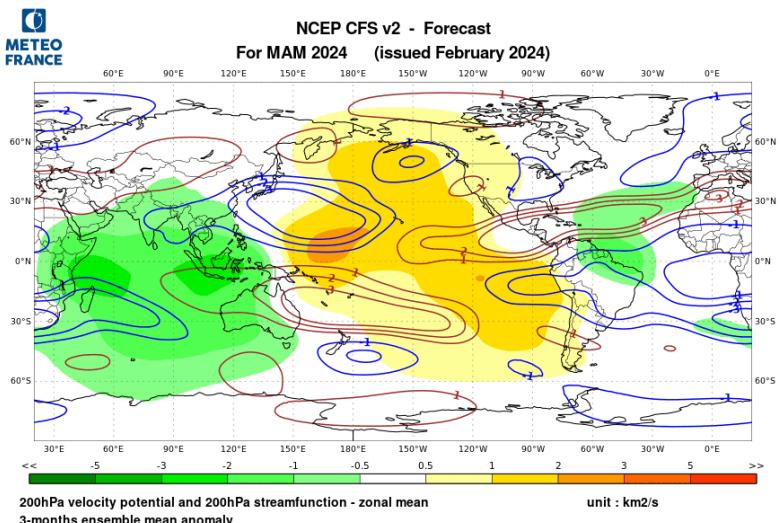
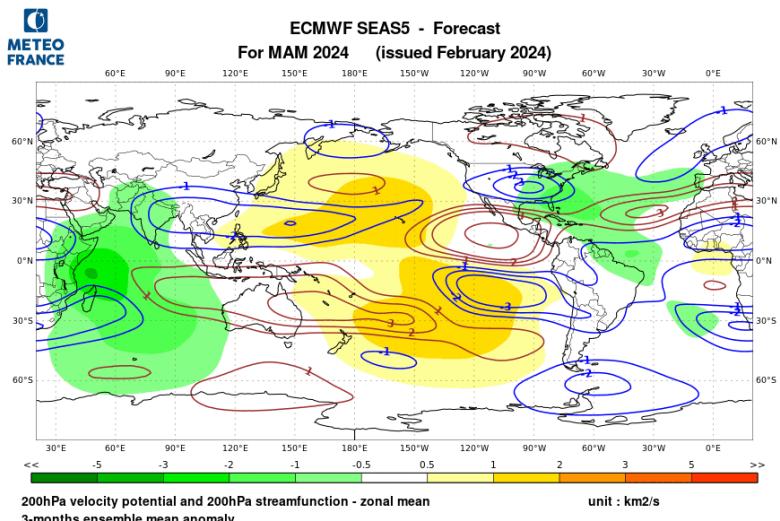
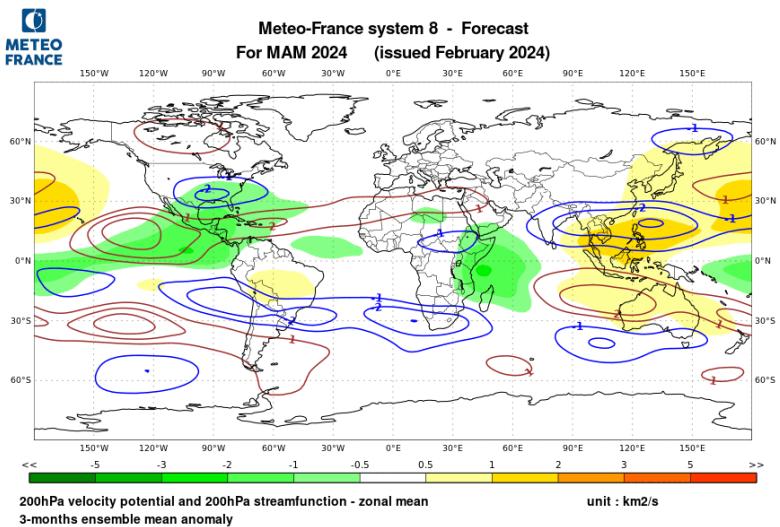
CAMS-OPI Precipitation Anomaly Associated with Neutral (+) Events during the Season AMJ



