

**Agro-meteorological Bulletin and Assessment for Farmers and Livestock
Producers of Trinidad and Tobago for the Second Dekad (11th -20th) of
November, 2017.**

Definitions used in the forecast and bulletin:

Term	Meaning	
Dekad	10 day rainfall measuring period	
Rain Day	A day with 1.0 mm or more of rainfall amount	
Wet Day	A day with 10.0 mm or more of rainfall amount	
Extremely Wet Day	A day with 25.0 mm or more of rainfall amount	
Normal Rainfall	Between 75% and 125 % of the average	
Below Normal Rainfall	Rainfall below 75% of the average	
Above Normal Rainfall	Rainfall in excess of 125 % of the average	
Much below Normal Rainfall	Rainfall below 50% of the average	
Much above Normal Rainfall	Rainfall above 150% of the average	
Scanty Rainfall	Less than 1 mm	
Moderate Rainfall	1-10 mm	
Heavy Rainfall	10-50 mm	
Very heavy Rainfall	Greater than 50 mm	
Probability of 1-30 %	Low Chance	
Probability of 30-70 %	Moderate Chance	
Probability greater than 70%	High Chance	
Term	Amount of Rain	Type of day
Scanty Rainfall	Less than 1 mm	Relatively dry day
Moderate Rainfall	1-10 mm	Relatively wet day
Heavy Rainfall	10-50 mm	Wet day
Very heavy Rainfall	Greater than 50 mm	Excessively wet day

Weather Assessment for the First Dekad (1st-10th) of November, 2017.

Trinidad experienced scanty to moderate rainfall amounts over most areas, during days 1st, 2nd, 6th and 7th of the dekad, with its ten-day rainfall totals ranging between 32.0 mm and 73.8 mm. Piarco had a ten-day rainfall total of 32.7 mm, with similar amounts of rainfall in southern, northwestern, and western regions. However, twice as much rainfall fell in eastern and central areas.

Tobago experienced light to moderate rainfall amounts over most areas during days 1st, 5th, 6th and 7th of the dekad, with its ten-day rainfall totals ranging between 37.1 mm and 84.3 mm. Crown Point had a ten-day rainfall total of 74.6 mm with slightly above this amount reported in the central regions and approximately half the amount reported in the northwestern areas.

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Accompanying these conditions maximum temperature in Trinidad got up to 33.3 °C and minimum temperature of 23.2 °C. While, Tobago's temperatures went up to a maximum of 31.7 °C and minimum temperature of 24.4 °C.

Expected Weather for Second Dekad (11th-20th) of November, 2017 and Likely Impact on Agriculture.

During days 14th, 15th, 16th and 17th of the dekad, there is a 65% chance of a low level southeasterly to easterly wind flow modulated by the Atlantic high pressure system and Inter-tropical Convergence Zone (ITCZ). This will bring bands of moist air over both islands. This will produce mostly patchy cloudy conditions with few cloudy periods and light to moderate rainfall at times. The forecast maximum temperatures during those days in Trinidad will be near 31.6 °C, while Tobago's forecast maximum temperatures will be near 30.6 °C. On the other hand, the forecast minimum temperatures during those days will be near 23.8 °C in Trinidad and near 24.6 °C in Tobago.

However, during days 11th, 12th, 13th, 18th, 19th and 20th of dekad, expect mostly patchy cloudy skies with few brief light, occasionally moderate rainfall at times. This will disperse to give sunny, breezy and/or hazy conditions at times. The maximum temperatures are expected to be near 33.1 °C in Trinidad and 31.6 °C in Tobago. Generally clear nights will give low temperatures of 22.8 °C in Trinidad and 23.8 °C in Tobago.

Over the ten-day period, Trinidad and Tobago's highest possible daily rainfall totals will range between 10.0 mm and 30.0 mm, with its ten-day totals ranging between 50.0 mm and 80.0 mm, as seen in figures 1 and 2.

There is a moderate chance of flash flooding on streets, riverine and flooding in low lying areas during those wet and humid days. Also there is a moderate probability of pest and diseases especially the spread of fungi on crops and crop rot following those wet and humid days.

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Trinidad's Mean Daily Rainfall Forecast for the Second Dekad of November (11th-20th) 2017.

Northern & Northwestern areas:

Moderate chance (60%) of mean daily rainfall up to 5.3 mm.

North-Eastern and Eastern areas:

Moderate chance (65%) of mean daily rainfall up to 7.9 mm.

Central, West-Central and inland areas:

Moderate chance (62%) of mean daily rainfall up to 6.4 mm.

South-Eastern areas:

Moderate chance (65%) of mean daily rainfall up to 8.0 mm.

Southern areas:

Moderate chance (63%) of mean daily rainfall up to 6.6 mm.

South-Western areas:

Moderate chance (60%) of mean daily rainfall up to 5.1 mm.

