

## Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11<sup>th</sup> -20<sup>th</sup>) of July, 2017.

### Definitions used in the forecast and bulletin:

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

### Weather Assessment for the First Dakad (1<sup>st</sup> -10<sup>th</sup>) of July, 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 especially over northern and northwestern areas during days 3<sup>rd</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> with its ten-day rainfall totals ranging between 24.0 mm and 93.0 mm.

However, Tobago experienced moderate to heavy rainfall amounts over most areas during days 1<sup>st</sup>, 2<sup>nd</sup>, 6<sup>th</sup> and 8<sup>th</sup> of the dekad, with its ten-day rainfall totals ranging between 38.0 mm and 48.0 mm. Accompanying these conditions maximum temperatures in Trinidad got up to 33.8 °C and minimum

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temperatures of 23.5 °C. Whereas, Tobago's temperatures went up to a maximum of 31.8 °C and minimum temperature of 23.9 °C

### **Expected Weather for Second Dekad (11<sup>th</sup> – 20<sup>th</sup>) of July, 2017 and Likely Impact on Agriculture.**

During days 11<sup>th</sup>, 12<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> of the dekad, expect mostly patchy cloudy skies with seldom cloudy periods and a 35% chance of few brief light occasionally moderate showers which will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 33.5 °C in Trinidad and 32.0 °C in Tobago. Generally clear nights will give low temperatures of 22.7 °C in Trinidad and 23.1 °C in Tobago.

However, during days; 13<sup>th</sup>, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> of the dekad, there is a 68% chance of a low level moist southeasterly to easterly 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 31.4 °C, while Tobago's forecast maximums will be near 30.4 °C with forecast minimums near 23.7 °C in Trinidad and near 24.3 °C in Tobago.

Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 23.0 mm to 43.0 mm, with its ten-day totals ranging between 55.0 mm and 80.0 mm, as seen in figures 1. While Tobago's highest possible daily rainfall totals will range between 25.0 mm to 43.0 mm, with its ten-day totals ranging between 70.0 mm and 80.0 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 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 Second Dekad of July (11<sup>th</sup>-20<sup>th</sup>) 2017.**

#### **Northern & Northwestern areas:**

Moderate chance (67%) of mean daily rainfall up to 7.4 mm.

#### **North-Eastern and Eastern areas:**

Moderate chance (68%) of mean daily rainfall up to 7.9 mm.

#### **Central, West-Central and inland areas:**

Moderate chance (64%) of mean daily rainfall up to 6.4 mm.

