

Heat Outlook for May to October 2024

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Near-record heat can be expected until October (particularly in August and September)

Participating countries and territories

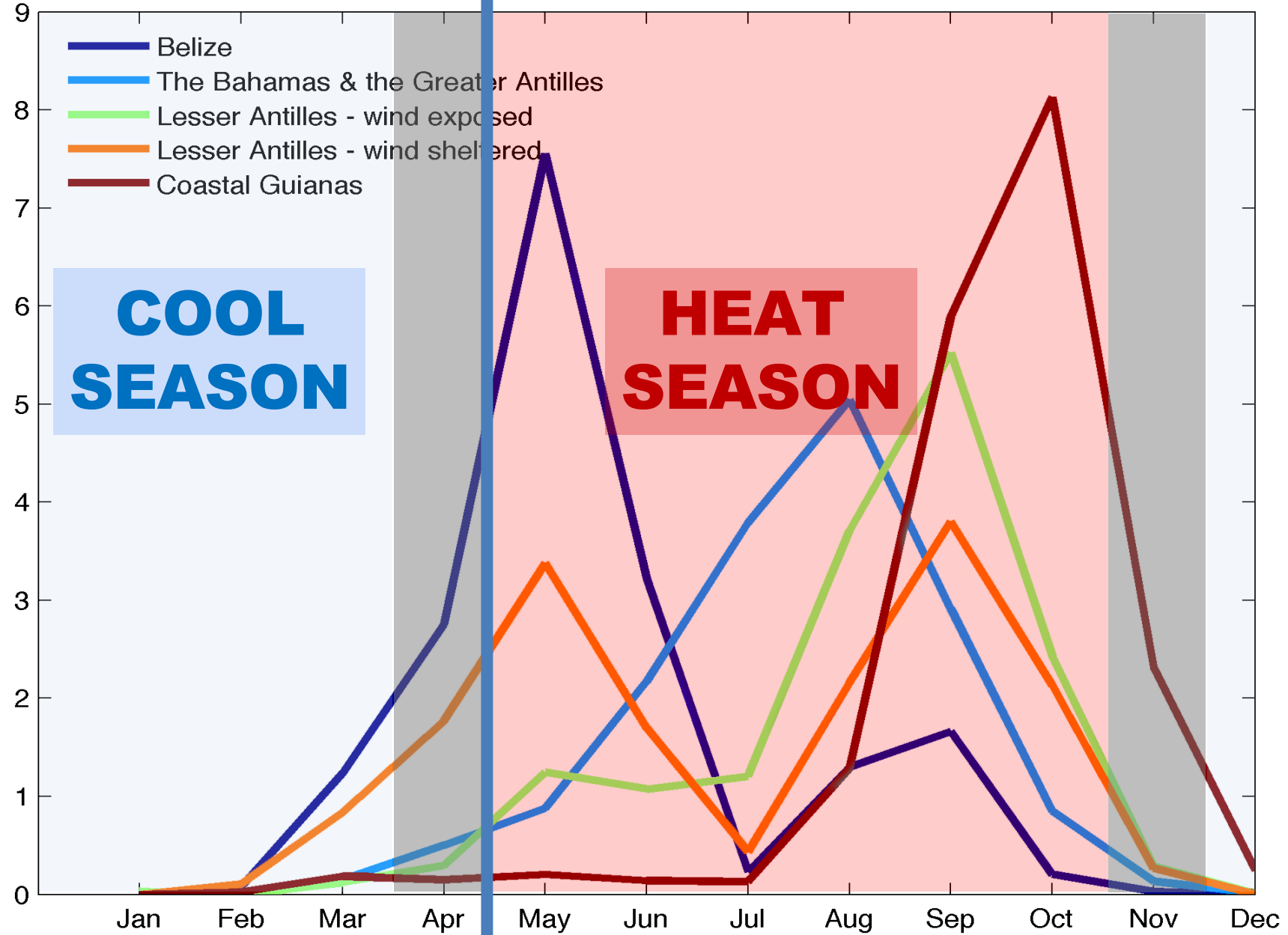
Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haiti, Jamaica, Martinique, Puerto Rico, St. Barth's, St. Kitts & Nevis, St. Lucia, St. Maarten/St. Martin, St. Vincent & the Grenadines, Suriname,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



