Heat Outlook for October to March 2023-24

Frequent excessive heat can still be expected in October in the Caribbean, especially south of Guadeloupe

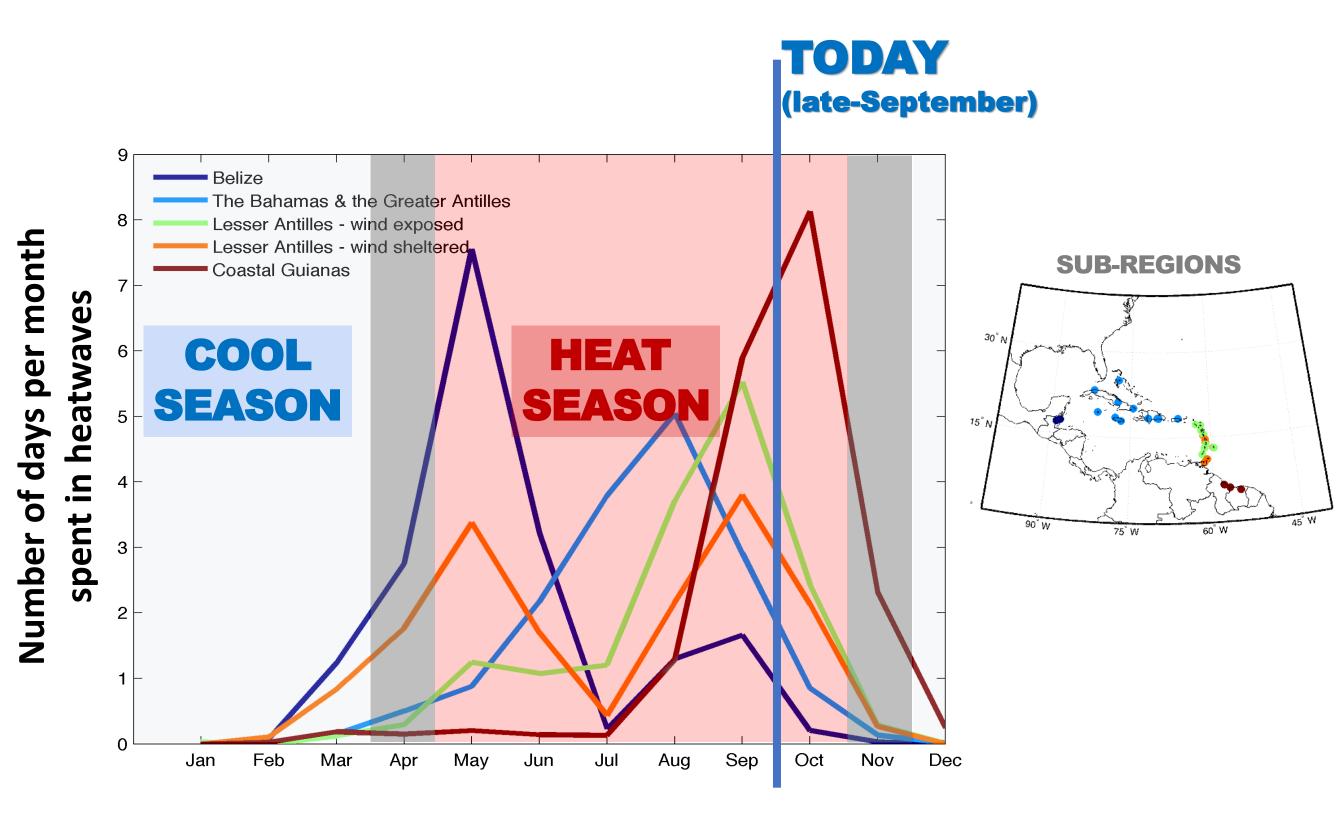
Participating countries and territories

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

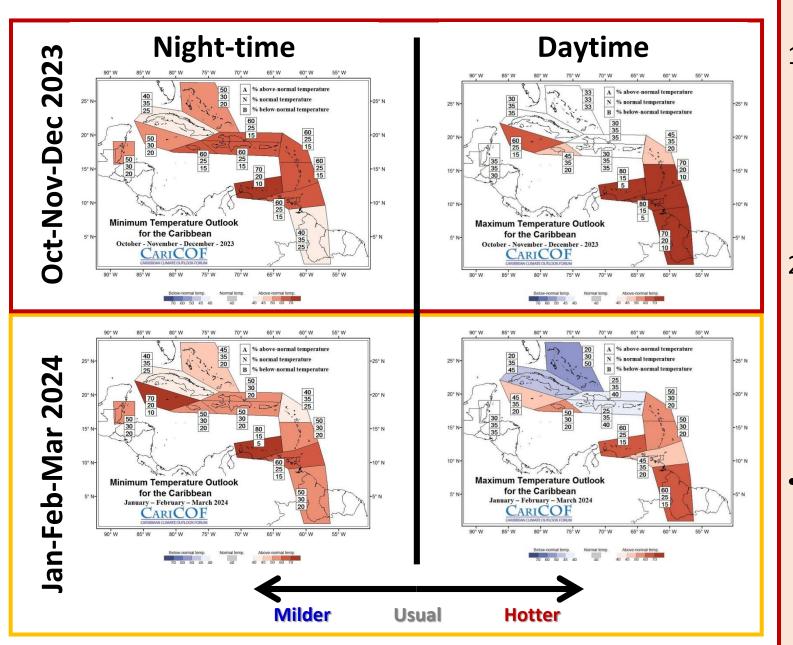




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Overall, how hot will the next three to six months be?



FORECAST

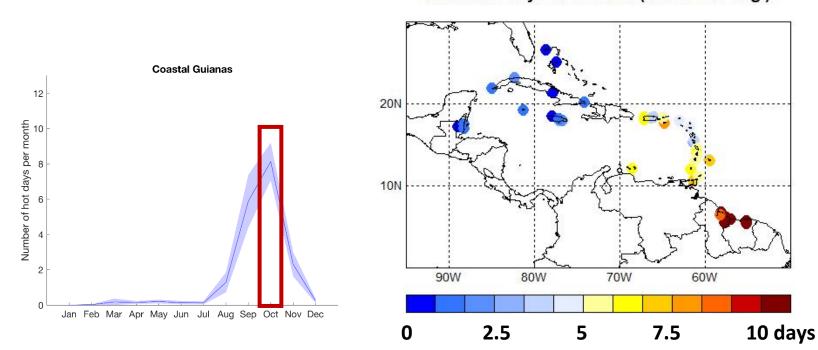
- October marking the last month of the Caribbean Heat Season – is forecast to be even warmer than usual with intense night-time and daytime heat prevailing possibly extending into early-November.
