

# Rainfall frequency and extreme forecasts

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## Wet days and Wet spells Outlooks November to January 2018-'19

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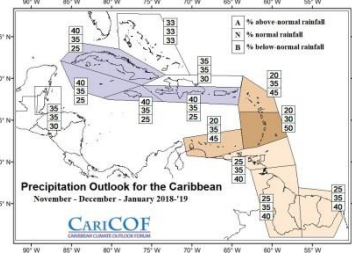
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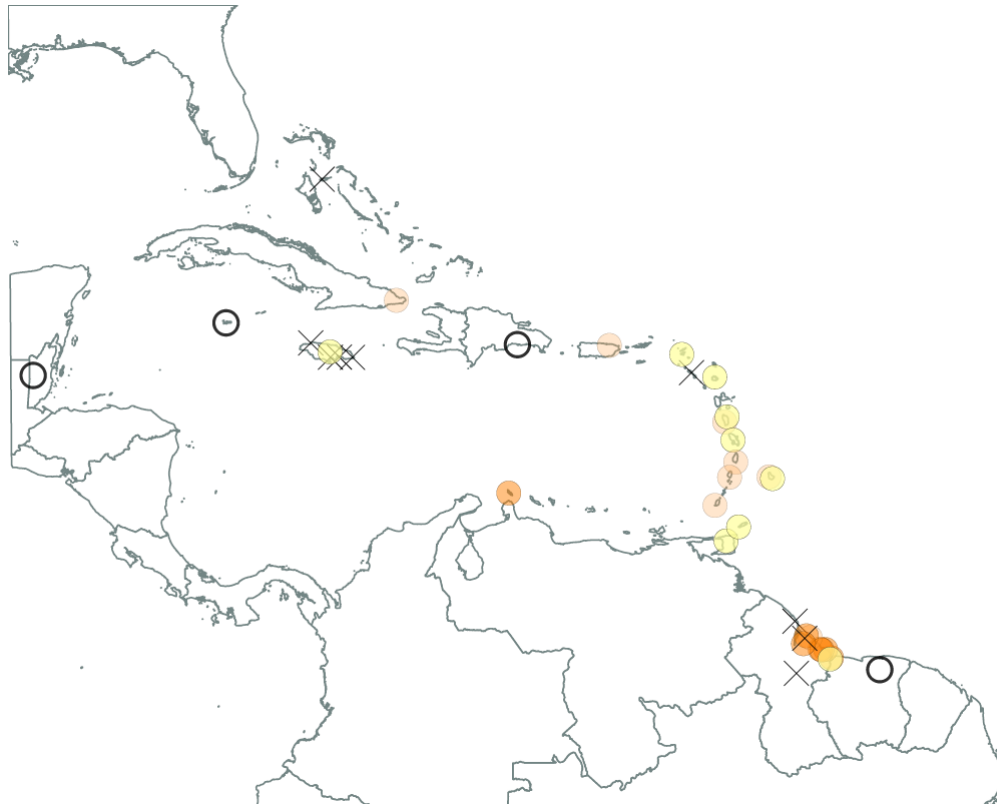
# Wet day frequency shifts

Forecast for: November 2018 to January 2019

Precipitation outlook



NDJ 2018-'19  
Frequency of wet days



**USUALLY:** Out of 92 days in Nov-Dec-Jan, there are about 35 to 50 wet days (coastal Guianas: 30-50; ABC Islands: 20-45).

**FORECAST:** NDJ rainfall may be drier than usual in the Lesser Antilles and the Guianas, but wetter than usual in Cayman & Cuba. The forecast indicates slightly fewer wet days (*low confidence*), esp. in Guyana (*medium confid.*).

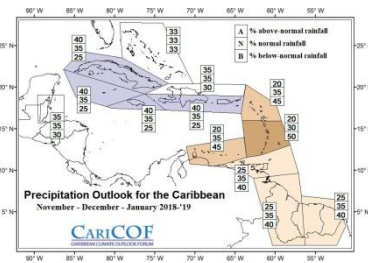
## IMPLICATIONS:

- Frequency of rainfall disruptions of outdoor activities to decrease with time.
- Decreasing surface wetness will progressively make environmental conditions less conducive to mosquito breeding and moisture related pests.

