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# Heat Outlook for September 2019 to February 2020

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## Excessive heat between September and November

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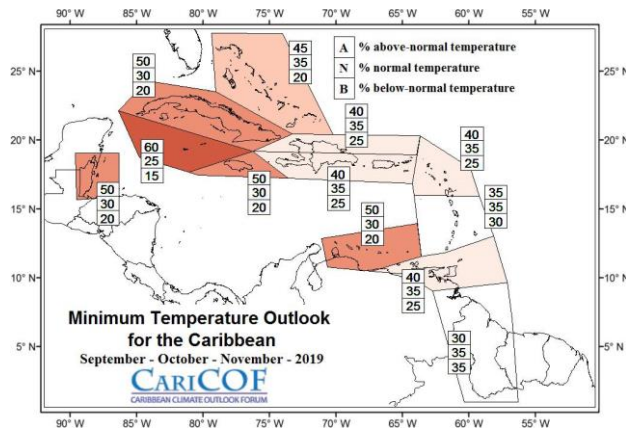
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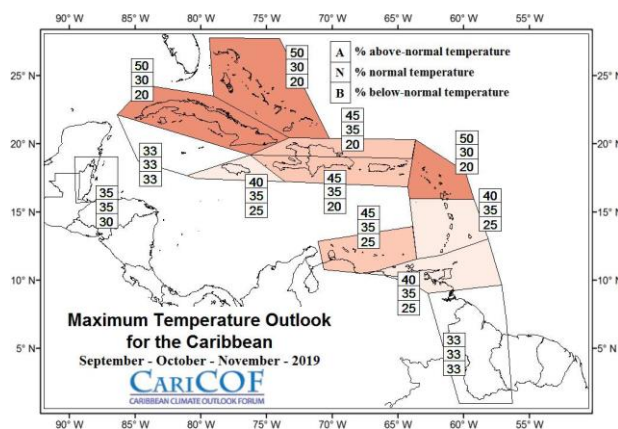
# How hot will the next three to six months be?

