

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks November to January 2022-'23

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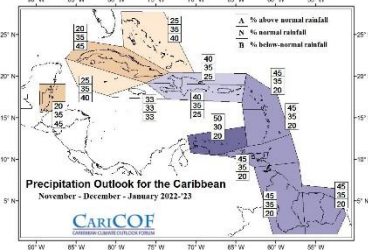
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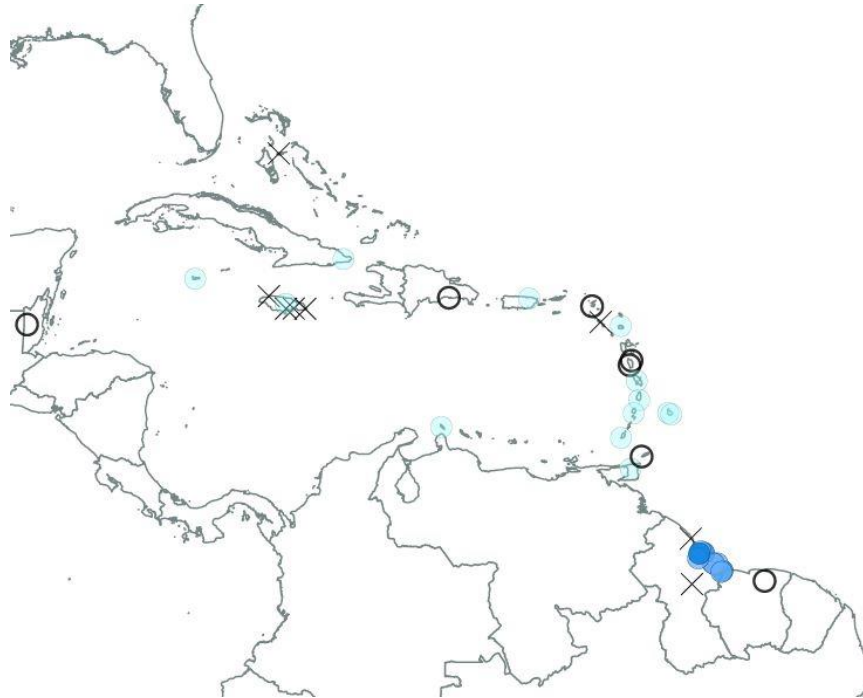
Wet day frequency shifts

Forecast for: November to January 2022-'23

Precipitation outlook



NDJ 2022-'23
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).

SEASONAL RAINFALL FORECAST:

- At least the usual rainfall totals east of and including Hispaniola, but possibly drier than usual westward of Hispaniola.

SEASONAL WET DAY FORECAST (day when rainfall > 1mm):

- An increase in the number of wet days may be expected across most of the islands (*low confidence*) and along coastal Guyana (*medium confidence*).

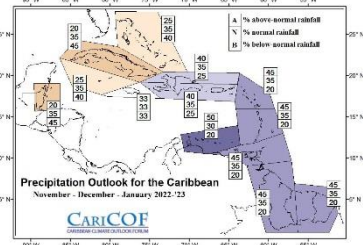
IMPLICATIONS:

- Decreasing seasonal surface wetness makes environmental conditions progressively less conducive to mosquitoes & moisture related pests Belize and the islands.

