

Heat Outlook for October 2020 to March 2021

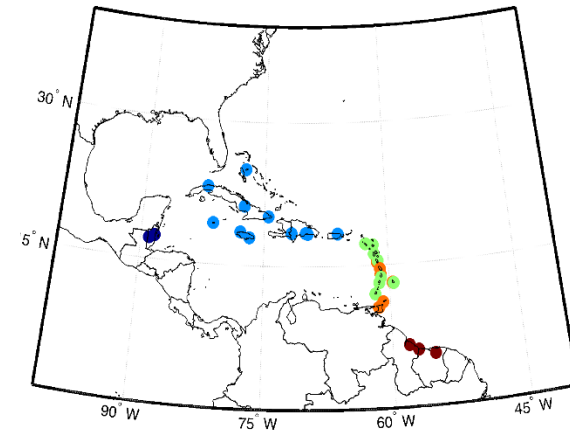
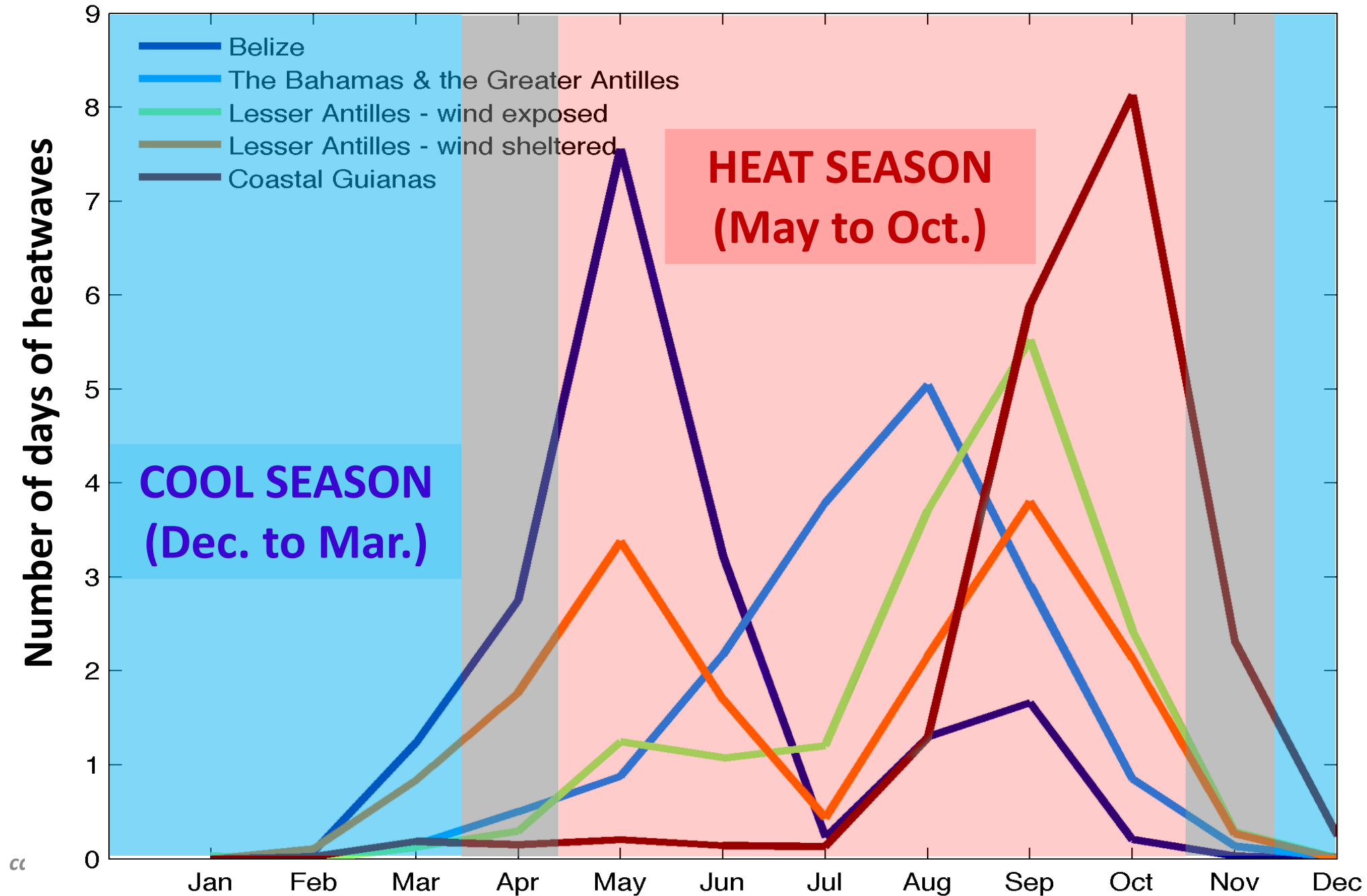
— Frequent excessive heat until late-October

