

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks December to February 2020-21

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Wet day frequency shifts

Forecast for: December to February 2020-'21

DJF 2020-'21

Frequency of wet days

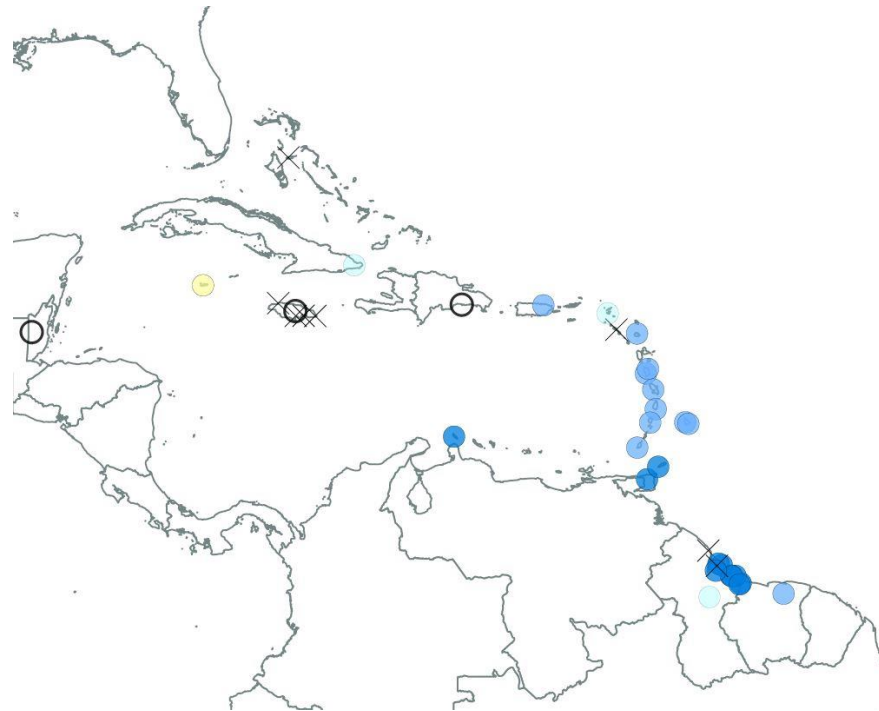
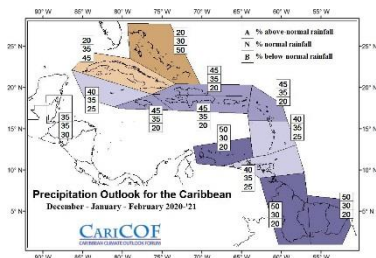
USUALLY: Out of 90 days in Dec-Jan-Feb, there are about 25 to 40 wet days (ABC Islands: 10-35; coastal Guianas: 30 to 50).

FORECAST: DJF rainfall may be drier than usual in the Bahamas and Cuba, but potentially wetter than usual elsewhere. An increase in wet days is forecast for most islands east- and southwards of Hispaniola (*medium confidence*) and, especially in the coastal Guianas (*high confid.*).

IMPLICATIONS:

- Favourable conditions for moisture-related pests and diseases in view of frequent wet days in the coastal Guianas.
- A notable decrease in the frequency of rainfall disruptions of outdoor activities and a steady increase in wildfire potential towards February in Belize and the Islands, though slower than usual in the eastern Caribbean.

