

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks June to August 2022

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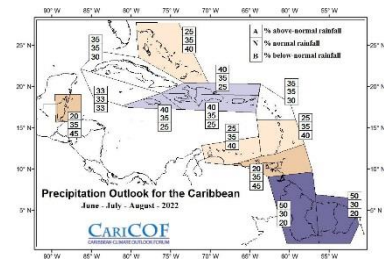
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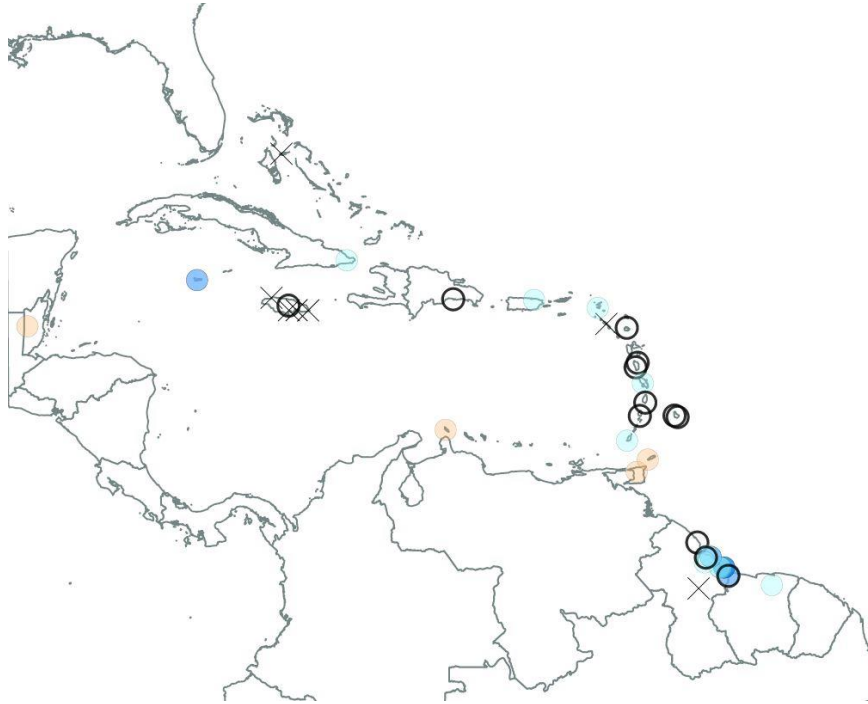
Wet day frequency shifts

Forecast for: June to August 2022

Precipitation outlook



JJA 2022 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 may be drier than usual in The Bahamas, Barbados, Belize, Trinidad & Tobago and the Windward Islands and at least as wet as usual across the Guianas, Hispaniola, Jamaica, Puerto Rico, and the USVI.

- An increase in the number of wet days may be expected across most of the region (low to medium confidence) except in Trinidad, Aruba, and Belize where fewer wet days than normal are expected (medium confidence).*

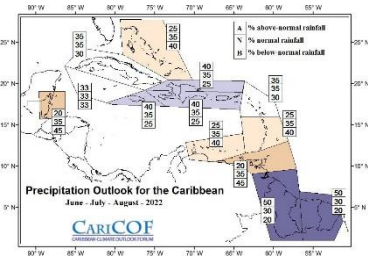
IMPLICATIONS:

- Ponding expected in Guyana due to an increase in seasonal rainfall and wet days.
- Increasing surface dryness across Trinidad, the ABC islands and Belize.

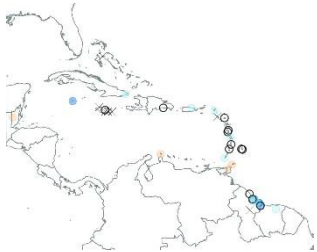
Wet spells frequency shifts

Forecast for: June to August 2022

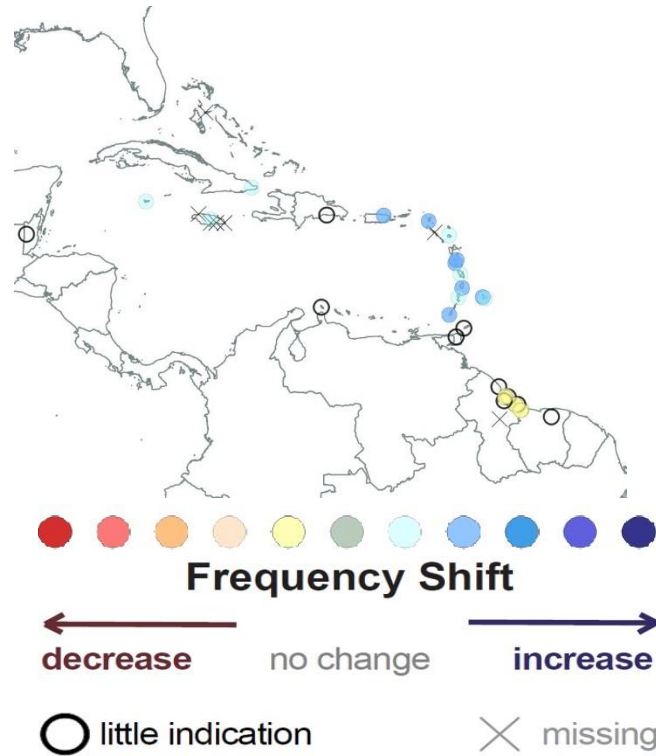
Precipitation outlook



Wet days outlook



JJA 2022 frequency of 7-day wet spells



JJA 2022 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 may be drier than usual in The Bahamas, Barbados, Belize, Trinidad & Tobago and the Windward Islands and at least as wet as usual across the Guianas, Hispaniola, Jamaica, Puerto Rico, and the USVI.

