

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks July to September 2019

**Dr. Cedric VAN MEERBEECK¹, Dr. Teddy ALLEN¹, Dr. Simon MSONN²,
Ángel MUÑOZ², Wazita Scott¹, Dale Destin³**

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

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

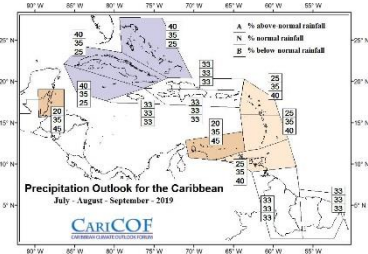
³Antigua and Barbuda Meteorological Services



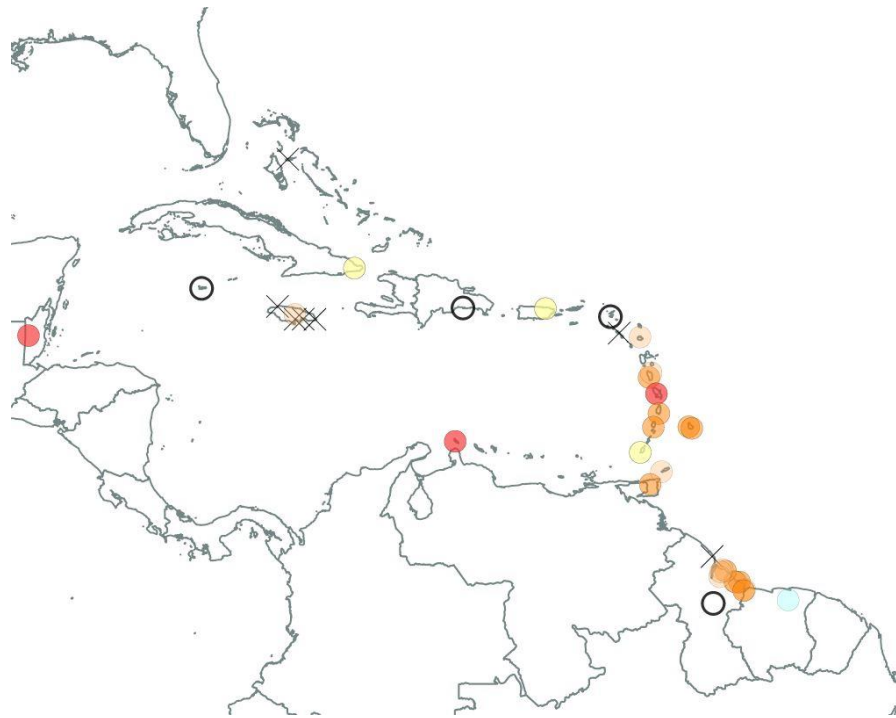
Wet day frequency shifts

Forecast for: July to September 2019

Precipitation outlook



JAS 2019
Frequency of wet days



USUALLY: Out of 92 days in Jul-Aug-Sep, there are about 35 to 59 wet days in relatively flat areas of Belize and the islands, but 50 to 65 in mountainous areas and in coastal Guianas (ABC Islands: 5-15).

FORECAST: JAS rainfall may be drier than usual in the ABC Islands, Belize and the Lesser Antilles. The forecast indicates about 10% fewer wet days especially in those areas and in Guyana (*medium to high confidence*), but not much change in other areas (*low confid.*).

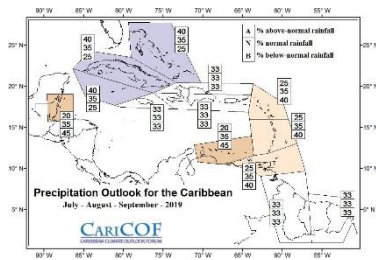
IMPLICATIONS:

- Surface wetness increasing slower than usual into the wet season for much of the region.
- Less reliable rains for agriculture than usual for the ABC Isls., Barbados, Belize, the Windward Islands and Guyana.