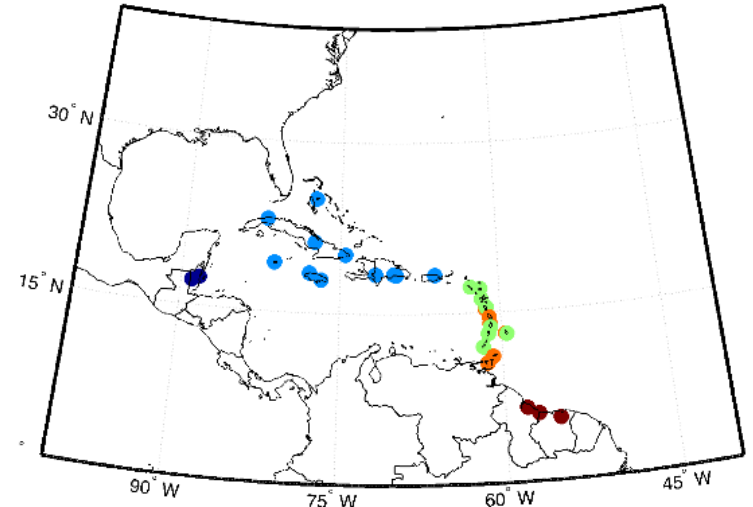
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Number of days per month spent in heatwaves

TODAY
(late-April)



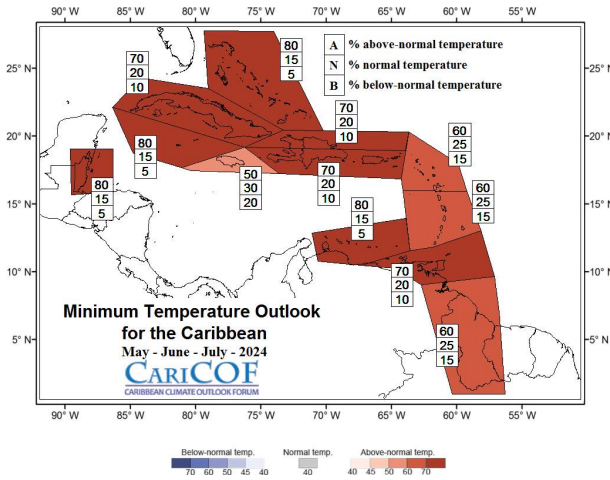
SUB-REGIONS



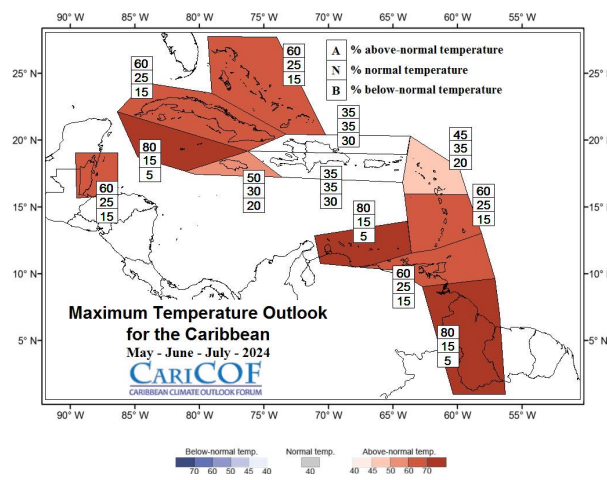
Overall, how hot will the next three to six months be?

