

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks November to January 2024-25

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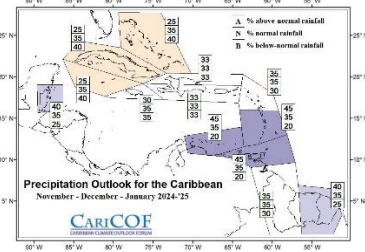
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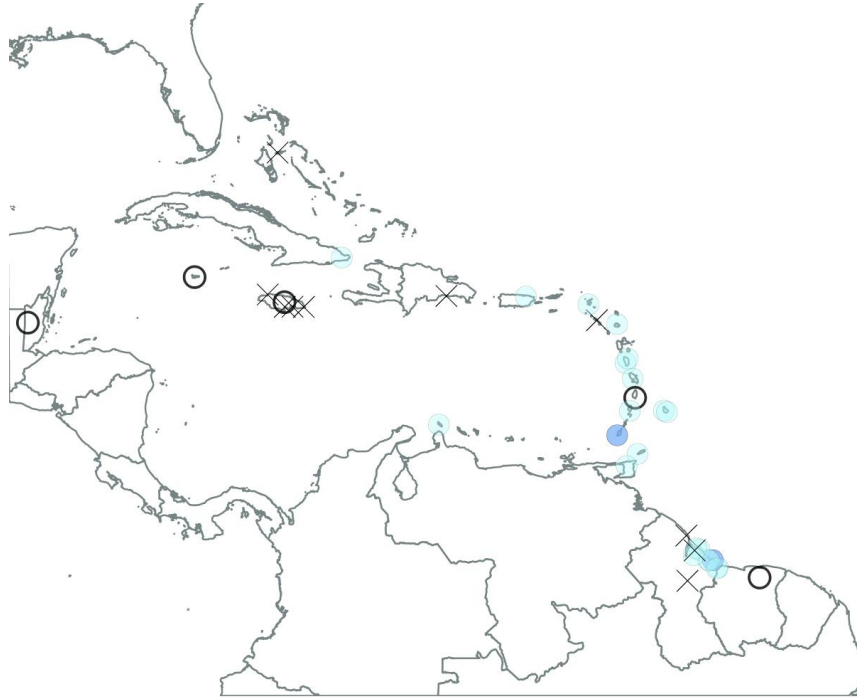
Wet day frequency shifts

Forecast for: November to January 2024-25

Precipitation outlook



Frequency of wet days



USUALLY: Out of 92 days in Nov-Dec-Jan, there are usually about 35 to 50 wet days (coastal Guianas: 30-55; ABC Islands: 20-45).

FORECAST: NDJ may be drier than usual in The Bahamas, Cayman Is., and Cuba, but at least as wet as usual elsewhere.

- *An increase in wet days is expected across the ABC islands, southeast Cuba, Guyana, and most of the Lesser Antilles, (low confidence).*

IMPLICATIONS:

- Outdoor activity disruptions and environmental conditions conducive to moisture related pests as rainfall should progressively decrease from December onwards in the Caribbean Islands and Belize, but rapidly increase in late-November or early-December in the Guianas.

Wet spells frequency shifts

Forecast for: November to January 2024-25

USUALLY: Between 2 and 5 wet spells occur from November to January, with 1 to 3 of them ending up very wet (coastal Guianas: up to 3).

