

# Rainfall frequency and extreme forecasts

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## Wet days and Wet spells Outlooks August to October 2020

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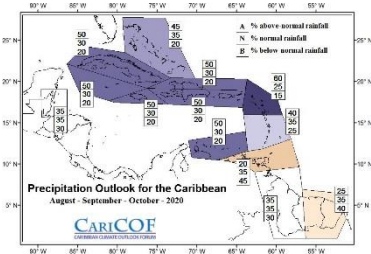
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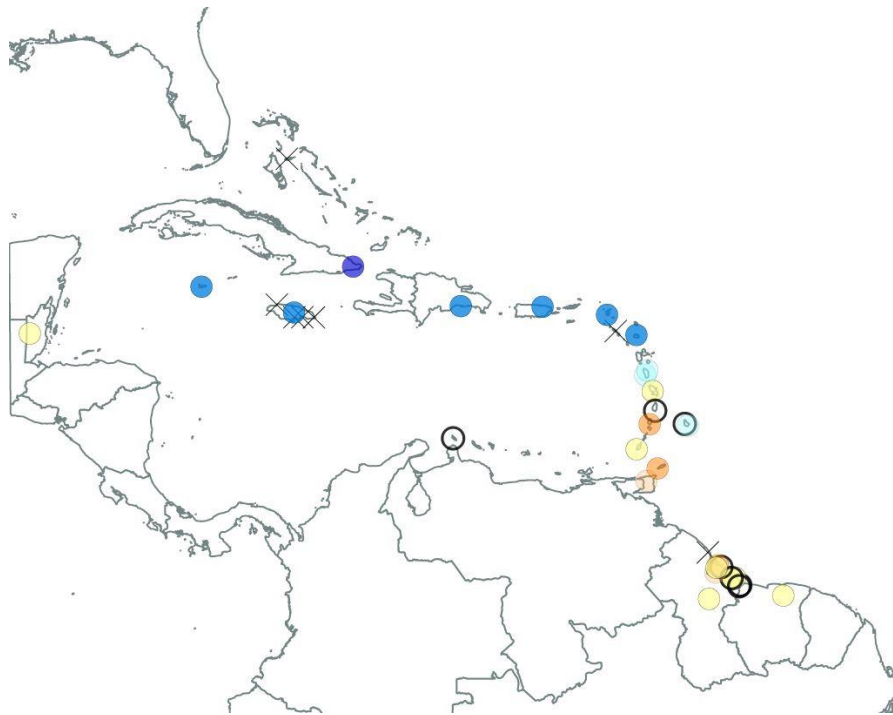
# Wet day frequency shifts

## Forecast for: August to October 2020

Precipitation outlook



### ASO 2020 Frequency of wet days



**USUALLY:** Out of 92 days in Aug-Sep-Oct, there are about 35 to 50 wet days in relatively flat areas of Belize and the islands, but around 45 to 60 in mountainous areas and 15 to 30 in coastal Guianas (ABC Islands: 10-20).

**FORECAST:** ASO rainfall may be wetter than usual across the region, with slightly more wet days than usual (*medium confidence*), but possibly drier than the usual in Trinidad & Tobago and Suriname, with slightly fewer wet days than usual (*low confid.*).

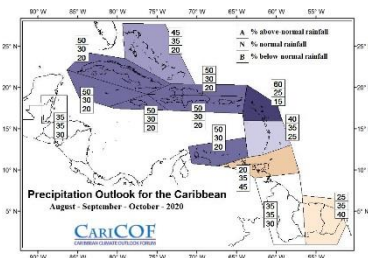
### IMPLICATIONS:

- Frequent rainfall-related disruptions of outdoor activities and generally favourable conditions for moisture-related pests and diseases in Belize and the islands.
- Progressively fewer disruptions of outdoor activities and drier conditions in the Guianas from August onwards.

