



# IMPACTS OF SEVERE WEATHER ON TRINIDAD AND TOBAGO

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## INTRODUCTION

Different categories of extreme events produced adverse impacts on Trinidad and Tobago.

This presentation highlights impactful weather in 2022 from:

- Tropical Cyclonic Systems
- Active Tropical Wave Activity
- Localized Convergence on the western coasts of the islands
- Inter-Tropical Convergence Zone

# POTENTIAL TROPICAL CYCLONE 2

## JUNE 2022



## ACTIVE TW STATEMENT ISSUED ON 26<sup>th</sup> JUNE 2022

### OFFICIAL STATEMENT #1

#### Active Tropical Wave

Date: Sunday 26th of June 2022

Issuance Time: 08:48:29 AM

The Trinidad and Tobago Meteorological Service (TTMS) has been monitoring the progress of a strong Tropical Wave in the Atlantic, which has the potential for cyclone development over the next few days.

At 8:05am today (Sunday 26 June, 2022), the tropical wave is located in the central Atlantic. Its axis is along 40W/41W, south of 16N. It is moving westward at 28km/h. A weak cyclonic circulation is along the wave axis near 08N41W. Convection of the numerous moderate to strong type increased during the overnight hours. Environmental conditions appear conducive for further development, and a tropical depression is likely to form during the early to middle part of the upcoming week.

This system is forecast to continue on a westward track over the tropical Atlantic, approaching the Windward Islands on Tuesday then move across the south-eastern Caribbean Sea on Wednesday and Thursday. Interests in the Windward Islands should closely monitor the progress of this system. The chance of tropical cyclone formation is medium (40%) during the next 48hours, but high (70%) over the next 5 days (refer to Figure 1).

Regardless of intensification or development of the system significant moisture and peripheral instability will bring heavy rainfall and gusty winds to Trinidad and Tobago and the Windward Islands from Tuesday night into Wednesday morning.

There are no watches or warnings in effect at this time.

The TTMS will continue to closely monitor this system and will issue an update at 6:00 pm today (26 June, 2022) or earlier if the situation warrants. As always, pay close attention to information being issued by the TTMS by visiting [www.metoffice.gov.tt](http://www.metoffice.gov.tt), downloading our mobile app (search: TT Met Office) and following us on Twitter, Facebook and Instagram.



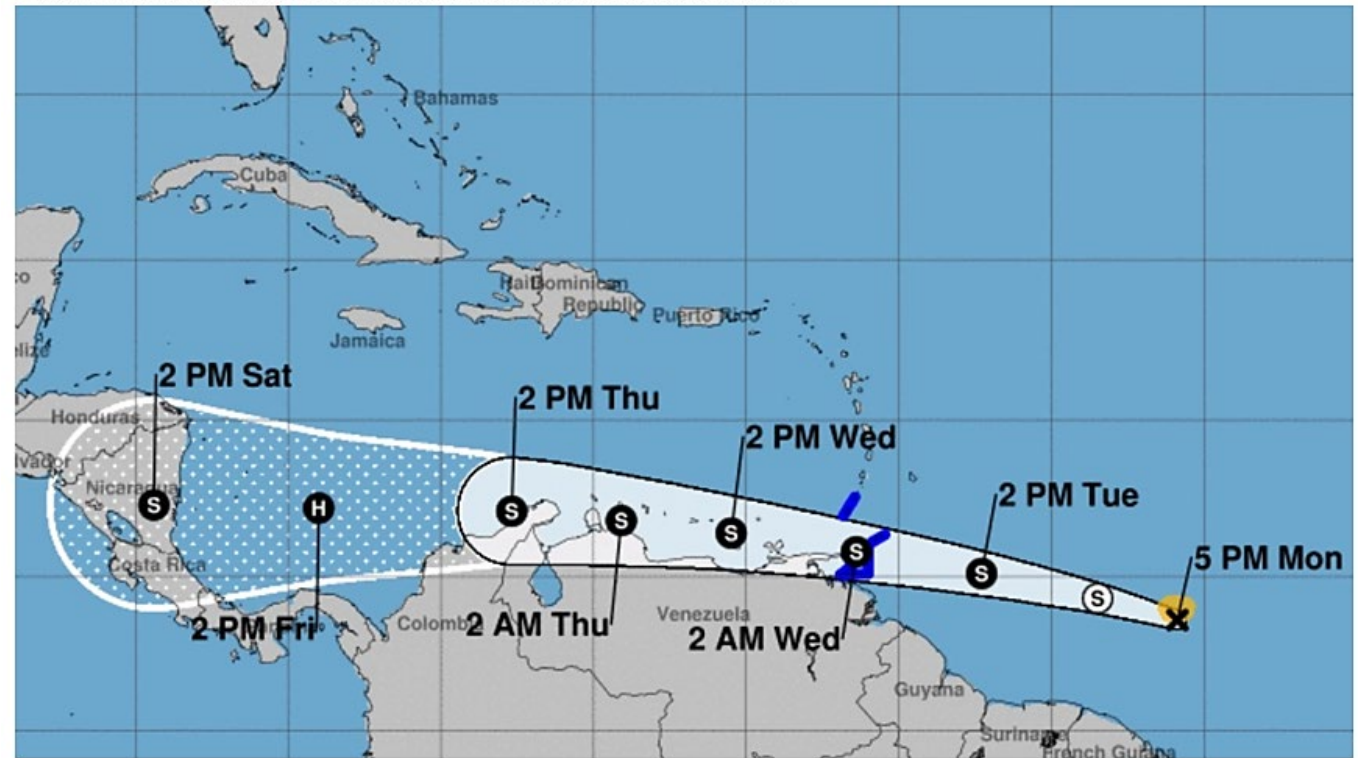
## TW ATTAINS STATUS OF POTENTIAL CYCLONE #2 JUNE 27<sup>TH</sup> TRIGGERS TROPICAL STORM WARNING IN T & T

PTC 2 was initially expected to cross the southernmost Lesser Antilles on the 29<sup>th</sup> (Wednesday) as a TD or weak TS.

On the 27<sup>th</sup> (Monday) max sustained winds were 34kt but located at about 720 miles east of Trinidad but it lacked a closed low-level circulation to enable classification as a tropical cyclone.

NHC's forecast was that PTC 2 would develop into a Tropical Storm on Tuesday 28<sup>th</sup> June,

5 p.m. EDT Monday, June 27, 2022. (Image credit: [NOAA/NWS/NHC](#))







# TROPICAL STORM WARNING #1



**TRINIDAD AND TOBAGO  
METEOROLOGICAL SERVICE**  
SYNOPTIC BRANCH  
Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727  
Email: [synop@metoffice.gov.tt](mailto:synop@metoffice.gov.tt) | Website: [www.metoffice.gov.tt](http://www.metoffice.gov.tt)

F 852-24

## PUBLIC WARNING MESSAGE

<b>Date:</b>	2022/06/27	<b>Issuance Time:</b>	05:30 PM
<b>Event:</b>	Tropical Storm	<b>Message Type:</b>	Alert
<b>Headline:</b>	<b>TROPICAL STORM WARNING #1 – ORANGE LEVEL</b>		
<b>Area Description:</b>	Trinidad & Tobago		
<b>Start Date/Time:</b>	2022/06/28 08:00 PM	<b>End Date/Time:</b>	2022/06/29 05:00 PM
<b>Urgency:</b>	Expected	<b>Response:</b>	Prepare
<b>Severity:</b>	Severe	<b>Certainty:</b>	Likely

<b>Description:</b>	The Tropical wave located east of Trinidad and Tobago has been upgraded to Potential Tropical Cyclone #2 (TC#2). This means that the system is not yet a Tropical Cyclone but has the potential to intensify in a TC in short notice. As a result, Trinidad and Tobago has been put under a Tropical Storm Warning. A Tropical Storm Warning means that storm conditions are likely over the warning area within 36 hours. Periods of heavy to intense showers and/or thunderstorms are likely, which can result in rainfall accumulations in excess of 3 inches. Gusty winds in excess of 70km/hr can be expected. These wind gusts are capable of breaking tree branches, displacing unsecured roofs and loose outdoor objects, and can even topple over unhealthy trees. The risk of landslides/landslips is likely in areas so prone and sea conditions can become occasionally rough. An update will be issued at 8pm.
<b>Instructions:</b>	Prepare to protect lives, livelihood, and property. Plan your evacuation to a shelter if it becomes necessary. Always have emergency supplies of food and water on standby. Secure loose outdoor items and livestock. Do not wade or drive through flood waters. Pre-position sandbags if your area floods and monitor river levels. Follow the instructions of Government Officials. More information: <a href="http://www.metoffice.gov.tt/">www.metoffice.gov.tt/</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>
<b>&lt;END&gt;</b>	

*The TTMS also placed Grenada and it's Dependencies under a Tropical Storm Warning.*

## PTC2 – IMPACTS - TRINIDAD

The usually shallow and lazy river running through the north coast village of Grande Riviere, became a raging torrent late Wednesday because of the rainfall in the mountains.



