

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks July to September 2024

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Wet day frequency shifts

Forecast for: July to September 2024

JAS 2024
Frequency of wet days

USUALLY: Out of 92 days in Jul-Aug-Sep, there are about 35 to 59 wet days in relatively flat areas of Belize and the islands, but 50 to 65 in mountainous areas and in coastal Guianas (ABC Islands: 5-15).

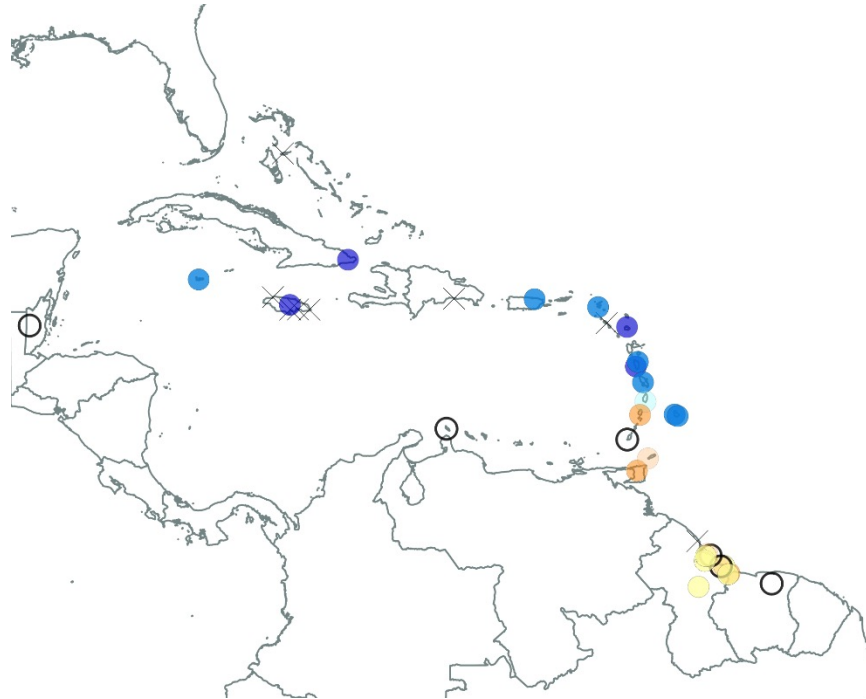
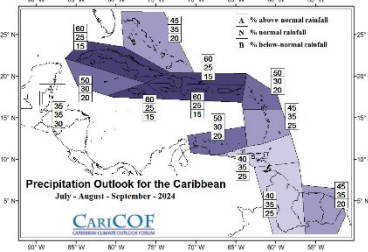
FORECAST: JAS is likely to be at least as wet as usual across the region.

- A higher number of wet days than usual may be expected across most of the region (medium to high confidence), with the likely exception of St. Vincent, Trinidad & Tobago, and Guyana where fewer wet days than usual are expected (low to medium confidence).*

IMPLICATIONS:

- Frequency of outdoor activity disruptions due to rainfall should be increasing significantly, but decreasing in August in the Guianas.
- Increasing surface wetness could make environmental conditions more conducive to moisture related pests but, at the same time, largely prevent wildfires.