# Wet spells frequency shifts

## Forecast for: August to October 2020

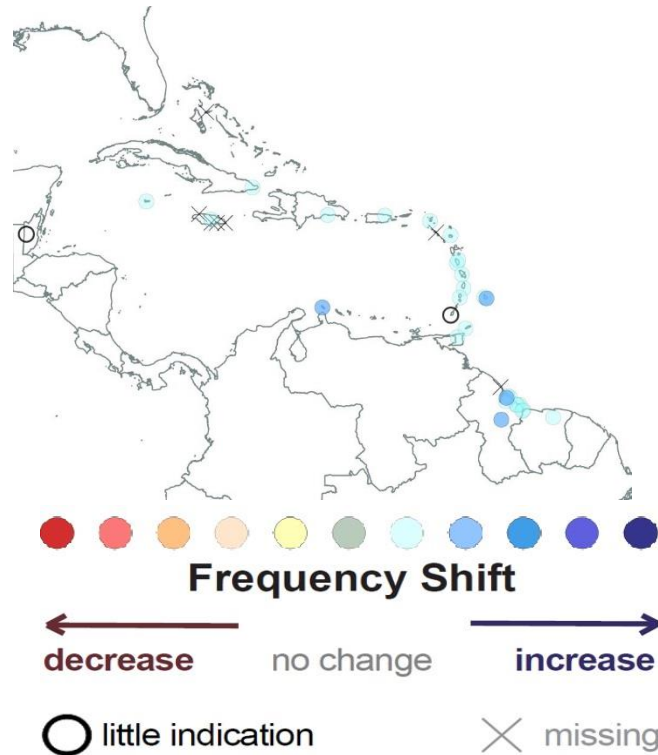
### Precipitation outlook



### Wet days outlook



### ASO 2020 frequency of 7-day wet spells



### ASO 2020 frequency of 7-day very wet spells



**USUALLY:** Between 3 to 6 wet spells (coastal Guianas: 1-3) occur from August to October, with 1 to 4 of them ending up very wet (coastal Guianas: up to 2).

**FORECAST:** ASO rainfall may be wetter than usual across the region, with slightly more wet days than usual (*medium confidence*), but possibly drier than the usual in Trinidad & Tobago and Suriname, with slightly fewer wet days than usual (*low confid.*).

**Slightly more wet spells than usual are forecast (*low to medium confid.*), of which a larger proportion than usual may end up very wet (*medium confid.*).**

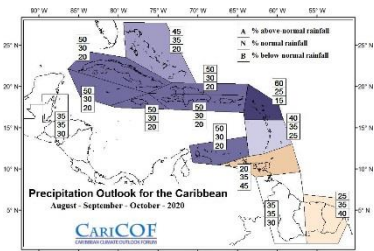
### IMPLICATIONS:

- Potentially faster recharge of water reservoirs related to an increase in wet spells.
- Increasingly high flooding potential in the Islands towards September.

# Extreme wet spells frequency shifts

## Forecast for: August to October 2020

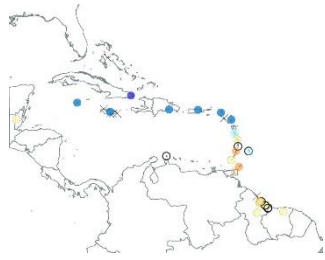
Precipitation outlook



ASO 2020 frequency of  
*extreme (top 1%) 3-day wet spells*



Wet days outlook



Wet spells outlook



Very wet spells outlook



**USUALLY:** Up to 2 extreme wet spell occur between August to October, except in the Guianas where it is the dry season.

**FORECAST:** ASO rainfall may be wetter than usual across the region, with slightly more wet days than usual (*medium confidence*), but possibly drier than the usual in Trinidad & Tobago and Suriname, with slightly fewer wet days than usual (*low confid.*). Slightly more wet spells than usual are forecast (*low to medium confid.*), of which a larger proportion than usual may end up very wet (*medium confid.*). **Similarly, an increase in the number of extreme wet spells is forecast for most Caribbean Islands (*medium confid.*).**

### IMPLICATION:

- Increasingly high flash flood potential and land slide potential in Belize and the islands towards Sept., but decreasing towards Sept. in the Guianas.
- Increased potential for surface erosion