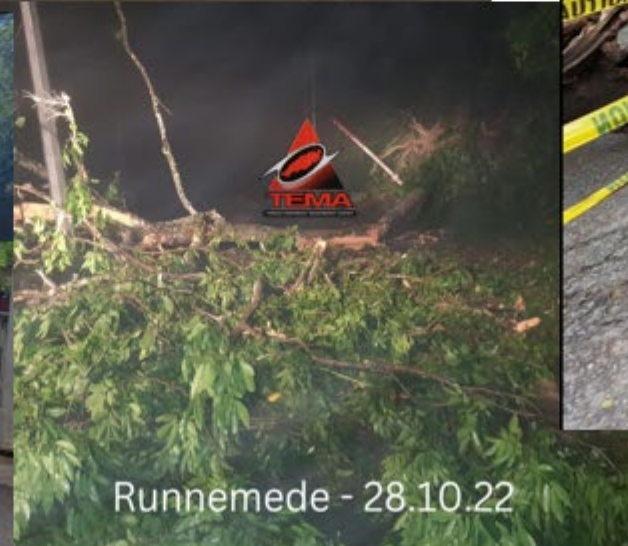
**Update June 29, 8:30 am:**  
The Trinidad and Tobago Electricity Commission (T&TEC) said there are still some areas undergoing repairs as of Wednesday morning, following the passage of weather system Potential Tropical Cyclone #2.

This is to advise that as at 6:00 AM we have approximately five areas out across the country. These reports would have come in after our final update at 11:00 PM last night. The areas are Williamsville, Orange Hill and Studley Park in Tobago, Sangre Chiquito and Mt Dor. Crews are responding to those reports at this time.



## PTC2 – IMPACTS - TOBAGO

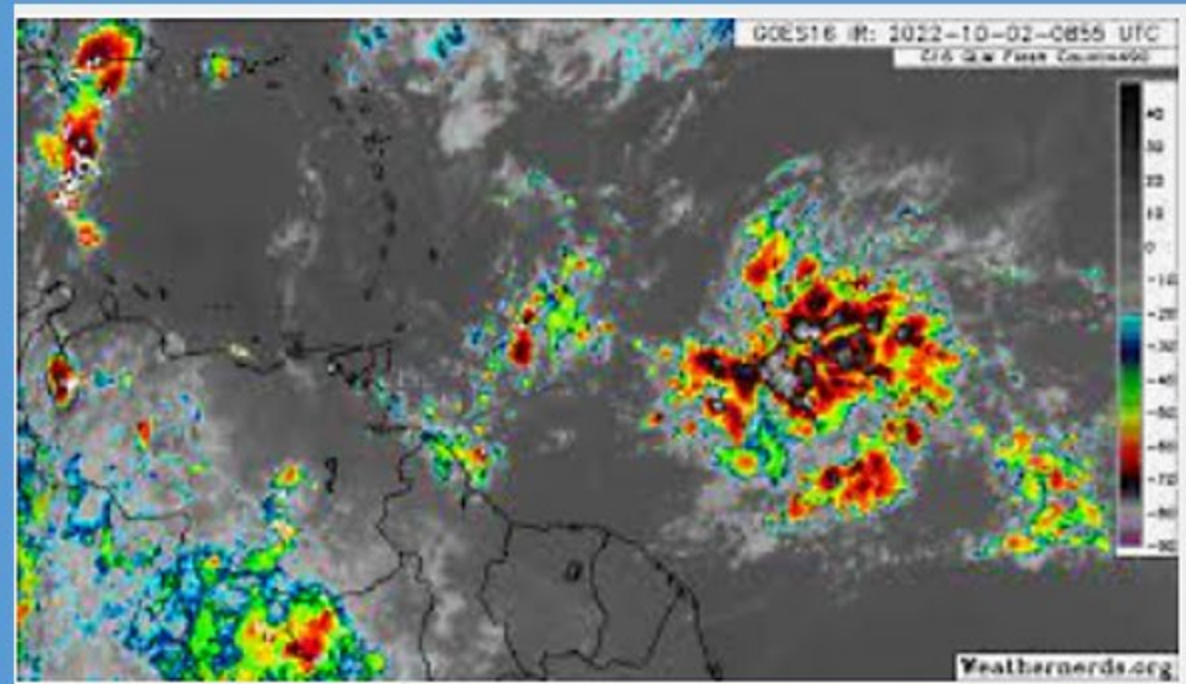
Update June 29, 8:30 am:  
The Trinidad and Tobago  
Electricity Commission (T&TEC)  
said there are still some areas  
undergoing repairs as of  
Wednesday morning, following  
the passage of weather system  
Potential Tropical Cyclone #2.  
“The area with the most activity  
overnight was Tobago, with seven  
area outages.”





# ACTIVE TROPICAL WAVE INVEST 91L

## OCT 5<sup>th</sup> – 8<sup>th</sup> 2022



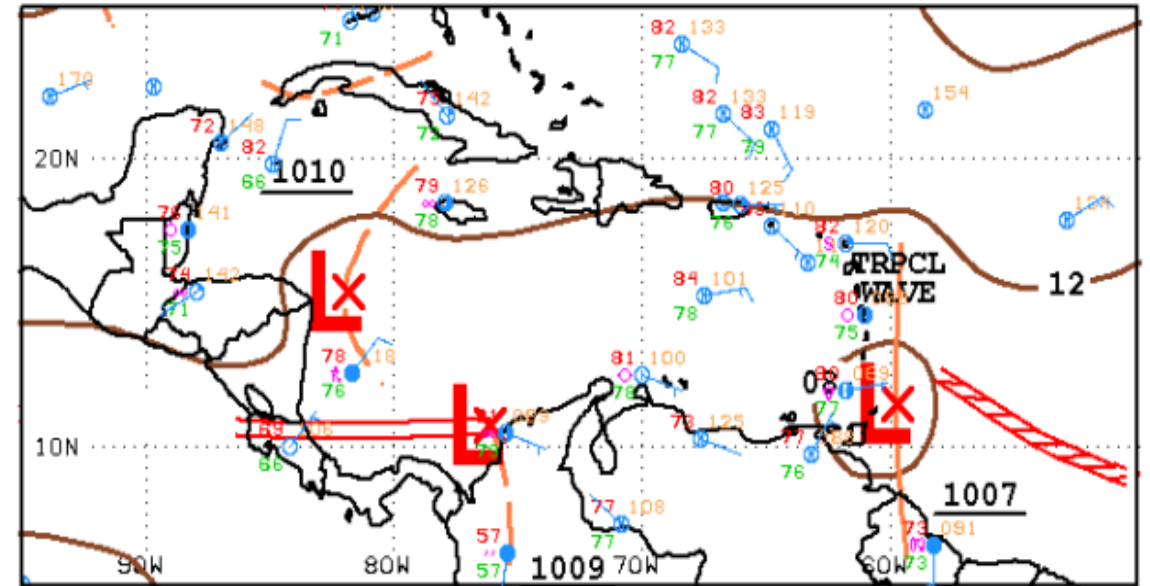
## ACTIVE TROPICAL WAVE 5<sup>TH</sup> OCTOBER (INVEST 91L)

On 5th October the TW and associated 1007mb low was located near 100 km east of Trinidad and Tobago.

Movement was westwards at 12kt.

Satellite imagery showed deep convective clusters.

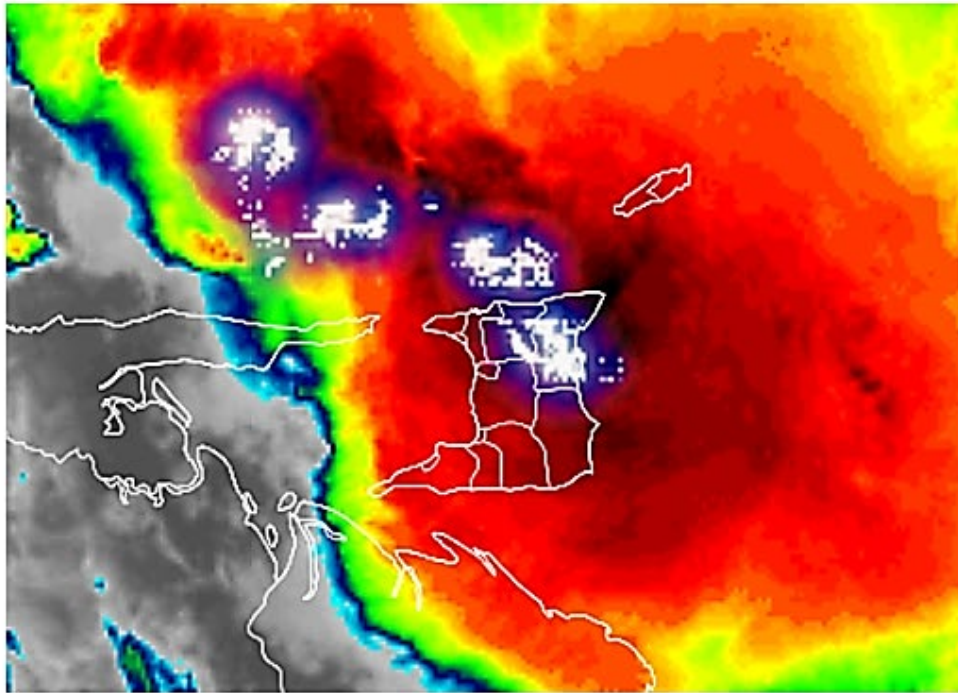
There was significant strong thunderstorm activity and accompanying lightning over both Trinidad and Tobago.



