

Heat Outlook for August 2021 to January 2022

— Frequent excessive heat from August to October

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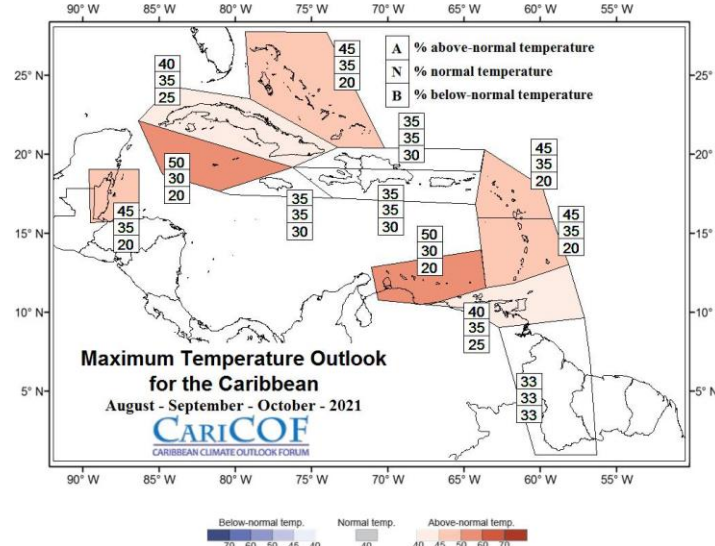
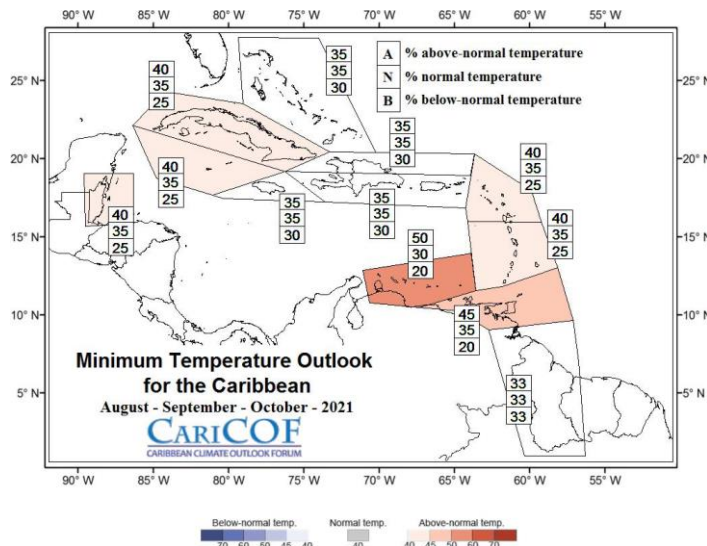
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How hot will the next three to six months be?

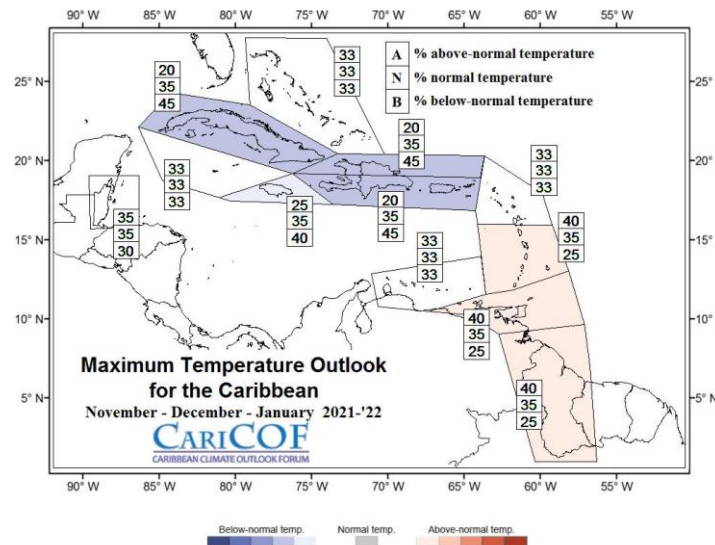
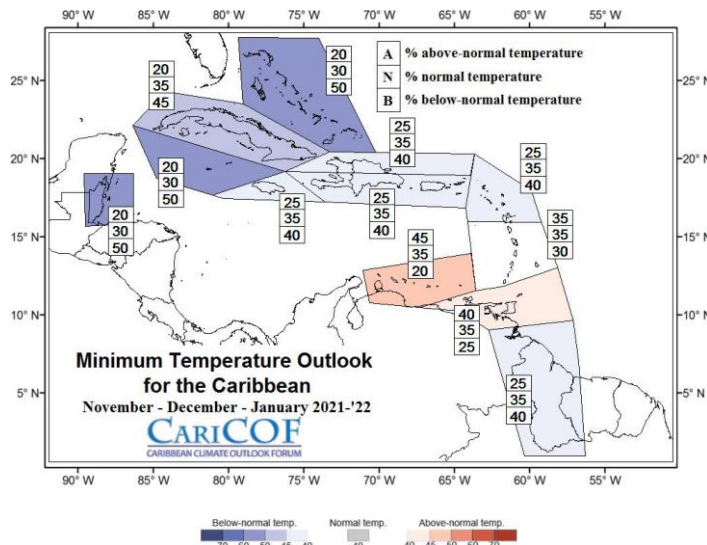
Night time

