

Rainfall frequency and extreme forecasts

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wet days and wet spells outlooks

August to October 2016

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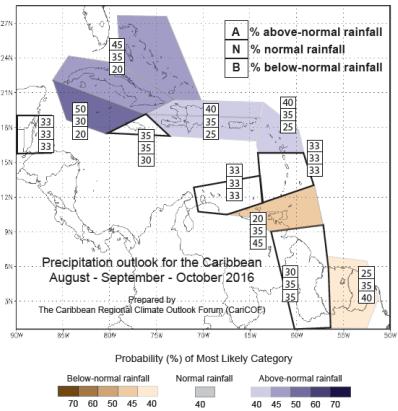
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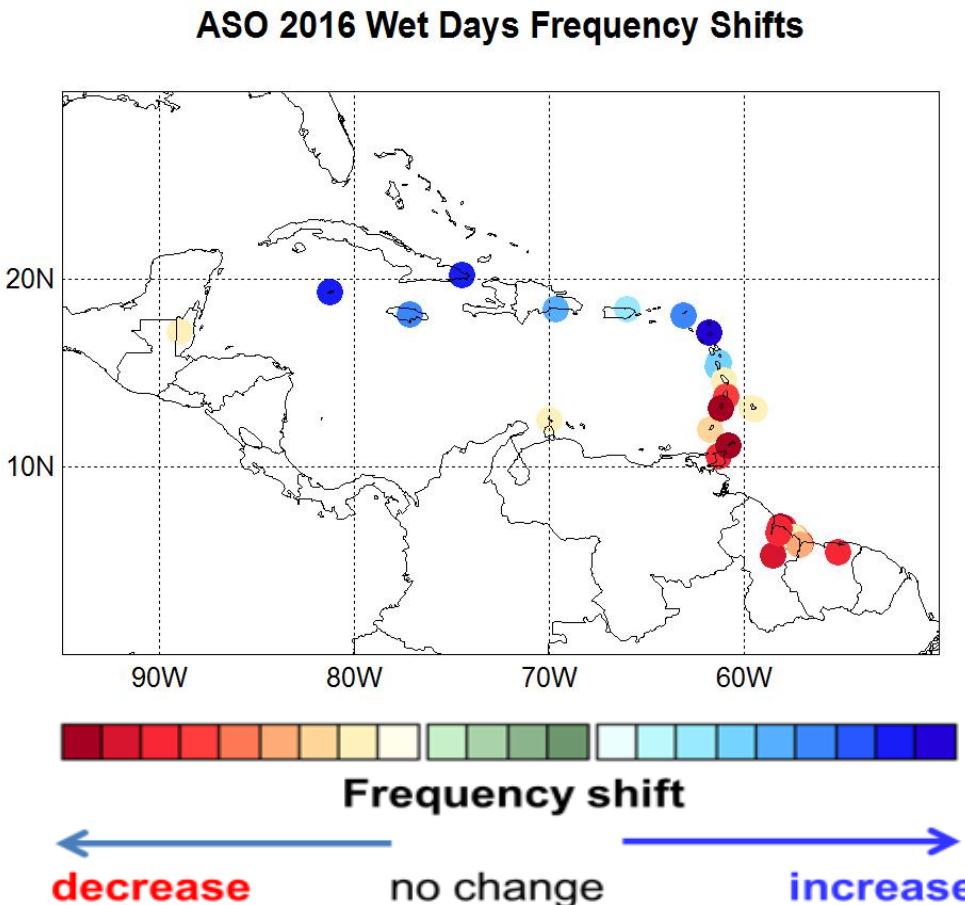
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Wet day frequency shifts