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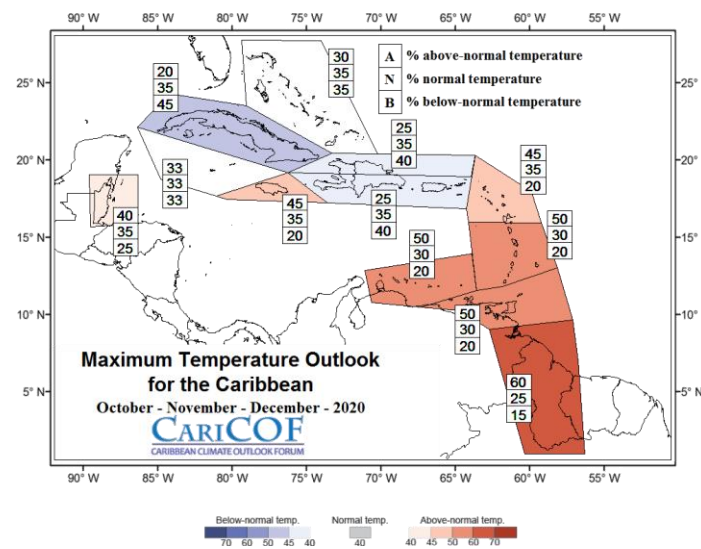
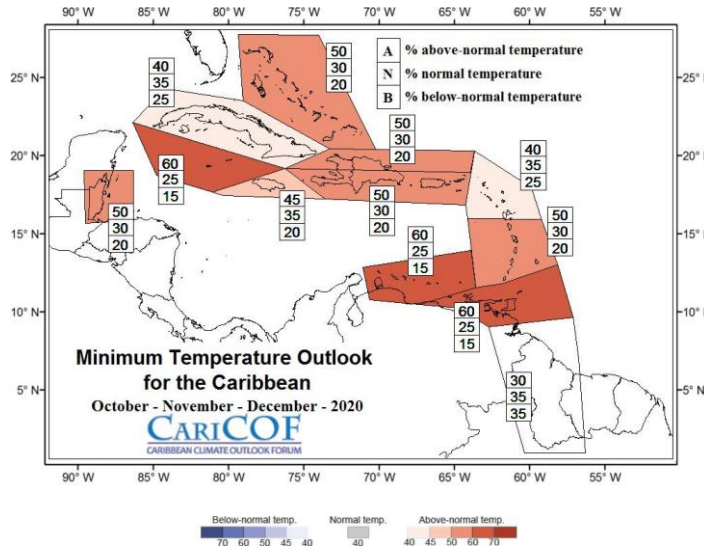
HEATWAVES: SEASONALITY IN THE CARIBBEAN



How hot will the next three to six months be?

Night time

Day time



Milder

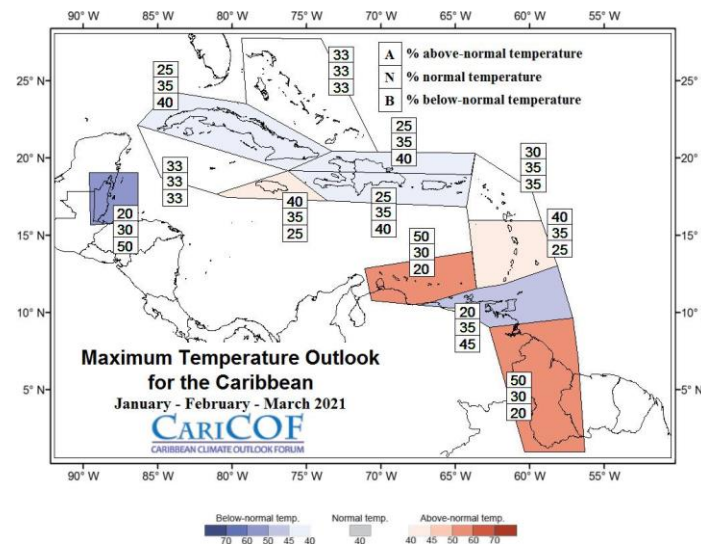
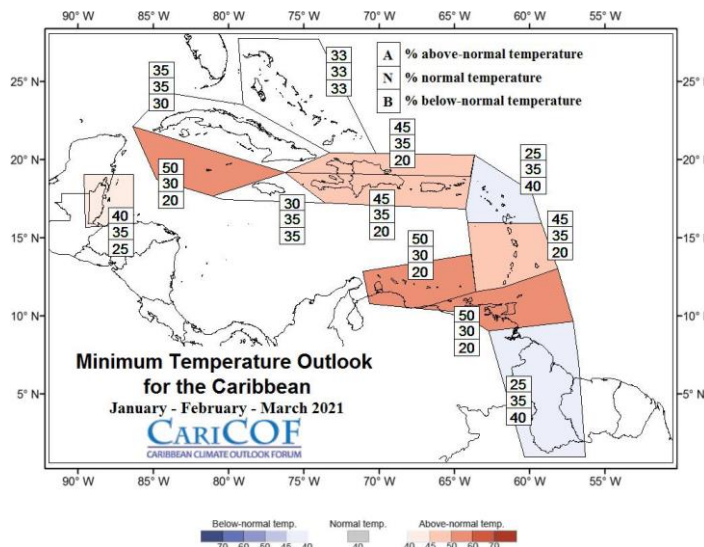
Usual

