

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks October to December 2021

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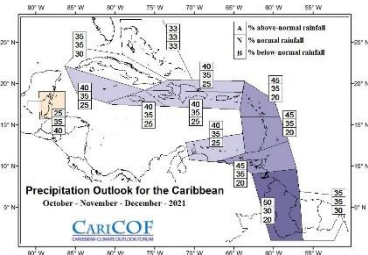
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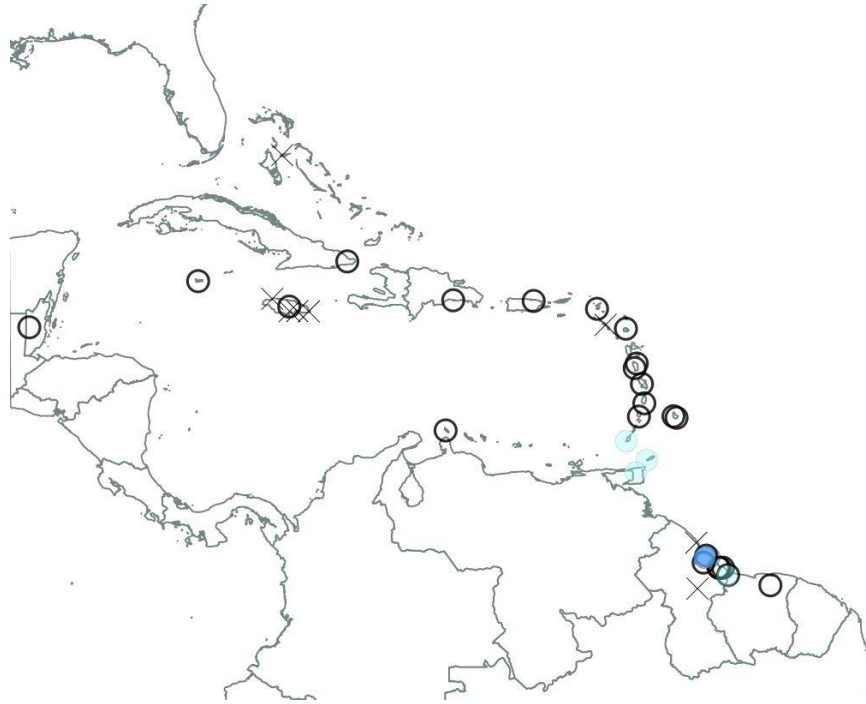
Wet day frequency shifts

Forecast for: October to December 2021

Precipitation outlook



OND 2021 Frequency of wet days



USUALLY: Out of 92 days in Oct-Nov-Dec, there are about 35 to 50 wet days (coastal Guianas: 20-40; ABC Islands: 15-35).

FORECAST: At least the usual rainfall totals across most of the Antilles and western parts of the Guianas, but possibly drier than usual in Belize. This is accompanied by a slight increase in the number of wet days in Grenada, parts of coastal Guyana and Trinidad & Tobago (*low to medium confidence*).

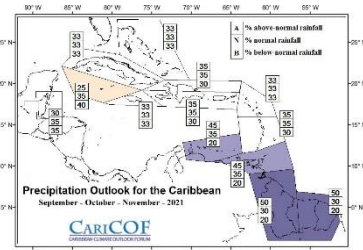
IMPLICATIONS:

- Outdoor activity disruptions and environmental conditions conducive to moisture related pests due to rainfall should be frequent due to the annual peak in the number of wet days in the islands and in Belize at least through November, as well as in the Guianas from late-November onwards.

