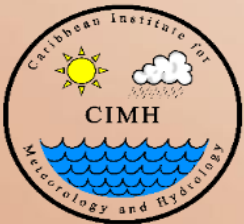


# Heat Outlook for September 2025 to February 2026

—  
Episodes of excessive heat expected through September or October

## Participating countries and territories

Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haïti, Jamaica, Martinique, Puerto Rico, St. Barth's, St. Kitts & Nevis, St. Lucia, St. Maarten/St. Martin, St. Vincent & the Grenadines, Suriname, Trinidad & Tobago and the US Virgin Islands



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**CARICOF**  
CARIBBEAN CLIMATE OUTLOOK FORUM

# Health: Recurrent episodes of excessive heat *likely* peaking in September; regionally lower levels of impact than in 2023 or 2024

## Public health:

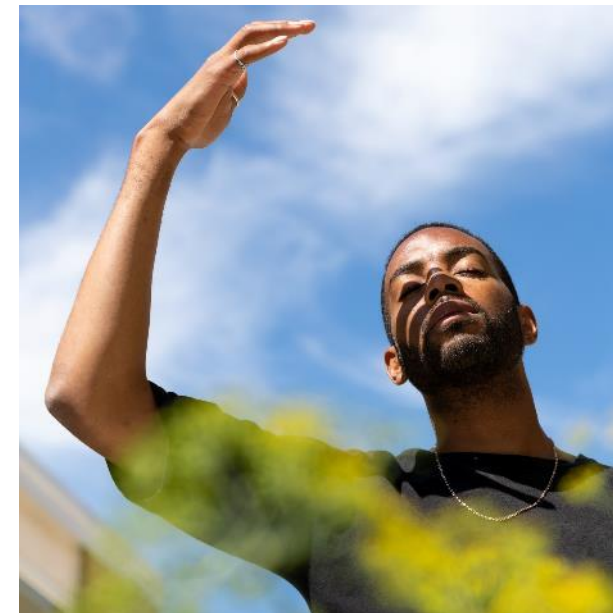
- *significant* increase in mild heat symptoms
- *likely* increase in heat illnesses, fainting episodes, hospitalisations, health services
- *likely* increase in biological risk (e.g. Aedes mosquito borne diseases, gastrointestinal disease)
- *exacerbation* of vulnerability in patients with chronic illness, children, pregnant women and the elderly

## Occupational health:

- *potential* increase in exhaustion during intense outdoor activity
- *significantly* reduced labour performance and productivity if unprotected

## Well-being:

- *significantly* increased sweating and water consumption
- snacking/binge eating leading to acute negative health impacts (hypertension, diabetes) and weight gain
- *increased* fatigue, irritability and aggression during prolonged heatwaves



# Agriculture: Expect impacts from recurrent, excessive heat, *likely* peaking in September



## Livestock:

- *increased* cooling and ventilation need to mitigate heat stress in small and large livestock
- stunted growth rate of broilers and egg production of layers
- *likely* reduced dairy production

## Crop agriculture:

- *exacerbation* of any evolving drought conditions leading to increased wilting
- *significantly* reduced productivity between 10 AM and 3 PM

## Fisheries:

- *increased* water temperatures potentially reducing catch of reef fish, die-off and migration of pelagic fish
- potential for coral reef bleaching as early as August

## Forestry:

- *exacerbation* of any evolving drought conditions
- increased wildfire potential wherever fuel stock is dry



# Tourism – Energy – Water: Expect impacts from recurrent, excessive heat, *likely* peaking in September

## Tourism:

- **Heat adaptation** – *significantly* increased demand for AC and refrigeration and associated costs in hotels
- **Diving operations** – *significant* potential coral reef bleaching, resulting in long-term reduction in demand



## Energy:

- **Production** – reduced efficiency of power generation; potential increase in interruptions as a result of spikes in cooling demand
- **Demand and consumption** – *significantly* increased cooling need in households, hotels, restaurants



## Water:

- **Quantity and quality** – recharge of water reservoirs along the wet season slowed down due to increased evapotranspiration; *potential* increase in algal blooms
- **Consumption** – *likely* increase in households, hotels and power utilities