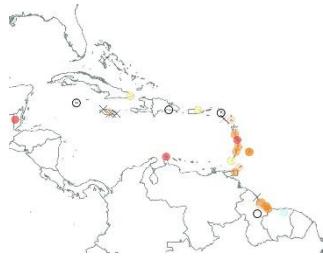
Wet spells frequency shifts

Forecast for: July to September 2019

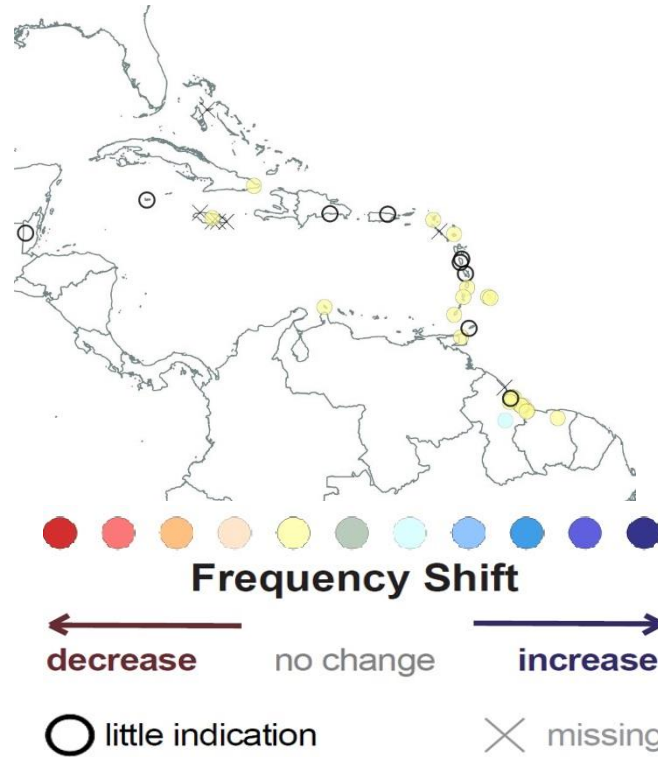
Precipitation outlook



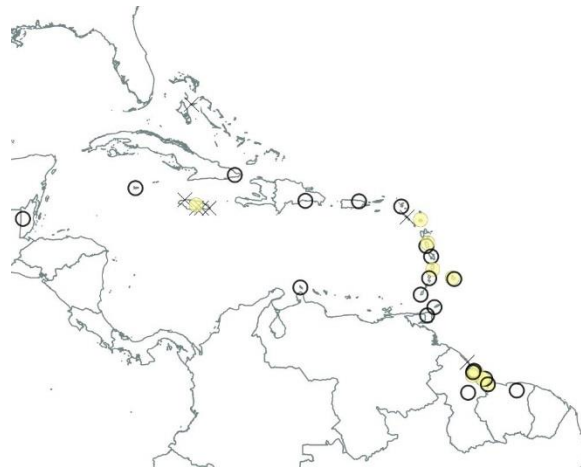
Wet days outlook



JAS 2019 frequency of 7-day wet spells



JAS 2019 frequency of 7-day very wet spells



USUALLY: 3 to 6 wet spells (ABC Islands: up to 3) occur from July to September, with 1 to 3 of them ending up very wet (ABC Islands: up to 2).

FORECAST: JAS rainfall may be drier than usual in the ABC Islands, Belize and the Lesser Antilles. The forecast indicates about 10% fewer wet days especially in those areas and in Guyana (medium to high confidence) and possibly slightly fewer wet spells and very wet spells (*low confid.*), but not much change in other areas (*low confid.*).

