



INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME



REGIONAL CLIMATE OUTLOOK FORUM PRESASS-10

Niamey, Niger 24th to 28th April 2023

Theme: « *Climate service for Early Warning for Early Action* ».

SEASONAL CLIMATE OUTLOOK BULLETIN
VALID FOR MAY-JUNE-JULY JUNE-JULY-AUGUST AND JULY-AUGUST-SEPTEMBER
2023
OVER THE SUDANO SAHELIAN REGION AND WEST AFRICA COUNTRIES,
(Niamey, 24th to 28th April 2023)

Produced by

The African Centre of Meteorological Applications for development (ACMAD) and AGRHYMET Regional Center in collaboration with National Meteorological and Hydrological Services of the West Africa and Sudano-Sahelian countries with support of WMO designated Global Producing Centers for Long Range Forecasts and the International Research Institute for Climate & Society at Columbia University in New-York USA.

This is a product support by Climate Services and Applications program (ClimSA)

A- Summary

The equatorial zone of the Pacific Ocean is currently dominated by neutral conditions. The temperatures (SSTs) are near to below average from the west-central to eastern Pacific Ocean. A transition from La Nina to ENSO-neutral is very likely in the next month or so, with an 20% chance of ENSO-Neutral and 73% for El Niño during May to September 2023.

Over Tropical North Atlantic and the southern tropical Atlantic the SST anomaly warming condition are currently observe and during the coming month these conditions are very likely to persist, The Mediterranean SST are near average , the prediction from May to September period are expected neutral to warm conditions. These will lead to above average precipitation to tendency normal in the central to western Sahel, the near average precipitation to tendency below average from coastal areas of the Guinea Gulf countries.

The forecast from May to September 2023:

- The outlooks for the rainfall season during the May to September 2023 period is that normal to below average rainfall is expected over western and eastern of the Guinea Gulf region.
- Above normal and normal to above average rainfall are very likely over most of the Sahel region from Senegal to Chad from May to September 2023.
- Normal to early onset is very is expected to observed during the rainy season of 2023 over most of the western parts region.

A- RECENT CLIMATE CONDITIONS AND OUTLOOKS SST

- The Equatorial Sea surface temperatures (SSTs) have been near average conditions across most of the Pacific Ocean from March to April 2023. During the May to August 2023 period, ENSO is favoured to transition from neutral (positive SSTs) to weak El Nino phase.
- Above average SSTs were observed over the Tropical North Atlantic (TNA) during January April 2023. Most model outputs and expert judgments favour persistence of above average conditions during the evolution of the seasons (May to August 2023).
- Above average SSTs characterized the North Atlantic Tropical (NAT) during February to April 2023. During the coming months, May to August, above average SSTs is expected to persist.
- Near to above average SSTs characterized the South Atlantic Tropical (SAT) from February to April 2023. These conditions are expected to remain near normal during the coming seasons.
- The SSTs over the Tropical South Atlantic (TSA) have been near average during January to April 2023. Model outputs and our expert judgment favour persistence of these conditions during the coming seasons (May to September 2023).
- Sea Surface Temperatures in the Western Tropical Indian Ocean (WTIO) and South-Eastern Tropical Indian Ocean (SETIO) have been near average during February to April 2023. Model outputs and our expert assessments are in favour of persistence of this condition for the coming four months.
- The Sea Surface Temperatures over the Mediterranean Sea have been above average during January to April 2023. Model outputs and our expert judgment predicted near average conditions during the next seasons (May to September 2023).

Given these SST anomalies, sub-surface temperature patterns and trends, knowledge and understanding of seasonal climate variability in Africa, and available long range forecasts products from Global Producing Centers for Long Range Forecasts, the following outlooks are provided for May-June-July (MJJ), June-July-August (JJA) and July-August-September (JAS) seasons across West Africa and Sudano Sahelian Region (see figures below):

B RECENT CLIMATE CONDITIONS AND OUTLOOK PRECIPITATION

- **Normal to below average precipitation is very likely** from May to September 2023 over Sierra Leone, Liberia, southern Nigeria and western Cameroon (figure 1, 2 and 3).
- **From May to July 2023 normal to above average and above average precipitation is very likely** over much of Senegal, Gambia, Guinea Bissau, southern Mauritania, Mali, northern and western Burkina Faso, southern Chad, northern CAR and Cameroon (figure 1).
- Most of the Sahel band from Mauritania Senegal, Gambia, Guinea Bissau, Guinea, Mali, Burkina Faso, northern Côte d'Ivoire, Ghana, Togo, Benin, Nigeria, Cameroon and CAR, southern Niger and Chad **Normal to above and above average precipitation is very likely** during June to September 2023 (figure 2 and 3).



**SEASONAL PRECIPITATION FORECAST
FOR SUDANO-SAHELIAN REGION OF AFRICA
VD FOR MAY-JUNE-JULY 2023
ISSUED ON APRIL 28, 2023**