# DRM – Child Care & Education: Expect impacts from recurrent, excessive heat, *likely* peaking in September



## DRM:

- **Risk:** *potentially* increased mortality and increased need for cooling strategies immediately post disaster (e.g. intense heat after passage of tropical cyclone); increased wildfire potential (wherever fuel stock is dry)
- **Operations:** *likely* reduced productivity of warehouse staff if unprotected

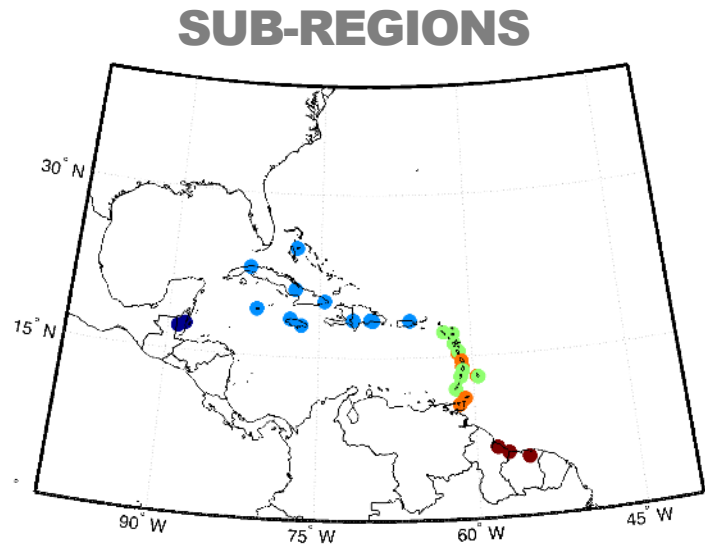
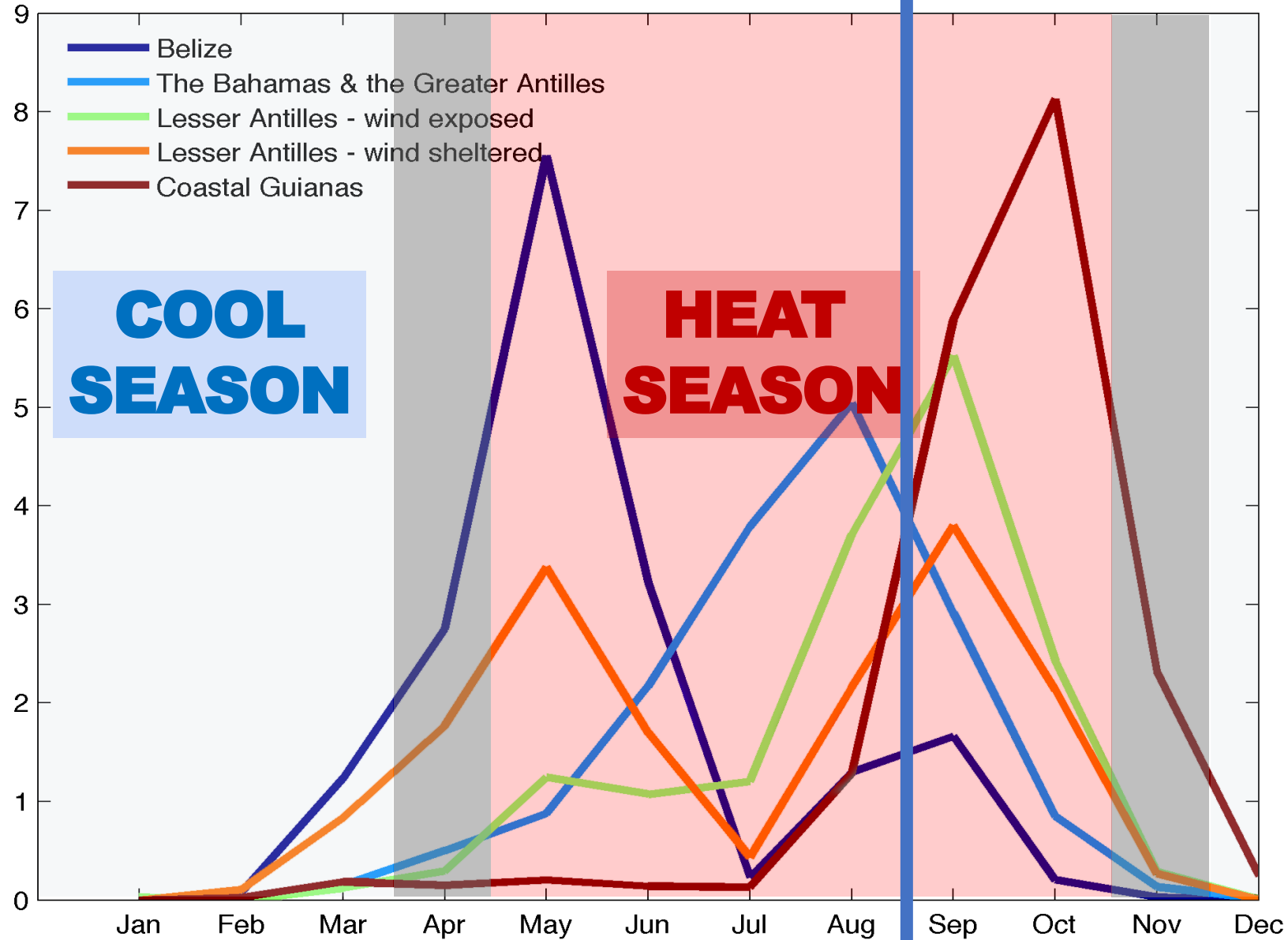


