

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Third Dekad (21st -30th) of June, 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 Second Dekad (11th -20th) 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, with moderate to very heavy rainfall events. Trinidad and Tobago experienced moderate to heavy rainfall amounts over most areas during days 13th, 15th, 16th, 19th and 20th. Particularly on days 19th and 20th, Trinidad experienced rain and/or showers that produced mostly moderate to very heavy rainfall amounts over all areas due to the passage of tropical storm Bret. Its ten-day rainfall totals ranging between 70.0 mm and 190.0 mm.

However, Tobago experienced moderate to heavy rainfall amounts over most areas during days 15th, 18th and particularly on days 19th and 20th of the dekad, due to the passage of tropical storm Bret. Its

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ten-day rainfall totals ranging between 70.0 mm and 120.0 mm. Accompanying these conditions maximum temperatures in Trinidad got up to 32.6 °C and minimum temperatures of 23.3 °C. Whereas, Tobago's temperatures went up to a maximum of 32.1 °C and minimum temperature of 23.3 °C

Expected Weather for Third Dekad (21st – 30th) of June, 2017 and Likely Impact on Agriculture.

On days 21st, 22nd, 23rd and possibly on the 24th, stakeholders and particularly farmers in both Trinidad and Tobago should expect patchy cloudiness to cloudy periods and a 60% chance of brief light to moderate showers at times, producing scanty to moderate rainfall amounts. The cloudy periods will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 32.6 °C in Trinidad and 31.7 °C in Tobago. Few clear nights will give low temperatures of 22.8 °C in Trinidad and 23.3 °C in Tobago.

However, on days 25th, 26th, 27th, 28th, 29th and 30th of the dekad, there is a 70% chance of a low level moist southeasterly wind flow establishing itself over both islands producing patchy cloudy to cloudy periods with light to moderate occasionally heavy showers or thundershowers at times. Over the ten-day period, both islands highest possible daily rainfall totals will range between 40.0 mm to 75.0 mm, with its ten-day totals ranging between 60.0 mm and 100.0 mm, as seen in figures 1 and 2.

During days: 25th, 26th, 27th, 28th, 29th and 30th, the forecast maximum temperatures in Trinidad will be near 31.3 °C, while Tobago's forecast maximums will be near 30.6°C, forecast minimums will be near 24.0°C in Trinidad and will be near 24.6 °C in Tobago. Waterlogged soils are expected over most 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 Third Dekad of June (21st-30th) 2017.

Northern & Northwestern areas:

Moderate chance (67%) of mean daily rainfall up to 8.9 mm.

North-Eastern and Eastern areas:

Moderate chance (70%) of mean daily rainfall up to 10.0 mm.

Central, West-Central and inland areas:

Moderate chance (64%) of mean daily rainfall up to 7.9 mm.

South-Eastern areas:

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Moderate chance (70%) of mean daily rainfall up to 9.9 mm.

Southern areas:

Moderate chance (65%) of mean daily rainfall up to 7.7 mm.

South-Western areas:

Moderate chance (65%) of mean daily rainfall up to 6.1 mm.