- Though milder temperatures should prevail from late-November, they will remain warmer than usual for most, except for the Bahamas, Cuba, Hispaniola and the US Territories.

IMPLICATIONS

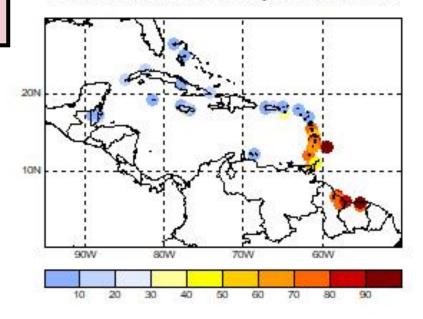
- Frequent and intense episodes of heat stress in the vulnerable population & small livestock because of high temperature and peaking humidity through September (Bahamas, Greater Antilles) or October (elsewhere).
- Significant uptick in cooling need.

How many heatwave days to expect in **October**, the final month of the Caribbean Heat Season?

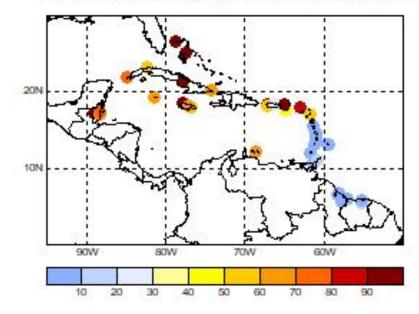
Heatwave days in October (1985-2016 avg.)