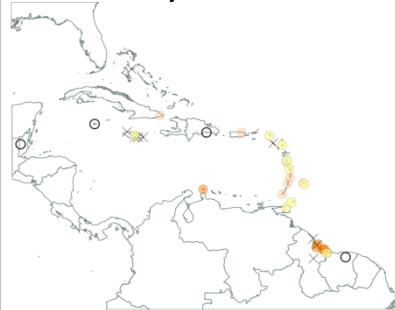
# Wet spells frequency shifts

## Forecast for: November 2018 to January 2019

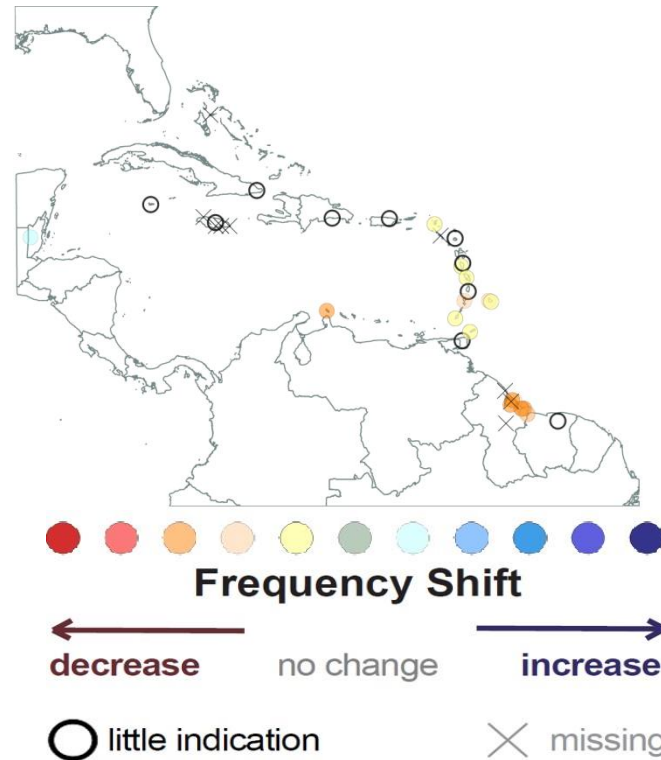
Precipitation outlook



Wet days outlook



NDJ 2018-'19 frequency of 7-day wet spells



NDJ 2018-'19 frequency of 7-day very wet spells



**USUALLY:** Between 2 and 5 wet spells occur from November to January, with 1 to 3 of them ending up very wet (coastal Guianas: up to 3).

**FORECAST:** NDJ rainfall may be drier than usual in the Lesser Antilles and the Guianas, but wetter than usual in Cayman & Cuba. The forecast indicates slightly fewer wet days (*low confidence*), wet spells and very wet spells in the eastern and southern Caribbean (*low confid.*), esp. in Guyana (*low to medium confid.*).

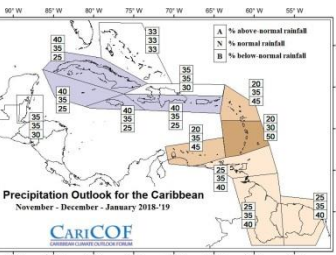
### IMPLICATIONS:

- Recharge rates of large water reservoirs, while in the wet season, potentially slightly slower than usual in Guianas.
- Significant flood potential in coastal Guyana throughout the period, and elsewhere through December.

# Extreme wet spells frequency shifts

## Forecast for: November 2018 to January 2019

Precipitation outlook



**NDJ 2018-'19 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 spells occur from November to January (Belize and the Greater Antilles up to 1).

**FORECAST:** NDJ rainfall may be drier than usual in the Lesser Antilles and the Guianas, but wetter than usual in Cayman & Cuba. The forecast indicates slightly fewer wet days (*low confidence*), wet spells and very wet spells in the eastern and southern Caribbean (*low confid.*), esp. in Guyana (*low to medium confid.*). The number of extreme wet spells might be slightly higher than forecast.

