

Rainfall frequency and extreme forecasts

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wet days and wet spells outlooks

October to December 2016

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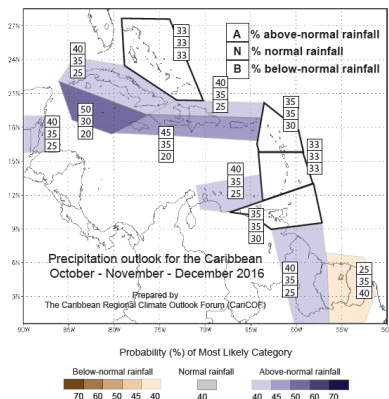
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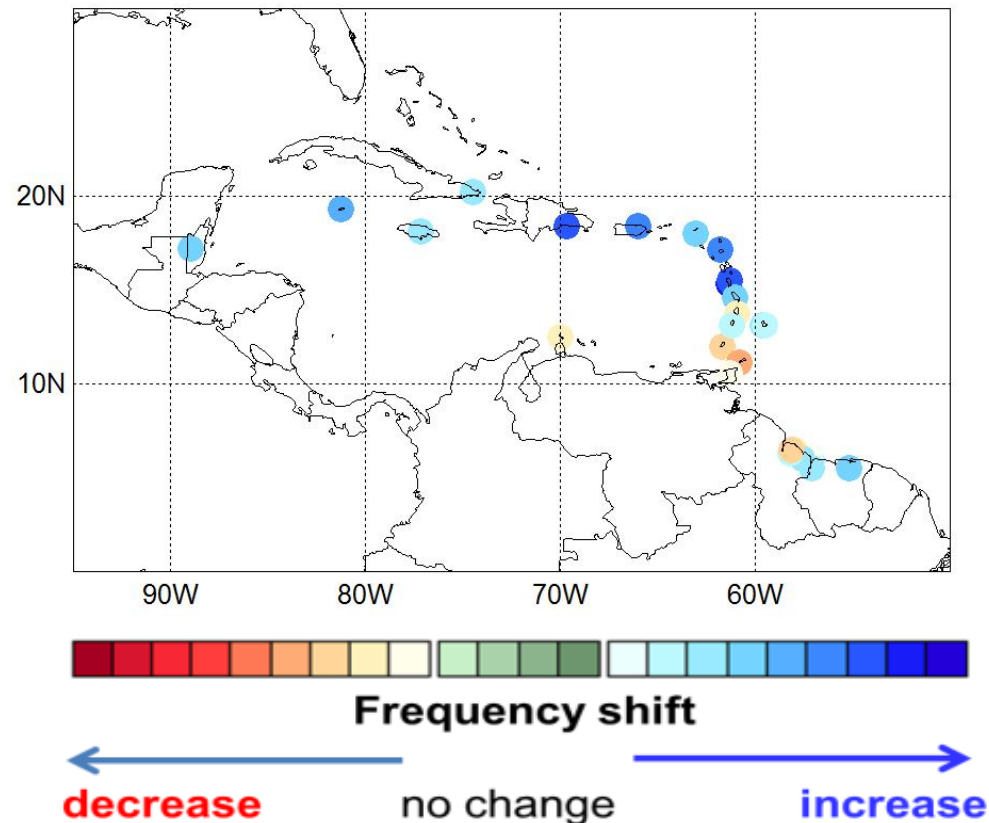


Wet day frequency shifts

Forecast for: October to December 2016



OND 2016 Wet Days Frequency Shifts



USUALLY: Across the region during October-November-December, about 30 to 50 days are wet days.

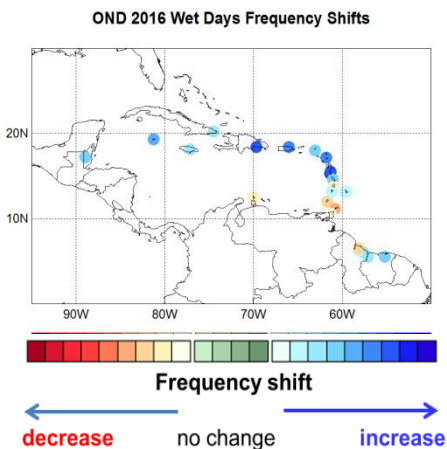
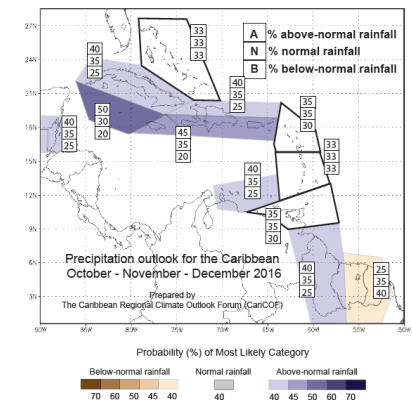
FORECAST: OND rainfall is likely to be above- to normal in the ABC Islands, Belize, the Greater Antilles and W Guianas, with up to 20% more wet days (*medium to high confid.*) in the territories north of 16°N. Below- to normal is forecast for E Guianas.

