

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks December to February 2019-'20

**Dr. Cedric VAN MEERBEECK¹, Dr. Teddy ALLEN¹, Dr. Simon MASON²,
Ángel MUÑOZ², Wazita Scott¹, Dale Destin³**

¹Caribbean Institute for Meteorology and Hydrology (CIMH), Barbados

²International Research Institute for Climate and Society (IRI), USA

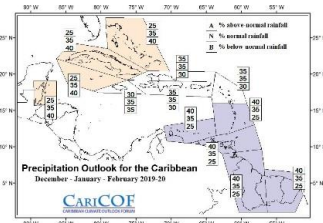
³Antigua and Barbuda Meteorological Services



Wet day frequency shifts

Forecast for: December to February 2019-'20

Precipitation outlook



DJF 2019-'20
Frequency of wet days



USUALLY: Out of 90 days in Dec-Jan-Feb, there are about 25 to 40 wet days (ABC Islands: 10-35; coastal Guianas: 30 to 50).

FORECAST: DJF rainfall may be wetter than usual south of the Leeward Islands including the Guianas, but drier than usual throughout the NW part of the region, **with little change in number of wet days** (*low to medium confidence*).

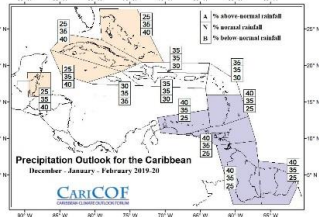
IMPLICATIONS:

- Favorable conditions for outdoor activities with respect to wet days
- Potential for less favorable growing conditions in areas of forecasted below normal rainfall

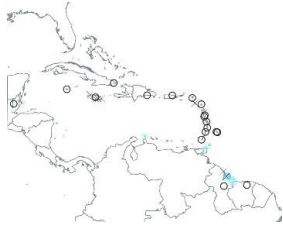
Wet spells frequency shifts

Forecast for: December to February 2019-'20

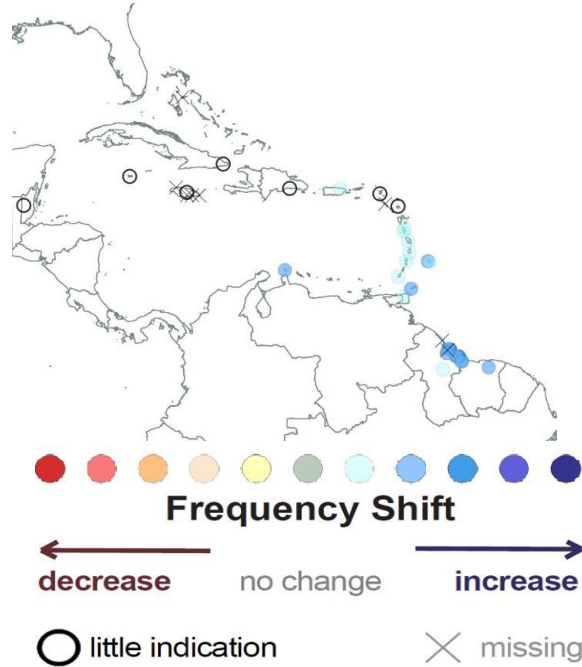
Precipitation outlook



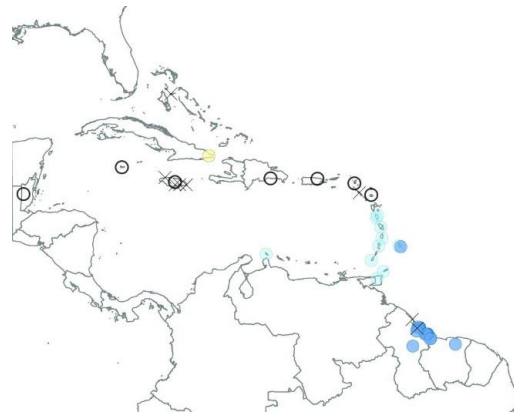
Wet days outlook



DJF 2019-'20 frequency of 7-day wet spells



DJF 2019-'20 frequency of 7-day very wet spells



USUALLY: Between 1 and 3 wet spells occur from December to February (ABC Islands: 2 to 6; coastal Guianas: 1 to 5), with up to 1 or 2 of them ending up very wet (ABC Islands & coastal Guianas: up to 3).

FORECAST: DJF rainfall may be wetter than usual south of the Leeward Islands including the Guianas, but drier than usual throughout the NW part of the region, with little change in number of wet days (*low to medium confidence*). There is slight shift in the forecast number of wet and very wet spells along The Windward islands, but a more marked increase in Guyana and Suriname, where more wet and very wet spells are also expected (*medium confid.*).

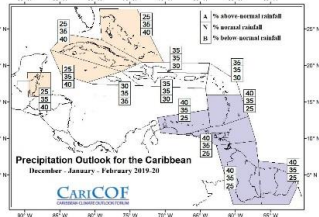
IMPLICATIONS:

- Increased chance of flooding along the Windward Islands, with decreasing chances by February and as well as in the Guianas throughout the period
- Slightly enhanced water recharge rates by the end of the year along the eastern Caribbean

Extreme wet spells frequency shifts

Forecast for: December to February 2019-'20

Precipitation outlook



DJF 2019-'20 frequency of extreme (top 1%) 3-day wet spells



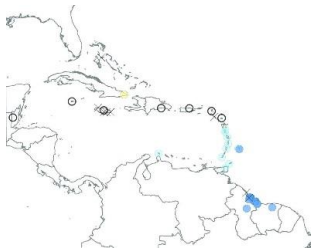
Wet days outlook



Wet spells outlook



Very wet spells outlook



USUALLY: Up to 1 extreme wet spells occur from December to February in Belize and the islands (coastal Guianas: up to 2).

