

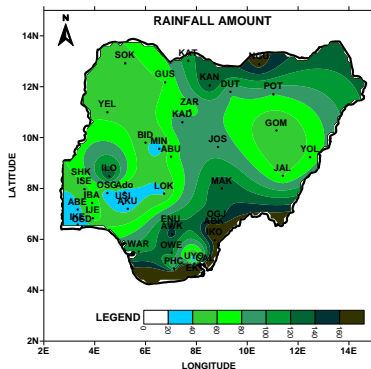
**Summary**

The 1<sup>st</sup> dekad of August, 2017 agrometeorological bulletin recorded significant rainfall amount across the country and the highest rainfall amount 216mm was recorded in Abakaliki. Calabar, Nguru and Awka stations had rainfall values of 193.8mm, 171.3 mm and 149.4 mm respectively. The rainfall distribution showed a wide distribution of rainfall (3-10 rain-days) across the country. Most parts of the country experienced above normal soil moisture conditions. The highest mean maximum temperature was recorded at Katsina (34.8°C), while the mean minimum temperature was observed at Jos (17.0°C). The maximum temperature anomaly revealed that most parts of the country experienced normal to colder than-normal temperature anomalies. The northward movement of (ITD) is expected to continue with mean position of 18.5°N. Rain fed agriculture is expected to continue across the country. Farmers are advised to consult NiMet SRP for seasonal rainfall distribution.

**1.0 Rainfall Pattern**

This section highlights the observed rainfall amount, rain-day, available soil moisture and their departures from 30-year average for the 1<sup>st</sup> dekad of August, 2017.

**1.1 Rainfall Amount**



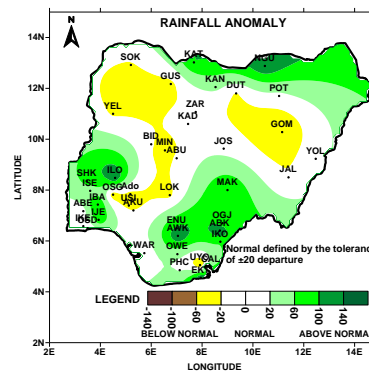
**Figure 1: Rainfall Amount (mm)**

Figure 1 shows the observed rainfall amount for 1<sup>st</sup> dekad of August, 2017. The rainfall amounts observed across the country were reduced significantly when compared with the preceding dekad. The highest rainfall amount was recorded in Abakaliki with a value of 216.mm, followed by Calabar 193.8, Nguru 171.3mm, Awka 149.4mm, Ilorin 147.3mm, Eket 146mm, Kano 142.3mm and Makurdi 141.4mm. Elsewhere recorded above 25mm of rainfall except some areas in and around Ikeja, Oshodi, Oshogbo, Minna. Farmers across the northern country are advised to consult NiMet Seasonal Rainfall Predictions (SRP) for expected growing period and rainfall distribution.

**1.2 Rainfall Departure.**

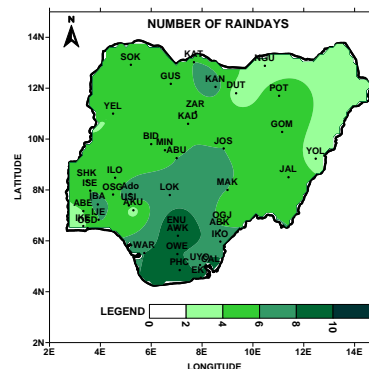
The rainfall departure from normal for the 1<sup>st</sup> dekad of August, 2017 is shown in figure 2. The south-west, south-east and south-south axes had above normal rainfall departure. Most parts of the north-central north-east and north-west axes had normal and

below normal rainfall departure. Elsewhere had normal departure.



**Figure 2: Rainfall Departure**

**1.3 Number of Rain Days**



**Figure 3: Rain-Day**

The number of rain-days for the 1<sup>st</sup> dekad of August, 2017 is shown figure 3. The distribution of rain-days revealed increase in number of rain-days across the country especially the central and southern parts with values of 3-10 rain days when compared with the preceding dekad.

### 1.4 Soil Moisture Index

Figure 4 shows the available soil moisture conditions across the country for the 1<sup>st</sup> dekad of August, 2017. Most parts of the country experienced above normal soil moisture conditions except some areas in and around Gombe, Minna, Lokoja, Lokoja and Akure that had normal soil moisture conditions during the dekad under review.