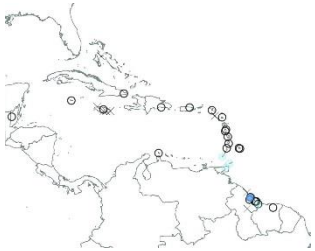
Wet spells frequency shifts

Forecast for: October to December 2021

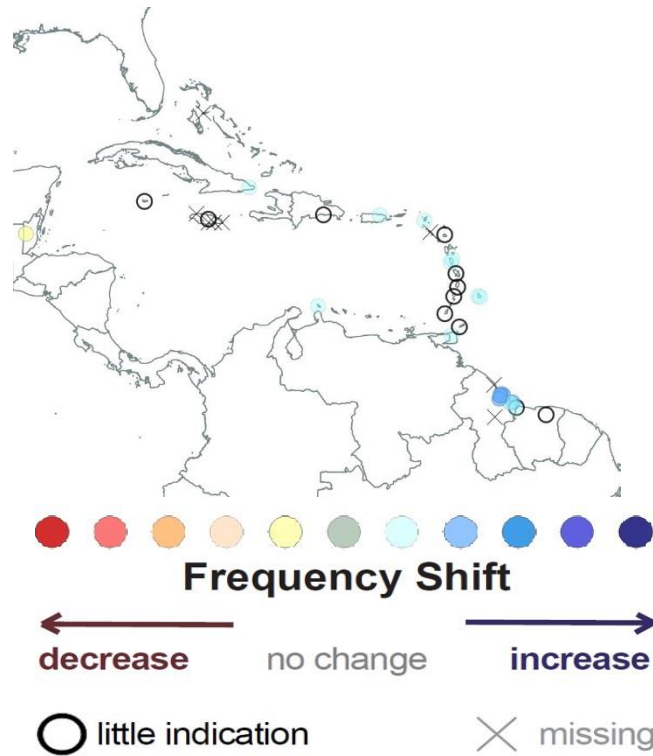
Precipitation outlook



Wet days outlook



OND 2021 frequency of 7-day wet spells



OND 2021 frequency of 7-day very wet spells



USUALLY: Between 3 and 6 wet spells (coastal Guianas: 1-4) occur from October to December, with 1 to 4 of them ending up very wet (coastal Guianas: up to 2).

FORECAST: At least the usual rainfall totals across most of the Antilles and western parts of the Guianas, but possibly drier than usual in Belize. This is accompanied by a slight increase in the number of wet days in Grenada, parts of coastal Guyana and Trinidad & Tobago (*low to medium confidence*).

A slightly higher than usual number of wet spells and very wet spells is expected in the coastal Guianas (*low to medium confid.*) and a small increase in wet spells or very wet spells is possible in the rest of the region (*low confid.*).

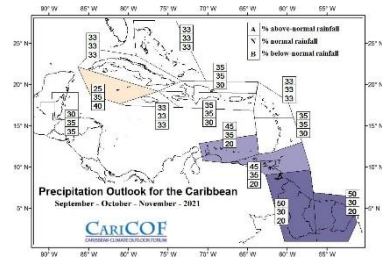
IMPLICATIONS:

- Effective recharge of large water reservoirs and increased soil moisture saturation in view of the many wet spells at least through November in the Caribbean Islands and in Belize.
- The chance of successive very wet spells translates to flood potential being high in the islands and Belize, and becoming high in the Guianas in late-November.

Extreme wet spells frequency shifts

Forecast for: October to December 2021

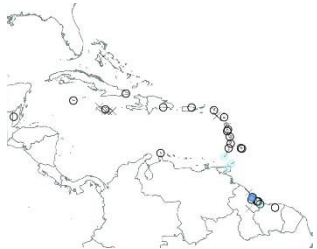
Precipitation outlook



OND 2021 frequency of *extreme (top 1%) 3-day wet spells*



Wet days outlook



Wet spells outlook



Very wet spells outlook



USUALLY: Up to 2 extreme wet spells occur from October to December (Guianas: up to 1).

FORECAST: At least the usual rainfall totals across most of the Antilles and western parts of the Guianas, but possibly drier than usual in Belize. This is accompanied by a slight increase in the number of wet days in Grenada, parts of coastal Guyana and Trinidad & Tobago (*low to medium confidence*).

A slightly higher than usual number of wet spells and very wet spells is expected in the coastal Guianas (*low to medium confid.*) and a small increase in wet spells, very wet spells or extreme wet spells is possible in the rest of the region (*low confid.*).

IMPLICATIONS:

- In view of the high chance of extreme wet spells in the islands and in Belize, the potential for flash floods and associated hazards is expected to be high or even extremely high, whereas, in the coastal Guianas, it is expected to increase from moderate to high in late-November.

