

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks September to November 2020

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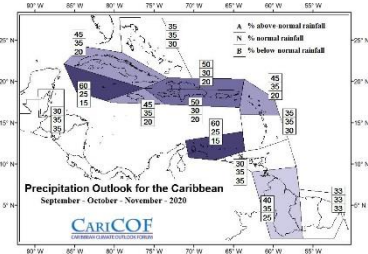
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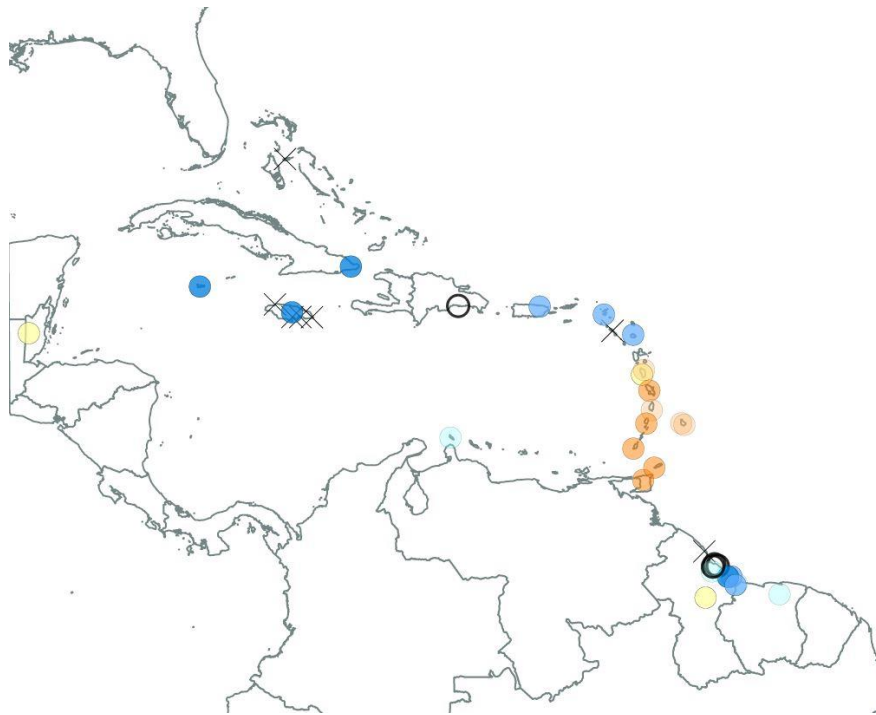
Wet day frequency shifts

Forecast for: September to November 2020

Precipitation outlook



SON 2020 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 may be wetter than usual across most of the region, with slightly more wet days than usual (*medium confidence*). By contrast slightly fewer wet days than usual are expected in Barbados, the Windward Islands, and Trinidad and Tobago (*medium confid.*).

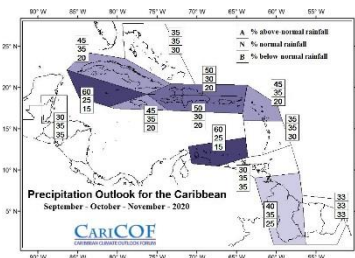
IMPLICATIONS:

- Frequent rainfall-related disruptions of outdoor activities and favourable conditions for moisture-related pests and diseases in Belize and the islands.
- Fewer disruptions of outdoor activities and drier conditions in the Guianas up until late November.

