

Rainfall frequency and extreme forecasts

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wet days and wet spells outlooks

September to November 2016

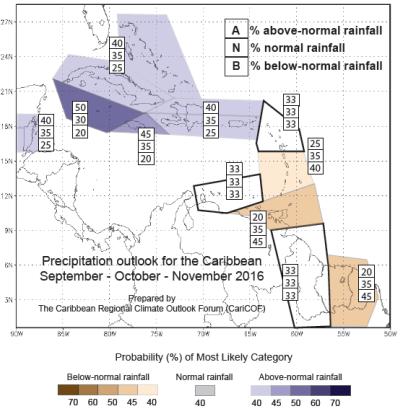
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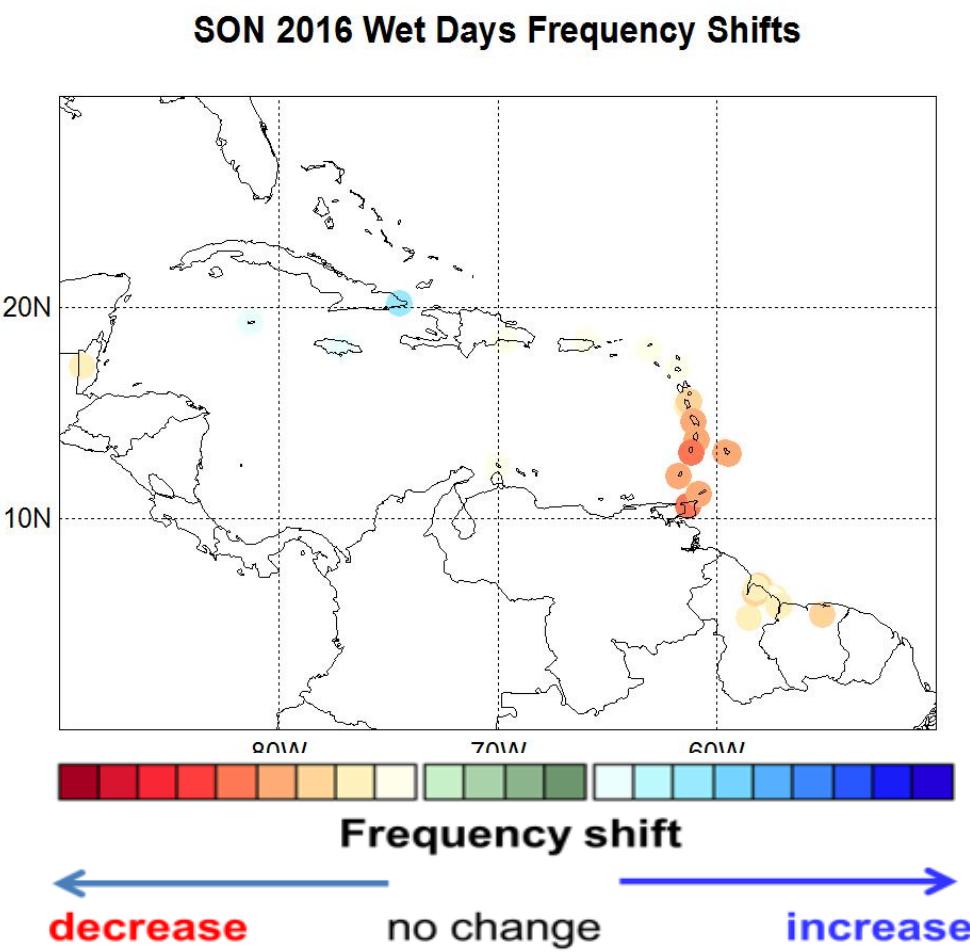
³Antigua and Barbuda Meteorological Services





