

Summary

The agrometeorological bulletin for second dekad of January, 2018 shows only Owerri recorded 15.1mm of rainfall amount on day 11th of the dekad. Most parts of the country experienced normal to below normal rainfall anomalies except Owerri that had above normal rainfall anomalies. The highest mean maximum day-time temperature was recorded at Abeokuta (36.7°C) and the mean minimum day-night temperature was observed at Usi-Ekiti (9.5°C). The maximum temperature anomaly showed normal-to-warmer than normal temperature across some parts of the country especially around south-east, south-west, south-south and Nguru except some few stations in and around Eket, Umuahia, Port-Harcourt and some states around north-west that experienced colder than-normal temperature anomalies. The Inter-Tropical Discontinuity (ITD) is expected to continue its southward retreat with mean position of 6.6N. Farmers are expected to continue with dry season/irrigation farming 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 2nd dekad of January, 2018.

1.1 Rainfall Amount

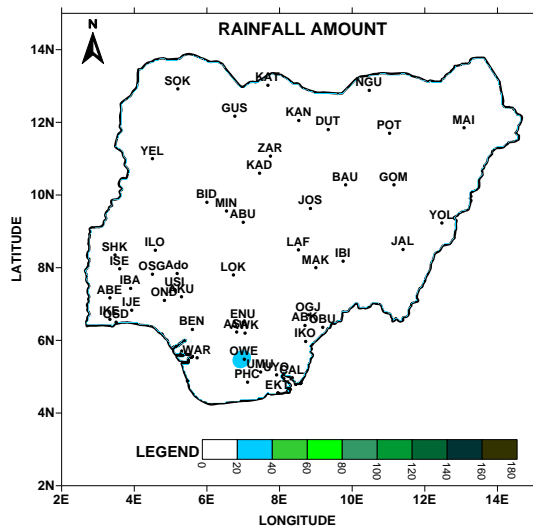


Figure 1: Rainfall Amount (mm)

Figure 1 shows the observed rainfall amount for 2nd dekad of January, 2018 in Nigeria was observed in owerri and the rainfall amount recorded (15.3mm).

1.2 Rainfall Departure.

The rainfall departure from long term normal for the 2nd dekad of January, 2018 is shown in figure 2 below. Most parts of the country experienced normal rainfall anomalies except Owerri recorded above normal rainfall anomalies.

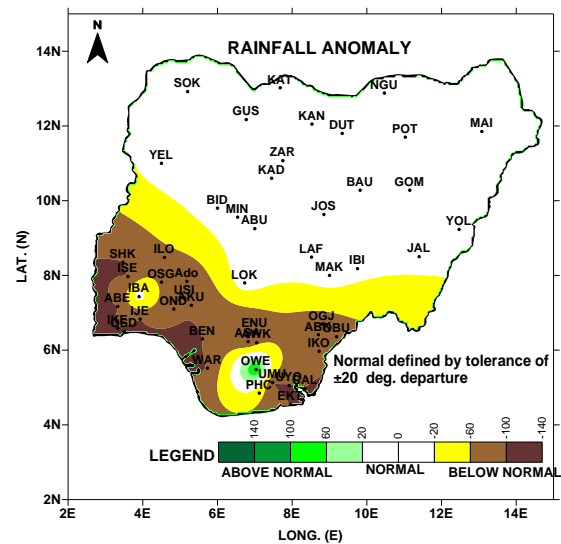


Figure 2: Rainfall Departure

1.3 Number of Rain Days

The number of rain-days for the 2nd dekad of January, 2018 was zero except Owerri south eastern of Nigeria with one rain day recorded.

1.4 Soil Moisture Index

The available soil moisture condition for 2nd dekad of January 2018 is shown in figure 4 below. Below-normal soil moisture conditions were observed across the country.

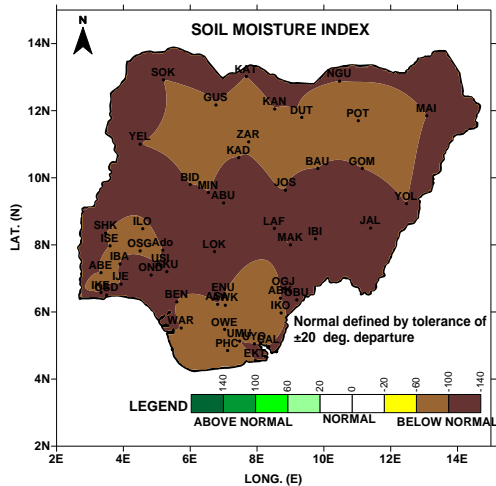


Figure 4: Soil Moisture Index (SMI).

