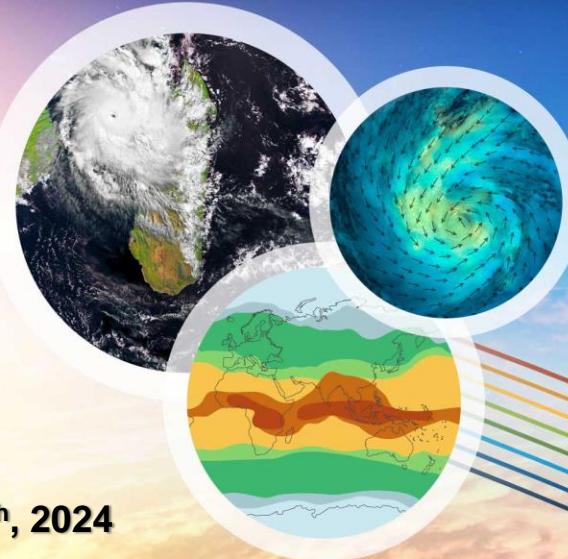




AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT (ACMAD)

<https://rcc.acmad.org/longerangebulletin.php>
<https://rcc.acmad.org>

- CONTINENTAL CLIMATE OUTLOOK
- FOR
- AMJ AND MJJ 2024 SEASONS



Issued on: April 8th, 2024

Validity period: April to July 2024



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



Contributors

Name	Function	Date
Mr. Hubert KABENGELA	Thematic Expert – Data and Climate Monitoring	09-02-2024
Pierre H. KAMSU TAMO, PhD	Senior Expert Forecaster	09-02-2024
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Versions

Version	Date	By	Descriptions
V0	09-02-2024	CDD Climate Experts	First draft for « Briefing », with all experts' contributions
Final	09-02-2024	Dr. Andre KAMGA FOAMOUHOUE	Final Review

OUTLINE



I

*VERIFICATION OF THE DJF 2023-24
SEASON*

II

*Current Situation and
Monitoring*

III

*Outlook for the period from April
to July 2024*



OUTLINE

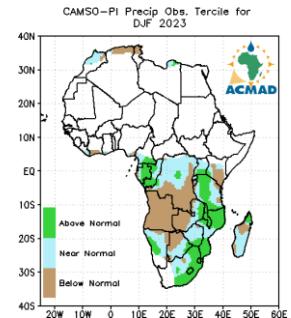
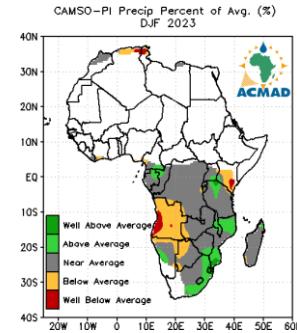
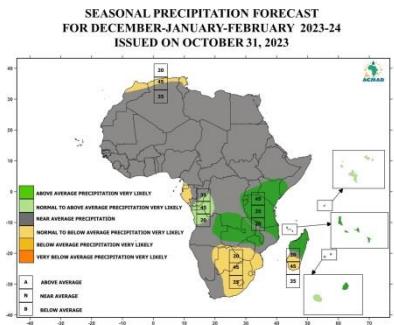


**VERIFICATION OF THE DJF
2023-24 SEASON**

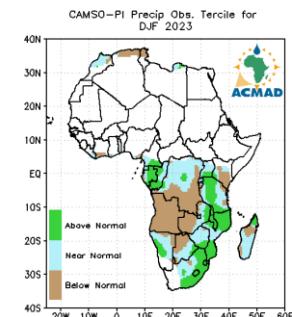
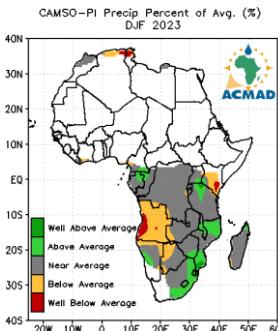
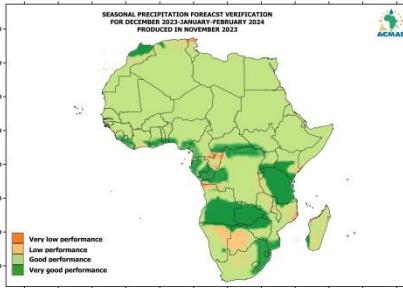
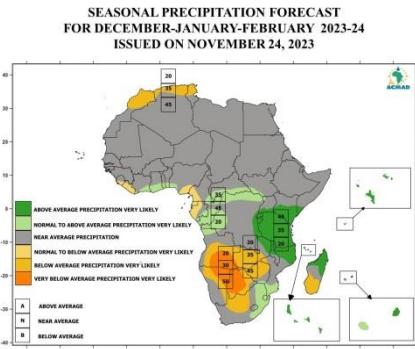


VERIFICATION: CONTINENTAL DJF 2023-24

Initial Condition October 2023



Initial Condition November 2023





OUTLINE



Current Situation and Monitoring

II

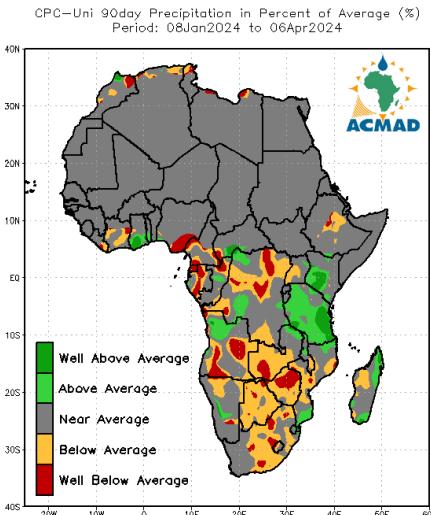
A, U.S. Navy, NGA, GBCP
Analyst / Captain



CURRENT RAINFALL CONDITION

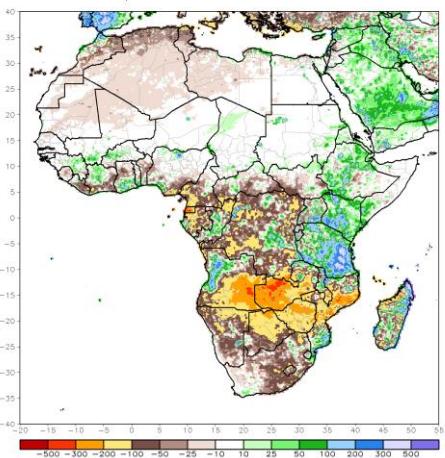
Latest 90-days

08Jan2024-06Apr2024



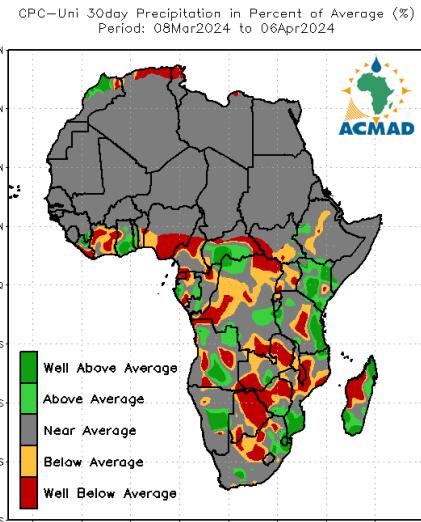
RFE2 90-Day Total Rainfall Anomaly (mm)