Wet day frequency shifts

Forecast for: September to November 2016

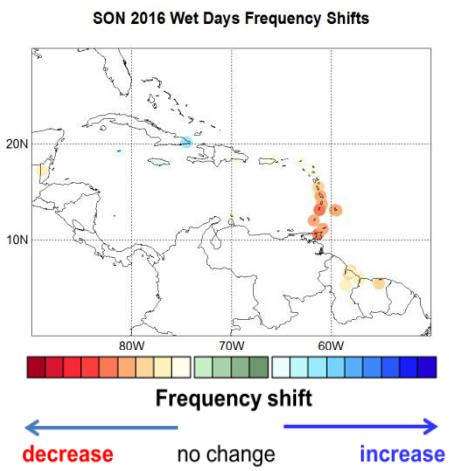
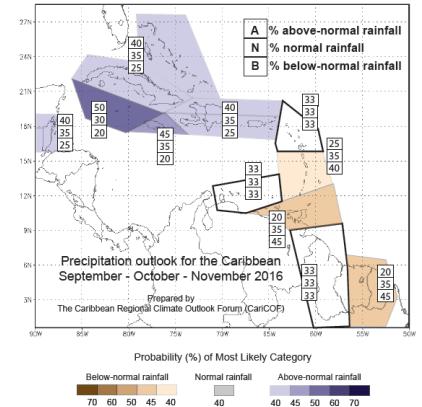


USUALLY: Across the region during September-October-November, about 35 to 50 days are wet days, except in Guianas, with 20 to 30 wet days.

FORECAST: SON rainfall is likely to be above- to normal in the Bahamas, Belize and the Greater Antilles; but is below- to normal in Barbados, Windwards, Trinidad & Tobago, with 10-20% fewer wet days (*medium to high confid.*) there, and in the E Guianas.

IMPLICATION:

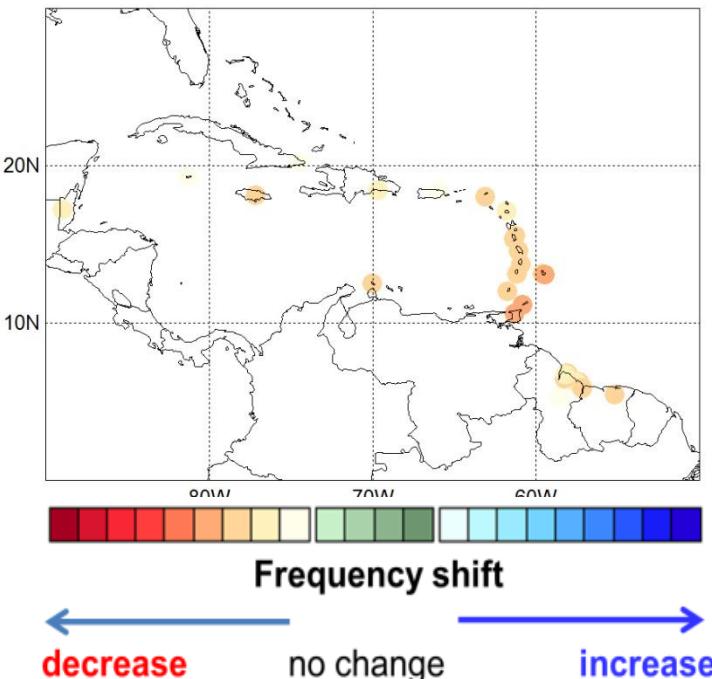
- Disruptions of outdoor activities by rainfall occurring regularly, but fewer than usual in Barbados, the Windwards and Trinidad & Tobago.



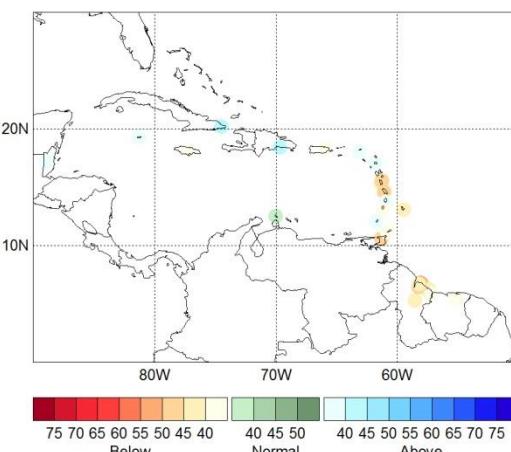
Wet spells frequency shifts

Forecast for: September to November 2016

SON 2016 frequency of 7-day wet spells



SON 2016 frequency of 7-day very wet spells



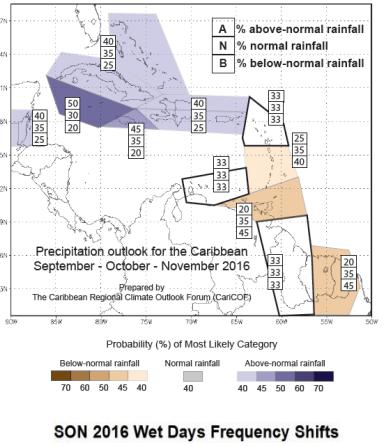
USUALLY: Forming the peak of the wet season(Guianas: dry season), roughly 4 to 6 wet spells (Guianas: 1 to 3) occur from September to November, of which 1 to 4 are very wet (Guianas: 0 to 2).

