

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

Mixed conditions dominated Trinidad and Tobago over the majority of the dekad where the islands experienced patchy cloudiness to cloudy periods at times and moderate to heavy rainfall events.

Trinidad experienced moderate to heavy rainfall amounts over most areas during days 23rd, 24th, 27th and 28th with its ten-day rainfall totals ranging between 30.0 mm and 105.0 mm.

However, Tobago experienced moderate to heavy rainfall amounts over most areas during days 23rd, 25th and 28th of the dekad, with its ten-day rainfall totals ranging between 50.0 mm and 70.0 mm.

Accompanying these conditions maximum temperatures in Trinidad got up to 32.9 °C and minimum

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temperatures of 22.9 °C. Whereas, Tobago's temperatures went up to a maximum of 31.4 °C and minimum temperature of 23.3 °C

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

During days; 1st, 2nd, 3rd, 9th and 10th of the dekad, there is a 68% chance of a low level moist southeasterly wind flow establishing itself over both islands producing patchy cloudy to cloudy periods with mostly light to moderate occasionally heavy showers or a possible thundershower at times. The forecast maximum temperatures in Trinidad will be near 31.5 °C, while Tobago's forecast maximums will be near 30.5 °C with forecast minimums near 23.8 °C in Trinidad and near 24.4 °C in Tobago.

During days 4th, 5th, 6th, 7th and 8th of the dekad, expect mostly patchy cloudy skies with seldom cloudy periods and a 35% chance of few brief light showers which will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 32.8 °C in Trinidad and 31.5 °C in Tobago. Generally clear nights will give low temperatures of 22.7 °C in Trinidad and 23.1 °C in Tobago.

Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 10.0 mm to 35.0 mm, with its ten-day totals ranging between 40.0 mm and 80.0 mm, as seen in figures 1. While Tobago's highest possible daily rainfall totals will range between 10.0 mm to 31.0 mm, with its ten-day totals ranging between 40.0 mm and 60.0 mm, as seen in figures 2.

Waterlogged soils are expected over few areas, flash flooding on streets at times, riverine and flooding in low lying areas are highly probable during those very wet and humid days. Also there may be an increase chance of pest and diseases especially the spread of fungi on crops following those wet and humid days.

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

Northern & Northwestern areas:

Moderate chance (64%) of mean daily rainfall up to 5.7 mm.

North-Eastern and Eastern areas:

Moderate chance (70%) of mean daily rainfall up to 8.0 mm.

Central, West-Central and inland areas:

Moderate chance (64%) of mean daily rainfall up to 5.8 mm.

South-Eastern areas:

Moderate chance (69%) of mean daily rainfall up to 7.7 mm.

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Southern areas:

Moderate chance (65%) of mean daily rainfall up to 5.8 mm.

South-Western areas:

Moderate chance (61%) of mean daily rainfall up to 4.6 mm.