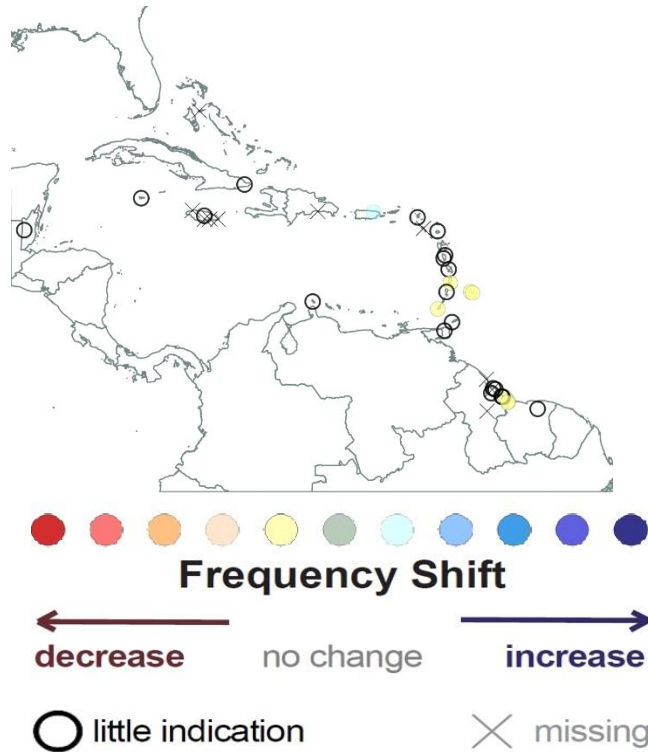
FORECAST: NDJ may be drier than usual in The Bahamas, Cayman Is., and Cuba, but at least as wet as usual elsewhere.

- *Little change is expected in the number of 7-day wet spells and 7-day very wet spells across the region (low confidence).*

IMPLICATIONS:

- Recharge rates of large water reservoirs and soil moisture by wet spells may be even faster than usual in the Lesser Antilles through the end of the year and coastal Guianas throughout the period.
- The chance of recurrent very wet spells translates to flood potential (1) being *high* through December in Belize and the islands, particularly in the Windward Is.; (2) increasing from *moderate* to *high* in the coastal Guianas after November.

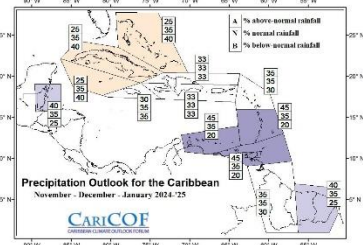
frequency of 7-day wet spells



frequency of 7-day very wet spells



Precipitation outlook



Wet days outlook



Extreme wet spells frequency shifts

Forecast for: November to January 2024-25

USUALLY: Up to 2 extreme wet spells occur from November to January (Belize and the Greater Antilles up to 1).

FORECAST: NDJ may be drier than usual in The Bahamas, Cayman Is., and Cuba, but at least as wet as usual elsewhere.

- *The usual or a slight increase in the chance of extreme wet spells is expected across the region (low confidence).*

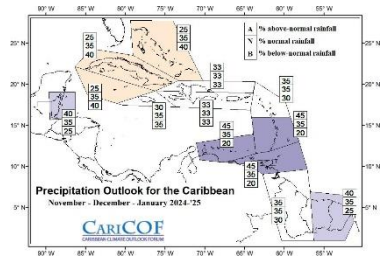
IMPLICATIONS:

- The high chance of extreme wet spells in Belize and the islands through December translates to a *high to extremely high* potential for flash floods and associated hazards, steadily decreasing in January.
- Apart from far southwestern Guyana, the Guianas an increase in flash flood potential from *moderate or high* in early-November to *extremely high* by December is forecast.

