

# Rainfall frequency and extreme forecasts

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## Wet days and Wet spells Outlooks June to August 2024

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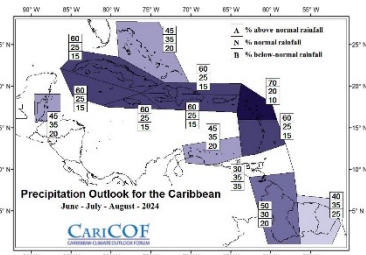
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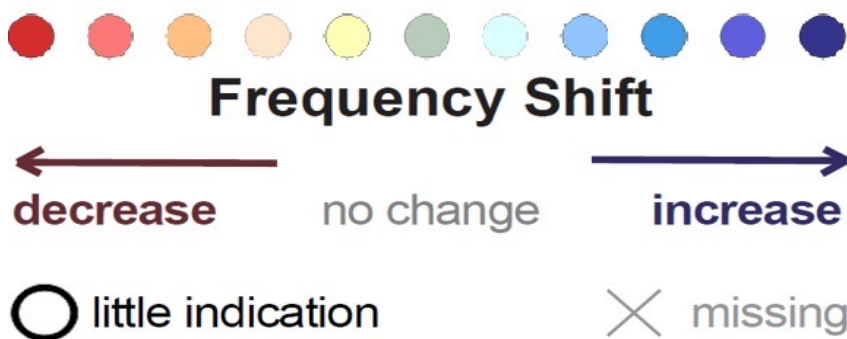
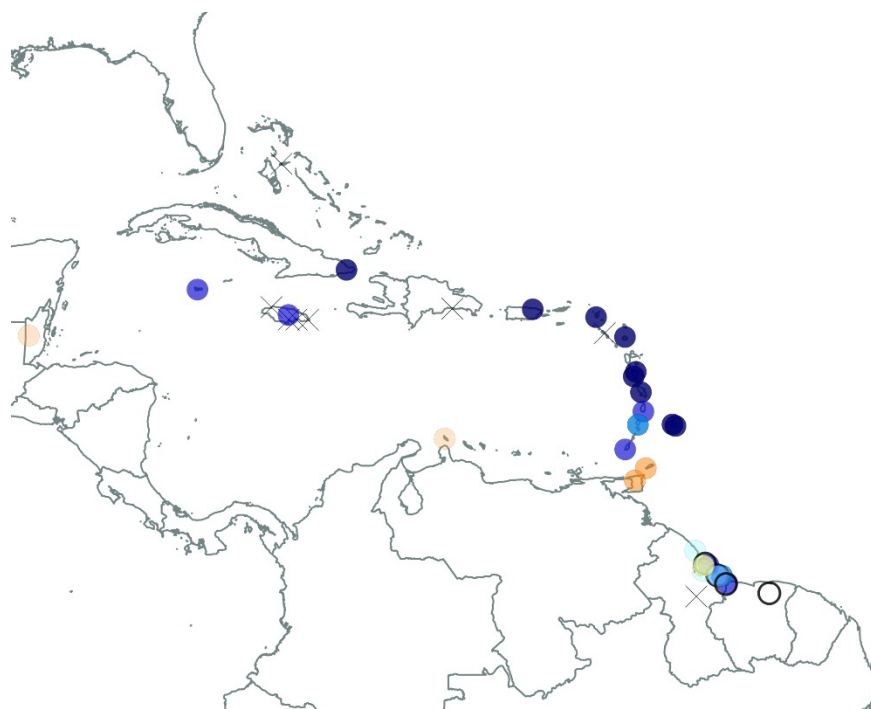
# Wet day frequency shifts

## Forecast for: June to August 2024

### Precipitation outlook



### JJA 2024 Frequency of wet days



**USUALLY:** Out of 92 days in June-July-August, there are about 30 to 45 wet days in relatively flat areas of Belize and the islands, but 50 to 65 in mountainous areas and in the coastal Guianas (ABC Islands: 5-15).

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

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

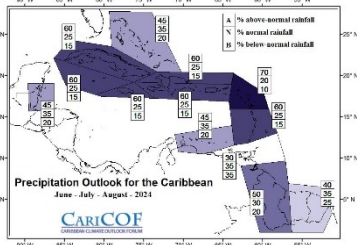
### IMPLICATIONS:

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

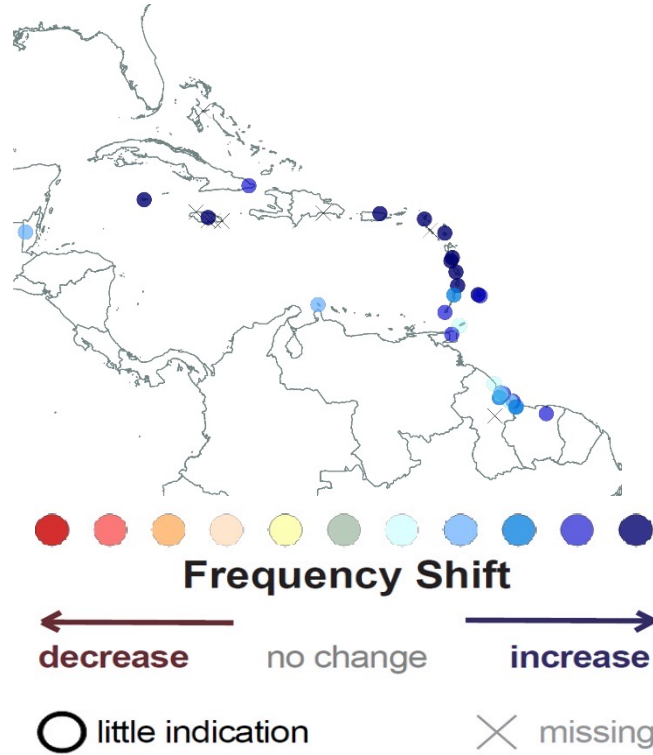
# Wet spells frequency shifts

## Forecast for: June to August 2024

### Precipitation outlook



### JJA 2024 frequency of 7-day wet spells



### JJA 2024 frequency of 7-day very wet spells



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

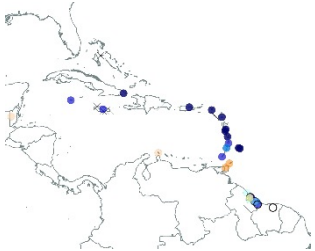
**FORECAST:** JJA is likely to be at least as wet as usual across the region.

- *A larger 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 faster than usual increasing number of wet spells into the wet season.
- The chance of recurrent very wet spells translates to flood potential (1) increasing from moderate in June and July to high in August in Belize and the islands; (2) decreasing from high to moderate in August in the Guianas.

### Wet days outlook



# Extreme wet spells frequency shifts

## Forecast for: June to August 2024

**USUALLY:** Up to 1 extreme wet spell occurs between June to August (ABC Islands: up to 1).

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

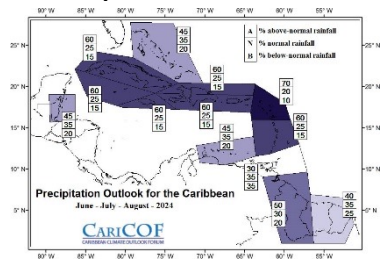
### JJA 2024 frequency of extreme (top 1%) 3-day wet spells

- *A higher than usual chance for one or more extreme wet spells may be expected across the region (medium to high confidence) except along parts of northern Guyana.*

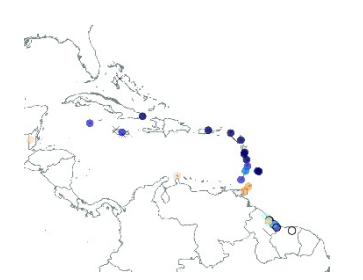
#### IMPLICATIONS:

- 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.

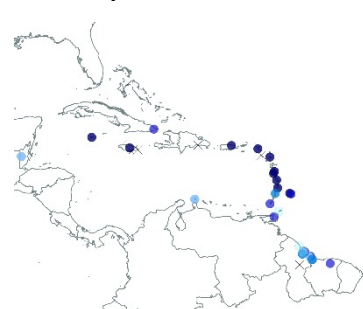
Precipitation outlook



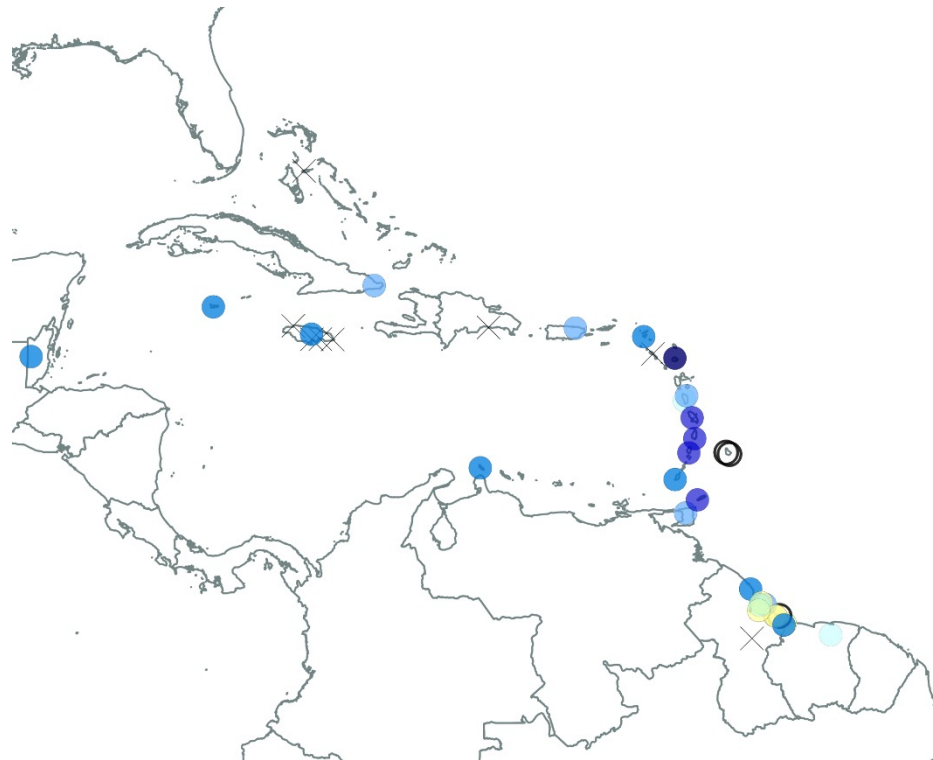
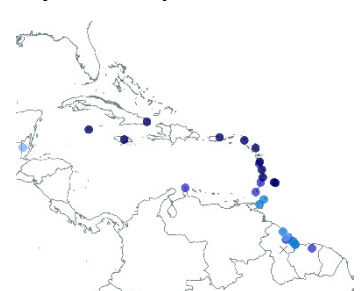
Wet days outlook