Hotter

Milder

Usual

Hotter



USUALLY:

- In October, the last month of the Caribbean Heat Season, high temperatures combined with high humidity often result in heat discomfort in the Lesser Antilles and the Guianas.
- In November, the transition month from the Heat to the Cool Season (Dec. to March), heat discomfort steadily decreases as temperatures decrease.

FORECAST:

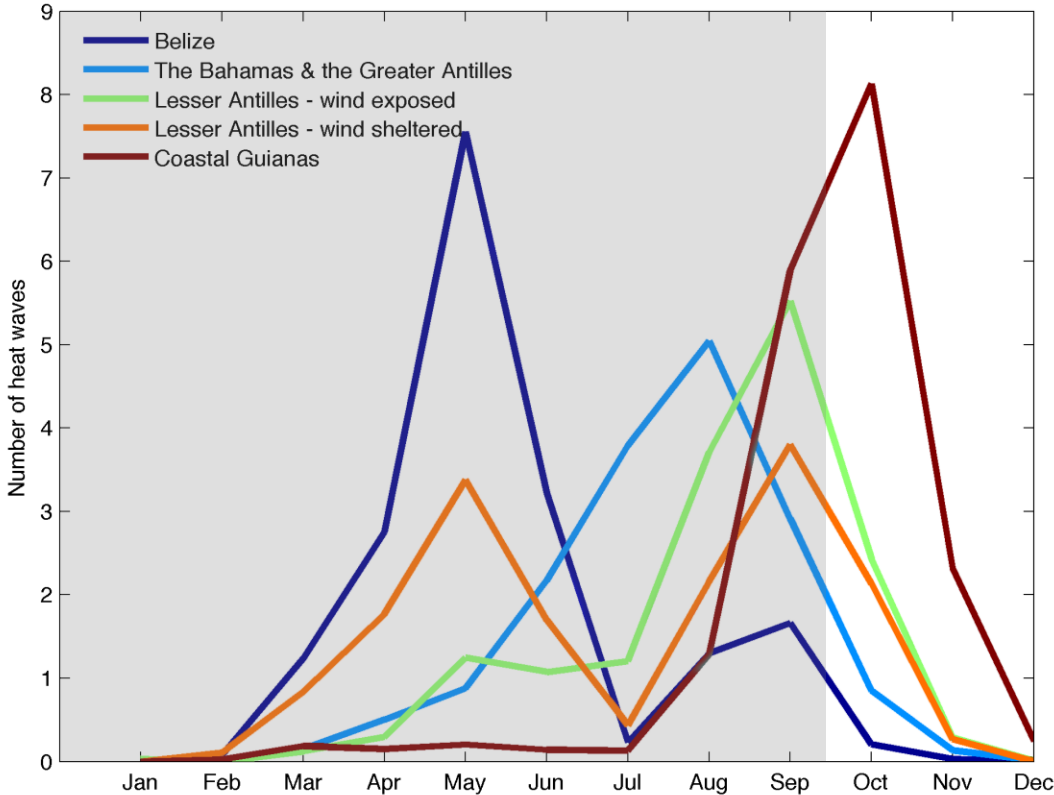
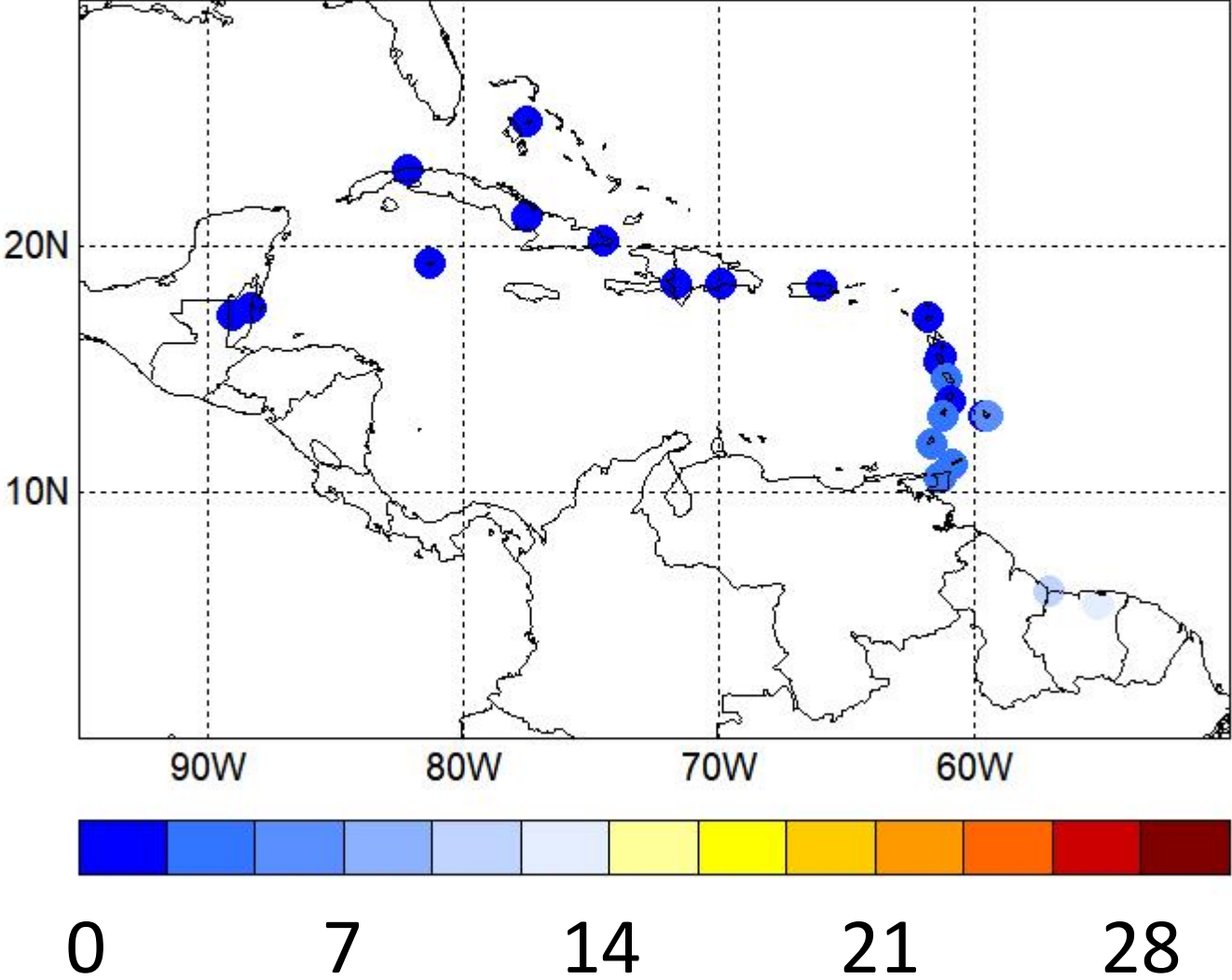
1. The forecast suggests temperatures to be at least as warm as usual between October and December, with the possible exception of Cuba, Hispaniola and the US Territories during the day.
2. As such, it is expected that potentially dangerous heat exposure, particularly during heatwaves, remains a concern in October in Barbados, the Guianas and the Windward Islands.

Oct-Nov-Dec 2019

Jan-Feb-Mar 2020

How many heatwave days do we historically get on average?

