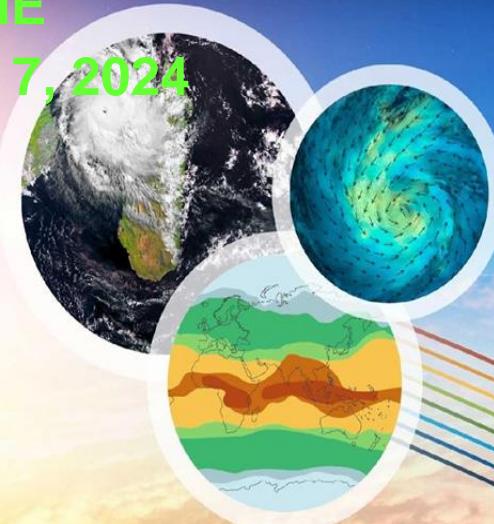
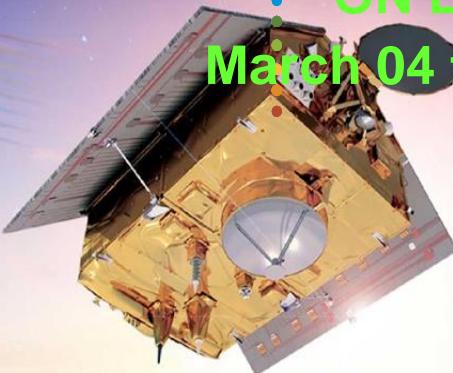


18th Regional Climate Outlook Forum over Central Africa Region PRESAC -18

ON LINE

March 04 to 7, 2024



Prepared By: ACMAD Team



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

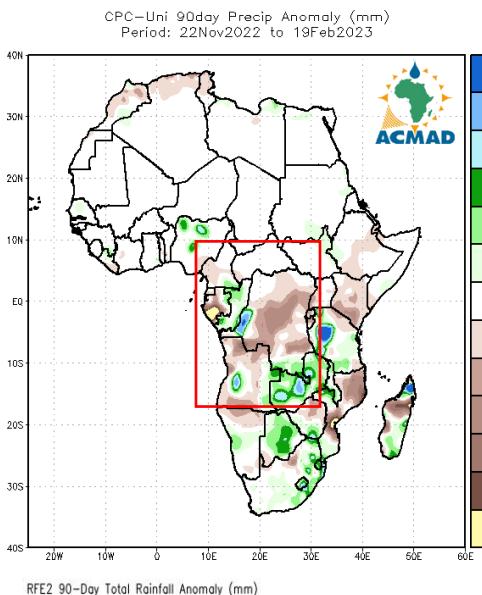


Time series analysis of Climate variability (seasonal and annual cycles, interannual/interdecadal variability) and trends

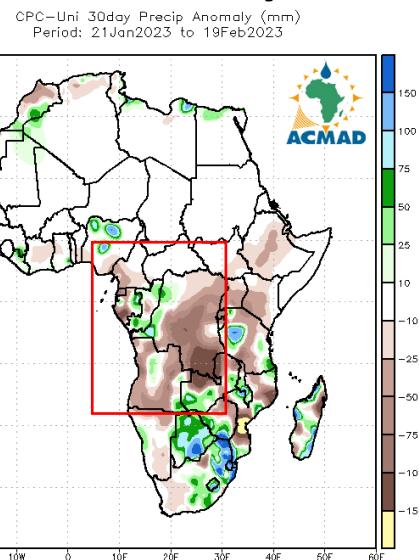


Time series analysis of Climate variability and trends(Persistence forecast)

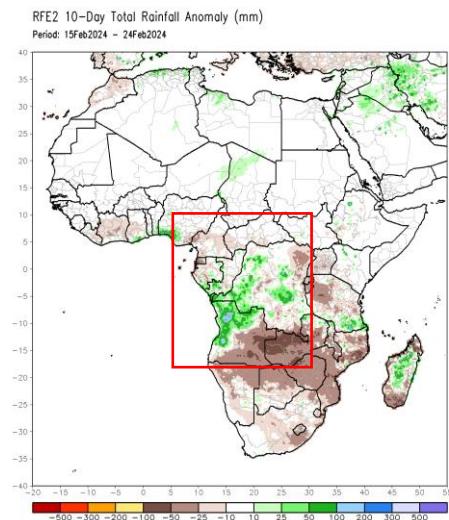
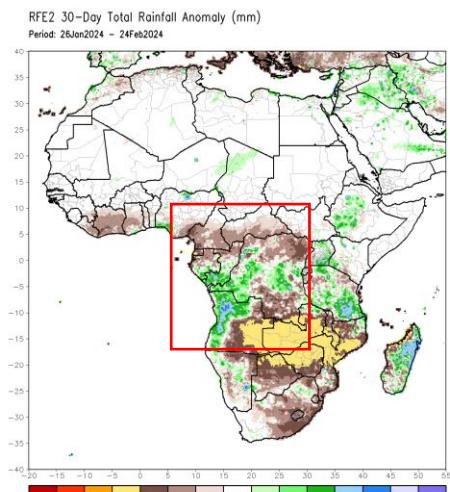
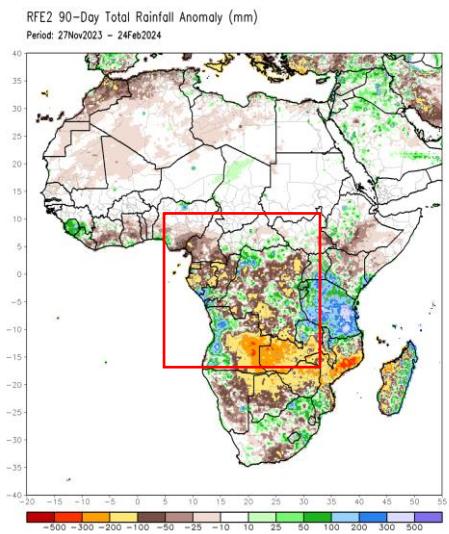
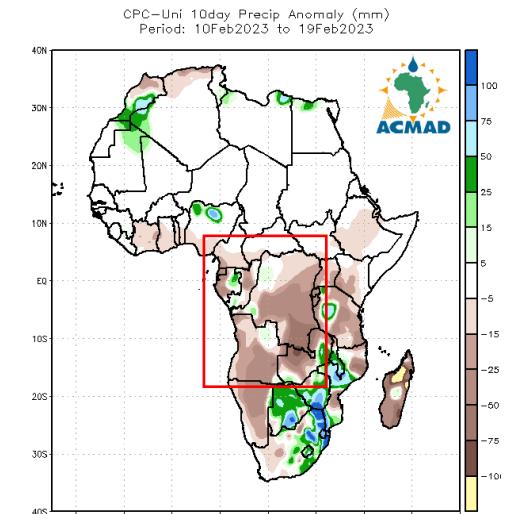
Latest 90-days