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 decade.

2.1 Maximum Temperature Trend

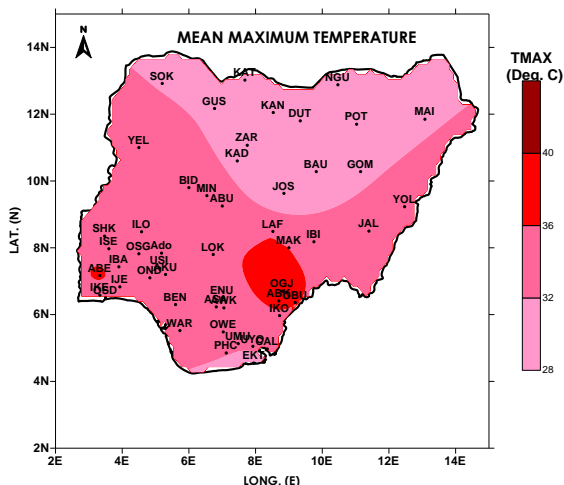


Figure 5: Mean Maximum Temperature

Figure 5 shows the mean maximum day-time temperature observed over the country for the 2nd decade of January, 2018. The maximum temperature trend ranged between 28.0°C over Jos and 36.7°C over Abeokuta.

2.2 Maximum Temperature Departure

Figure 6 shows the maximum day-time temperature anomaly for the 2nd decade of January, 2018. The maximum temperature anomaly showed normal-to-warmer than normal temperature across some parts of the country especially around southeast, south-

west, south-south and Nguru except some few stations in and around Eket, Umuahia, Port-Harcourt and some state around Northwest that had colder than-normal temperature anomalies.

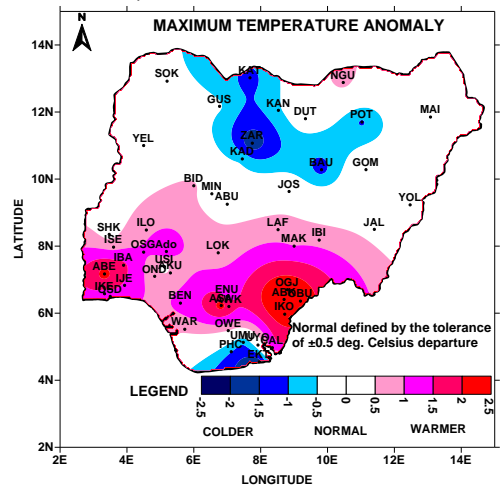


Figure 6: Maximum Temperature Anomaly.

2.3. Minimum Temperature

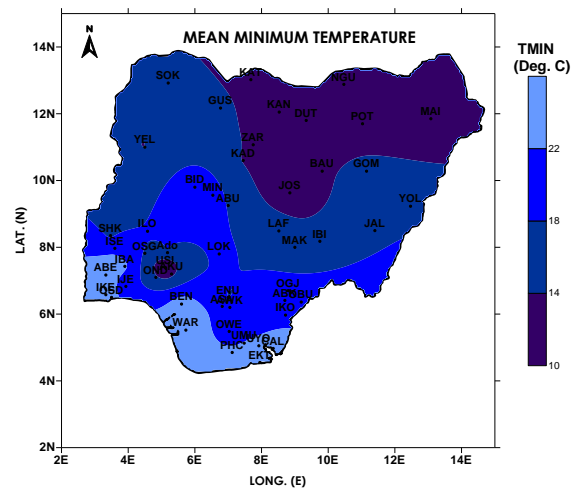


Figure 7: Mean Minimum Temperature

The mean minimum temperature across the country for 2nd decade of January, 2018 is shown in figure 7. The mean minimum temperature ranged between 9.5°C over Usi-Ekiti and 24.6°C over Eket. However, Usi-Ekiti recorded the lowest night time temperature.

2.4 Minimum Temperature Departure

The minimum temperature departure from the long term for the second decade of January, 2018 is shown in figure 8 below. The Country experienced colder than normal night time temperature except Gombe, Yola, Jalingo, Gusau, Ibadan, Ijebu-ode and Ikom while southsouth, Abeokuta and Ikeja had normal to above-normal normal night time temperature anomalies.

