

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks August to October 2018

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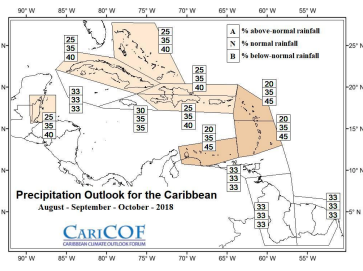
³Antigua and Barbuda Meteorological Services



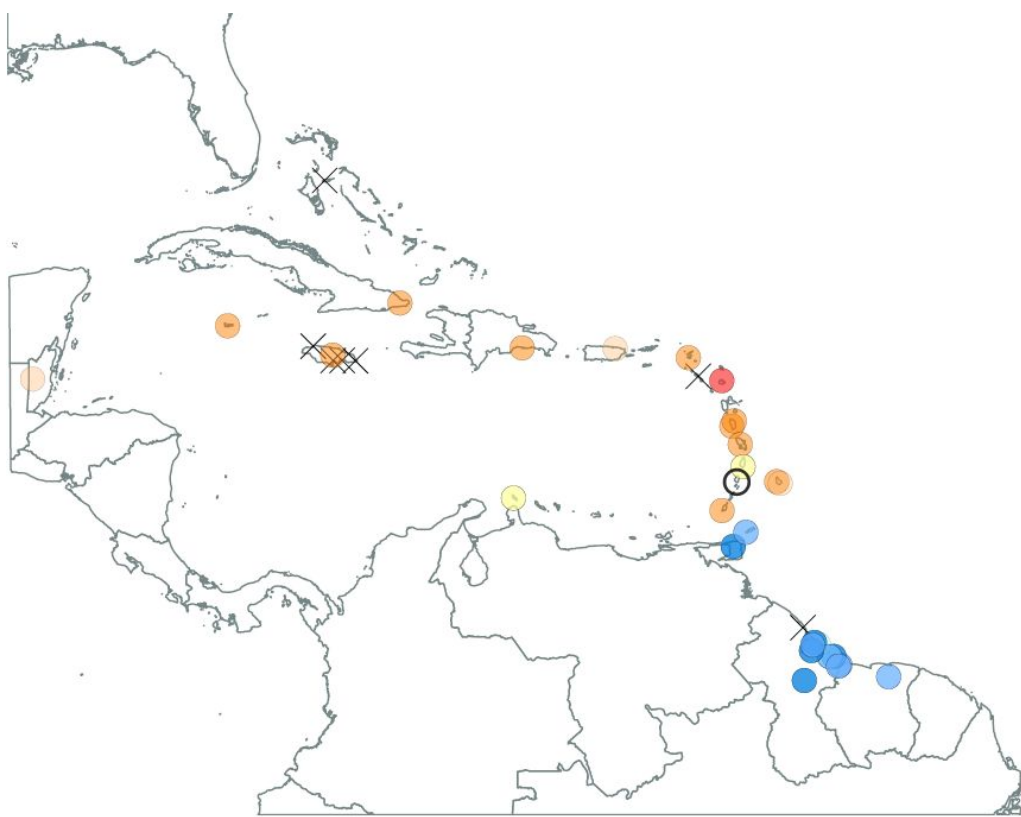
Wet day frequency shifts

Forecast for: August to October 2018

Precipitation outlook



ASO 2018 Frequency of wet days



USUALLY: Out of 92 days in Aug-Sep-Oct, there are about 35 to 50 wet days in relatively flat areas of Belize and the islands, but 15 to 30 in mountainous areas and in coastal Guianas (ABC Islands: 10-20).

FORECAST: ASO rainfall may be drier than usual with fewer wet days across the region except for the Guianas and Trinidad & Tobago, where an increase in numbers of wet days is forecast (*medium confidence*).

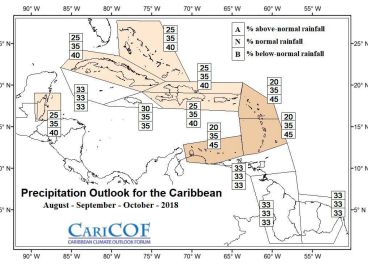
IMPLICATIONS:

- Surface wetness increasing slower than usual in Belize and most of the Antilles.
- Less reliable rains than usual for agriculture except in Guianas and Trinidad & Tobago.
- Frequency of rainfall disruptions of outdoor activities peaking in October except in Guianas.