Last 30-days

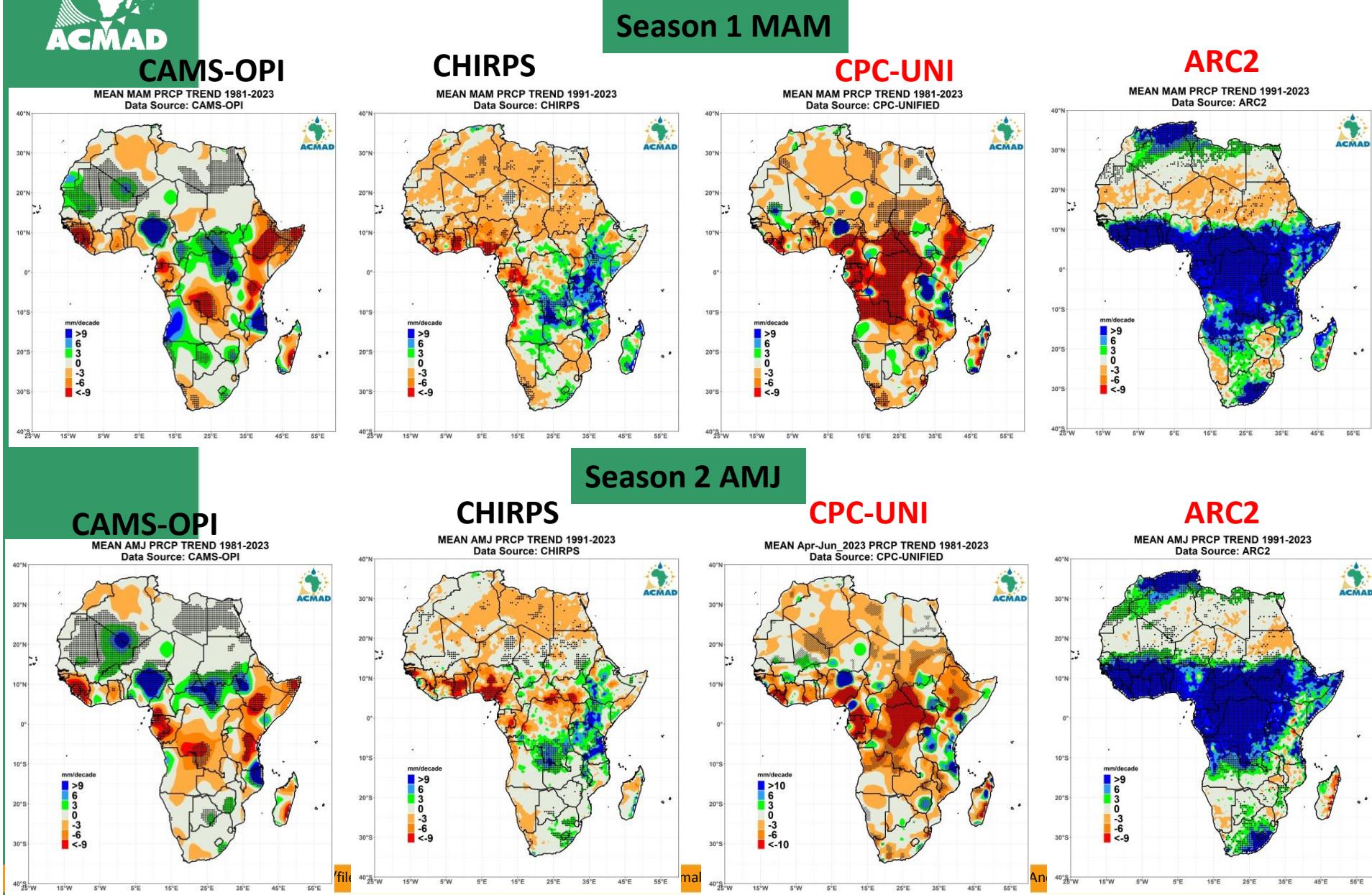


Last 10-days





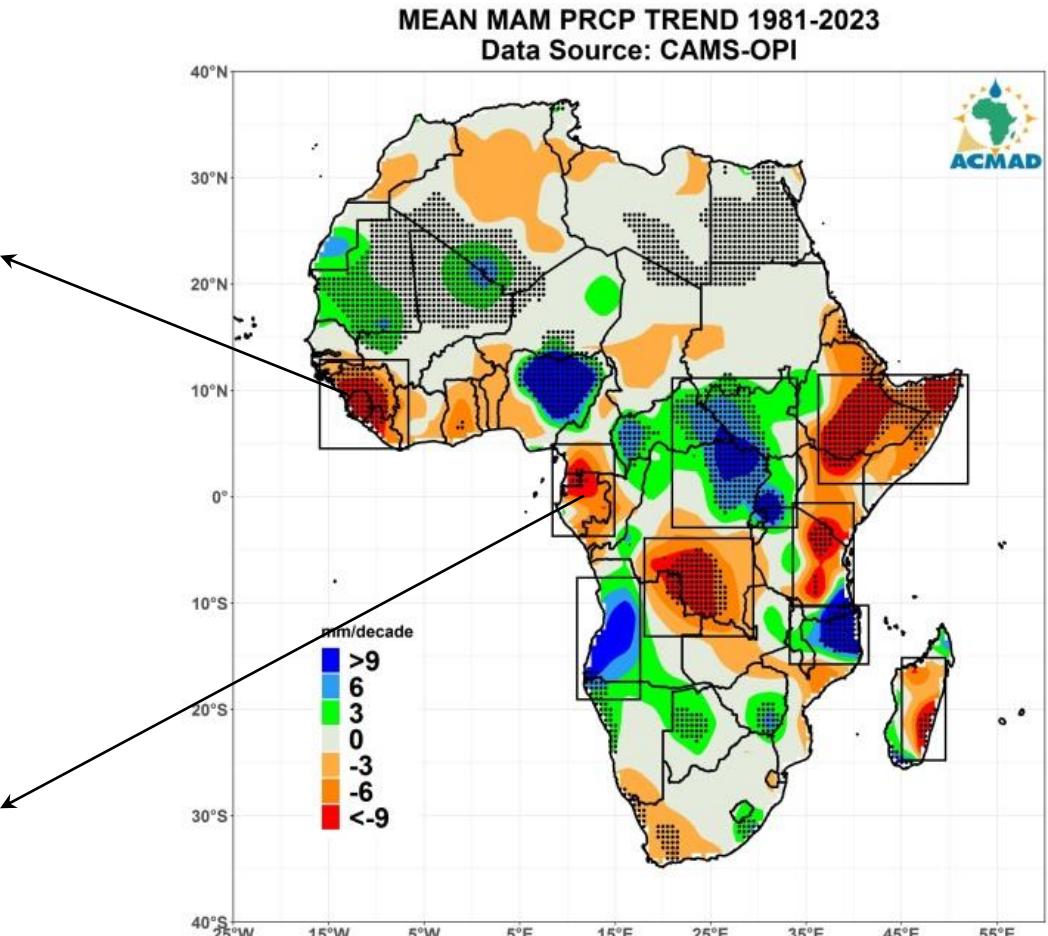
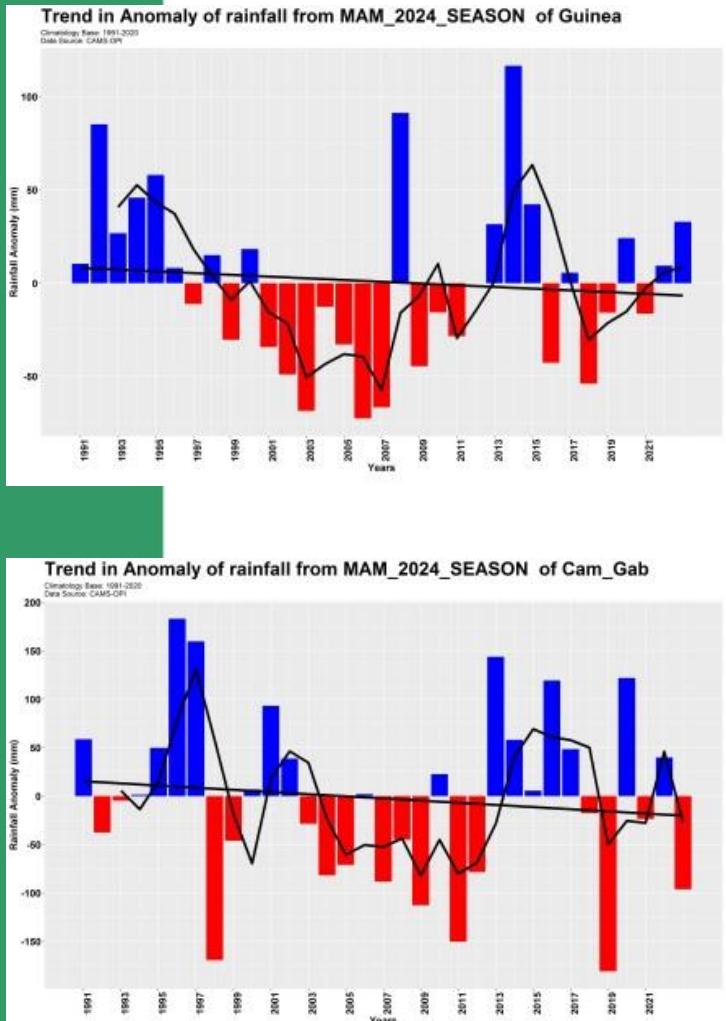
Time series analysis of Climate variability (seasonal and annual cycles, interannual/interdecadal variability) and trends (1/4)





Time series analysis of Climate variability (seasonal and annual cycles, interannual/interdecadal variability) and trends (1/5)