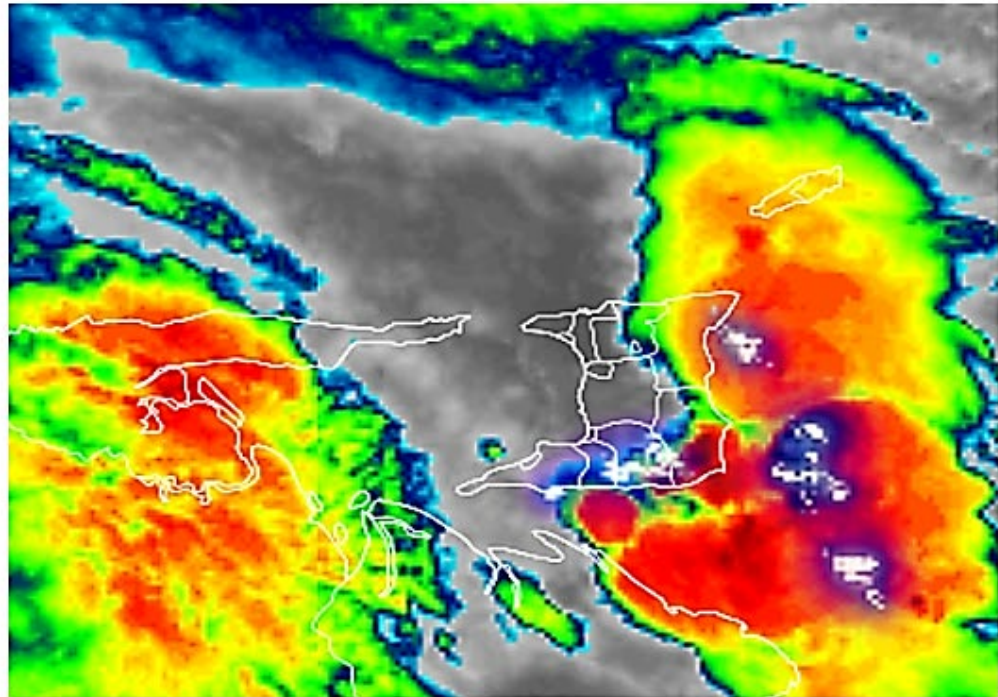
06Z CARIBBEAN SURFACE ANALYSIS  
ISSUED:  
Wed Oct 5 08:36:05 UTC 2022

NATIONAL HURRICANE CENTER  
MIAMI, FLORIDA  
BY TAFB ANALYST: PC  
COLLABORATING CENTERS: NHC OPC

## ACTIVE TROPICAL (INVEST 91L) WAVE 5<sup>TH</sup> OCTOBER 2022



**2022-10-05  
13:30:20 UTC**



**2022-10-06  
08:10:20 UTC**



# ACTIVE TROPICAL WAVE 5<sup>TH</sup> (INVEST 91L) to 8<sup>th</sup> OCTOBER 2022

## EARLY PUBLIC ADVISORIES FROM THE 2<sup>nd</sup> OCTOBER 2022

Date: Sunday 2nd of October 2022 Issuance time: 01:57:39 PM

### GENERAL STATEMENT #1

#### Active Tropical Wave east of the Windward Islands

The Trinidad and Tobago Meteorological Service is monitoring the tropical wave to the east of the Windward Islands. On Sunday 2nd October 2022, this tropical wave was located near 47/48W or about 1300 km east of the Windward Islands and moving to the west at 10-16 km/hr. The National Hurricane Centre has given this tropical wave a (low) 20% chance of developing to a Tropical Cyclone in 48 hours and (low) 30% chance of development in five (5) days. Regardless of development, moist and unstable conditions would exist over the islands. Trinidad and Tobago would experience cloudy skies with intermittent periods of showers and a medium to high chance of thunderstorm activity. These conditions can persist from the middle of this week and into the start of the weekend due to the approach and passage of this tropical wave.

At present, there are no alerts, watches or warnings in effect for Trinidad and Tobago.

The TTMS continues to monitor this tropical wave and will issue and update at 12:00 pm tomorrow (03rd October 2022) or earlier if the situation warrants. As always, pay close attention to information being issued by the TTMS by visiting [www.metoffice.gov.tt](http://www.metoffice.gov.tt), downloading our mobile app (search: TT Met Office) and following us on Twitter, Facebook and Instagram.



### PUBLIC WARNING MESSAGE

Date:	2022/10/04	Issuance Time:	11:51 AM
Event:	Adverse Weather	Message Type:	Alert
Headline:	ADVERSE WEATHER ALERT #1 YELLOW LEVEL		
Area Description:	Trinidad and Tobago and surrounding areas.		
Start Date/Time:	2022/10/05 05:00 AM	End Date/Time:	2022/10/07 12:00 PM
Urgency:	Expected	Response:	Monitor
Severity:	Moderate	Certainty:	Likely
Description:	Periods of rain and showers of varying intensities are expected from early morning (05th October 2022) commencing over Tobago and eastern areas of Trinidad as an active tropical wave traverses westward over our area. There is also a 70% (high) chance of heavy showers and thunderstorms that can produce intense rainfall in excess of 25mm. Gusty winds in excess of 55 km/h may be experienced especially in the vicinity of heavy showers/thunderstorms. Street/flash flooding and localized ponding are also likely in heavy downpours. Seas can become agitated at times in sheltered areas. Landslides/landslips are also possible in areas so prone.		
Instructions:	Do not wade or drive through flood waters. Secure loose outdoor items and livestock. Monitor weather conditions and official updates. More information: <a href="http://www.metoffice.gov.tt">www.metoffice.gov.tt</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		
< END >			

GREEN	YELLOW	ORANGE	RED
Take no action	Monitor conditions	Secure yourself/property	Take shelter/evacuate

### PUBLIC WARNING MESSAGE

Date:	2022/10/05	Issuance Time:	05:35 AM
Event:	Flood	Message Type:	Alert
Headline:	RIVERINE FLOOD ALERT #1 YELLOW LEVEL		
Area Description:	Major water courses of Trinidad, including the Rio Oropouche, Caroni and South Oropouche. Water courses in Tobago including the Crooks and Darrell spring rivers.		
Start Date/Time:	2022/10/05 08:00 AM	End Date/Time:	2022/10/07 05:00 PM
Urgency:	Expected	Response:	Monitor
Severity:	Moderate	Certainty:	Likely
Description:	After today's rainfall event, river levels of the major watercourses across Trinidad continue to rise and are currently near 80% capacity. Weather conditions have since settled, however occasional periods of heavy showers are likely. This additional rainfall, in combination with spring tides, can keep the river levels elevated, so there remains a moderate risk to public safety, livelihood and property. Smaller water courses over both Trinidad and Tobago are also elevated and can burst their banks with additional rainfall.		
Instructions:	Carefully monitor weather conditions and river/water levels. Monitor updates from official sources and plan safety measures, including emergency supplies of food and water. Do not take unnecessary risks. Follow the instructions of government officials. More information: <a href="http://www.metoffice.gov.tt">www.metoffice.gov.tt</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		
< END >			

GREEN	YELLOW	ORANGE	RED
Take no action	Monitor conditions	Secure yourself/property	Take shelter/evacuate

PUBLIC AWARENESS  
Official Statement #1  
issued 2nd Oct

CAP ALERT  
Adverse Weather Alert #1  
issued 4th Oct

CAP ALERT  
Riverine Flood Alert #1  
issued 5th Oct

# FLASH AND RIVERINE FLOODS 5<sup>th</sup> & 6<sup>th</sup> OCTOBER 2022



TRINIDAD AND TOBAGO  
METEOROLOGICAL SERVICE  
SYNOPTIC BRANCH  
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Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt


F 852-24

## PUBLIC WARNING MESSAGE

Date:	2022/10/06	Issuance Time:	06:55 AM
Event:	Flood	Message Type:	Update
Headline:	<b>RIVERINE FLOOD ALERT #2 - ORANGE LEVEL</b>		
Area Description:	Major water courses of Trinidad, including the North Oropouche, Caroni and South Oropouche. Water courses in Tobago, including the Crooks and Darrell spring rivers.		
Start Date/Time:	2022/10/05 05:03 PM	End Date/Time:	2022/10/07 05:00 PM
Urgency:	Immediate	Response:	Prepare
Severity:	Severe	Certainty:	Observed
Description:	Continuous rainfall over night has pushed major water courses to critical thresholds and some may be close to overflowing or already doing so. Periods of heavy showers, rain and thunderstorms are still expected. This additional rainfall, in combination with spring tides, can keep the river levels elevated and there now exists a severe risk to public safety, livelihood and property. Smaller water courses over both Trinidad and Tobago are also elevated and can burst their banks with additional rainfall.		
Instructions:	Finalize preparations to protect lives, livelihoods, and property. Activate your safety plan. Secure food, water, and medicine for at least 7 days in waterproof containers. Protect important assets and documents. Do not take unnecessary risks. Follow the instructions of government officials. Monitor official sources for information. More information: <a href="http://www.metoffice.gov.tt">www.metoffice.gov.tt</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		