May-Jun-Jul 2024

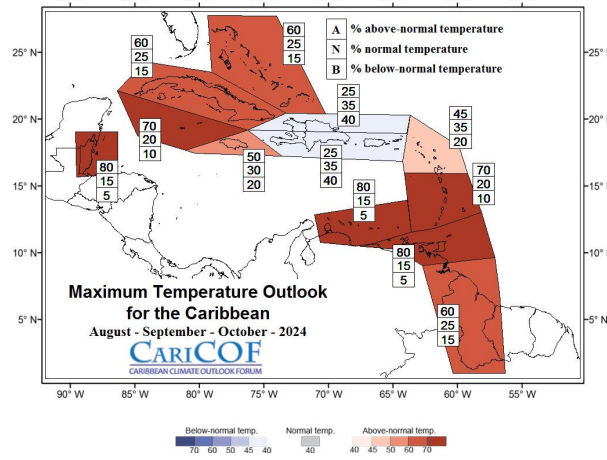
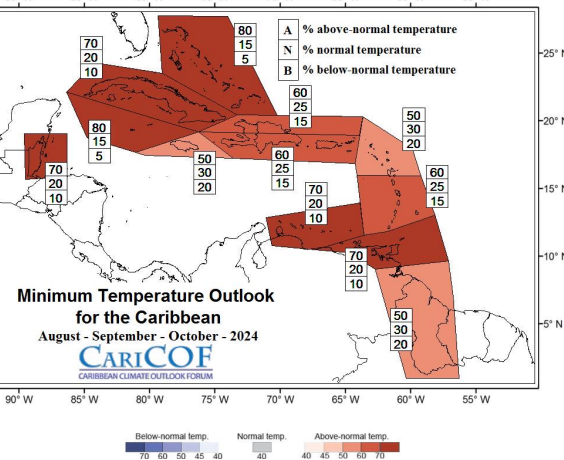
Night-time



