

Heat Outlook for October 2019 to March 2020

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Excessive heat until the end of October in the Guianas and Windward Islands

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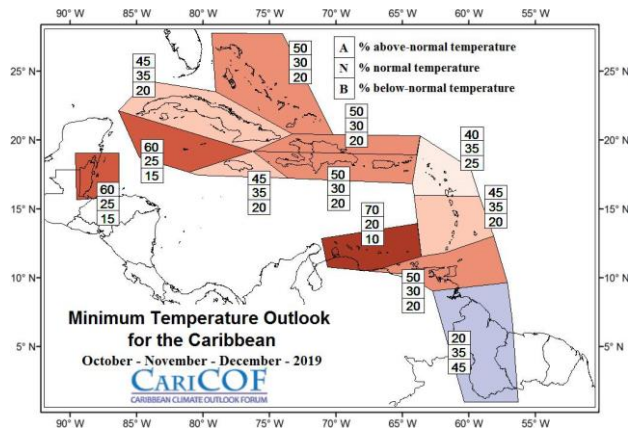
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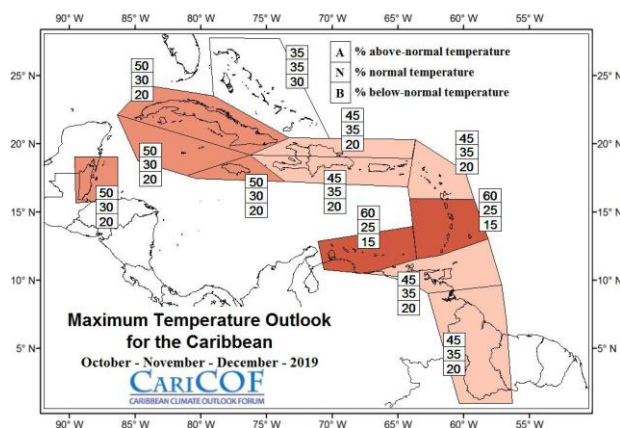
How hot will the next three to six months be?

Oct-Nov-Dec 2019

Night time



Day time



USUALLY:

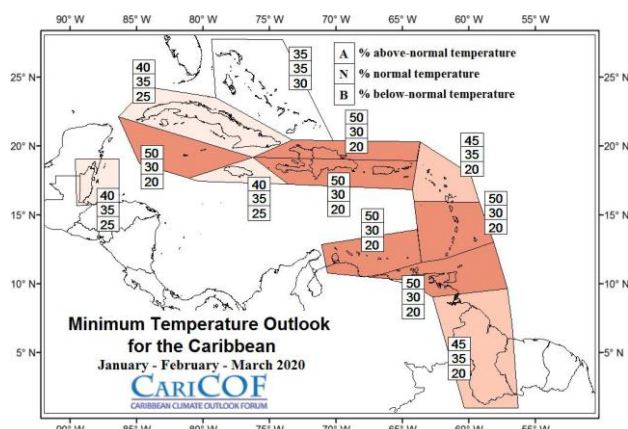
- The **Caribbean heat season** runs from May till October.
- In most years, September is the peak of the heat season with extreme heat also occurring in October as well.
- After October, heat discomfort will rapidly decrease.

FORECAST:

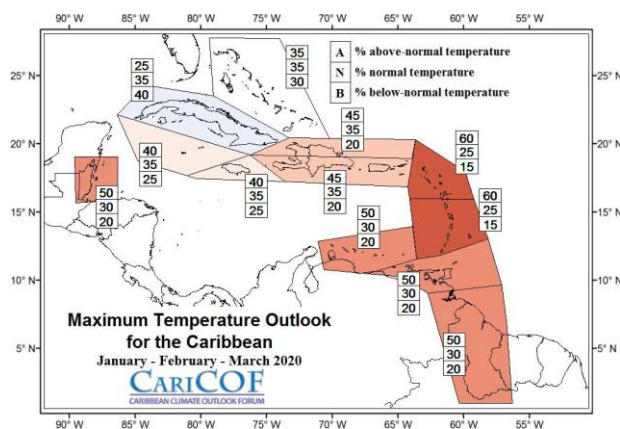
1. The forecast suggests temperatures to be **at least as warm as usual** between October and March, with the possible exception of Guyana at night from October to December.
2. As such, it is expected that the heat season will end warmer than usual, with potentially dangerous heat exposure during dry spells in October in the Guianas and Windward Islands.