MAM Season 1





II. IDENTIFICATION OF ANALOG YEARS BASED ON SSTA OVER THE ENSO REGION

Forecasted SST evolution

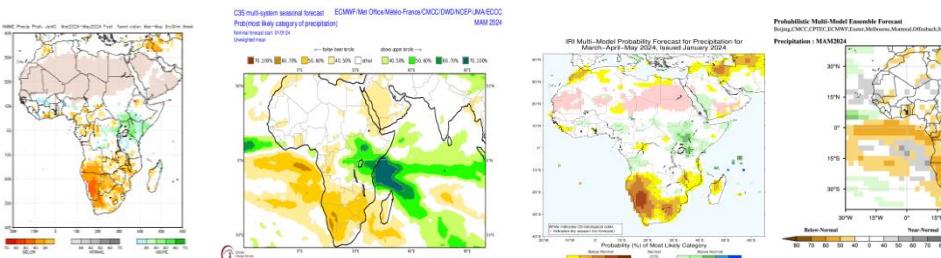
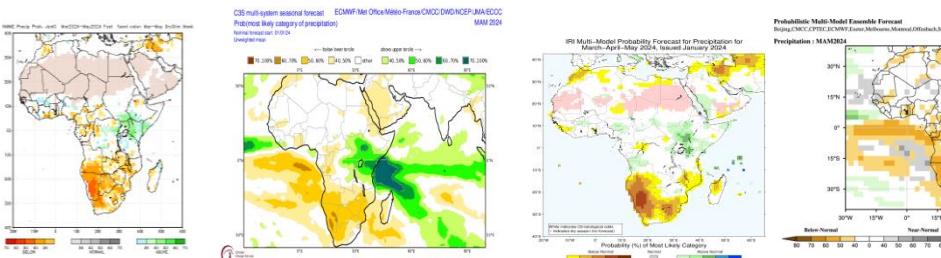
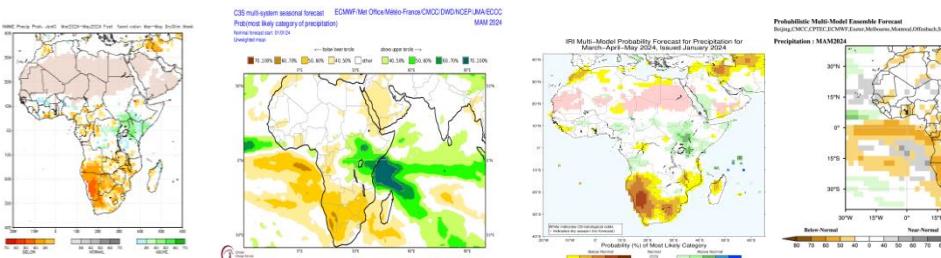
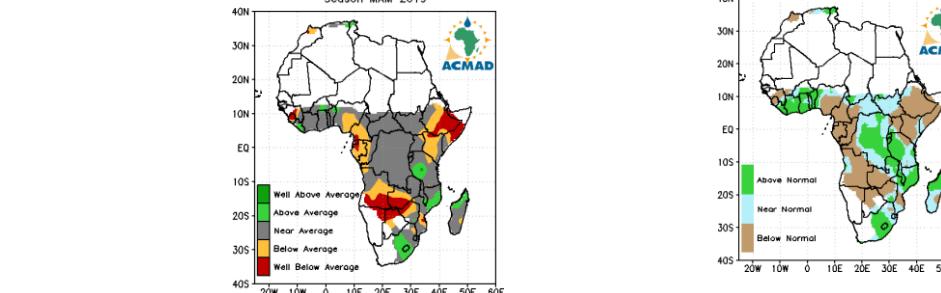
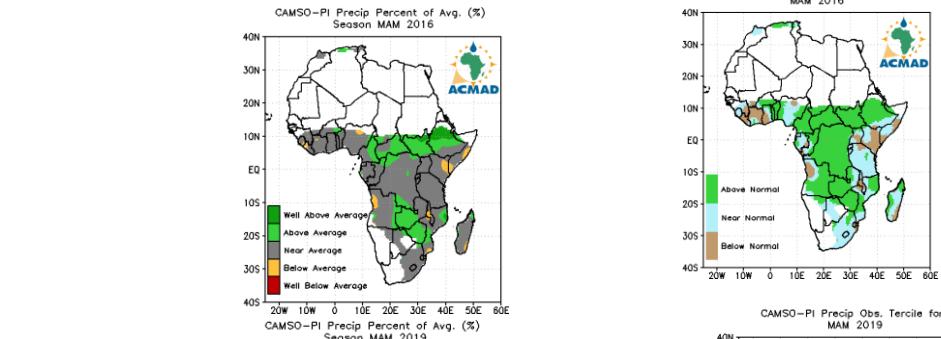
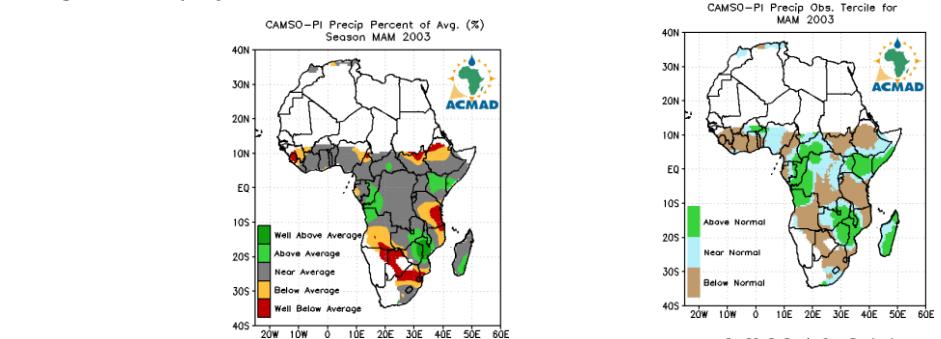
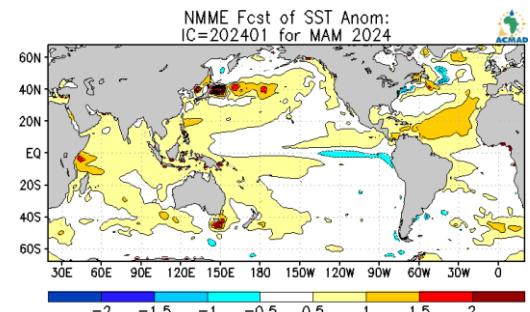
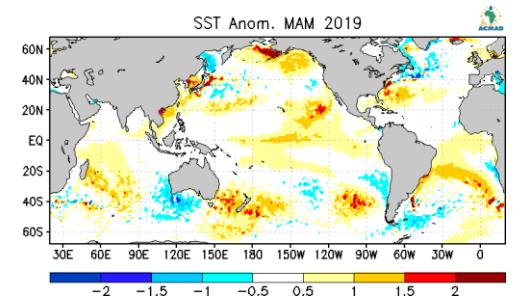
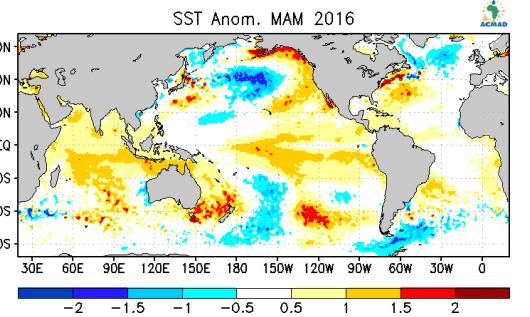
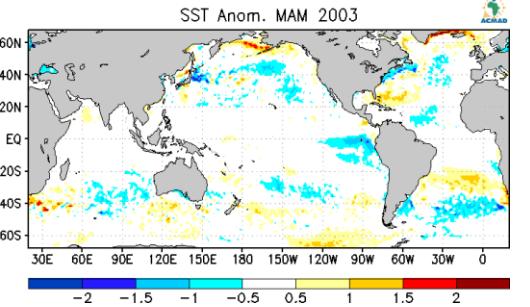
Seasons (2024 – 2024)