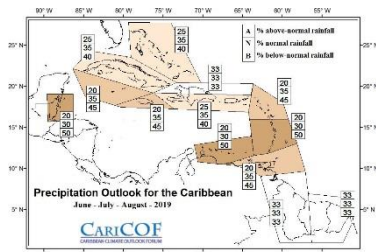
IMPLICATIONS:

- Potentially delayed recharge of large water reservoirs and soil moisture in most of the islands with the possible exception of Guyana
- A reduced concern of flood potential across most of the region

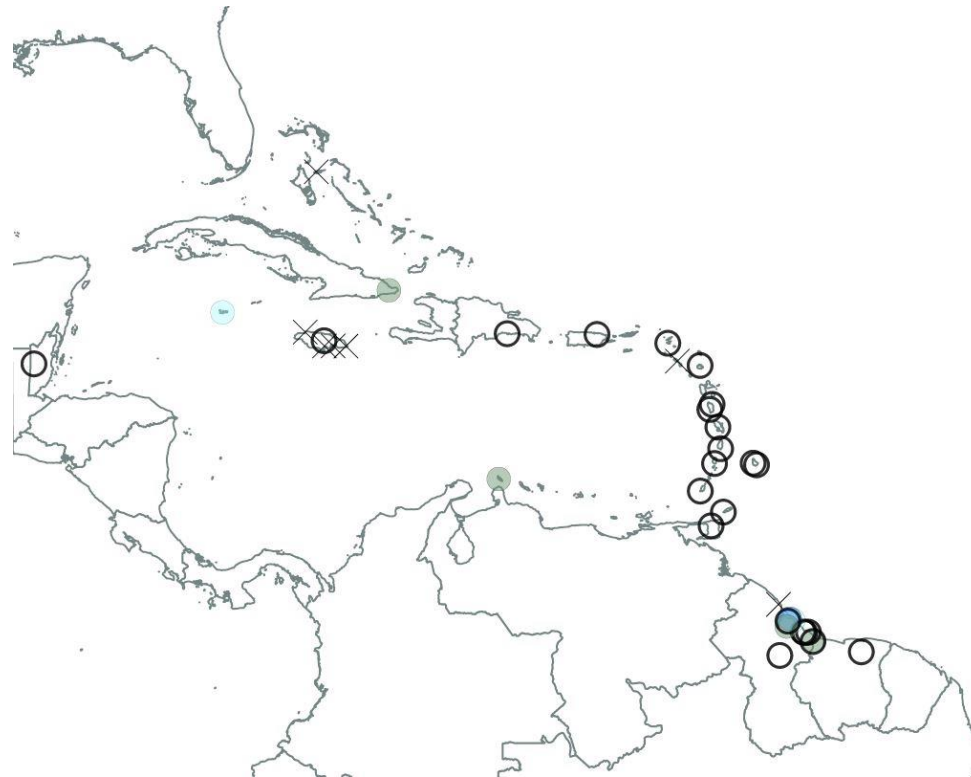
Extreme wet spells frequency shifts

Forecast for: July to September 2019

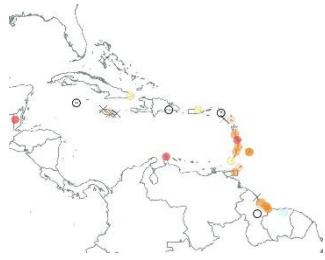
Precipitation outlook



JJA 2019 frequency of *extreme (top 1%) 3-day wet spells*



Wet days outlook



Wet spells outlook



Very wet spells outlook



USUALLY: Up to 1 extreme wet spells occur between July to September in most places, but up to 2 in mountainous areas.

FORECAST: JAS rainfall may be drier than usual in the ABC Islands, Belize and the Lesser Antilles. The forecast indicates about 10% fewer wet days especially in those areas and in Guyana (medium to high confidence) and possibly slightly fewer wet spells and very wet spells (*low confid.*), but not much change in other areas (*low confid.*). **No significant change in the number of extreme wet spells is forecast for most areas (*low confid.*)**

IMPLICATION:

Flash flood potential is expected to be of some concern throughout the period, particularly towards September.