IMPLICATION:

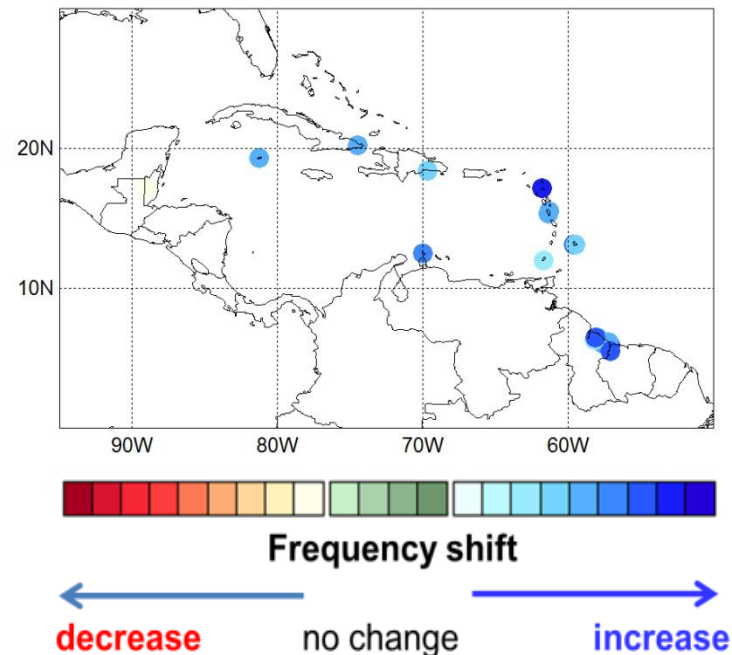
- Disruptions of outdoor activities by rainfall occurring regularly, but fewer than usual in Aruba, Grenada, parts of Guyana and Trinidad & Tobago.

Wet spells frequency shifts

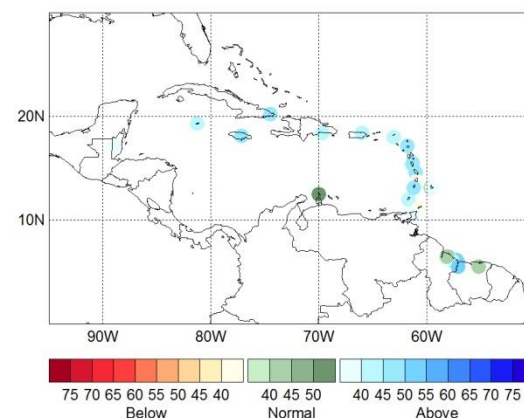
Forecast for: September to November 2016



OND 2016 frequency of 7-day wet spells



OND 2016 frequency of 7-day very wet spells



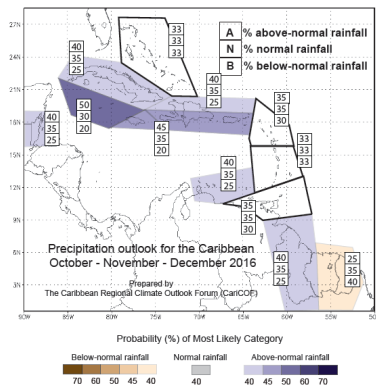
USUALLY: Near the end of the wet season (Guianas: transition from dry to wet season; ABC Islands: wet season), roughly 3 to 5 wet spells (ABC Islands: 3 to 9) occur from October to December, of which 1 to 4 are very wet (ABC Islands: 1 to 7).

FORECAST: OND rainfall is likely to be above- to normal in the ABC Islands, Belize, the Greater Antilles and W Guianas, with up to 20% more wet days (*medium to high confid.*) in the territories north of 16°N, and more wet spells in most places (*medium confidence*) . Below- to normal is forecast for E Guianas.

IMPLICATION:
Ample recharge of large water reservoirs by rainfall is expected in most places.