Model	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON
Average, <i>Dynamical models</i>	1.576	1.178	0.720	0.285	-0.194	-0.617	-0.813	-0.762	-0.827
Average, <i>Statistical models</i>	1.432	1.094	0.728	0.392	0.074	-0.223	-0.465	-0.627	-0.750
Average, <i>All models</i>	1.526	1.149	0.722	0.322	-0.085	-0.430	-0.639	-0.686	-0.783

Forecasted evolution of SSTs during the coming target seasons indicate a transition from an ENSO positive (El Nino) phase to an ENSO Neutral phase during the coming target seasons



Analogue Analysis (3) - Identical Years- MAM



*Identification of wet and Dry and
Analysis of the drivers related patterns*



Script Composite SST wet and dry year

Composite SST

Composite for 1999, 2002 and 2010 MAM season

expert

SOURCES .NOAA .NCEP .EMC .CMB .GLOBAL .Reyn_SmithOlv2 .monthly .sst
T (Mar 1999) (May 1999) RANGEEDGES

[T]average

SOURCES .NOAA .NCEP .EMC .CMB .GLOBAL .Reyn_SmithOlv2 .monthly .sst
T (Mar 2002) (May 2002) RANGEEDGES

[T]average

SOURCES .NOAA .NCEP .EMC .CMB .GLOBAL .Reyn_SmithOlv2 .monthly .sst
T (Mar 2010) (May 2010) RANGEEDGES

[T]average

add

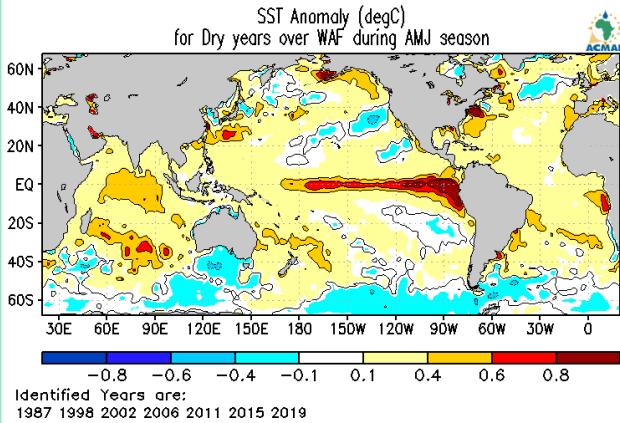
3 div



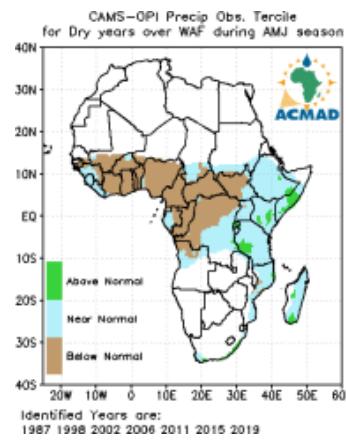
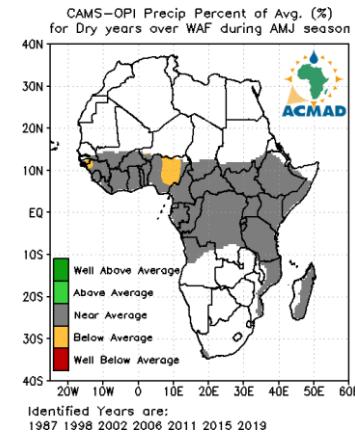
Composite analysis (Dry Years) – SSTs & Rainfall (AMJ)