Prob. at least 15 heatwave days in October 2023

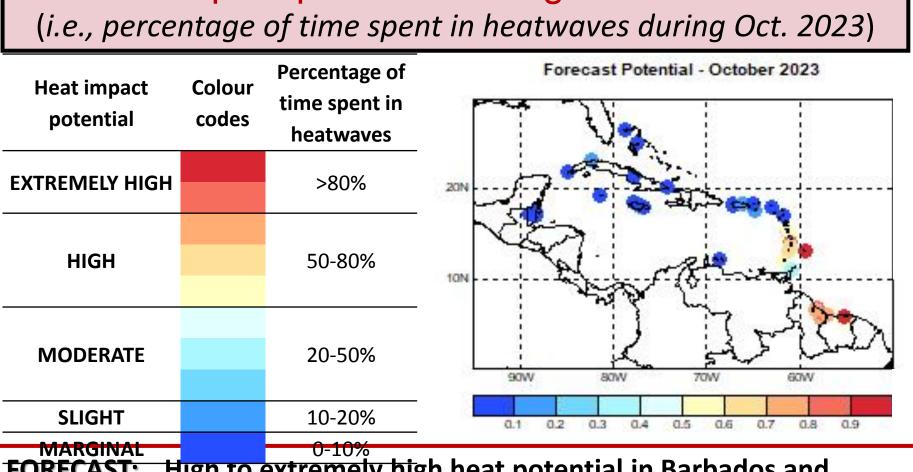


Prob. no more than 3 heatwave days in October 2023



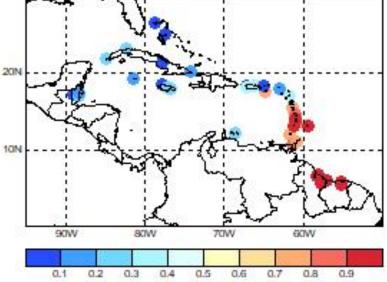
USUALLY: 8-14 heatwave days in coastal Guianas; 3-8 in ABC Is., Lesser Antilles and Puerto Rico; no more than 3 elsewhere.

FORECAST: Strong increase in the number of heatwaves in Barbados, coastal Guianas, Trinidad & Tobago, and Windward Is.; *likely* at least 15 heatwave days in Barbados, coastal Guianas and Windward Is.; *possibly* in parts of Jamaica, in St. Croix and Trinidad & Tobago.

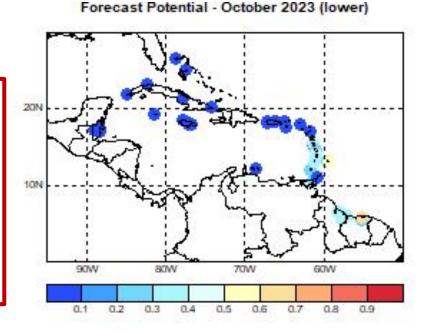


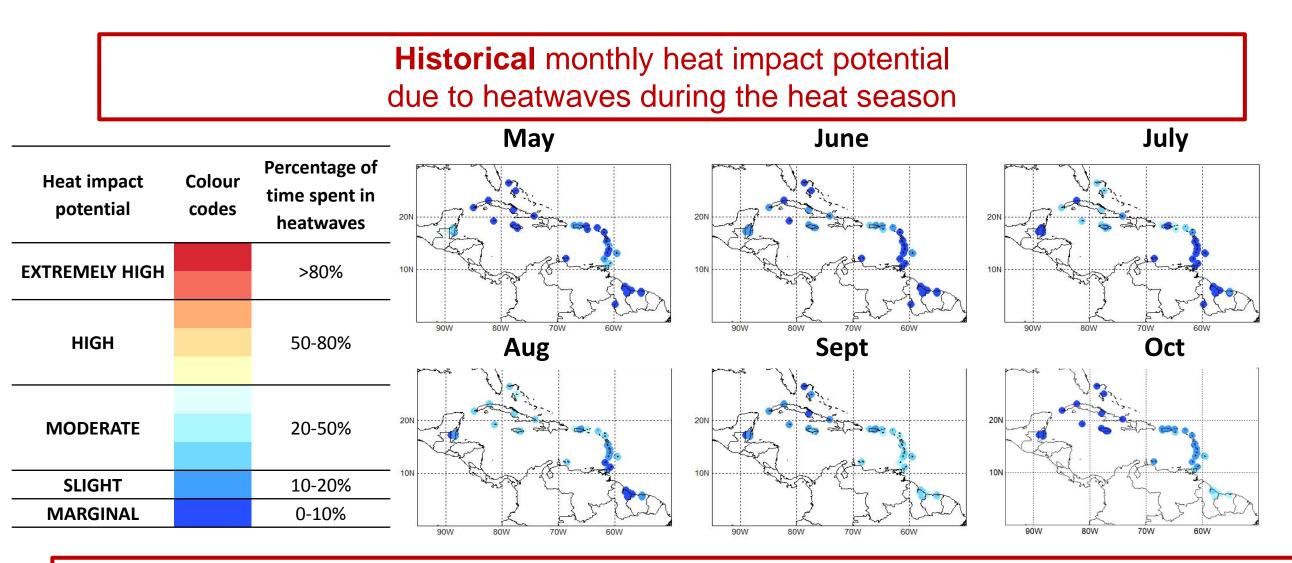
Heat impact potential during October **2023**?

Forecast Potential - October 2023 (upper)



FORECAST: High to extremely high heat potential in Barbados and coastal Guianas; high potential in Windward Is.; moderate potential in Trinidad & Tobago; marginal to slight potential elsewhere. (*left centre map*); *possibly* extr. high potential in the Windward Is.; *possibly* high potential in parts of Jamaica, in St. Croix and Trinidad & Tobago (*top right map*).





- 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.





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

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