FORECAST: SON rainfall is likely to be above- to normal in the Bahamas, Belize and the Greater Antilles; but is below- to normal in Barbados, Windwards, Trinidad & Tobago, with 10-20% fewer wet days (*medium to high confid.*), fewer wet spells (*medium confid.*) and fewer very wet spells (*low confid.*) there, and in the E Guianas.

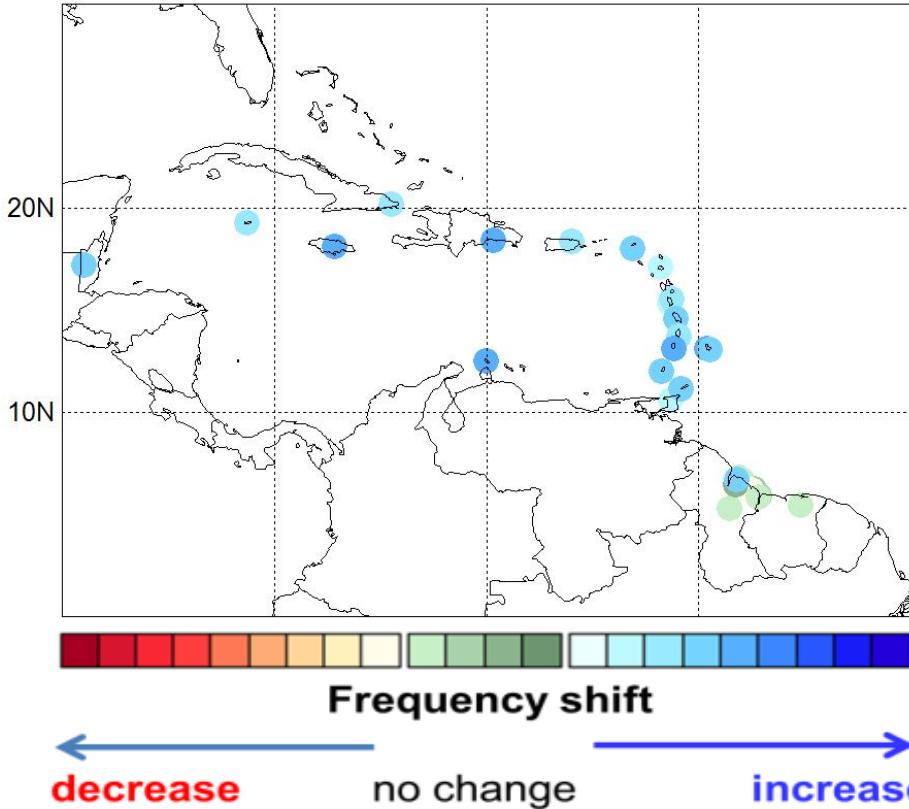
IMPLICATION:
Recharge of large water reservoirs by rainfall is expected.
Recharge rates slower than usual in Barbados, Windwards, Trinidad & Tobago.

Extreme wet spells frequency shifts

Forecast for: September to November 2016



SON 2016 frequency of extreme (top 1%) 3-day wet spells



USUALLY: Up to 2 extreme wet spells occur from September to November (Guianas: rare).

FORECAST: SON rainfall is likely to be above- to normal in the Bahamas, Belize and the Greater Antilles; but is below- to normal in Barbados, Windwards, Trinidad & Tobago, with 10-20% fewer wet days (*medium to high confid.*), fewer wet spells (*medium confid.*) and fewer very wet spells (*low confid.*) there, and in the E Guianas.

However, an increase in numbers of extreme wet spells (*medium confid.*) is forecast throughout the Antilles and Belize.

IMPLICATION: Some serious flash flood potential developing.