## **Interactions analysis between seasons and regions for the same target season – Impact of Tropical Activity**

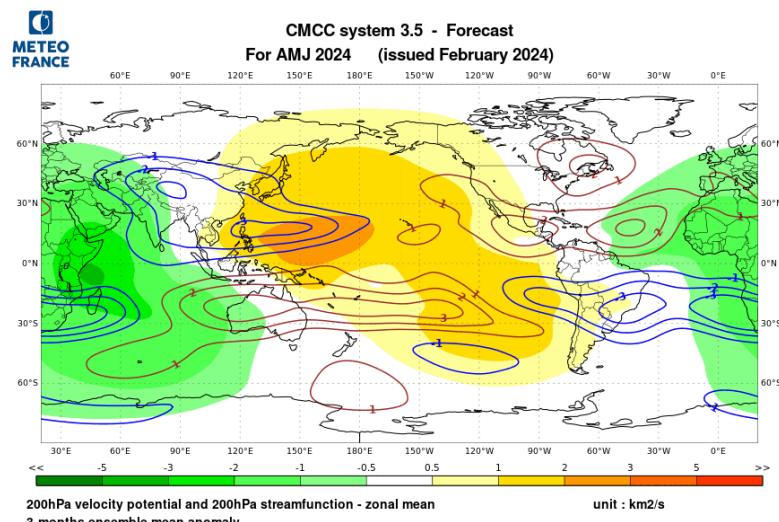
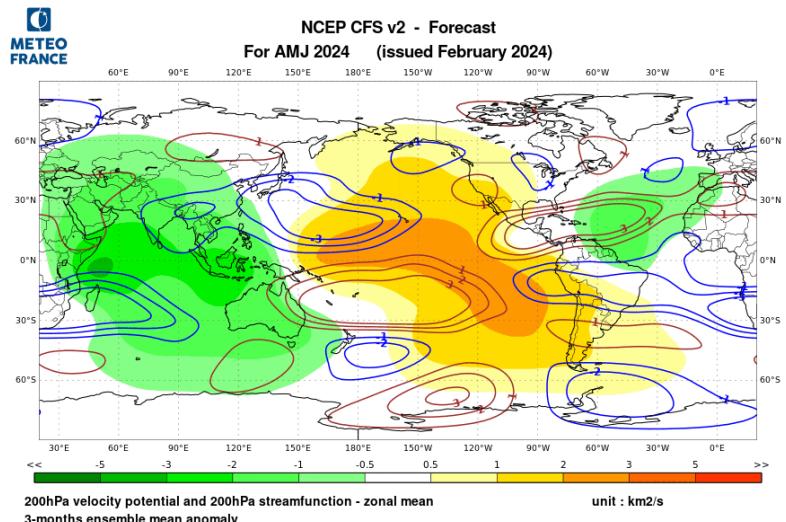
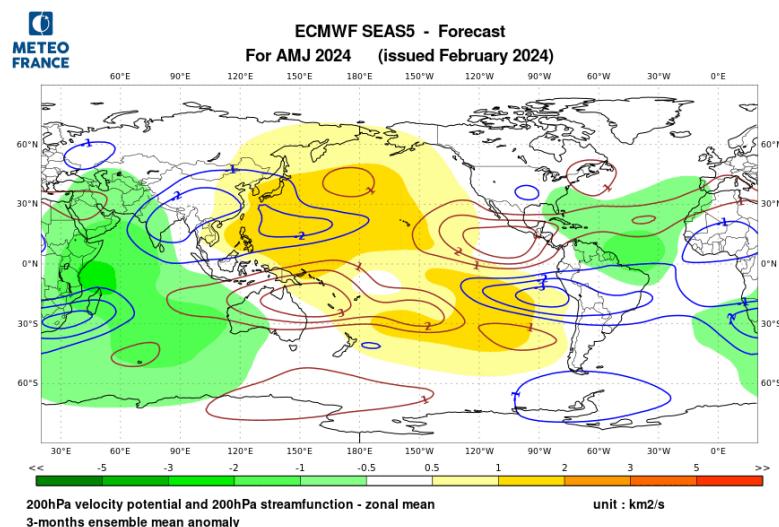
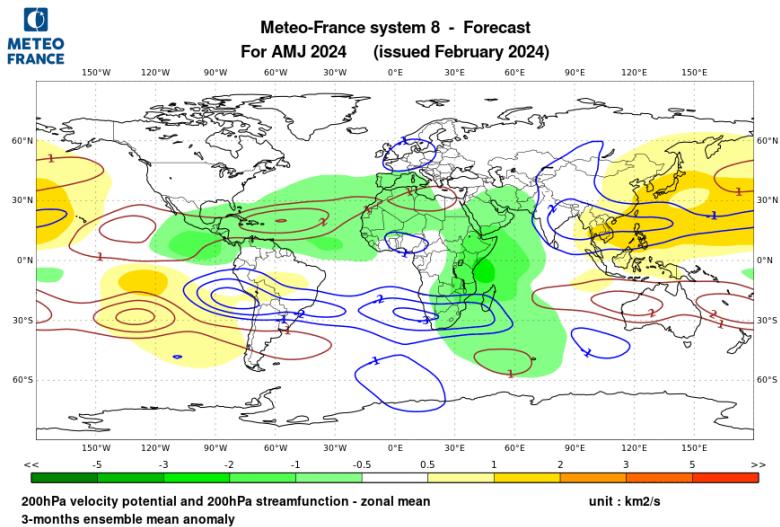


