

# Rainfall frequency and extreme forecasts

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## wet days and wet spells outlooks

### December to February 2017-'18

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# Wet day frequency shifts

Forecast for: December to February 2017-'18

DJF 2017-'18

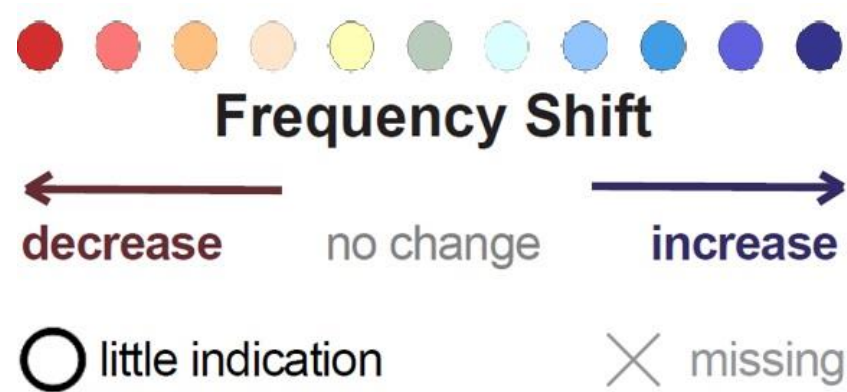
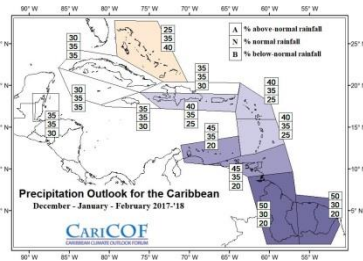
Frequency of wet days

**USUALLY:** Out of 90 days in Dec-Jan-Feb, there are about 25 to 40 wet days (ABC Islands: 10-35; coastal Guianas: 30 to 50).

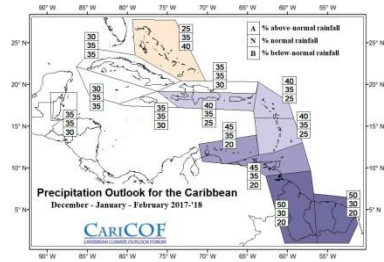
**FORECAST:** DJF rainfall is likely to be above- to normal from S Hispaniola east- and southward, but below- to normal in The Bahamas. The forecast indicates a slight increase in the number of wet days in ABC Islands and Lesser Antilles (*low to medium confidence*), a 10-20% increase coastal Guianas (*medium to high confid.*), but a decrease in wet days in Cayman and Jamaica (*low confidence*).

## IMPLICATION:

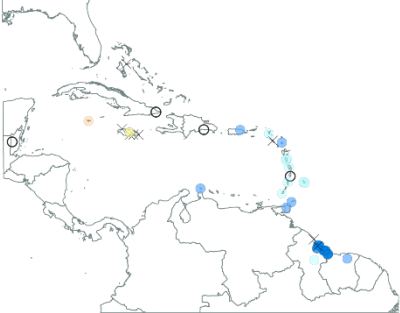
- Rainfall disruptions of outdoor activities, becoming less frequent towards February.
- Increased surface wetness in Guianas makes environmental conditions more conducive to moisture related pests.
- More reliable rains beneficial for crops in the Guianas.



