# Weather Briefing

#### Caribbean Institute for Meteorology and Hydrology Husbands, St. James, Barbados

Compiled by: John Peters

For Caribbean Disaster Emergency Management Agency

Tuesday 24th October 2017 15:00 UTC

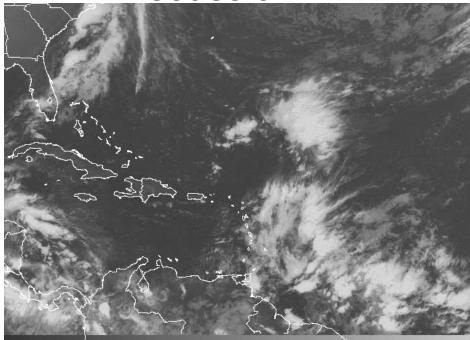
Tropical Weather Discussion NWS National Hurricane Center Miami FL 608 AM EDT Tue Oct 24 2017

...TROPICAL WAVES...

A tropical wave is East of the Lesser Antilles with axis extending from 17N58W to 07N59W, moving W at 15 kt.

The wave is in a region of strong vertical wind shear. However, shallow moisture and an upper trough in the W Atlc with base reaching Suriname support scattered showers and thunderstorms from 06N-20N between 50W-61W.

#### NHC Tropical Weather Discussion



GOES-EAST VISIBLE - OCT 24 17 06:15 UTC

Tropical Weather Outlook NWS National Hurricane Center Miami FL 800 AM EDT Tue Oct 24 2017

For the North Atlantic...Caribbean Sea and the Gulf of Mexico:

1. Widespread cloudiness and showers associated with a broad area of

low pressure are located over the western Caribbean Sea, near the Central American coast. Close proximity to land is likely to limit development of this system for the next day or two, however, environmental conditions are expected to be conducive for some development to occur thereafter while the system moves slowly northward over the northwestern Caribbean Sea.

\* Formation chance through 48 hours...low...10 percent.

\* Formation chance through 5 days...medium...50 percent.

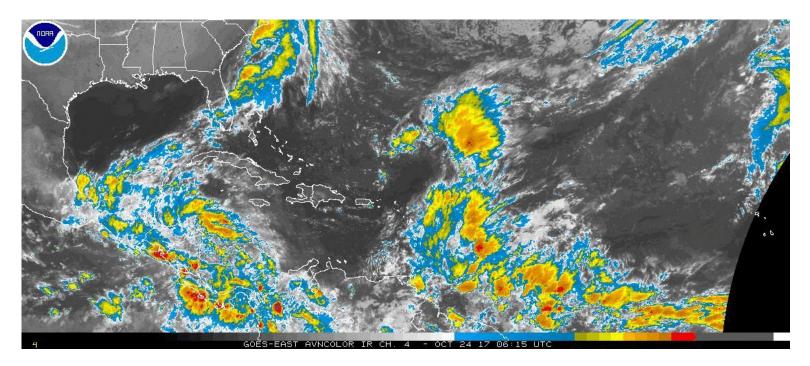
#### Two-Day Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida





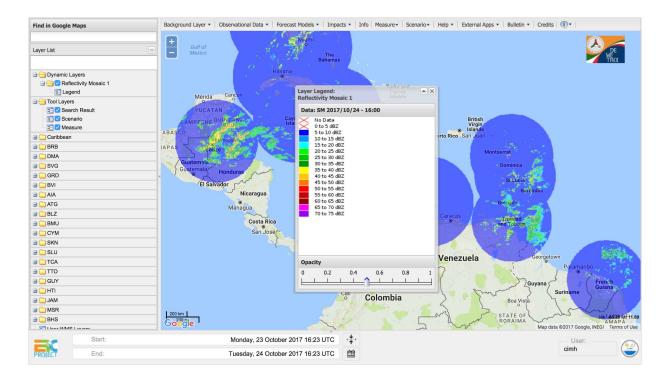
Current Disturbances and Two-Day Cyclone Formation Chance: 🗱 < 40% 🗱 40-60% 🗰 > 60% Tropical or Sub-Tropical Cyclone: O Depression 🥑 Storm 🕑 Hurricane O Post-Tropical Cyclone X Remnants

### Observations...Satellite



GOES IR Loop at 2017/10/24 from 0615 to 1315 UTC.

## **Observation**...Rainfall



Caribbean Weather Radar Mosaic at 2017/10/24 0000 UTC showing band of rainfall activity with pockets of intense rainfall currently affecting the Eastern Caribbean and Belize.