< END >

GREEN	YELLOW	ORANGE	RED
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RIVER LEVEL ADVISORY

6TH OCT 2022  
AS OF 12 NOON



**LOW TIDE** 08:14 PM  
**HIGH TIDE** 02:10 PM

**ARIPO RIVER - 32% CAPACITY**

**AROUCA - 49% CAPACITY**

**CAPARO - 67% CAPACITY**

**CARONI (BAMBOO SETTLEMENT #3) - 79% CAPACITY**

**EL CARMEN (CARONI RIVER) - 102% CAPACITY**

⚠


**NORTH OROPOUCHE (TOCO ROAD) - 85% CAPACITY**

**SOUTH OROPOUCHE - 73% CAPACITY**

**LEVEL%**

- 0-40
- 40-50
- 50-75
- 75-90
- 90-100

THE PUBLIC IS ENCOURAGED TO CALL RESPECTIVE CORPORATIONS' DISASTER MANAGEMENT UNITS HOTLINE  
Report based on latest information generated by Corporations' Disaster Management Units. All reported incidents will be sent to relevant authorities for assessment and dispatching relief.



@RDLGTT



## WIDESPREAD FLOODING 6<sup>th</sup> OCTOBER 2022



**Footage of flooding in Trinidad! Invest 91L impacted Trinidad & Tobago with Heavy rain and storms**

[#worldisdangerous](#) [#flooding](#) [#Trinidad](#)



**Cheryl-Ann Thomas looks at her Toyota Corolla car which was washed away by raging flood waters at Dunderhill Road, Arouca. Photo by Express photo editor Robert Taylor**



1 Death Reported - Lopinot Woman Swept Away By Floodwaters



## WIDESPREAD FLOODING 5<sup>th</sup> to 7<sup>th</sup> OCTOBER 2022

<https://trinidadexpress.com> › News Extra

### Woman swept away by floods in Lopinot - Trinidad Express

5 Oct 2022 — Police are searching for a 44-year-old woman who was swept away this afternoon while attempting to cross a ravine.

<https://guardian.co.tt> › news › arima-man-rescued-after-...

### Arima man rescued after being swept away by flood waters

5 Oct 2022 — Fifty five year old **Drick Narine Pollard** was trying to help his mother secure her belongings when flood waters started to rise along the Arima ...

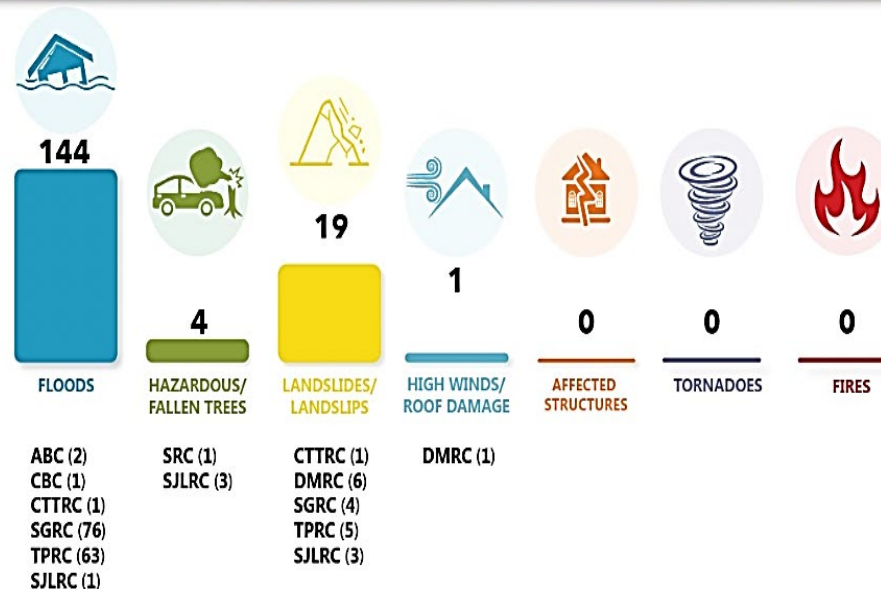
<https://floodlist.com> › trinidad-floods-october-2022

### Trinidad and Tobago – One Missing After Flash Floods

6 Oct 2022 — Flash flooding struck in the dual-island Caribbean nation of **Trinidad and Tobago** following heavy rain brought by a tropical disturbance.

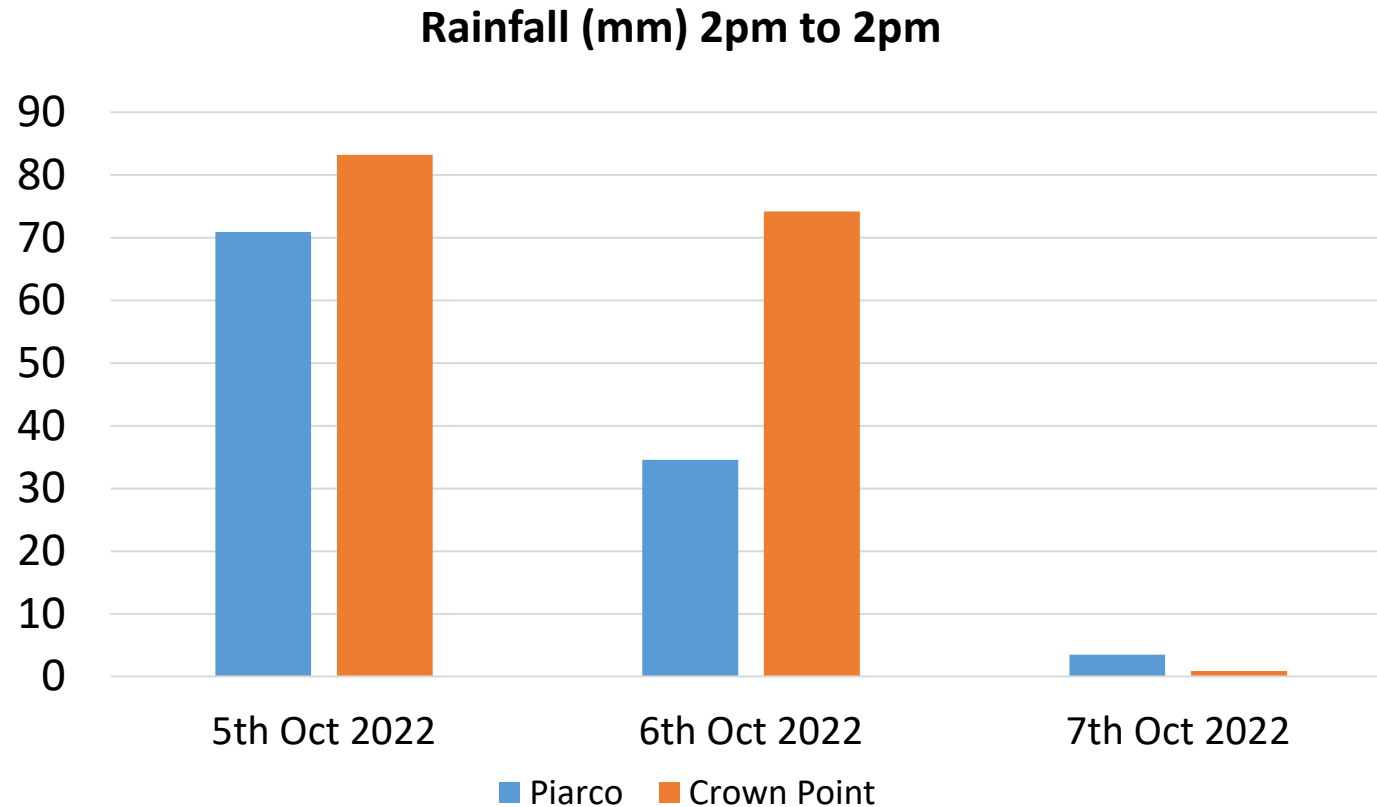
## INCIDENT SUMMARY REPORT

07 OCTOBER, 2022 - 5PM



## WIDESPREAD FLOODING 6<sup>th</sup> OCTOBER 2022

Heavy rainfall associated with Invest 91L recorded at Piarco and Crown Point:



3 Day Totals:

Piarco:  
109 mm (4.29 inches)

Crown Point:  
158.3 mm ( 6.23 inches)



## **Covered Area Rainfall Event (CARE)**

**(5/10/2022 to 7/10/2022)**

**Trinidad and Tobago – Trinidad**

**(5/10/2022 to 8/10/2022)**

**Trinidad and Tobago – Tobago**

### **Excess Rainfall**

#### **Event Briefing**

13 October 2022

For Trinidad, the Rainfall Index Loss calculated for the CARE that started on 5 October and ended on 7 October 2022, produced government losses which were above the attachment point of Trinidad and Tobago's Excess Rainfall policy for Trinidad. Final calculations show that a payout of US\$5,115,781.97 is due.

