

Summary

The agrometeorological bulletin for 1st dekad of November, 2017 shows a continuous reduction in rainfall amount when compared with the previous dekad and the highest rainfall total was recorded at Awka (90.1mm). The rainfall distribution showed reduction (1-4) of rain-days across the country. The rainfall anomalies show most parts of the country experienced below normal rainfall anomalies except some parts of south-west, south-south and south-east that had normal to above normal rainfall anomalies. The highest mean maximum day-time temperature was recorded at Sokoto (37.5°C) while the mean minimum night-time temperature was observed at Jos (13.0°C). The maximum temperature anomaly showed that most parts of the country experienced normal-to-warmer than normal temperature across most parts of the country. The Inter-Tropical Discontinuity (ITD) is expected to continue its southward retreat with mean position of 9.0N. The main season harvests are expected to continue across the country.

1.0 Rainfall Pattern

This section highlights the observed rainfall amount, rain-day, available soil moisture and their departures from normal for the 1st dekad of November, 2017.

1.1 Rainfall Amount

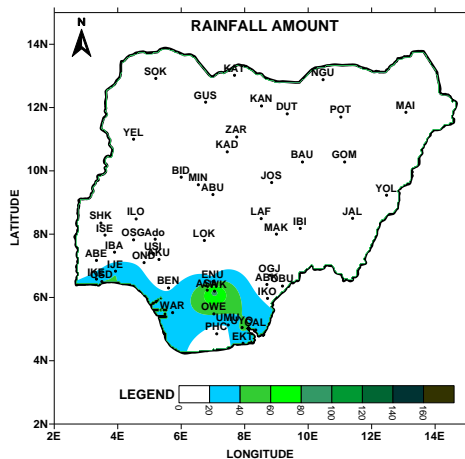


Figure 1: Rainfall Amount (mm)

Figure 1 shows the observed rainfall amount for 1st dekad of November, 2017 across stations in Nigeria. A significant reduction in total rainfall amount for the dekad under review was observed when compared with the preceding dekad. Moderate to low rainfall amounts were observed across the stretch of the southern cities. The highest rainfall total was recorded at Awka (90.1 mm).

1.2 Rainfall Departure.

The rainfall departure from long term normal for the 1st dekad of November, 2017 is shown in figure 2 below. Most parts of the country experienced normal to below normal rainfall anomalies except some areas in and around the south-west, south-south and south-east that recorded above normal rainfall anomalies.

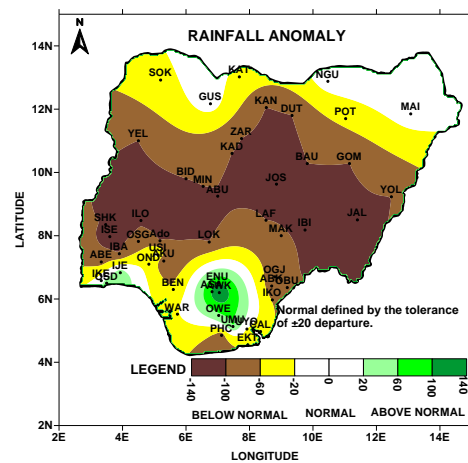


Figure 2: Rainfall Departure

1.3 Number of Rain Days

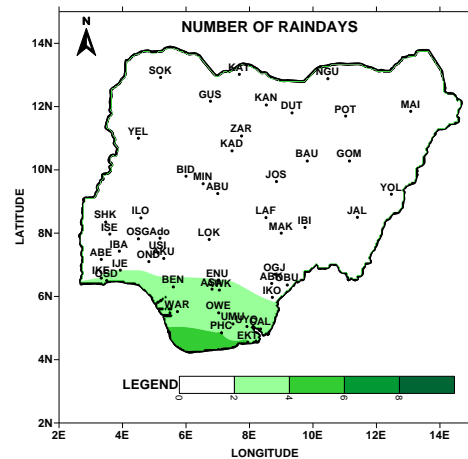


Figure 3: Rain-Day

Figure 3 shows the number of rain-days for the 1st dekad of November, 2017. A further reduction in rain days were observed particularly over the southern cities. Number of rain days around the country ranged from 1-4 days, with highest over Port-Harcourt with 4 rain days.

1.4 Soil Moisture Index

The available soil moisture conditions for 1st dekad of November 2017 is shown in figure 4 below. Below-normal soil moisture conditions were observed across most parts of the northern states down to some parts of inland of the southern states. However, areas in and around Asaba that had normal to above-normal soil moisture condition.