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



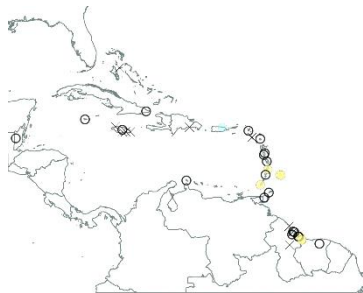
Precipitation outlook



Wet days outlook



Wet spells outlook



Very wet spells outlook



November to January 2024-25

	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)	29-44	29-46	2.1-4.7	1.9-4.6	0.9-2.6	0.7-2.7	0-1	0-1
Aruba (Beatrix)	19-45	20-47	2.6-8.2	2.8-7.7	0.9-5.6	1.3-5.7	0-2.1	0-2.9
Barbados (CIMH)	30-47	31-48	1.7-4.7	1.5-4.4	0.9-2.7	0.9-3.4	0-1	0-1.6
Barbados (GAIA)	32-45	30-47	2.1-4.8	1.7-4.4	0.9-3	0.8-3.1	0-1.1	0-1.9
Belize (C. Farm)	30-46	25-47	1.7-5.1	2-4.8	0.9-2.7	0.7-2.4	0-1	0-1.2
Cayman	18-26	14-33	0.9-3.1	0.7-3.7	0.4-2.1	0.1-2	0-1.1	0-1.8
Cuba (Punta Maisi)	17-28	16-32	2.6-4.7	2.5-5.1	0.9-2.6	0.8-3.1	0-1	0-1.4
Dom. Republic (Las Americas)								
Dominica (Canefield)	41-53	40-56	1.9-3.5	1.5-4.4	0.6-2.2	0.6-2.1	0-1	0-1.1
Dominica (Douglas Charles)	55-66	54-71	1.7-4.7	1.9-5.2	0.5-2.6	0.7-3.1	0-1	0-1.4
Grenada (MBIA)	30-43	30-52	2.1-5	1.9-5.1	0.9-2.7	0.9-3.6	0-1.2	0-2.1
Guyana_73	15-32	17-36	1.3-4.7	1.1-3.7	0.4-3.1	0.4-2.6	0-2	0-1
Guyana (Albion)	27-48	29-52	1.3-5.1	1.3-4.5	0.4-3	0.7-3	0-1	0-1.5
Guyana (Blairmont)	31-55	32-54	1.7-4.7	1.6-4.3	0.5-2.6	0.8-3	0-2	0-1.3
Guyana (Charity)								
Guyana (Enmore)	27-52	31-59	1.7-5	1.8-5	0.9-3.4	1.2-3.6	0-1.5	0-1.6
Guyana (Georgetown)	37-59	39-59	1.3-5.6	1.4-5.2	0.9-4	0.9-4.2	0-3	0-2.8
Guyana (Greatfall)								
Guyana (New Amsterdam)	30-51	33-54	1.7-4.3	1.4-4.2	0.7-3	0.9-3.3	0-2	0-2
Guyana (Skeldon)	32-45	30-51	1.7-4.4	1.3-3.9	0.4-2.6	0.5-2.5	0-1.7	0-1.4
Guyana (Timehri)	40-64	45-64	1.7-5.2	1.7-4.8	0.9-3.1	0.8-3.5	0-1	0-1.7
Guyana_Wales								
Jamaica (Worthy Park)	21-28	17-31	1.6-3	1.2-3.1	0-2.1	0.1-2	0-1	0-0
Martinique (FDF Desaix)	49-62	48-67	2.6-4.7	1.7-5.3	0.9-2.6	0.8-2.6	0-1	0-1.3
Puerto Rico (San Juan)	37-51	37-56	2.6-5	2.8-5.8	0.9-2.6	1.1-3.2	0-1	0-1.5
St. Lucia (Hewanorra)	38-50	36-54	1.7-3.6	1.7-4.6	0.9-2.6	0.7-2.8	0-1	0-1.4
St. Maarten (TNM)	34-51	33-54	2.1-5.2	2.3-5.8	1.3-3.1	1.1-3.4	0-1	0-2.7
St. Vincent (ET Joshua)	50-66	50-66	2.1-4.8	1.6-5	0.9-2.7	1-3.2	0-1.1	0-1.8
Suriname (Zanderij)	39-52	37-55	1.7-3.5	1.5-3.4	0.4-1.7	0.5-2.8	0-1	0-1.4
Tobago (ANR RobinNDJ)	36-51	37-52	2.1-4.3	1.3-4.6	0.9-2.6	1-2.4	0-1	0-1.3
Trinidad (Piarco)	36-46	35-49	2.6-4.6	2.2-5	1.3-3	0.9-3.2	0-1	0-1.7

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



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