Period: 08Jan2024 - 06Apr2024



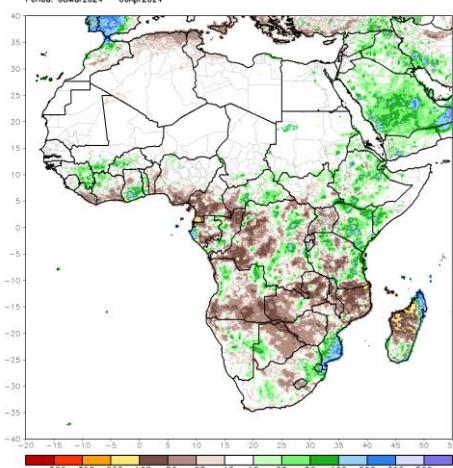
Last 30-days

08Mar-06Apr 2024



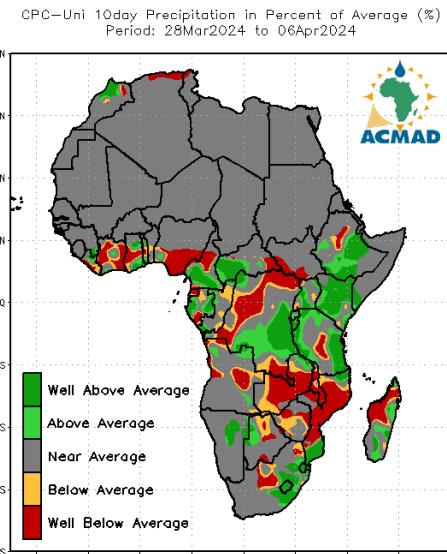
RFE2 30-Day Total Rainfall Anomaly (mm)

Period: 08Mar2024 - 06Apr2024



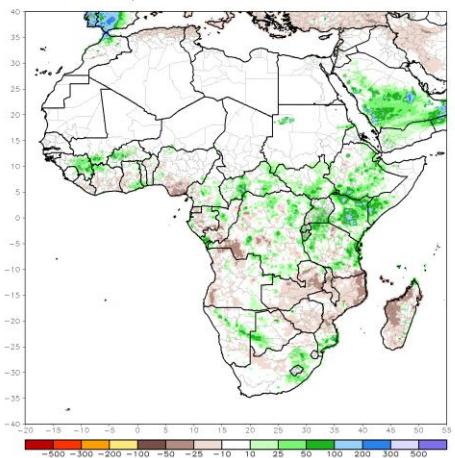
Last 10-days

26Mar-06Apr 2024



RFE2 10-Day Total Rainfall Anomaly (mm)

