

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks June to August 2019

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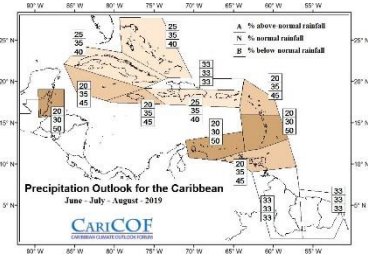
³Antigua and Barbuda Meteorological Services



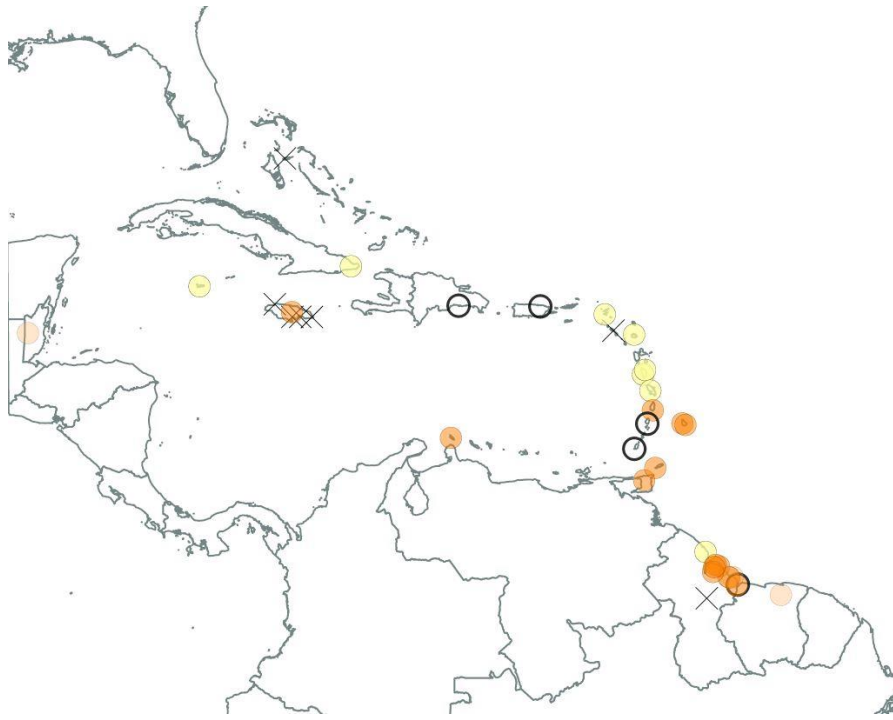
Wet day frequency shifts

Forecast for: June to August 2019

Precipitation outlook



JJA 2019
Frequency of wet days



USUALLY: Out of 92 days in June-July-August, there are about 30 to 45 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: JJA rainfall may be drier than usual across the region. The forecast indicates fewer wet days throughout the region (*medium confidence*).

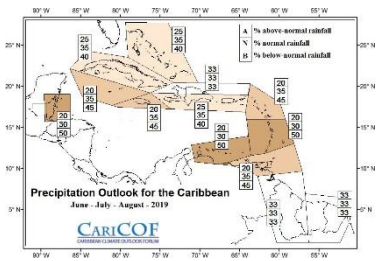
IMPLICATIONS:

- Frequency of outdoor activity disruptions due to rainfall should be lower than in most years for the summer months.
- Wild fire potential decreasing slower than usual in this part of the wet season.