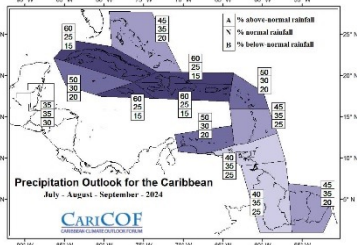
Precipitation outlook



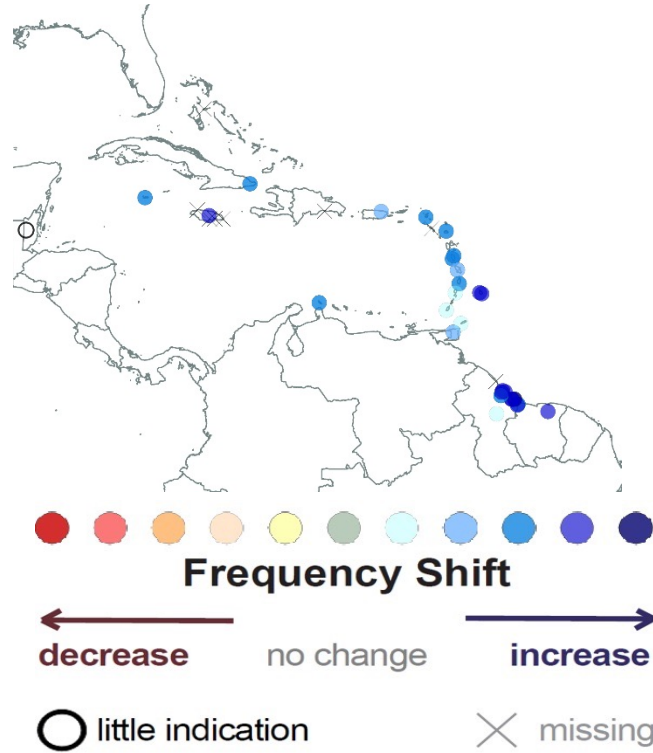
Wet spells frequency shifts

Forecast for: July to September 2024

Precipitation outlook



JAS 2024 frequency of 7-day wet spells



JAS 2024 frequency of 7-day very wet spells



USUALLY: 3 to 6 wet spells (ABC Islands: up to 3) occur from July to September, with 1 to 3 of them ending up very wet (ABC Islands: up to 2).

FORECAST: JAS is likely to be at least as wet as usual across the region.

- *A higher number of wet spells and very wet spells than usual may be expected across the region (medium to high confidence).*

IMPLICATIONS:

- Accelerating recharge rates of large water reservoirs and soil moisture throughout the region in view of the more frequent than usual number of wet spells.
- The chance of recurrent very wet spells translates to flood potential (1) increasing from moderate to high in August and September in Belize and the islands; (2) decreasing from high to moderate in August in the Guianas as the dry season starts.

Extreme wet spells frequency shifts

Forecast for: July to September 2024

USUALLY: Up to 1 extreme wet spells occur between July to September in most places, but up to 2 in mountainous areas.

FORECAST: JAS is likely to be at least as wet as usual across the region.

- *The chance for one or more extreme wet spells is at least as high as usual across the region (low confidence).*

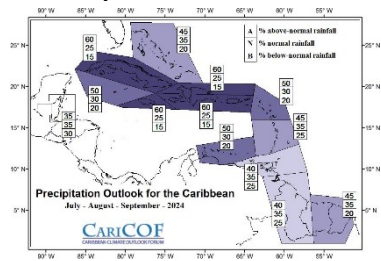
IMPLICATIONS:

- In view of the chance of extreme wet spells increasing towards August in Belize and the islands the potential for flash floods and associated hazards is expected to increase from moderate to high. The inverse trend is expected in the Guianas by the end of August.

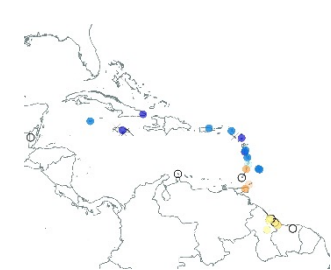
JAS 2024 frequency of extreme (top 1%) 3-day wet spells



