

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st -10th) of December, 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 Third Dekad (21st - 30th) of November, 2017.

Trinidad experienced moderate to heavy rainfall amounts over some areas, during day 21st, but scanty to moderate rainfall amounts over most areas, during days 22nd, 25th, 26th, 27th and 30th of the dekad, with its preliminary ten-day rainfall totals ranging between 12.0 mm and 78.7 mm. Piarco had a ten-day rainfall total of 28.9 mm, with similar amounts of rainfall in southwestern, western, and northwestern regions. However, near twice as much rainfall fell in north-eastern, eastern and south-eastern areas.

Tobago experienced moderate to heavy rainfall amounts over some areas during day 21st, but scanty to moderate rainfall amounts over most areas, during days 22nd, 24th, 25th, 26th and 30th of the dekad,

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with its preliminary ten-day rainfall totals ranging between 20.0 mm and 56.5 mm. Crown Point had a ten-day rainfall total of 56.5 mm with slightly below this amount reported in the central regions and less than half the amount reported in the northwestern areas.

Accompanying these conditions, the maximum temperature in Trinidad got up to 32.5 °C and minimum temperature of 22.2 °C. While, Tobago's temperatures went up to a maximum of 31.7 °C and minimum temperature of 24.2 °C.

Expected Weather for First Dekad (1st-10th) of December, 2017 and Likely Impact on Agriculture.

During days 3rd, 4th, 5th and 6th of the dekad, there is a 68% chance of a visitation of the Inter-Tropical Convergence Zone (ITCZ). This will produce patchy cloudy to cloudy periods at times and light to moderate rainfall, with possible thundershower activity. The forecast maximum temperatures during those days in Trinidad will be near 31.2 °C, while Tobago's forecast maximum temperatures will be near 30.3 °C. On the other hand, the forecast minimum temperatures during those days will be near 23.1 °C in Trinidad and near 23.5 °C in Tobago.

However, during days 1st, 2nd, 7th, 8th, 9th and 10th of dekad, there is a 70% chance that converging bands of moist air within the northeast trade winds, will generate mostly patchy cloudy skies with few brief light and/or occasionally moderate rainfall amounts. This will disperse to give sunny and/or hazy conditions at times. The maximum temperatures are expected to be near 32.8 °C in Trinidad and 31.1 °C in Tobago. Generally clear nights will give low temperatures of 21.4 °C in Trinidad and 22.3 °C in Tobago.

Over the ten-day period, Trinidad and Tobago's highest possible daily rainfall totals will range between 10.0 mm and 40.0 mm, with its ten-day totals ranging between 45.0 mm and 75.0 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 days. Also, there is a moderate probability of pest and diseases especially the spread of fungi on crops following those wet and humid days.

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Trinidad's Mean Daily Rainfall Forecast for the First Dekad of December (1st-10th) 2017.

Northern & Northwestern areas:

Moderate chance (65%) of mean daily rainfall up to 4.5 mm.

North-Eastern and Eastern areas:

Moderate chance (69%) of mean daily rainfall up to 7.1 mm.

Central, West-Central and inland areas:

Moderate chance (67%) of mean daily rainfall up to 5.5 mm.

South-Eastern areas:

Moderate chance (70%) of mean daily rainfall up to 7.5 mm.

Southern areas:

Moderate chance (68%) of mean daily rainfall up to 6.3 mm.

South-Western areas:

Moderate chance (67%) of mean daily rainfall up to 5.6 mm.