### IMPLICATION:

Flash flood potential is a concern throughout the region through December (January in the coastal Guianas).

# November 2018 to January 2019

	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)		28-46			0.9-2.7	0.5-2.7	0-1	0-1.4
Aruba (Beatrix)		28-45			0.9-3	0.7-2.7	0-1.4	0-1.5
Barbados (CIMH)		27-48			0.9-2.7	0.7-2.7	0-1	0-0.7
Barbados (GAIA)	22-28	16-30	1.7-3	1.4-3	0.4-2.1	0.3-2	0-1	0-1.5
Belize (C. Farm)	51-62	15-28	2.5-4.7	1.7-5	1-2.8	0.9-3	0-1	0-1.2
Cayman	36-51	17-29	2.7-5.3	2.6-5.3	0.4-1.7	0.3-1.8	0-0.8	0-0.2
Cuba (Punta Maisi)		38-53			0.6-2.2	0.5-2.1	0-1	0-0.3
Dom. Republic (Las Americas)	38-50	51-68	1.7-3.6	1.8-4.3	0.5-2.6	0.6-2.9	0-1	0-1.4
Dominica (Canefield)	34-52	25-44	2.1-5.3	2.1-5.3	0.9-2.6	0.6-2.6	0-1.1	0-1.7
Dominica (Douglas Charles)	50-66	13-25	2-4.7	1.4-4.6	0.4-3.2	0.3-2.4	0-2	0-1.1
Grenada (MBIA)	40-52	22-42	1.7-3.6	1.5-3.5	0.4-3	0.4-2.1	0-1	0-1.1
Guyana_73	36-51	26-47	2.1-4	1.4-4.3	0.5-2.6	0.4-2.2	0-2	0-1.3
Guyana (Albion)								
Guyana (Blairmont)	19-49	16-42	0.9-4.3	0.9-4	0.9-3.4	0.9-3.1	0-1.4	0-1.8
Guyana (Enmore)	30-49	28-47	1.1-4.5	1.1-4	0.7-4.2	0.4-3	0-2.9	0-2.3
Guyana (Georgetown)								
Guyana (New Amsterdam)	25-43	20-39	1.1-3.9	0.8-3.7	0.6-3.3	0.5-2.5	0-2	0-1.7
Guyana (Skeldon)	28-40	23-41	1.3-3.5	1.2-3.4	0.4-2.5	0.2-2.2	0-1.7	0-1.3
Guyana (Timehri)	40-54	35-51	1.7-4.1	1.6-3.8	0.9-3.2	0.4-2.6	0-1	0-1.4
Guyana_Wales	30-48	32-52	1.7-4.4	1.3-4				
Jamaica (Worthy Park)	23-37	21-37	2.6-5.1	2.3-4.7	0.2-2.1	0.3-2	0-1	0-0.2
Martinique (FDF Desaix)	50-61	47-63	3.2-6.2	2.7-6.2	0.9-2.6	0.7-2.6	0-1	0-1
Puerto Rico (San Juan)	38-52	34-53	3-6	2.9-5.7	0.9-2.6	0.9-2.7	0-1	0-1.2
St. Lucia (Hewanorra)	41-53	37-53	3-5.3	2.8-5.4	0.7-2.6	0.6-2.5	0-1	0-0.8
St. Maarten (TNCM)	36-50	33-51	2.8-5.6	2.8-5.9	1.3-3.2	0.8-3	0-1	0-1.9
St. Vincent (ET Joshua)	52-64	50-64	3.4-6.5	3-6.5	0.9-2.6	0.6-2.8	0-1	0-1.4
Suriname (Zanderij)	31-46	30-48	1.3-2.6	1.2-2.6	0.4-1.7	0.5-1.9	0-1	0-1.2
Tobago (ANR Robinson)	39-52	38-52	2.8-5.5	2.5-5.5	0.9-2.4	0.9-2.3	0-1	0-1.5
Trinidad (Piarco)	38-49	37-49	3.2-5.9	3.3-5.9	1.3-3	0.9-2.9	0-1	0-1.5

grey none are expected, dark blue an increase, brown is a decrease in frequency,