## Precipitation outlook



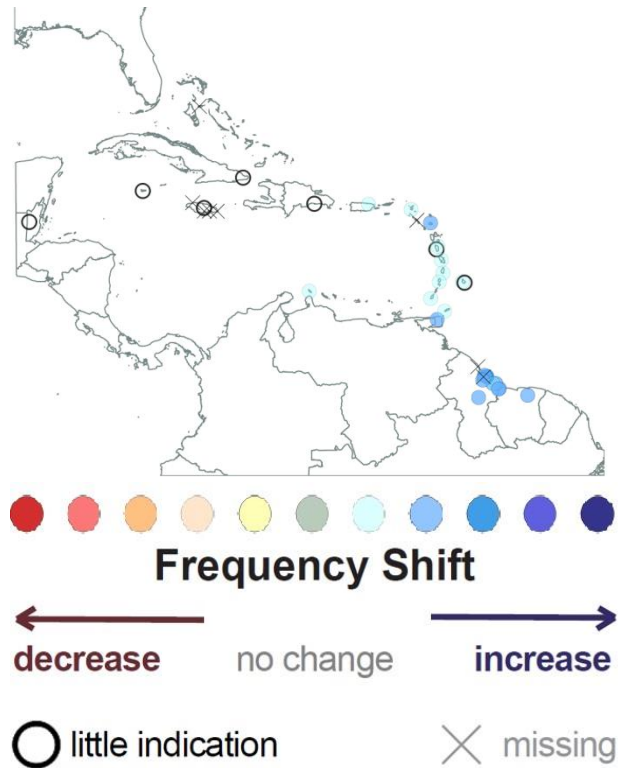
## Wet days outlook



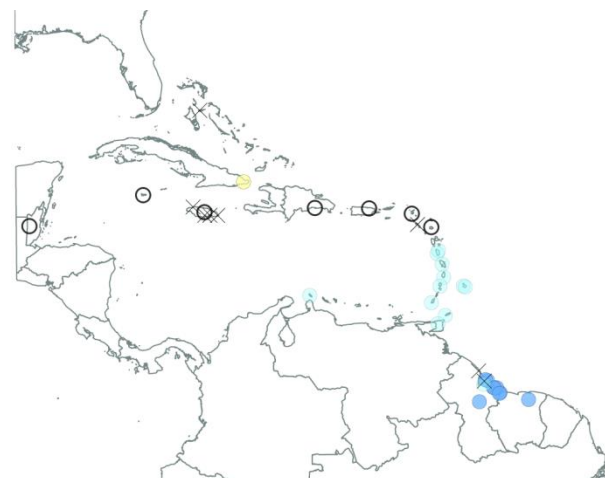
# Wet spells frequency shifts

## Forecast for: December to February 2017-'18

DJF 2017-'18 frequency of 7-day wet spells



DJF 2017-'18 frequency of 7-day very wet spells



**USUALLY:** Between 1 and 3 wet spells occur from December to February (ABC Islands: 2 to 6; coastal Guianas: 1 to 5), with up to 1 or 2 of them ending up very wet (ABC Islands & coastal Guianas: up to 3).

**FORECAST:** DJF rainfall is likely to be above- to normal from S Hispaniola east- and southward, but below- to normal in The Bahamas. The forecast indicates a slight increase in the number of wet days, wet spells & very wet spells in ABC Islands and Lesser Antilles (*low to medium confidence*), a 10-20% increase in coastal Guianas (*medium to high confid.*), but a decrease in wet days in Cayman and Jamaica (*low confid.*).

### IMPLICATION:

- Long-term flooding risk enhanced in Guianas.
- Slower depletion of large water reservoirs during the dry season.

# Extreme wet spells frequency shifts

## Forecast for: December to February 2017-'18

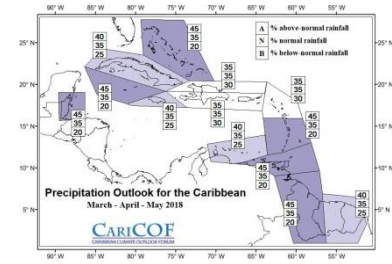
**USUALLY:** Up to 1 extreme wet spells occur from December to February in Belize and in some islands (coastal Guianas: up to 2).

**FORECAST:** DJF rainfall is likely to be above-normal from S Hispaniola east- and southward, but below-normal in The Bahamas. The forecast indicates a slight increase in the number of wet days, wet spells & very wet spells in ABC Islands and Lesser Antilles (*low to medium confidence*), a 10-20% increase in coastal Guianas (*medium to high confid.*), but a decrease in wet days in Cayman and Jamaica (*low confid.*).

**By contrast, the forecast indicates no change from the usual number of wet days or extreme wet spells (*low confidence*).**

**IMPLICATION:** Flash flood potential remains a concern in coastal Guianas through January and in other areas through December.