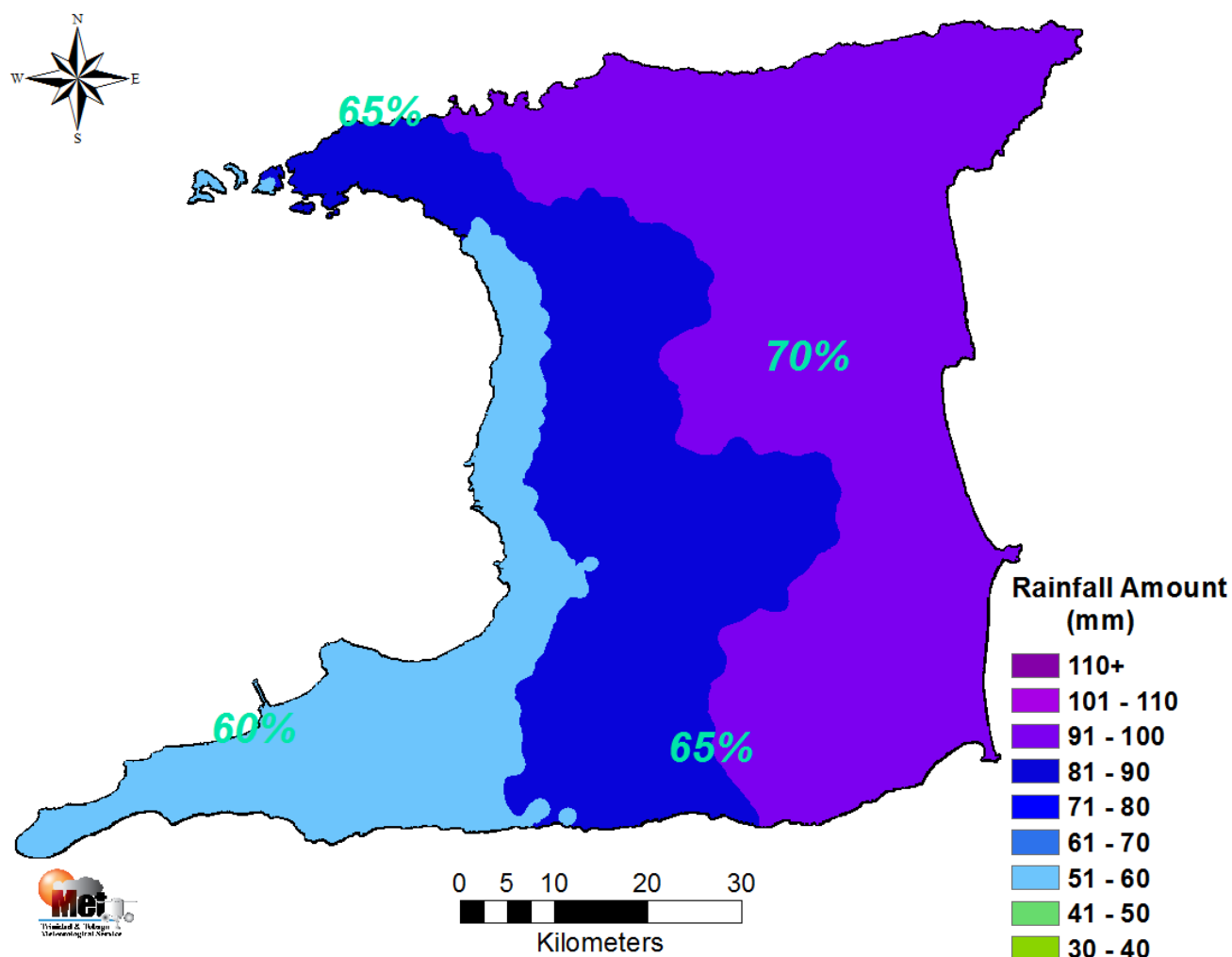


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during Third dekad of June, 2017 and percentage probability of occurrence.

Tobago's Mean Daily Rainfall Forecast for the Third Dekad of June (21st -30th) 2017.

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Northeastern areas:

Moderate chance (69%) of mean daily rainfall up to 9.8 mm.

South-Western areas:

Moderate chance (68%) of mean daily rainfall up to 9.5 mm.