DRY

SST Composite



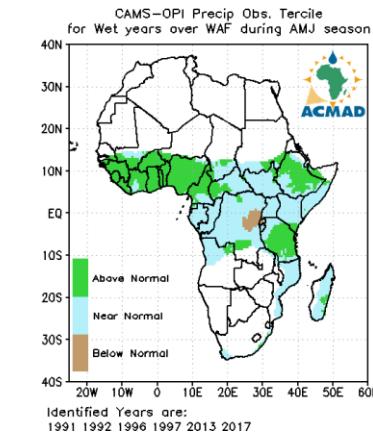
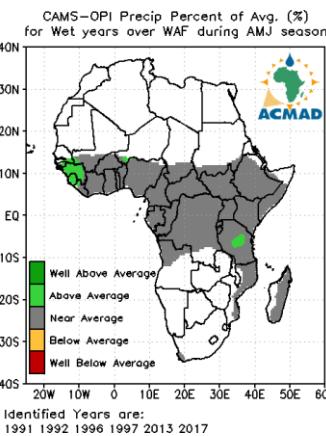
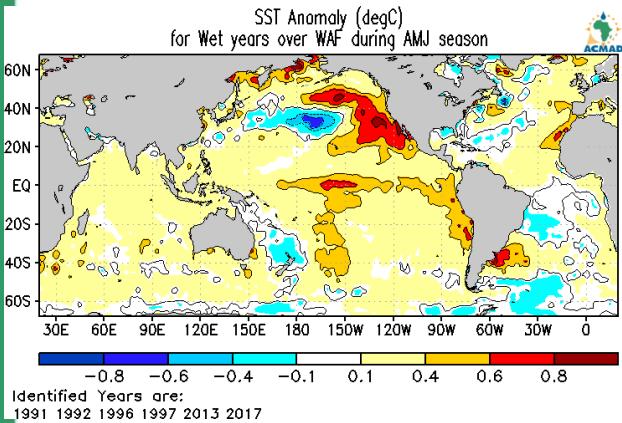
Rainfall Composite



