

Rainfall frequency and extreme forecasts

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wet days and wet spells outlooks

September to November 2017

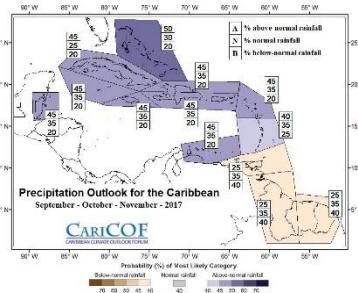
**Dr. Cedric VAN MEERBEECK¹, Wazita Scott¹, Dr. Simon MASON²,
Ángel MUÑOZ², Dr. Teddy ALLEN², Dale Destin³**

¹Caribbean Institute for Meteorology and Hydrology (CIMH), Barbados

²International Research Institute for Climate and Society (IRI), USA

³Antigua and Barbuda Meteorological Services

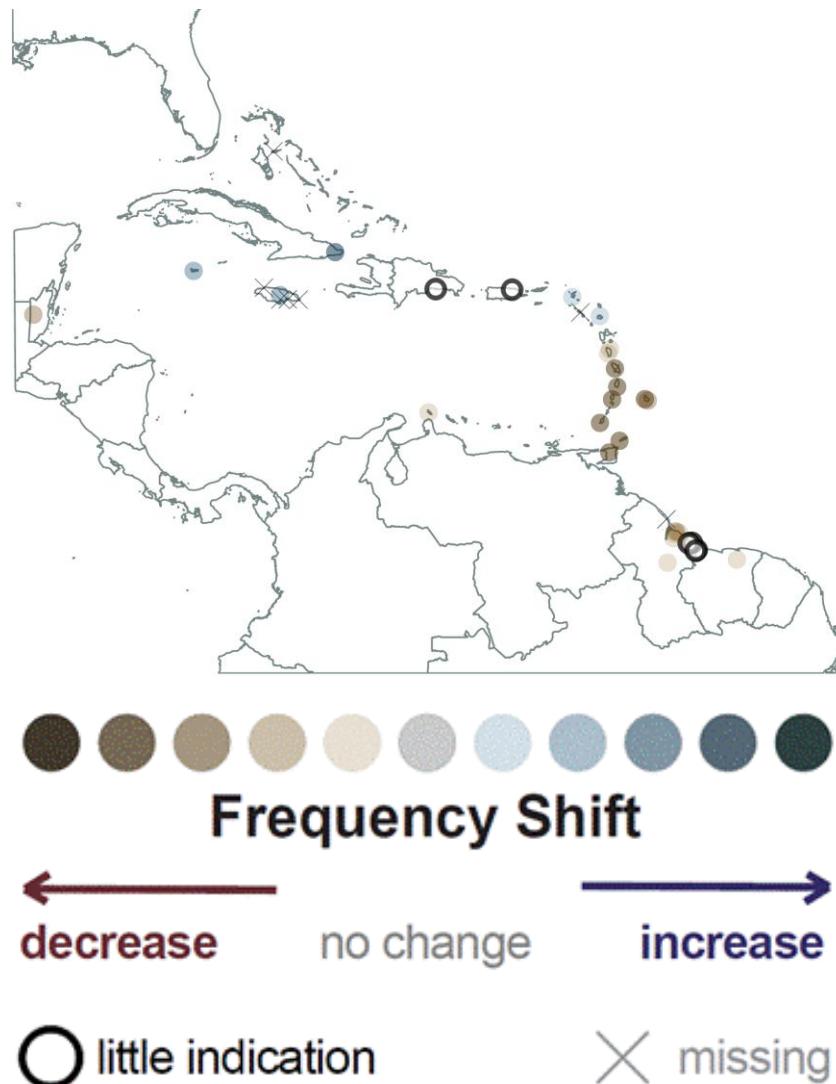




Wet day frequency shifts

Forecast for: September to November 2017

SON 2017 Frequency of wet days



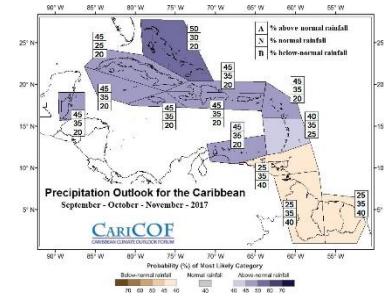
USUALLY: Out of 91 days in Sep-Oct-Nov, there are about 35 to 50 wet days (coastal Guianas: 20-35; ABC Islands: 10-20).