- A few more wet spells and very wet spells than usual are forecast across most of the region (low confidence).***

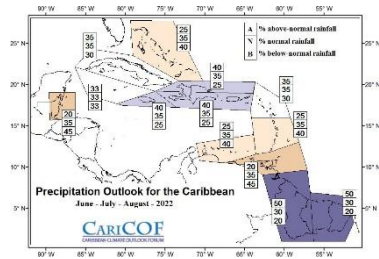
IMPLICATIONS:

- Moderate flash flood potential after June for most of the Lesser Antilles.**

Extreme wet spells frequency shifts

Forecast for: June to August 2022

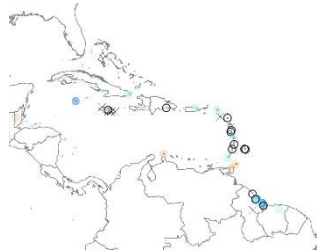
Precipitation outlook



JJA 2022 frequency of *extreme (top 1%) 3-day wet spells*



Wet days outlook



Wet spells outlook



Very wet spells outlook



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

FORECAST: JJA may be drier than usual in The Bahamas, Barbados, Belize, Trinidad & Tobago and the Windward Islands and at least as wet as usual across the Guianas, Hispaniola, Jamaica, Puerto Rico, and the USVI.

- *A few more extreme wet spells than usual are forecast across most of 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 August.

June to August 2022

	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)	26-41	23-43	1.8-4.7	1.4-3.9	0.9-3	0.3-1.7	0-1	0-0
Aruba (Beatrix)	6-16	12-47	0.4-3.4	2.4-7.9	0-2.1	1.5-5.4	0-0.5	0-1.1
Barbados (CIMH)	34-49	22-45	2.6-6.4	0.8-2.8	0.9-3	0.4-1.8	0-1	0-0.3
Barbados (GAIA)	37-47	23-42	3-5.4	0.8-3.5	0.9-2.6	0.7-1.9	0-1	0-0.5
Belize (C. Farm)	33-49	19-41	2.6-5.4	1.2-4.2	1.3-3.4	0.1-1.7	0-1.5	0-0.5
Cayman	28-40	10-22	3-5.8	0.2-2.3	0.9-3.5	0-1.1	0-1	0-0
Cuba (Punta Maisi)	7-15	11-24	0.9-3.4	1.7-4.7	0-1.3	0.2-1.8	0-0.5	0-0
Dom. Republic (Las Americas)	19-33	13-24	1.8-4.7	0.7-2.9	0.5-2.6	0-1.4	0-0.9	0-0.3
Dominica (Canefield)	49-66	35-57	4-6.7	0.4-3.9	1.7-4.6	0-1.7	0-1.3	0-0
Dominica (Douglas Charles)	53-68	48-68	2.2-5.6	0.8-3.5	0.9-2.8	0.1-1.4	0-0	0-0
Grenada (MBIA)	42-51	18-45	3.9-6.4	0.6-3.6	1.7-3.6	0.1-2.4	0-1	0-0.8
Guyana_73	25-35	17-35	3.2-5.6	1.2-4.3	1.3-3.2	1-4	0-1	0-1.9
Guyana (Albion)	37-52	28-57	3.4-6.7	1.6-7.2	1.7-3.6	1.5-5.9	0-1	0-2.8
Guyana (Blairmont)	44-60	30-64	3.5-6.9	1.3-6.8	1.5-3.9	1.4-5.7	0-1	0-2.9
Guyana (Charity)								
Guyana (Enmore)	41-57	32-54	3.2-6	1.7-4.7	1.1-3.4	1.2-4.8	0-1.3	0-1.3
Guyana (Georgetown)	51-63	35-64	3.2-5.6	1.1-7.6	1.3-3	1.4-7.4	0-1	0-3.4
Guyana (Greatfall)		34-61		1.3-5		0.9-4.1		0-0.2
Guyana (New Amsterdam)	46-60	31-59	3.9-6.2	1.3-5.8	1.4-3.4	1.5-5.9	0-1	0-2.5
Guyana (Skeldon)	45-52	30-52	3.3-6	1.3-4.2	1.1-3.9	0.9-2.9	0-2	0-1.6
Guyana (Timehri)	55-68	38-68	3.4-6	1.7-6.1	1.3-3.6	1.2-5.2	0-1	0-1.9
Guyana_Wales								
Jamaica (Worthy Park)	25-38	14-26	2.1-4.7	0.4-2.7	1.1-3	0-1.3	0-1	0-0
Martinique (FDF Desaix)	51-63	43-64	3-6	1-3.5	1.3-3	0.1-1.4	0-1	0-0
Puerto Rico (San Juan)	31-49	30-50	2.4-5.2	1.6-4.3	1.1-2.8	0.4-1.8	0-1	0-1
St. Lucia (Hewanorra)	41-57	30-47	2.8-5.6	1.1-3.1	0.9-2.6	0.3-1.6	0-1	0-0
St. Maarten (TNCM)	29-45	29-50	1.8-4.7	1.8-5.9	0.4-2.6	0.3-2.5	0-1	0-1.2
St. Vincent (ET Joshua)	55-67	40-63	3-5.5	0.8-3.3	0.9-3	0.7-2.4	0-1.1	0-0
Suriname (Zanderij)	52-63	41-58	3.2-5.1	1.7-3.8	1.3-3.2	0.9-2.6	0-1	0-1.2
Tobago (ANR Robinson)	53-64	24-45	4.5-6.6	0.7-4	2.2-3.4	0.2-1.8	0-1.5	0-0.7
Trinidad (Piarco)	44-50	27-45	3.9-6	0.3-2.9	1.3-3.4	1.3-3.3	0-1	0-1.3

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



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