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# Heat Outlook for September 2018 to February 2019

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## Heat more bearably than in most recent years

Dr. Cedric J. VAN MEERBEECK<sup>1</sup> ([cmeerbeeck@cimh.edu.bb](mailto:cmeerbeeck@cimh.edu.bb)), Dr. Simon MASON<sup>2</sup>, Dr. Hannah Nissan<sup>2</sup>, Dr. Teddy ALLEN<sup>2</sup>, Wazita Scott<sup>1</sup>

<sup>1</sup>Caribbean Institute for Meteorology and Hydrology (CIMH), Barbados

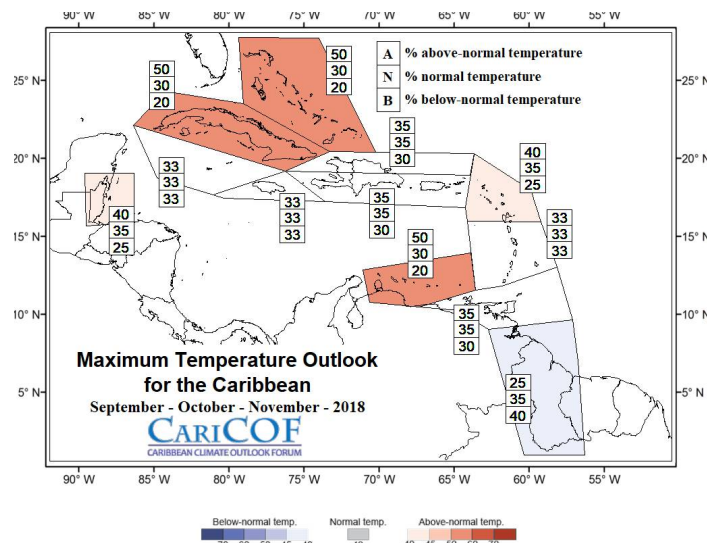
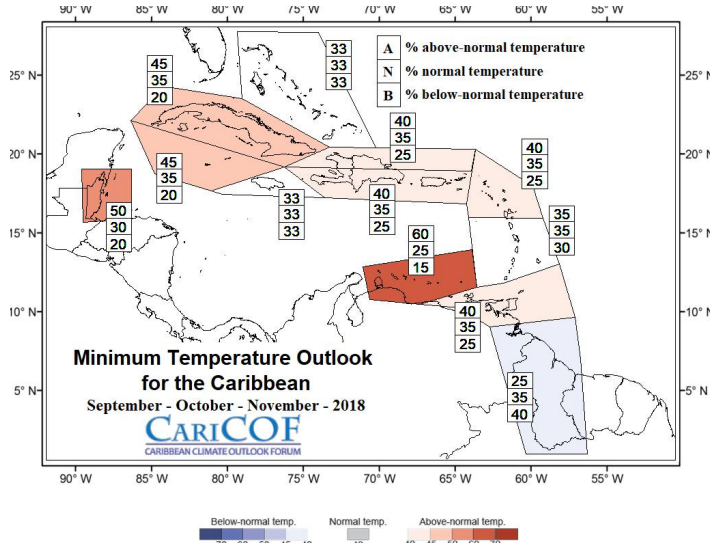
<sup>2</sup>International Research Institute for Climate and Society (IRI), USA