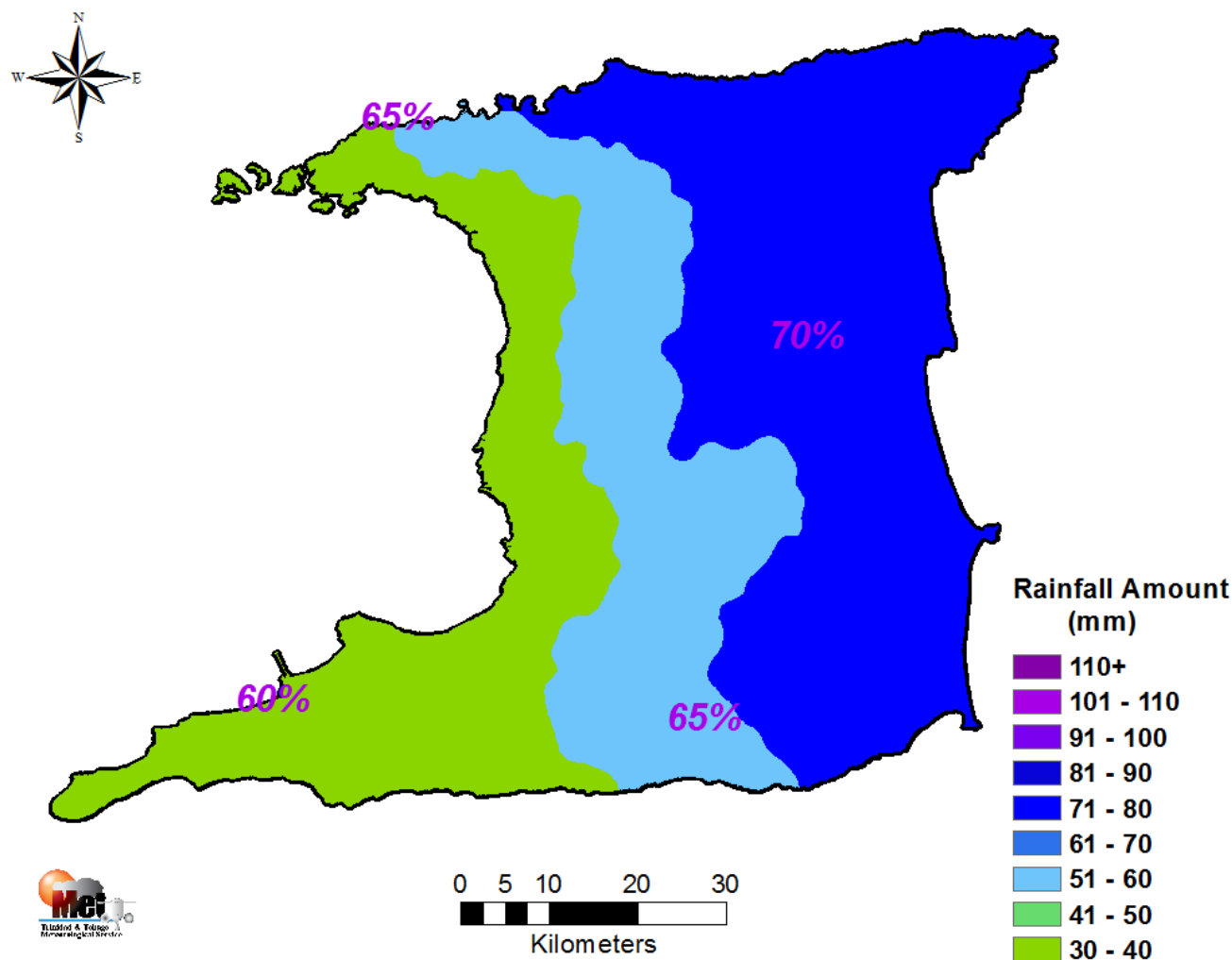


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during First dekad of July, 2017 and percentage probability of occurrence.

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

Northeastern areas:

Moderate chance (69%) of mean daily rainfall up to 5.8 mm.

South-Western areas:

Moderate chance (66%) of mean daily rainfall up to 5.2 mm.