## Child care and education:

- **Learning:** *significantly* reduced productivity and reduced learning ability of students during the summer semester and during the first two months of the 2025-2026 school year
- **Child Protection:** *potential* increase in aggression during prolonged heatwaves

**TODAY**  
(late-August)

Number of days per month  
spent in heatwaves

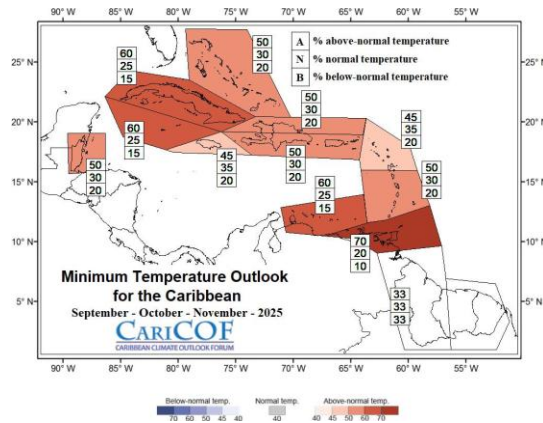




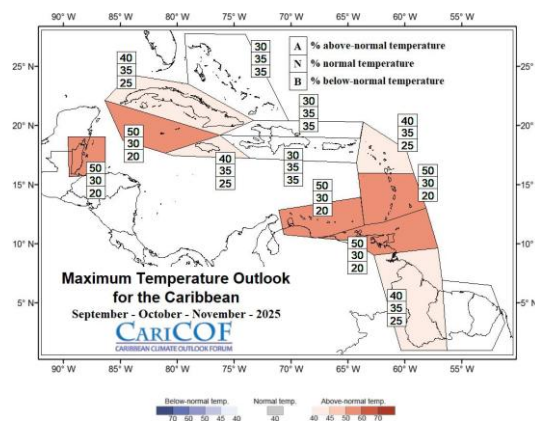
# Overall, how hot will the next three to six months be?

Sep-Oct-Nov 2025

## Night-time



## Daytime



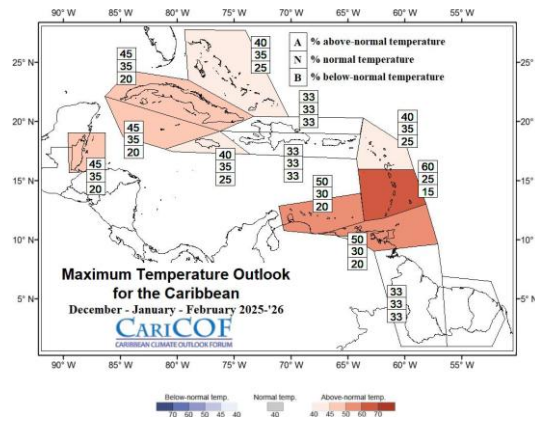
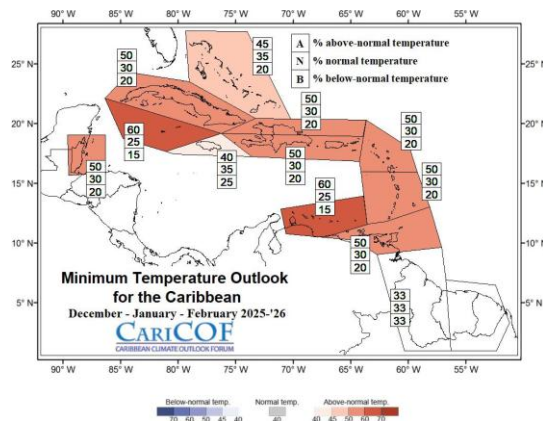
## FORECAST