Sep-Oct-Nov 2019

## Night time

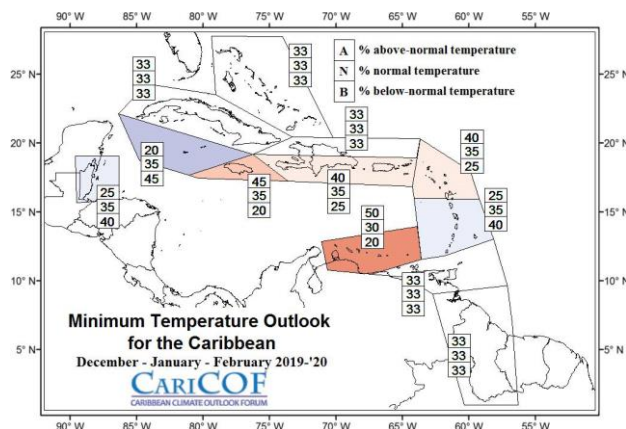


## Day time

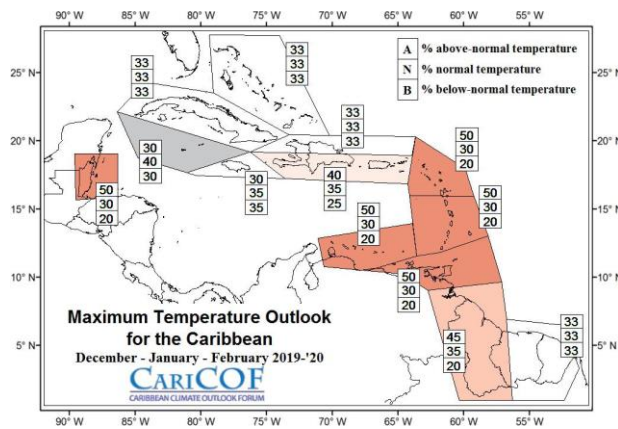


Dec-Jan-Feb 2019-20

Milder Usual Hotter



Milder Usual Hotter



## USUALLY:

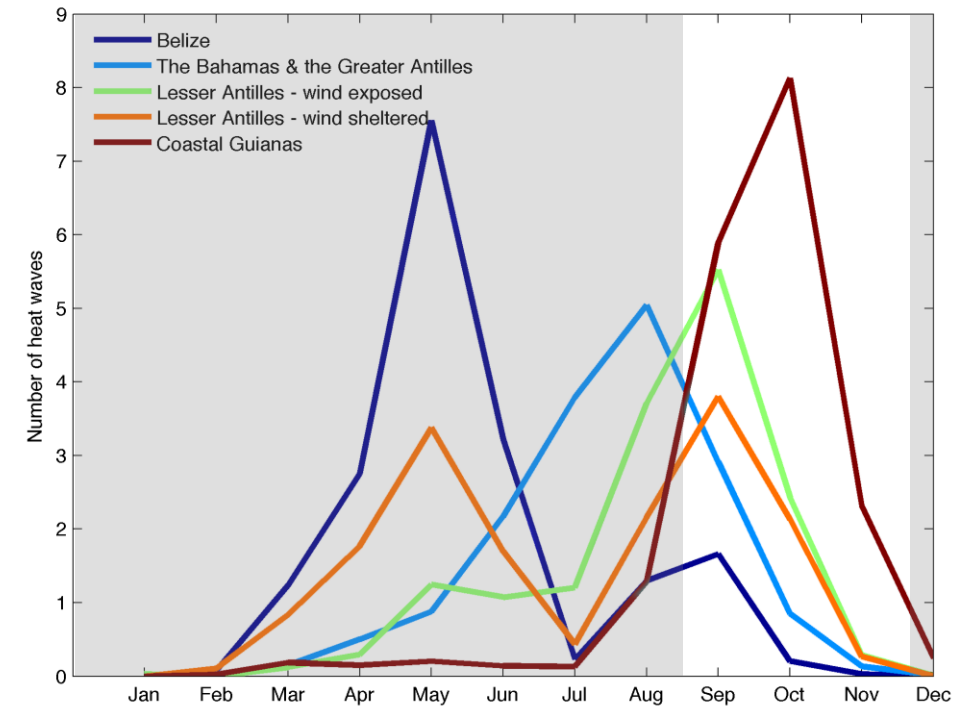
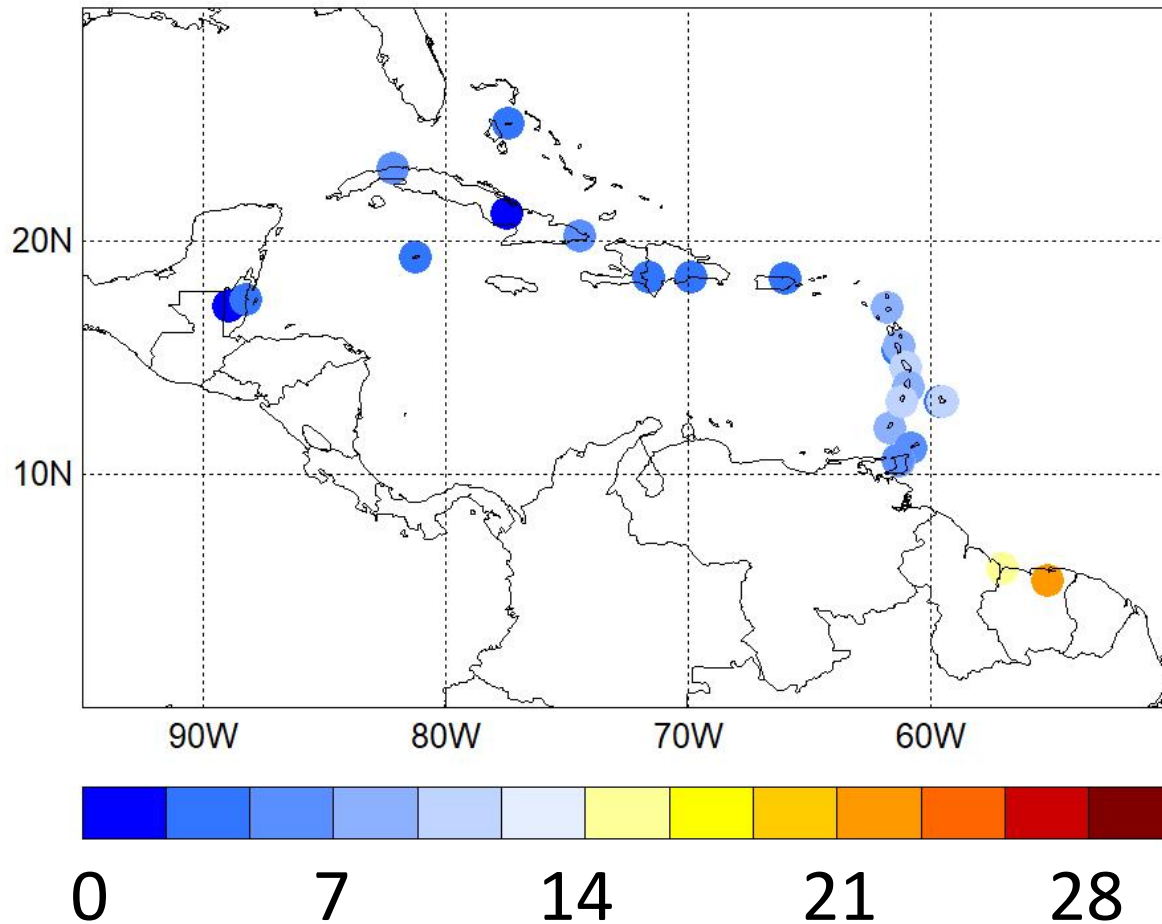
- The **Caribbean heat season** runs from May till October.
- In most years, **September** is the peak of the heat season with extreme heat also occurring in October as well.

