

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks September to November 2025

Coordination: Caribbean Institute for Meteorology & Hydrology

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Participating territories

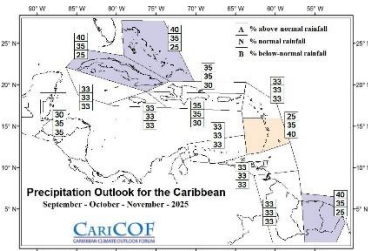
Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haïti, Jamaica, Aprtinique, Puerto Rico, St. Barth's, St. Kitts & Nevis, St. Lucia, St. Maarten/St. Aprtin, St. Vincent & the Grenadines, Suriname, Trinidad & Tobago and the US Virgin Islands



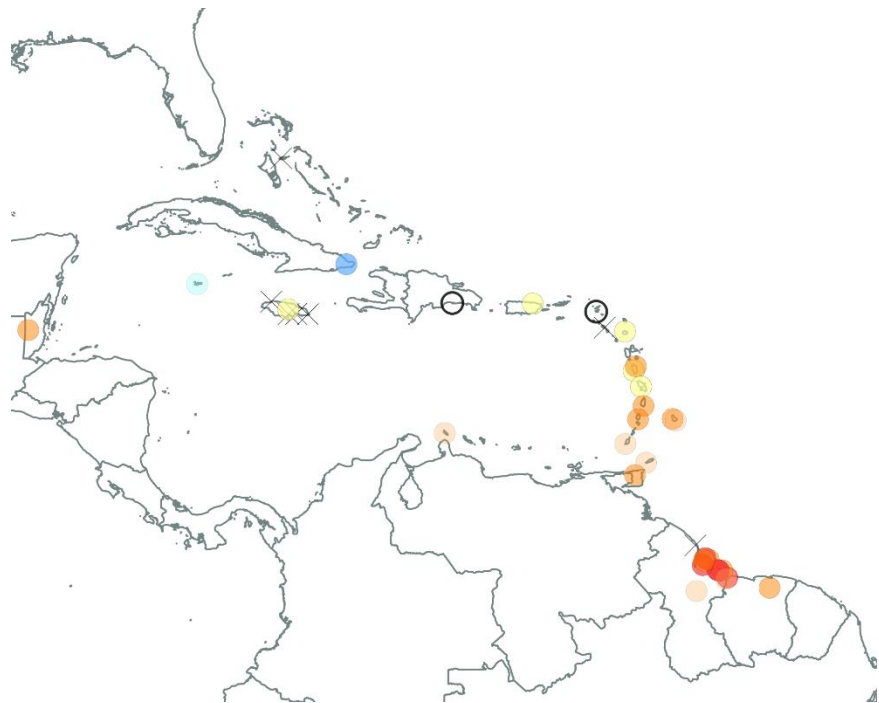
Wet day frequency shifts

Forecast for: September to November 2025

Precipitation outlook



SON 2025
Frequency of wet days



USUALLY: Out of 91 days in Sep-Oct-Nov, there are about 35 to 50 wet days (coastal Guianas: 20-35; ABC Islands: 10-20).

FORECAST: SON may be drier than usual in the Windward Islands, but wetter than usual in The Bahamas, Cuba, French Guiana, and Suriname.

- More wet days than usual may be expected in eastern Cuba and Cayman Is. (*low to medium confidence*), while a decrease in the number of wet days compared to the usual is expected elsewhere (*medium to high confidence*).

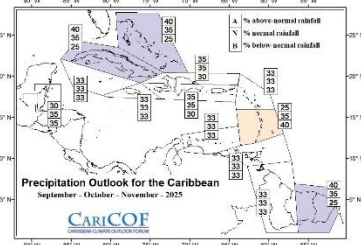
IMPLICATIONS:

- Few outdoor activity disruptions and increased wild-fire potential due to infrequent rainfall across the Guianas, but the annual peak in rainfall disruptions is likely to be subdued in Belize and the Lesser Antilles.
- Surface wetness with consecutive wet days could make environmental conditions more conducive to moisture-related pests across Belize and the islands, though the risk is somewhat reduced in most areas.