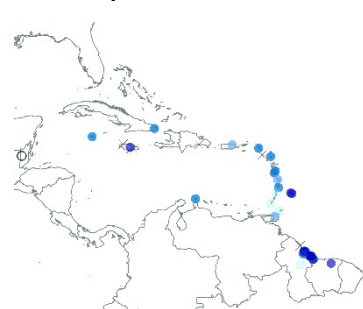
Precipitation outlook



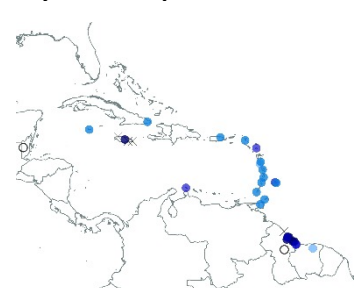
Wet days outlook



Wet spells outlook



Very wet spells outlook



July to September 2024

	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)	29-42	35-51	2.6-5.1	3.1-6.7	0.9-3	1.5-5.4	0-1
Aruba (Beatrix)	6-17	5-19	1.3-4	1.3-5.7	0.4-2.2	0.7-4	0-1	0-1
Barbados (CIMH)	37-49	38-53	3.4-6.4	4.4-8.1	1.5-3.4	2-5.4	0-1	0-1.3
Barbados (GAIA)	39-49	41-54	3.9-6.5	4.5-8.1	1.7-3.9	1.6-4.9	0-1.1	0-1.5
Belize (C. Farm)	36-49	34-51	2.7-5.6	3-6.5	1.3-3.4	1.2-3.8	0-1.1	0-1.5
Cayman	31-46	31-51	3.4-6.4	3.8-8.6	1.3-3.5	1.6-5.6	0-1	0-1.4
Cuba (Punta Maisi)	10-18	14-25	1.3-3.9	1.5-5.6	0.4-1.8	0.6-2.5	0-1	0-1.1
Dom. Republic (Las Americas)								
Dominica (Canefield)	52-65	55-71	3.7-7.4	3.9-9.3	1.8-5.5	1.5-7.3	0-2.5	0-2.4
Dominica (Douglas Charles)	56-70	59-78	3-6.9	3.7-7.9	0.9-3.4	1.4-5.5	0-1	0-1.1
Grenada (MBIA)	39-48	36-51	3.8-6.4	3.2-6.8	1.7-3.7	1.2-5.5	0-2	0-1.7
Guyana_73	17-26	14-25	1.7-3.9	1.8-5.5	0.4-2.6	1.1-4.2	0-0.1	0-0.2
Guyana (Albion)	26-42	22-41	2.1-4.8	3.2-7.3	0.9-3	1.4-4.9	0-1	0-1
Guyana (Blairmont)	33-46	29-44	2.1-5.1	2.8-7.4	0.9-2.6	1.4-4.7	0-1	0-0.9
Guyana (Charity)								
Guyana (Enmore)	28-42	24-47	1.7-4.3	2.4-6.9	0.4-2.7	1.5-5.3	0-1	0-0.6
Guyana (Georgetown)	35-51	30-50	1.7-4.3	2.3-6.4	0.4-2.6	1.1-4.5	0-1	0-0.3
Guyana (Greatfall)	34-52	32-55	1.8-5.4	2-6.2	0.9-2.6	0.6-3.3	0-1	0-1.4
Guyana (New Amsterdam)	31-44	30-45	1.7-5.1	2.8-7.2	0.9-2.6	1.6-4.8	0-1	0-0.8
Guyana (Skeldon)	32-38	29-39	2.1-3.9	2.5-5.6	0.9-2.6	1.1-4.1	0-1	0-1.8
Guyana (Timehri)	45-58	42-58	2.1-4.7	2.7-5.9	0.9-2.6	1.4-4.6	0-1	0-0.7
Guyana_Wales								
Jamaica (Worthy Park)	29-42	32-50	2.6-5.6	3.3-7.8	0.9-3.1	2-7	0-2	0-2.4
Martinique (FDF Desaix)	52-64	53-68	3.9-7.3	3.9-7.6	1.7-3.9	1.5-4.6	0-1.1	0-1.7
Puerto Rico (San Juan)	36-50	40-58	3-5.6	3.2-6.8	0.9-3.5	1.5-4.7	0-1	0-1.6
St. Lucia (Hewanorra)	44-59	44-60	3.4-5.6	3.8-7.2	1.7-3.4	1.5-4.7	0-1	0-1.4
St. Maarten (TNM)	33-49	34-55	2.3-5.6	2.7-6.6	0.9-3.1	1-4.1	0-1	0-1.3
St. Vincent (ET Joshua)	56-65	50-61	3.4-5.6	3.4-6	1.3-3.4	1.4-3.8	0-1.1	0-1.3
Suriname (Zanderij)	36-51	34-52	1.7-3.4	2.2-4.9	0.9-1.7	0.7-2.9	0-1	0-1.6
Tobago (ANR Robinson)	47-59	45-57	3.9-6.5	3.9-7.4	1.5-3.5	1.4-4.3	0-1	0-1.5
Trinidad (Piarco)	35-53	33-51	3.4-5.6	3.2-6.2	1.7-3.4	1.7-3.7	0-1	0-1.3

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



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