Daytime



Aug-Oct 2024



← Milder Usual Hotter →

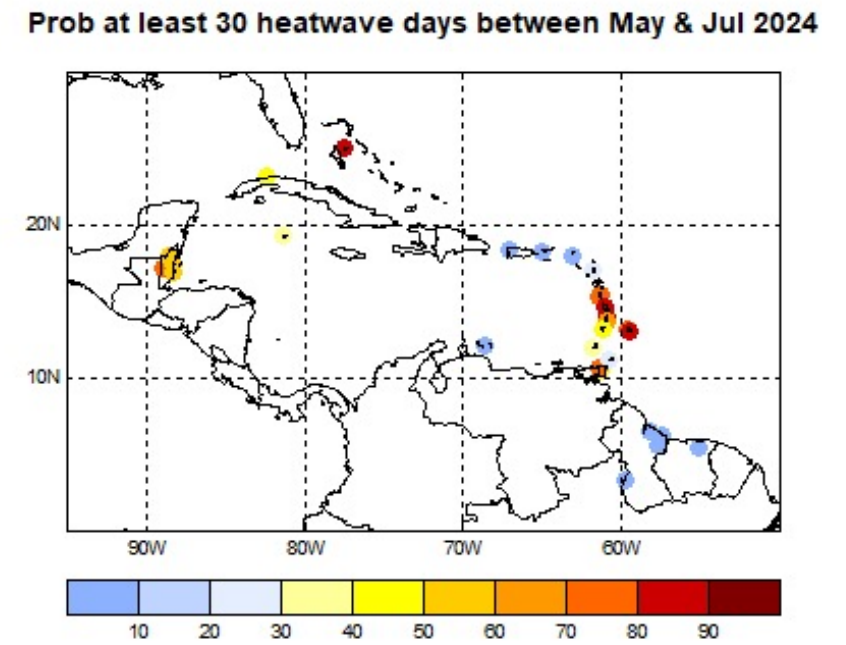
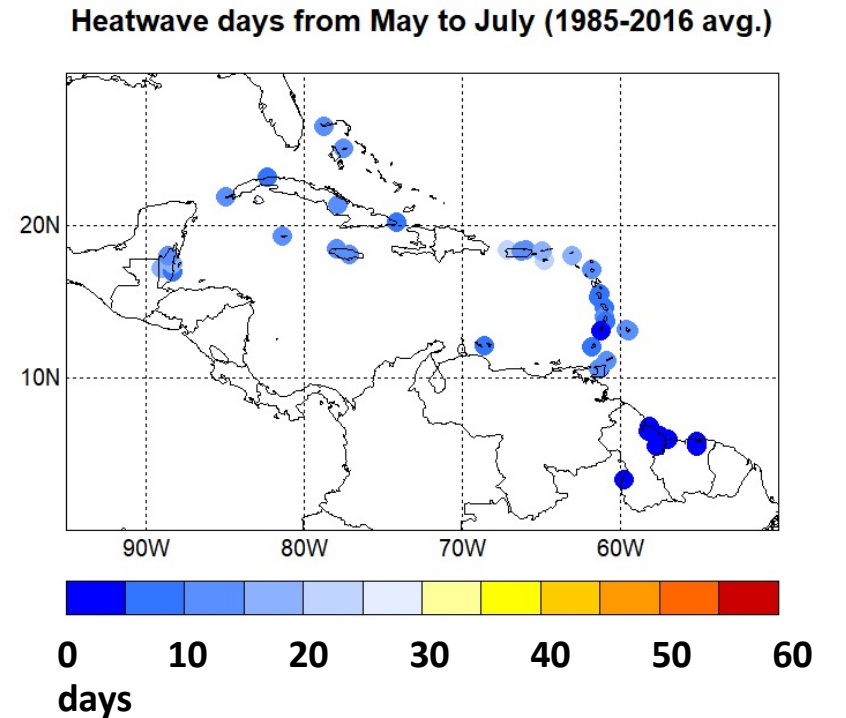
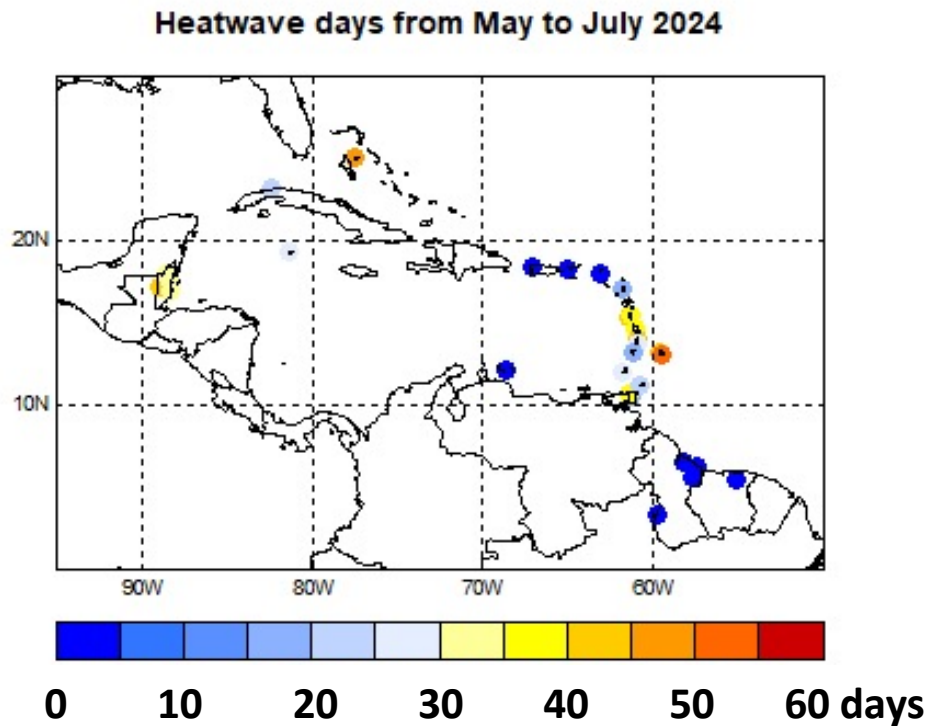
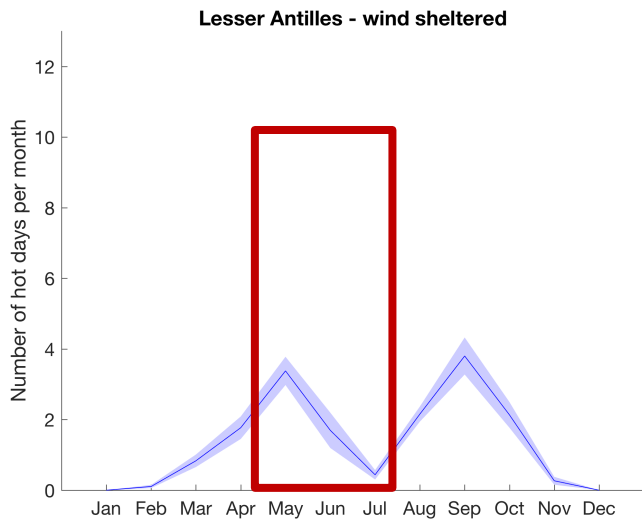
FORECAST