FORECAST: DJF rainfall may be wetter than usual south of the Leeward Islands including the Guianas, but drier than usual throughout the NW part of the region, with little change in number of wet days (*low to medium confidence*). There is slight shift in the forecast number of wet and very wet spells along The Windward islands, but a more marked increase in Guyana and Suriname, where more wet and very wet spells are also expected (*medium confid.*). **No change is expected for extreme wet spells (*low to medium confid.*) most of the region.**

IMPLICATION:

- Some potential for flash floods up until December in Belize and the islands, and from late November onwards in the coastal Guianas.

December to February 2019-'20

	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)	24-40	24-41	1.4-2.6	1.3-3.5	0.4-1.5	0.2-1.6	0-0	0-0
Aruba (Beatrix)	13-36	15-40	2.2-6.5	2.6-7.1	0.3-3.5	1.1-3.9	0-1	0-0.5
Barbados (CIMH)	21-44	24-44	0.9-2.6	0.9-2.6	0-1.4	0.2-1.5	0-0	0-0
Barbados (GAIA)	22-41	23-43	0.8-3	0.9-3.6	0-1.3	0.4-1.5	0-0	0-0
Belize (C. Farm)	21-40	19-40	1.3-3.7	1.1-3.9	0.4-1.7	0-1.9	0-0.8	0-0
Cayman	11-22	10-23	0.4-2.2	0.2-2.4	0-0.9	0-1.1	0-0	0-0
Cuba (Punta Maisi)	13-22	12-24	1.7-4.1	1.5-4.6	0.6-2.2	0.4-2.2	0-0	0-0
Dom. Republic (Las Americas)	15-23	13-25	0.9-2.1	0.7-2.4	0-1.3	0-1.2	0-0.2	0-0.3
Dominica (Canefield)	36-53	34-55	0.8-3.7	0.6-3.9	0-1.3	0-1.7	0-0	0-0
Dominica (Douglas Charles)	49-63	44-67	0.8-3	0.8-3.5	0-1.4	0-1.6	0-0	0-0
Grenada (MBIA)	20-38	19-43	0.8-3.6	0.7-3.8	0-2	0.1-2.1	0-0.9	0-0.5
Guyana_73	15-33	16-32	0.9-5.4	1.6-5.6	0.4-3.9	0.8-4.6	0-2	0-1.3
Guyana (Albion)	26-51	29-53	1.3-6.1	2.2-6	0.4-3.5	1.1-3.8	0-1.8	0-1
Guyana (Blairmont)	33-53	32-59	1.2-5.6	1.8-6	0.5-3.2	0.9-3.8	0-2	0-1.4
Guyana (Enmore)	29-51	33-55	1.3-4.9	2.6-5.9	0.4-3.9	1.4-6.1	0-1	0-1.2
Guyana (Georgetown)	34-59	36-59	0.8-5.6	1.6-6.6	0-4.5	0.9-4.6	0-2	0-1.8
Guyana (New Amsterdam)	31-54	33-55	1-5.1	1.8-5.5	0.8-3.8	1.1-3.9	0-2	0-1.4
Guyana (Skeldon)	27-48	30-51	1.3-4.9	1.8-4.9	0.4-2.7	0.7-3	0-2.2	0-0.5
Guyana (Timehri)	39-65	40-63	1.3-5	2-5.3	0.4-3	0.9-3.7	0-1	0-1.5
Jamaica (Worthy Park)	17-25	15-26	0.4-2.6	0.2-2.5	0-1.7	0.1-1.5	0-0	0-0
Martinique (FDF Desaix)	43-60	42-62	0.9-3	1-3.4	0-1.3	0.1-1.6	0-0	0-0
Puerto Rico (San Juan)	31-46	31-48	1.3-3.6	1.6-4	0.4-1.4	0.4-2.3	0-1	0-0.7
St. Lucia (Hewanorra)	30-47	31-49	0.9-2.6	1.1-3	0-1.3	0.3-1.7	0-0	0-0
St. Maarten (TNCM)	30-47	28-50	1.6-4.5	1.4-5.1	0.1-2.2	0.1-2.4	0-1	0-0.9
St. Vincent (ET Joshua)	43-61	41-62	0.9-3	1-3.3	0.1-1.8	0.5-2	0-0	0-0
Suriname (Zanderij)	42-55	40-57	1.6-3.9	2-4.2	0.4-2.2	0.8-3.2	0-1	0-1
Tobago (ANR Robinson)	27-41	27-43	0-2.5	0.6-2.8	0-1.3	0.2-1.8	0-1	0-0.3
Trinidad (Piarco)	23-39	23-42	0.8-3.5	1-4.1	0-2.1	0.3-2.3	0-1	0-1

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



CARICOF
CARIBBEAN CLIMATE OUTLOOK FORUM

caricof@cimh.edu.bb

rcc.cimh.edu.bb

Caribbean Institute for Meteorology and Hydrology

TEL: (246) 425-1362/3 | FAX: (246) 424-4733