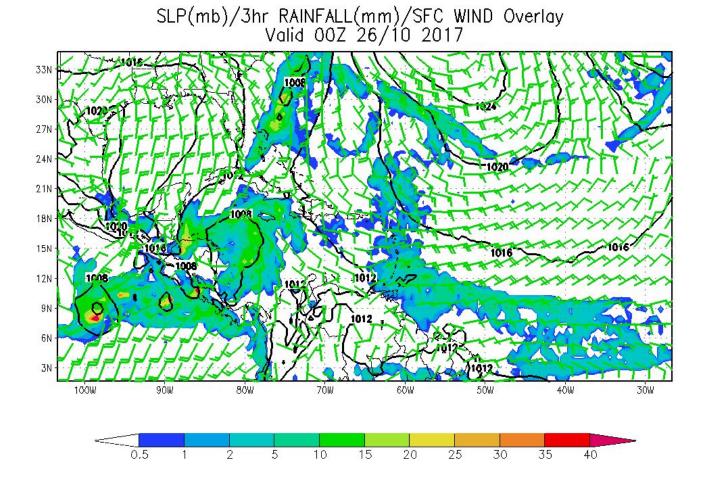
## Observation...Rainfall cont'd

Find in Google Maps	Bac	kground Layer +	Observational Data +	Forecast Models   Imp		THO ME	sule +   Sue	nano•   neip•   D	ternar Apps •	Bulletin  Credit	5 .
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	BLZ- PGIA	Rainfall	mm	24/10/2017 16:00 [T 5	=	0.60	0.00 (TR	54.40 (T 86.60	T 86.80 (T	87.20 (T	
Tool Layers     Veather Stations (11     Search Result     Scenario     Measure	BLZ- Belmopan	Rainfall	mm	24/10/2017 16:00 [T 5	+	1.60	0.00 (TR	8.00 (TR 8.10 (T	R 8.40 (TR	. 51.00 (T	
	BLZ- Bluecreek	Rainfall	mm	24/10/2017 16:00 [T 5	=	0.00	0.00 (TR	11.80 (T 14.80	T 15.60 (T	42.80 (T	
	BLZ- Middlesex	Rainfall	mm	24/10/2017 16:00 [T 5	=	0.10	0.00 (TR	6.10 (TR 7.20 (T	R 9.10 (TR	. 38.80 (T	
	BLZ- Port Of Belize	Rainfall	mm	24/10/2017 16:00 [T 5	-	0.00	0.00 (TR	27.10 (T 36.70	T 36.70 (T	38.10 (T	
Caribbean	BLZ- PGair	Rainfall	mm	24/10/2017 16:00 [T 5	+	0.20	0.00 (TR	1.90 (TR 13.20	T 14.30 (T	31.90 (T	
BRB	BLZ- SanPedro	Rainfall	mm	24/10/2017 16:00 [T 5	=	0.30	0.00 (TR	23.90 (T 26.00 )	T 26.60 (T	27.50 (T	
DMA	SVG- Jennings	Rainfall	mm	24/10/2017 16:20 [T 5	=	0.00	0.00 (TR	0.10 (TR 0.10 (T	R 0.10 (TR	. 27.10 (T	
🗀 SVG	SVG- South Rivers U	N Rainfall	mm	24/10/2017 16:20 [T 1	=	0.00	0.00 (TR	0.00 (TR 0.00 (T	R 0.00 (TR	. 25.40 (T	
🔁 GRD	BRB- CIMH AWS	Rainfall	mm	24/10/2017 16:20 [T 1		0.20	3.50 (TR	5.30 (TR 5.30 (T	R 5.30 (TR	. 19.60 (T	idos
BVI	SLU- Alba Bridge	Rainfall	mm	24/10/2017 16:20 [T 5	=	0.00	0.00 (TR	0.20 (TR 2.00 (T	R 2.40 (TR	. 16.40 (T	
AIA 🛄	ATG- Christian	Rainfall	mm	24/10/2017 16:20 [T 5	=	0.00	0.20 (TR	6.30 (TR 6.30 (T	R 16.20 (T	16.20 (T	
🗀 ATG	BLZ- (CN23) Belmop	an Rainfall	mm	24/10/2017 14:30 [T 3	-	0.00	0.00 (TR	0.04 (TR 0.04 (T	R 0.08 (TR	. 15.39 (T	
🛙 🧰 BLZ	BRB- Canefield	Rainfall	mm	24/10/2017 16:20 [T 5	=	0.00	0.00 (TR	0.00 (TR 1.30 (T	R 2.00 (TR	. 15.20 (T	
BMU	GRN- Clozier	Rainfall	mm	24/10/2017 16:20 [T 5	=	0.20	0.40 (TR	1.80 (TR 1.80 (T	R 1.80 (TR	. 14.20 (T	
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SKN	DMA- Pondcasse	Rainfall	mm	24/10/2017 16:15 [T 5	=	0.00	0.00 (TR	0.80 (TR 0.80 (T	R 0.90 (TR	. 13.10 (T	Georgetown
I 🗀 SLU	BRB- Apes Hill	Rainfall	mm	24/10/2017 16:20 [T 5	-	0.00	0.00 (TR	0.00 (TR 0.50 (T	R 0.50 (TR	. 13.00 (T	Paramaribo
TCA	ATG- Cardi	Rainfall	mm	24/10/2017 16:20 [T 5	=	0.00	0.00 (TR	0.00 (TR 0.00 (T	R 12.79 (T	12.99 (T	Fr
отто	SVG- Convent	Rainfall	mm	24/10/2017 16:20 [T 1	-	0.30	2.30 (TR	5.40 (TR 5.40 (T	R 5.50 (TR	. 12.70 (T	Suriname
GUY	GRN- Mount_Plasir	Rainfall	mm	24/10/2017 16:15 [T 5	=	0.00	0.00 (TR	1.00 (TR 1.00 (T	R 1.00 (TR	. 11.80 (T	
	BLZ- Libertad	Rainfall	mm	24/10/2017 16:00 [T 5	-	0.10	0.00 (TR	0.90 (TR 0.90 (T	R 0.90 (TR	. 10.30 (T	1 John
JAM	SVG- Dalaway UNDF	Rainfall	mm	24/10/2017 16:20 [T 1		0.00		5.40 (TR 5.40 (T			lon: -51.92 lat:
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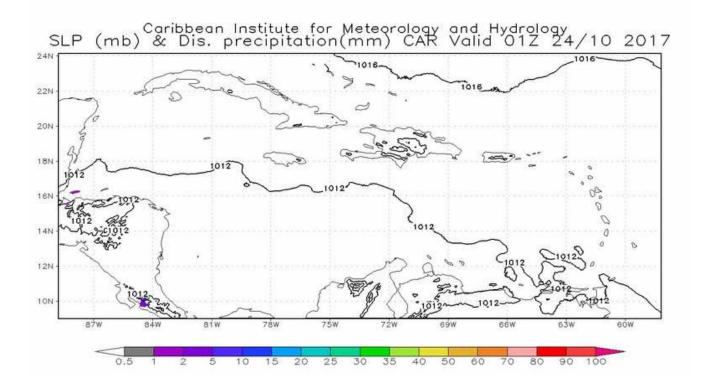
Rainfall observations from CIMH observational network show 12 - 25 mm of rainfall across the eastern Caribbean during the last 24 hours.