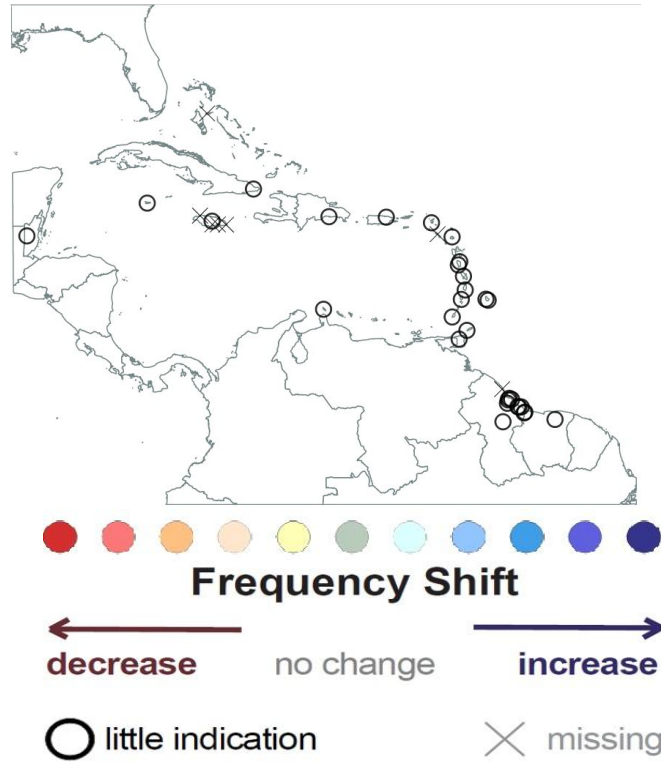
Wet spells frequency shifts

Forecast for: August to October 2018

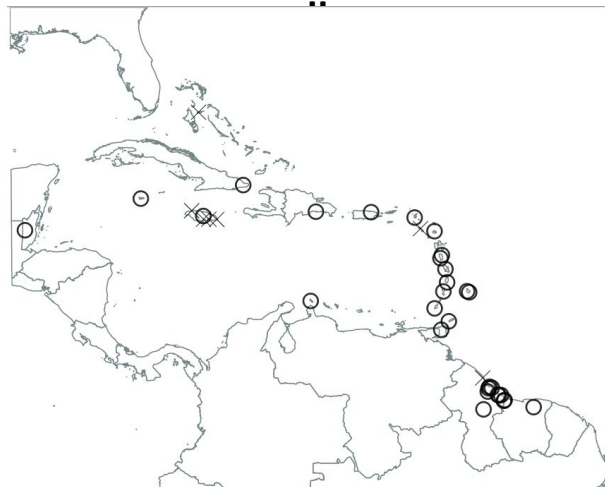
Precipitation outlook



ASO 2018 frequency of 7-day wet spells



ASO 2018 frequency of 7-day very wet



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

FORECAST: ASO rainfall may be drier than usual with fewer wet days across the region except for the Guianas and Trinidad & Tobago, where an increase in numbers of wet days is forecast (*medium confidence*). However, the forecast does not indicate any significant change from the usual number of wet spells and very wet spells (*low confid.*).

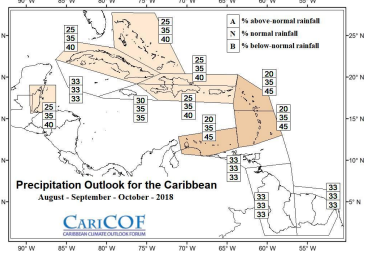
IMPLICATIONS:

- Recharge rates of large water reservoirs associated with the wet season potentially slower than usual.
- Long-term flooding potential associated with the peak season for wet spells.