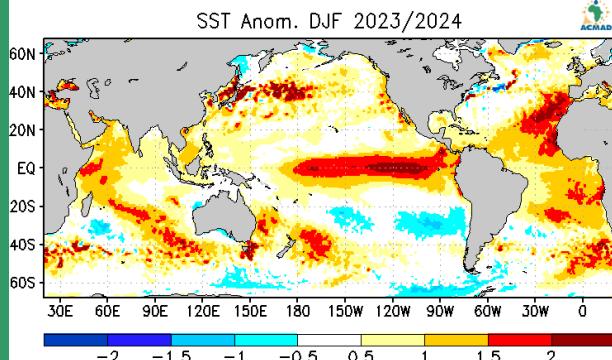
Period: 26Mar2024 - 06Apr2024



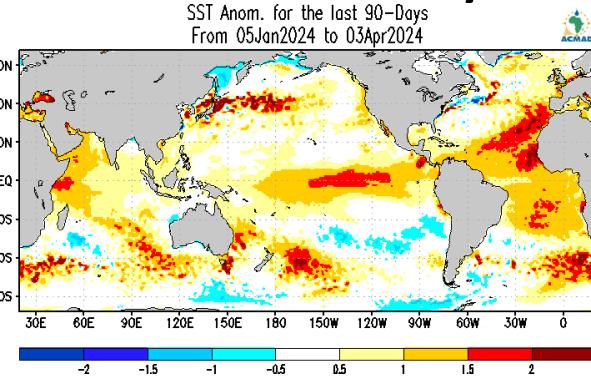


CURRENT SST CONDITION

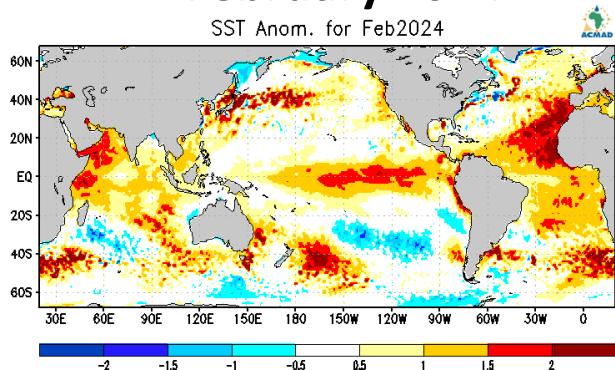
DJF 2023-24



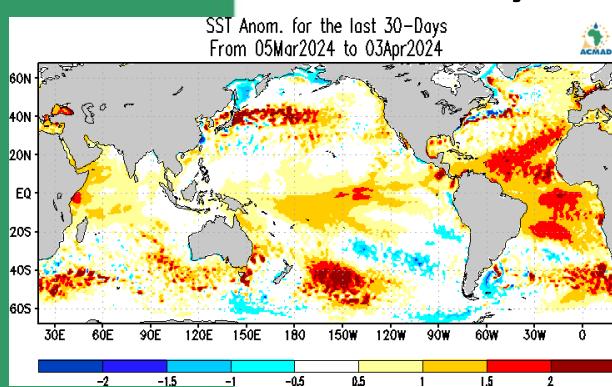
Latest 90-days



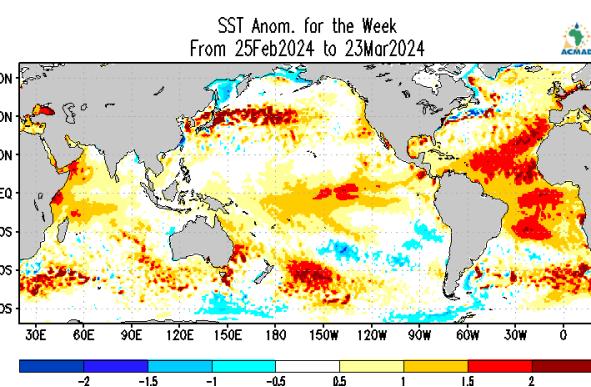
February 2024



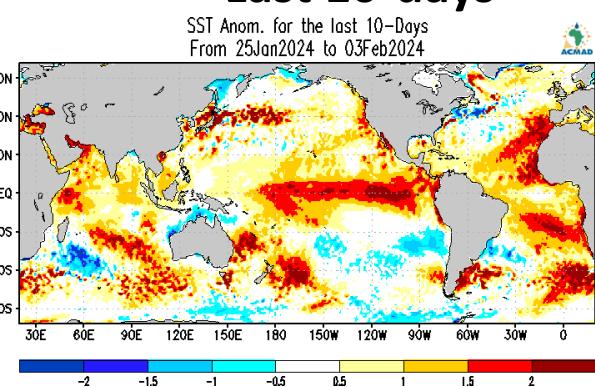
Last 30-days



Latest 4 Weeks



Last 10-days



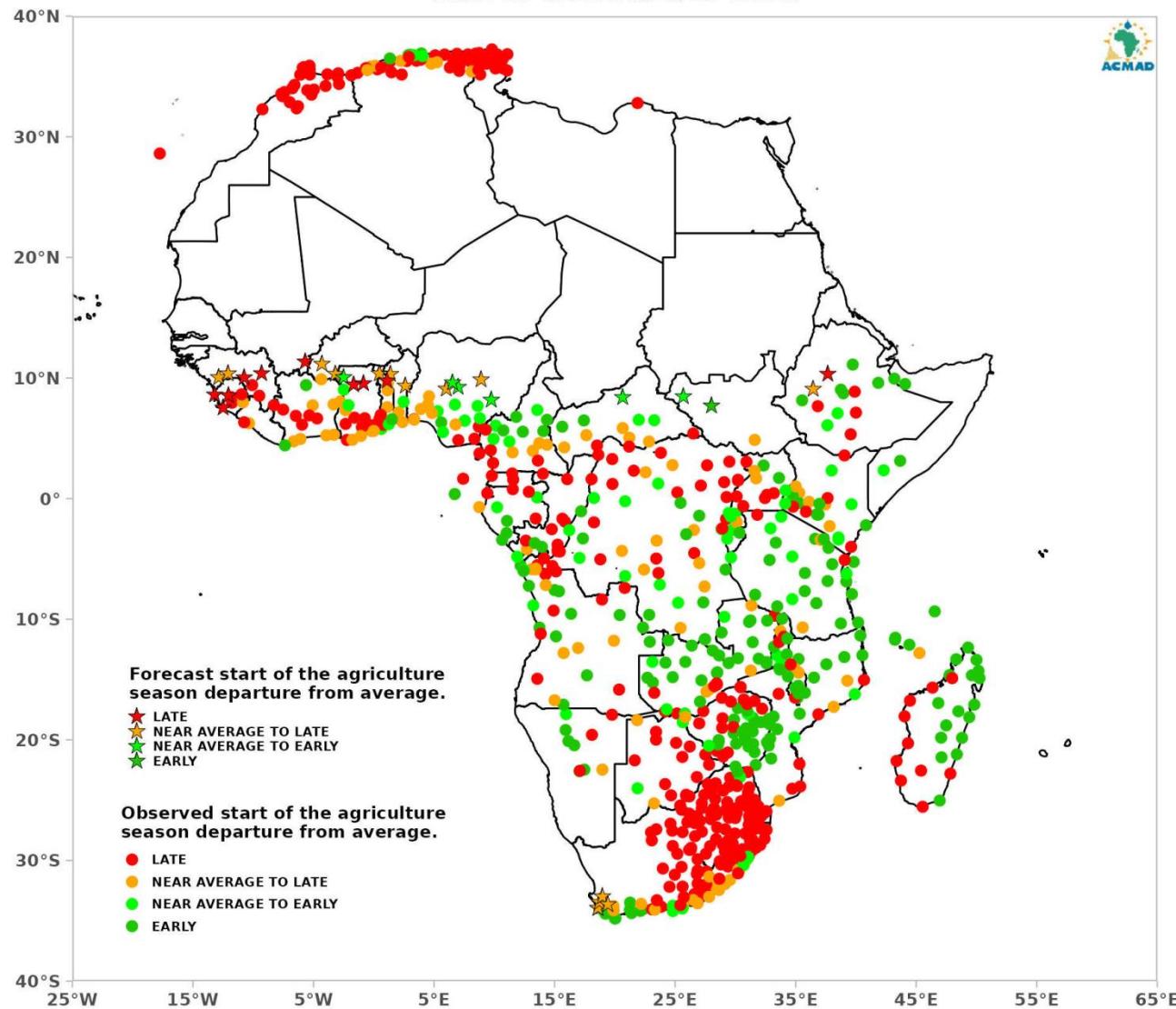
SEASONAL AGRICULTURE

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

MONITORING PERIOD: Jul-2023 to Apr-2024

OUTLOOK VALIDITY PERIOD: From Apr-06-2024 to Apr-20-2024

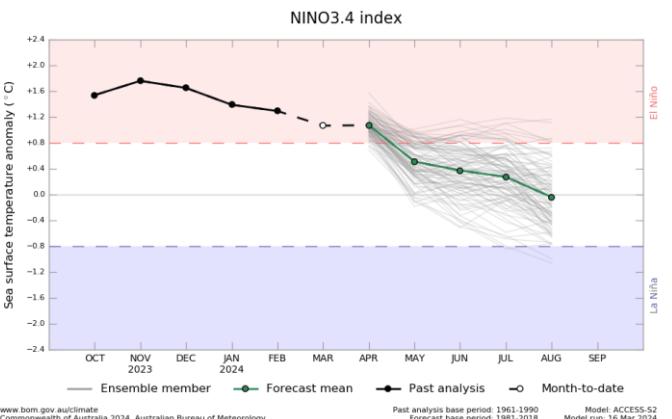
DATE OF ISSUE: APR-06-2024.



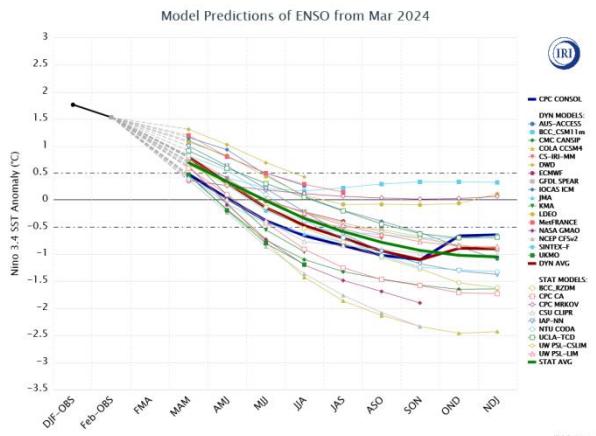


Teleconnections analysis (i.e ENSO) - Index plumes

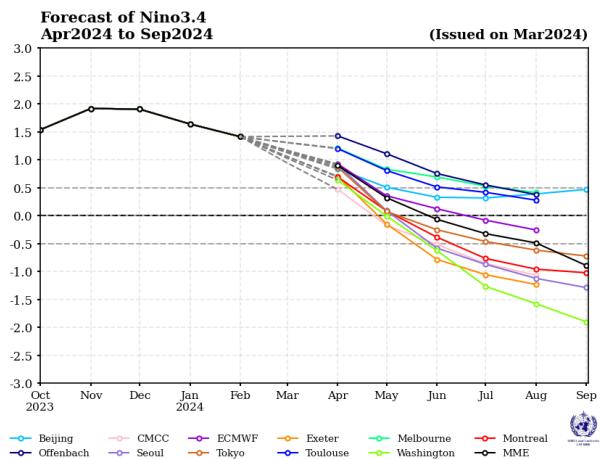
BoM



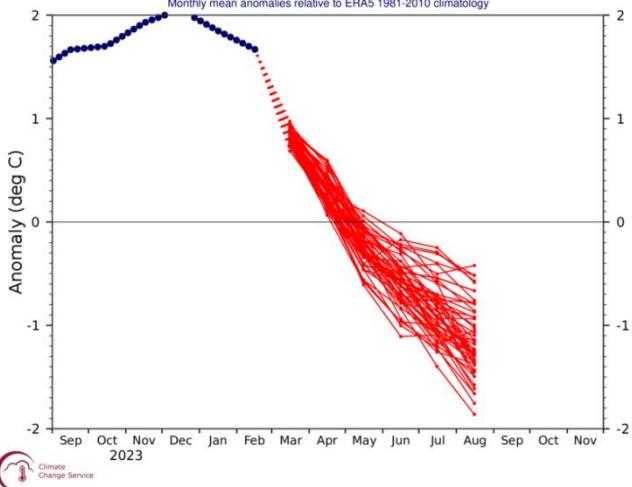
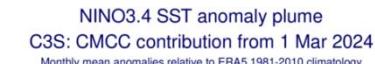
IRI