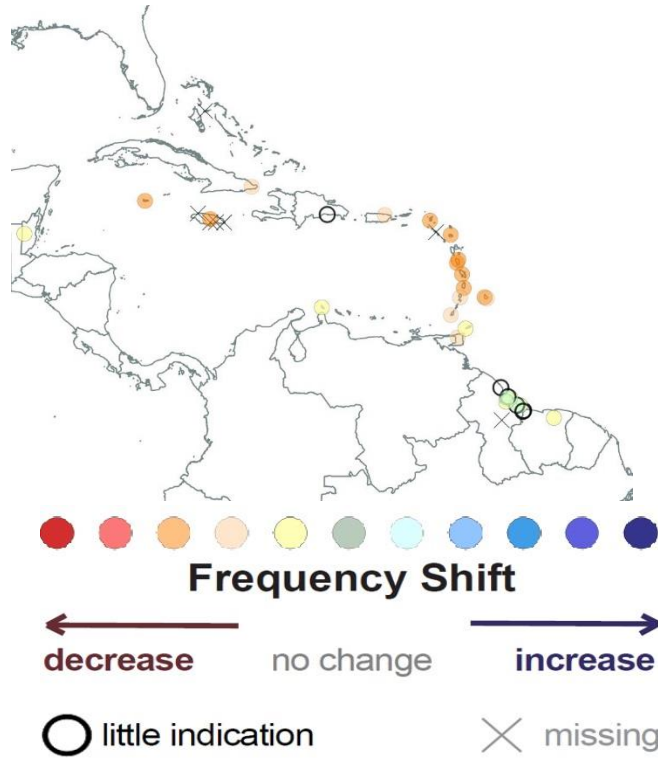
Wet spells frequency shifts

Forecast for: June to August 2019

Precipitation outlook



JJA 2019 frequency of 7-day wet spells



JJA 2019 frequency of 7-day very wet spells



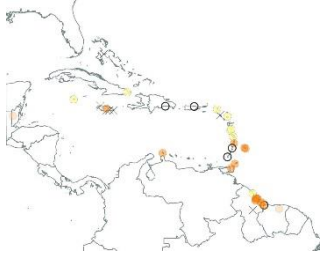
USUALLY: 3 to 6 wet spells (ABC Islands: up to 3) occur from June to August, with 1 to 3 of them ending up very wet (ABC Islands: up to 2).

FORECAST: JJA rainfall may be drier than usual across the region. The forecast indicates fewer wet days throughout the region (*medium confidence*) along with fewer wet spells and very wet spells in the islands (*med confid.*), except a slight increase in very wet spells in Puerto Rico, USVI, and the Guianas (*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

Wet days outlook



Extreme wet spells frequency shifts

Forecast for: June to August 2019

USUALLY: Up to 1 extreme wet spell occur between June to August (ABC Islands: up to 1).

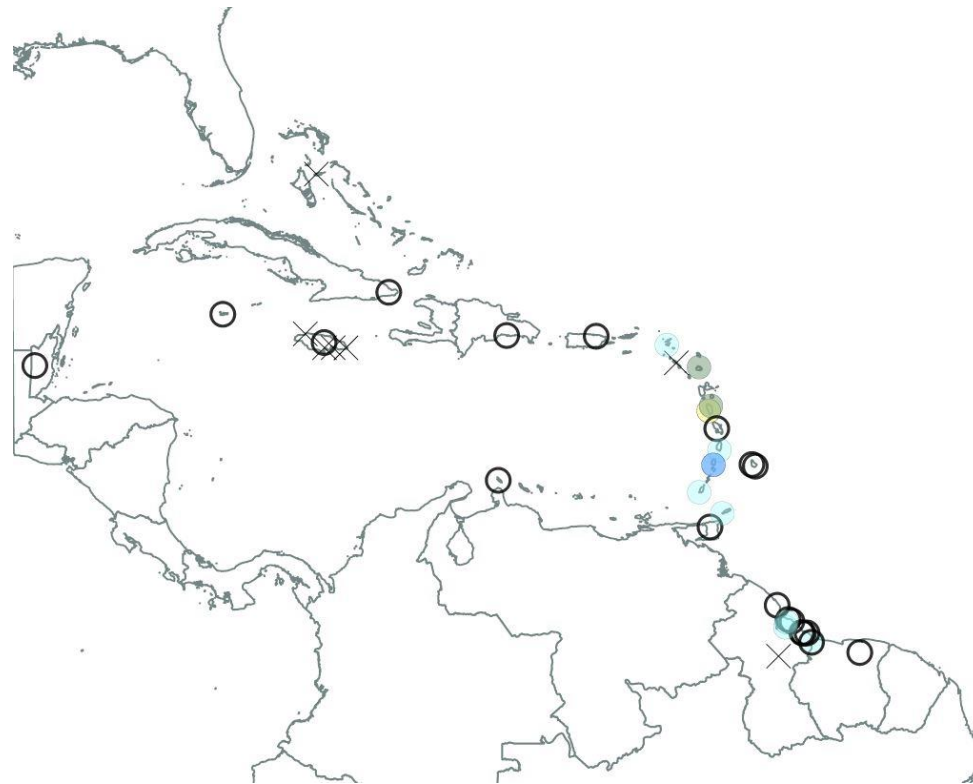
FORECAST: JJA rainfall may be drier than usual across the region (*medium confidence*) along with fewer wet spells and very wet spells in the islands (*med confid.*), except a slight increase in very wet spells in Puerto Rico, USVI, and the Guianas (*low to medium confid.*).

No significant change in the number of extreme wet spells is forecast for most areas (*low to medium confid.*).

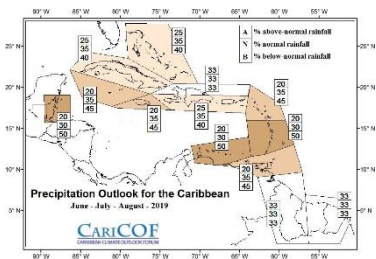
IMPLICATION:

Flash flood potential is expected to be of some concern throughout the period.