FORECAST: SON rainfall is likely to be above- to normal in the Antilles (except Trinidad & Tobago), The Bahamas and Belize, but below- to normal in the Guianas and Trinidad & Tobago. We forecast more wet days in the ABC Islands and eastern Cuba, but fewer wet days in Belize, and most places south of Martinique (*medium confidence*).

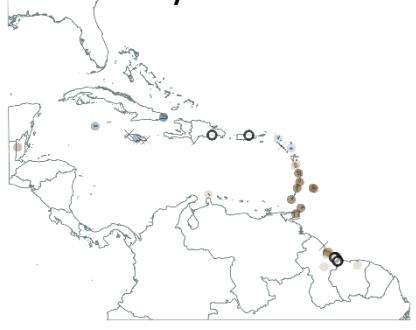
IMPLICATION:

- Frequent rainfall disruptions of outdoor activities.
- Surface wetness makes environmental conditions more conducive to mosquito breeding and moisture related pests.

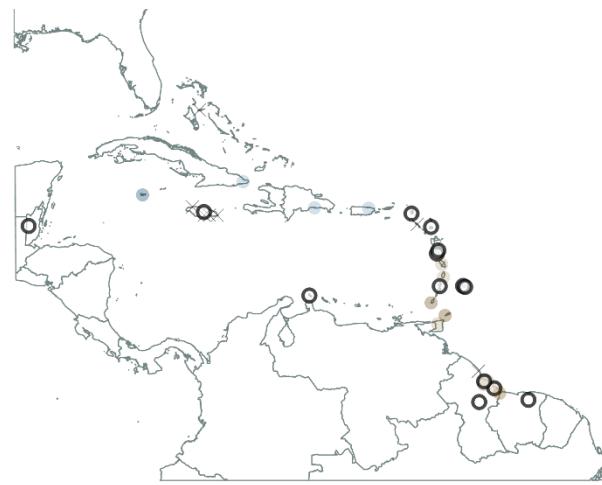
Precipitation outlook



Wet days outlook

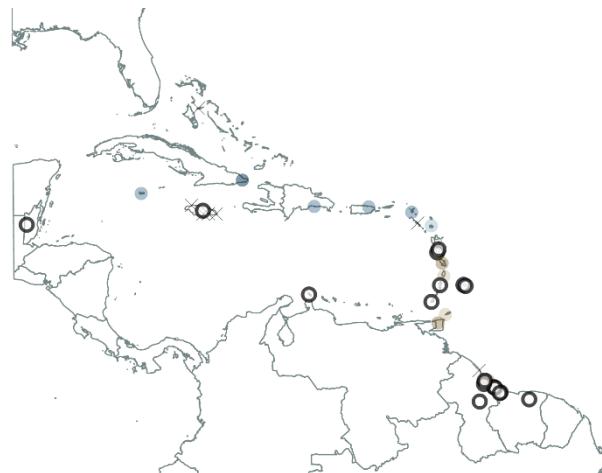


SON 2017 frequency of 7-day wet spells



○ no indication ✕ missing

SON 2017 frequency of 7-day very wet spells



Wet spells frequency shifts

Forecast for: September to November 2017

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

FORECAST: SON rainfall is likely to be above- to normal in the Antilles (except Trinidad & Tobago), The Bahamas and Belize, but below- to normal in the Guianas and Trinidad & Tobago. We forecast more wet days in the ABC Islands and eastern Cuba, but fewer wet days in Belize, and most places south of Martinique (*medium confid.*). By contrast, we forecast the usual number of wet and very wet spells (*low confid.*).