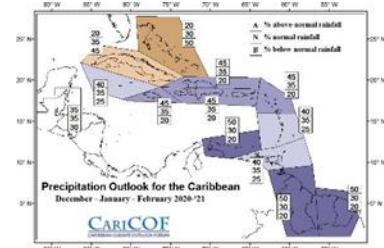
Precipitation outlook



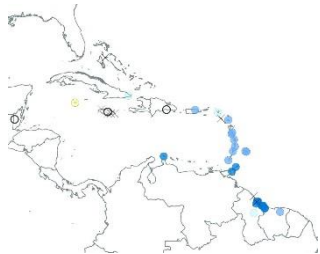
Wet spells frequency shifts

Forecast for: December to February 2020-'21

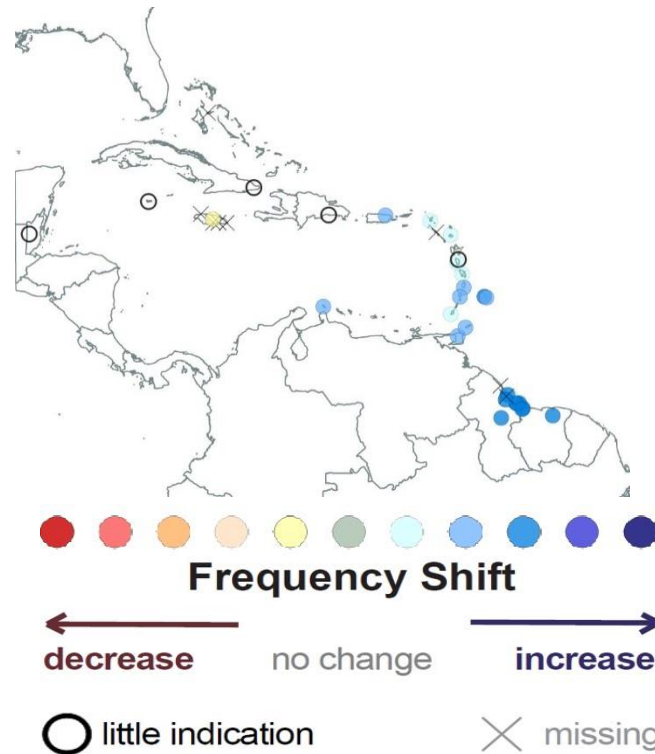
Precipitation outlook



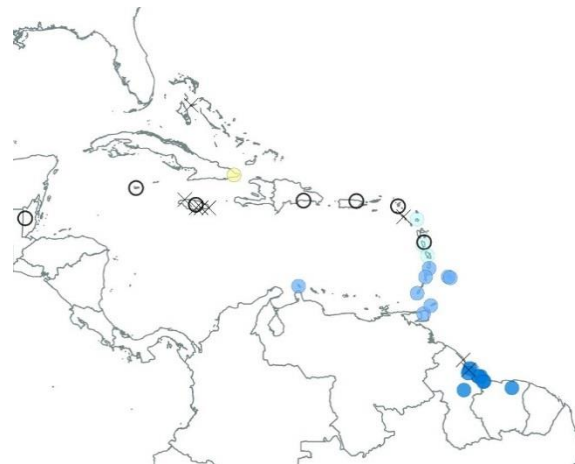
Wet days outlook



DJF 2020-'21 frequency of 7-day wet spells



DJF 2020-'21 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 drier than usual in the Bahamas and Cuba, but potentially wetter than usual elsewhere. An increase in wet days, **wet spells** and **very wet spells** is forecast for most islands east- and southwards of Hispaniola (*medium confidence*) and, especially in the coastal Guianas (*high confid.*).

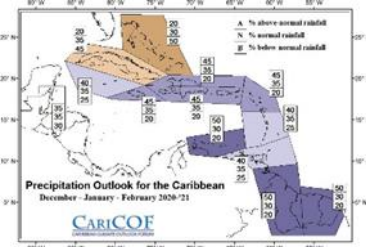
IMPLICATIONS:

- **Slower than usual depletion of water reservoirs east- and southwards of Hispaniola for the early dry season in the islands.**
- **High flooding potential related to frequent very wet spells through mid-February in the Guianas.**
- **Slight to moderate flooding potential until late December to early January in other areas.**

Extreme wet spells frequency shifts

Forecast for: December to February 2020-'21

Precipitation outlook



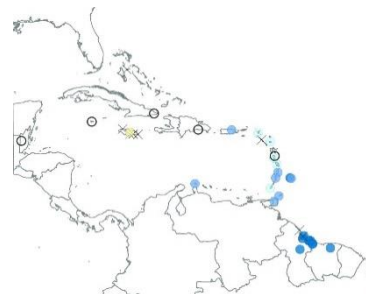
DJF 2020-'21 frequency of extreme (top 1%) 3-day wet spells



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 drier than usual in the Bahamas and Cuba, but potentially wetter than usual elsewhere. An increase in wet days, wet spells and very wet spells is forecast for most islands east- and southwards of Hispaniola (*medium confidence*) and, especially in the coastal Guianas (*high confid.*).

Very little to no change from the usual number of extreme wet spells has been forecasted for Belize and the Islands (*low confidence*), but a slight increase is expected in the coastal Guianas.

IMPLICATION:

- Flash flood potential, land slide/rock fall and soil erosion potential expected to be high in the Guianas throughout the period. In Belize and the Islands, this potential will decrease from moderate in December to slight in January and February.