From October to December

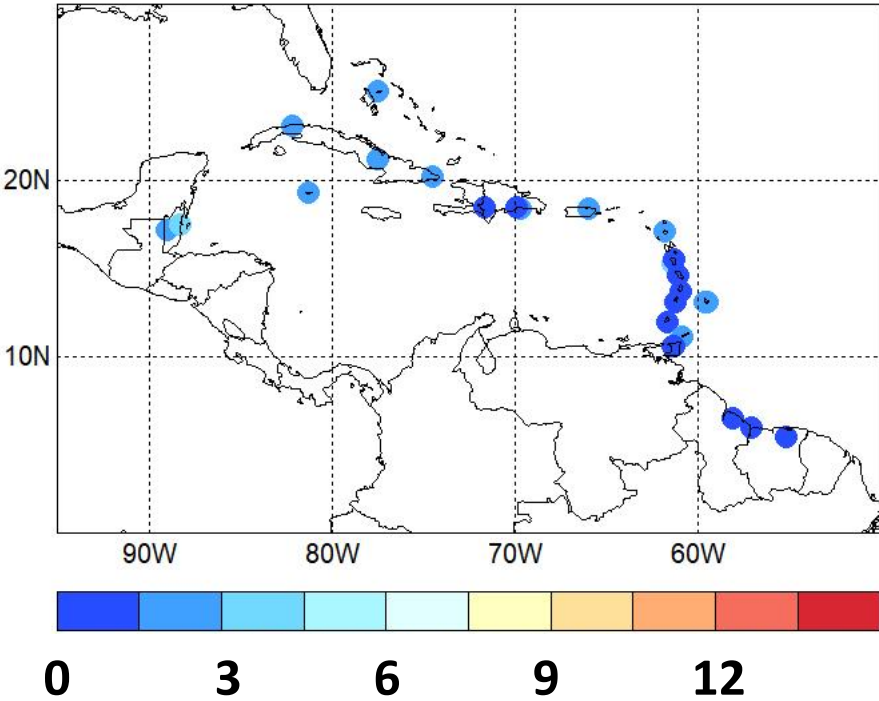


USUALLY:

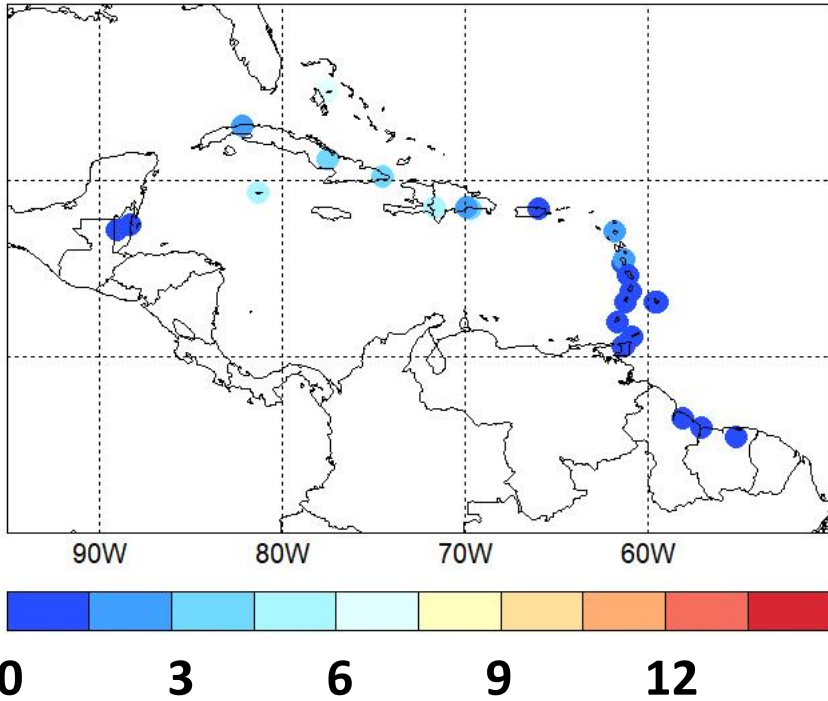
- In most years, up to 7 **heatwave days are counted from October to December** in Barbados and the Windward Isls., and 10-14 in the Guianas, mostly in October.
- October is the last month of the Heat Season in Belize and the Islands, but forms the core of the hot, dry season in the Guianas.

Historically, how many heatwave days on average per month?