October to December 2021

	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)	32-44	30-45	3-5.6	2.6-6.3	1.3-3.2	1.3-4	0-1	0-1.5
Aruba (Beatrix)	19-44	19-42	3.4-8.6	3.6-9.2	1.3-6.9	1.5-7.1	0-2.5	0-3
Barbados (CIMH)	35-48	35-50	3.5-5.6	3.2-6.3	1.3-3.9	1.5-4.4	0-2	0-2.4
Barbados (GAIA)	35-49	35-50	3.4-5.6	3.1-6.2	1.5-3.4	1.6-4.1	0-2	0-2.5
Belize (C. Farm)	33-49	32-50	2.8-5.4	2.4-5.7	1.5-2.6	1.5-3.1	0-1	0-1.7
Cayman	22-39	22-41	2.2-4.7	1.9-5.9	0.9-3.8	1-4	0-2.6	0-2.9
Cuba (Punta Maisi)	18-32	17-34	2.6-5.8	2.6-7.8	1.3-4.3	1.3-4.6	0-2	0-2.1
Dom. Republic (Las Americas)	25-35	23-37	2.4-4.8	1.9-5.5	0.4-3	0.6-3.5	0-2	0-1.5
Dominica (Canefield)	41-54	39-55	2.7-4.7	2.2-5.6	1-2.6	0.8-3	0-1.1	0-1.8
Dominica (Douglas Charles)	57-69	56-72	3-5.8	3-6.8	1.7-3.7	1.5-4	0-1.2	0-1.7
Grenada (MBIA)	33-48	34-50	3.4-5.6	3.1-5.9	1.6-3.4	1.5-4.2	0-2	0-2.5
Guyana_73	13-25	12-26	1.3-3.5	1.2-3.6	0.1-2.4	0.2-3	0-1.4	0-2.1
Guyana (Albion)	18-40	16-43	0.8-4.5	0.8-5.7	0-2.3	0.2-2.6	0-1.5	0-2
Guyana (Blairmont)	20-41	19-41	1.1-3.9	0.9-4.2	0.4-2.1	0.3-2.6	0-1	0-2
Guyana (Charity)								
Guyana (Enmore)	18-49	22-53	0.9-4.3	1.4-5.1	0.4-2.9	0.6-3.2	0-1.9	0-1.7
Guyana (Georgetown)	28-46	29-49	1.3-4.5	1.3-5.2	0.4-2.8	0.6-3.1	0-2	0-2.6
Guyana (Greatfall)								
Guyana (New Amsterdam)	23-40	21-40	1.1-3.9	0.9-4.7	0.4-2.3	0.4-2.7	0-1	0-2.1
Guyana (Skeldon)	26-39	25-42	1.3-3.8	1.6-4	0.4-2.1	0.6-2.3	0-2	0-1.4
Guyana (Timehri)	40-51	37-53	1.7-4.1	1.7-4.8	0.4-2.3	0.5-2.6	0-1	0-1.1
Guyana_Wales	30-48	34-53	1.7-4.4	1.9-5.1	0.4-2.6	0.9-3.2	0-1	0-1.3
Jamaica (Worthy Park)	24-39	22-41	2.6-5.1	2.3-5	1.1-2.6	1.1-3.4	0-1	0-1.7
Martinique (FDF Desaix)	51-61	49-65	3.4-6.2	2.9-6.6	1.5-3.2	1.4-3.7	0-2	0-1.6
Puerto Rico (San Juan)	39-52	36-55	3-6	2.9-6.2	0.9-3.4	1-3.9	0-1	0-0.9
St. Lucia (Hewanorra)	42-54	40-55	3-5.4	2.9-5.7	1.3-3.4	1.2-3.8	0-1.1	0-1.5
St. Maarten (TNCM)	37-50	34-51	3.1-5.6	2.9-6.4	1.5-3.9	1.4-3.9	0-2	0-2.7
St. Vincent (ET Joshua)	52-64	51-66	3.4-6.4	2.9-7.1	1.8-3.7	1.6-4.1	0-2	0-2.9
Suriname (Zanderij)	28-44	28-47	1.3-2.6	1.3-2.6	0-1.7	0.2-3.2	0-1	0-0.7
Tobago (ANR Robinson)	41-53	41-55	3-5.6	2.5-6.1	1.3-3.4	1.3-3.1	0-1	0-1.5
Trinidad (Piarco)	39-50	40-52	3.5-6	3.4-6.2	1.5-3.7	1.6-3.7	0-2	0-2.1

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



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