### Precipitation outlook



### DJF 2017-'18 frequency of extreme (top 1%) 3-day wet spells

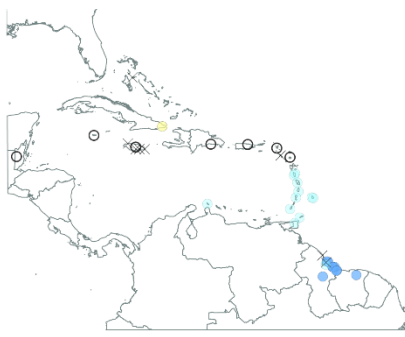
#### Wet days outlook



#### Wet spells outlook



#### Very wet spells outlook



# December to February 2017-'18

	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)	23-40	25-44	1.3-2.6	1.4-3.7	0.4-1.4	0.1-1.6	0-0	0-0
Aruba (Beatrix)	12-35	16-46	2.3-6.4	2.8-7.2	0.3-3.4	1-3.9	0-1	0-0.8
Barbados (CIMH)	21-44	25-46	0.9-2.4	0.9-2.7	0-1.3	0.1-1.5	0-0	0-0
Barbados (GAIA)	22-41	23-44	0.7-3	0.8-3.4	0-1.3	0.3-1.5	0-0	0-0
Belize (C. Farm)	21-40	19-39	1.3-3.7	1.1-3.8	0.4-1.7	0.1-1.8	0-0.9	0-0.2
Cayman	11-22	10-22	0.4-2.1	0.3-2.3	0-0.9	0-1.1	0-0	0-0
Cuba (Punta Maisi)	13-22	12-24	1.7-3.9	1.5-4.4	0.5-2.1	0.4-2.1	0-0	0-0
Dom. Republic (Las Americas)	15-23	14-26	0.9-2.1	0.6-2.8	0-1.3	0-1.2	0-0.2	0-0.3
Dominica (Canefield)	36-53	35-56	0.8-3.6	0.5-3.8	0-1.2	0-1.6	0-0	0-0
Dominica (Douglas Charles)	48-62	44-68	0.8-2.8	0.8-3.6	0-1.3	0-1.5	0-0	0-0
Grenada (MBIA)	20-38	19-45	0.7-3.6	0.7-3.8	0-1.9	0.1-2.1	0-0.9	0-0.8
Guyana_73	15-34	19-36	0.9-5.3	1.6-5.6	0.4-3.9	0.7-4.2	0-2	0-1.6
Guyana (Albion)	25-50	32-58	1.3-5.9	2.1-6.2	0.4-3.4	1-3.6	0-1.8	0-1.4
Guyana (Blairmont)	33-53	35-64	1.2-5.6	1.7-6.1	0.4-3.1	0.9-3.7	0-2	0-1.7
Guyana (Enmore)	29-51	35-57	1.3-4.8	2.3-5.7	0.4-3.9	1-5.1	0-1	0-1.2
Guyana (Georgetown)	33-59	40-64	0.8-5.5	1.4-6.8	0-4.3	0.7-4.5	0-2	0-2.3
Guyana (New Amsterdam)	36-57	37-61	1.3-4.3	1.5-4.8	0.4-2.1	0.7-2.5	0-0.1	0-0.2
Guyana (Skeldon)	31-53	36-60	1-5.1	1.7-5.6	0.7-3.8	1-3.8	0-2	0-1.7
Guyana (Timehri)	27-47	32-55	1.2-4.7	1.8-4.9	0.4-2.6	0.7-2.8	0-2.1	0-1.4
Jamaica (Worthy Park)	17-25	13-25	0.4-2.6	0.4-2.6	0-1.7	0-1.4	0-0	0-0
Martinique (FDF Desaix)	43-59	42-63	0.9-3	1.1-3.4	0-1.3	0.1-1.3	0-0	0-0
Puerto Rico (San Juan)	30-46	32-50	1.3-3.5	1.6-4.1	0.4-1.4	0.5-1.8	0-1	0-1
St. Lucia (Hewanorra)	29-46	30-48	0.9-2.6	1.1-3	0-1.3	0.2-1.4	0-0	0-0
St. Maarten (TNM)	30-47	30-50	1.7-4.4	1.7-5.4	0-2.1	0.1-2.4	0-1	0-1.1
St. Vincent (ET Joshua)	42-60	41-63	0.9-3	0.9-3.3	0-1.7	0.3-1.9	0-0	0-0
Suriname (Zanderij)	42-54	42-59	1.6-3.9	2.1-4.3	0.4-2.1	0.8-2.6	0-1	0-1.2
Tobago (ANR Robinson)	26-40	28-44	0-2.4	0.5-2.9	0-1.3	0.1-1.5	0-1	0-0.3
Trinidad (Piarco)	23-37	24-44	0.8-3.4	0.9-4	0-2.1	0.2-2.1	0-1	0-1

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



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