Forecast for: August to October 2016

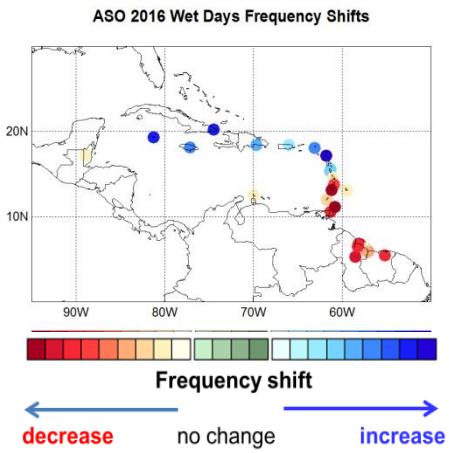
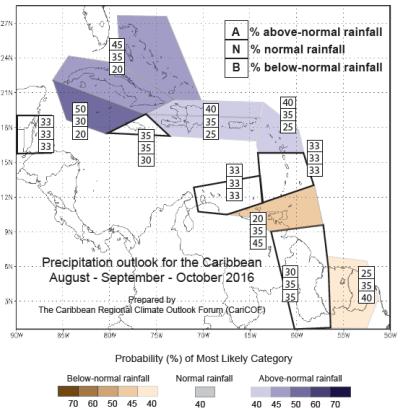


USUALLY: Across the region during August-September-October, about 35 to 50 days are wet days, except in Guianas, with 20 to 30 wet days.

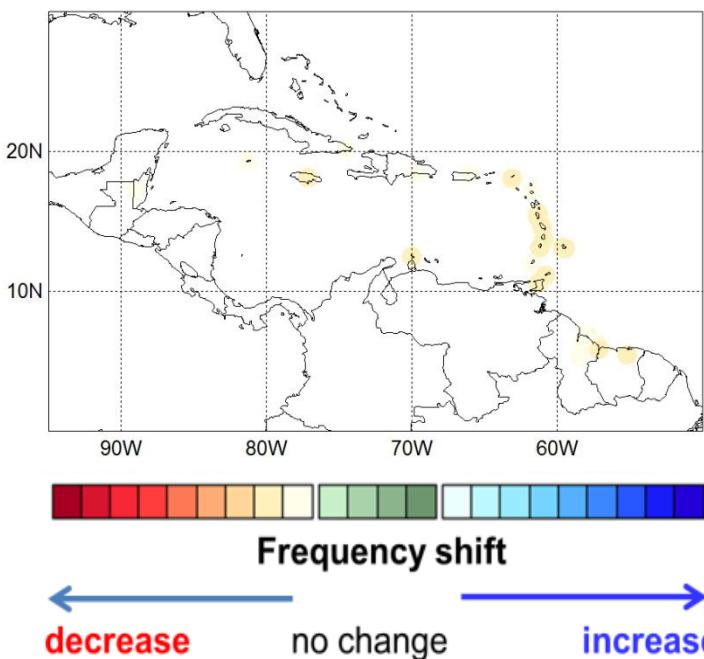
FORECAST: ASO rainfall is likely to be above- to normal in the Bahamas, the Greater Antilles and the Leeward Islands, with 10-20% more wet days (*high confidence*), but below- to normal in Trinidad and Tobago and the Guianas, with 15-20% fewer wet days there and in Barbados, Belize and the Leewards (*medium to high confid.*).

IMPLICATION:

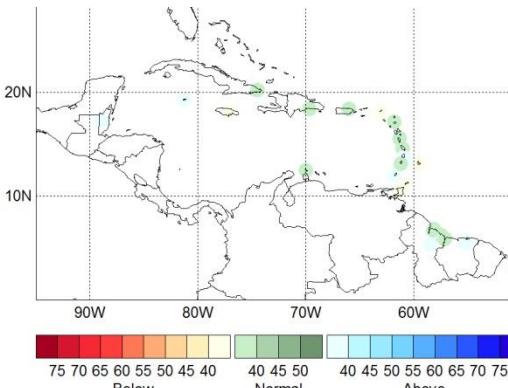
- Increase of surface wetness for the Northern Caribbean;
- Disruptions of outdoor activities by rainfall occurring regularly.



ASO 2016 frequency of 7-day wet spells



ASO 2016 frequency of 7-day very wet spells



Wet spells frequency shifts

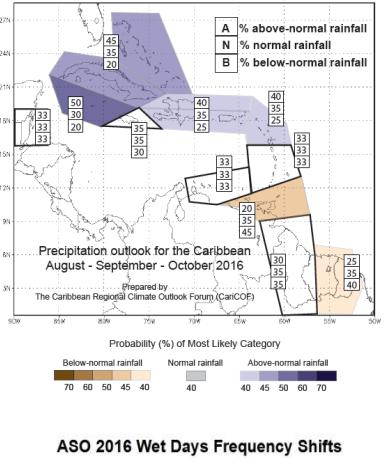
Forecast for: August to October 2016

USUALLY: Roughly 4 to 6 wet spells (Guianas: 1 to 3) occur from August to October of which 1 to 3 are very wet (Guianas: 0 to 2).