WAF
1987
1998
2002
2006
2011
2015
2019

WET

SST Anomaly (degC) for Wet years over WAF during AMJ season



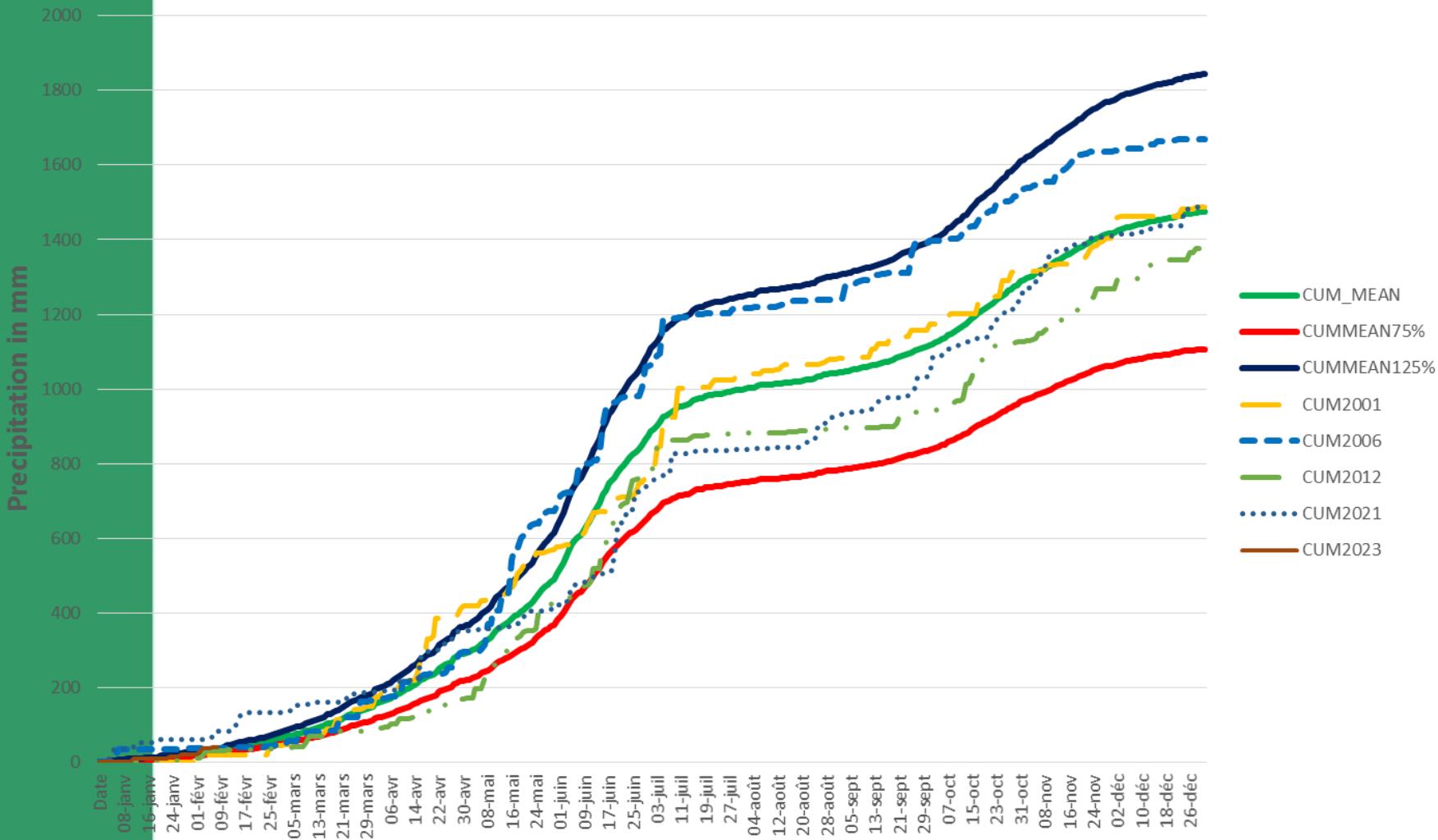
WAF
1991
1992
1996
1997
2013
2017



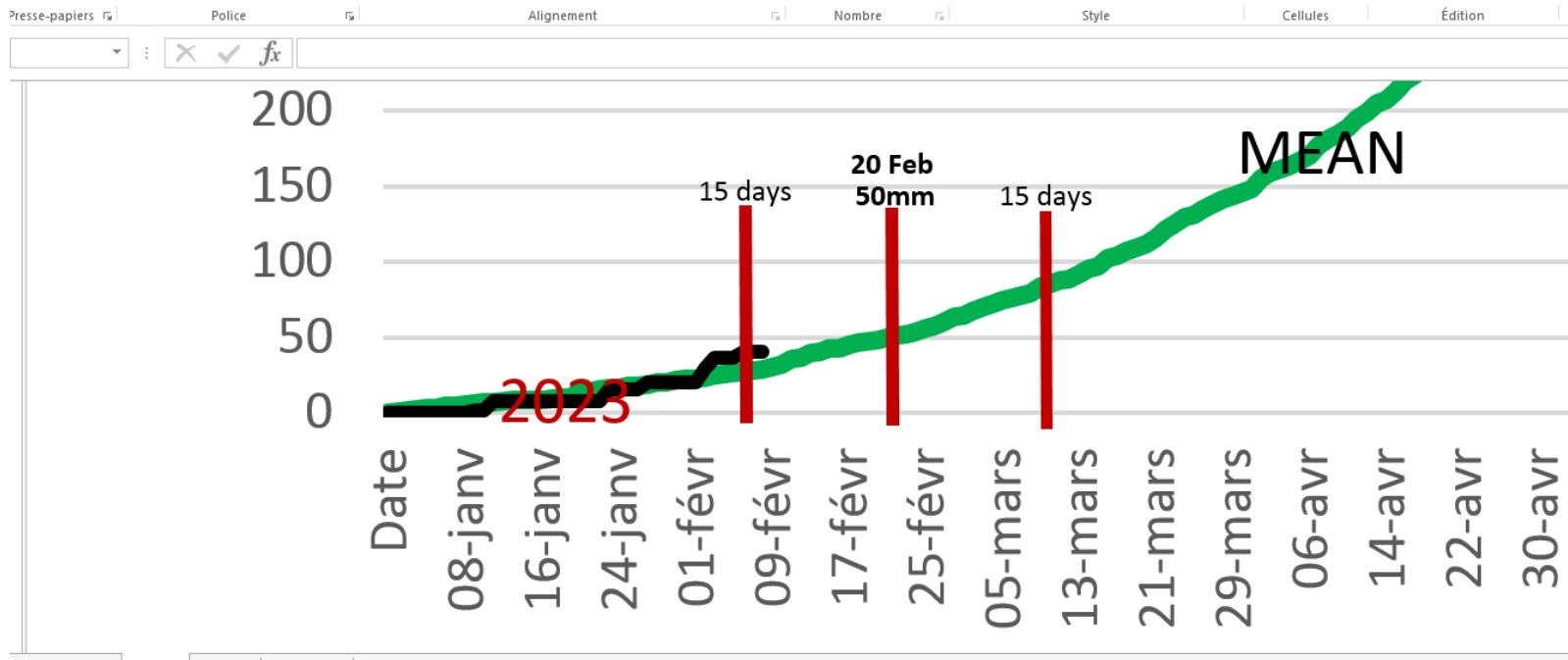
V. ANALYSIS OF CUMULATIVE ESTIMATED PRECIPITATION