## FORECAST:

1. The forecast suggests temperatures to be at least as warm as usual between September and February.
2. As such, it is expected that the heat season will be warmer than usual, with potentially dangerous heat exposure during dry spells between September and October.

# How many heatwave days do we historically get on average?

From September to November

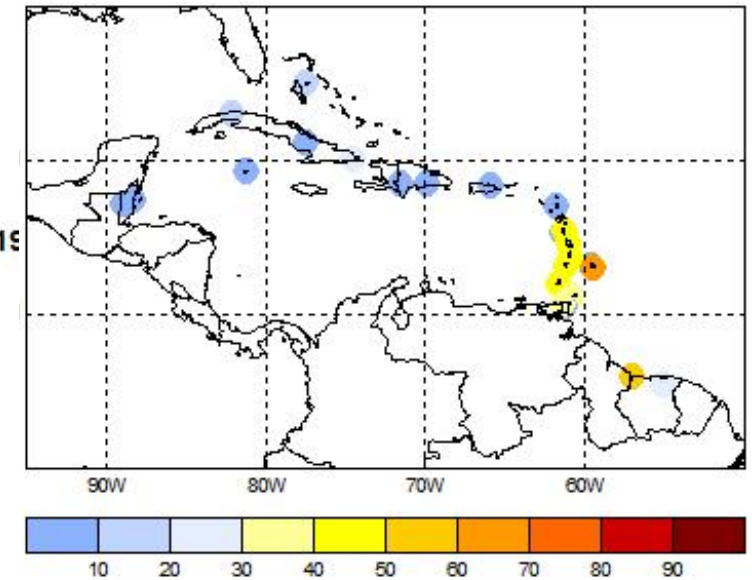


## USUALLY:

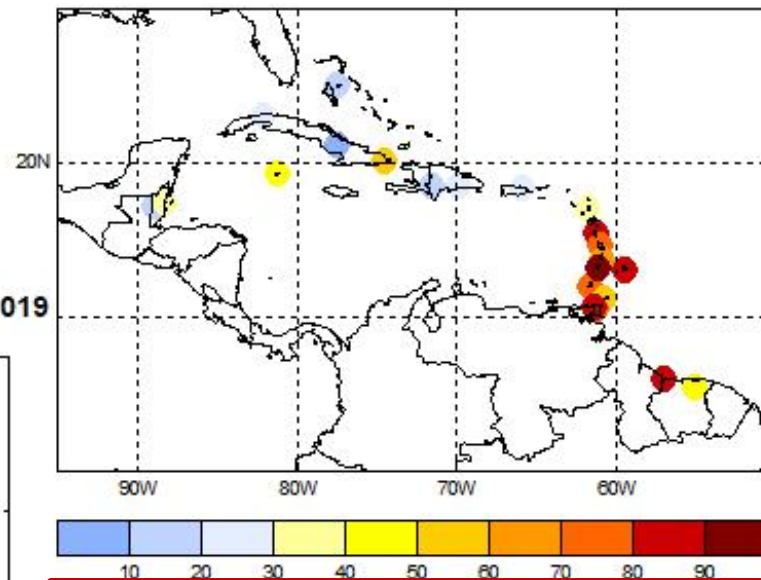
- In most years, up to 7 **heatwave days** are **counted from September to November** in the Bahamas, Belize, and the Greater Antilles, 7-14 in the Lesser Antilles and 14-21 in the Guianas.
- Sept. is the month in which all stations can record heatwaves, i.e. the peak of the Heat Season (which runs from May to October).

# What's the chance of having at least ... heatwave days from September to November 2019?

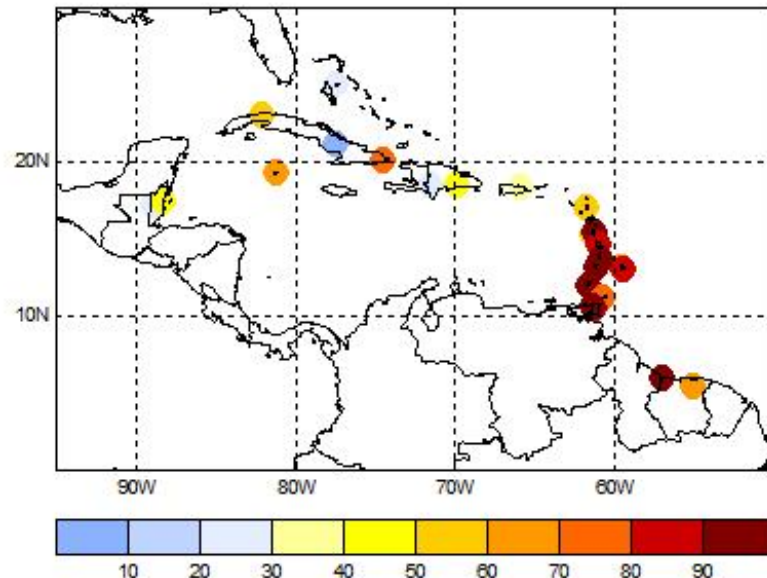
Prob at least 30 heatwave days between Sep & Nov 2019