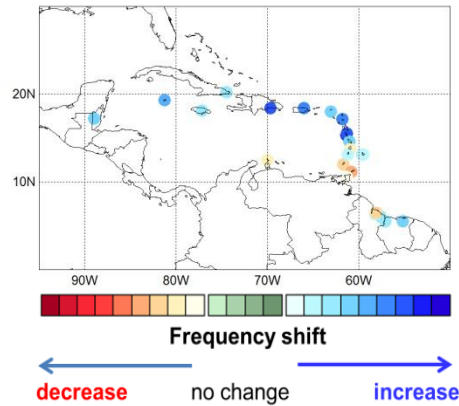
Extreme wet spells frequency shifts

Forecast for: October to December 2016

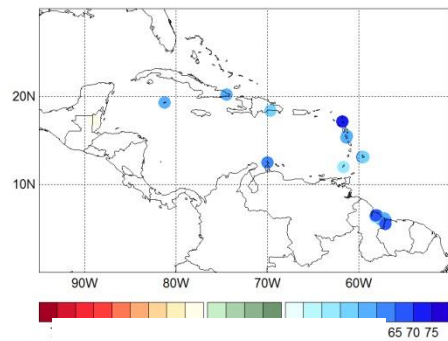


OND 2016 frequency of *extreme (top 1%) 3-day wet spells*

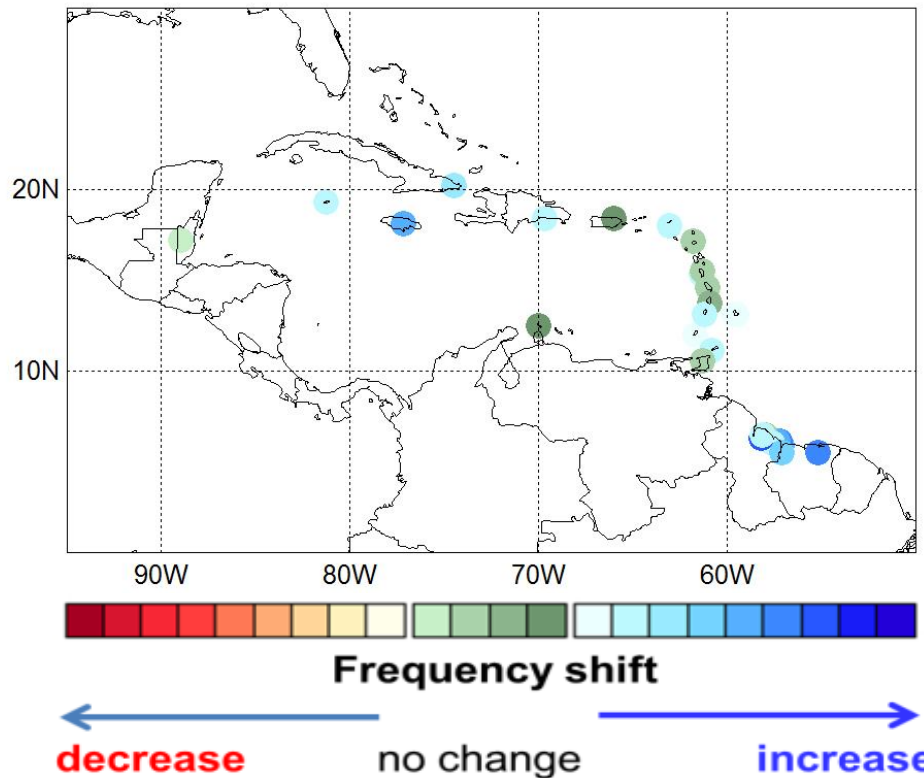
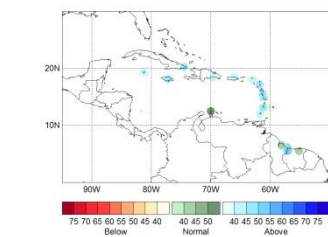
OND 2016 Wet Days Frequency Shifts



OND 2016 7-day Wet Spells Frequency Shifts



OND 2016 7-day Very Wet Spells Frequency Shifts



USUALLY: Up to 1 or 2 extreme wet spells occur from October to December (ABC Islands: up to 3).

FORECAST: OND rainfall is likely to be above- to normal in the ABC Islands, Belize, the Greater Antilles and W Guianas, with up to 20% more wet days (*medium to high confid.*) in the territories north of 16°N, and more wet spells in most places (*medium confidence*). Below- to normal is forecast for E Guianas.