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**South-Eastern areas:**

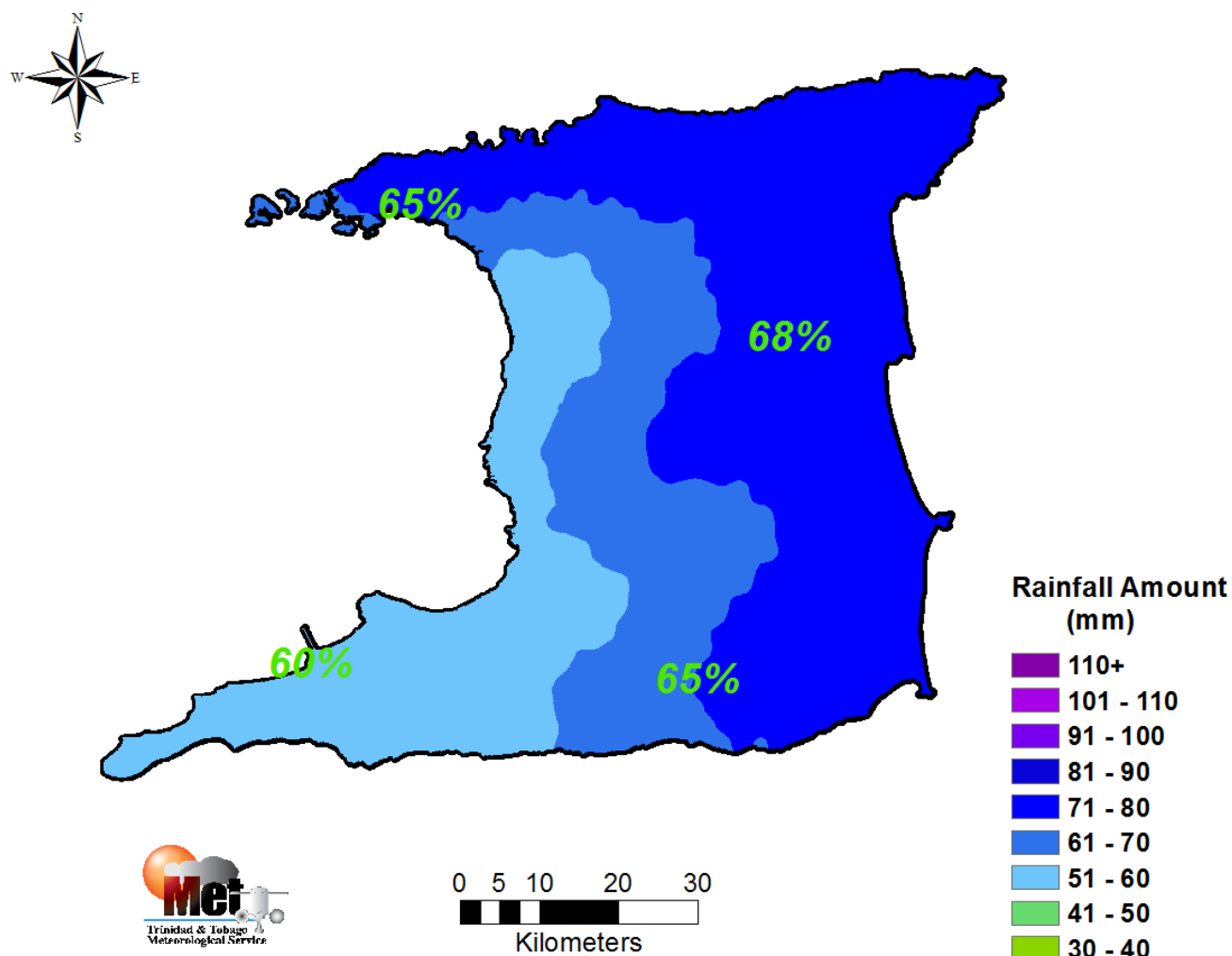
Moderate chance (67%) of mean daily rainfall up to 7.7 mm.

**Southern areas:**

Moderate chance (64%) of mean daily rainfall up to 6.6 mm.

**South-Western areas:**

Moderate chance (61%) of mean daily rainfall up to 5.8 mm.