WMO-LC



C3S



https://www.wmclc.org/seasonIndicesUI/plot_Indices#
[https://climate.copernicus.eu/charts/c3s_seasonal/c3s_seasonal_plume_mm?fa
cets=undefined&time=2022070100,0,2022070100&type=plume&area=nino34](https://climate.copernicus.eu/charts/c3s_seasonal/c3s_seasonal_plume_mm?facets=undefined&time=2022070100,0,2022070100&type=plume&area=nino34)

Moderate to Weak El Niño



AMJ SST

Precip

SST
MJJ

Precip

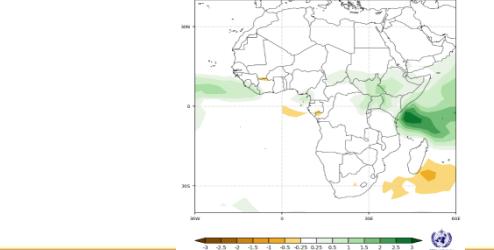
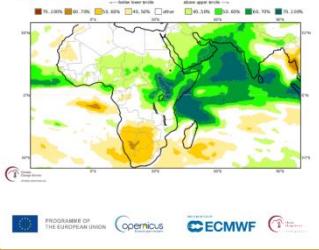
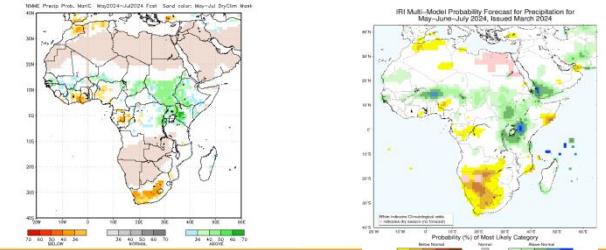
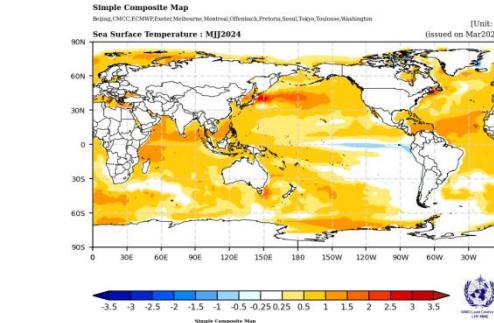
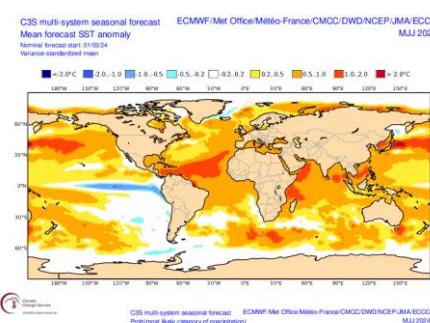
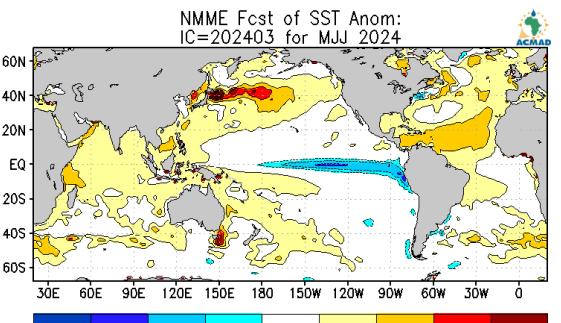
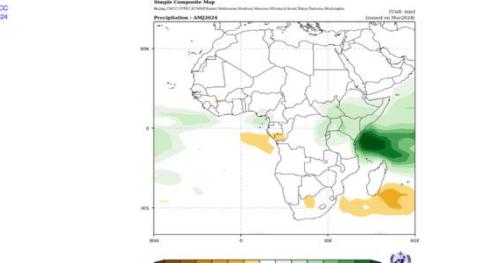
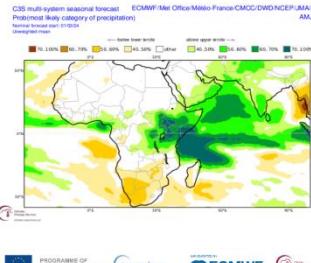
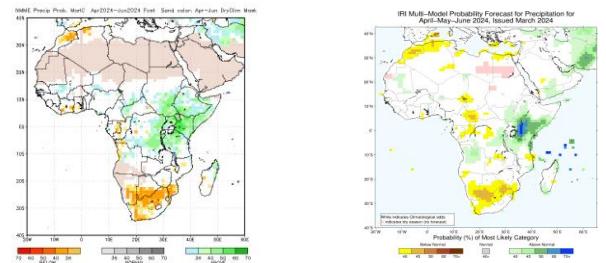
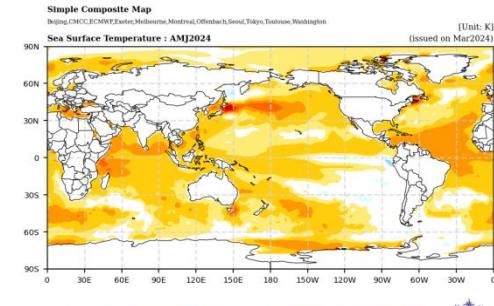
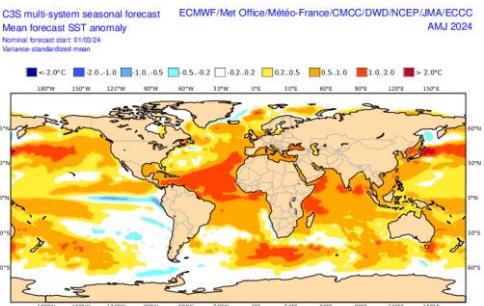
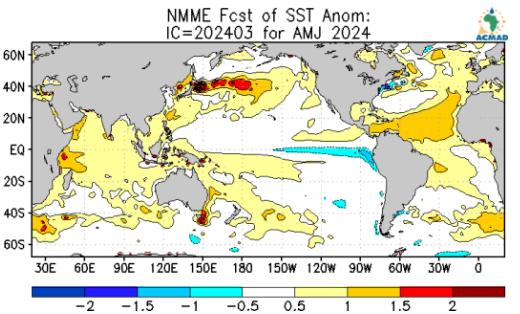
24/11/10

Multimodel Ensemble Analysis (SSTs and Precip)