1. May to July, marking the early part of the Caribbean Heat Season in the Caribbean Islands and Belize is forecast to be noticeably hotter than usual.
2. Intense, (near-)record night-time and daytime heat with increasing humidity from June to September.

IMPLICATIONS

- Frequent, likely intense and possibly persistent episodes of heat stress in the vulnerable population & small livestock because of high temperature and increasing humidity through September.
- Cooling need rising faster than



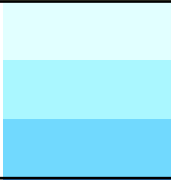

How many heatwave days to expect for **May to July 2024** (i.e., the peak of dry heat in wind-sheltered areas of the Lesser Antilles)?



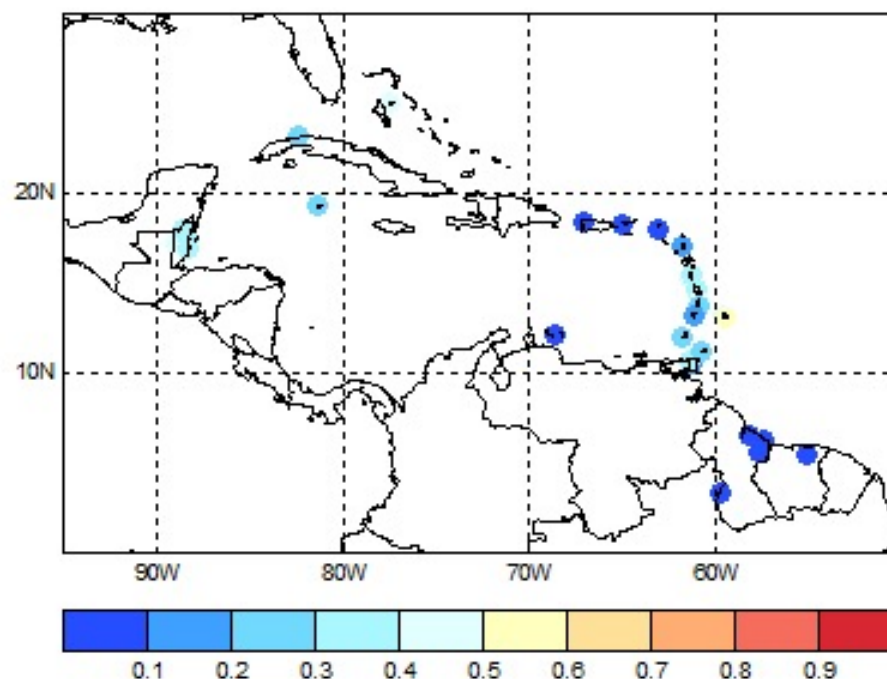
USUALLY: 15-20 heatwave days in Puerto Rico, northern Leeward Islands; 5-10 heatwave days in Belize, wind-sheltered areas of the Lesser Antilles.