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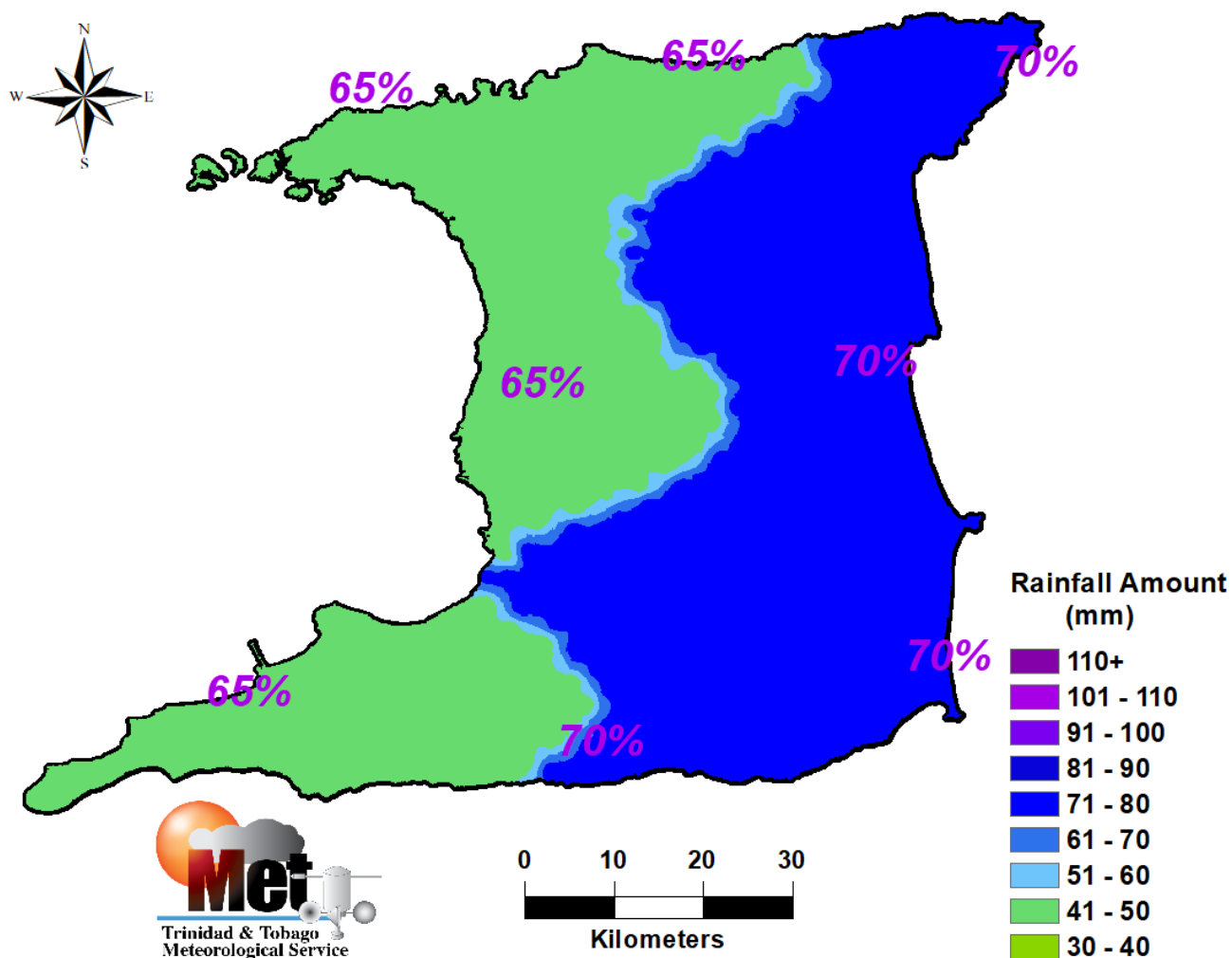


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during first dekad of December, 2017 and percentage probability of occurrence.

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Tobago's Mean Daily Rainfall Forecast for the First Dekad of December (1st-10th) 2017.

Northeastern areas:

Moderate chance (69%) of mean daily rainfall up to 6.7 mm.

South-Western areas:

Moderate chance (69%) of mean daily rainfall up to 6.7 mm.