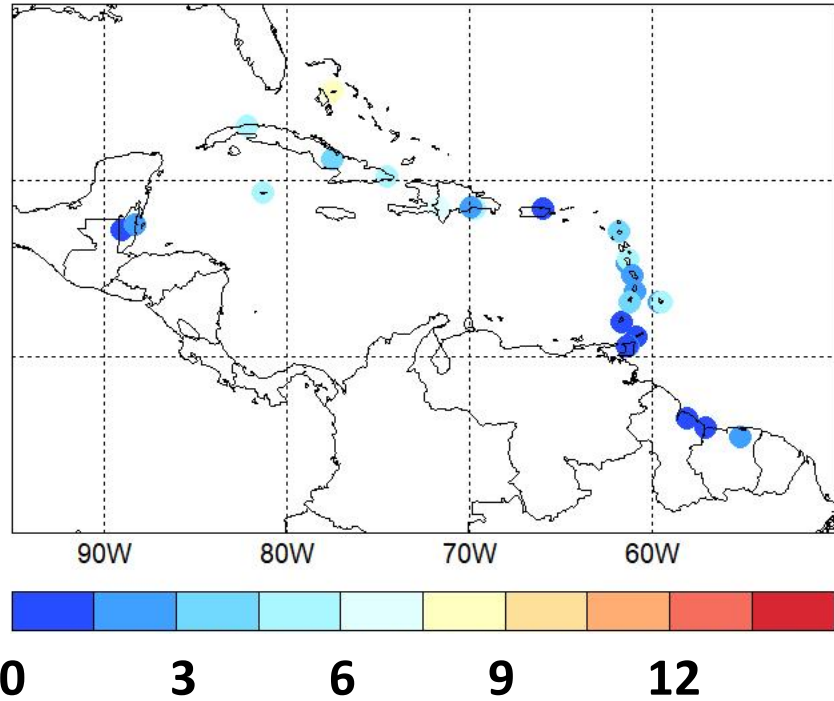
Avg. # heatwave days in June



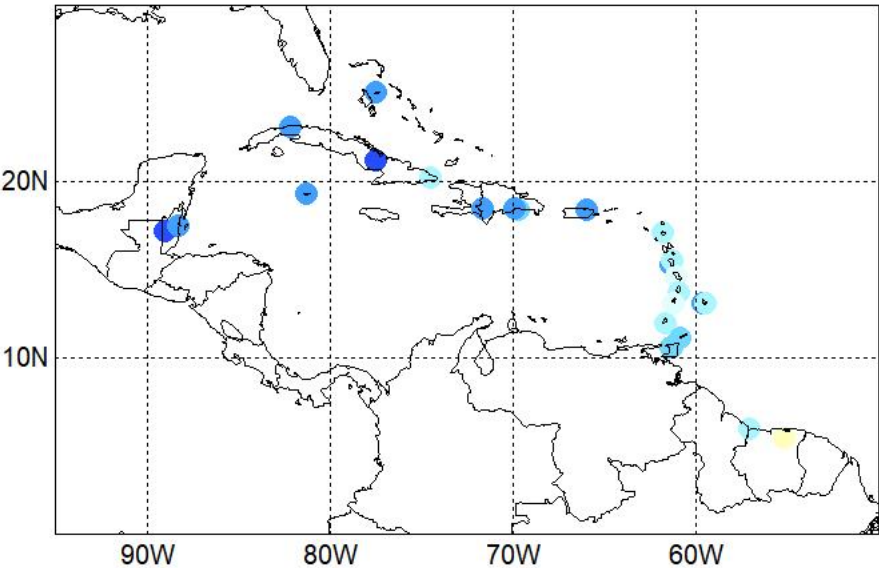
Avg. # of heatwave days in July



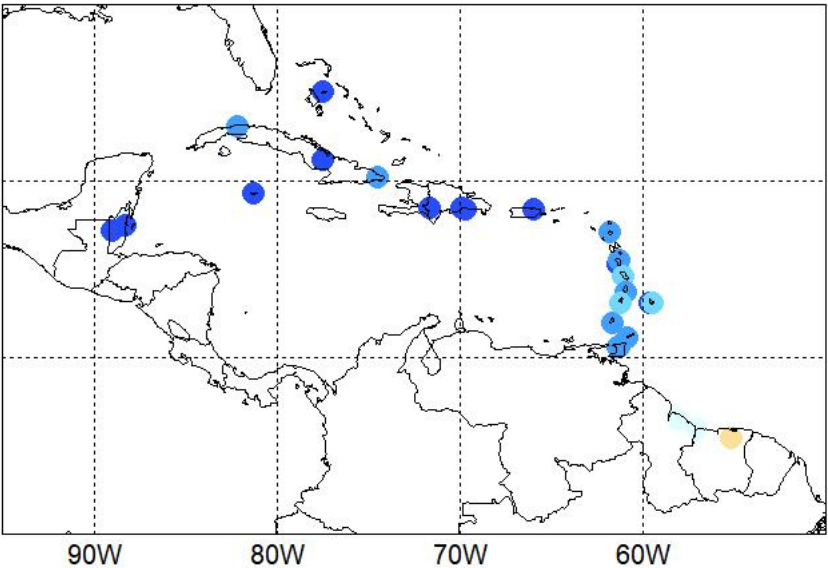
Avg. # heatwave days in August



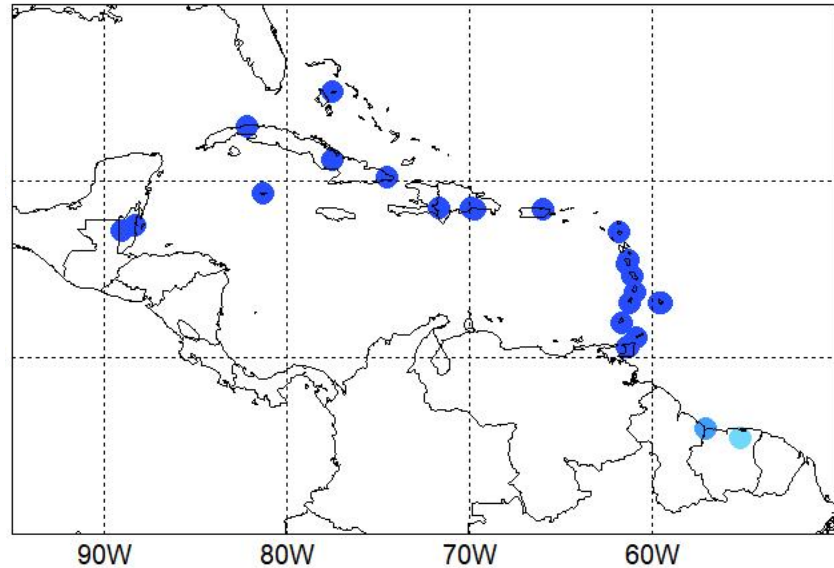
Avg. # heatwave days in September



Avg. # heatwave days in October

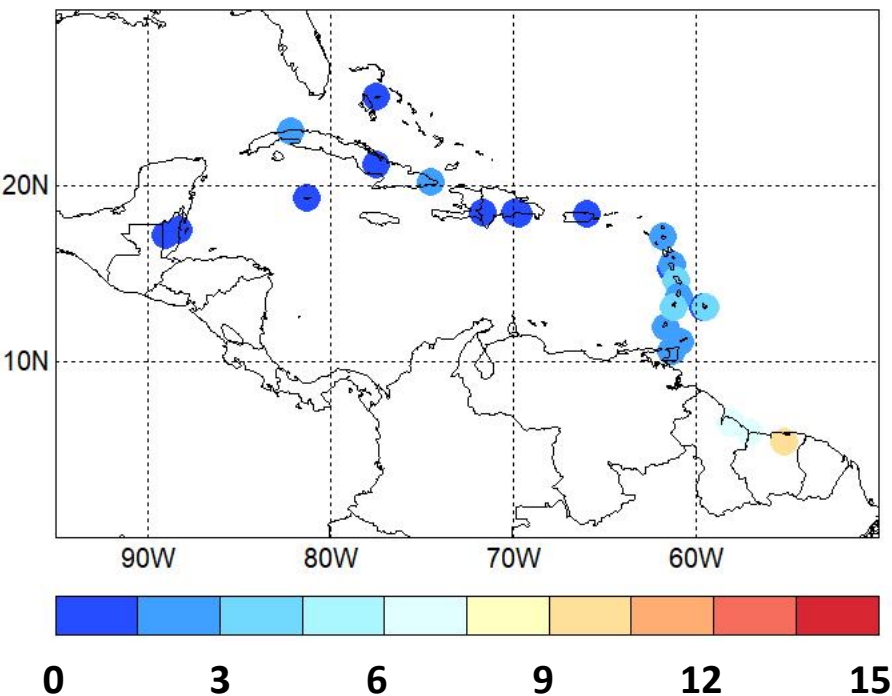


Avg. # heatwave days in November

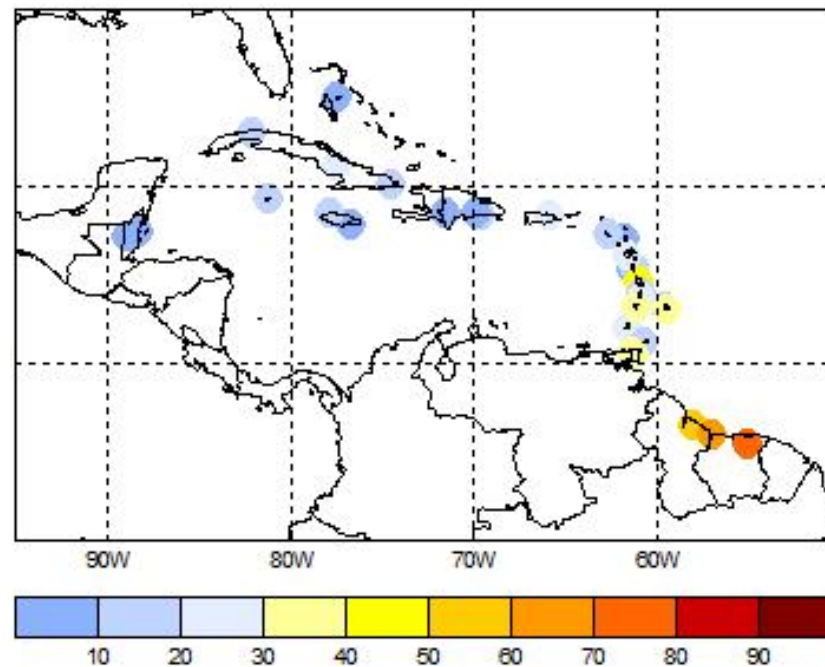


How many heatwave days to expect in October 2020?

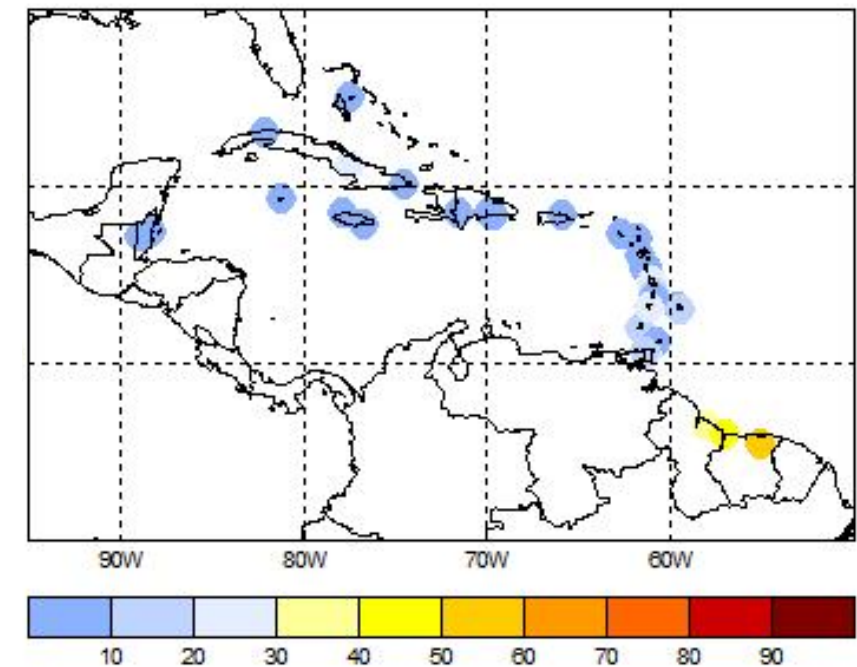
Avg. # heatwave days in October



Prob. at least 3 heatwave days in October 2020



Prob. at least 7 heatwave days in October 2020



USUALLY: up to 3 heatwave days in the Greater Antilles; up to 6 in the Lesser Antilles and up to 10 in the Guianas.

FORECAST: 20-40% chance of 3 or more heatwave days in Barbados, Trinidad & Tobago, and the Windward Is. in Oct. 2020, but >50% chance in the Guianas, where up to 7 heatwave days may occur.

How will heat affect the Caribbean until February 2020?

FORECAST:

1. The **forecast suggests temperatures to be at least as warm as** usual between October and December in Barbados, the Windward Islands, Trinidad and Tobago and the Guianas. As such, it is expected that the heat season will end warmer than usual there, with potentially dangerous heat exposure during heatwaves in October.
2. 20-40% chance of 3 or more heatwave days in Barbados, Trinidad & Tobago, and the Windward Is. in Oct. 2020, but >50% chance in the Guianas, where up to 7 heatwave days may occur. Some locations in the Guianas could record 14 heatwave days or more.

IMPLICATIONS:

- **Heat stress in the vulnerable population & small livestock until late October in the Windward Islands, and until November in the Guianas.**
- **Cooling needs in October will likely be increased compared to the past two years.**
- **Where heatwaves occur, heat stress will further increase in human populations or livestock.**



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