1. September to November, marking the peak of and transition out of the Caribbean Heat Season, is forecast to *likely* be at least as warm as usual, particularly at night, unless stronger than average cooling breezes maintain or cooling rains are very frequent.
2. As the Heat Season subsides after October – or November in the Guianas –, the recurrence of excessive heat decreases into the Cool Season (Dec. to Feb.).

## IMPLICATIONS

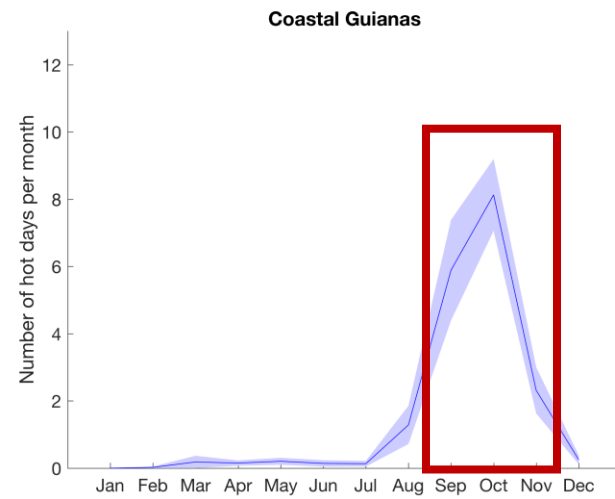
- Frequent and possibly intense episodes of heat stress in the vulnerable population & small livestock because of high temperature and increasing humidity through October.
- Cooling needs set to peak in August and September (or, in Guianas, October).