Day time



Milder Usual Hotter

Milder Usual Hotter



FORECAST:

1. Overall, at least as warm as usual in most areas between August and October 2021, the peak of the Heat Season.
2. Temperatures should quickly cool to become seasonably comfortable in November

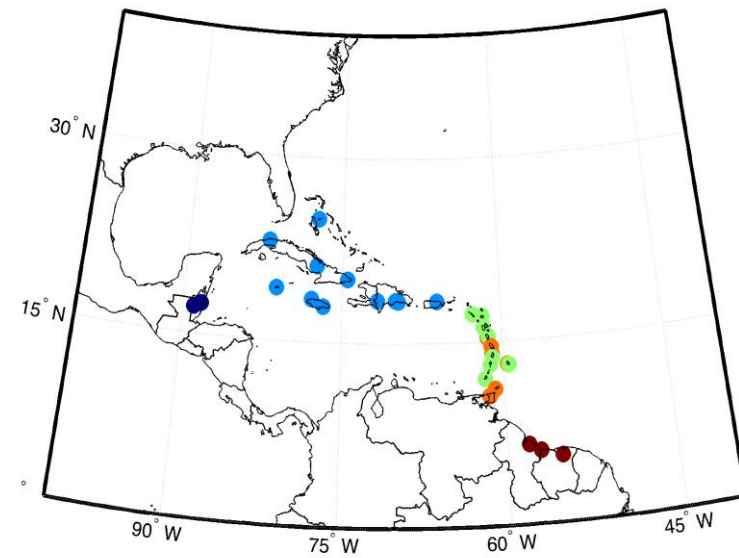
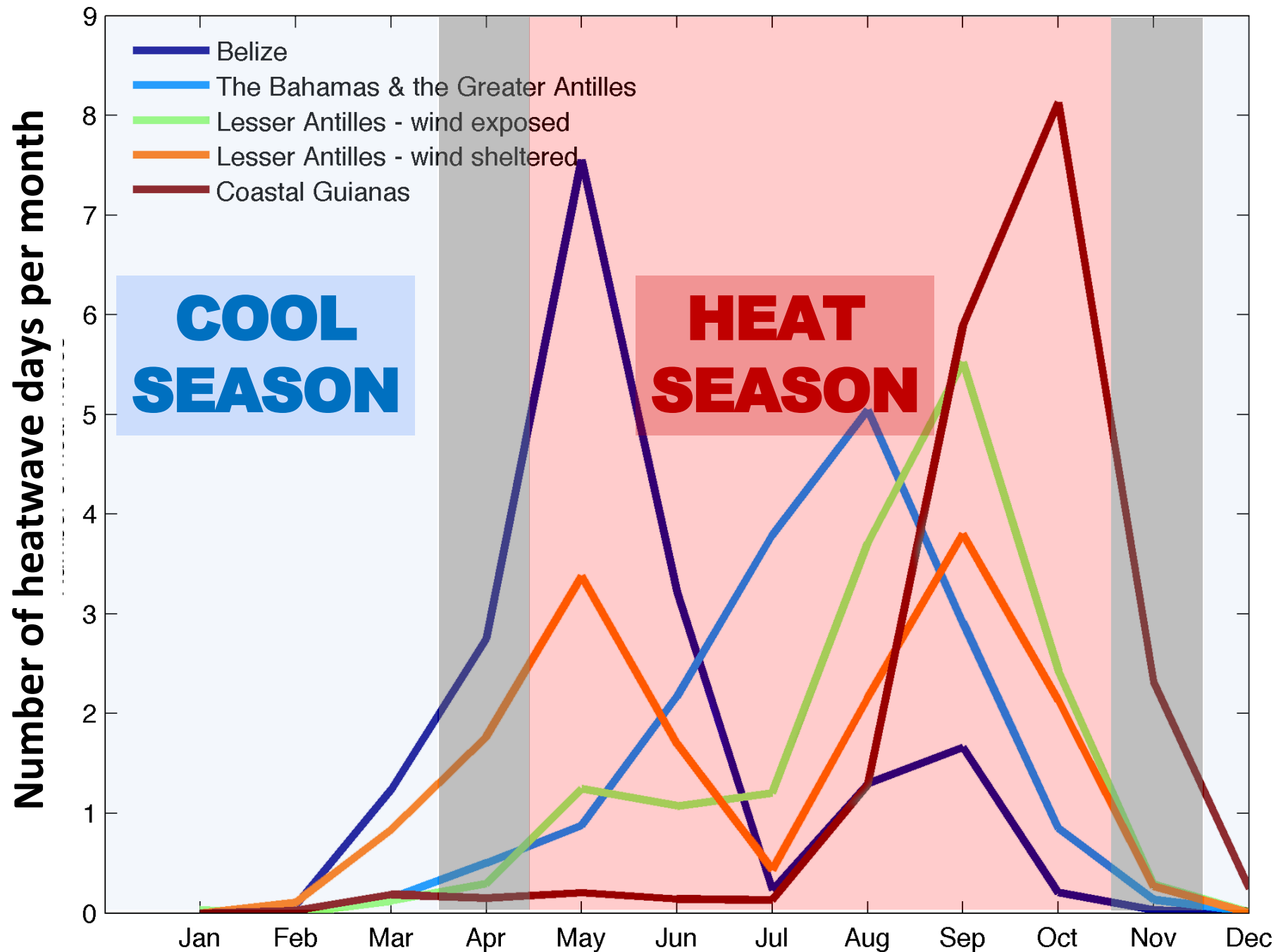
IMPLICATIONS:

- Annual peak in heat stress in the vulnerable population & small livestock through September (Bahamas and Greater Antilles), October (ABC Is. and Lesser Antilles) or November (Guianas).
- Higher than usual temperatures combined with high humidity means higher cooling need until October.

Aug-Sep-Oct 2021

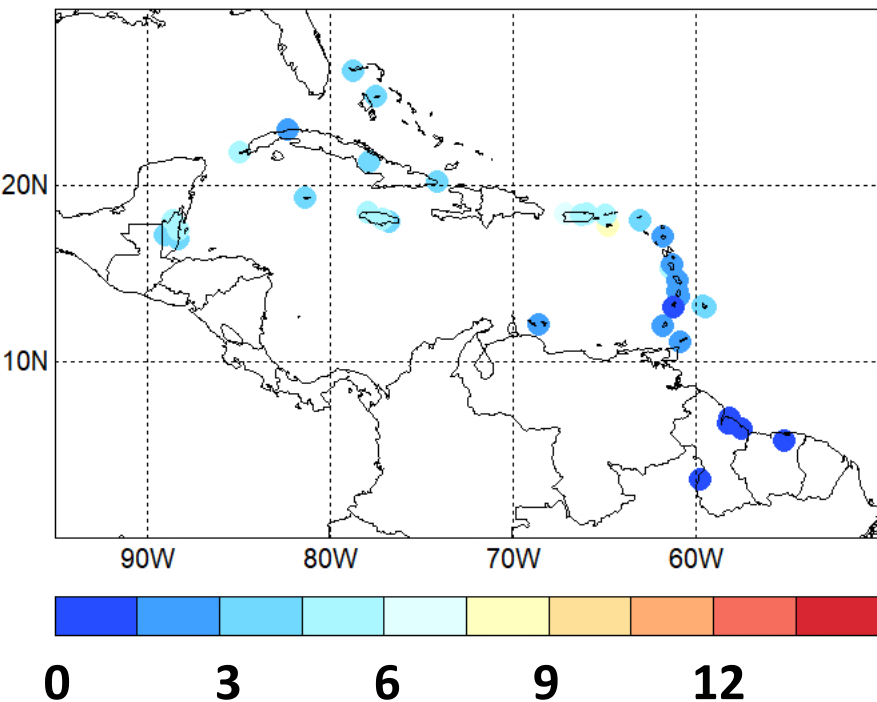
Nov-Dec-Jan 2021-22

The Caribbean Heat Season: April/May to October

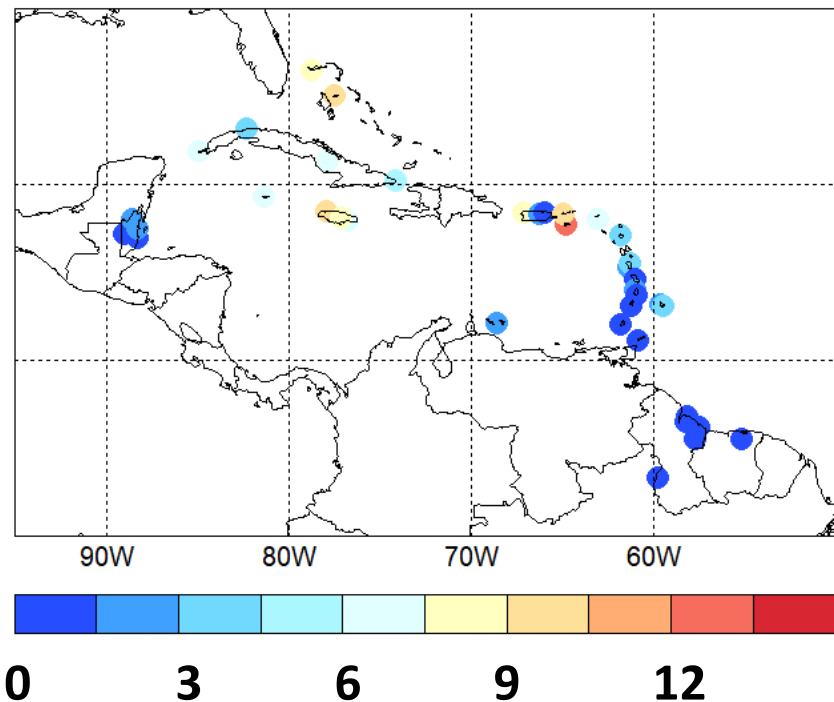


How many heatwave days on average per month?