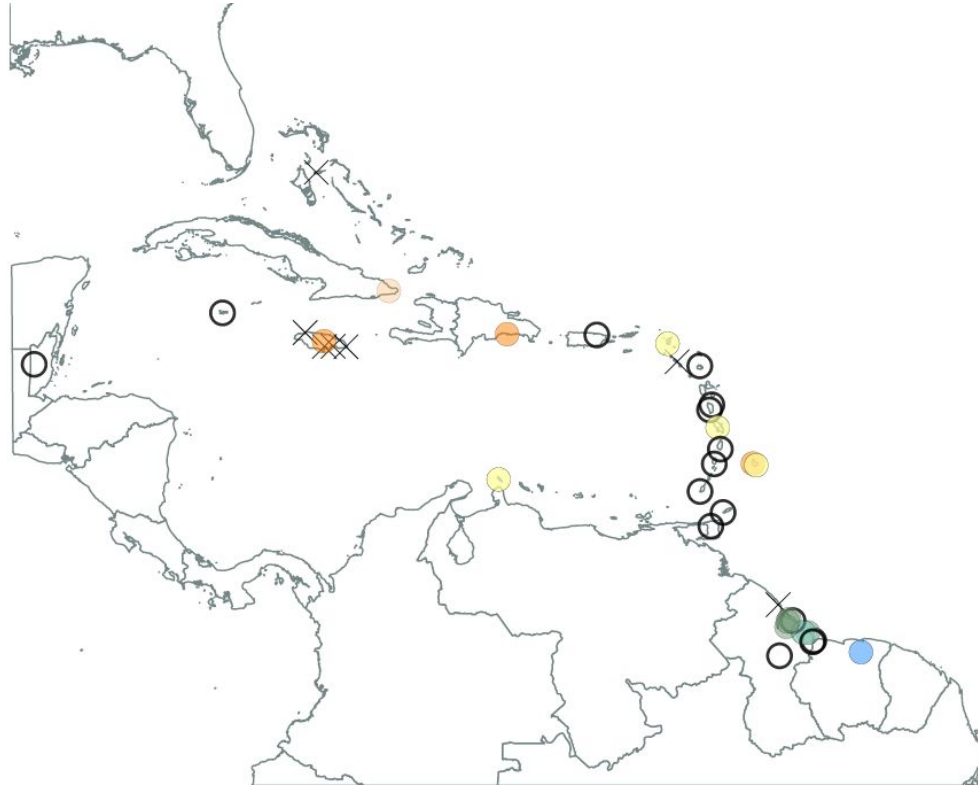
Extreme wet spells frequency shifts

Forecast for: August to October 2018

Precipitation outlook



ASO 2018 frequency of extreme (top 1%) 3-day wet spells

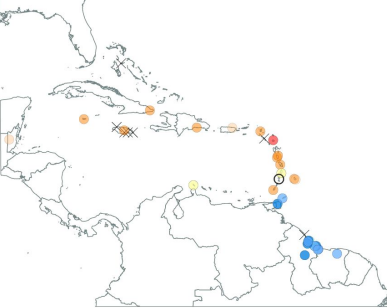


USUALLY: Up to 2 extreme wet spell occur between August to October, except in the Guianas where it is the dry season.

FORECAST: ASO rainfall may be drier than usual with fewer wet days across the region except for the Guianas and Trinidad & Tobago, where an increase in numbers of wet days is forecast (*medium confidence*). However, the forecast does not indicate any significant change from the usual number of wet spells, very wet spells and extreme wet spells (*low confid.*).

IMPLICATION: Flash flood potential is a concern across the region, though reduced in the Guianas which are entering their dry season.