December to February 2020-'21	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
	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	Climatology	Forecast	
Antigua (VC Bird)	24-39	25-44	1.4-2.6	1.3-3.6	0.4-1.4	0.3-1.6	0-0	0-0	blue an increase,
Aruba (Beatrix)	13-36	17-50	2.2-6.4	3.1-7.8	0.3-3.4	1.4-4.1	0-1	0-1	
Barbados (CIMH)	21-44	26-49	0.9-2.5	1.1-2.9	0-1.4	0.3-1.5	0-0	0-0	
Barbados (GAIA)	22-41	24-46	0.7-3	1-3.8	0-1.3	0.4-1.5	0-0	0-0	
Belize (C. Farm)	21-40	19-41	1.3-3.7	1.1-3.7	0.4-1.7	0.1-1.8	0-0.8	0-0.5	
Cayman	11-22	9-23	0.4-2.1	0.3-2.3	0-0.9	0-1.1	0-0	0-0	
Cuba (Punta Maisi)	13-22	12-25	1.7-4	1.6-4.6	0.6-2.1	0.4-2.1	0-0	0-0	
Dom. Republic (Las Americas)	14-23	13-25	0.9-2	0.8-2.7	0-1.3	0-1.3	0-0.2	0-0.2	
Dominica (Canefield)	36-53	36-59	0.8-3.7	0.7-4	0-1.3	0-1.6	0-0	0-0	
Dominica (Douglas Charles)	48-62	46-70	0.8-3	0.8-3.5	0-1.3	0-1.5	0-0	0-0	
Grenada (MBIA)	20-38	21-48	0.7-3.6	0.8-3.9	0-1.9	0-2.1	0-0.8	0-0.6	brown is a decrease in frequency,
Guyana_73	15-33	19-37	0.9-5.4	2.1-6.4	0.4-3.9	0.9-4.8	0-2	0-2	
Guyana (Albion)	25-50	33-60	1.3-6	2.7-6.9	0.4-3.4	1.4-3.9	0-1.7	0-1.8	
Guyana (Blairmont)	33-53	35-67	1.2-5.6	2.2-6.7	0.5-3.2	1.2-3.9	0-2	0-2	
Guyana (Enmore)	29-51	34-58	1.3-4.8	2-5.3	0.4-3.9	1-4.5	0-1	0-1.3	
Guyana (Georgetown)	33-59	40-66	0.8-5.5	1.8-7.6	0-4.4	1.1-4.9	0-2	0-2.5	
Guyana (New Amsterdam)	31-54	36-61	1-5.1	2.2-6.1	0.7-3.7	1.3-4	0-2	0-1.9	
Guyana (Skeldon)	27-48	32-56	1.3-4.8	2-5.6	0.4-2.7	0.9-3.1	0-2.2	0-1.8	
Guyana (Timehri)	39-64	44-71	1.3-5	2.3-6	0.4-3	1-3.8	0-1	0-1.7	
Jamaica (Worthy Park)	17-25	14-26	0.4-2.6	0.3-2.3	0-1.7	0-1.3	0-0	0-0	
Martinique (FDF Desaix)	43-59	44-65	0.9-3	1.1-3.5	0-1.3	0-1.6	0-0	0-0	
Puerto Rico (San Juan)	30-46	32-50	1.3-3.6	1.7-4.1	0.4-1.4	0.5-2.3	0-1	0-0.7	
St. Lucia (Hewanorra)	30-46	32-51	0.9-2.6	1.2-3.2	0-1.3	0.3-1.7	0-0	0-0	
St. Maarten (TNCM)	30-47	29-51	1.6-4.4	1.5-5.2	0.1-2.1	0.1-2.4	0-1	0-1	
St. Vincent (ET Joshua)	42-60	43-66	0.9-3	1.2-3.5	0.1-1.8	0.6-2	0-0	0-0	
Suriname (Zanderij)	42-54	42-59	1.6-3.9	2.1-4.5	0.4-2.1	1-3.3	0-1	0-1.3	
Tobago (ANR Robinson)	26-40	29-46	0-2.5	0.5-3	0-1.3	0.2-1.8	0-1	0-0.5	
Trinidad (Piarco)	23-38	25-46	0.8-3.4	1.1-4.4	0-2.1	0.3-2.3	0-1	0-1.1	



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