

# Rainfall frequency and extreme forecasts

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## wet days and wet spells outlooks

### February to April 2018

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# Wet day frequency shifts

Forecast for: February to April 2018

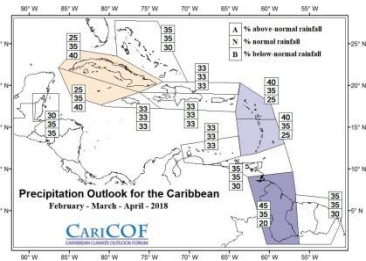
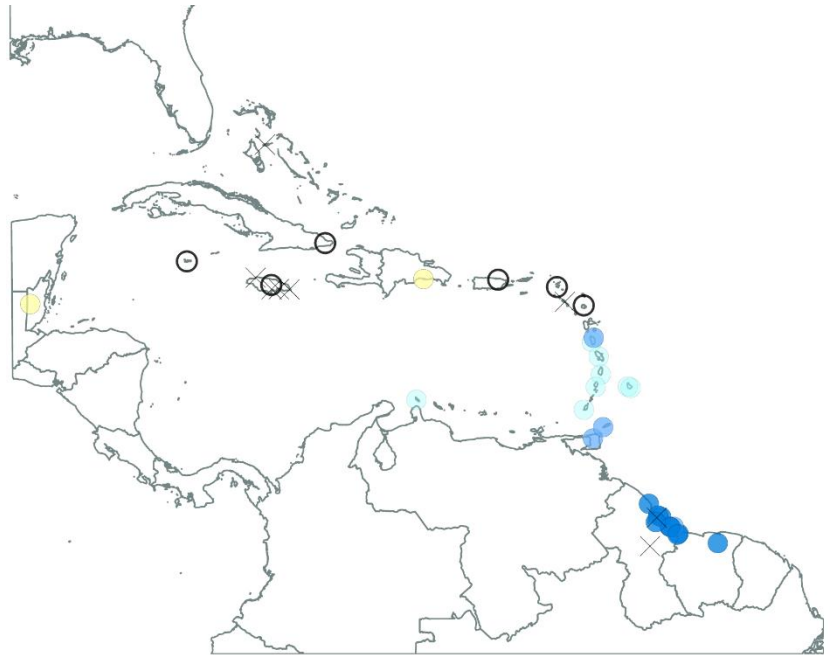
**USUALLY:** Out of 90 days in Feb-Mar-Apr, there are about 15 to 30 wet days (ABC Islands: 5-15; coastal Guianas: 20-45).

**FORECAST:** FMA rainfall is likely to be above- to normal in the W Guianas, Barbados, Leewards and Windwards, but below- to normal in Cayman and Cuba. The forecast indicates a higher than usual number of wet days for the Guianas (*high confidence*) and the islands from Dominica southward (*low to medium confid.*).

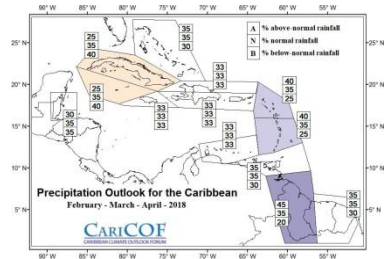
**IMPLICATION:**

- Surface dryness increasing the usual way along the dry season.
- Rainfall disruptions of outdoor activities at their annual minimum in most islands (up to March in Hispaniola).
- Sufficient surface wetness in Guianas to limit dust haze and fires.