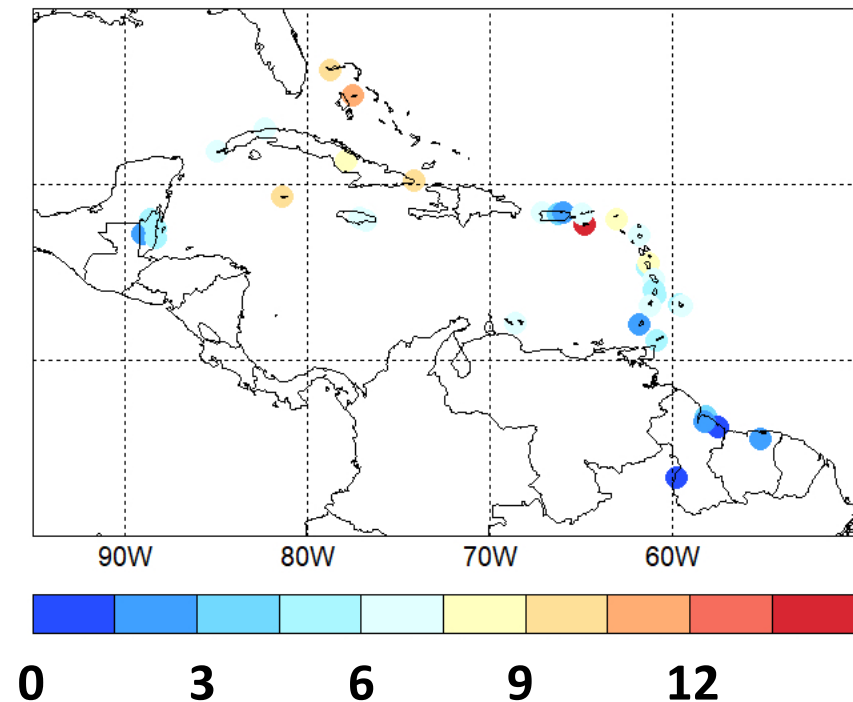
Heatwave days in June (1991-2020 avg.)



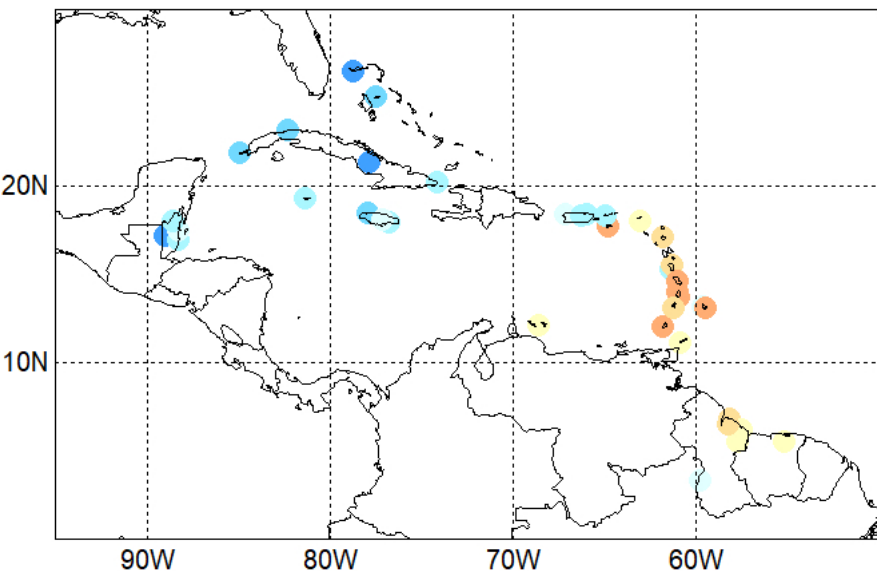
Heatwave days in July (1991-2020 avg.)