FORECAST: 30 to 50 heatwave days in The Bahamas, Barbados, Trinidad and wind-sheltered areas of the Windward Islands; **likely at least 30 heatwave days in The Bahamas, Barbados, Belize, Dominica, Martinique Saint Lucia, and Trinidad.**

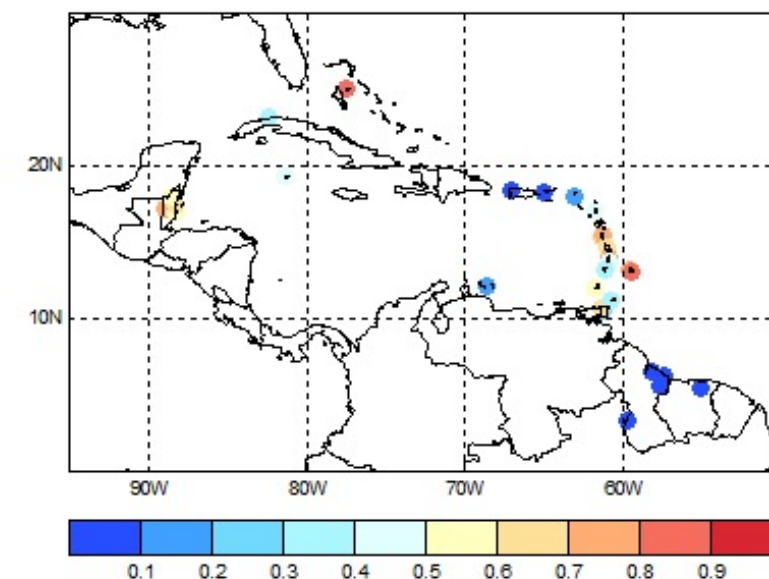
Heat impact potential during **May-Jun-Jul 2024?** *(i.e., percentage of time spent in heatwaves during MJJ 2024)*

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

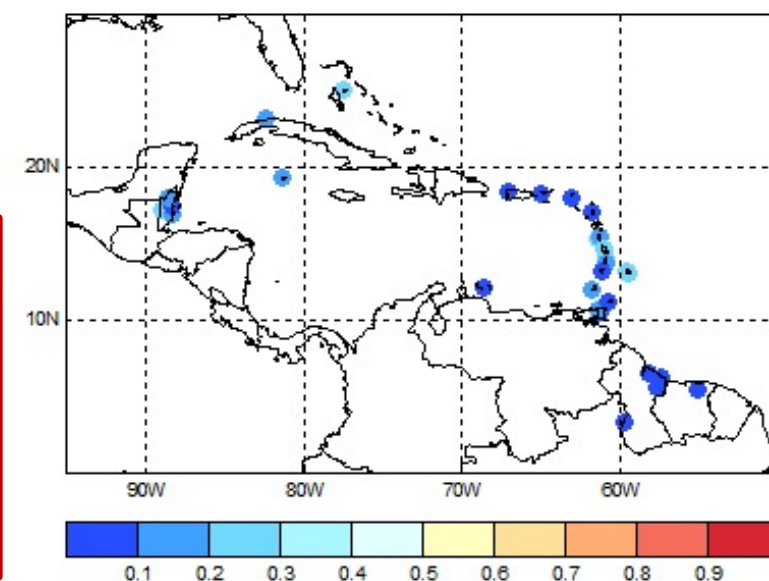
Forecast Heat Impact Potential - May-Jun-Jul 2024



Heat Impact Potential - May-Jun-Jul 2024 (upper)




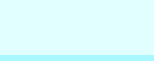
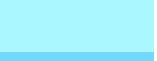