Jan-Feb-Mar 2020

← Milder Usual Hotter →

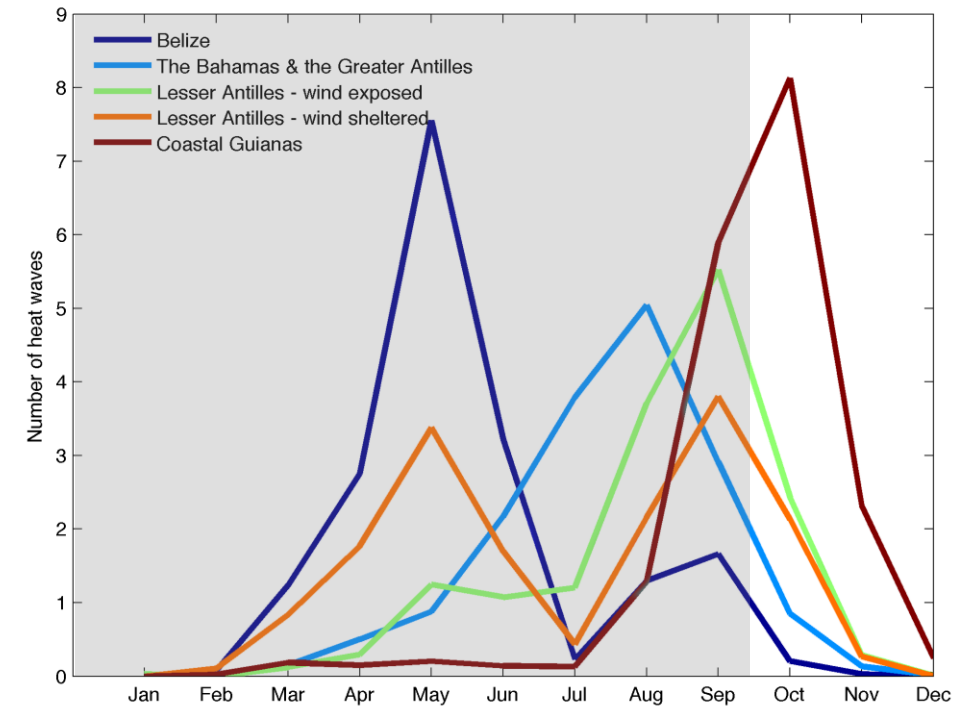
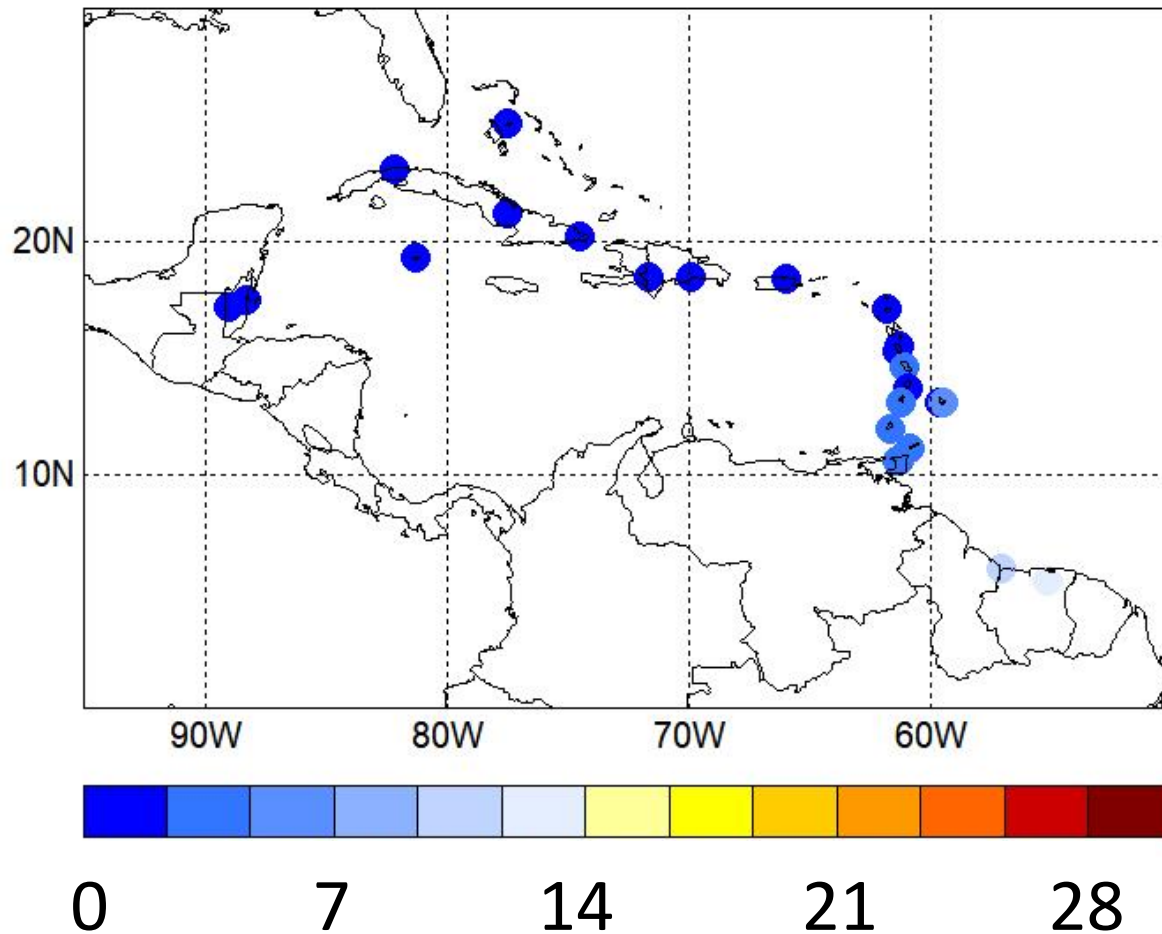