For Tobago, the Rainfall Index Loss calculated for the CARE that started on 5 October and ended on 8 October 2022, produced government losses which were also above the attachment point of Trinidad and Tobago's Excess Rainfall policy for Tobago. Final calculations show that a payout of US\$726,932.36 is due.

# DAYTIME HEATING TRIGGERS

## FLASH FLOODS – OCTOBER 25<sup>th</sup> 2022



## WEST COAST CONVERGENCE IMPACTFUL WEATHER FROM DIURNAL CONVECTION

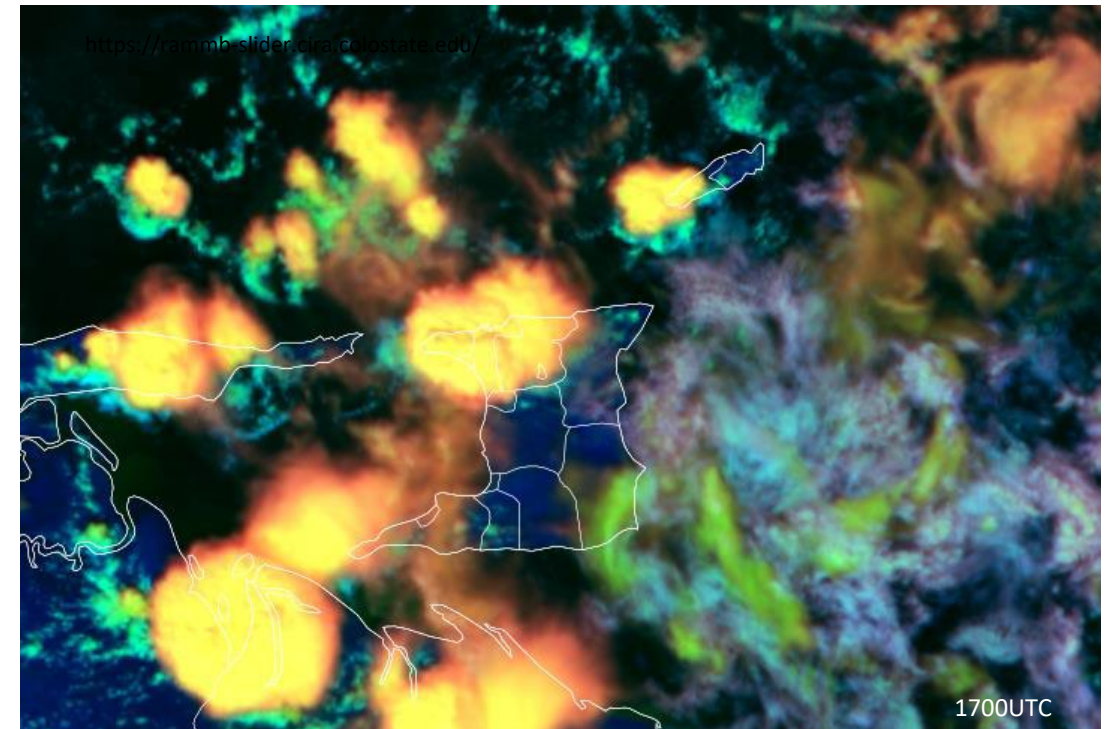
DATE : 25<sup>th</sup> October 2022

EVENT: Thunderstorm West Trinidad & Tobago

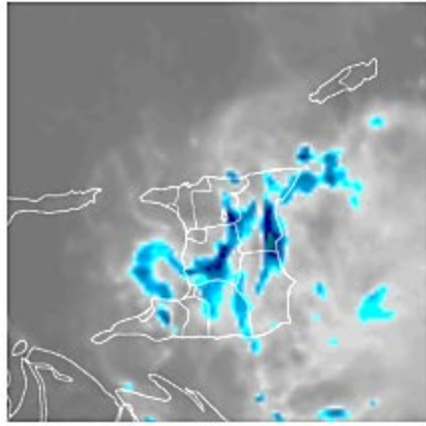
### METEOROLOGICAL DEVELOPMENT:

*The atmosphere was very moist, but initially stable due to dissipating convection to the east. Strong daytime heating resulted in local effects over both islands.*

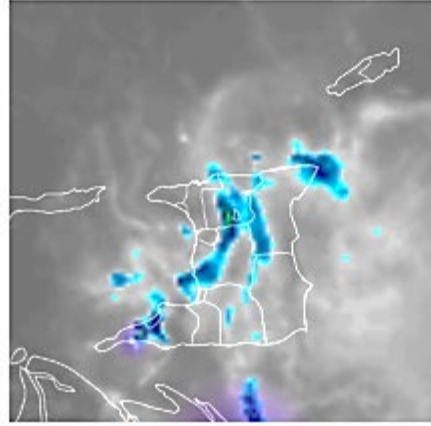
*Trinidad: 34.5°C Tobago:31.5°C*



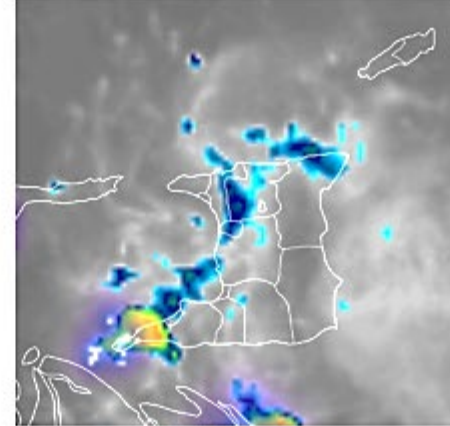
## CONVECTIVE DEVELOPMENT TIME SERIES WITH GLM OVERLAYS



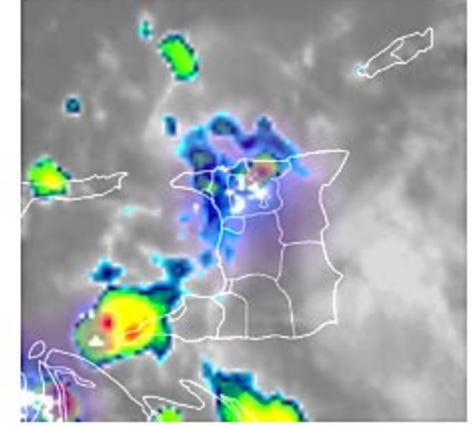
2022-10-25  
14:50:20 UTC



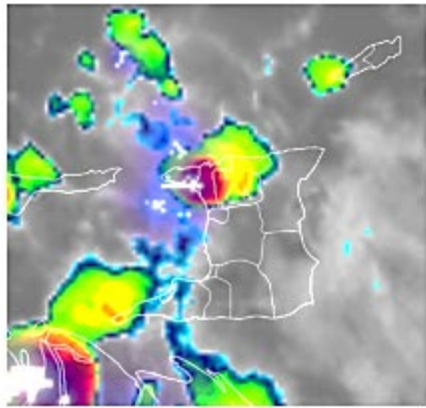
2022-10-25  
15:20:20 UTC



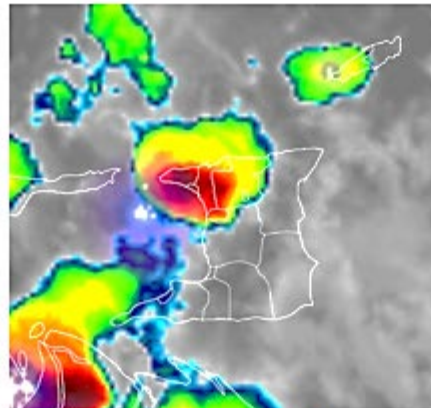
2022-10-25  
15:50:20 UTC



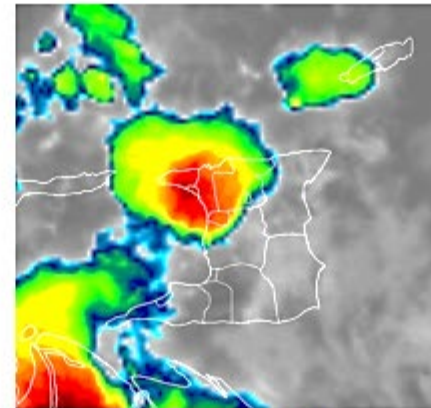
2022-10-25  
16:20:20 UTC



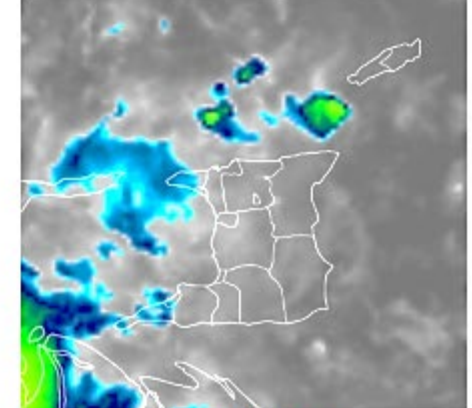
2022-10-25  
16:50:20 UTC



2022-10-25  
17:20:20 UTC



2022-10-25  
17:50:20 UTC



2022-10-25  
20:20:20 UTC



# TTMS EARLY WARNING SYSTEM

**TRINIDAD AND TOBAGO  
METEOROLOGICAL SERVICE  
SYNOPTIC BRANCH**

Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727  
Email: [synop@metoffice.gov.tt](mailto:synop@metoffice.gov.tt) Website: [www.metoffice.gov.tt](http://www.metoffice.gov.tt)