Daily rainfall profil

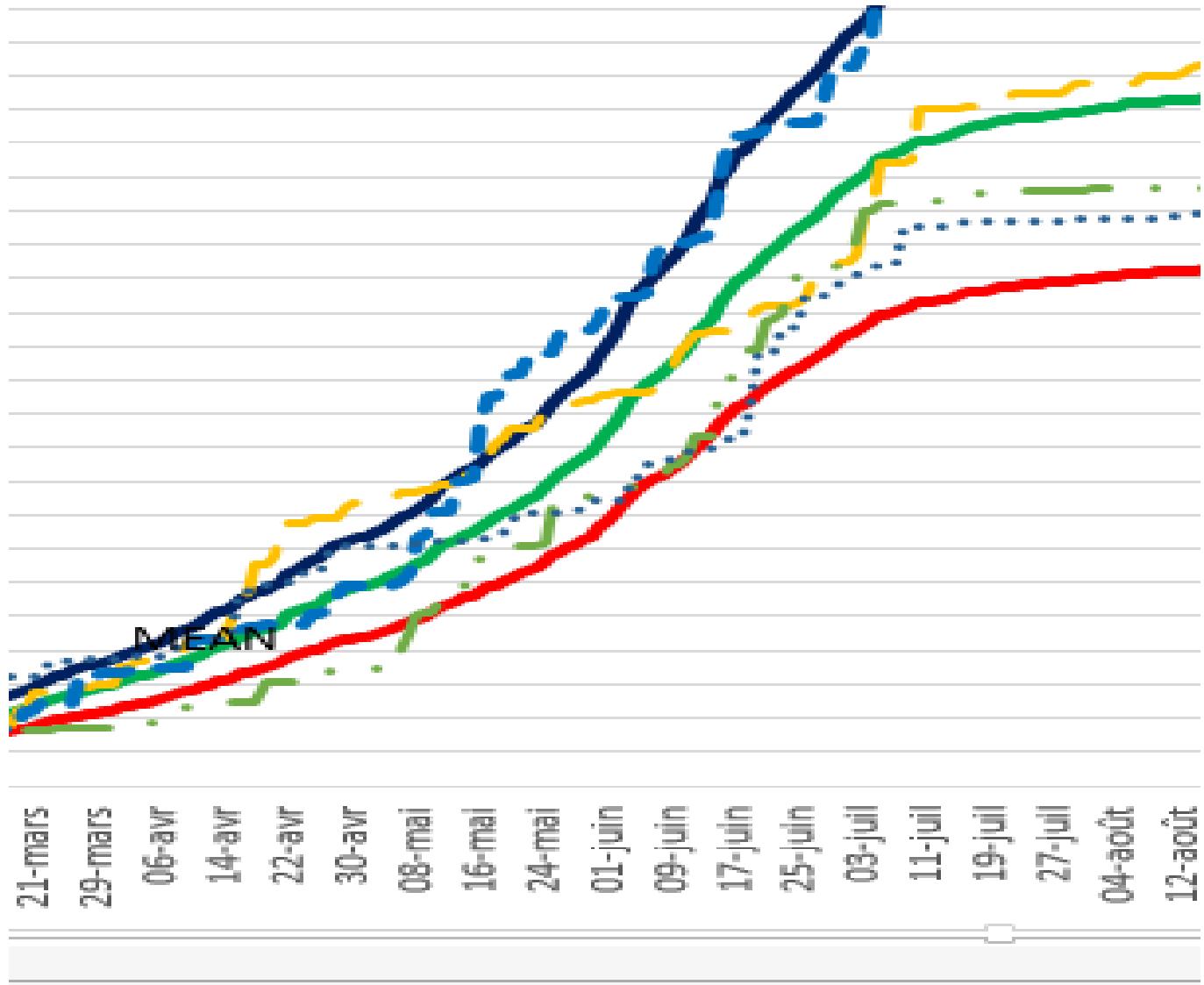
Rainfall profil over Abidjan



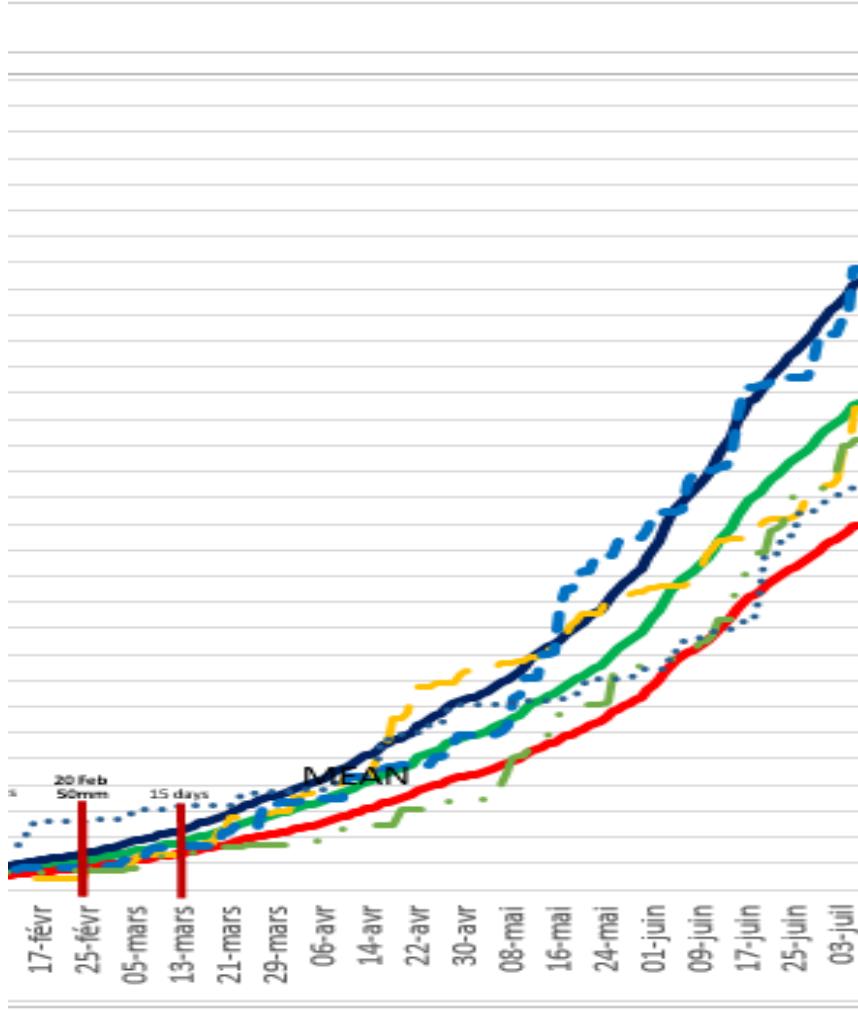
ONSET SEASON



Rainfall distribution



Quality of the season



Step 7:

DRIVERS

THANK YOU



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