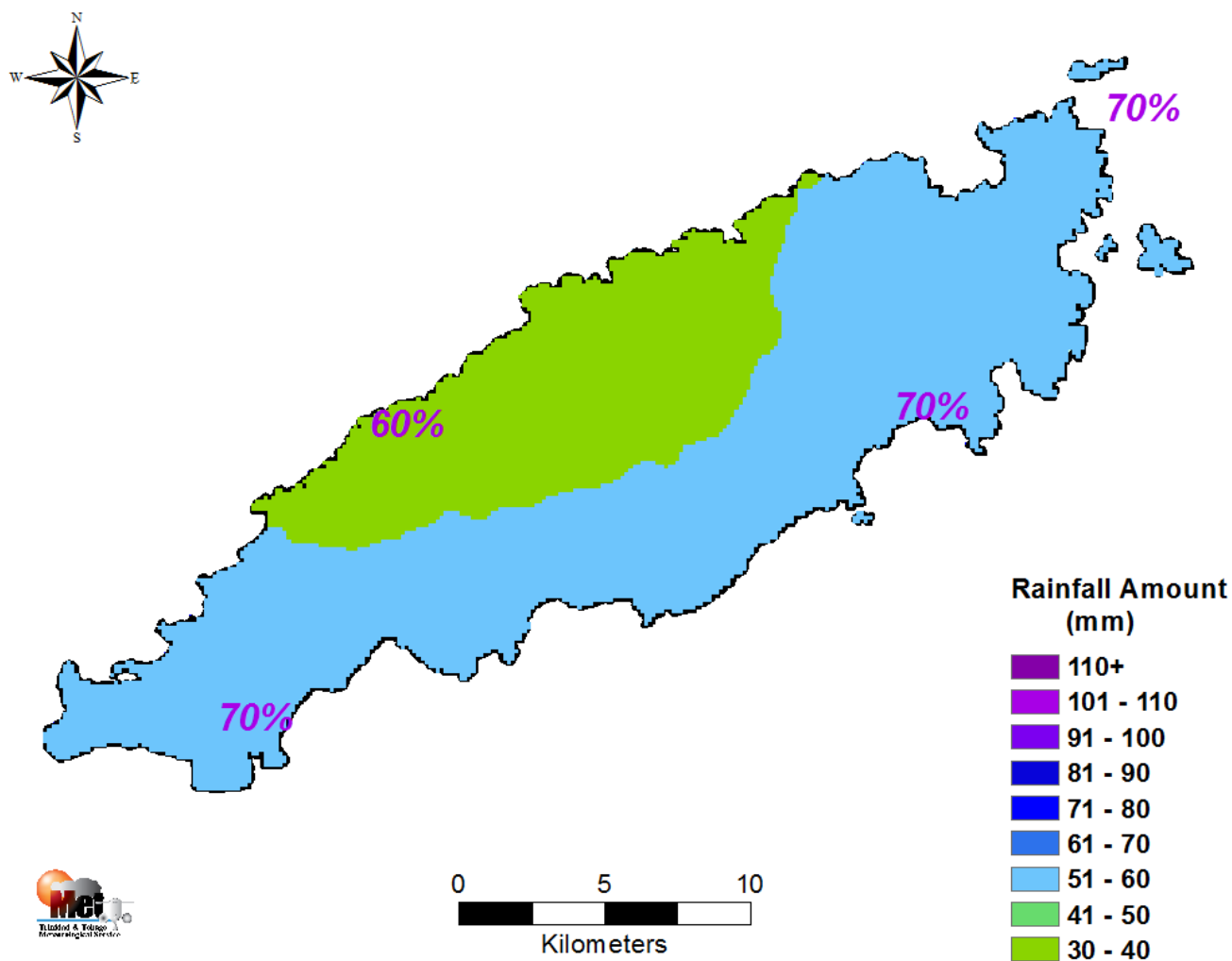


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during First dekad of July, 2017 and percentage probability of occurrence.

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Temperatures:

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

Moderate chance (70%) of daily maximum temperatures to exceed 31.5⁰C, peaking near 32.8⁰C.

Moderate chance (70%) of daily minimum temperatures to be below 23.8⁰C, dropping as low as 22.7⁰C.

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

Moderate chance (70%) of daily maximum temperatures to exceed 30.5⁰C, peaking near 31.5⁰C.

Moderate chance (70%) of daily minimum temperatures to be below 24.4⁰C, dropping as low as 23.1⁰C.

Summary:

The second month of the rainy season is upon us, having said that, during days; 1st, 2nd, 3rd, 9th and 10th of the dekad, there is a 68% chance of a low level moist southeasterly wind flow establishing itself over both islands producing patchy cloudy to cloudy periods with mostly light to moderate occasionally heavy showers or a possible thundershower at times. The forecast maximum temperatures in Trinidad will be near 31.5⁰C, while Tobago's forecast maximums will be near 30.5⁰C with forecast minimums near 23.8⁰C in Trinidad and near 24.4⁰C in Tobago.

However, some improvement is expected during days 4th, 5th, 6th, 7th and 8th of the dekad, expect mostly patchy cloudy skies with seldom cloudy periods and a 35% chance of few brief light showers which will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 32.8⁰C in Trinidad and 31.5⁰C in Tobago. Generally clear nights will give low temperatures of 22.7⁰C in Trinidad and 23.1⁰C in Tobago.

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Waterlogged soils are expected over few areas, flash flooding on streets at times, riverine and flooding in low lying areas are highly probable during those very wet and humid days. Also there may be an increase chance of pest and diseases especially the spread of fungi on crops following those wet and humid days.

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