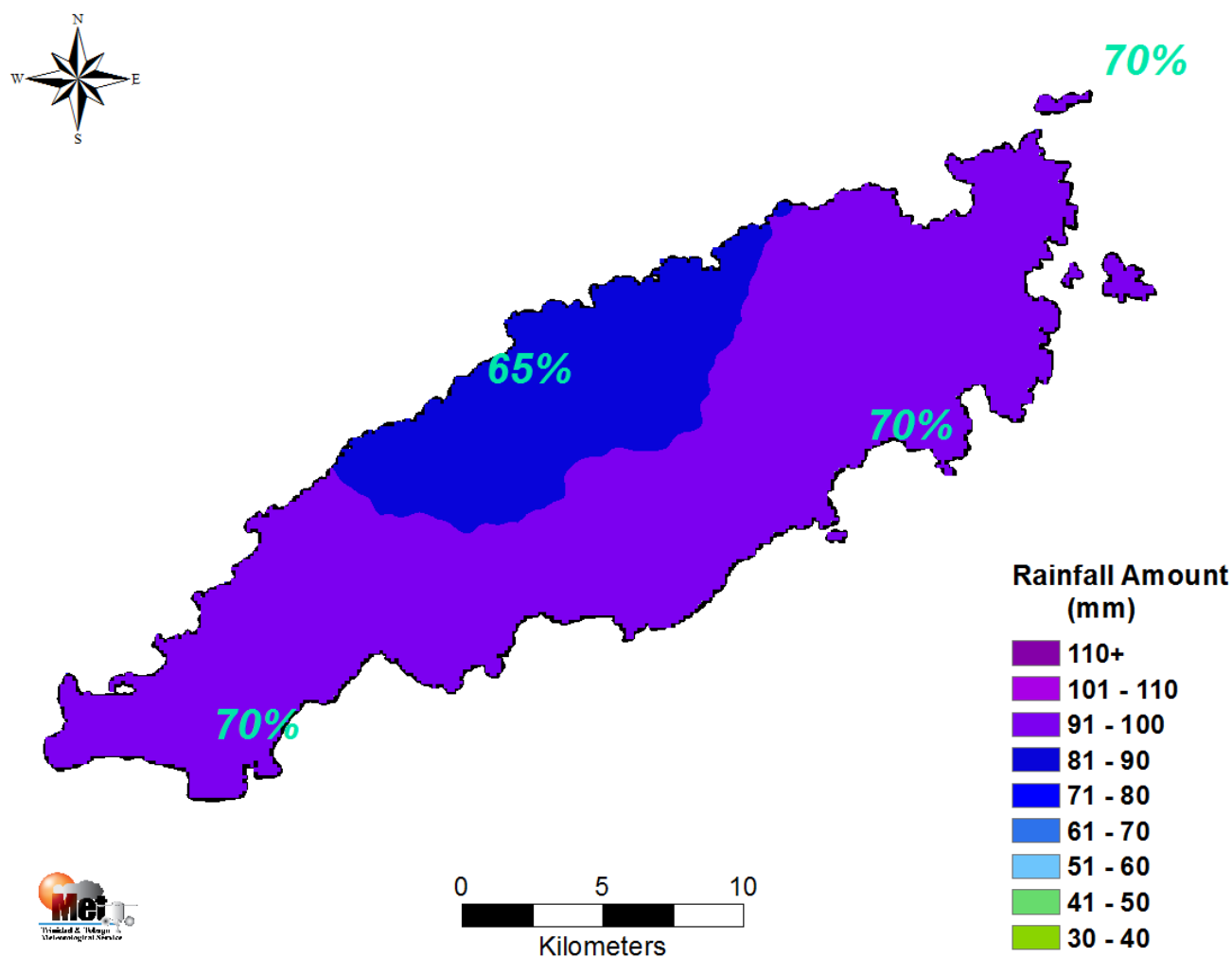


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during Third dekad of June, 2017 and percentage probability of occurrence.

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Temperatures:

Trinidad's Temperature Forecast for the Third Dekad of June (21st-30th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.3⁰C, peaking near 32.6 ⁰C.

Moderate chance (70%) of daily minimum temperatures to be below 24.0 ⁰C, dropping as low as 22.8 ⁰C.

Tobago's Temperature Forecast for the Third Dekad of June (21st-30th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 30.6 ⁰C, peaking near 31.7⁰C.

Moderate chance (70%) of daily minimum temperatures to be below 24.6 ⁰C, dropping as low as 23.3 ⁰C.

Summary:

The rainy season is upon us, having said that, on days 21st, 22nd, 23rd and possibly on the 24th, stakeholders and particularly farmers in both Trinidad and Tobago should expect patchy cloudiness to cloudy periods and a 60% chance of brief light to moderate showers at times, producing scanty to moderate rainfall amounts. The cloudy periods will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 32.6 ⁰C in Trinidad and 31.7 ⁰C in Tobago. Few clear nights will give low temperatures of 22.8 ⁰C in Trinidad and 23.3 ⁰C in Tobago.

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