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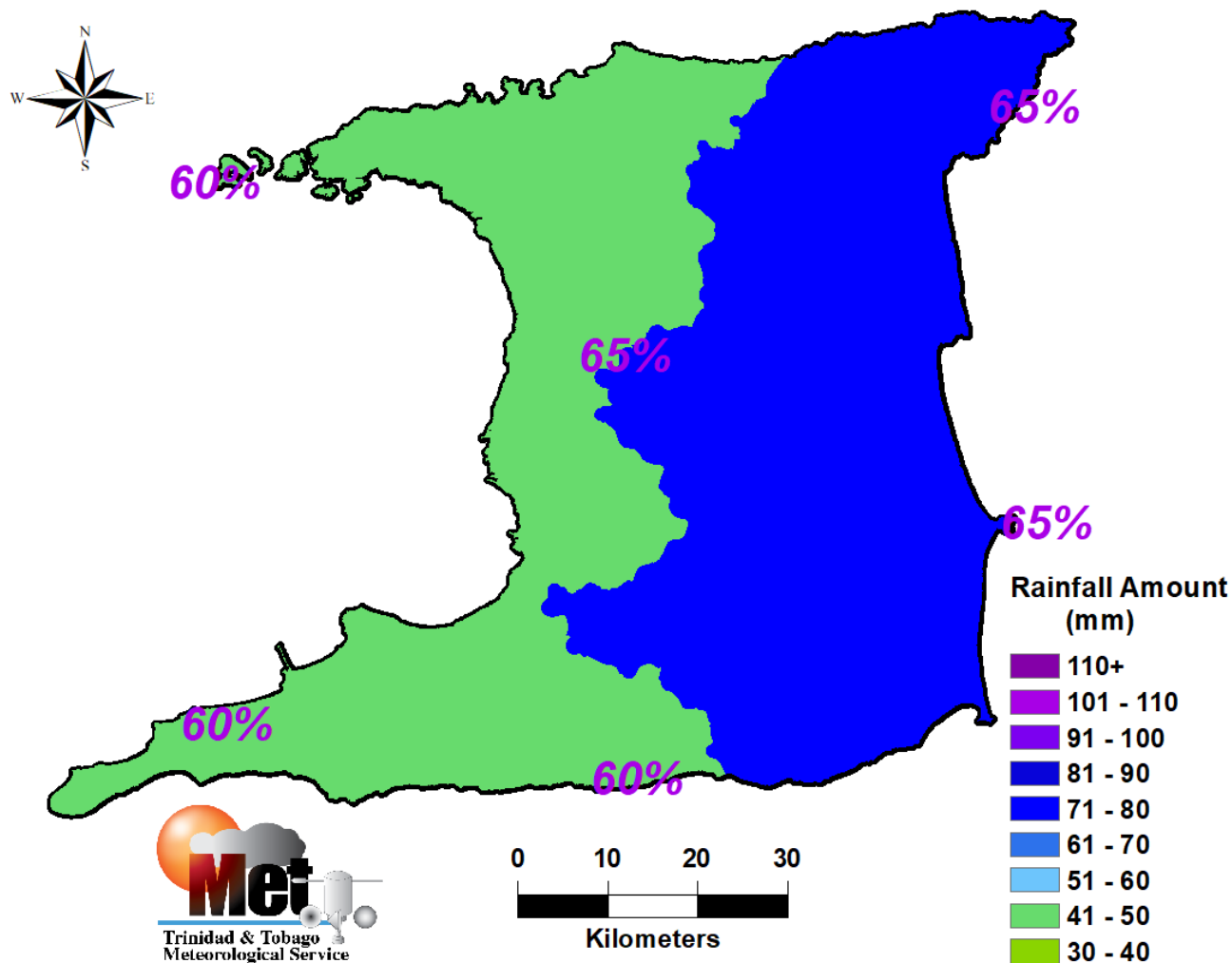


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during second dekad of November, 2017 and percentage probability of occurrence.

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Tobago’s Mean Daily Rainfall Forecast for the Second Dekad of November (11th-20th) 2017.

Northeastern areas:

Moderate chance (63%) of mean daily rainfall up to 7.0 mm.

South-Western areas:

Moderate chance (64%) of mean daily rainfall up to 7.2 mm.