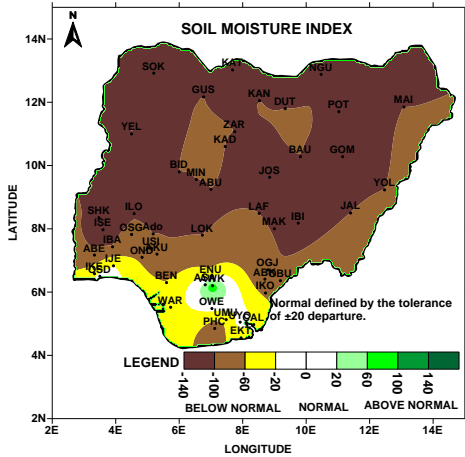


Figure 4: Soil Moisture Index (SMI).

2.0 Temperature Trend

This section highlights the maximum and minimum temperature trends across the country and their departures from normal (30-year average) during the dekad.

2.1 Maximum Temperature Trend

Figure 5 shows the mean maximum day-time temperature observed over the country for the 1st dekad of November, 2017. The maximum temperature trend ranged between 28.0°C over Jos and 37.5°C over Yola. However, Jos and Port-Harcourt recorded lowest day-time temperature during the dekad.

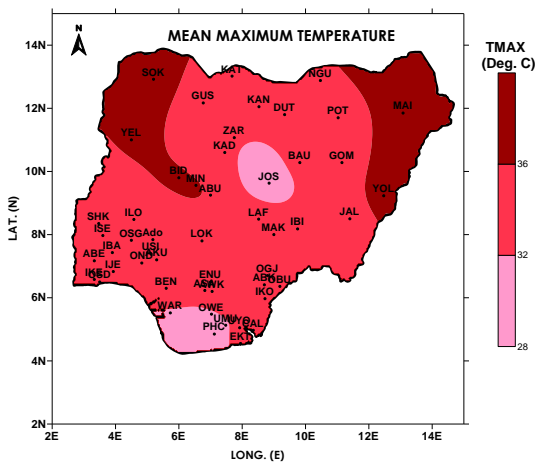


Figure 5: Mean Maximum Temperature

2.2 Maximum Temperature Departure

Figure 6 shows the maximum day-time temperature anomaly for the 1st dekad of November, 2017. The maximum temperature anomaly showed normal-to-warmer than normal temperature across most parts of the country except some few stations in and around Jalingo and Owerre that had colder than-normal temperature anomalies.

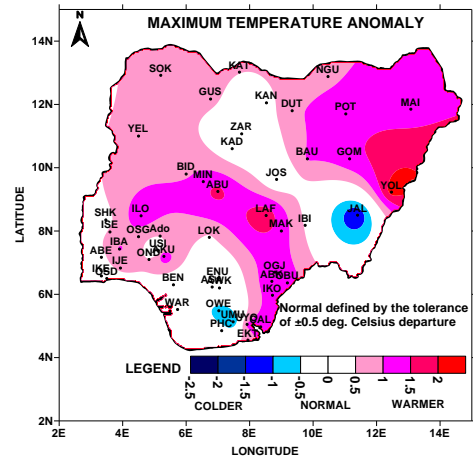


Figure 6: Maximum Temperature Anomaly.

2.3. Minimum Temperature

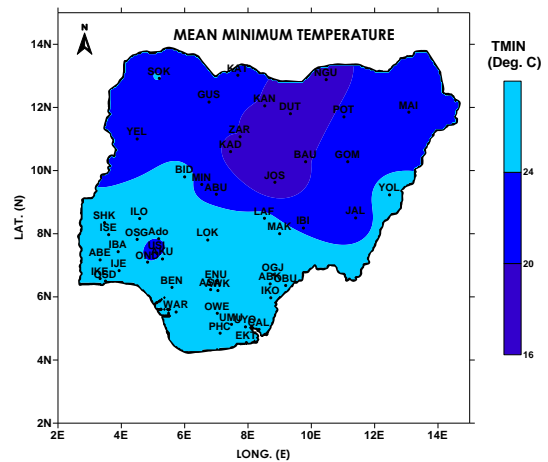


Figure 7: Mean Minimum Temperature

The mean minimum temperature across the country for 1st dekad of November, 2017 is shown in figure 7. The mean minimum temperature ranged between 13.0°C over Jos and 24.4°C over Abeokuta. However, Jos recorded the lowest night time temperature.

2.4 Minimum Temperature Departure

The minimum temperature departure from the long term for the 1st dekad of November, 2017 is shown in figure 8 below. Nguru, Dutse, Shaki, Usi-Ekiti Awka and Ijebu-Ode experienced colder than normal night time temperature while elsewhere had normal to

above-normal normal night time temperature anomalies.