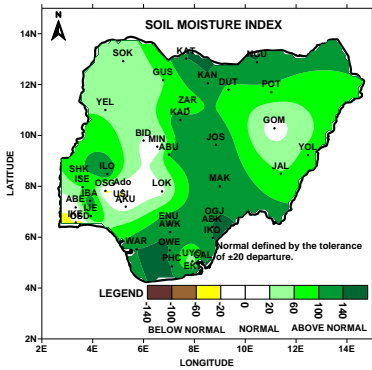


Figure 4: Soil Moisture Index (SMI).

### 2.0 Temperature Trend

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

#### 2.1 Maximum Temperature Trend

The mean maximum temperature for the 1<sup>st</sup> dekad of August, 2017 is shown in figure 5. The highest maximum temperature was recorded at Katsina (34.8°C).

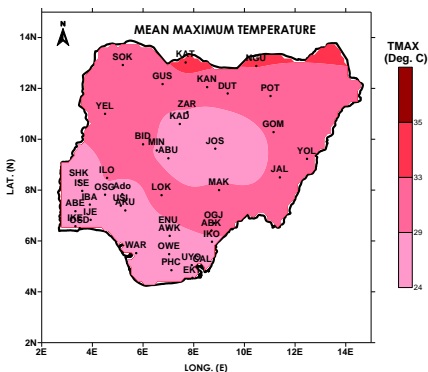


Figure 5: Mean Maximum Temperature

#### 2.2 Maximum Temperature Departure

Figure 6 shows the maximum temperature anomaly for the 1<sup>st</sup> dekad of August, 2017. It revealed that most parts of the country experienced normal to colder than-normal temperature anomalies with the exception of some areas in and around, Katsina and

Nguru that had colder than-normal temperature anomalies.

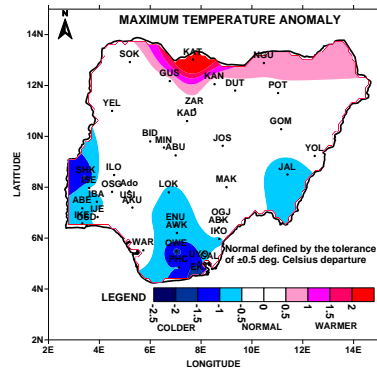


Figure 6: Maximum Temperature Anomaly.

### 2.3. Minimum Temperature

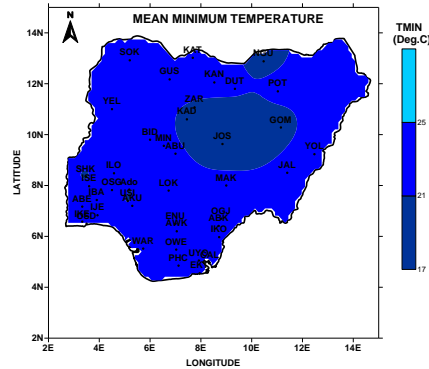


Figure 7: Mean Minimum Temperature

The mean minimum temperature across the country for 1<sup>st</sup> dekad of August, 2017 is shown in figure 7. The lowest value was recorded at Jos (17.0°C).

#### 2.4 Minimum Temperature Departure

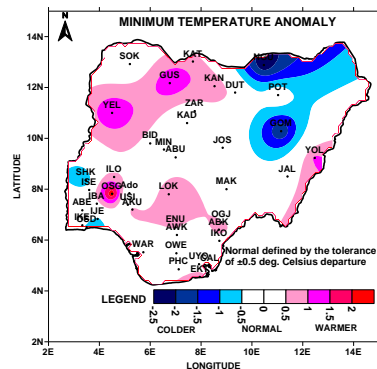


Figure 8: Mean Minimum Temperature Departure

Figure 8 shows the minimum temperature departure for the 1<sup>st</sup> dekad of August, 2017. It revealed that most parts of the country experienced normal to warmer than normal night time temperature anomalies with the exception of Nguru, Gombe and

Shaki that had colder than-normal temperature anomalies. However, the coldest minimum temperature anomaly was observed at Nguru.