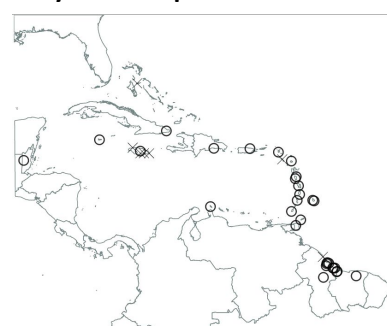
Wet days outlook



Wet spells outlook



Very wet spells outlook



August to October 2018

	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)	31-45	28-39	3-6	2.8-5.9	0.9-3.9	1.2-4	0-1
Aruba (Beatrix)	9-21	7-23	1.7-5.1	1.6-5.4	0.4-3.4	0.7-3.8	0-2	0-1.1
Barbados (CIMH)	37-50	33-47	4.3-6.9	4.1-6.9	2.1-4.3	2-4.3	0-2	0-1.5
Barbados (GAIA)	40-49	37-49	4.3-6.9	4.4-6.5	1.7-3.9	2-4.2	0-2	0-1.6
Belize (C. Farm)	34-50	30-49	3-6.4	3-6	1.3-3.9	1.2-3.7	0-2	0-1.8
Cayman	35-46	31-44	4.3-6.9	4.2-6.7	1.7-4.3	1.7-4.7	0-2	0-1.6
Cuba (Punta Maisi)	12-27	10-24	2.6-5.1	2.3-5.3	0.9-3.4	1.2-3.3	0-2	0-1.4
Dom. Republic (Las Americas)	27-37	24-36	3.9-6	3.6-6.1	1.8-3.6	1.5-4.4	0-2	0-1.3
Dominica (Canefield)	45-61	41-56	3.5-6.3	3.1-7	1.7-4.5	1.7-4.7	0-2.5	0-2.1
Dominica (Douglas Charles)	57-70	52-67	3.4-6.9	3.3-6.6	1.7-3.7	1.6-4	0-1	0-1.3
Grenada (MBIA)	37-47	34-45	3.9-6.2	3.4-6.6	1.3-3.9	1.4-4.2	0-1.4	0-1.2
Guyana_73	11-21	11-28	0.9-3	0.7-3.1	0-2.1	0.1-1.9	0-1	0-0.9
Guyana (Albion)	14-28	16-36	0.9-3.5	0.9-3.4	0.4-1.7	0.5-1.8	0-1	0-0
Guyana (Blairmont)	19-32	19-35	0.9-3	1-2.9	0-1.3	0.2-1.5	0-0	0-0.1
Guyana (Enmore)								
Guyana (Georgetown)	16-31	18-37	0.9-3	0.9-3.1	0.4-1.3	0.4-1.5	0-0	0-0.2
Guyana (Greatfall)	22-38	26-49	0.4-2.6	0.7-2.8	0-1.3	0-1.3	0-0	0-0
Guyana (New Amsterdam)	25-40	28-48	0.9-3	1.1-3.2	0.4-1.8	0.3-2	0-0.1	0-0.4
Guyana (Skeldon)	20-28	19-33	0.4-3	0.8-2.9	0-1.3	0-1.4	0-0.1	0-0.4
Guyana (Timehri)	21-31	20-34	0.9-3	1-3	0.4-1.7	0.6-1.7	0-1	0-0.6
Guyana_Wales	34-44	36-49	1.7-3.4	1.6-3.6	0.4-1.7	0.6-1.9	0-0	0-0
Jamaica (Worthy Park)	27-38	28-42	1.7-3	1.3-3.4	0.1-1.7	0.2-1.7	0-0.2	0-0
Martinique (FDF Desaix)	30-47	26-42	3.4-6.4	3.1-6.4	1.3-3.9	1.4-4.3	0-2	0-1
Puerto Rico (San Juan)	50-63	46-60	3.9-7.3	3.8-7	1.7-4.3	1.9-4.4	0-2	0-1.8
St. Lucia (Hewanorra)	39-51	36-48	3.4-5.6	2.7-5.6	0.9-3	1.3-3.4	0-1	0-1.3
St. Maarten (TNM)	44-58	41-55	3.9-6.4	3.5-6.8	2.1-3.9	1.6-4.7	0-2	0-1.6
St. Vincent (ET Joshua)	34-49	31-47	2.6-5.6	2.6-6.3	0.9-3.4	1.1-3.6	0-1	0-1.1
Suriname (Zanderij)	53-63	53-65	3.4-6.9	3.3-6.8	1.7-3.4	1.7-4	0-2	0-1.7
Tobago (ANR Robinson)	25-42	26-45	0.9-3.4	0.8-3	0.4-2.1	0.2-1.8	0-0.1	0-0.3
Trinidad (Piarco)	44-55	45-60	3.9-5.6	3.4-6	1.3-3.4	1.2-3.8	0-1	0-1.4

grey none are expected

dark blue an increase,

brown is a decrease in frequency,



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