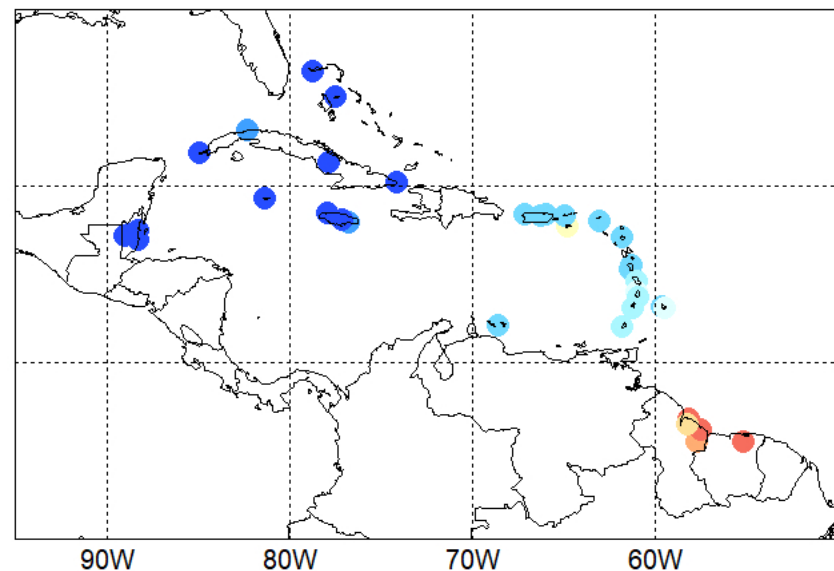
Heatwaves in August (1991-2020 avg.)



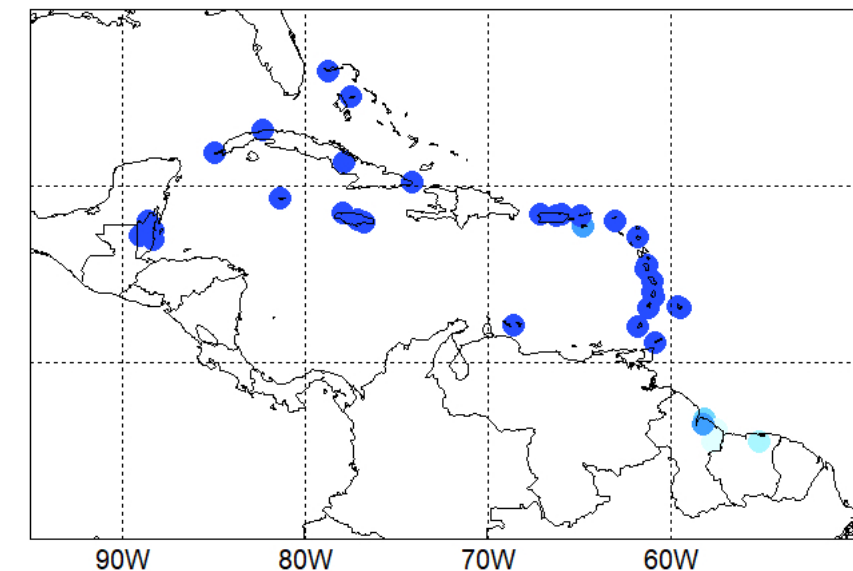
Heatwaves in September (1991-2020 avg.)



Heatwaves in October (1991-2020 avg.)