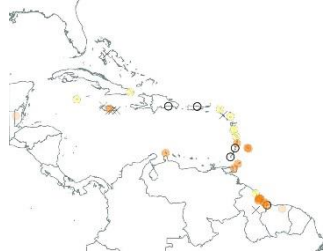
JJA 2019 frequency of extreme (top 1%) 3-day wet spells



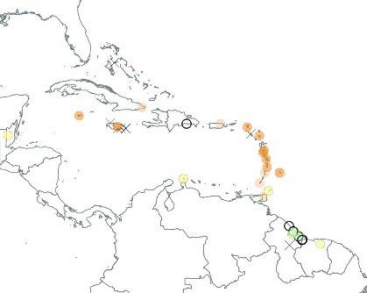
Precipitation outlook



Wet days outlook



Wet spells outlook



Very wet spells outlook



June to August 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)	26-41	25-38	1.8-4.7	1.4-3.8	0.9-2.9	0.5-2.6	0-0.9	0-0.2
Aruba (Beatrix)	6-16	4-16	0.4-3.4	0.1-3.5	0-2.1	0-1.4	0-0.4	0-0.1
Barbados (CIMH)	34-49	31-46	2.6-6.4	2.1-5.2	0.9-3	0.8-3.3	0-1	0-1
Barbados (GAIA)	36-47	34-46	3-5.4	2.7-5.2	0.9-2.6	0.7-3	0-1	0-1.2
Belize (C. Farm)	33-49	31-48	2.6-5.5	2.2-5.9	1.3-3.4	0.7-3.1	0-1.5	0-1.7
Cayman	27-40	24-41	2.9-5.7	2-5.2	0.9-3.4	0.7-3.9	0-1	0-1.1
Cuba (Punta Maisi)	7-15	6-14	0.9-3.4	0.7-2.8	0-1.3	0-1.5	0-0.5	0-0
Dom. Republic (Las Americas)	19-33	20-35	1.8-4.8	1.5-4.6	0.6-2.9	0.4-3	0-1	0-0.8
Dominica (Canefield)	49-66	46-67	3.9-6.6	3.2-6.3	1.7-4.5	1-4.8	0-1.3	0-1.4
Dominica (Douglas Charles)	53-68	52-70	2.2-5.6	1.6-4.7	0.9-2.8	0.6-3.1	0-0	0-0
Grenada (MBIA)	41-51	39-53	3.9-6.3	3.2-6	1.7-3.6	0.9-3.8	0-1	0-1.7
Guyana_73	25-35	24-37	3.3-5.6	3-6.1	1.3-3.2	0.9-4.4	0-1	0-1.3
Guyana (Albion)	37-52	34-52	3.4-6.6	3.2-6.4	1.7-3.7	1.3-3.6	0-1.1	0-1.7
Guyana (Blairmont)	44-60	42-59	3.5-6.9	3.3-7.9	1.4-3.9	1.4-4.4	0-1	0-2
Guyana (Charity)								
Guyana (Enmore)	41-57	36-54	3-6	2.6-6.1	1-3.4	0.5-3.3	0-1.1	0-1.2
Guyana (Georgetown)	51-63	45-61	3.2-5.6	2.9-6.5	1.3-3	1.3-4	0-1	0-1.2
Guyana (Greatfall)								
Guyana (New Amsterdam)	46-60	41-56	3.8-6.2	3.2-7.1	1.3-3.3	1-3.6	0-1	0-1.3
Guyana (Skeldon)	45-52	42-52	3.1-5.9	2.6-6.4	1.2-3.9	0.6-3.7	0-1.9	0-1.7
Guyana (Timehri)	55-68	52-66	3.4-5.9	3-6	1.3-3.6	0.7-3.3	0-1	0-1.5
Guyana_Wales	51-64	48-62	3.5-6	3.5-7	1-3.3	1.2-5.4	0-1.9	0-1.8
Jamaica (Worthy Park)	24-38	20-37	2.1-4.7	1.6-4.5	0.9-3	0.6-2.9	0-1	0-1.5
Martinique (FDF Desaix)	51-63	48-65	3-6	2.8-5.2	1.3-3	0.5-2.4	0-1	0-1.5
Puerto Rico (San Juan)	31-49	30-53	2.5-5.5	2-4.9	1.2-3	0.9-3.9	0-1	0-0.9
St. Lucia (Hewanorra)	40-57	37-53	2.9-5.6	2.4-5.1	0.9-2.6	0.8-3.6	0-1	0-0.6
St. Maarten (TNM)	29-45	25-47	1.7-4.7	1.2-3.7	0.4-2.6	0.4-3.4	0-1	0-0.7
St. Vincent (ET Joshua)	55-67	52-69	3.1-5.5	2.5-5.5	1-3	0.7-3.6	0-1.1	0-1.5



brown is a decrease in frequency,

dark blue an increase,

grey none are expected



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