

Weather Briefing

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

Compiled by:
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For
Caribbean Disaster Emergency Management
Agency

Tuesday 24th October 2017 15:00 UTC

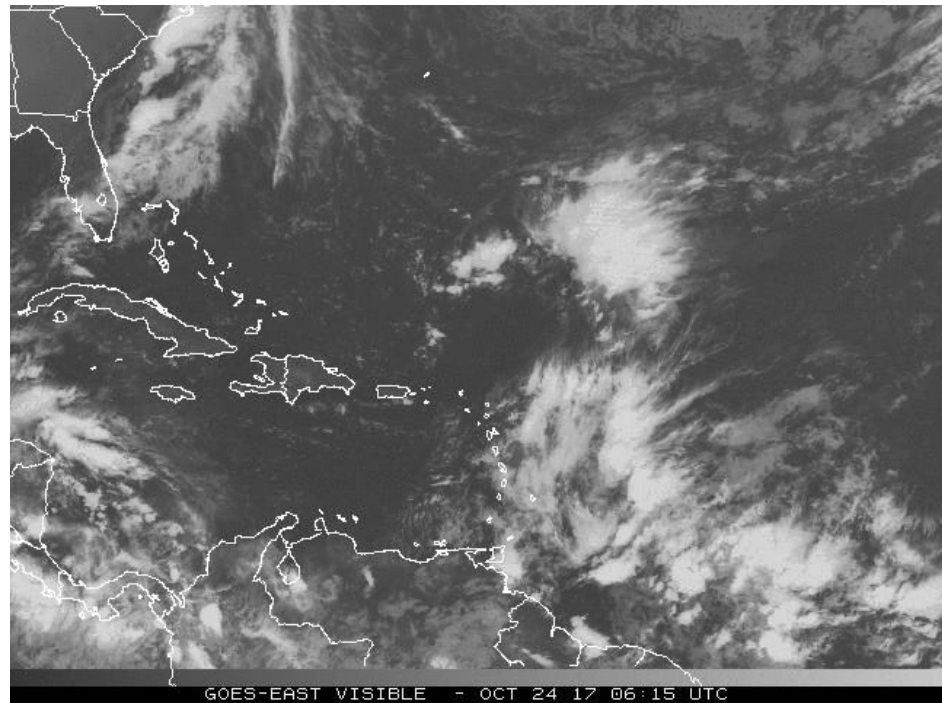
NHC Tropical Weather Discussion

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.**



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.

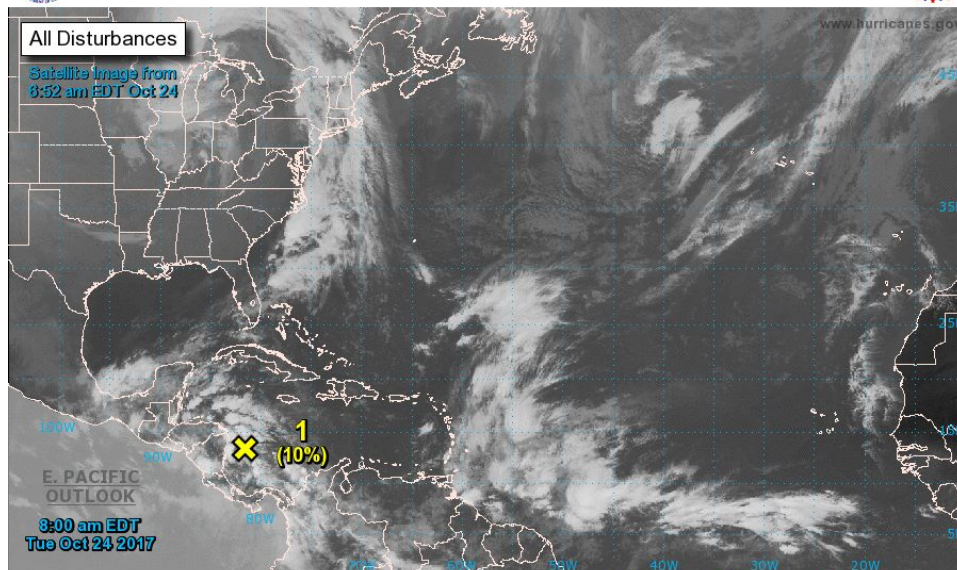
* Formation chance through 48 hours...low...10 percent.