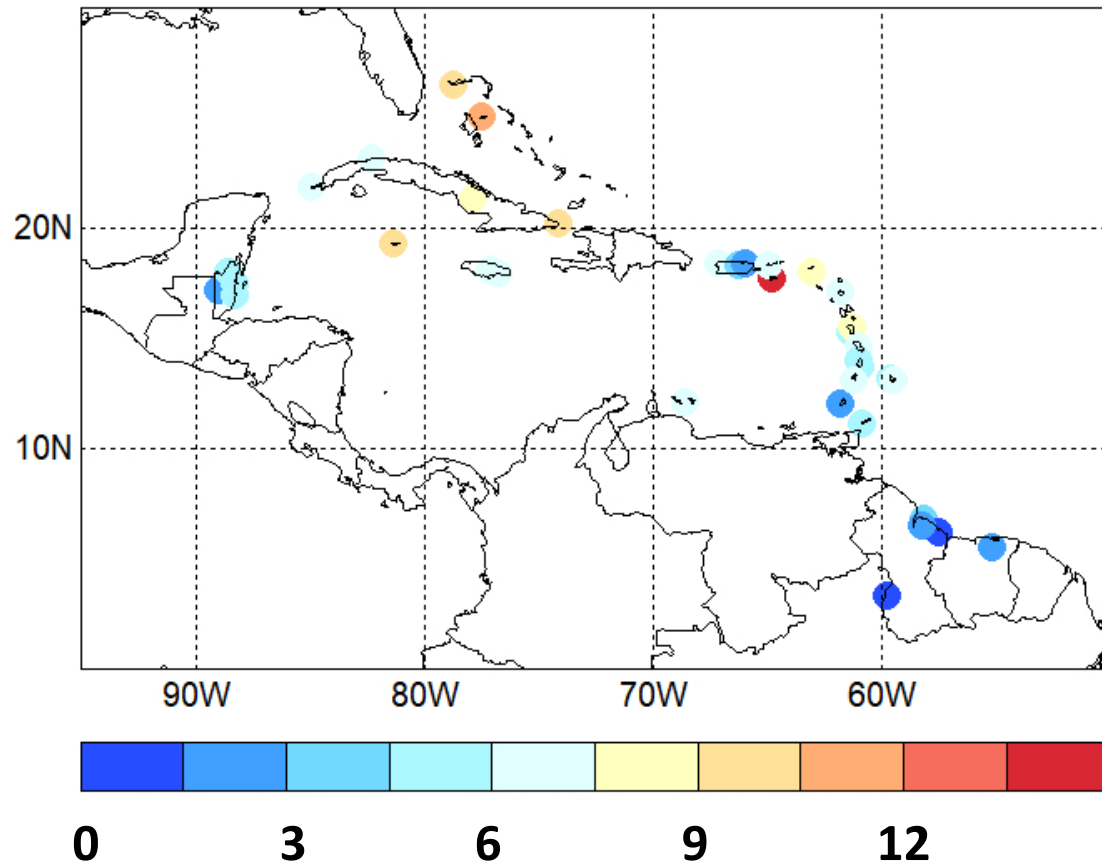


Heatwaves in November (1991-2020 avg.)

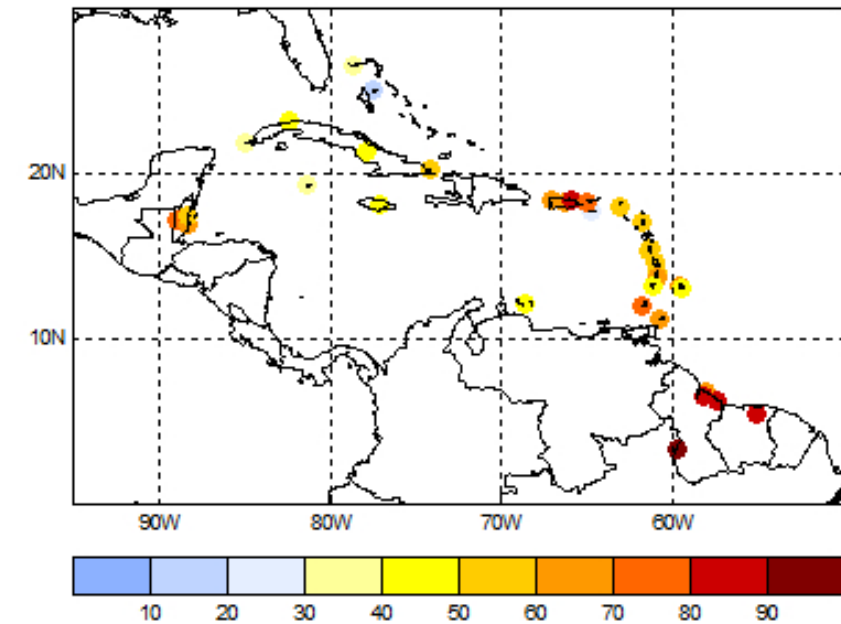


How many heatwave days to expect in August 2021?

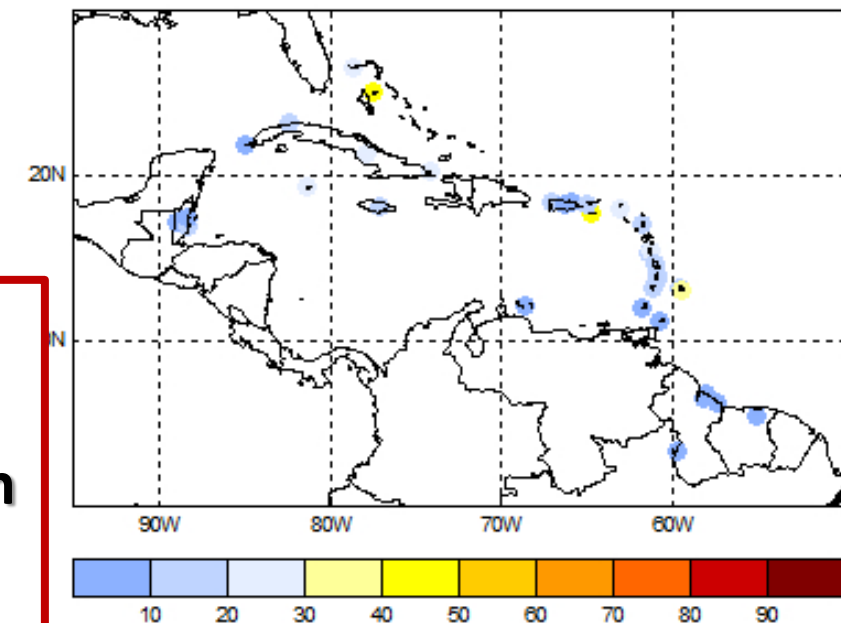
Heatwaves in August (1991-2020 avg.)