July to September 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)	29-41	27-41	2.6-4.9	2.3-4.9	0.9-3	0.8-3.1	0-1	0-1.3
Aruba (Beatrix)	6-17	3-14	1.2-3.9	0.8-4.2	0.4-2.1	0.2-2.2	0-0.9	0-0
Barbados (CIMH)	37-48	31-46	3.4-6.4	3.1-6.3	1.4-3.2	1.4-3.5	0-1	0-1.2
Barbados (GAIA)	39-49	35-48	3.9-6.2	3.6-6.3	1.6-3.9	1.2-3.8	0-1	0-1.5
Belize (C. Farm)	37-49	29-46	2.8-5.6	2.9-6.1	1.3-3.4	1.3-3.6	0-1.1	0-1.4
Cayman	31-44	26-47	3.4-6.2	3.3-6.6	1.2-3.4	1.1-3.8	0-1	0-0.9
Cuba (Punta Maisi)	10-18	9-19	1.4-3.9	1.1-3.9	0.4-1.7	0.1-1.7	0-1	0-0.2
Dom. Republic (Las Americas)	24-34	21-34	3-5.1	2.7-5.3	1.7-3.3	1.2-3.3	0-1	0-1.3
Dominica (Canefield)	52-64	46-62	3.7-7.2	3.5-7.5	1.8-5.4	1.4-5.2	0-2.5	0-2.3
Dominica (Douglas Charles)	56-69	53-70	2.9-6.6	2.4-6.3	0.9-3.2	0.8-3.5	0-1	0-1.1
Grenada (MBIA)	39-48	35-52	3.9-6.4	3.1-6.3	1.7-3.6	1.3-4	0-2	0-1.6
Guyana_73	17-26	14-25	1.7-4.1	1.3-4.4	0.4-2.4	0.4-2.4	0-0.1	0-0.1
Guyana (Albion)	26-41	20-39	2.1-4.8	2-4.8	0.9-3	0.8-2.7	0-1	0-0.9
Guyana (Blairmont)	32-46	28-43	2.1-5.1	1.8-5.2	0.7-2.6	0.8-2.6	0-1	0-0.9
Guyana (Enmore)								
Guyana (Georgetown)	27-42	20-40	1.7-4.3	1.4-4.3	0.4-2.7	0.3-2.5	0-1	0-0.8
Guyana (Greatfall)	35-51	29-51	1.7-4.3	1.5-4.1	0.4-2.5	0.6-2.3	0-1	0-0.5
Guyana (New Amsterdam)								
Guyana (Skeldon)	31-44	28-43	1.8-4.7	1.7-4.5	0.7-2.6	0.5-2.5	0-1	0-0.8
Guyana (Timehri)	32-38	27-38	2.1-3.9	1.5-3.9	0.7-2.6	0.6-2.5	0-1	0-1.3
Guyana_Wales	45-58	40-57	2.1-4.7	2-4.7	0.9-2.6	0.7-2.3	0-1	0-0.4
Jamaica (Worthy Park)	39-52	36-51	2.1-4.3	2-4.7	0.9-2.6	0.7-2.6	0-0.8	0-0.5
Martinique (FDF Desaix)	28-42	25-41	2.6-5.6	2.4-5.4	0.9-3	0.8-3.1	0-2	0-1.5
Puerto Rico (San Juan)	53-64	47-61	3.9-7	3.4-6.8	1.7-3.7	1.3-3.4	0-1.4	0-1.6
St. Lucia (Hewanorra)	36-50	33-53	2.7-5.4	2.5-5.8	0.9-3.2	0.8-3.4	0-1	0-1.3
St. Maarten (TNCM)	44-59	38-55	3.4-5.6	3.1-5.9	1.7-3.4	1.1-3.3	0-1.1	0-1.6
St. Vincent (ET Joshua)	33-49	30-52	2.2-5.7	2-5.3	0.9-3	0.7-2.8	0-1	0-1
Suriname (Zanderij)	56-65	50-65	3.4-5.5	3.1-5.7	1.3-3.3	1.3-3	0-1.1	0-1.4
Tobago (ANR Robinson)	36-51	35-54	1.9-3.4	1.7-3.6	0.7-1.7	0.6-2.6	0-1	0-1.4
Trinidad (Piarco)	47-59	45-57	4-6.4	3.6-6.4	1.5-3.4	1.5-3.3	0-1	0-1.3

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



CARICOF
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