However, no large shift in numbers of extreme wet spells (*medium confid.*) is forecast throughout the Caribbean.

IMPLICATION: Some flash flood potential developing.

October to
December 2016

Antigua (VC Bird)
Aruba (Beatrix)
Barbados (CIMH)
Barbados (GAIA)
Belize (C. Farm)
Cayman
Cuba (Punta Maisi)
Dom. Republic (Las Americas)
Dominica (Canefield)
Dominica (Douglas Charles)
Grenada (MBIA)
Guyana_73
Guyana (Albion)
Guyana (Blairmont)
Guyana (Enmore)
Guyana (Georgetown)
Guyana (Greatfall)
Guyana (New Amsterdam)
Guyana (Skeldon)
Guyana (Timehri)
Jamaica (Worthy Park)
Martinique (FDF Desaix)
Puerto Rico (San Juan)
St. Lucia (Hewanorra)
St. Maarten (TNCM)
St. Vincent (ET Joshua)
Suriname (Zanderij)
Tobago (ANR Robinson)
Trinidad (Piarco)

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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
32-44	34-54	3-5.6	3.6-6.5	1.3-3	1.3-3.7	0-1	0-1.4
19-44	14-41	3.4-8.6	5.4-10.4	1.3-6.9	2.1-6.1	0-3	0-2.4
35-48	34-53	3.4-5.6	4.2-6.7	1.3-3.9	1.8-3.9	0-2	0-1.9
35-49	32-54	3.4-5.6	4.1-6.5	1.3-3.4	1.7-3.8	0-2	0-1.8
32-49	29-58	2.6-5.6	2.3-5.7	1.3-2.6	1.3-3	0-1	0-1.4
22-40	26-49	2.1-4.7	3-6.1	0.9-3.7	0.9-3.7	0-2.5	0-2.1
18-32	17-36	2.6-5.6	3.9-7.3	1.3-4.3	1.3-4.3	0-2	0-2
40-55	44-64	2.6-4.8	2.6-5.6	1-2.6	0.9-2.9	0-1.1	0-1.4
58-69	61-78	3-5.8	3.7-7.1	1.7-3.7	1.5-3.8	0-1.2	0-1.5
25-35	27-46	2.6-4.9	2.8-5.9	0.4-3	0.6-3.2	0-2	0-1.3
33-48	28-50	3.4-5.6	3.5-6.2	1.3-3.4	1.5-3.7	0-2	0-1.8
13-27	13-30	1.3-3.9	1.7-4.3	0-2.6	0.2-2.7	0-1	0-1.2
18-40	11-46	0.9-4.3	1.5-6.1	0-2.1	0.2-2.4	0-1	0-1.2
20-40	16-45	0.9-3.9	1.5-4.5	0.4-2.1	0.3-2.4	0-1	0-1.3
18-49	13-50	0.9-4.3	1.8-5.3	0.4-2.9	0.4-3	0-1.9	0-1.5
28-46	27-50	1.3-4.3	2-5.3	0.4-2.6	0.6-2.9	0-2	0-1.7
24-40	20-44	1.3-3.9	1.7-5.1	0.4-2.1	0.4-2.6	0-1	0-1.5
26-39	24-45	1.3-3.8	1.9-4.5	0.4-2.1	0.4-2.2	0-2	0-1.2
40-51	38-55	1.7-3.9	2.1-4.5	0.4-2.1	0.6-2.4	0-1	0-0.8
23-39	18-45	2.6-5.1	2.7-5.5	0.9-2.6	1.1-3	0-1	0-1
48-61	47-73	3.4-6	3.2-6.7	1.3-3	1.3-3.7	0-2	0-1.6
39-52	39-64	3-5.6	3.4-6.4	0.9-3.4	1.3-3.5	0-1	0-1.1
41-54	38-56	3-5.6	3.2-6	1.3-3.4	1.3-3.6	0-1.1	0-1.4
36-50	34-59	2.6-5.6	3.3-6.9	1.7-3.9	1.5-3.8	0-2	0-2.2
52-64	51-70	3.4-6.4	3.8-7.5	1.7-3.9	1.8-4.1	0-2	0-2.2
28-44	29-55	1.3-2.6	1.2-2.7	0-1.7	0.1-1.7	0-1	0-0.7

grey none are expected
dark blue an increase,
brown is a decrease in frequency,