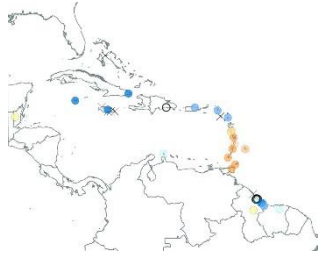
Wet spells frequency shifts

Forecast for: September to November 2020

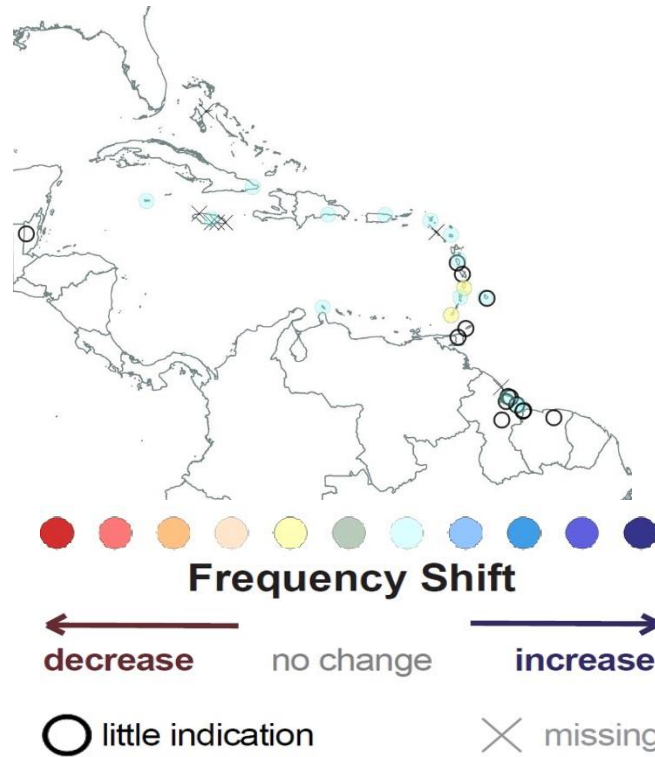
Precipitation outlook



Wet days outlook



SON 2020 frequency of 7-day wet spells



ASO 2020 frequency of 7-day very wet spells



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 may be wetter than usual across most of the region, with slightly more wet days and very wet spells than usual (medium confidence). By contrast slightly fewer wet days than usual are expected in Barbados, the Windward Islands, and Trinidad and Tobago (medium confid.). In addition a slight decrease in the number of very wet spells is expected for Trinidad and Tobago (*low to medium confid.*)

No large shifts compared to the usual frequency of wet spells are expected (*low confid.*).

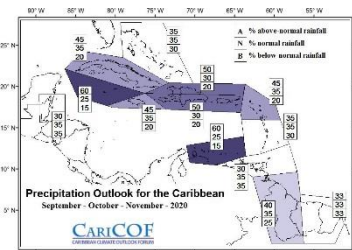
IMPLICATIONS:

- Usual recharge rates of water reservoirs related to frequent wet spells.
- High flooding potential across the region (except the Guianas), particularly in Belize, the Greater Antilles and the Leeward Islands.

Extreme wet spells frequency shifts

Forecast for: September to November 2020

Precipitation outlook



SON 2020 frequency of *extreme (top 1%) 3-day wet spells*



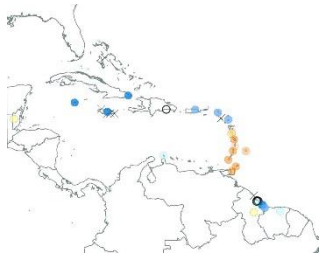
USUALLY: Up to 2 extreme wet spells occur from September to November, except in the Guianas where it is the dry season.

FORECAST: SON rainfall may be wetter than usual across most of the region, with slightly more wet days and very wet spells than usual (medium confidence). By contrast slightly fewer wet days than usual are expected in Barbados, the Windward Islands, and Trinidad and Tobago (medium confid.). In addition a slight decrease in the number of very wet spells is expected for Trinidad and Tobago (low to medium confid.) No large shifts compared to the usual frequency of wet spells are expected (low confid.). Similarly, an increase in the number of extreme wet spells is forecast for most Caribbean Islands (*medium confid.*).

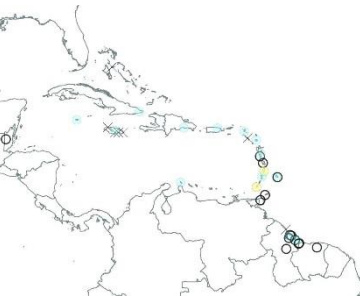
IMPLICATION:

- High flash flood potential, land slide potential and rainfall erosivity in Belize and the islands, but generally low in the Guianas until mid-November.