IMPLICATION:

- **Recharge of large water reservoirs associated with wet season.**

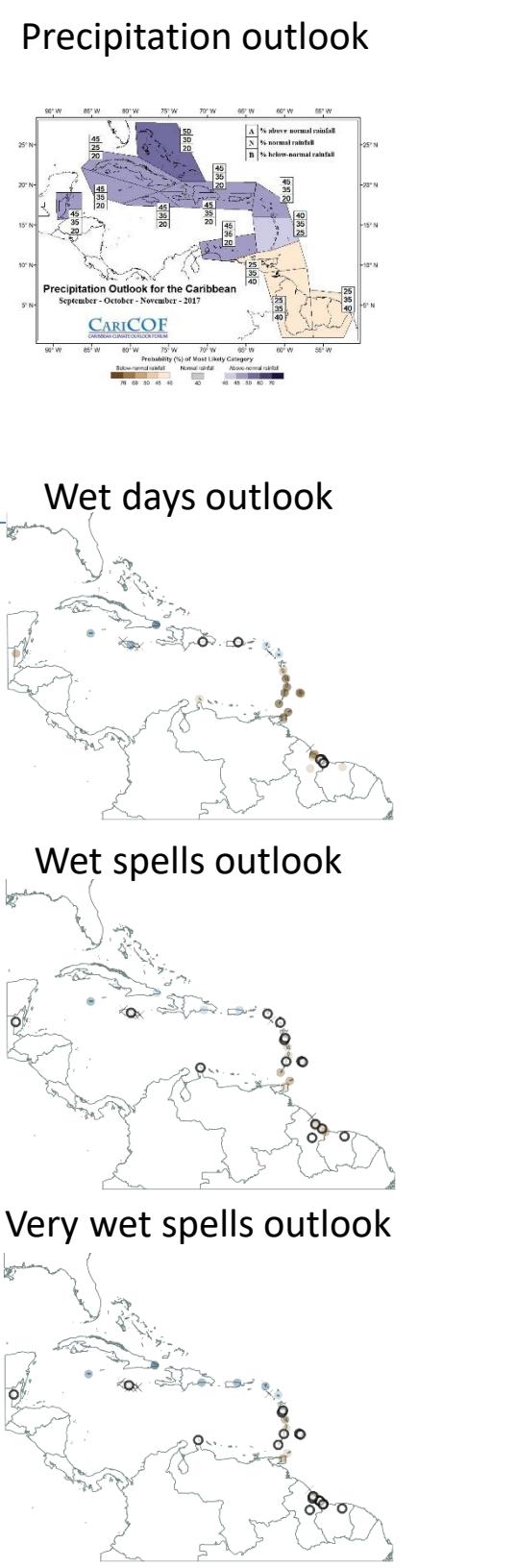
Extreme wet spells frequency shifts

Forecast for: September to November 2017

USUALLY: Up to 2 extreme wet spells occur from September to November, except in the Guianas where it is the dry season.

FORECAST: SON rainfall is likely to be above- to normal in the Antilles (except Trinidad & Tobago), The Bahamas and Belize, but below- to normal in the Guianas and Trinidad & Tobago. We forecast more wet days in the ABC Islands and eastern Cuba, but fewer wet days in Belize, and most places south of Martinique (*medium confid.*). By contrast, we forecast the usual number of wet and very wet spells (*low confid.*), but an increase in extremely wet spells (*medium confid.*).

IMPLICATION: Flash flood potential is a concern throughout the region, incl. coastal Guianas from November onwards.