#### **Model** Outlook...

CIMH 18 km WRF 3hr Rainfall (mm) Valid 2017/10/26 0000 UTC suggest that rainfall is expected to persist for the next 24 hours. Area of disturbed weather in the weatern Caribbean being monitored



## Model Outlook...cont'd



CIMH km WRF 1hr Rainfall (mm) Valid 2017/10/24 0000 UTC + 48 hours showing area rainfall persisiting over parts of the Eastern Caribbean and area of disturbed weather in the western Caribbean

## SUMMARY

**WEATHER** - The EC is currently being affected by a tropical wave enhanced upper level trough. The result is an area of clouds and rain with embedded heavy showers and thundershowers. The wave with progress to the west in the next 24 hour. The Upper level may persist for the next day or two.

The weak disturbance to the Southwest Caribbean is in a favorable environment for development but is will be slow. The expected path is to the north which will pose a heavy rain threat to Belize and the Yucatan. A better chance of development is possible later in the week.

**FLOOD:** Persistent rainfall combined with saturated conditions could lead to flooding especially in low lying areas across the Eastern Caribbean.

The western Caribbean in the vicinity of Belize has been receiving persistent rainfall during the previous 24 - 48 hours. Rainfall likely to persist possibly resulting in flooding in northern and central areas

#### Disclaimer

CIMH is providing special weather interpretation of the current and forecasted tropical weather affecting the Caribbean region.

CIMH is not an official forecasting agency

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