FORECAST: ASO rainfall is likely to be above- to normal in the Bahamas, the Greater Antilles and the Leeward Islands, with 10-20% more wet days (*high confidence*), but below- to normal in Trinidad and Tobago and the Guianas, with 15-20% fewer wet days there and in Barbados, Belize and the Leewards (*medium to high confid.*). **No significant shifts in numbers of wet spells (*low confid.*).**

IMPLICATION:

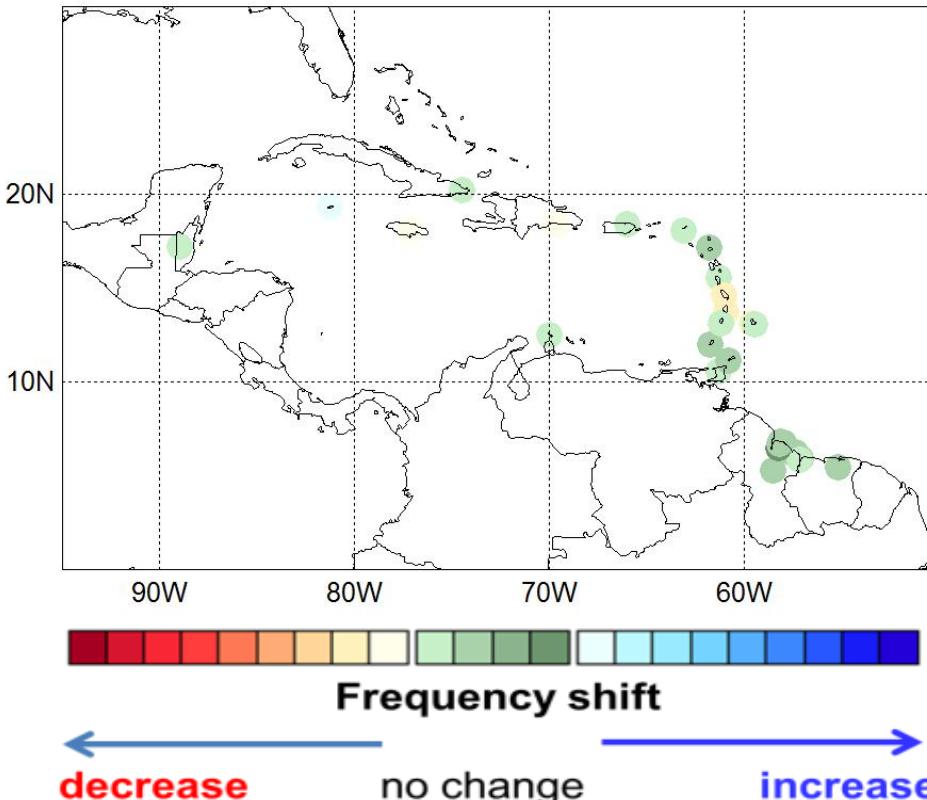
Recharge of large water reservoirs by rainfall is expected. Recharge rates unclear at this time.



Extreme wet spells frequency shifts

Forecast for: August to October 2016

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



USUALLY: Up to 2 extreme wet spells occur from August to October (Guianas: rare).

FORECAST: ASO rainfall is likely to be above- to normal in the Bahamas, the Greater Antilles and the Leeward Islands, with 10-20% more wet days (*high confidence*), but below- to normal in Trinidad and Tobago and the Guianas, with 15-20% fewer wet days there and in Barbados, Belize and the Leewards (*medium to high confid.*). No significant shifts in numbers of wet spells (*low confid.*) or extreme wet spells (*medium confid.*).

IMPLICATION: Some flash flood potential developing.