Prob. no more than 5 heatwave days in August 2021

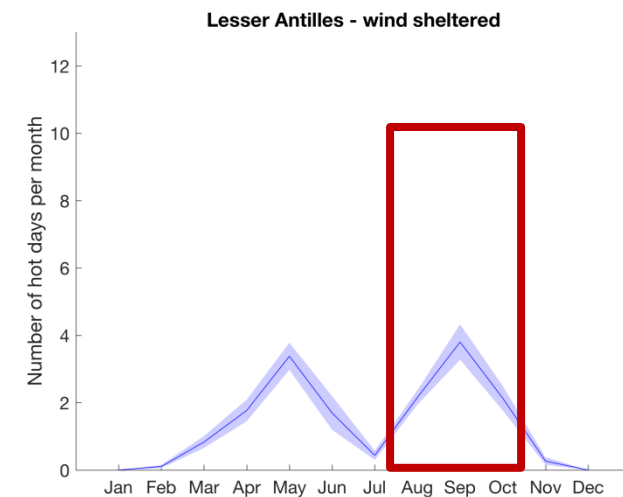
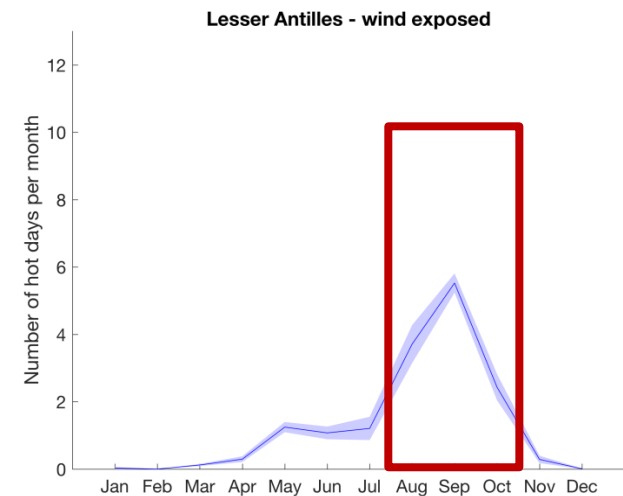


Prob. at least 15 heatwave days in August 2021

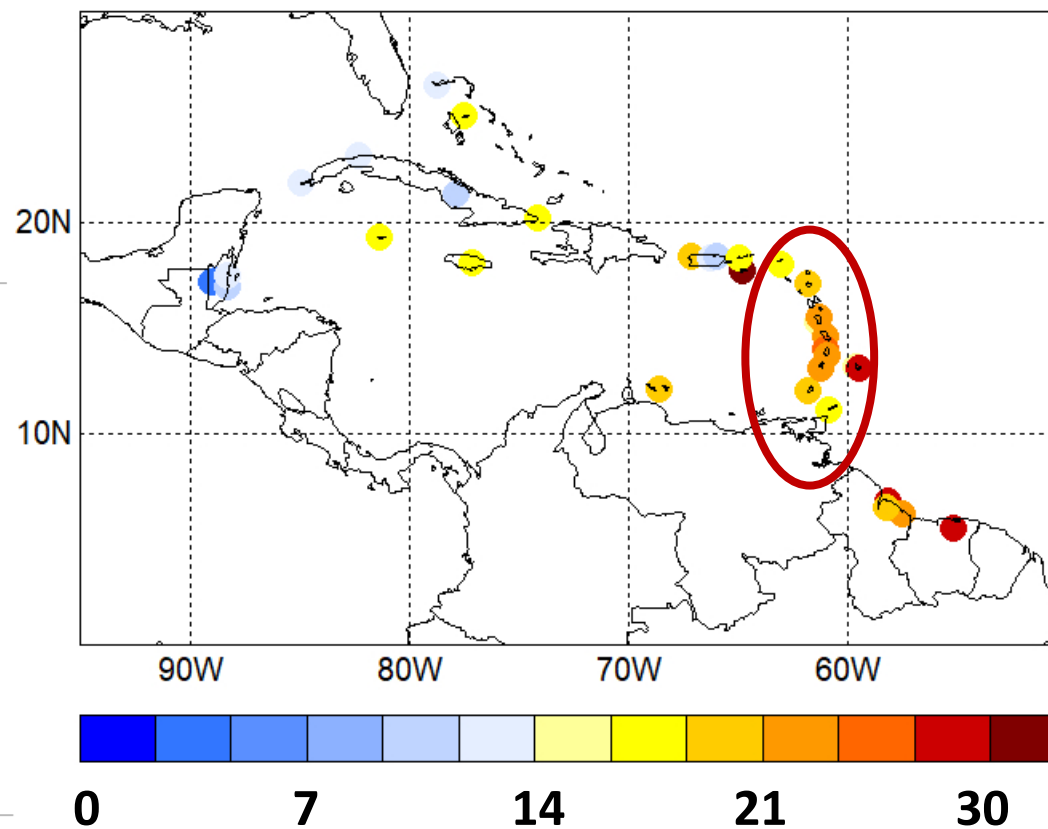


USUALLY: At least 6 heatwave days in August in most islands.
FORECAST: In the Guianas, no more than 5 heatwave days are forecast for August 2021. Other areas are likely to observe between 5 and 15 heatwave days, with the possible exception of The Bahamas, Barbados and St. Croix which might observe 15 or more.