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

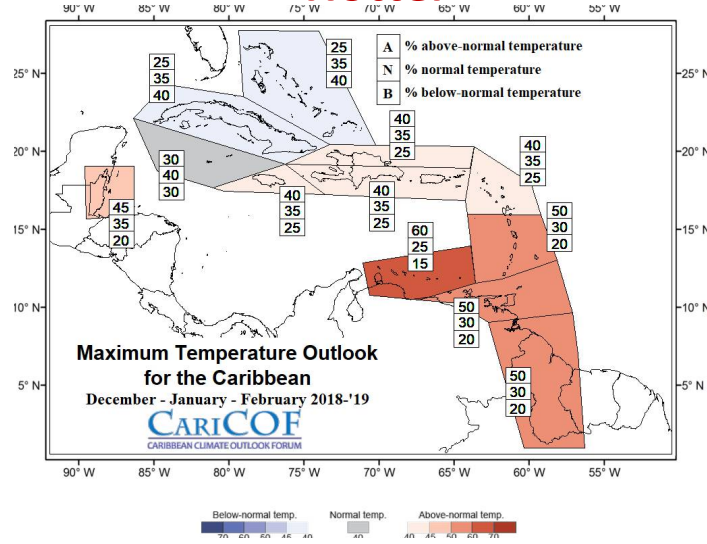
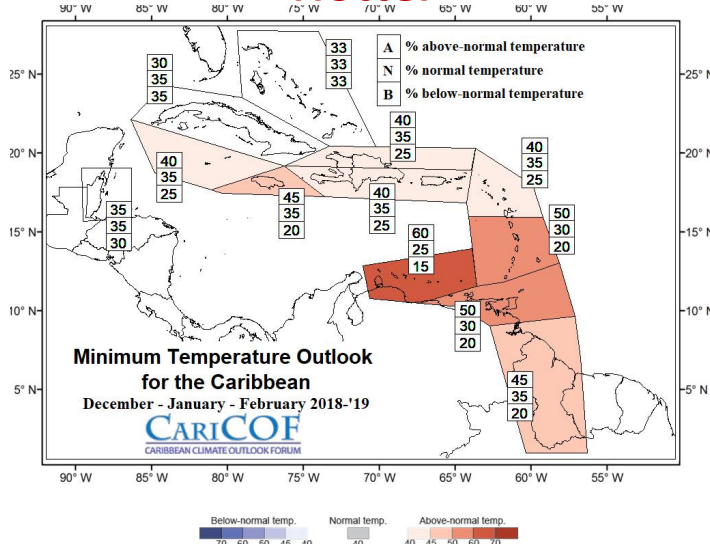
## Night time

## Day time



Milder Usual  
**Hotter**

Milder Usual  
**Hotter**



### USUALLY:

- The **hotter** part of the year ends in October in Belize and the islands, in November in the Guianas.
- Temperatures comfortable from December to February throughout the region.