NMME

C3S

WLC





Analogue Years

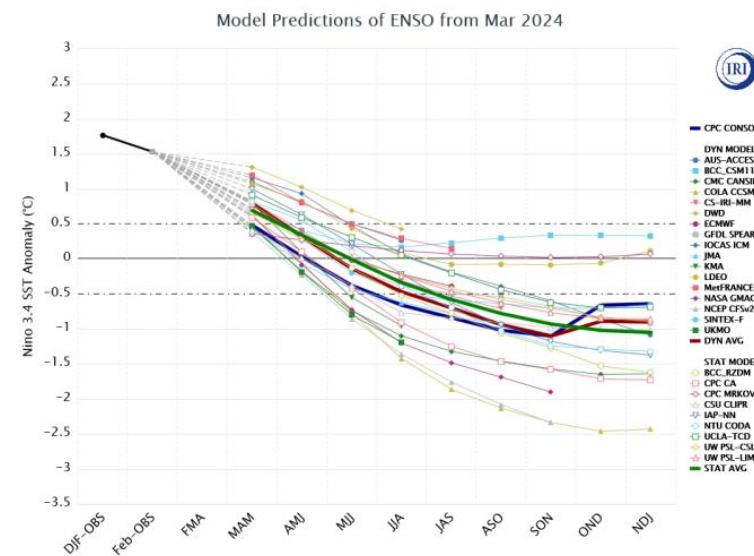
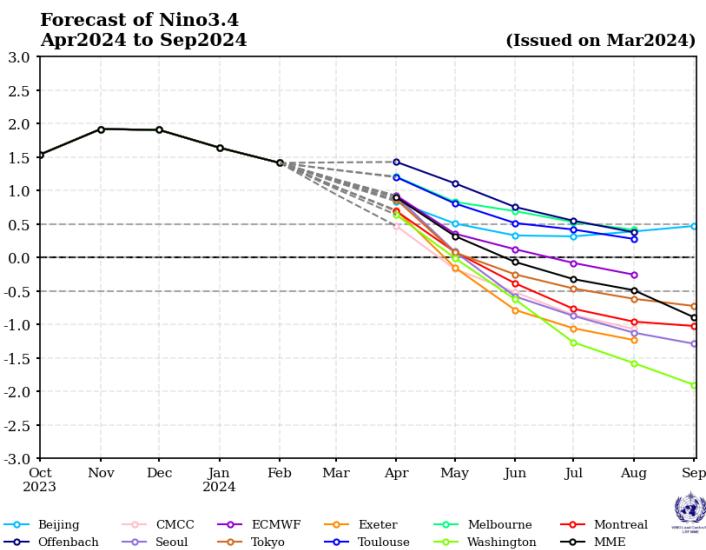
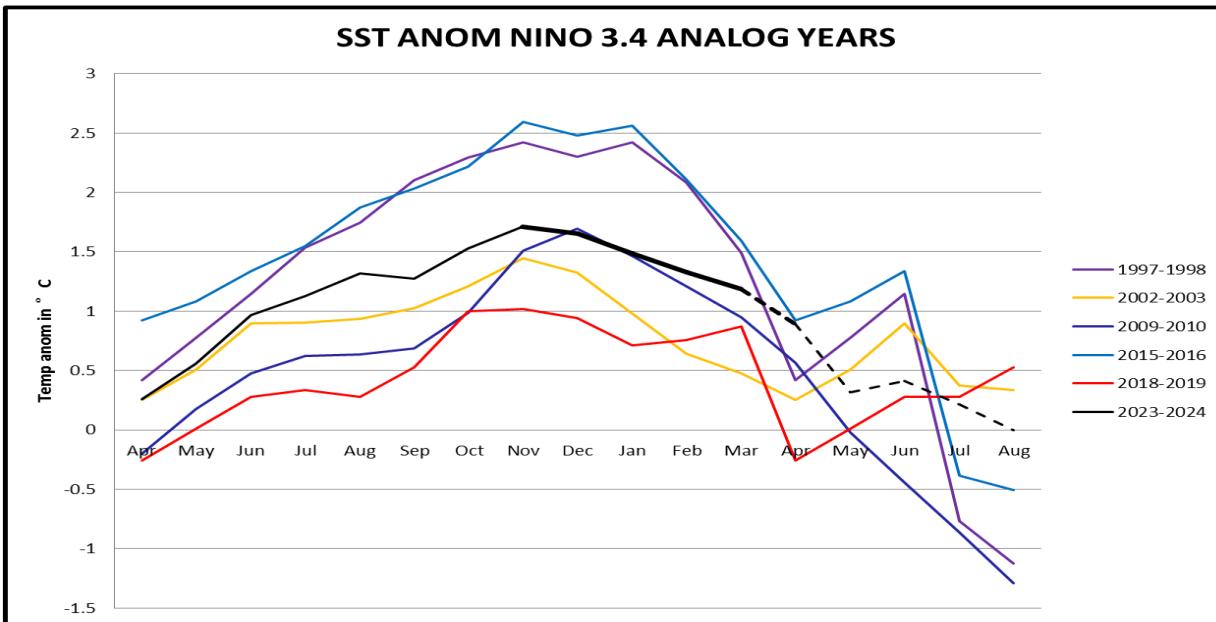
Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2000	-1.7	-1.4	-1.1	-0.8	-0.7	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7
2001	-0.7	-0.5	-0.4	-0.3	-0.3	-0.1	-0.1	-0.1	-0.2	-0.3	-0.3	-0.3
2002	-0.1	0	0.1	0.2	0.4	0.7	0.8	0.9	1	1.2	1.3	1.1
2003	0.9	0.6	0.4	0	-0.3	-0.2	0.1	0.2	0.3	0.3	0.4	0.4
2004	0.4	0.3	0.2	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	0.1	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	-0.8	-0.6	-0.4	-0.2	-0.2	-0.4	-0.6	-0.7
2009	-0.8	-0.8	-0.6	-0.3	0	0.3	0.5	0.6	0.7	1	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	-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	-1.1	-1
2012	-0.9	-0.7	-0.6	-0.5	-0.3	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	0.2	0.2	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
2018	-0.9	-0.9	-0.7	-0.5	-0.2	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	-0.9	-0.8	-0.7	-0.5	-0.4	-0.4	-0.5	-0.7	-0.8	-1	-1
2022	-1	-0.9	-1	-1.1	-1	-0.9	-0.8	-0.9	-1	-1	-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
2024	1.8	1.5	1.0	0.8	0.3	-0.1	-0.4	-0.7	-0.9	-1.0	-1.0	-1.0