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

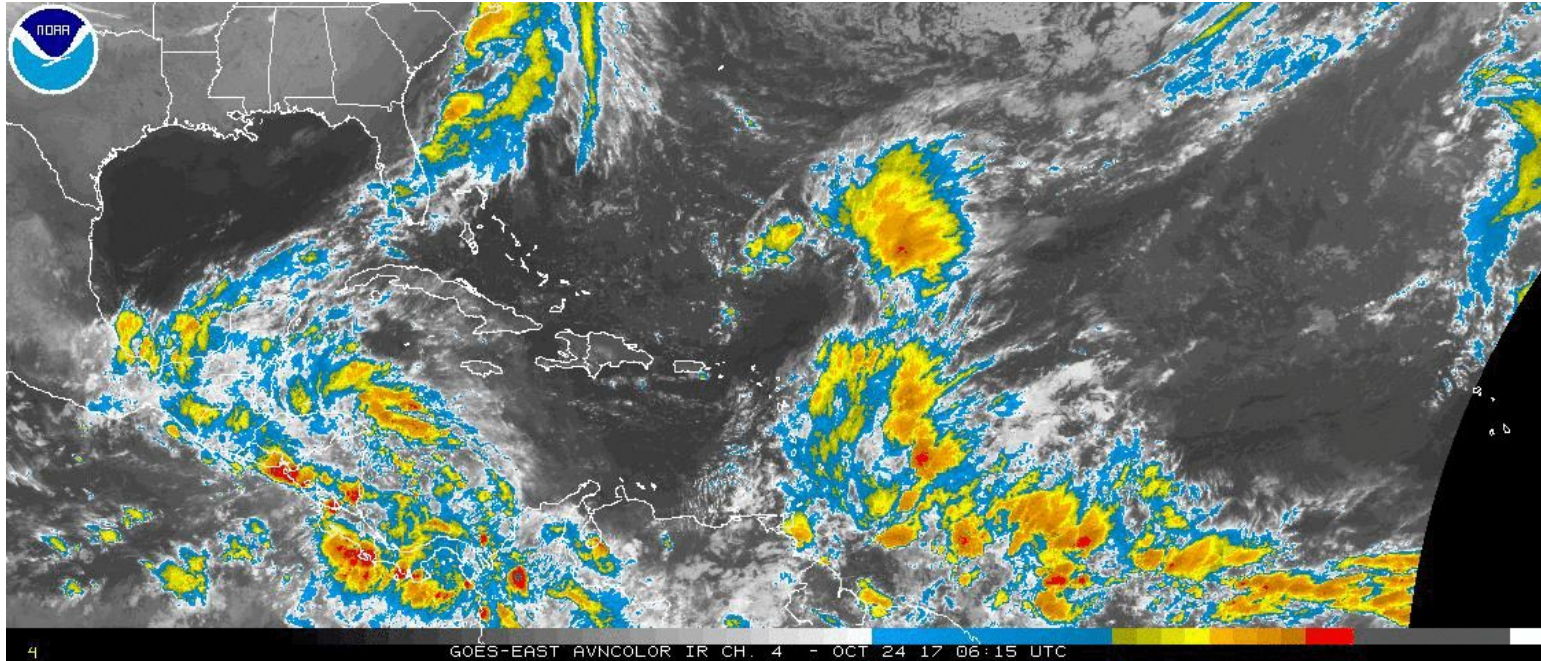


Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