### FORECAST:

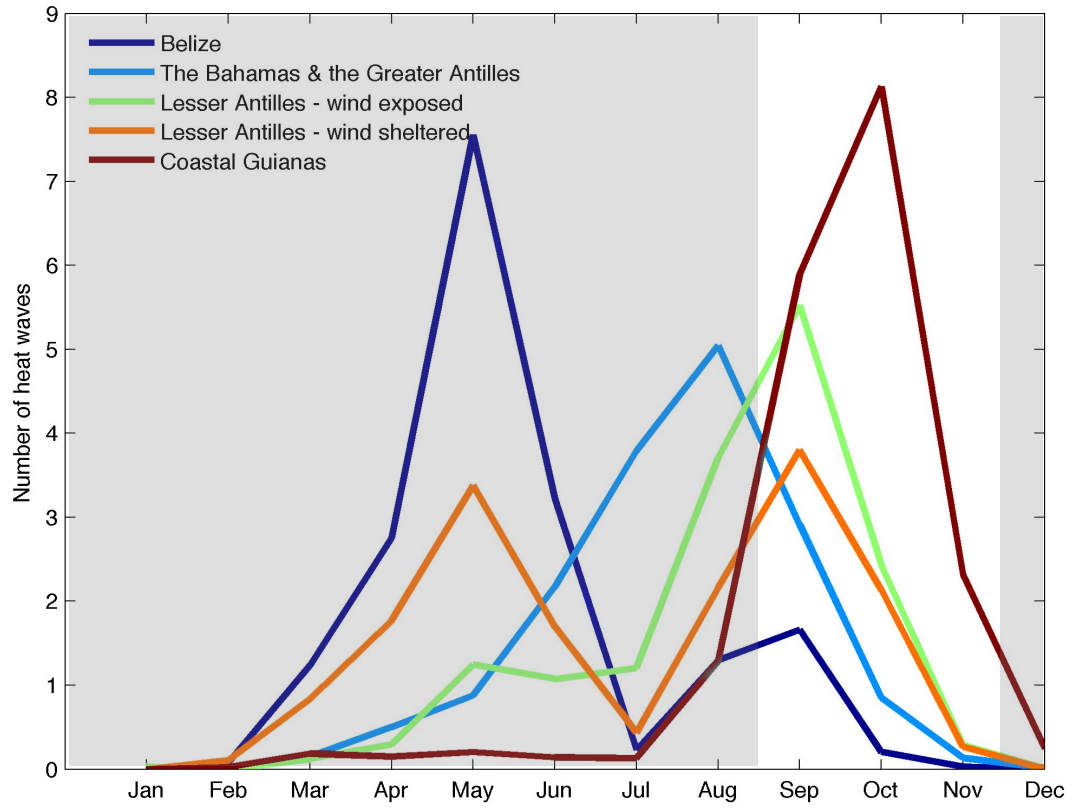
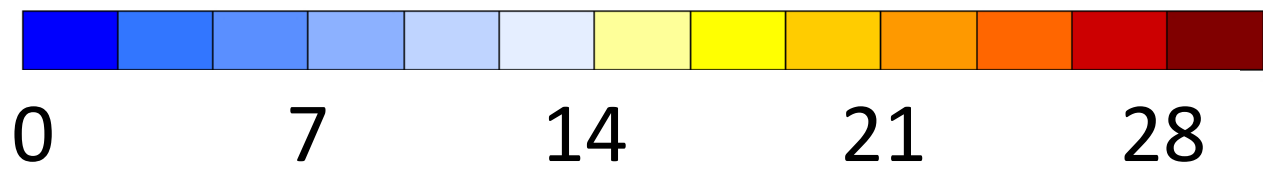
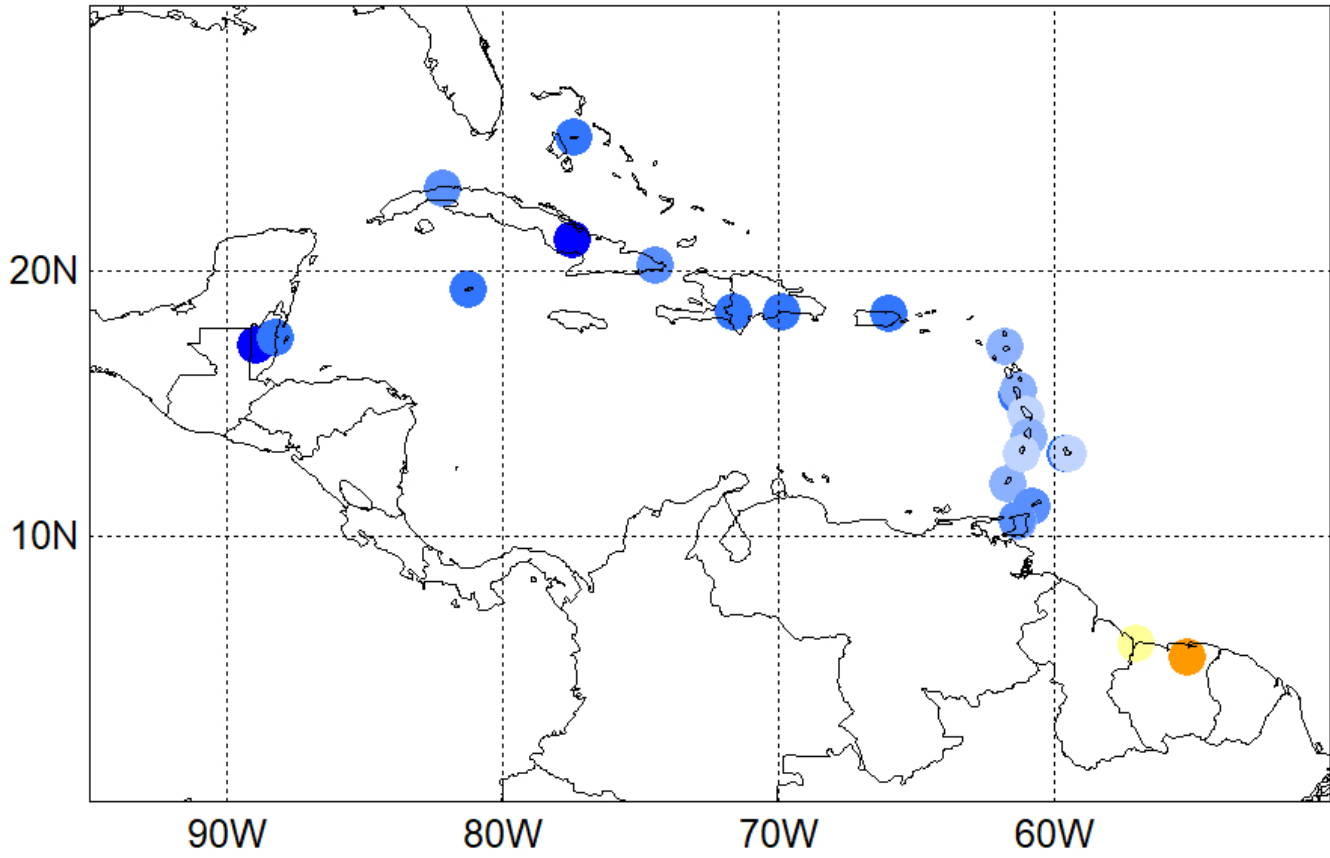
1. For the first time since a number of years, the **forecast suggests temperatures may not be significantly warmer** than usual between September and November.
2. That said, some areas may still experience warmer than usual temperatures, associated with generally drier conditions than usual, and, in the northwestern parts of the Caribbean, due to above-average ocean temperatures.