Blue – La Nina

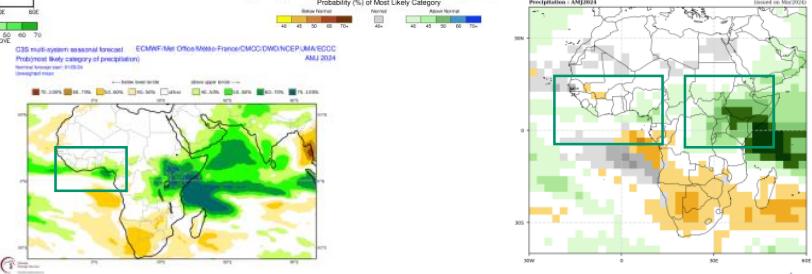
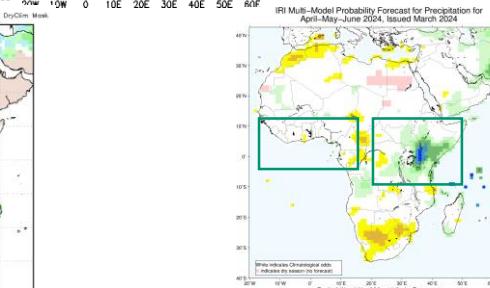
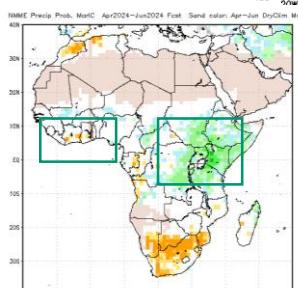
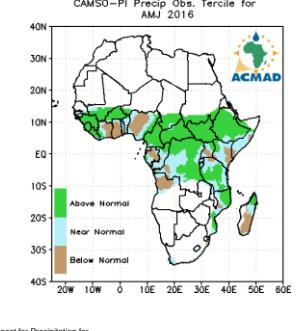
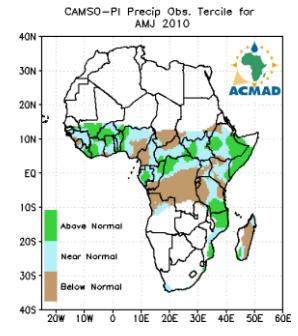
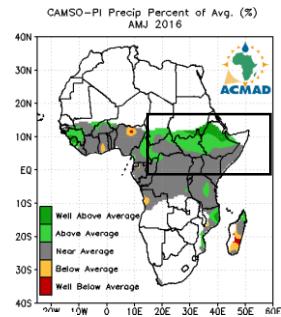
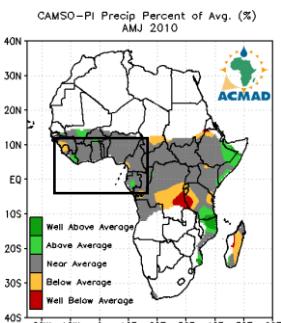
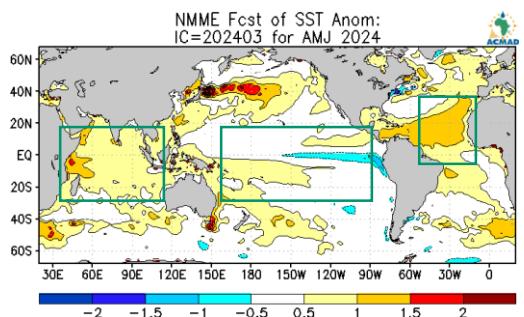
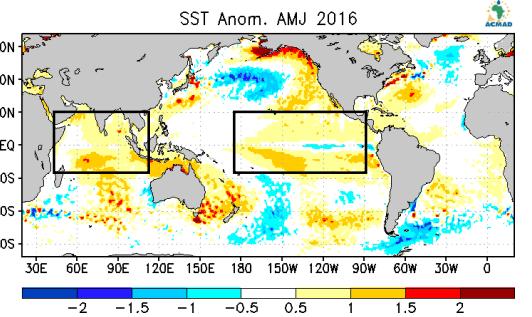
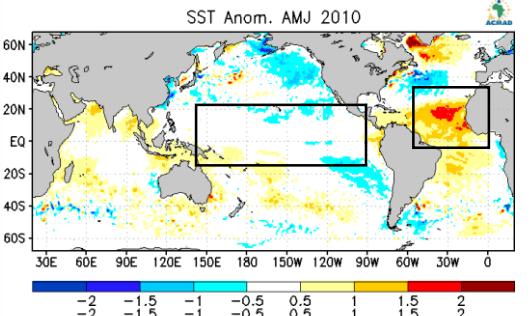
Red– El Nino



