

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks July to September 2020

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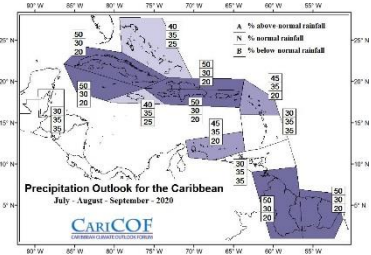
³Antigua and Barbuda Meteorological Services



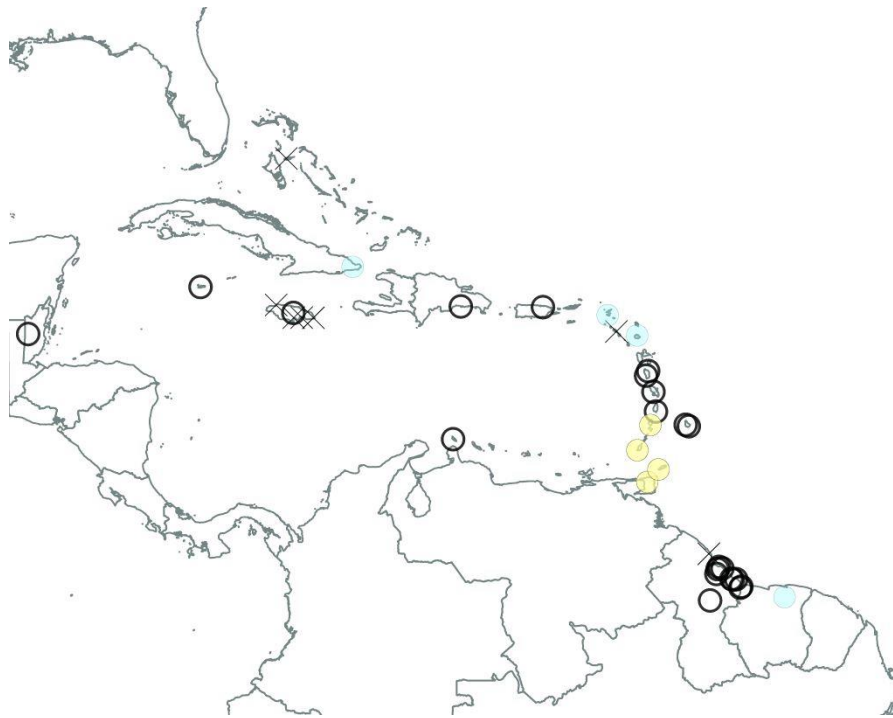
Wet day frequency shifts

Forecast for: July to September 2020

Precipitation outlook



JAS 2020
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 Belize and the windward islands, with slightly fewer wet days than usual (*low confidence*), but wetter than the usual in most other places, with little change in wet days from the usual (*low confidence*).

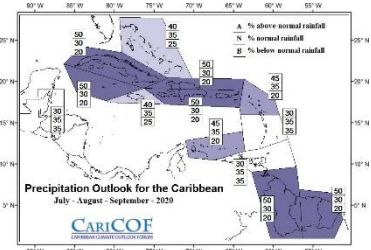
IMPLICATIONS:

- Frequent rainfall-related disruptions of outdoor activities and generally favourable conditions for moisture-related pests and diseases in Belize and the islands.
- Progressively fewer disruptions of outdoor activities and drier conditions in the Guianas from August onwards.