Wet days outlook



Wet spells outlook



Very wet spells outlook



September to November 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)		grey none are expected, blue an increase, brown is a decrease in frequency,
	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	
Antigua (VC Bird)	30-45	36-48	3.1-5.9	3.1-6.4	0.9-3.9	1.5-5	0-1.3	0-1.9	grey none are expected
Aruba (Beatrix)	8-22	8-25	1.7-5.4	2-6.5	0.4-3.4	1.1-4.6	0-1.8	0-2.3	
Barbados (CIMH)	37-50	36-52	4.2-7.2	4.2-7.5	2-4.3	2.1-4.8	0-2	0.4-2.7	
Barbados (GAIA)	39-49	39-51	4.4-6.9	4.6-7.1	1.8-4	2.1-4.8	0-1.8	0-2.4	grey none are expected
Belize (C. Farm)	33-50	30-51	3-6.3	3-6.2	1.3-3.8	1.2-3.9	0-2	0-2.4	
Cayman	34-46	36-52	4.3-6.8	4.3-7	1.7-4.3	1.6-5	0-2	0-2.2	
Cuba (Punta Maisi)	12-27	16-37	2.6-5.3	2.5-5.9	1-3.4	1.3-3.8	0-1.8	0-2.2	grey none are expected
Dom. Republic (Las Americas)	27-37	29-43	3.9-6.1	3.7-6.5	1.8-3.7	1.7-5.1	0-2	0.1-2.3	
Dominica (Canefield)	45-59	46-61	3.5-6.3	3.2-7.8	1.7-4.3	1.7-5.3	0-2.5	0-2.2	
Dominica (Douglas Charles)	58-70	58-74	3.5-6.9	3.5-7.4	1.7-3.9	1.8-4.7	0-1.1	0-1.5	grey none are expected
Grenada (MBIA)	37-47	35-48	3.9-6.4	3.3-6.9	1.3-3.8	1.5-4.6	0-1.5	0-2	
Guyana_73	10-21	8-21	0.8-2.9	0.7-3.5	0-1.8	0.3-2.2	0-0.9	0-0.2	
Guyana (Albion)	14-29	12-30	1.1-3.6	1.3-4.1	0.5-1.7	0.6-2.1	0-1	0-0.8	blue an increase,
Guyana (Blairmont)	18-32	17-31	0.9-3	0.9-3.3	0-1.3	0.3-1.6	0-0.1	0-0	
Guyana (Charity)									
Guyana (Enmore)	16-31	15-31	0.9-3	1-3.5	0.4-1.3	0.4-1.6	0-0.1	0-0.3	brown is a decrease in frequency,
Guyana (Georgetown)	21-38	18-34	0.5-2.6	0.9-3.1	0-1.4	0.1-1.5	0-0.3	0-0.1	
Guyana (Greatfall)									
Guyana (New Amsterdam)	20-30	18-32	0.4-3	0.9-3.3	0-1.3	0-1.6	0-0.1	0-0.1	brown is a decrease in frequency,
Guyana (Skeldon)	20-30	18-31	0.9-3	1.1-3.3	0.4-1.7	0.7-1.8	0-0.9	0-0.7	
Guyana (Timehri)	34-44	31-43	1.7-3.4	1.7-3.8	0.4-1.7	0.7-2.3	0-0	0-0	
Guyana_Wales	27-38	25-38	1.7-3	1.5-3.9	0.1-1.7	0.3-2.2	0-0.2	0-0.6	brown is a decrease in frequency,
Jamaica (Worthy Park)	31-48	35-55	3.4-6.4	3.4-6.9	1.4-3.9	1.7-4.8	0-2	0-3.1	
Martinique (FDF Desaix)	50-62	49-62	3.9-7.3	4-7.6	1.8-4.3	2-4.2	0-2	0-2.4	
Puerto Rico (San Juan)	39-51	40-54	3.3-5.6	2.7-6.2	0.9-3	1.4-3.8	0-1	0-1.5	brown is a decrease in frequency,
St. Lucia (Hewanorra)	44-58	43-56	3.9-6.4	3.6-7.5	2-3.9	1.7-4.7	0-2	0-1.8	
St. Maarten (TNCM)	35-50	38-56	2.8-5.7	2.9-6.8	1-3.4	1.2-3.6	0-1.3	0-2.3	
St. Vincent (ET Joshua)	53-63	50-63	3.3-6.9	3.4-7.6	1.6-3.6	1.9-3.9	0-2	0-2.3	



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