F 852-24

## PUBLIC WARNING MESSAGE

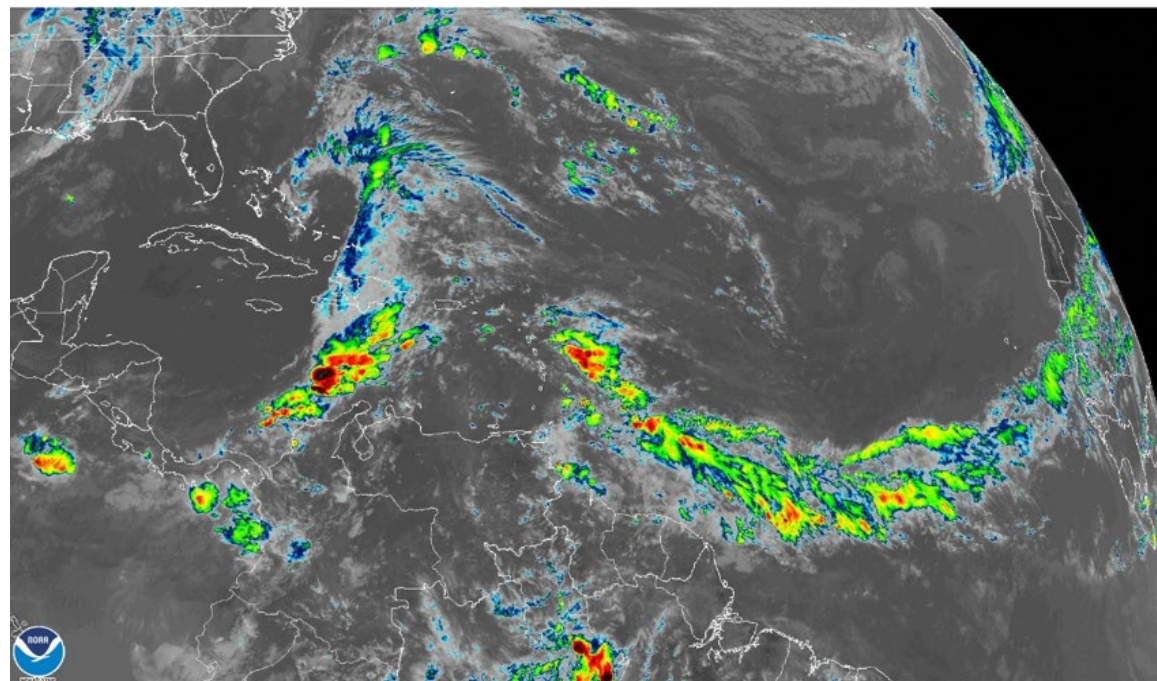
Date:	2022/10/25	Issuance Time:	06:21 AM
Event:	Adverse Weather	Message Type:	Alert
Headline:	<b>ADVERSE WEATHER ALERT #1 - YELLOW LEVEL</b>		
Area Description:	Trinidad and Tobago and surrounding marine areas.		
Start Date/Time:	2022/10/25 09:00 AM	End Date/Time:	2022/10/25 05:00 PM
Urgency:	Immediate	Response:	Monitor
Severity:	Moderate	Certainty:	Likely
Description:	Periods of rain and/or showers of varying intensities are expected today (25th October 2022), also with a 70% (high) chance of heavy showers and thunderstorms that can produce intense rainfall in excess of 25mm. Gusty winds in excess of 55 km/h may be experienced especially in the vicinity of heavy showers/thunderstorms. Street/flash flooding and localized ponding are also likely in heavy downpours. Seas can become agitated at times in sheltered areas. Landslides/landslips are also possible in areas so prone.		
Instructions:	Do not wade or drive through flood waters. Monitor weather conditions and official updates. More information: <a href="http://www.metoffice.gov.tt">www.metoffice.gov.tt</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		
< END >			

<b>GREEN</b>	<b>YELLOW</b>	<b>ORANGE</b>	<b>RED</b>
<i>Take no action</i>	<i>Monitor conditions</i>	<i>Secure yourself/property</i>	<i>Take shelter/evacuate</i>

Tuesday 25th October 2022

Weather Update

The axis of a tropical wave and associated weather is passing Trinidad and Tobago this morning. This triggered the issuance of an Adverse Weather Alert #1 - Yellow Level, which is ongoing. See [http://www.metoffice.gov.tt/early\\_warning](http://www.metoffice.gov.tt/early_warning) for details.... See more





# TTMS EARLY WARNING SYSTEM – ORANGE LEVEL ATTAINED



**TRINIDAD AND TOBAGO  
METEOROLOGICAL SERVICE  
SYNOPTIC BRANCH**  
Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727  
Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F 852-24

## PUBLIC WARNING MESSAGE

<b>Date:</b>	2022/10/27	<b>Issuance Time:</b>	03:51 PM
<b>Event:</b>	Adverse Weather	<b>Message Type:</b>	Update
<b>Headline:</b>	<b>ADVERSE WEATHER ALERT #4 - ORANGE LEVEL</b>		
<b>Area Description:</b>	Trinidad and Tobago and surrounding marine areas.		
<b>Start Date/ Time:</b>	2022/10/25 09:00 AM	<b>End Date/ Time:</b>	2022/10/29 03:00 PM
<b>Urgency:</b>	Immediate	<b>Response:</b>	Monitor
<b>Severity:</b>	Severe	<b>Certainty:</b>	Likely
<b>Description:</b>	The ITCZ continues to affect Trinidad and Tobago and a Tropical Wave is also expected on Friday (28th). Prolonged periods of rain and intense showers are expected overnight into tomorrow morning (Friday 28th), with a high (80%) chance of thunderstorm activity. Rainfall in excess of 75mm can result. Gusty winds in excess of 55 km/h may be experienced especially in the vicinity of heavy showers/thunderstorms. Street/flash flooding and localized flooding are also likely. Seas can become agitated at times in sheltered areas and landslides/landslips are also possible in areas so prone.		
<b>Instructions:</b>	Do not wade or drive through flood waters. Secure loose outdoor items and livestock. Persons are advised to monitor weather conditions and river levels. More information: <a href="http://www.metoffice.gov.tt">www.metoffice.gov.tt</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		
<b>&lt; END &gt;</b>			

<b>GREEN</b>	<b>YELLOW</b>	<b>ORANGE</b>	<b>RED</b>
Take no action	Monitor conditions	Secure yourself/property	Take shelter/evacuate



**TRINIDAD AND TOBAGO  
METEOROLOGICAL SERVICE  
SYNOPTIC BRANCH**  
Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727  
Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F 852-24

## PUBLIC WARNING MESSAGE

<b>Date:</b>	2022/10/27	<b>Issuance Time:</b>	07:57 PM
<b>Event:</b>	Flood	<b>Message Type:</b>	Alert
<b>Headline:</b>	<b>RIVERINE FLOOD ALERT #1 - ORANGE LEVEL</b>		
<b>Area Description:</b>	Trinidad: Caroni, South Oropouche and other major water courses.		
<b>Start Date/Time:</b>	2022/10/27 08:00 PM	<b>End Date/Time:</b>	2022/10/29 08:00 PM
<b>Urgency:</b>	Immediate	<b>Response:</b>	Avoid
<b>Severity:</b>	Severe	<b>Certainty:</b>	Observed
<b>Description:</b>	River levels are currently near threshold values in some parts, especially along the Caroni River and South Oropouche basin with flooding ongoing in some areas along these river. Expected rainfall overnight can increase the volume of already overwhelmed water courses and overspilling of banks is expected.		
<b>Instructions:</b>	Monitor weather conditions and river levels before venturing out. Avoid areas with flood waters. Monitor updates from official sources and plan safety measures, including emergency supplies of food and water. Follow the instructions of government officials. More information: <a href="http://www.metoffice.gov.tt">www.metoffice.gov.tt</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		
<b>&lt; END &gt;</b>			

<b>GREEN</b>	<b>YELLOW</b>	<b>ORANGE</b>	<b>RED</b>
Take no action	Monitor conditions	Secure yourself/property	Take shelter/evacuate

## IMPACTS

### [Incredible Flash Flood and Heavy Rains Hit Maraval! Trinidad ...](#)

25 Oct 2022 — Trinidad Tobago metrology warnings and severe **floods**. Today is **October 25, 2022**. Heavy rains began to fall across the country.

### [Violent floods reported in Maraval | Loop Trinidad & Tobago](#)

Violent **floods** reported in **Maraval**. Parts of **Maraval** were under water on Tuesday as a result of raging **floods**. ... **October 25, 2022 06:04 PM ET**.

### [Trinidad and Tobago turned into an ocean. Severe flash ...](#)

25 Oct 2022 — Severe flash **floods** wipe out **Maraval**. Massive flash **floods** hit the Trinidad and Tobago region. ... Today is **October 25, 2022**.