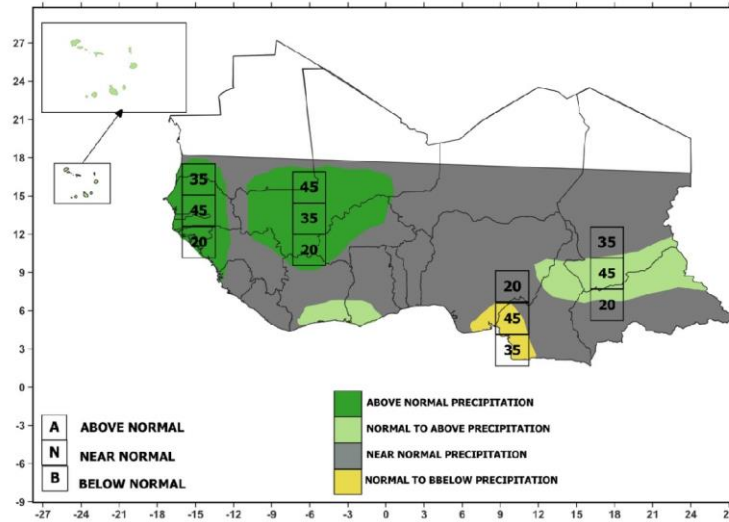


Figure 1: Seasonal forecast of precipitation for May-June-July 2022



**SEASONAL PRECIPITATION FORECAST
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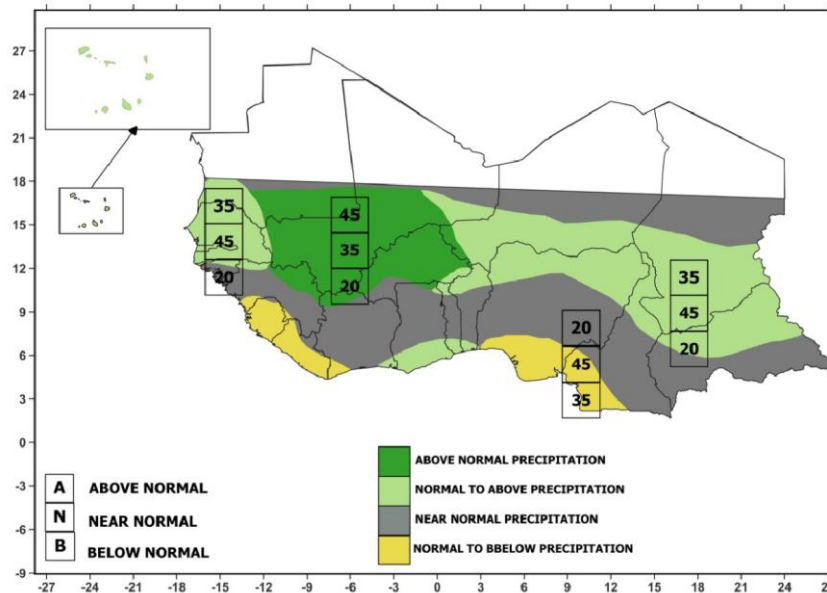


Figure 2: Seasonal forecast of Precipitation for June-July-August 2023



**SEASONAL PRECIPITATION FORECAST
FOR SUDANO-SAHELIAN REGION OF AFRICA
VALID FOR JULY-AUGUST-SEPTEMBER 2023
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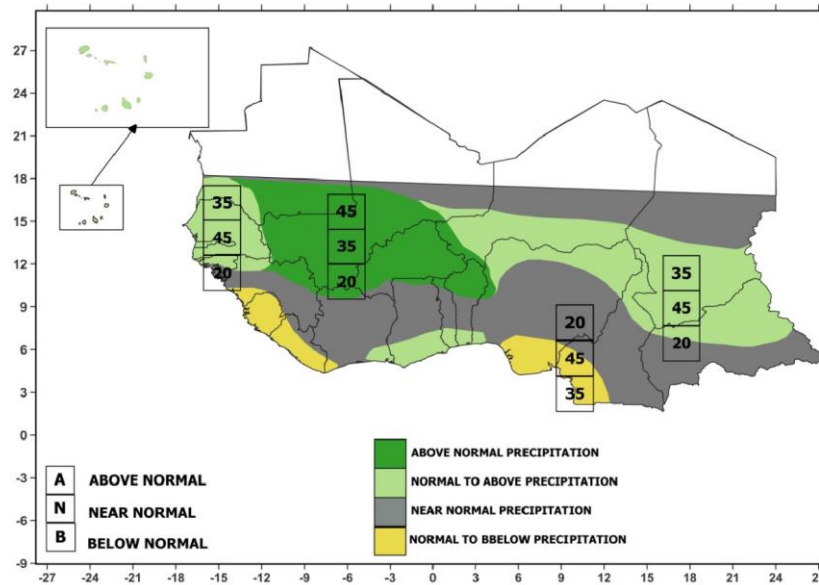


Figure 2: Seasonal forecast of Precipitation for July-August-September 2023

This outlook is produced at the regional scale. Thus, its interpretation should be for regional use. For local and/or country adaptation and applications needs, it is highly recommended to consult the National Meteorological and Hydrological Services of West Africa and Sudano-Sahelian for local details.

**C SOME ADVICES AND ACTIONS OPTIONS FOR SECTORS DURING MAY-JUNE-
JULY-AUGUST-SEPTEMBRE 2023**

NORMAL TO BELOW AVERAGE PRECIPITATION VERY LIKELY

- Beginning early to mean and end mid seasonal dates

Using short and varieties resistant to drought cycle

Begin agricultural activities earlier than usual

Interacting with the technicians of agricultural services for advice on the varieties to use

Use water conservation techniques in soil

Plan the use of supplemental irrigation

- Late start to early mean and mid-end seasonal dates

Limit the use of varieties that require a lot of water

Using varieties resistant to drought

More investment in aquaculture

Exploiting the shallows

Plan the use of supplemental irrigation

ABOVE AVERAGE AND NORMAL TO ABOVE AVERAGE PRECIPITATION VERY LIKELY

Look technicians' agricultural extension services

Properly Managing water resources for better use

Prevent additional inputs of fertilizer during the growing season of plants

Take steps to minimize any damage as a result of heavy rains

Control and survey risk of floods

Users are strongly advised to contact their National Meteorological and Hydrological Services as well as ACMAD website, for further expert advices and assistance.