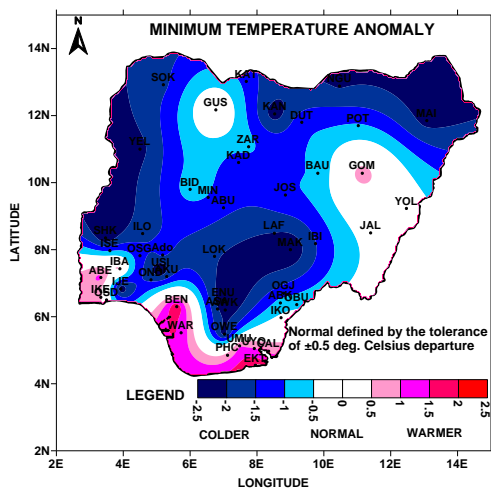


Figure 8: Mean Minimum Temperature Departure

3.0 Weather/Agricultural outlook for Third (3^d) dekad (21-31) of January, 2018.

Table of Agrometeorological Data for the Dekad

STATION	RAINFALL (mm)	RAIN-DAYS	PET	TMAX	TMIN	GDD	RAD
ABEOKUTA	0	0	55.8	36.7	24.0	223.8	22.1
ABAKILIKI	0	0	60.9	36.5	20.3	204.4	24.9
Ado EKITI	0	0	58.9	34.3	17.8	180.3	25.1
ASABA	0	0	58.6	35.8	20.7	202.5	24.1
BAUCHI	0	0	53.0	29.6	13.4	134.8	24.6
BENIN	0	0	48.5	34.4	24.5	214.8	19.5
BIDA	0	0	58.0	35.5	20.4	199.8	23.9
CALABAR	0	0	47.9	33.5	23.6	205.2	19.5
DUTSE	0	0	51.9	29.0	12.6	127.9	24.6
EKITI	0	0	35.7	30.4	24.6	194.8	14.8
ENUGU	0	0	60.2	35.0	18.0	184.8	25.5
GOMBE	0	0	54.3	31.1	15.1	151.0	24.5
GUSAU	0	0	53.6	31.0	15.3	151.5	24.1
IBADAN	0	0	53.0	34.9	22.8	208.6	21.5
IJEBU-ODE	0	0	56.8	34.5	19.8	191.3	23.8
IKEJA	0	0	48.9	34.1	24.0	210.6	19.8
ISEYIN	0	0	54.9	34.6	21.1	198.6	22.7

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 6.6N. Dust haze 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.

Dust haze conditions are anticipated across the central and some southern states with prospects of partially cloudy conditions.

3.2 Agricultural Activities

The agricultural activities are expected to continue across the country for the dry season/irrigation farming over the North and central states. Maize, Rice, Wheat sweet potatoes and other perishable crops are expect to continue.

JOS	0	0	52.9	28.0	10.4	112.1	25.7
KADUNA	0	0	54.5	30.6	13.8	141.9	25.0
KANO	0	0	52.9	28.5	10.9	116.9	25.5
KATSINA	0	0	51.7	28.6	12.0	122.9	24.6
LAFIA	0	0	63.2	35.8	16.7	182.4	26.9
LOKOJA	0	0	60.8	35.5	18.4	189.6	25.5
MAIDUGURI	0	0	59.6	31.6	10.6	131.3	27.9
MARURDI	0	0	65.1	36.0	15.7	178.3	27.9
MINNA	0	0	58.1	35.0	19.3	191.6	24.3
NGURU	0	0	56.1	30.6	11.9	132.5	26.2
OWERRI	15.1	1	55.8	34.1	19.9	190.0	23.4
POTISKUM	0	0	54.5	29.7	11.9	128.0	25.7
SHAKI	0	0	57.5	33.6	17.5	175.1	24.8
SOKOTO	0	0	55.0	31.7	15.3	155.0	24.6
UMUAHIA	0	0	48.5	32.8	22.1	194.5	20.2
USI-EKITI	0	0	64.4	33.2	9.5	133.7	30.0
WARRI	0	0	45.2	33.1	24.4	207.7	18.4
YELWA	0	0	62.1	34.2	13.9	160.4	27.5
YOLA	0	0	58.6	34.1	17.4	177.7	25.1
ZARIA	0	0	52.1	29.2	13.4	133.2	24.3

GDD= Growing Degree Day (day)

RAD = Radiation (MJ/m²/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.
 E-mail: agrometbulletin@nimet.gov.ng; NiMet WEB SITE: www.nimet.gov.ng