**FMA 2018  
Frequency of wet days**



## Precipitation outlook



## Wet days outlook

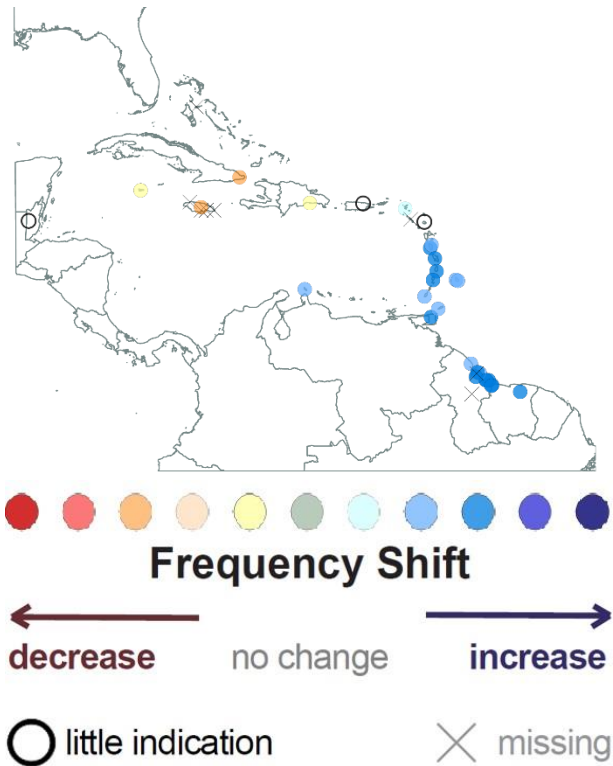


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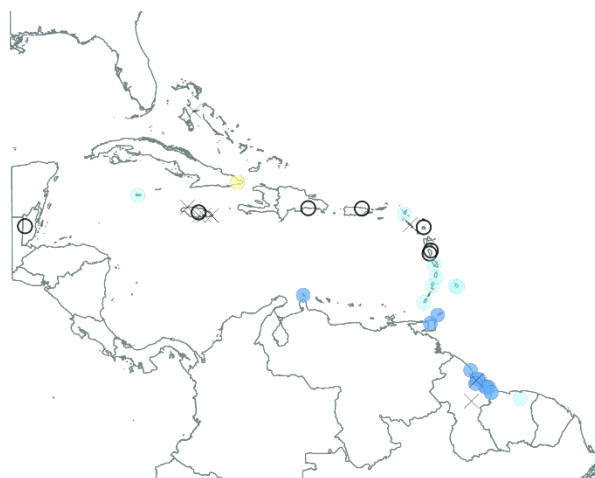
# Wet spells frequency shifts

## Forecast for: February to April 2018

FMA 2018 frequency of 7-day wet spells



FMA 2018 frequency of 7-day very wet spells



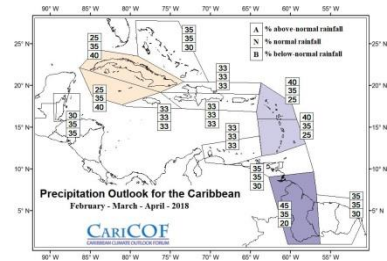
**USUALLY:** Up to 3 wet spells (coastal Guianas: up to 4) occur from Feb to Apr, with up to 1 of them ending up very wet (coastal Guianas: up to 2).

**FORECAST:** FMA rainfall is likely to be above- to normal in the W Guianas, Barbados, Leewards and Windwards, but below- to normal in Cayman and Cuba. The forecast indicates a higher than usual number of wet days, **wet spells and very wet spells** for the Guianas (*high confidence*) and the islands from Dominica southward (*low to medium confid.*).

### IMPLICATION:

- **Potentially slower depletion rates of large water reservoirs than usual for the dry season associated with a higher number of wet spells.**

## Precipitation outlook



# Extreme wet spells frequency shifts

## Forecast for: February to April 2018

**USUALLY:** : Up to 1 extreme wet spell occurs from February to April in mountainous areas. Virtually none in most other places.

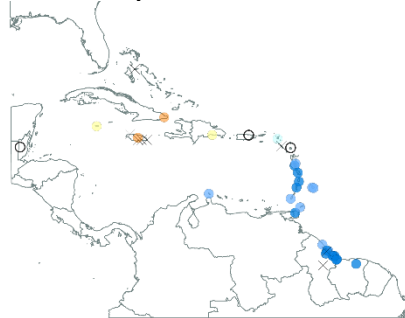
**FORECAST:** FMA rainfall is likely to be above-normal in the W Guianas, Barbados, Leewards and Windwards, but below-normal in Cayman and Cuba. The forecast indicates a higher than usual number of wet days, wet spells and very wet spells for the Guianas (*high confidence*) and the islands from Dominica southward (*low to medium confid.*). The usual number of extreme wet spells is forecast in most places (*medium to high confidence*).