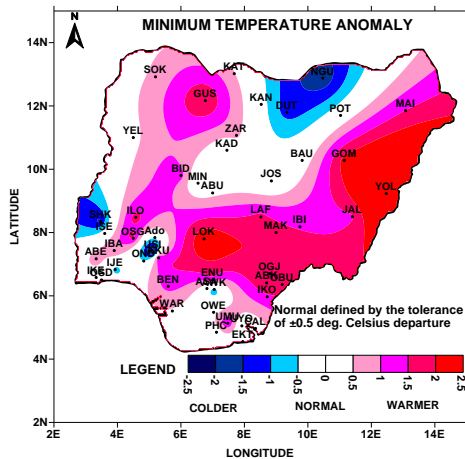


Figure 8: Mean Minimum Temperature Departure

3.0 Weather/Agricultural outlook for second (2nd) dekad (11-20) of November, 2017.

Table of Agrometeorological Data for the Dekad

STATION	RAINFALL (mm)	RAIN-DAYS	PET	TMAX	TMIN	GDD	RAD
ABEOKUTA	2.4	1	47.9	34.0	24.4	212.0	19.3
ABAKALIKI	2	1	49.7	34.2	24.0	211.4	20.1
ABUJA	0	0	60.3	35.8	19.8	198.0	24.9
ADO EKITI	0	0	50.3	32.6	21.2	188.7	21.1
AKURE	0	0	49.4	33.5	22.9	201.9	20.3
AWKA	90.1	3	47.6	32.5	22.7	196.1	19.8
BAUCHI	0	0	60.3	34.3	16.7	175.2	26.0
BENIN	17.5	3	42.7	32.5	24.9	207.2	17.4
BIDA	0	0	57.1	36.2	22.6	214.3	23.0
DUTSE	0	0	60.3	34.0	15.9	169.6	26.3
ENUGU	24.8	2	45.4	32.4	23.5	199.3	18.7
GOMBE	0	0	58.6	34.6	18.8	186.9	24.7
GUSAU	0	0	60.9	35.0	17.5	182.6	25.9
IBADAN	0	0	47.7	33.7	24.1	209.0	19.3
IJEBU-ODE	38.9	2	48.8	32.9	22.6	197.8	20.2
IKEJA	27.8	2	43.9	32.1	23.8	199.8	18.1
ILORIN	0	0	54.3	35.0	22.6	208.2	22.0

Note:

Rainfall (mm)
 PET= Potential Evapotranspiration (mm/decade)
 TMAX = Maximum Temperature (°C)
 TMIN = Minimum Temperature (°C)

3.1 Weather Outlook

The Inter-Tropical Discontinuity (ITD) is expected to continue its southward retreat with mean position of 9.0N. Sunny and hazy conditions are expected to dominate the northern cities particularly in the afternoon, with dust haze conditions in some parts of the northern cities in the morning.

Partly cloudy to cloudy conditions are anticipated across the central and southern states with prospects of thundery activities and rains.

3.2 Agricultural Activities

The main season harvests are expected to continue across the country. The second rain-fed agriculture is expected to continue across the southern states. However, intensification of activities in preparation and supplementation for dry season/irrigation farming are expected to continue over the North and central states. Cowpea, Soya beans, sweet potatoes and sorghum farming are still ongoing.

JALINGO	0	0	56.5	34.1	19.7	189.1	23.7
JOS	0	0	50.8	28.0	13.0	125.0	24.1
KADUNA	0	0	57.9	32.9	16.2	165.2	25.4
KANO	0	0	57.9	33.4	16.9	171.6	25.1
LAFIA	0	0	55.7	35.6	22.5	210.5	22.6
LOKOJA	0	0	50.2	34.4	23.9	211.4	20.3
MAIDUGURI	0	0	63.7	36.4	17.8	191.3	26.7
MINNA	0	0	61.8	36.3	19.6	199.3	25.5
NGURU	0	0	63.0	35.7	16.7	182.0	26.8
OSHODI	40.1	3	42.8	32.1	24.3	202.1	17.6
OSHOGBO	2.4	1	48.8	33.1	22.7	199.2	20.1
PHC	8.2	4	44.3	31.5	22.9	191.9	18.5
SHKAKI	0	0	50.1	32.9	21.6	192.2	20.9
SOKOTO	0	0	59.9	36.7	21.1	209.0	24.3
UMUAHIA	20.7	3	43.4	31.7	23.6	196.8	18.0
USI-EKITI	16	2	53.3	32.0	18.3	171.1	23.1
YELWA	0	0	62.7	36.3	18.6	194.5	26.1
YOLA	0	0	60.8	37.5	22.5	219.9	24.2
ZARIA	0	0	56.1	32.6	17.0	167.7	24.5

GDD= Growing Degree Day (day)
 RAD = Radiation (MJ/m²/day)

Kindly send feedback to:
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