### 3.0 Weather/Agricultural outlook for 2<sup>nd</sup> dekad (11-20) of August, 2017.

#### 3.1 Weather Outlook

The Inter-Tropical Discontinuity (ITD) is expected to continue its northward movement with a mean

position well above the country (18.5°N). Sunny and cloudy conditions are expected over the northern part of the country with chances of rain showers towards afternoon to evening hours.

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

#### 3.2 Agricultural Activities

Rain fed agriculture is expected to continue across the country. Farmers are advised to consult NiMets SRP for better application and farming activities.

**TABLE OF AGROMETEOROLOGICAL DATA FOR THE DEKAD**

STATION	RAINFALL	RAINDAYS	TMAX	TMIN	PET	DD	RADIATION
ABE	27.5	4	31.5	28.3	23.2	177.8	13.5
ABK	216	8	35.4	29.5	23.1	183.0	15.0
ABU	72.9	6	35.8	28.7	22.0	173.3	15.4
Ado	29.1	8	36.3	27.9	20.9	164.0	16.0
AKU	34	3	32.3	27.5	22.0	167.3	14.1
AWK	149.4	9	35.1	28.7	22.3	175.1	15.1
BID	43.7	5	37.4	30.2	23.1	186.6	15.8
CAL	193.8	9	31.9	27.8	22.4	170.8	13.8
DUT	80.9	3	42.9	31.1	21.6	183.6	18.2
EKT	761.6	9	21.2	26.1	23.6	168.5	9.3
ENU	138.8	10	32.7	28.7	23.2	179.5	13.9
GOM	40.1	5	43.5	29.6	19.0	162.9	19.2
GUS	60.5	5	38.4	30.2	22.5	183.5	16.2
IBA	84.6	7	31.8	27.3	21.9	166.2	13.9
IJE	63.9	6	33.5	27.8	21.9	168.7	14.6
IKE	25.3	3	30.3	27.8	23.0	174.3	13.0
IKO	172.7	7	33.3	28.5	22.8	176.5	14.3
ILO	147.3	4	37.9	29.3	21.9	176.0	16.3
ISE	49.4	6	31.3	26.9	21.6	162.6	13.8
JOS	93.5	6	33.5	24.1	17.0	125.2	15.9
JAL	59.3	6	36.8	29.6	22.5	180.8	15.7
KAD	103	6	37.8	27.9	20.0	159.6	16.7
KAN	142.2	7	41.0	30.8	22.1	184.6	17.4
KAT	110.8	6	41.0	34.8	22.2	185.4	17.3
LOK	37.5	7	35.0	29.8	23.7	187.5	14.7
MAK	141.4	6	37.3	30.0	23.1	185.5	15.8
MIN	29	5	35.3	28.7	22.0	173.4	15.3
NGU	171.3	3	50.6	33.1	19.9	185.2	21.4

OGJ	127.8	5	36.4	29.6	22.9	182.4	15.5
OSD	15.4	5	33.4	27.6	21.7	166.9	14.6
OSG	19.4	5	28.6	27.9	23.7	177.8	12.2
OWE	128.2	8	30.7	27.5	22.4	169.5	13.3
PHC	94.2	9	30.7	27.8	22.9	173.7	13.3
POT	79.5	5	42.4	31.3	22.2	187.4	17.9
SHK	61.1	5	32.6	26.6	20.7	156.7	14.5
SOK	52.3	6	40.1	30.9	22.7	188.3	16.9
USI	30	5	35.8	27.6	20.7	161.8	15.8
UYO	37	7	30.4	27.6	22.7	171.3	13.2
WAR	116.7	8	31.3	28.2	23.3	177.6	13.4
YEL	54	4	34.9	30.3	23.9	191.0	14.6
YOL	65.6	3	37.6	31.0	24.1	195.7	15.6
ZAR	66.7	5	39.0	28.9	20.6	167.2	17.0

Note:

Rainfall (mm)

PET= Potential Evapotranspiration (mm/decade)

TMAX = Maximum Temperature (°C)

TMIN = Minimum Temperature (°C)

GDD= Growing Degree Day (day)

RAD = Radiation (MJ/m<sup>2</sup>/day)

**Kindly send feedback to:**

**The Director-General/CEO,**

**Nigerian Meteorological Agency (NiMet),**

**National Weather Forecasting and Climate**

**Research Centre, NnamdiAzikiwe International**

**Airport, PMB 615 Garki, Abuja.**

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