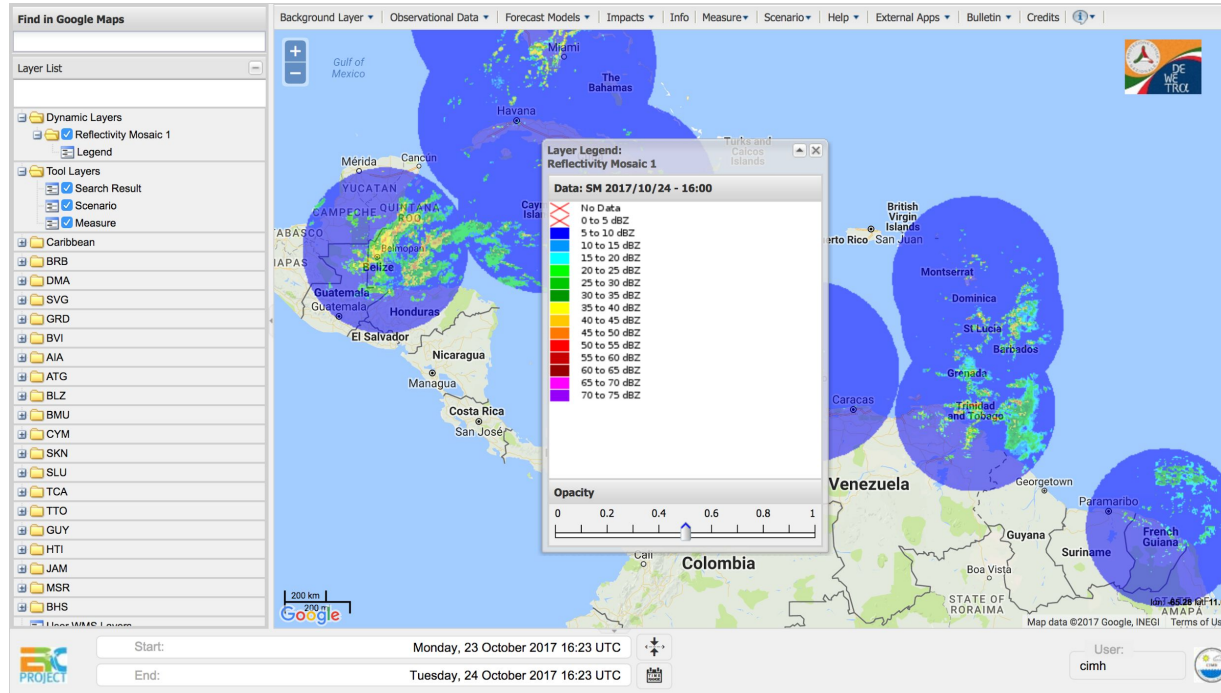


Observations...Satellite



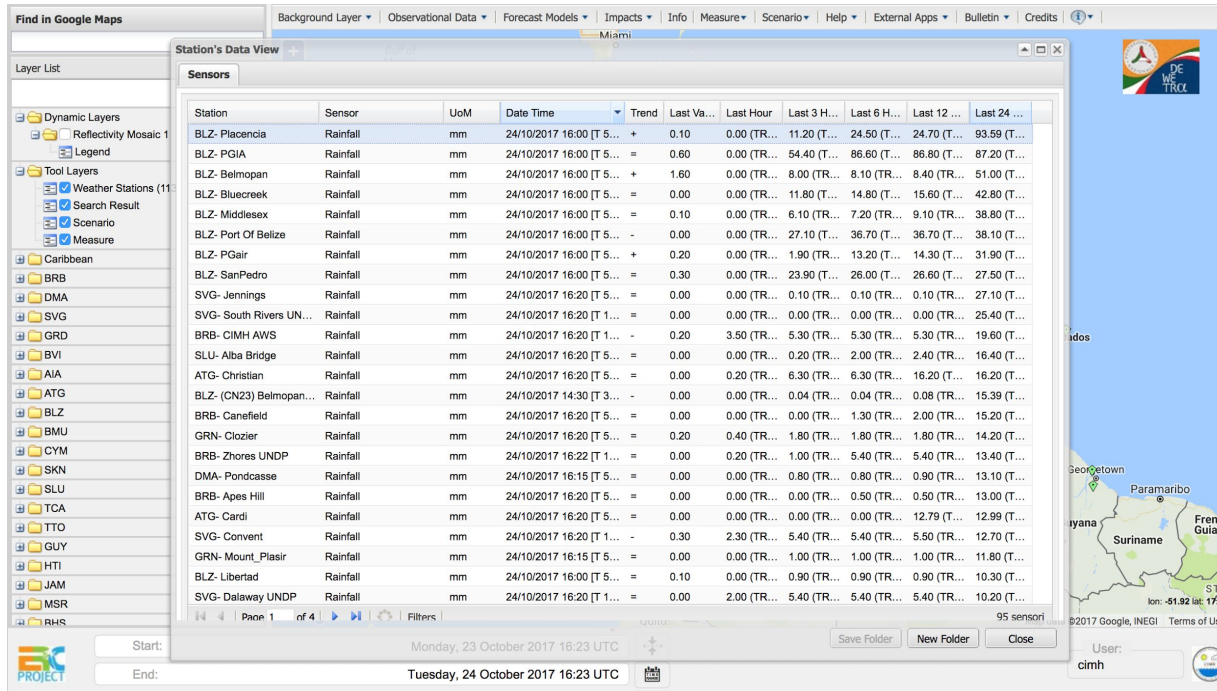
GOES IR Loop at 2017/10/24 from 0615 to 1315 UTC.