Dec-Jan-Feb 2025/26

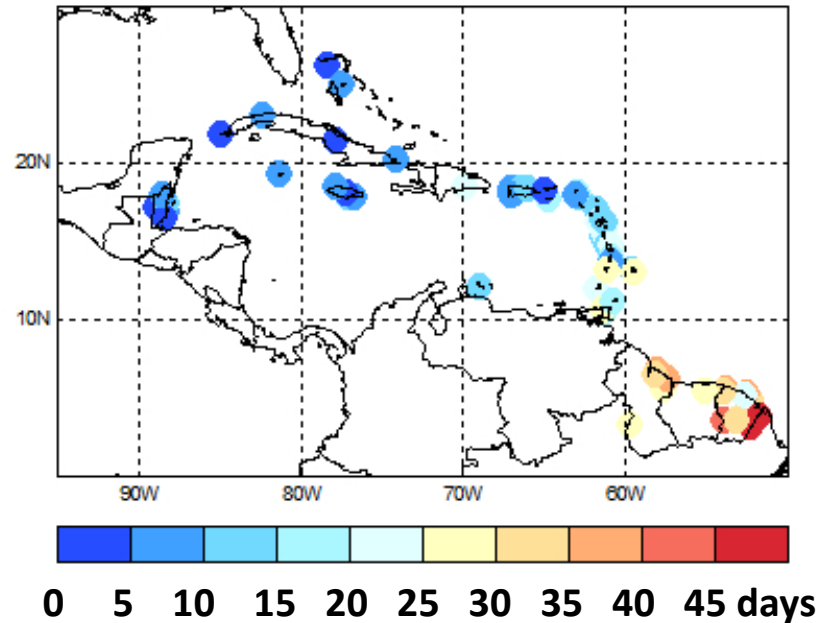


← Milder Usual Hotter →

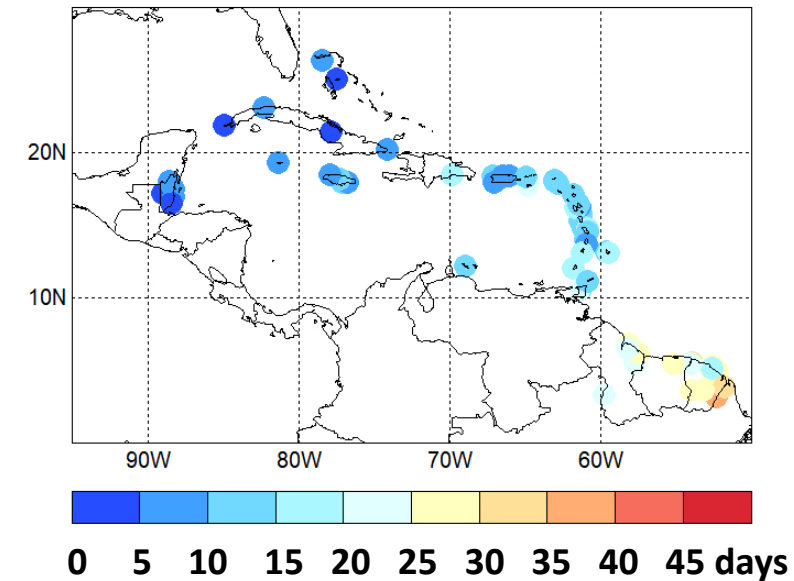
# How many days spent in hot spells to expect for September to November 2025?



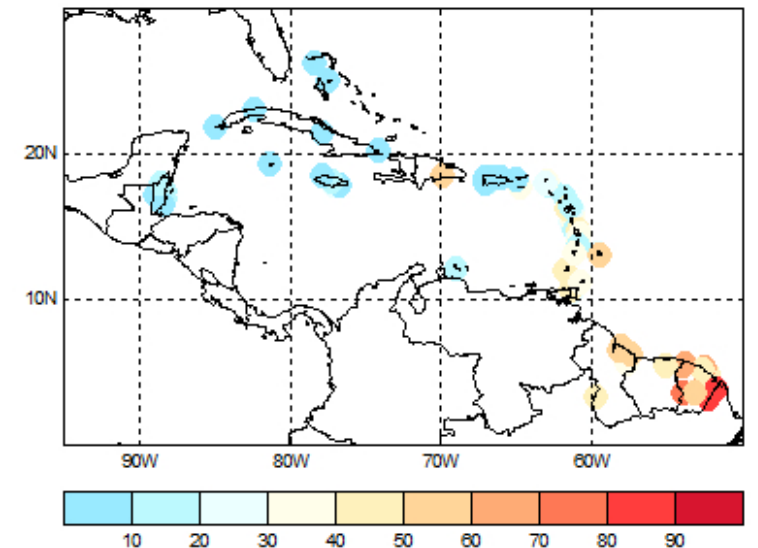
# Hot-spell days from September to November 2025



# Hot-spell days from Sep. to Nov. (1991-2020)




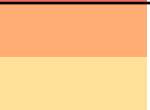
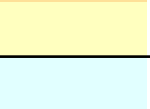


Prob. at least 30 hot-spell days from Sep. to Nov. 2025



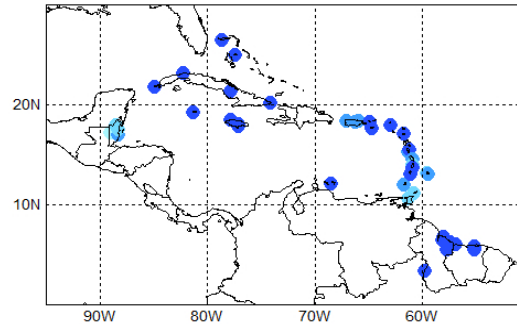
**USUALLY:** 25-40 hot-spell days in the Guianas, 10-25 hot-spell days in ABC Islands, Lesser Antilles and Dominican Rep.; 0-15 hot-spell days elsewhere.  
**FORECAST:** Higher than usual number of hot-spell days in the Guianas; slightly higher than usual in Barbados, Trinidad & Tobago, the Windward Islands; little change from the usual number elsewhere (*medium confidence*); **likely at least 30 hot-spell days in parts of French Guiana.**