Analogue Analysis SST NINO 3.4 basin

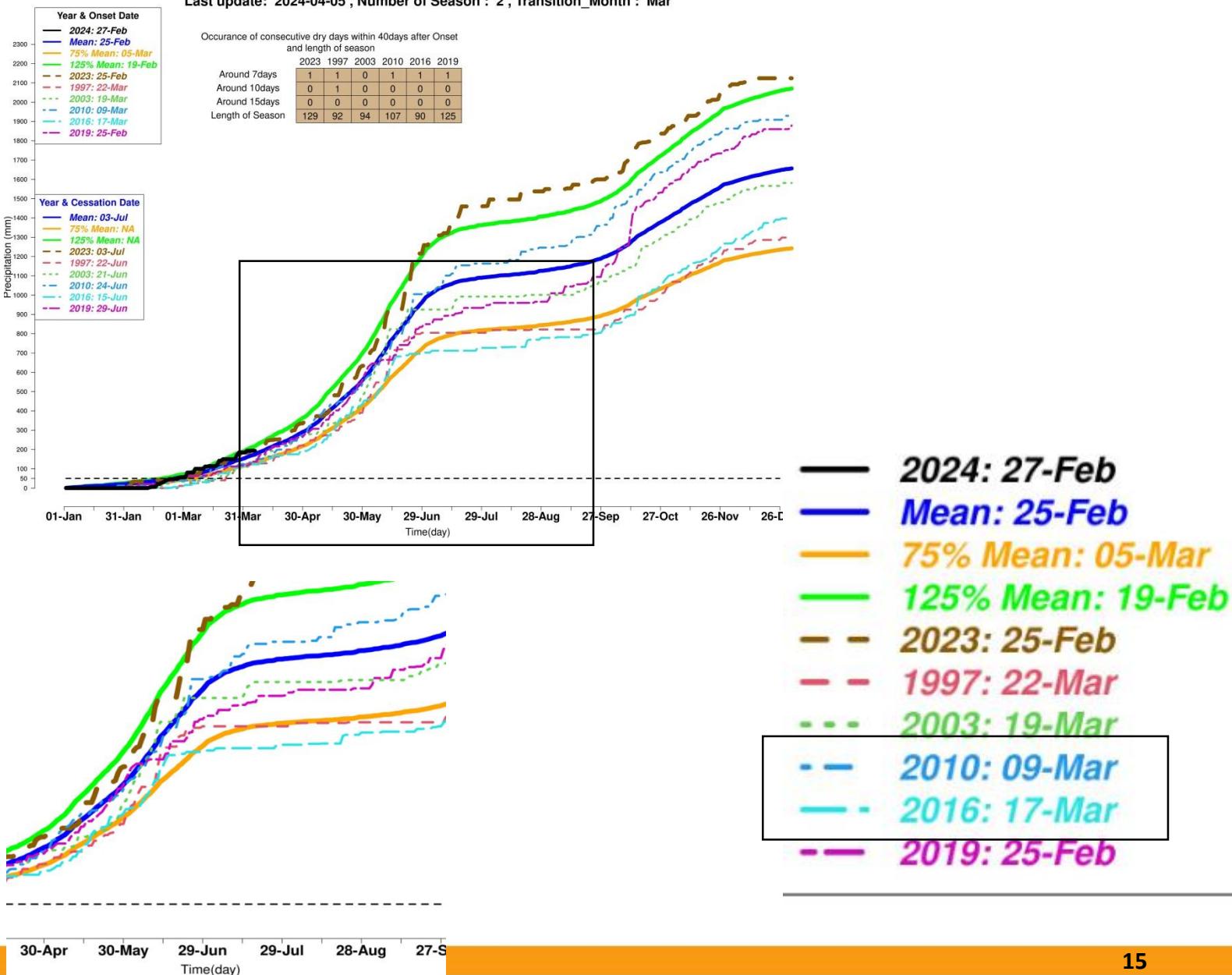


Analogue Analysis AMJJ

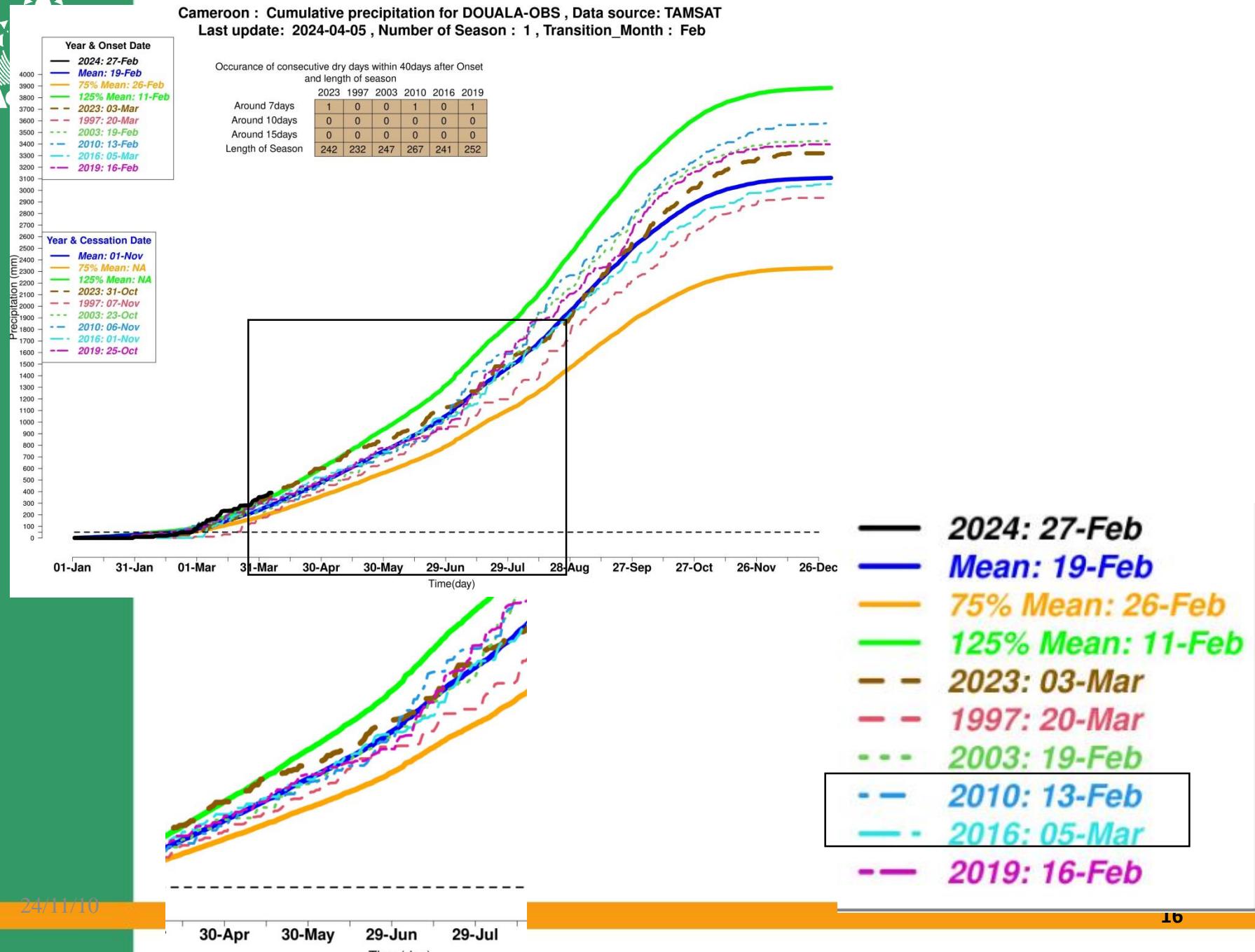


Analog with rainfall profil

CotedIvoire : Cumulative precipitation for ABIDJAN , Data source: TAMSAT
 Last update: 2024-04-05 , Number of Season : 2 , Transition_Month : Mar



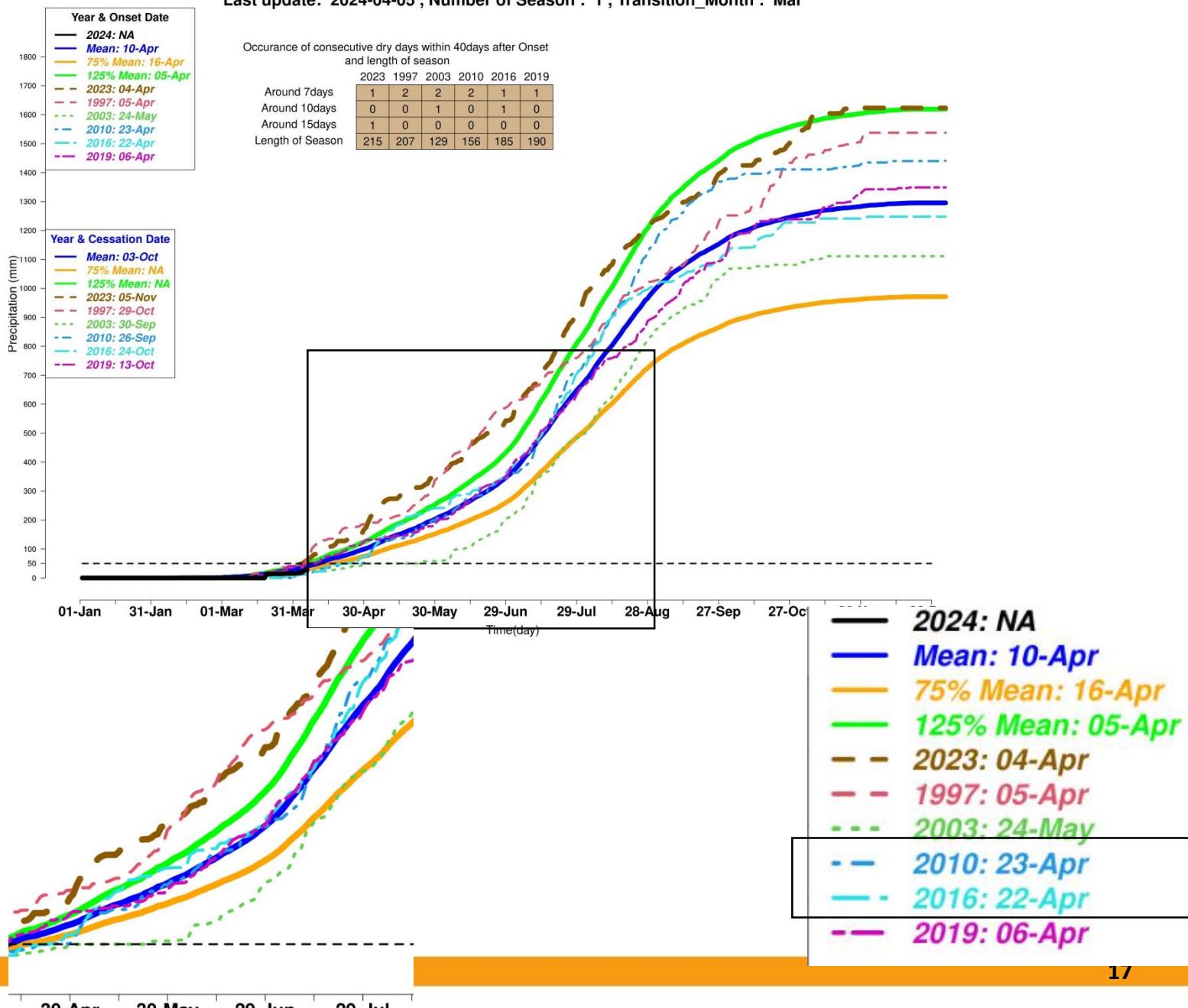
Analog with rainfall profil



Analog with rainfall profil



Ethiopia : Cumulative precipitation for DEBREMARCOS , Data source: TAMSAT
Last update: 2024-04-05 , Number of Season : 1 , Transition_Month : Mar