Sep-Oct-Nov 2018

Dec-Jan-Feb 2018-'19

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

## From September to November

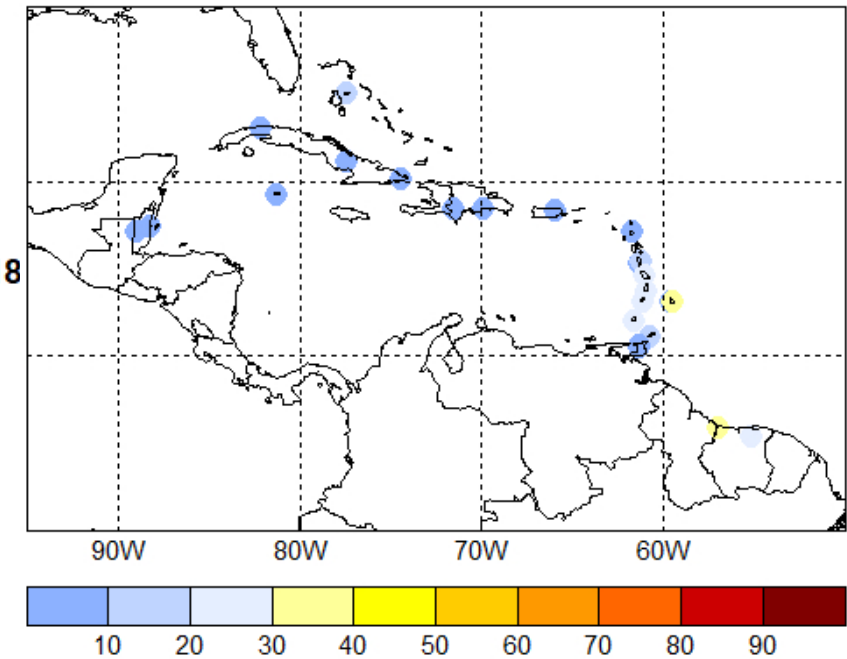


**USUALLY:**

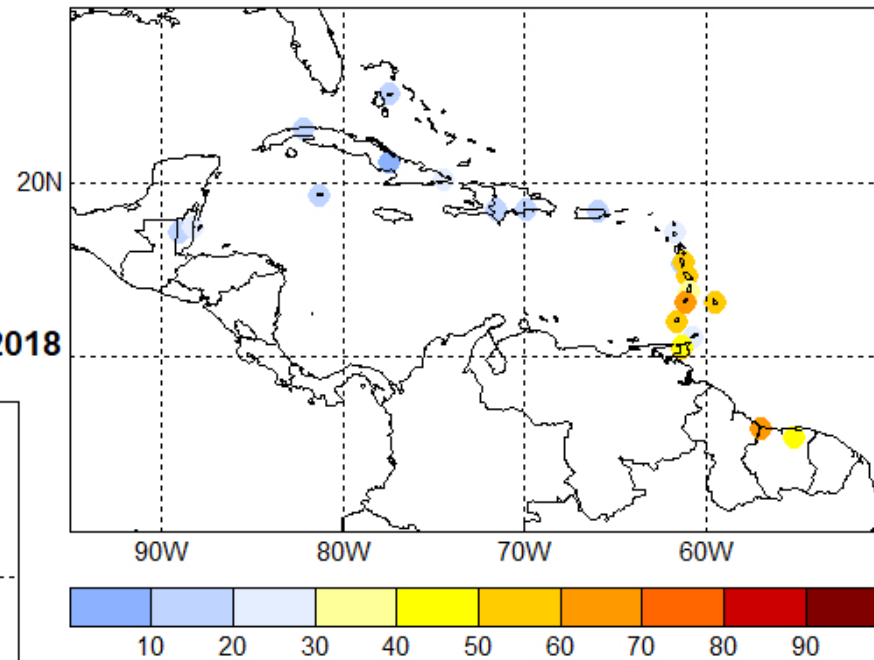
- In most years, up to **7 heatwave days are counted from September to November** in the Bahamas, Belize, and the Greater Antilles, 7-14 in the Lesser Antilles and 14-21 in the Guianas.
- September is the month in which all stations can record heatwaves, i.e. the peak of the hotter season.