### [Port of Spain suburbs flooded as bad-weather alert extended](#)

25 Oct 2022 — Tuesday **25 October 2022** File photo - ... Affected areas included: Saddle Road and La Seiva, **Maraval**; Western Main Road, Cocorite; ...



<https://tt.loopnews.com/content/queens-park-savannah-flooded-amid-inclement-weather-630498>

*Flooding at Queen's Park Savannah*

### **Queen's Park Savannah flooded amid inclement weather**

Dareece Polo | October 25, 2022 02:04 PM ET





## REPORTED FLOOD LOCATIONS

- DIEGO MARTIN REGIONAL CORPORATION**
  - Lower Saddle Rd, Boissierre, Maraval
  - Saddle Rd, La Seiva, Maraval
  - Western Main Rd, Cocorite
- PORT OF SPAIN CITY CORPORATION**
  - Hollows, Queen's Park Savannah
  - Maraval Rd, Newtown

25 OCT 2022  
1:30PM

HIGH TIDE  
04:06 PM  
LOW TIDE  
10:47 PM

Affected persons are encouraged to call their respective Corporation's Disaster Management Unit Hotline

  
@RDLGTT

## IMPACTS

loop T&T News 1 min read

### Violent floods reported in Maraval

Dareece Polo | October 25, 2022 03:33 PM ET




<https://tt.loopnews.com/content/violent-floods-reported-maraval-630513>

# RIVER LEVELS ON 28<sup>TH</sup> AND DISCONTINUATION ON 29<sup>TH</sup>








RIVER LEVEL ADVISORY

28TH OCT 2022  
AS OF 8AM



**LOW TIDE** 12:05 PM  
**HIGH TIDE** 06:10 PM

**ARIPO RIVER - 47% CAPACITY**

---

**AROUCA - 48% CAPACITY**

---

**CAPARO - 73% CAPACITY**

---

**CARONI (BAMBOO SETTLEMENT #3)- 76% CAPACITY**

---

**EL CARMEN (CARONI RIVER) - 100% CAPACITY**

⚠️

---

**NORTH OROPOUCHE (TOCO ROAD) - 84% CAPACITY**

---

**LEVEL%**

0-40


40-50

50-75

75-90

90-100

THE PUBLIC IS ENCOURAGED TO CALL RESPECTIVE CORPORATIONS' DISASTER MANAGEMENT UNITS HOTLINE  
Report based on latest information generated by Corporations' Disaster Management Units. All reported incidents will be sent to relevant authorities for assessment and dispatching relief.



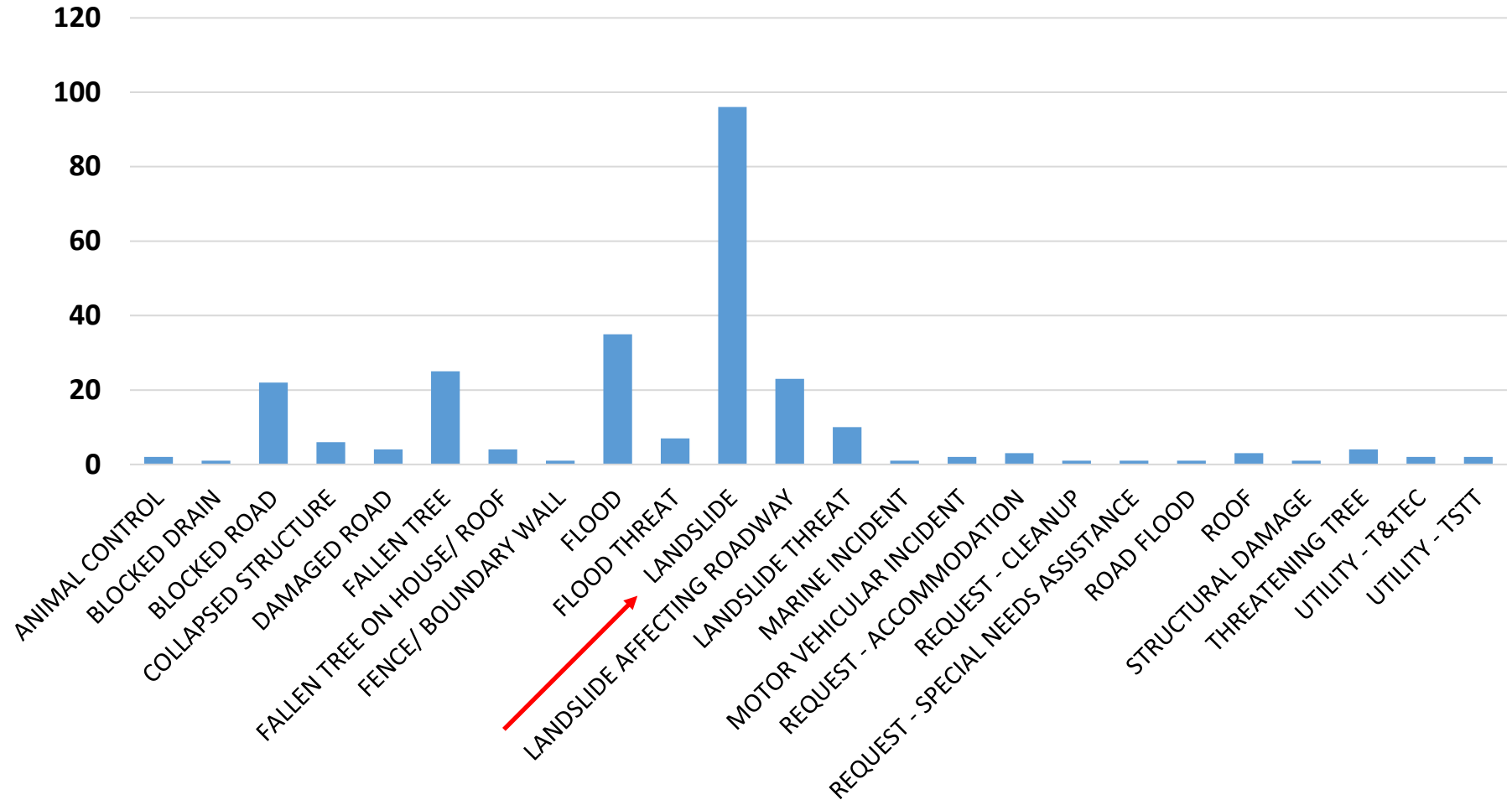
@RDLGTT

## PUBLIC WARNING MESSAGE

<b>Date:</b>	<b>2022-10-29</b>	<b>Issuance Time:</b>	09:52 AM
<b>Event:</b>	Adverse Weather	<b>Message Type:</b>	Cancel
<b>Headline:</b>	<b>ADVERSE WEATHER ALERT DISCONTINUATION - GREEN LEVEL</b>		
<b>Area Description:</b>	Trinidad and Tobago and surrounding marine areas.		
<b>Start Date/Time:</b>	2022/10/29 10:00 AM	<b>End Date/Time:</b>	2022/10/29 03:00 PM
<b>Urgency:</b>	Immediate	<b>Response:</b>	Monitor
<b>Severity:</b>	Minor	<b>Certainty:</b>	Observed
<b>Description:</b>	Generally over Trinidad and Tobago, more stable conditions have returned and impactful weather from the ITCZ has significantly decreased. Expected, also, is a gradual decrease of waterlogged areas. The isolated thunderstorm can still occur in a few areas, as is common during the rainy season. Gusty winds and street flooding can be expected but short lived near these thunderstorm.		
<b>Instructions:</b>	Do not wade or drive through flood waters. Persons are advised to monitor weather conditions and river levels. More information: <a href="http://www.metoffice.gov.tt">www.metoffice.gov.tt</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		
<b>&lt; END &gt;</b>			