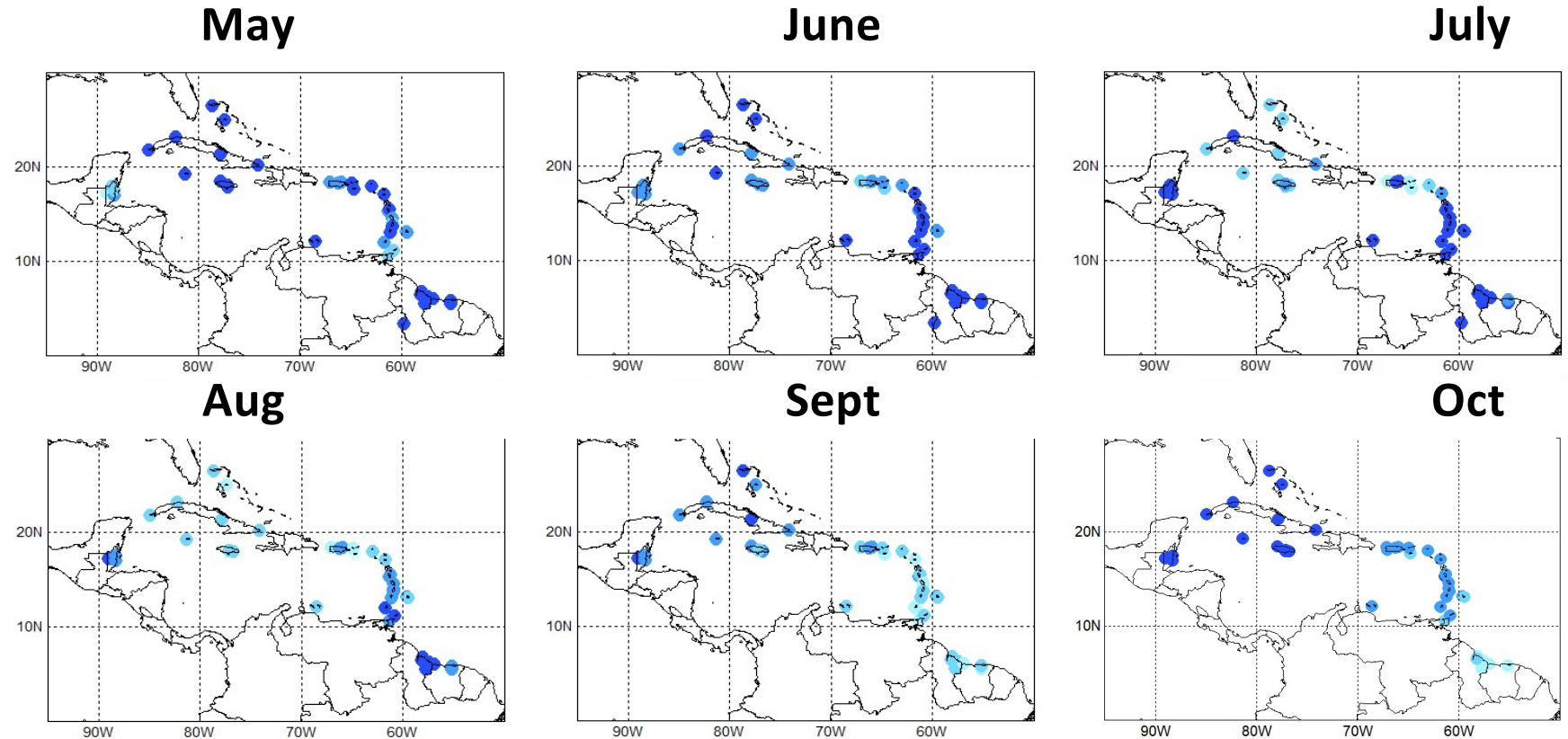
Heat Impact Potential - May-Jun-Jul 2024 (lower)



FORECAST: High potential in Barbados; moderate potential in The Bahamas, Belize, Cayman Is., Cuba, Trinidad & Tobago, Windward Is.; marginal to slight potential in the ABC Islands, Guianas, Puerto Rico, Leeward Islands *(left centre map)*;
extr. high potential possible in Barbados. *(top right map)*.

Historical monthly heat impact potential due to heatwaves during the heat season

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



- 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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**Regional climate data, information, tools,
experimental and operational products
are available at
rcc.cimh.edu.bb**

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