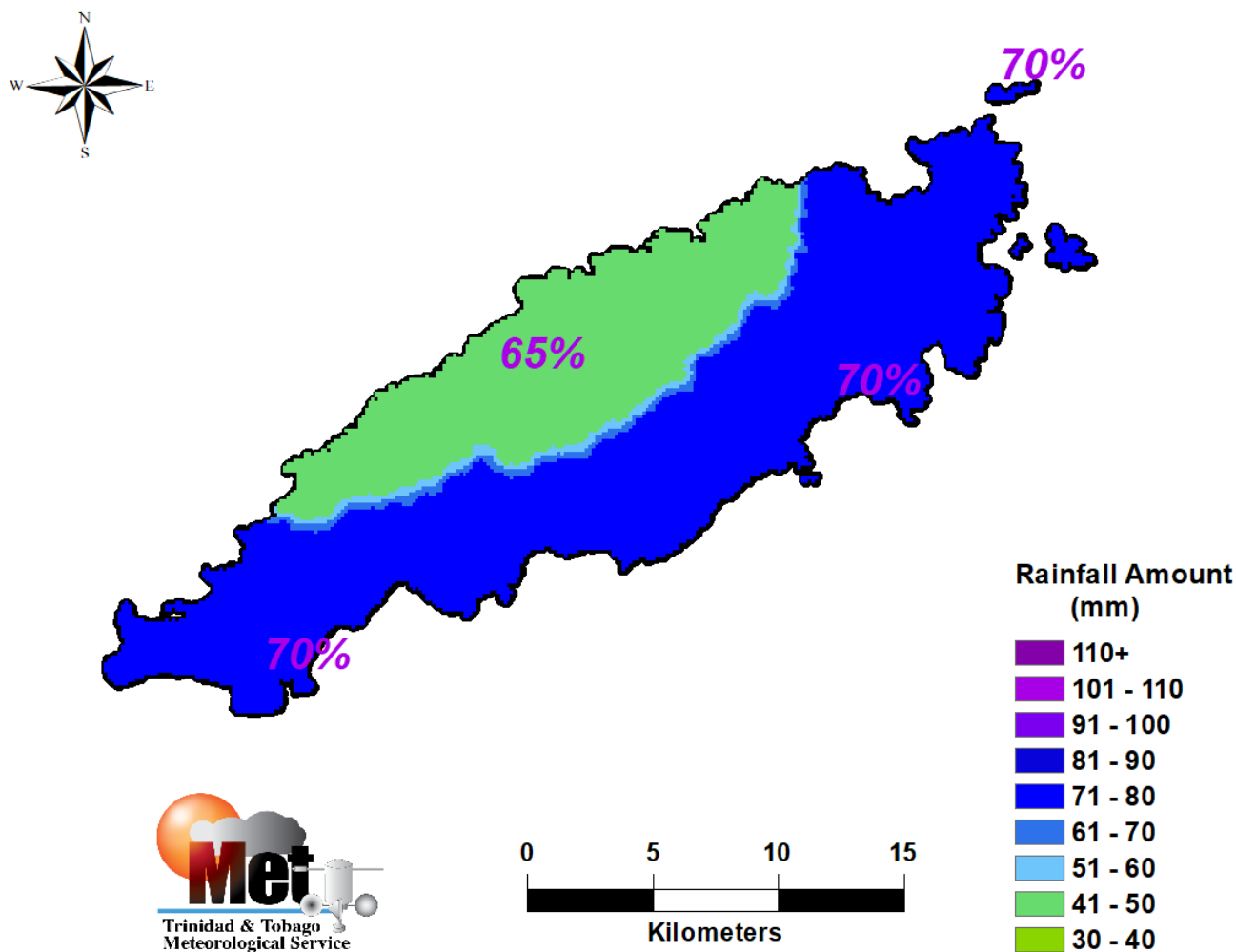


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during first dekad of December, 2017 and percentage probability of occurrence.

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Temperatures:

Trinidad's Temperature Forecast for the First Dekad of December (1st-10th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.2 °C, peaking near 32.8 °C.

Moderate chance (70%) of daily minimum temperatures to be below 23.1 °C, dropping as low as 21.4 °C.

Tobago's Temperature Forecast for the First Dekad of December (1st-10th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 30.3 °C, peaking near 31.1 °C.

Moderate chance (70%) of daily minimum temperatures to be below 23.5 °C, dropping as low as 22.3 °C.

Summary:

During days 3rd, 4th, 5th and 6th of the dekad, there is a 68% chance of a visitation of the Inter-Tropical Convergence Zone (ITCZ). This will produce patchy cloudy to cloudy periods at times and light to moderate rainfall, with possible thundershower activity. The forecast maximum temperatures during those days in Trinidad will be near 31.2 °C, while Tobago's forecast maximum temperatures will be near 30.3 °C. On the other hand, the forecast minimum temperatures during those days will be near 23.1 °C in Trinidad and near 23.5 °C in Tobago.

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