Wet spells outlook



Very wet spells outlook



# June to August 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)	13-23	28-42	1.7-4.7	3.4-7.8	0.9-3.1	1.5-5.1	0-1	0-2.1
Aruba (Beatrix)	3-9	4-11	0.4-3.4	1-4.4	0-2.1	0.5-3	0-0.1	0-1.1
Barbados (CIMH)	17-27	31-45	2.6-6.4	4.8-9.9	0.9-3	2-6.1	0-1	0-0.9
Barbados (GAIA)	19-25	32-44	3-5.6	4.3-7.3	0.9-2.6	1.7-5.4	0-1	0-1.4
Belize (C. Farm)	18-26	23-36	2.6-5.6	2.9-7.6	1.3-3.4	1.2-4.8	0-1.2	0-2.3
Cayman	14-23	25-43	3-6.1	4.3-10.6	0.9-3.6	2.2-8.9	0-1	0-1.5
Cuba (Punta Maisi)	4-8	9-21	0.9-3.4	1.6-5.3	0-1.4	0.5-3.5	0-1	0-1
Dom. Republic (Las Americas)								
Dominica (Canefield)	26-36	44-65	4-7	5.2-9.7	1.7-4.6	2.1-8.4	0-1.3	0-1.7
Dominica (Douglas Charles)	27-36	47-66	2.2-5.6	3.9-8.4	0.9-3	1.6-5.8	0-0	0-0.3
Grenada (MBIA)	22-27	34-47	3.9-6.1	4.5-8.3	1.7-3.5	1.6-6.2	0-1	0-2.1
Guyana_73	13-19	20-34	3.4-5.6	3-6.7	1.3-3.4	1.6-5.3	0-1	0-0.9
Guyana (Albion)	19-28	30-44	3.4-6.7	4.3-7.8	1.7-3.6	1.7-4.9	0-1	0-1.7
Guyana (Blairmont)	23-32	33-46	3.4-6.9	3.4-8.1	1.3-3.9	0.8-4.7	0-1	0-1.4
Guyana (Charity)								
Guyana (Enmore)	21-30	34-52	3-6	3.8-8.4	1.1-3.4	1.2-6.2	0-1	0-1.6
Guyana (Georgetown)	26-33	36-50	3.2-5.6	3.2-7.1	1.3-3	1.3-4.2	0-1	0-0.5
Guyana (Greatfall)								
Guyana (New Amsterdam)	24-31	34-46	3.8-6.1	3.3-7.4	1.3-3.1	1.6-4.7	0-1	0-1
Guyana (Skeldon)	23-28	33-42	3.1-6.1	3.5-7.3	1.3-3.9	1.3-5.3	0-1.6	0-2.5
Guyana (Timehri)	28-35	41-53	3.4-5.7	3.8-7.6	1.3-3.5	1.6-6	0-1	0-1.2
Guyana_Wales								
Jamaica (Worthy Park)	13-21	22-42	2.1-4.8	3.3-8.5	1.1-3	1.8-5.9	0-1.1	0-2.4
Martinique (FDF Desaix)	26-33	43-57	3-6	5.2-8.8	1.3-3.1	2.3-4.4	0-1	0-2.7
Puerto Rico (San Juan)	17-28	32-55	2.6-5.6	3.7-8.1	1.3-3.4	1.9-5.9	0-1	0-1.9
St. Lucia (Hewanorra)	21-30	35-53	3-5.6	5.1-8.9	0.9-2.7	1.9-5.5	0-1	0-2
St. Maarten (TNM)	15-24	26-45	1.7-4.7	3.1-7.4	0.4-2.6	1.1-5.1	0-1	0-1.3
St. Vincent (ET Joshua)	28-35	40-53	3-5.5	3.3-6.5	0.9-3.1	1.2-4.7	0-1.1	0.4-1.9
Suriname (Zanderij)	26-33	37-50	3-5.1	3.5-6.6	1.3-3.1	1.4-5.2	0-1	0-1.7
Tobago (ANR Robinson)	27-34	36-48	4.5-6.5	5-7.6	1.9-3.5	1.9-4	0-1.1	0-1.8
Trinidad (Piarco)	22-27	28-41	3.9-5.7	3.6-6.3	1.3-3.5	1.7-4.1	0-1	0-1.6

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



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