← Milder Usual Hotter →



How many heatwave days do we historically get on average?

From October to December

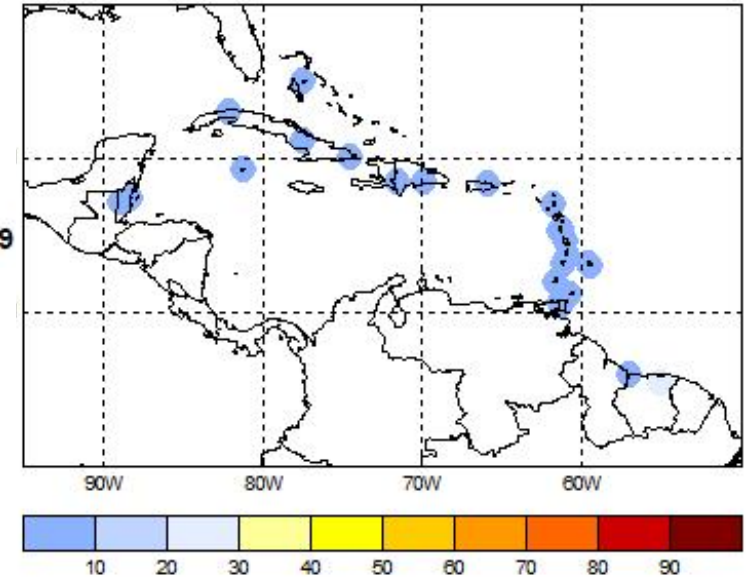


USUALLY:

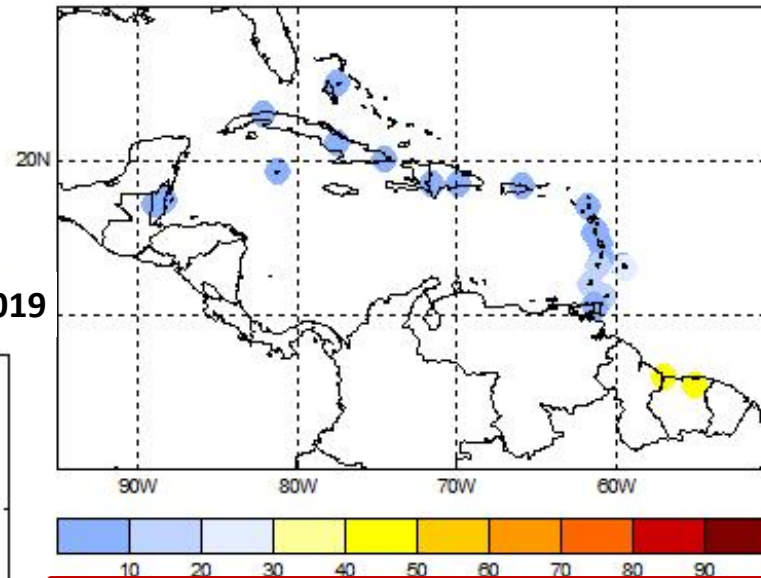
- In most years, up to 7 **heatwave days** are **counted from October to December** in Barbados and the Windward Isls., and 10-14 in the Guianas, mostly in October.
- October is the last month of the Heat Season in Belize and the Islands, but forms the core of the hot, dry season in the Guianas.

What's the chance of having at least ... heatwave days from October to December 2019?