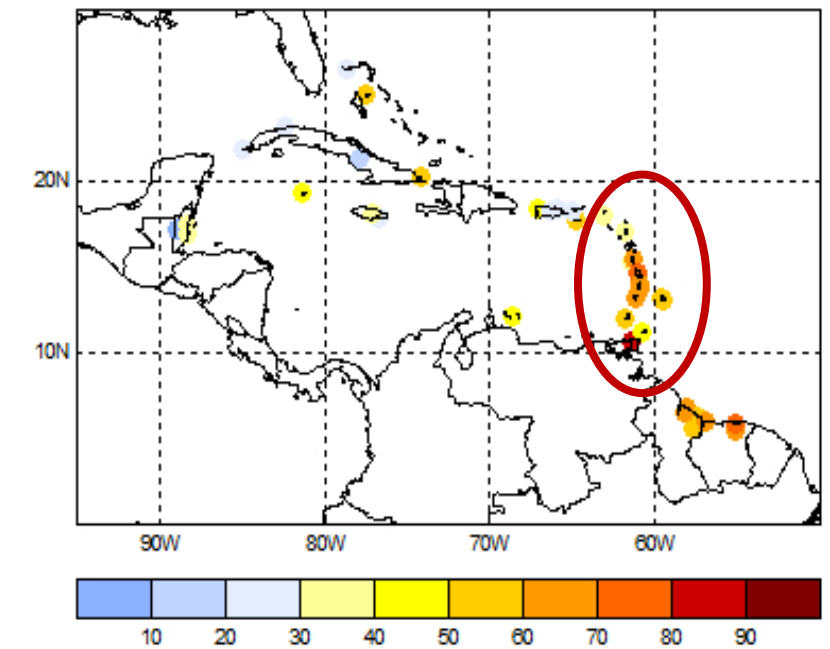
What do we expect for August to October 2021, i.e. the peak of the heat season in the Lesser Antilles?



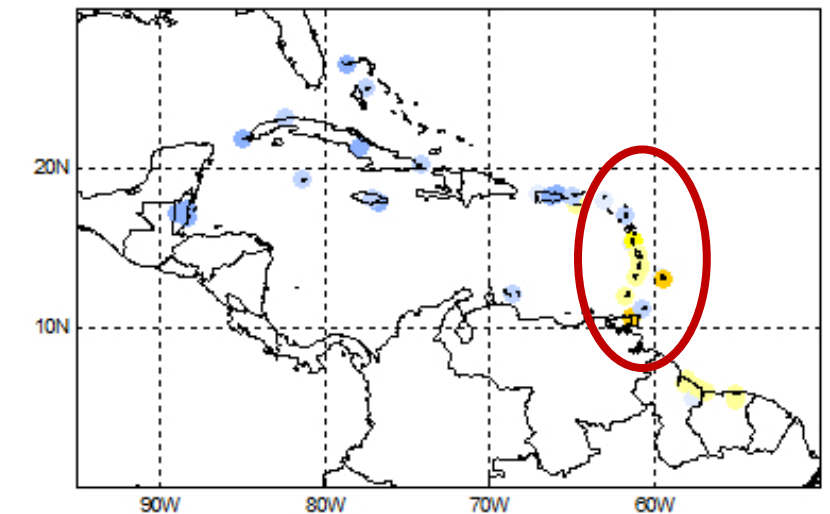
Heatwave days between Aug. & Oct. (1991-2020 avg.)



Prob. at least 15 heatwave days between Aug & Oct 2021



Prob at least 30 heatwave days between Aug & Oct 2021



USUALLY: at least 15 heatwave days over 3 months in the Caribbean Islands and the Guianas.
FORECAST: 50-80% and 30-50% chance for at least 15 and 30 heatwave days in the Lesser Antilles and the Guianas between August and October 2021, respectively. Likely fewer than 15 elsewhere.

How many heatwave days from August till October 2021?

USUALLY:

- 1) In most years, at least 15 heatwave days occur from August to October across the Caribbean Islands and the Guianas, but fewer in Belize.
- 2) There are between 6 and 12 heatwave days on average in August in the islands north and west of Martinique, but fewer than 6 in most other locations.

FORECAST:

- The number of heatwave days during the peak of the 2021 heat season in the Lesser Antilles is expected to be close to the usual.
- Note that areas with more abundant rainfall than usual will see daytime temperatures and the frequency of heatwaves tempered.

IMPLICATIONS:

- In the event of heatwaves, of which more than 5 can occur (especially during dry spells), heat stress in human populations or livestock will sharply increase.
- While episodes of heat stress are expected in the Caribbean Islands, particularly in August and September, it should be less severe than during the hottest years (e.g. 2020).



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