Wet spells frequency shifts

Forecast for: November to January 2022-'23

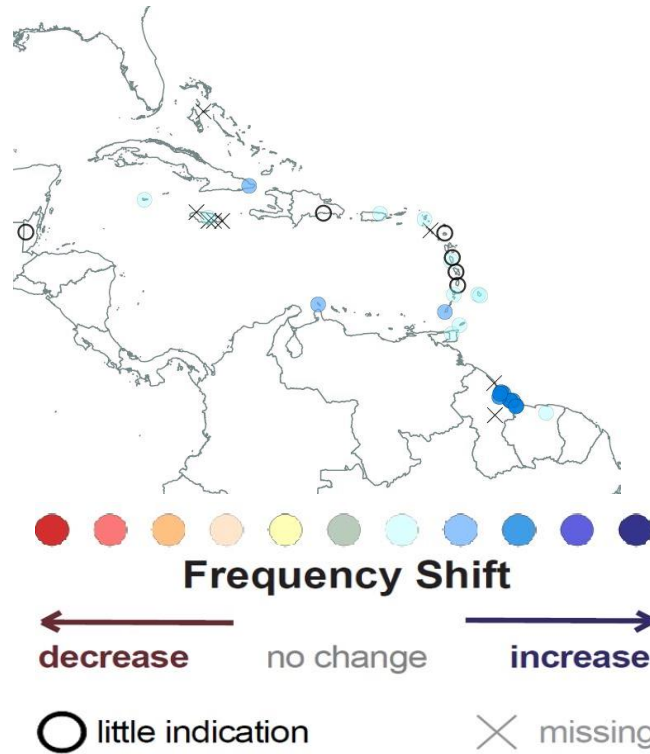
Precipitation outlook



Wet days outlook



NDJ 2022-'23 frequency of 7-day wet spells



NDJ 2022 frequency of 7-day very wet spells



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).

SEASONAL RAINFALL FORECAST:

- At least the usual rainfall totals east of and including Hispaniola, but possibly drier than usual westward of Hispaniola.

WET SPELL FORECAST (top 20% of 7-day wet spells):

- More wet spells than usual are forecast across most of the islands (*low confidence*) and in the coastal Guianas (*high confidence*).

VERY WET SPELL FORECAST (top 10% of 7-day wet spells):

- More very wet spells than usual are forecast across most of the islands (*low confidence*) and in the coastal Guianas (*medium confidence*).

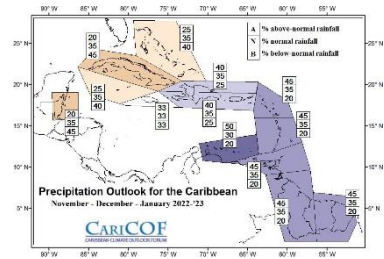
IMPLICATIONS:

- Flash flood and long-term flooding potential remain a concern across Belize, the Islands and, from late-November, the coastal Guianas due to very wet spells and extreme wet spells.

Extreme wet spells frequency shifts

Forecast for: November to January 2022-'23

Precipitation outlook



NDJ 2022-'23 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 November to January (Belize and the Greater Antilles up to 1).

SEASONAL RAINFALL FORECAST:

- At least the usual rainfall totals east of and including Hispaniola, but possibly drier than usual westward of Hispaniola.

EXTREME WET SPELL FORECAST (top 1% of 3-day wet spells):

- An increase in the number of 3-day extremely wet spells may be expected across most of the region (*low to medium confid.*) except in Martinique and Saint Lucia where fewer are expected (*low confid.*).

IMPLICATIONS:

- Land slide, rock fall and widespread soil erosion potential remain a concern across Belize, the Islands and, from late-November, the coastal Guianas due to extreme wet spells.