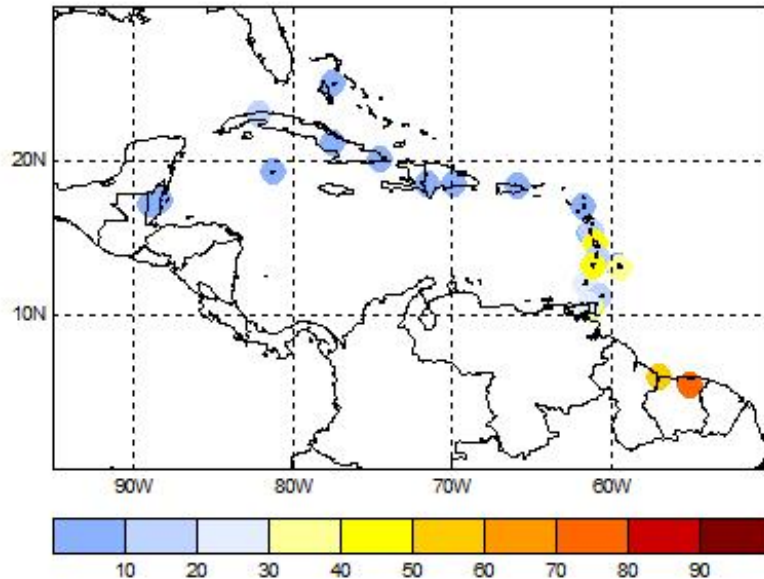
Prob at least 30 heatwave days between Oct & Dec 2019



Prob at least 14 heatwave days between Oct & Dec 2019



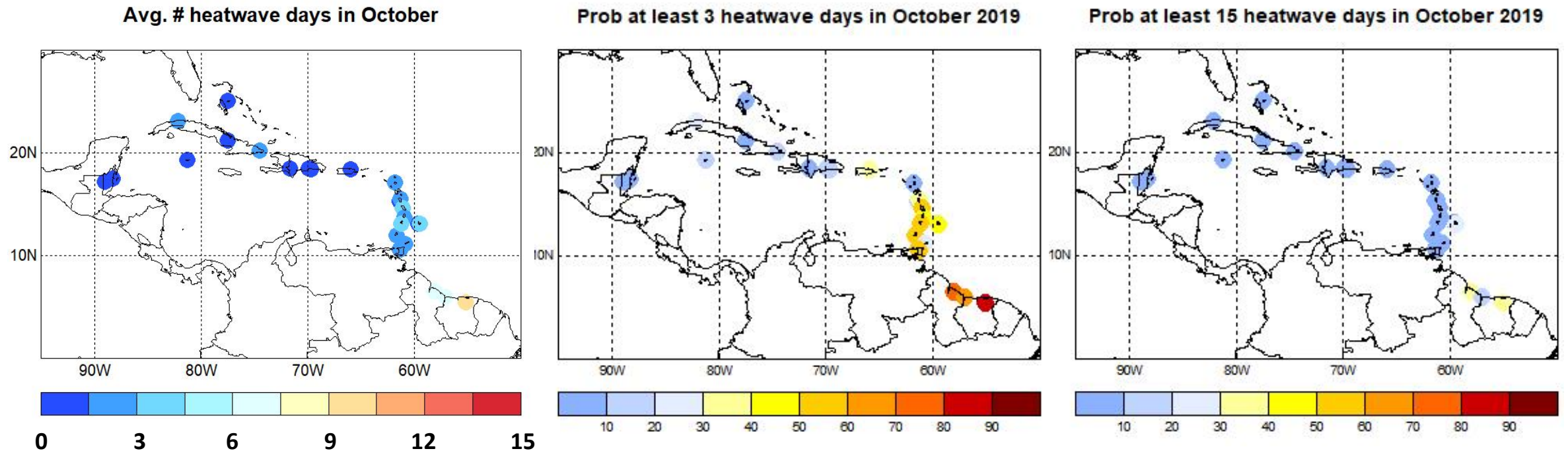
Prob. at least 7 heatwave days between Oct & Dec 2019



FORECAST:

- At least 50% chance for **at least 7 heatwave days** from October to December 2019 in the Guianas, and up to 50% in the Windwards, especially in areas currently in drought.
- Some locations in the Guianas could record 14 heatwave days or more, mostly during multi-day dry spells, and particularly in

How many heatwave days to expect in October 2019?



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: 40-60% chance of 3 or more heatwave days in Puerto Rico and the Windwards in October this year, but over 70% chance in the Guianas, where up to 15 heatwave days could 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 March, with the possible exception of Guyana at night from October to November.
2. As such, it is expected that the heat season will end warmer than usual, with potentially dangerous heat exposure during dry spells in October in the Guianas and Windward Islands.
3. At least 50% chance for **at least 7 heatwave days** from October to December 2019 in the Guianas, and up to 50% in the Windwards, especially in areas currently in drought. Some locations in the Guianas could record 14 heatwave days or more.
4. 40-60% chance of 3 or more heatwave days in Puerto Rico and the Windwards in October this year, but over 70% chance in the Guianas, where up to 15 heatwave days could occur.

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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