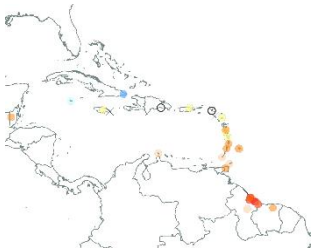
Wet spells frequency shifts

Forecast for: September to November 2025

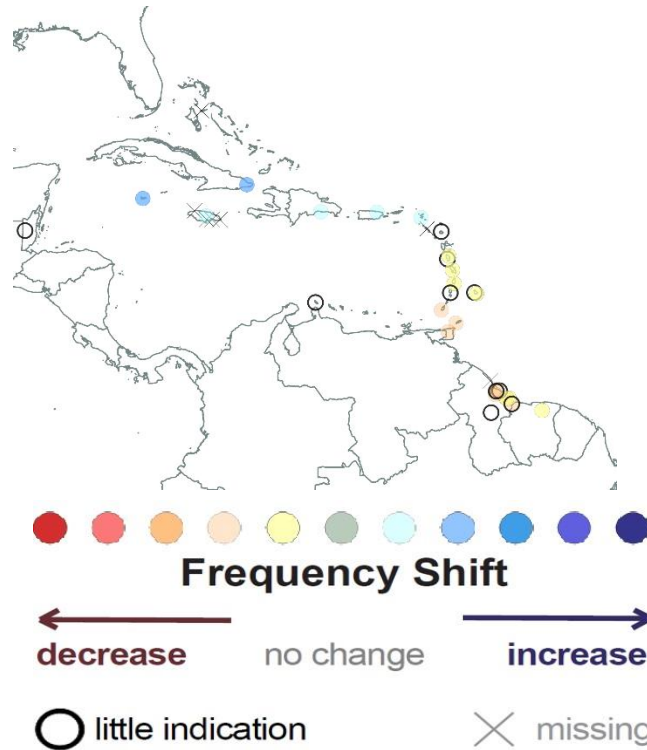
Precipitation outlook



Wet days outlook



SON 2025 frequency of 7-day wet spells



SON 2025 frequency of 7-day very wet spells



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

FORECAST: SON may be drier than usual in the Windward Islands, but wetter than usual in The Bahamas, Cuba, French Guiana, and Suriname.

- Slightly fewer wet spells are expected south of the Leeward Islands (*low to medium confidence*), but more wet spells are expected in the Greater Antilles (*low to medium confidence*).
- An increase from the usual numbers of very wet spells is expected across the region except in Trinidad and Tobago and Guyana (medium to high confidence) and, possibly, in Barbados and the Windward Islands (*low confidence*).

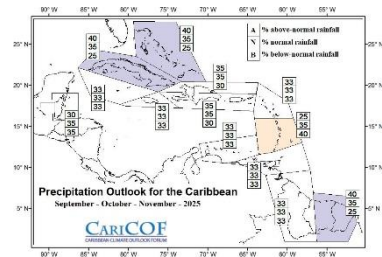
IMPLICATIONS:

- Recharge rates of large water reservoirs and soil moisture should be fast across Belize and the islands but may be even faster than usual in the Greater Antilles and the Leeward Islands due to a larger than usual number of wet spells.
- The chance of recurrent very wet spells translates to flood potential (1) being *high to extremely high* throughout the period in Belize and the islands; (2) *moderate* in the Guianas.

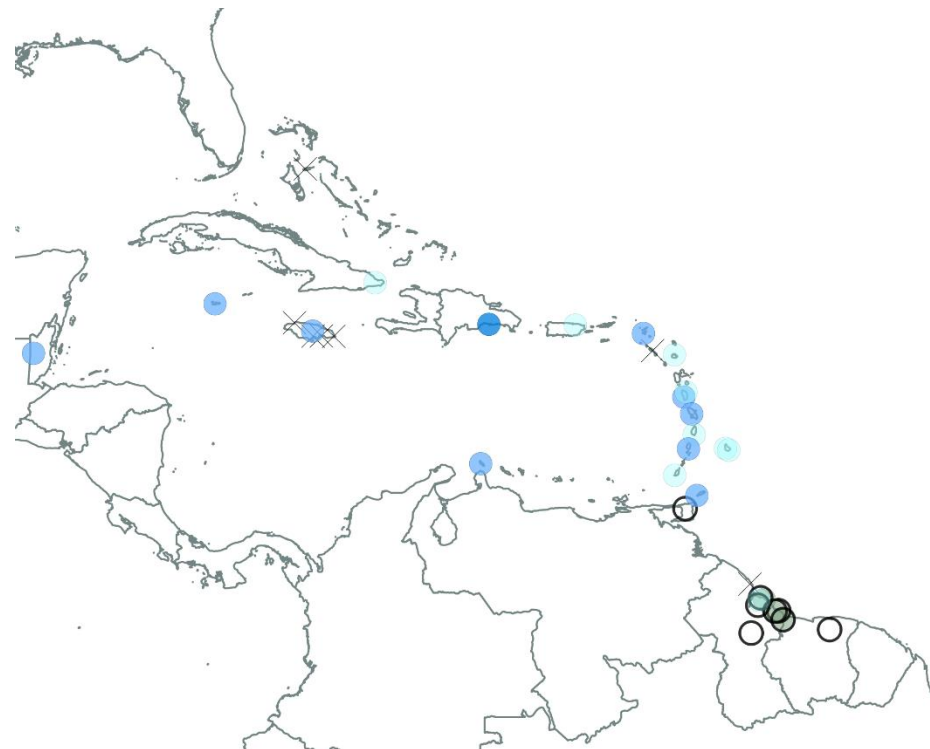
Extreme wet spells frequency shifts

Forecast for: September to November 2025

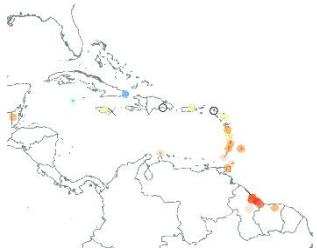
Precipitation outlook



SON 2025 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 September to November, except in the Guianas where it is the dry season.