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

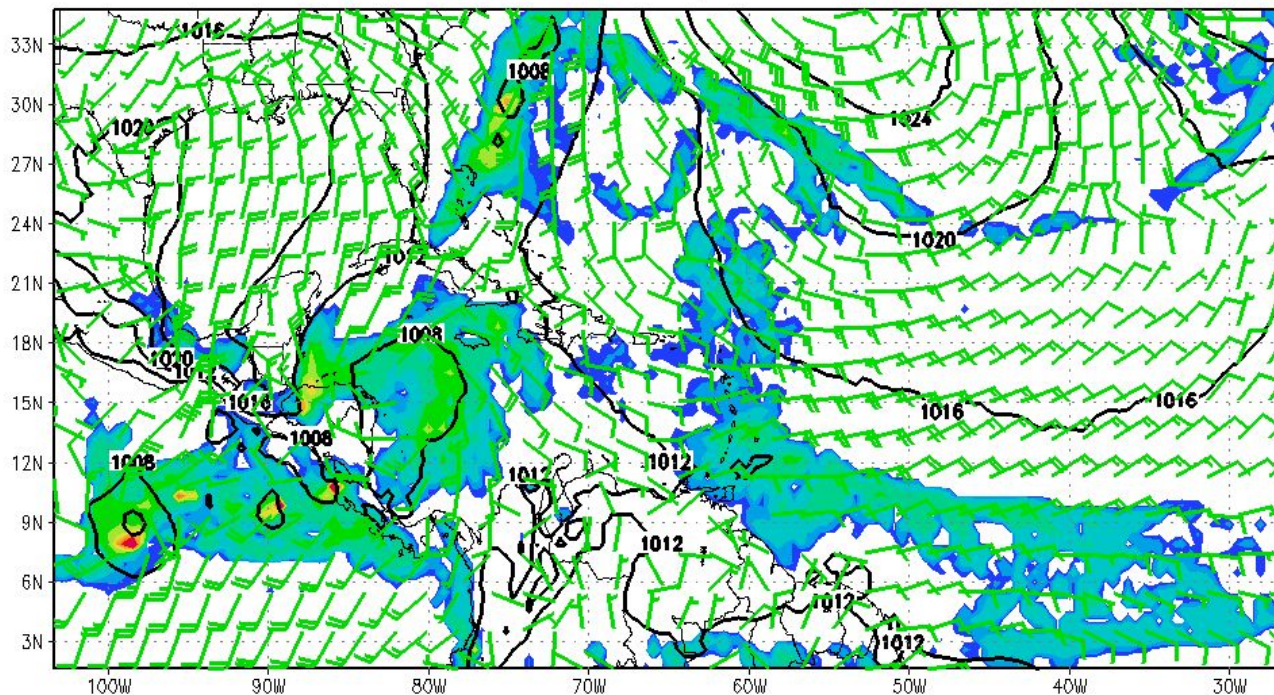


Rainfall observations from CIMH observational network show 12 - 25 mm of rainfall across the eastern Caribbean during the last 24 hours.

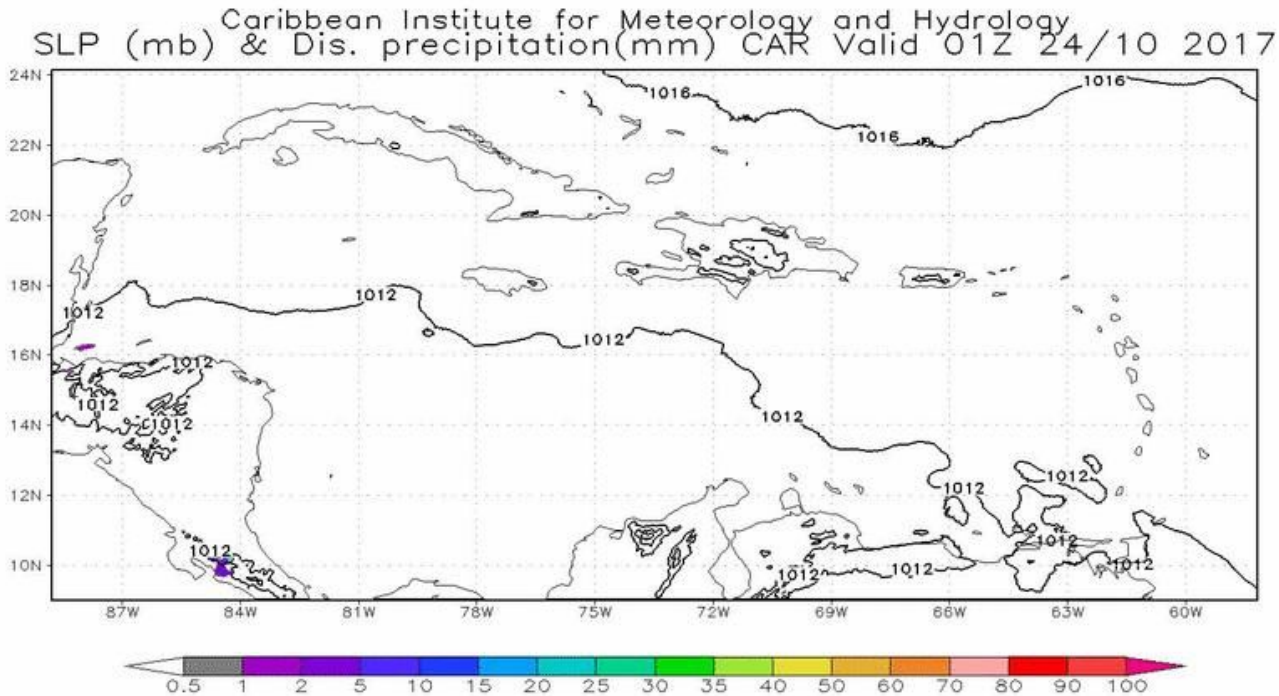
Model Outlook...

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 western Caribbean being monitored

SLP(mb)/3hr RAINFALL(mm)/SFC WIND Overlay
Valid 00Z 26/10 2017



Model Outlook...cont'd



CIMH km WRF 1hr Rainfall (mm) Valid 2017/10/24 0000 UTC + 48 hours showing area rainfall persisting 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 will progress to the west in the next 24 hours. 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 it 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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