# What's the chance of having at least ... heatwave days from September to November 2018?

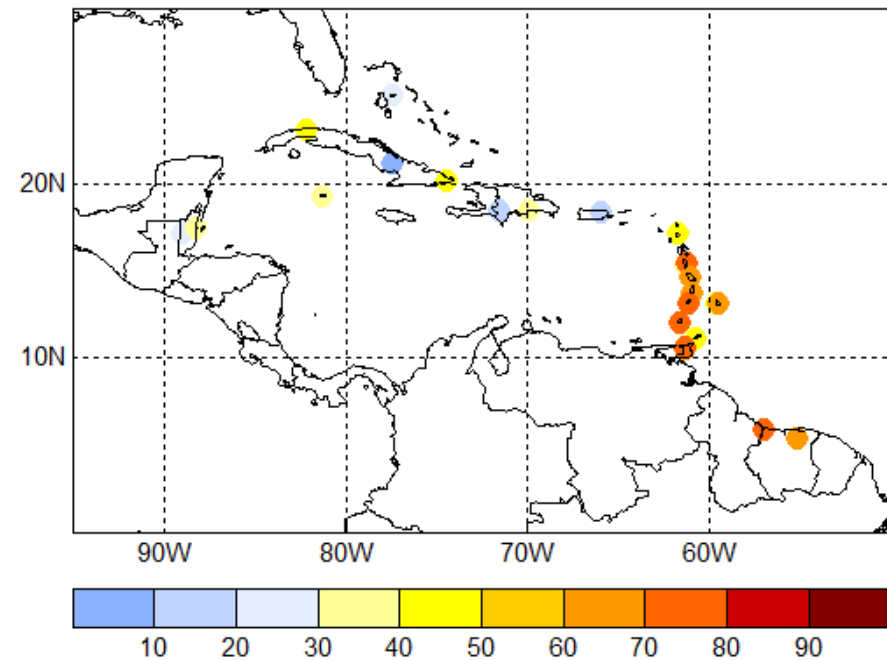
Prob. at least 30 heatwave days between Sep & Nov 2018



Prob. at least 14 heatwave days between Sep & Nov 2018



Prob. at least 7 heatwave days between Sep & Nov 2018



## FORECAST:

- 60-80% chance that there will be **at least 7 heatwave days** from September to November 2018 in the Lesser Antilles from Guadeloupe southwards as well as in the Guianas.
- A few locations in Barbados, the Windwards and the Guianas could record 14 heatwave days.



# How will heat affect the Caribbean from July till September 2018?

## FORECAST:

1. For the first time since a number of years, the forecast suggests temperatures may not be significantly warmer than usual between September and November.
2. That said, some areas may still experience warmer than usual temperatures, associated with generally drier conditions than usual, and, in the northwestern parts of the Caribbean, due to above-average ocean temperatures.
3. **60-80% chance that there will be at least 7 heatwave days from September to November 2018 in the Lesser Antilles from Guadeloupe southwards as well as in the Guianas. A few locations in Barbados, the Windwards and the Guianas could record 14 heatwave days.**

## IMPLICATIONS:

- Some **Heat stress** in the vulnerable population & small livestock until October (or November in the Guianas), but **unlikely to the same extent** as in recent years.
- By consequence, **cooling needs until October are reduced** compared to recent years.
- Nevertheless, the **occurrence of a few heatwaves** in many locations is likely to **temporarily increase heat stress** in human populations or livestock, especially in areas that experience unusually dry conditions.



**CARICOF**  
CARIBBEAN CLIMATE OUTLOOK FORUM

*caricof@cimh.edu.bb*

rcc.cimh.edu.bb

Caribbean Institute for Meteorology and Hydrology

TEL: (246) 425-1362/3 | FAX: (246) 424-4733