## August to October 2020

August to October 2020								
	No. of wet days		No. of 7-day wet spells (20% wettest)		No. of 7-day very wet spells (10% wettest)		No. of 3-day extremely wet spells (1% wettest)	
	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast
Antigua (VC Bird)	30-45	36-48	3.1-5.9	3.1-6.4	0.9-3.9	1.5-5	0-1.3	0-1.9
Aruba (Beatrix)	8-22	8-25	1.7-5.4	2-6.5	0.4-3.4	1.1-4.6	0-1.8	0-2.3
Barbados (CIMH)	37-50	36-52	4.2-7.2	4.2-7.5	2-4.3	2.1-4.8	0-2	0.4-2.7
Barbados (GAIA)	39-49	39-51	4.4-6.9	4.6-7.1	1.8-4	2.1-4.8	0-1.8	0-2.4
Belize (C. Farm)	33-50	30-51	3-6.3	3-6.2	1.3-3.8	1.2-3.9	0-2	0-2.4
Cayman	34-46	36-52	4.3-6.8	4.3-7	1.7-4.3	1.6-5	0-2	0-2.2
Cuba (Punta Maisi)	12-27	16-37	2.6-5.3	2.5-5.9	1-3.4	1.3-3.8	0-1.8	0-2.2
Dom. Republic (Las Americas)	27-37	29-43	3.9-6.1	3.7-6.5	1.8-3.7	1.7-5.1	0-2	0.1-2.3
Dominica (Canefield)	45-59	46-61	3.5-6.3	3.2-7.8	1.7-4.3	1.7-5.3	0-2.5	0-2.2
Dominica (Douglas Charles)	58-70	58-74	3.5-6.9	3.5-7.4	1.7-3.9	1.8-4.7	0-1.1	0-1.5
Grenada (MBIA)	37-47	35-48	3.9-6.4	3.3-6.9	1.3-3.8	1.5-4.6	0-1.5	0-2
Guyana_73	10-21	8-21	0.8-2.9	0.7-3.5	0-1.8	0.3-2.2	0-0.9	0-0.2
Guyana (Albion)	14-29	12-30	1.1-3.6	1.3-4.1	0.5-1.7	0.6-2.1	0-1	0-0.8
Guyana (Blairmont)	18-32	17-31	0.9-3	0.9-3.3	0-1.3	0.3-1.6	0-0.1	0-0
Guyana (Charity)								
Guyana (Enmore)	16-31	15-31	0.9-3	1-3.5	0.4-1.3	0.4-1.6	0-0.1	0-0.3
Guyana (Georgetown)	21-38	18-34	0.5-2.6	0.9-3.1	0-1.4	0.1-1.5	0-0.3	0-0.1
Guyana (Greatfall)								
Guyana (New Amsterdam)	20-30	18-32	0.4-3	0.9-3.3	0-1.3	0-1.6	0-0.1	0-0.1
Guyana (Skeldon)	20-30	18-31	0.9-3	1.1-3.3	0.4-1.7	0.7-1.8	0-0.9	0-0.7
Guyana (Timehri)	34-44	31-43	1.7-3.4	1.7-3.8	0.4-1.7	0.7-2.3	0-0	0-0
Guyana_Wales	27-38	25-38	1.7-3	1.5-3.9	0.1-1.7	0.3-2.2	0-0.2	0-0.6
Jamaica (Worthy Park)	31-48	35-55	3.4-6.4	3.4-6.9	1.4-3.9	1.7-4.8	0-2	0-3.1
Martinique (FDF Desaix)	50-62	49-62	3.9-7.3	4-7.6	1.8-4.3	2-4.2	0-2	0-2.4
Puerto Rico (San Juan)	39-51	40-54	3.3-5.6	2.7-6.2	0.9-3	1.4-3.8	0-1	0-1.5
St. Lucia (Hewanorra)	44-58	43-56	3.9-6.4	3.6-7.5	2-3.9	1.7-4.7	0-2	0-1.8
St. Maarten (TNCM)	35-50	38-56	2.8-5.7	2.9-6.8	1-3.4	1.2-3.6	0-1.3	0-2.3
St. Vincent (ET Joshua)	53-63	50-63	3.3-6.9	3.4-7.6	1.6-3.6	1.9-3.9	0-2	0-2.3

grey none are expected

blue an increase,

brown is a decrease in frequency,



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