# *Interaction with Tropical Activity - Season 1*





# Interaction with Tropical Activity - Season 2



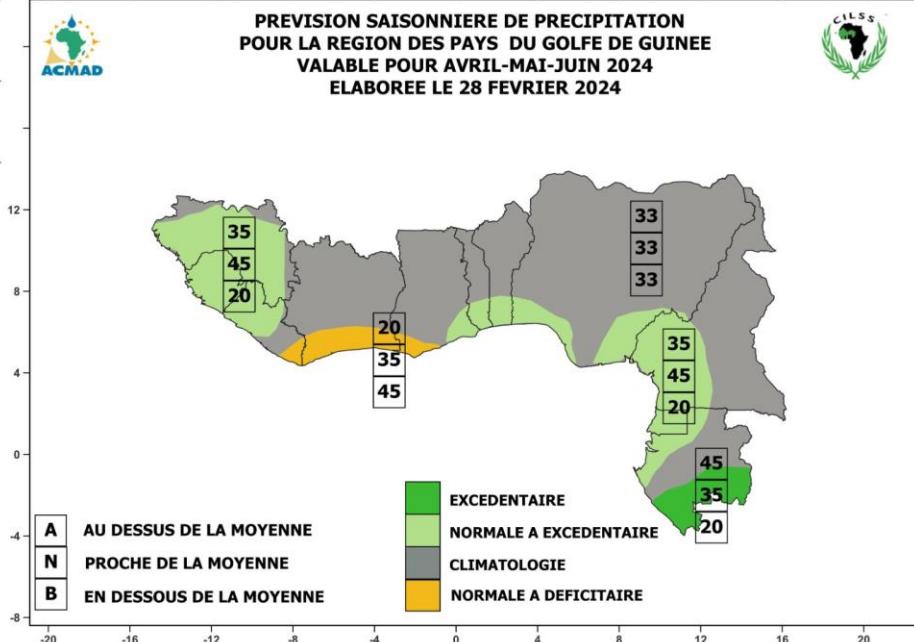
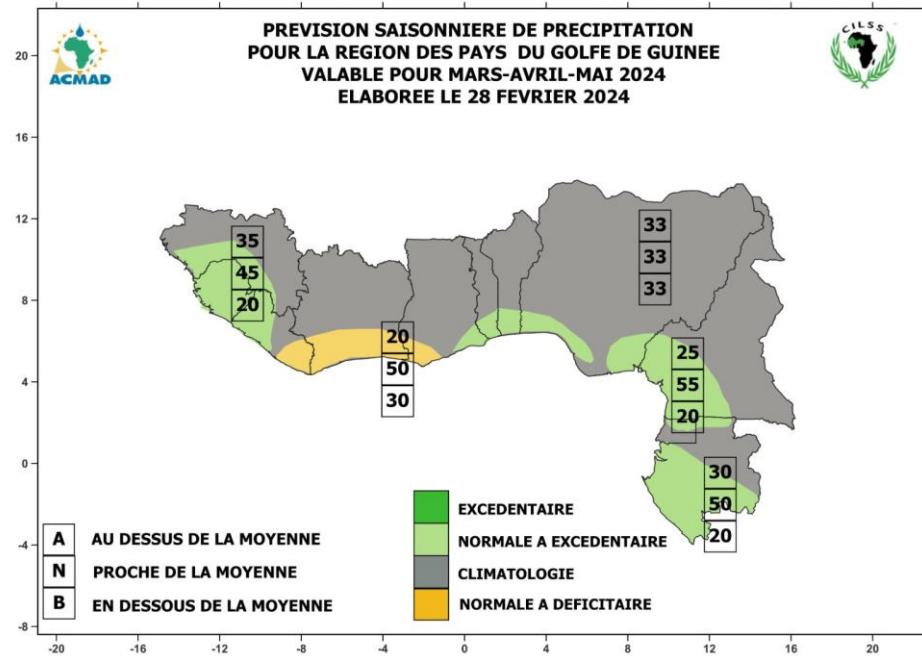


# Consensus Outlook

# SEASONAL PRECIPITATION OUTLOOK FOR MAM & AMJ 2024



PREVISION SAISONNIERE DE PRECIPITATION  
POUR LA REGION DES PAYS DU GOLFE DE GUINEE  
VALABLE POUR MARS-AVRIL-MAI 2024  
ELABOREE LE 28 FEVRIER 2024



# THANK YOU



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