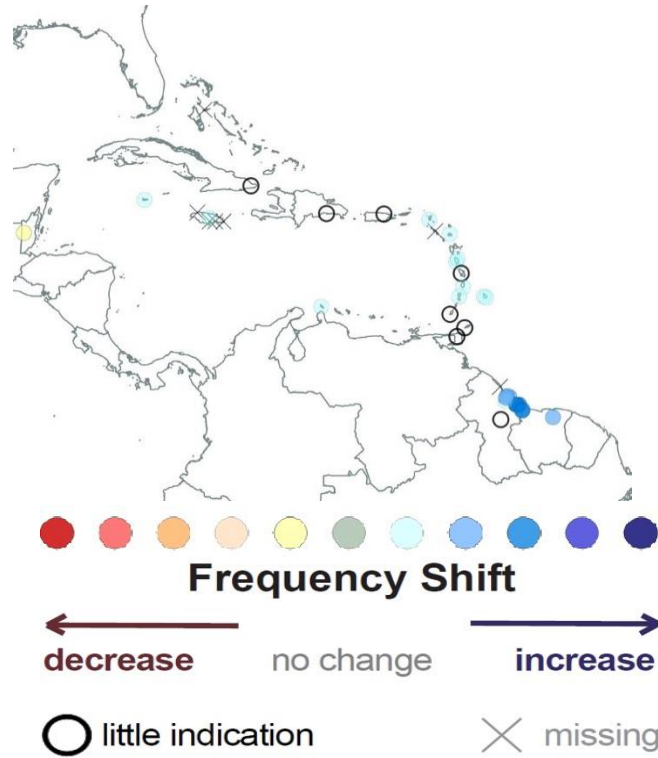
Wet spells frequency shifts

Forecast for: July to September 2020

Precipitation outlook



JAS 2020 frequency of 7-day wet spells



JAS 2020 frequency of 7-day very wet spells



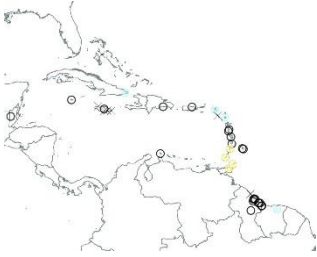
USUALLY: 3 to 6 wet spells (ABC Islands: up to 3) occur from July to September, with 1 to 3 of them ending up very wet (ABC Islands: up to 2).

FORECAST: JAS rainfall may be drier than usual in Belize and the windward islands, with slightly fewer wet days than usual (*low confid.*), but wetter than the usual in most other places, with little change in wet days from the usual (*low confid.*), **but slightly more wet spells than usual (*low to medium confid.*)**, of which a larger proportion than usual may end up **very wet (*medium to high confid.*)**.

IMPLICATIONS:

- **Potentially faster recharge of water reservoirs related to an increase in wet spells in Belize and the Islands.**
- **Increasingly high flooding potential in the Islands towards September.**

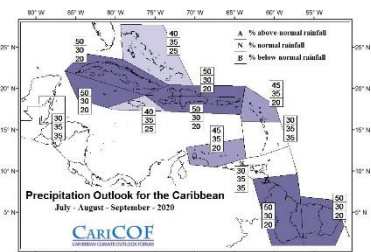
Wet days outlook



Extreme wet spells frequency shifts

Forecast for: July to September 2020

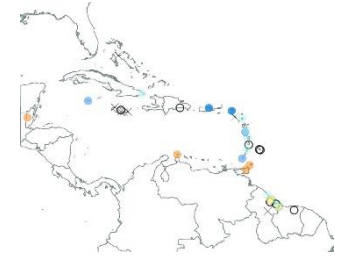
Precipitation outlook



JAS 2020 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 Belize and the windward islands, with slightly fewer wet days than usual (*low confid.*), but wetter than the usual in most other places, with little change in wet days from the usual (*low confid.*), but slightly more wet spells than usual (*low to medium confid.*), of which a larger proportion than usual may end up very wet (*medium to high confid.*).

A slight increase in the number of extreme wet spells is forecast for most Caribbean Islands (*low to medium confid.*).

IMPLICATION:

- Increasingly high flash flood potential and land slide potential in Belize and the islands towards Sept., but decreasing towards Sept. in the Guianas.