## FMA 2018 frequency of extreme (top 1%) 3-day wet spells

### Wet days outlook



### Wet spells outlook



### Very wet spells outlook



**IMPLICATION:** Flash flood potential is not a major concern at this time.

# February - April 2018

	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)	15-29	16-32	0.9-2.5	0.9-2.8	0.4-1.3	0.1-1.4	0-1	0-0.8
Aruba (Beatrix)	4-15	4-17	0.4-2.6	0.6-2.9	0-1.2	0-1.2	0-0	0-0
Barbados (CIMH)	15-31	17-34	0.4-1.6	0.4-1.9	0-0.9	0-1	0-0	0-0
Barbados (GAIA)	17-29	17-35	0.4-2.1	0.6-2.3	0-0.9	0-1	0-0	0-0
Belize (C. Farm)	9-20	7-20	0.4-1.6	0.1-1.7	0-0.9	0-0.8	0-0	0-0
Cayman	7-16	6-18	0-1.3	0-1.5	0-0.6	0-0.9	0-0	0-0
Cuba (Punta Maisi)	10-16	8-18	1.7-3	1.2-2.9	0.4-1.8	0.3-1.6	0-0.9	0-0.4
Dom. Republic (Las Americas)	12-21	10-22	0.9-2.5	0.7-2.8	0.4-1.7	0.2-1.6	0-0	0-0.1
Dominica (Canefield)	23-35	21-46	0-2.1	0.2-2.4	0-0.9	0-0.9	0-0	0-0
Dominica (Douglas Charles)	37-56	37-62	0.4-2.6	0.8-3.2	0-1.6	0-1.6	0-0.1	0-0
Grenada (MBIA)	11-24	13-27	0-1.2	0.1-2	0-0.6	0-1	0-0	0-0
Guyana_73	14-26	16-31	1.1-4.2	1.6-5	0.4-2.4	0.5-2.8	0-1.1	0-0.3
Guyana (Albion)	23-37	23-43	0.8-3.4	1.1-3.9	0-1.7	0.3-2.3	0-1	0-0.9
Guyana (Blairmont)	23-44	25-51	0.9-3.3	1.1-4.3	0.3-1.7	0.4-2.4	0-1	0-0.4
Guyana (Enmore)	24-38	26-44	1.1-3	1.1-3.6	0.4-2.2	0.5-2.4	0-1.1	0-1
Guyana (Georgetown)	23-42	26-50	0.4-3.4	1-4	0-2.1	0.3-2.4	0-0.9	0-0.5
Guyana (New Amsterdam)	24-41	26-51	0.9-3.3	1.1-4.4	0.4-2	0.5-2.5	0-1	0-0.8
Guyana (Skeldon)	21-41	26-49	1.1-3.9	1.5-5	0.3-2.6	0.5-2.7	0-1	0-0.3
Guyana (Timehri)	23-45	28-56	0.4-3	0.9-4.3	0-1.7	0.3-2.1	0-1	0-1
Jamaica (Worthy Park)	14-26	13-27	0.9-3.1	0.6-2.9	0.1-2.1	0.1-1.7	0-0	0-0
Martinique (FDF Desaix)	30-47	27-57	0.3-1.7	0.6-2.3	0-0.9	0.1-1.1	0-0	0-0
Puerto Rico (San Juan)	21-35	21-38	0.9-2.6	0.7-2.7	0.4-1.7	0.1-1.8	0-1	0-1.2
St. Lucia (Hewanorra)	21-35	20-40	0-2.4	0.7-2.7	0-1.3	0-1.3	0-1	0-0.5
St. Maarten (TNM)	22-38	21-39	0.9-3.2	0.8-3.7	0.4-1.3	0.2-1.5	0-0	0-0
St. Vincent (ET Joshua)	31-50	29-57	0-2.6	0.5-3.1	0-1.3	0-1.4	0-0	0-0
Suriname (Zanderij)	34-55	36-63	1-4.7	1.6-5.7	0.9-2.6	0.8-3.2	0-1	0-1.1
Tobago (ANR Robinson)	12-29	14-32	0-1.3	0-1.3	0-0.4	0-0.6	0-0	0-0
Trinidad (Piarco)	11-31	13-35	0-2.1	0.3-2.7	0-1.3	0-1.2	0-0	0-0

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