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

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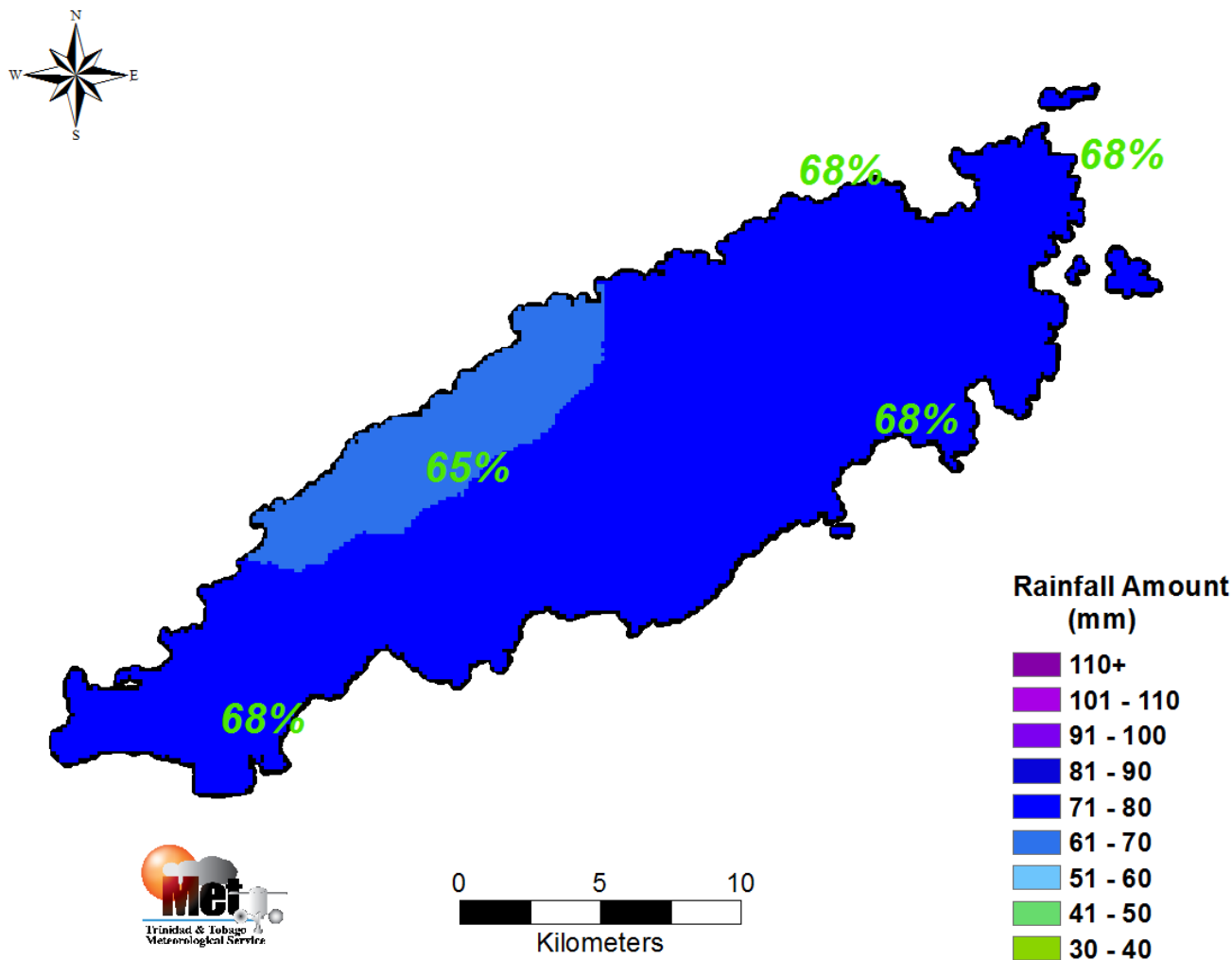
## Tobago's Mean Daily Rainfall Forecast for the Second Dekad of July (11<sup>th</sup> -20<sup>th</sup>) 2017.

**Northeastern areas:**

Moderate chance (68%) of mean daily rainfall up to 7.9 mm.

**South-Western areas:**

Moderate chance (67%) of mean daily rainfall up to 7.7 mm.



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

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## Temperatures:

### Trinidad's Temperature Forecast for the Second Dekad of July (11<sup>th</sup> -20<sup>th</sup>) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.6<sup>0</sup>C, peaking near 33.5 <sup>0</sup>C.

Moderate chance (70%) of daily minimum temperatures to be below 23.7 <sup>0</sup>C, dropping as low as 22.7 <sup>0</sup>C.

### Tobago's Temperature Forecast for the Second Dekad of July (11<sup>th</sup> -20<sup>th</sup>) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 30.6 <sup>0</sup>C, peaking near 32.0 <sup>0</sup>C.

Moderate chance (70%) of daily minimum temperatures to be below 24.3 <sup>0</sup>C, dropping as low as 23.1 <sup>0</sup>C.

## Summary:

The second month of the rainy season is upon us, having said that, during days 11<sup>th</sup>, 12<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> of the dekad, expect mostly patchy cloudy skies with seldom cloudy periods and a 35% chance of few brief light occasionally moderate showers which will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 33.5 <sup>0</sup>C in Trinidad and 32.0 <sup>0</sup>C in Tobago. Generally clear nights will give low temperatures of 22.7 <sup>0</sup>C in Trinidad and 23.1 <sup>0</sup>C in Tobago.

However, during days; 13<sup>th</sup>, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> of the dekad, there is a 68% chance of a low level moist southeasterly and easterly 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 31.4 <sup>0</sup>C, while Tobago's forecast maximums will be near 30.4 <sup>0</sup>C with forecast minimums near 23.7 <sup>0</sup>C in Trinidad and near 24.3 <sup>0</sup>C in Tobago.

Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 23.0 mm to 43.0 mm, with its ten-day totals ranging between 55.0 mm and 80.0 mm, as seen in figures 1. While Tobago's highest possible daily rainfall totals will range between 25.0 mm to 43.0 mm, with its ten-day totals ranging between 70.0 mm and 80.0 mm, as seen in figures 2.

Waterlogged soils are expected over few areas particularly northern and northwestern areas, flash flooding on streets at times, riverine and flooding in low lying areas are highly probable during those 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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