FORECAST: SON may be drier than usual in the Windward Islands, but wetter than usual in The Bahamas, Cuba, French Guiana, and Suriname.

- An increase in the number of extreme wet spells is expected across the Antilles and Belize (*medium to high confidence*).

IMPLICATIONS:

- In view of the peak in the chance of occurrence of extreme wet spells in Belize and the islands, the potential for flash floods and associated hazards is expected to be *high to extremely high*.
- *Moderate* potential is expected in the Guianas.

September to November 2025

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 (Charity)
Guyana (Enmore)
Guyana (Georgetown)
Guyana (Greatfall)
Guyana (New Amsterdam)
Guyana (Skeldon)
Guyana (Timehri)
Guyana_Wales
Jamaica (Worthy Park)
Martinique (FDF Desaix)
Puerto Rico (San Juan)
St. Lucia (Hewanorra)
St. Maarten (TNCM)
St. Vincent (ET Joshua)
Suriname (Zanderij)
Tobago (ANR RobinOND)
Trinidad (Piarco)

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
31-44	30-44	3-4-6	2.8-6.9	1.7-4.1	1.4-7	0-1.5	0-2.3
14-30	10-28	2.6-6.9	2.1-7.4	1.3-5.1	1.1-7	0-2.5	0-3
39-50	34-48	4.3-6.9	3.4-7.2	2.1-4.3	2.2-5.1	0-3	0-3.3
40-49	37-48	4.3-6.5	3.8-6.9	2.1-4.1	2.1-4.9	0-2	0-3
31-48	28-48	3.3-5.6	3-6.2	1.7-3.4	2.2-5.2	0-2	0-2.2
29-46	29-49	3.9-6.2	3.7-7.3	1.7-4.3	2-5.6	0-2.6	0-3.1
17-31	18-37	2.8-6.2	3.3-7.5	1.3-4.7	1.8-6	0-2	0-2.2
29-38	25-42	3.4-6.2	3-7.3	1.3-4.3	1.6-6.1	0-2	0-2.8
42-54	39-54	3-5.8	2.6-6.5	1.8-3.5	1.3-4	0-2	0.2-2.4
57-69	52-67	3.8-6	3.5-6.5	1.9-3.7	2-4.7	0-1.2	0-2.3
36-49	33-47	3.9-6	3.2-6.1	1.8-3.9	1.4-4.2	0-1.5	0-2.2
10-19	6-15	0.4-2.8	0.3-2.6	0-1.5	0-1.2	0-0	0-0
11-26	5-22	0.4-2.6	0.3-2.4	0-0.9	0-1	0-0.4	0-0.4
13-30	6-23	0.4-2.1	0.3-2.2	0-1.3	0-1.5	0-0	0-0
12-34	9-27	0.4-2.6	0.5-2.6	0-1.3	0-1.1	0-0	0-0
19-36	13-29	0.5-3	0.4-2.4	0.2-1.5	0-1	0-1	0-0.8
24-40	21-38	0.7-2.6	0.6-2.6	0-1.3	0-1.2	0-0.1	0-0.5
16-28	8-24	0.4-2.6	0.3-2.8	0-1.7	0.1-1.9	0-1	0-0.8
15-32	12-30	0.4-2.6	0.7-2.9	0.4-1.3	0.2-1.3	0-1	0-0.5
31-42	23-38	1.3-3	1.2-2.8	0.4-1.7	0.5-2.1	0-0	0-0
29-46	26-47	3.3-5.6	3.2-6.8	1.8-3.4	1.5-4.8	0-2	0-2.4
53-62	48-62	4.1-6.4	3.7-7	2.4-3.9	1.9-3.9	0-2	0.2-2.7
39-52	37-51	3.4-5.6	3.2-6.9	1.3-3.4	1.8-4.8	0-1	0-1.5
44-54	40-51	4.1-5.8	3.6-6.1	2.1-3.9	1-3.6	0-2	0-2.2
38-50	36-52	3.5-6	3.2-7.1	1.7-3.4	1.8-5.3	0-2	0-2.3
54-66	49-63	3.9-6.6	3.6-7.5	1.8-3.9	1.6-4	0-2.8	0.2-3.2
22-35	19-34	0.9-2.1	0.8-2.1	0-1.3	0-2.4	0-0.4	0-0.2
43-54	39-51	3.5-6	2.7-5.7	1.7-3.4	0.8-2.7	0-1	0-1.6
41-51	36-51	3.9-6	3-5.8	2-3.4	1.1-3.2	0-2	0-2.4

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



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