September to November 2016

	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 brown is a decrease in frequency, dark blue an increase,
	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	
Antigua (VC Bird)	31-44	31-45	3-6	3-7.2	1.3-4.3	1.2-5.5	0-2	0-2.1	
Aruba (Beatrix)	14-32	10-28	2.6-7.7	2.5-7.3	1.3-5.6	1.2-5.5	0-2.9	0-3.6	
Barbados (CIMH)	38-50	29-43	4.3-6.8	3.7-6.9	1.7-4.3	2.1-4.9	0-3	0-4.1	
Barbados (GAIA)	40-49	34-44	4.3-6.6	3.9-6.7	2.1-4.3	1.7-4.2	0-2	0-3.1	
Belize (C. Farm)	31-49	29-49	3.2-5.5	2.6-5.5	1.7-3.4	1.6-4.1	0-2	0-2.3	
Cayman	29-47	35-59	3.9-6.4	4.8-8.7	1.7-4.3	2.2-5.5	0-2.8	0-2.8	
Cuba (Punta Maisi)	16-32	25-53	2.6-6.4	3.9-9.9	1.3-4.7	2-5.9	0-2	0-2.6	
Dom. Republic (Las Americas)	26-39	22-38	3.4-6.4	3.2-7.7	1.3-4.3	2-6.1	0-2	0-3	
Dominica (Canefield)	42-54	40-56	3-5.6	2.4-6.4	1.7-3.8	1.3-4.4	0-2	0-2.3	
Dominica (Douglas Charles)	57-70	50-67	3.9-6	3.9-7.4	2.1-3.8	1.8-3.9	0-1.3	0-2.3	
Grenada (MBIA)	35-49	25-39	3.9-6	1.9-4.8	1.7-3.9	1.2-4.3	0-2	0-2.6	
Guyana_73	9-19	6-20	0.4-2.7	0.1-1.7	0-1.4	0-0.9	0-0	0-0	
Guyana (Albion)	10-26	8-34	0.4-2.6	0-2.9	0-0.9	0-0.8	0-0.4	0-0.1	
Guyana (Blairmont)	12-32	8-32	0.4-3	0-2	0-1.3	0-0.9	0-0	0-0	
Guyana (Charity)									
Guyana (Enmore)	11-34	7-31	0.4-2.6	0-2	0-1.3	0-0.9	0-0.1	0-0	
Guyana (Georgetown)	19-38	12-33	0.5-3	0-2.4	0-2.1	0-1	0-1	0-0.9	
Guyana (Greatfall)									
Guyana (New Amsterdam)	16-29	12-37	0.4-2.6	0.3-3.2	0-1.7	0-1.1	0-1	0-0.2	
Guyana (Skeldon)	15-32	16-43	0.5-2.6	0.4-2.4	0.4-1.3	0-1.2	0-0.3	0-0.5	
Guyana (Timehri)	30-42	25-44	1.3-3	1-2.9	0.4-1.7	0.3-1.6	0-0	0-0	
Guyana_Wales									
Jamaica (Worthy Park)	31-48	34-57	3.4-6	3.8-7.3	1.7-3.4	1.5-4.4	0-2	0-2.6	
Martinique (FDF Desaix)	53-62	44-56	3.9-6.4	2.5-6	2.2-3.9	1.8-4.1	0-2	0-2.8	
Puerto Rico (San Juan)	38-53	40-56	3.4-6	3.6-7.8	1.3-3.4	1.6-4.1	0-1	0-1.6	
St. Lucia (Hewanorra)	44-54	38-48	3.9-5.6	2.9-5	2.1-4.3	1.8-4.5	0-2	0-2.3	
St. Maarten (TNCM)	38-52	38-54	3.5-6.4	3.8-7.2	1.7-3.8	1.7-4.9	0-2	0-2.3	
St. Vincent (ET Joshua)	54-66	45-58	3.9-7.7	3.5-7	1.7-4.3	1.8-5	0-3	0-3.6	
Suriname (Zanderij)	22-34	23-41	0.9-2.1	0.8-2.2	0-1.3	0-1.3	0-0.2	0-0	
Tobago (ANR Robinson)	43-54	32-45	3.4-6	2.2-4.9	1.7-3.4	0.7-2.9	0-1	0-1.5	
Trinidad (Piarco)	41-51	30-44	3.5-6	2.3-5.2	1.7-3.4	1.3-3.4	0-2	0-2.3	