Prob. at least 14 heatwave days between Sep & Nov 2019



Prob. at least 7 heatwave days between Sep & Nov 2019

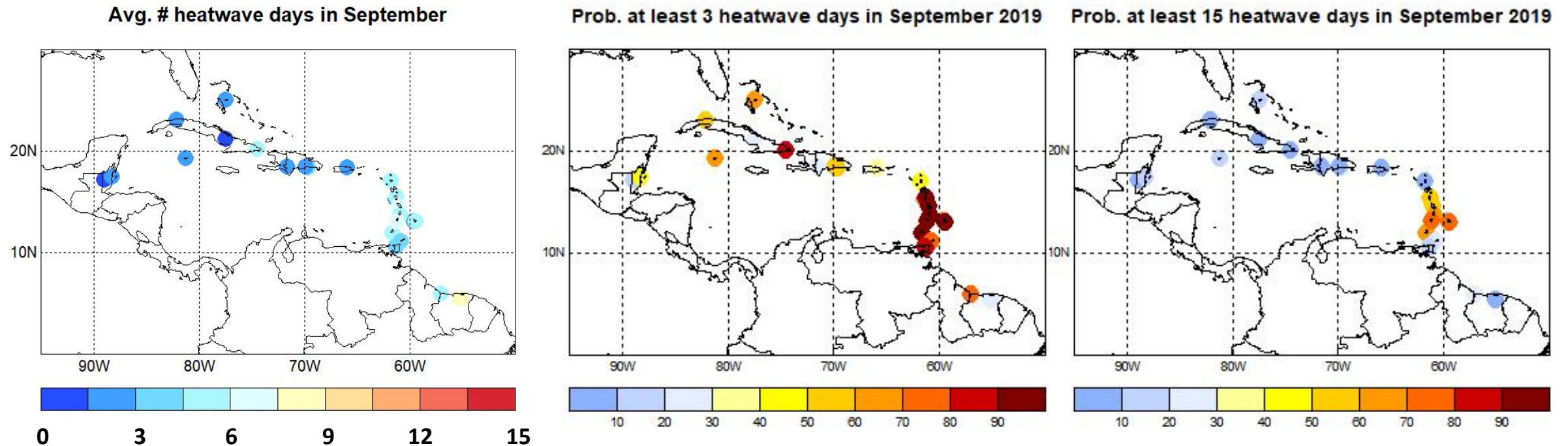


## FORECAST:

- At least 50% chance for **at least 14 heatwave days** from September to November 2019 across most locations in the Lesser Antilles and Guianas, as well as, in areas in drought.
- Some locations in the Guianas and the Lesser Antilles could record 30 heatwave days or more, mostly during multi-day dry



# How many heatwave days to expect in September 2019?



**USUALLY:** up to 3 heatwave days in the Bahamas, Belize & Greater Antilles; 6 to 9 elsewhere.  
**FORECAST:** at least 40% chance of 3 or more heatwave days in any location in September this year, with over 50% chance of 15 or more heatwave days in much of Barbados and the Windwards.

# How will heat affect the Caribbean until February 2020?

## **FORECAST:**

1. The **forecast suggests temperatures to be at least as warm as usual** between September and November 2019, with temperatures becoming comfortable from November onwards.
2. The last two months of the heat season will likely be warmer than in the past two years, with potentially dangerous heat exposure during heatwaves up until the end of October.
3. At least 50% chance for at least 14 heatwave days from September to November 2019 across most locations in the Lesser Antilles and Guianas, as well as, in areas in drought. Some locations in the Guianas and the Lesser Antilles could record 30 heatwave days or more.
4. Most locations to see 3 or more heatwave days in September this year and over 50% chance that locations in Barbados and the Windwards can experience 15 or more heatwave days.

## **IMPLICATIONS:**

- **Heat stress in the vulnerable population & small livestock until October (or November in the Guianas), and likely to a greater extent than in the past two years.**
- **By consequence, cooling needs until October will be substantially increased.**
- **The occurrence of heatwaves will further increase heat stress in human populations or livestock.**



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