OUTLINE



III

*Outlook for the period from April
to July 2024*

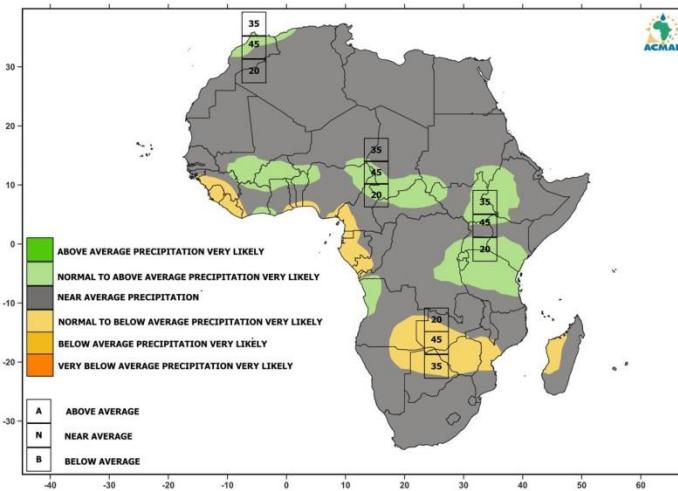
A: U.S. Navy, NGA, GBCP
Analyst / Captain

SEASONAL PRECIPITATION OUTLOOK FOR AMJ & MJJ 2024



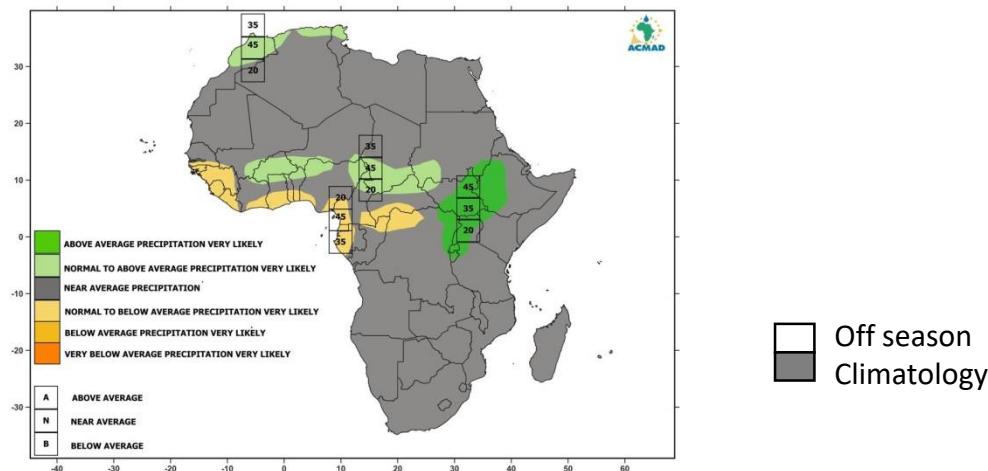
AMJ

SEASONAL PRECIPITATION FORECAST
FOR APRIL-MAY-JUNE 2024
ISSUED ON MARCH 29, 2024



MJJ

SEASONAL PRECIPITATION FORECAST
FOR MAY-JUNE-JULY 2024
ISSUED ON MARCH 29, 2024



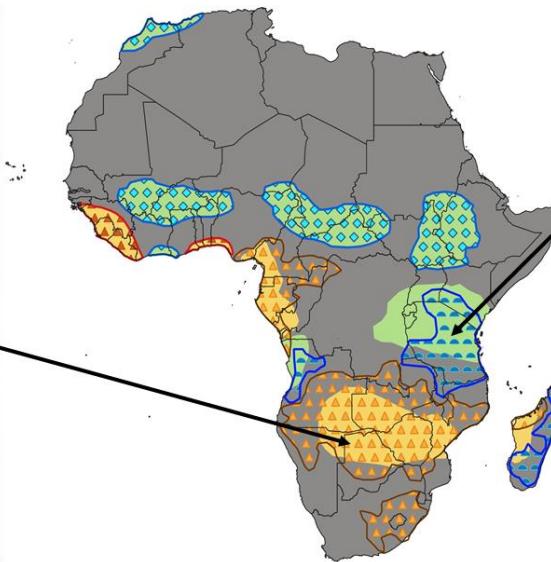
POLICY BRIEF FOR AMJJ 2024



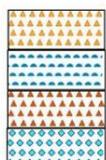
CONTINENTAL
BRIEF FOR POLICY AND DECISION MAKERS BASED ON SIGNIFICANT WEATHER AND CLIMATE EVENTS UPDATE.
VALID FOR: APRIL TO JULY 2024



CLIMATE ANOMALIES
Drier than average season very likely Prolonged drought with reported persistent impacts
HAZARDS
Weak to Moderate drought, dry spells, near average to late onset very likely.
POTENTIAL IMPACTS
Moisture stress, decreased river discharge, reduced rain-fed crop yield prospect, degradation of pastures and high food prices.
MEASURES
Develop and implement policy to support drought tolerant and short cycle crops, soil and water conservation practice, maximize full irrigation farming. Use watershed based in-situ water harvesting structures Develop and Implement policy in support of weather based insurance and dam management



LEGEND



- Observed drought hazard
- Observed flood hazard
- Drought hazard outlook
- Flood hazard outlook

CLIMATE ANOMALIES
Wetter than average season very likely Heavy rainfall with reported flooding events
HAZARDS
Heavy rainfall events may lead to flash flood, riverine flooding, landslides and soil erosion. High chance of lightning, hail formation and stormy weather are expected
POTENTIAL IMPACTS
Waterlogging, pest and diseases Infestation, Outbreak of water borne diseases damage to infrastructures(dams, reservoirs, bridges, roads...) Displacement of people due to floods.
MEASURES
Select excess-water tolerant crops, wide tree planting campaigns Develop new and rehabilitate the existing drainage structure, Update and implement flood contingency plans improve water management in reservoirs and dams



THANK YOU



FITEENTH AFRICAN CONTINENTAL CLIMATE OUTLOOK FORUM (ACCOF-15)



**THEME : “THE RECENT CLIMATE EVENTS ,
DURING THE EL NIÑO EVOLUTION
OVER THE REGION”**

DATE : 09TH FEBRUARY, 2024

TIME : 8:00 AM TO 10:30 AM (GMT)

VENUE : ONLINE

TARGET SEASON: February to May(FMAM) 2024



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