September to November 2017

	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)		grey none are expected dark blue an increase, brown is a decrease in frequency,
	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	
Antigua (VC Bird)	31-45	33-45	3-6	3-6.4	0.9-3.9	1.4-4.8	0-1	0-1.9	
Aruba (Beatrix)	9-21	10-28	1.7-5.1	2.2-6.6	0.4-3.4	1.1-4.4	0-2	0.1-2.3	
Barbados (CIMH)	37-50	33-48	4.3-6.9	3.9-7.1	2.1-4.3	2-4.3	0-2	0.2-2.6	
Barbados (GAIA)	40-49	37-49	4.3-6.9	4.2-6.8	1.7-3.9	2-4.2	0-2	0-2.3	
Belize (C. Farm)	34-50	30-49	3-6.4	3-5.8	1.3-3.9	1.4-3.8	0-2	0-2	
Cayman	35-46	32-50	4.3-6.9	4-7.1	1.7-4.3	2-5	0-2	0-2.2	
Cuba (Punta Maisi)	12-27	18-38	2.6-5.1	2.8-6.8	0.9-3.4	1.8-4.6	0-2	0-1.9	
Dom. Republic (Las Americas)	27-37	25-40	3.9-6	3.3-6.9	1.8-3.6	1.7-4.8	0-2	0.1-2.1	
Dominica (Canefield)	45-61	41-56	3.5-6.3	2.8-6.6	1.7-4.5	1.4-4.1	0-2.5	0-2.2	
Dominica (Douglas Charles)	57-70	54-70	3.4-6.9	3.6-6.6	1.7-3.7	1.8-4	0-1	0-1.6	
Grenada (MBIA)	37-47	32-45	3.9-6.2	3.1-6.3	1.3-3.9	1.4-4.1	0-1.4	0-1.9	
Guyana_73	11-21	8-20	0.9-3	0.5-2.6	0-2.1	0.1-1.5	0-1	0-0.2	
Guyana (Albion)	14-28	10-29	0.9-3.5	0.4-2.8	0.4-1.7	0.2-1.3	0-1	0-0.4	
Guyana (Blairmont)	19-32	12-29	0.9-3	0.4-2.5	0-1.3	0.2-1.3	0-0	0-0.2	
Guyana (Enmore)									
Guyana (Georgetown)	16-31	12-31	0.9-3	0.4-2.5	0.4-1.3	0.2-1.1	0-0	0-0.2	
Guyana (New Amsterdam)	22-38	17-34	0.4-2.6	0.5-2.5	0-1.3	0.1-1.1	0-0	0-0.6	
Guyana (Skeldon)	25-40	22-39	0.9-3	0.8-2.9	0.4-1.8	0.2-1.6	0-0.1	0-0.9	
Guyana (Timehri)	20-28	14-31	0.4-3	0.5-2.8	0-1.3	0-1.4	0-0.1	0-0.5	
Jamaica (Worthy Park)	21-31	16-34	0.9-3	0.7-2.8	0.4-1.7	0.4-1.5	0-1	0-0.8	
Martinique (FDF Desaix)	34-44	29-43	1.7-3.4	1.3-3.1	0.4-1.7	0.5-1.8	0-0	0-0.2	
Puerto Rico (San Juan)	27-38	24-37	1.7-3	1.1-3.4	0.1-1.7	0.2-1.8	0-0.2	0-0.7	
St. Lucia (Hewanorra)	30-47	31-51	3.4-6.4	3.3-6.5	1.3-3.9	1.4-4.1	0-2	0-2.1	
St. Maarten (TNCM)	50-63	46-60	3.9-7.3	3.5-7	1.7-4.3	1.9-4	0-2	0-2.3	
St. Vincent (ET Joshua)	39-51	39-52	3.4-5.6	3-6.4	0.9-3	1.5-3.7	0-1	0-1.5	
Suriname (Zanderij)	44-58	41-52	3.9-6.4	3.7-6.2	2.1-3.9	1.6-4.2	0-2	0-1.9	
Tobago (ANR Robinson)	34-49	36-53	2.6-5.6	3.1-6.5	0.9-3.4	1.6-4.3	0-1	0-1.8	
Trinidad (Piarco)	53-63	49-62	3.4-6.9	3.6-7	1.7-3.4	1.8-4.1	0-2	0-2.4	



CARI^{CO}F
CARIBBEAN CLIMATE OUTLOOK FORUM

caricof@cimh.edu.bb
rcc.cimh.edu.bb

Caribbean Institute for Meteorology and Hydrology
TEL: (246) 425-1362/3 | FAX: (246) 424-4733