August to October 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)	
	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast
Antigua (VC Bird)	30-45	38-52	3-6	2.7-5.6	0.9-4	1.2-3.8	0-1.4	0-1.1
Aruba (Beatrix)	8-22	7-21	1.7-5.4	1.5-4.7	0.4-3.4	0.8-3.3	0-2	0-1.4
Barbados (CIMH)	37-50	33-51	4.1-7.2	3.8-6.7	2-4.3	2-4.2	0-2	0-1.7
Barbados (GAIA)	39-49	37-51	4.3-6.9	4.2-6.3	1.7-4	1.9-4.1	0-2	0-1.6
Belize (C. Farm)	33-50	29-51	3-6.4	2.9-5.9	1.3-3.9	1.2-3.7	0-2	0-1.7
Cayman	34-46	40-57	4.3-6.9	4.1-6.7	1.7-4.4	1.6-4.7	0-2	0-1.9
Cuba (Punta Maisi)	12-27	18-43	2.6-5.3	2.2-5.2	0.9-3.4	1.2-3.2	0-2	0-1.6
Dom. Republic (Las Americas)								
Dominica (Canefield)	45-61	46-65	3.5-6.4	2.8-6.8	1.6-4.5	1.6-4.7	0-2.5	0-1.9
Dominica (Douglas Charles)	57-70	59-79	3.3-6.9	3.1-6.2	1.6-3.9	1.6-3.9	0-1.1	0-1.4
Grenada (MBIA)	37-47	33-47	3.8-6.4	3.2-6.4	1.3-3.9	1.4-4.1	0-1.6	0-1.4
Guyana_73	10-21	6-17	0.7-3	0.6-2.7	0-2.1	0.1-1.8	0-1	0-0.5
Guyana (Albion)	14-29	10-28	0.9-3.7	0.9-3	0.4-1.7	0.5-1.7	0-1	0-0
Guyana (Blairmont)	18-32	14-27	0.9-3	0.8-2.7	0-1.4	0-1.4	0-0	0-0
Guyana (Enmore)	16-32	11-25	0.9-3	0.8-2.7	0.4-1.3	0.4-1.4	0-0	0-0.1
Guyana (Georgetown)	21-38	12-26	0.4-2.6	0.6-2.4	0-1.4	0-1.3	0-0.3	0-0
Guyana (Greatfall)	25-41	16-32	0.9-3	0.9-3.1	0.4-1.8	0.3-2	0-0.4	0-0.3
Guyana (New Amsterdam)	20-29	17-29	0.4-3	0.6-2.8	0-1.3	0-1.4	0-0.4	0-0.3
Guyana (Skeldon)	20-31	16-29	0.9-3	0.8-2.7	0.4-1.7	0.6-1.6	0-1	0-0.4
Guyana (Timehri)	34-44	27-40	1.7-3.6	1.5-3.4	0.4-1.7	0.6-1.9	0-0	0-0
Guyana_Wales	27-38	21-33	1.6-3.2	1.2-3.3	0.1-1.8	0.1-1.6	0-0.2	0-0
Jamaica (Worthy Park)	29-48	34-59	3.3-6.4	3-6.1	1.3-4	1.4-3.9	0-2	0-1.7
Martinique (FDF Desaix)	50-63	47-65	3.9-7.3	3.6-6.6	1.7-4.3	1.9-4.2	0-2	0-1.7
Puerto Rico (San Juan)	39-51	39-54	3.3-5.6	2.5-5.4	0.9-3	1.2-3.2	0-1	0-1.3
St. Lucia (Hewanorra)	44-58	39-52	3.9-6.4	3.2-6.5	2-3.9	1.5-4.6	0-2	0-1.4
St. Maarten (TNCM)	34-50	38-61	2.6-5.7	2.5-6	0.9-3.4	1.1-3.6	0-1.4	0-1.3
St. Vincent (ET Joshua)	53-63	46-59	3.3-6.9	3.1-6.4	1.6-3.6	1.6-3.8	0-2	0-1.7
Suriname (Zanderij)	25-42	18-33	0.9-3.4	0.7-2.7	0.3-2.2	0.2-1.7	0-0.1	0-0
Tobago (ANR Robinson)	43-56	37-50	3.6-5.6	3.4-5.7	1.1-3.6	1.2-3.7	0-1.4	0-1.3
Trinidad (Piarco)	37-52	27-41	3.7-5.7	3.3-5.7	1.7-3.2	1.6-3.3	0-1	0-1.3