November to January

2022-'23

	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)	31-44	31-46	2.6-5.2	2.2-5.3	1.1-2.8	0.9-3.1	0-1	0-1.4	brown is a decrease in frequency, light blue an increase, grey none are expected
Aruba (Beatrix)	19-44	20-48	3.1-8.4	3.5-10.7	1.1-6	1.5-7.7	0-2.5	0-2.6	
Barbados (CIMH)	33-48	33-50	2.6-5.2	2.4-6	1.1-3.3	1.1-3.7	0-1.5	0-2	
Barbados (GAIA)	34-47	32-48	2.6-5.2	2.5-5.8	1.1-3.2	1.2-3.9	0-2	0-2	
Belize (C. Farm)	31-47	30-49	2.2-5.4	2.1-5.6	1.1-2.7	1-2.8	0-1	0-1	
Cayman	20-33	21-36	1.5-3.9	1.6-5.1	0.7-2.9	1-3.5	0-1.8	0-2.1	
Cuba (Punta Maisi)	17-29	17-32	2.6-5.2	2.9-6.5	1.1-3.5	1.1-4.2	0-1.5	0-1.7	
Dom. Republic (Las Americas)	23-31	21-34	2.2-4.2	1.6-4.8	0.4-2.4	0.5-2.9	0-1.5	0-1.2	
Dominica (Canefield)	41-54	40-55	2.4-4.1	1.9-4.9	0.8-2.4	0.7-2.6	0-1.1	0-1.2	
Dominica (Douglas Charles)	56-68	56-70	2.4-5.3	2.3-5.8	1.1-3.2	1-2.9	0-1.1	0-1.6	
Grenada (MBIA)	32-46	32-48	2.8-4.9	2.7-5.8	1.1-3	1.2-3.8	0-1.6	0-1.7	
Guyana_73	13-27	16-30	1.3-3.9	1.5-4	0-2.6	0.6-3	0-1	0-0.9	
Guyana (Albion)	23-45	24-51	1.2-4.7	1.4-7.1	0.2-2.6	0.7-4.3	0-1	0-1.8	
Guyana (Blairmont)	25-48	28-52	1.4-4.4	1.7-6	0.5-2.4	0.8-4.5	0-1.5	0-2.2	
Guyana (Charity)									
Guyana (Enmore)	18-49	25-57	0.9-4.3	1.7-5.9	0.4-2.9	0.8-3.6	0-1.9	0-1.9	
Guyana (Georgetown)	33-53	36-58	1.3-5	1.7-7.1	0.7-3.6	1-5	0-2.5	0-2.9	
Guyana (Greatfall)									
Guyana (New Amsterdam)	27-46	28-50	1.5-4.1	1.6-6	0.6-2.6	1-4.2	0-1.5	0-2.3	
Guyana (Skeldon)	26-39	27-44	1.3-3.8	1.7-4.5	0.4-2.1	0.6-2.4	0-2	0-1.5	
Guyana (Timehri)	40-57	41-62	1.7-4.7	2-6.3	0.7-2.8	0.8-3.8	0-1	0-1.4	
Guyana_Wales	30-48	36-56	1.7-4.4	2.3-5.7	0.4-2.6	1-3.5	0-1	0-1.7	
Jamaica (Worthy Park)	23-34	23-36	2.2-4.1	2.1-4.2	0.7-2.4	0.9-3.1	0-1	0-1	
Martinique (FDF Desaix)	50-62	50-66	3-5.4	2.3-6.2	1.1-2.8	0.9-2.5	0-1.5	0-1.2	
Puerto Rico (San Juan)	39-52	37-56	2.8-5.6	2.9-5.9	0.9-3	1-3.2	0-1	0-1.2	
St. Lucia (Hewanorra)	41-52	39-55	2.4-4.6	2.3-5.2	1.1-3	0.8-2.6	0-1.1	0-0.8	
St. Maarten (TNCM)	35-51	35-53	2.4-5.6	2.6-6.5	1.5-3.7	1.1-3.1	0-1.5	0-2.6	
St. Vincent (ET Joshua)	51-65	51-67	2.8-5.6	2.5-6.3	1.4-3.3	1.2-3	0-1.5	0-1.8	
Suriname (Zanderij)	28-44	29-48	1.3-2.6	1.3-2.8	0-1.7	0.2-3.3	0-1	0-0.7	
Tobago (ANR Robinson)	39-52	39-53	2.6-4.7	2.1-5.5	1.1-2.8	0.9-2.4	0-1	0-1.5	
Trinidad (Piarco)	38-48	36-49	3-5.2	2.9-5.9	1.5-3.5	1.2-3.4	0-1.5	0-2-2	



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