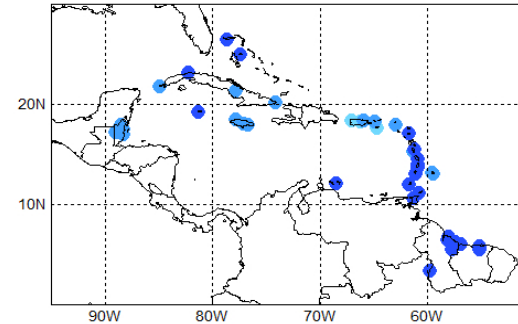
# Heat impact potential due to heatwaves during the Heat Season (historical averages)

Heat impact potential	Colour codes	Percentage of time spent in heatwaves
<b>EXTREMELY HIGH</b>		>80%
<b>HIGH</b>		50-80%
<b>MODERATE</b>		20-50%
<b>SLIGHT</b>		10-20%
<b>MARGINAL</b>		0-10%

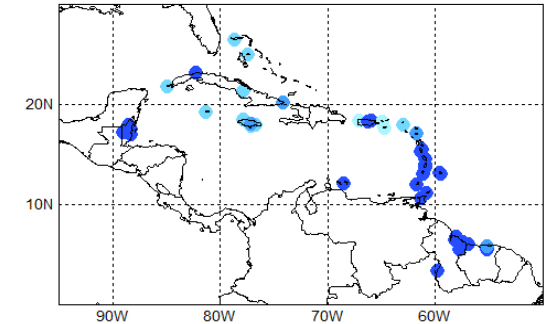
**May**



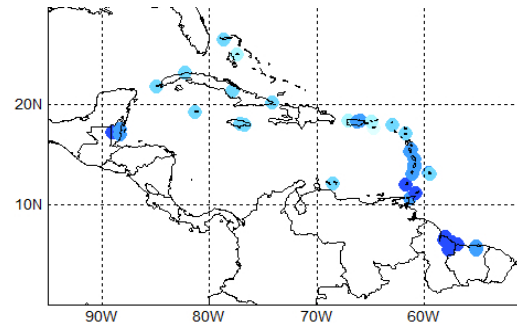
**June**



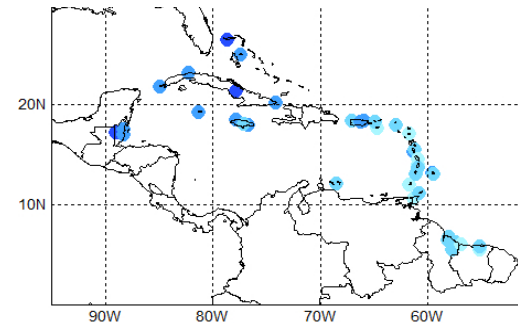
**July**



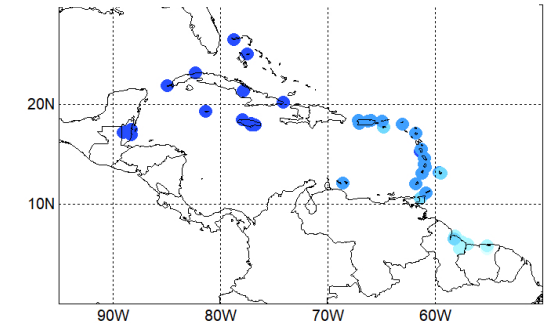
**Aug**



**Sept**



**Oct**



- May: Moderate potential in Belize; marginal to slight elsewhere.
- Jun.: Slight potential in Barbados and areas from St. Martin westwards; marginal elsewhere.
- Jul.: Slight to moderate potential in the Greater Antilles & Leeward Is.; marginal to slight elsewhere.
- Aug.: Moderate potential in Barbados & islands westwards of Guadeloupe; marginal elsewhere.
- Sep.: Moderate potential in the ABC Is., Lesser Antilles, Guianas; marginal to slight elsewhere.
- Oct.: Moderate potential in Barbados, the Guianas & St. Croix; marginal westwards of Hispaniola; slight elsewhere.



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Coordination: Caribbean Institute for Meteorology & Hydrology  
Contact: [caricof@cimh.edu.bb](mailto:caricof@cimh.edu.bb)  
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