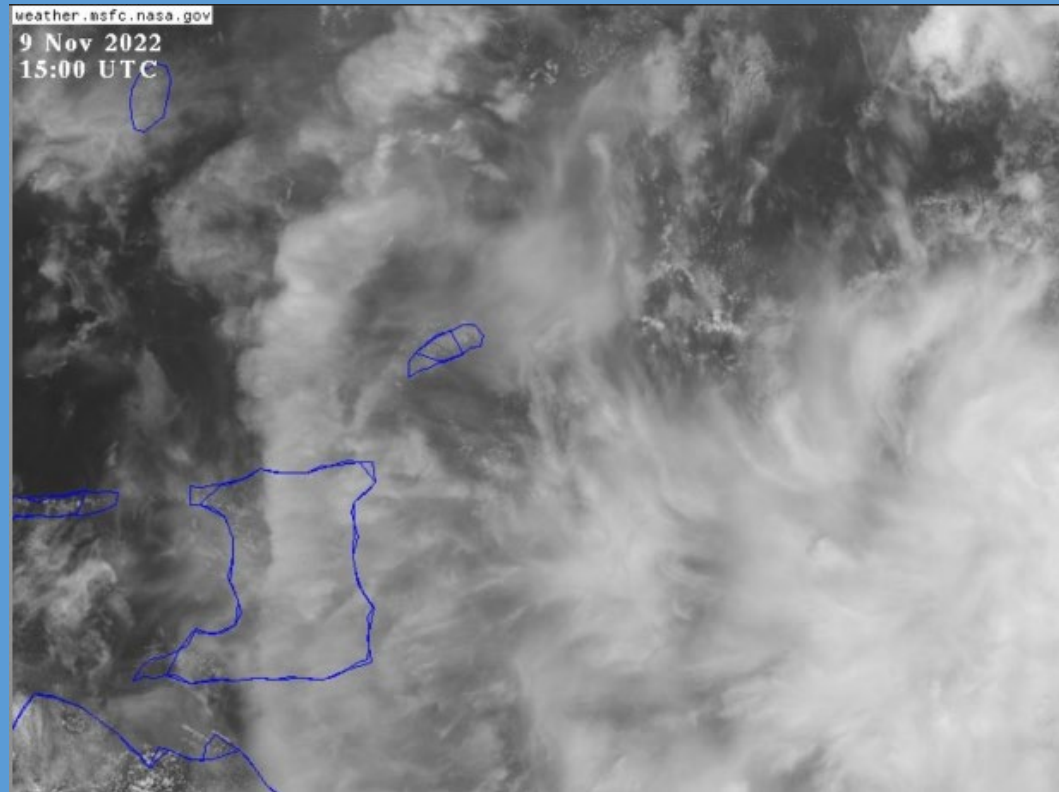
<b>GREEN</b>	<b>YELLOW</b>	<b>ORANGE</b>	<b>RED</b>
Take no action	Monitor conditions	Secure yourself/property	Take shelter/evacuate

## TEMA (TOBAGO) OCTOBER REPORTS for ADVERSE WEATHER IMPACTS






# TROPICAL WAVE & ITCZ COMBINATION FLOODS ACROSS TRINIDAD & TOBAGO NOVEMBER 8<sup>th</sup> & 9<sup>th</sup> 2022



# TROPICAL WAVE MODULATES ITCZ NOVEMBER 8<sup>TH</sup> 2022

 **Trinidad and Tobago Meteorological Service**  
2d · 🌐

09.11.2022  
Weather Update

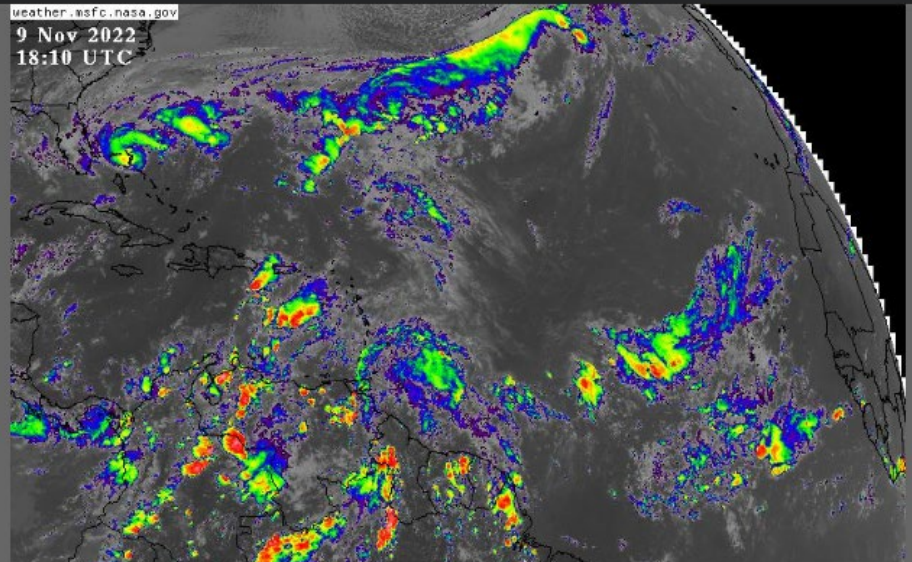
The axis of the tropical wave is on Trinidad and Tobago right now as we predicted. The forecast is for continuing periods of showers and some thunderstorm activity. The major concern is the street/flash flooding and riverine flooding.

The risk for landslips/landslides is elevated.

Please keep monitoring the forecasts and alerts from the Trinidad and Tobago Met. Service.

Forecasts are updated at 6 am, 10 am and 4 pm daily

weather.nasa.gov  
9 Nov 2022  
18:10 UTC



## PUBLIC WARNING MESSAGE

Date:	2022/11/09	Issuance Time:	06:42 AM
Event:	Flood	Message Type:	Alert
Headline:	<b>RIVERINE FLOOD ALERT #1 - YELLOW LEVEL</b>		
Area Description:	Major watercourses across Trinidad		
Start Date/Time:	2022/11/09 06:45 AM	End Date/Time:	2022/11/11 04:00 PM
Urgency:	Immediate	Response:	Monitor
Severity:	Moderate	Certainty:	Likely
Description:	After significant rainfall overnight, major river levels across Trinidad are currently near 80-85% and rising. Smaller watercourses are currently overwhelmed in a few areas. Weather conditions are currently settling, however, occasional periods of heavy rainfall can be expected over the next 36 hours, particularly Wednesday afternoon (9th November 2022) and Thursday morning (10th November 2022). This additional rainfall can continue to elevate the river levels, so there remains a moderate risk to public safety, livelihood and property. Run off will be slow at high tide times which are approximately 4:15pm for today (Wednesday 9th November 2022) and 5:15 am & 4:45pm tomorrow (Thursday 10th November 2022).		
Instructions:	Carefully monitor weather conditions and river/water levels. Monitor updates from official sources and plan safety measures, including emergency supplies of food and water. Do not take unnecessary risks. Follow the instructions of government officials. More information: <a href="http://www.metoffice.gov.tt/">www.metoffice.gov.tt/</a> ; <a href="http://www.odpm.gov.tt">www.odpm.gov.tt</a>		
< END >			

GREEN	YELLOW	ORANGE	RED
Take no action	Monitor conditions	Secure yourself/property	Take shelter/evacuate

## TROPICAL WAVE MODULATES ITCZ NOVEMBER 8<sup>TH</sup> 2022

Riverine Flood Alert #2 - Orange Level!

Updated Issuance time #1 (local time)Wed, Nov 9, 2022 2:51 PM

Start date (local time)Wed, Nov 9, 2022 6:45 AM

End date (local time)Fri, Nov 11, 2022 4:00 PM



The graphic shows a flooded river with a warning sign (exclamation mark in a triangle) overlaid. The Met Trinidad & Tobago Meteorological Service logo is in the top right corner. The text at the bottom reads: **RIVERINE FLOOD ALERT IN EFFECT!** and **ORANGE LEVEL**.



The graphic is a warning poster with an orange background. It features the Met Trinidad & Tobago Meteorological Service logo in the top left. The text reads: **HYDRO-MET COLOUR-CODED WARNING SYSTEM**, **RISK LEVEL: ORANGE**, and **HIGH RISK to public safety, livelihoods, and property.** Below this, it lists **Description:** Hazardous conditions likely to threaten lives, livelihoods, and property. and **Action Required: PREPARE** Make preparations to protect yourself, your family, your livelihood and your property. It also states **Serious injuries or casualties are possible.** The website [www.metoffice.gov.tt/early\\_warning](http://www.metoffice.gov.tt/early_warning) is at the bottom.





The ODPM  
&  
Trinidad and Tobago  
Air Guard  
aerial reconnaissance  
on the impact of  
Riverine Flooding

10 November, 2022



West of Piarco International Airport



Madras Road





Greenvale Park



Tulsa Trace, Penal



# TTMS DRONE FOOTAGE: AJIM BAKSH TRACE SANGRE GRANDE (Thurs 10<sup>th</sup> Nov 2022)





loop T&T News 2 min read

## Penal residents advised: Brace for more floods

The South Oropouche River bank has been compromised

Beena Mahase | November 9, 2022 01:01 PM ET



The Cumuto Tamana Road is now impassable after flood waters washed away part of the roadway 8/11/2022 Express photojournalist Curtis Chase.

Flooded- Suchit Trace Penal. Photo courtesy Debe South Councillor Khemraj Seecharan.

## PLUCK ROAD, WOODLAND, SOUTH TRINIDAD, 8<sup>th</sup> NOV 2022



<https://guardian.co.tt/news/homeowners-angry-after-more-flood-losses-174568128-05frc7b088>



## CONCLUSION

**BOTH TRINIDAD AND TOBAGO CONTINUE TO BE**

**AFFECTED BY:**

- **TROPICAL WAVES**
- **ITCZ**
- **LOCALIZED DIURNAL CONVECTION**
- **TROPICAL CYCLONIC FEATURES**

**THE IMPACTS DURING 2022 INCLUDE:**

**WIDESPREAD FLOODING, LANDSLIDES,**

**INFRASTRUCTURAL LOSS, ECONOMIC LOSS,**

**AGRICULTURAL LOSS AND UNFORTUNATELY**

**LOSS OF PERSONAL PROPERTY AND LIFE.**

# Thank You

METEOROLOGICAL SERVICES DIVISION

Plarco International Airport

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