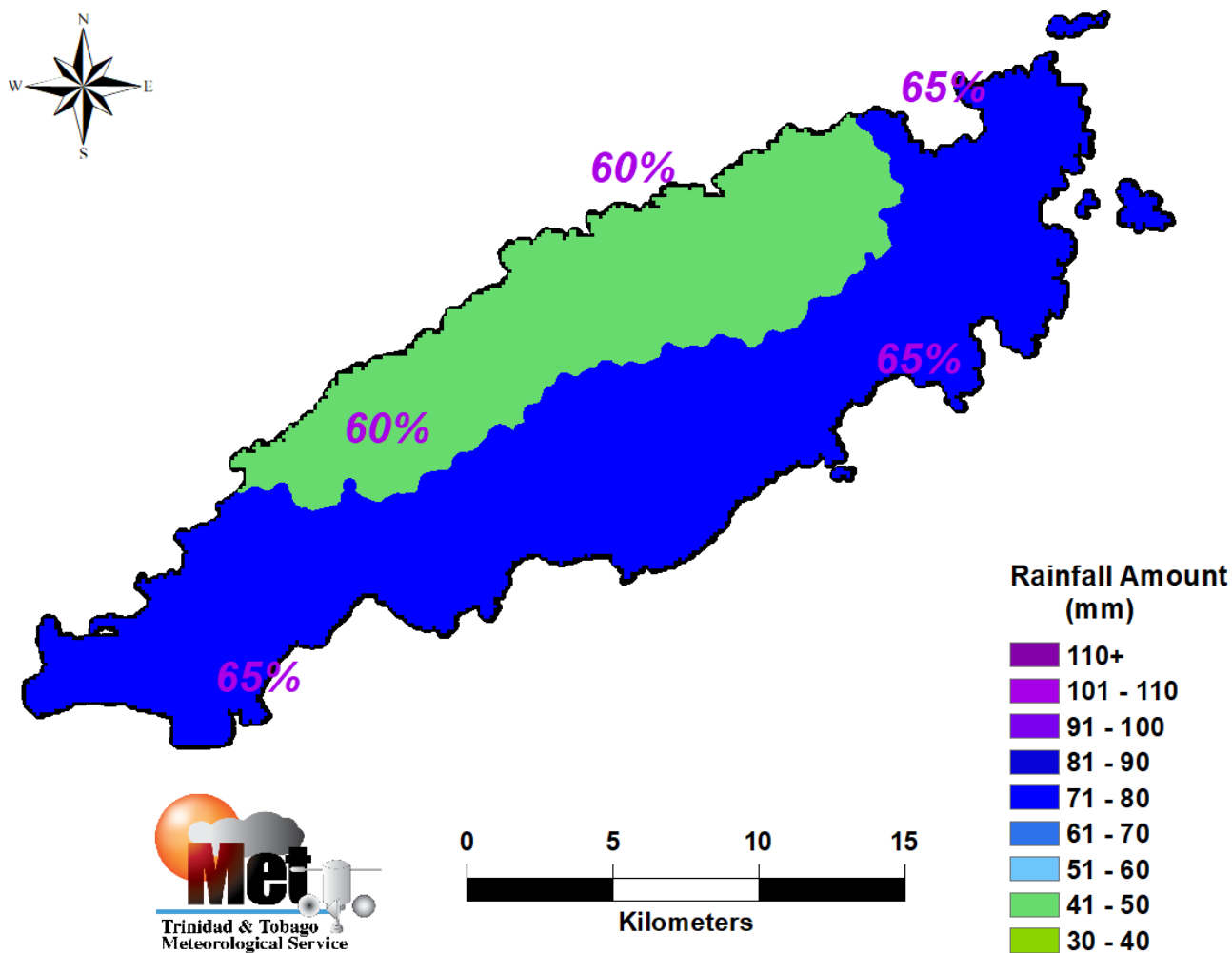


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during second dekad of November, 2017 and percentage probability of occurrence.

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Temperatures:

Trinidad's Temperature Forecast for the Second Dekad of November(11th-20th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.6 °C, peaking near 33.1 °C.

Moderate chance (70%) of daily minimum temperatures to be below 23.8 °C, dropping as low as 22.8 °C.

Tobago's Temperature Forecast for the Second Dekad of November (11th-20th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 30.6 °C, peaking near 31.6 °C.

Moderate chance (70%) of daily minimum temperatures to be below 24.6 °C, dropping as low as 23.8 °C.

Summary:

The second peak in the rainy season is in November, having said that, during days 14th, 15th, 16th and 17th of the dekad, there is a 65% chance of an interaction between the Atlantic high pressure system and the Inter-Tropical Convergences Zone (ITCZ) bringing bands of moist air over both islands. This will produce mostly patchy cloudy conditions with few cloudy periods and mostly light to moderate rainfall amounts. The forecast maximum temperatures during those days in Trinidad will be near 31.6 °C, while Tobago's forecast maximum temperatures will be near 30.6 °C. Whereas, the forecast minimum temperatures during those days will be near 23.8 °C in Trinidad and near 24.6 °C in Tobago.

However, during days 11th, 12th, 13th, 18th, 19th and 20th of dekad, expect mostly patchy cloudy skies with brief light occasionally moderate showers at times. This will disperse to give sunny, breezy and/or hazy conditions. The maximum temperatures are expected to be near 33.1 °C in Trinidad and 31.6 °C in Tobago. Mostly clear nights will give low temperatures of 22.8 °C in Trinidad and 23.8 °C in Tobago.

Over the ten-day period, Trinidad and Tobago's highest possible daily rainfall totals will range between 10.0 mm to 30.0 mm, with its ten-day totals ranging between 50.0 mm and 80.0 mm.

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