July to September 2020

	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)	29-42	31-45	2.6-5.1	2.8-5.6	0.9-3	1.2-4.3	0-1	0-1.6
Aruba (Beatrix)	6-17	6-21	1.2-4.2	1-4.9	0.4-2.4	0.6-3.2	0-1	0-0.9
Barbados (CIMH)	37-49	36-49	3.4-6.4	3.7-7	1.4-3.4	1.7-4.3	0-1	0-1.3
Barbados (GAIA)	39-49	38-50	3.9-6.4	3.9-6.9	1.6-3.9	1.3-4.3	0-1	0-1.6
Belize (C. Farm)	37-49	34-50	2.9-5.6	2.8-5.9	1.3-3.4	1.1-3.6	0-1.1	0-1.4
Cayman	31-45	29-46	3.4-6.2	3.5-6.9	1.2-3.4	1.4-4.5	0-1	0-1.2
Cuba (Punta Maisi)	10-18	11-20	1.4-4	1.3-4.4	0.4-1.9	0.4-2.1	0-1	0-0.8
Dom. Republic (Las Americas)	24-35	26-38	3.1-5.1	3.1-6.2	1.7-3.7	1.9-4.8	0-1.6	0-2.6
Dominica (Canefield)	52-64	51-65	3.7-7.4	3.6-7.9	1.8-5.3	1.4-5.5	0-2.5	0-2.3
Dominica (Douglas Charles)	57-70	57-73	2.9-6.8	2.8-7.1	0.9-3.4	1-4.5	0-1	0-1.1
Grenada (MBIA)	39-48	36-50	3.9-6.4	3.4-6.4	1.7-3.6	1.5-4.7	0-2	0-1.9
Guyana_73	17-26	16-27	1.7-4	1.8-5.4	0.4-2.5	0.8-3.6	0-0.1	0-0.2
Guyana (Albion)	26-42	26-43	2.1-5	2.8-6.2	1-3	1.1-3.6	0-1	0-1.1
Guyana (Blairmont)	32-46	32-47	2.1-5.1	2.5-6.6	0.8-2.6	1.1-3.6	0-1	0-1
Guyana (Charity)								
Guyana (Enmore)	27-42	25-45	1.7-4.3	2-5.5	0.4-2.7	1-3.9	0-1	0-0.8
Guyana (Georgetown)	35-51	33-52	1.7-4.3	2-5.2	0.4-2.6	0.8-3.2	0-1	0-0.3
Guyana (Greatfall)								
Guyana (New Amsterdam)	31-44	31-45	1.8-5	2.3-5.9	0.8-2.5	1.1-3.6	0-1	0-0.7
Guyana (Skeldon)	32-38	31-40	2.1-4	2.1-4.9	0.8-2.6	0.9-3.5	0-1	0-1.7
Guyana (Timehri)	45-58	44-59	2.1-4.7	2.4-5.4	0.9-2.6	1.1-3.5	0-1	0-0.6
Guyana_Wales	39-52	39-52	2.1-4.3	2.4-5.5	0.9-2.6	0.8-3.4	0-0.9	0-0.8
Jamaica (Worthy Park)	29-43	29-44	2.6-5.6	2.8-6.2	0.9-3.2	1.3-4.5	0-2	0-2.1
Martinique (FDF Desaix)	53-64	52-65	3.9-7.2	3.5-6.9	1.7-3.8	1.4-4	0-1.3	0-1.8
Puerto Rico (San Juan)	36-50	37-53	2.8-5.5	2.6-6.1	0.9-3.2	1.1-4.2	0-1	0-1.4
St. Lucia (Hewanorra)	44-59	43-59	3.4-5.6	3.4-6.6	1.7-3.4	1.4-3.9	0-1.1	0-1.7
St. Maarten (TNM)	33-49	32-50	2.2-5.7	2.4-5.8	0.9-2.9	0.9-3.4	0-1	0-1.2
St. Vincent (ET Joshua)	56-65	53-66	3.4-5.6	3.4-6	1.3-3.4	1.5-3.6	0-1.1	0-1.4

grey none are expected

blue an increase,

brown is a decrease in frequency,



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