

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks July to September 2022

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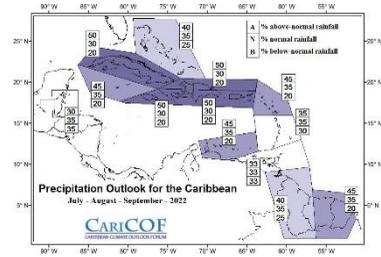
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Wet day frequency shifts

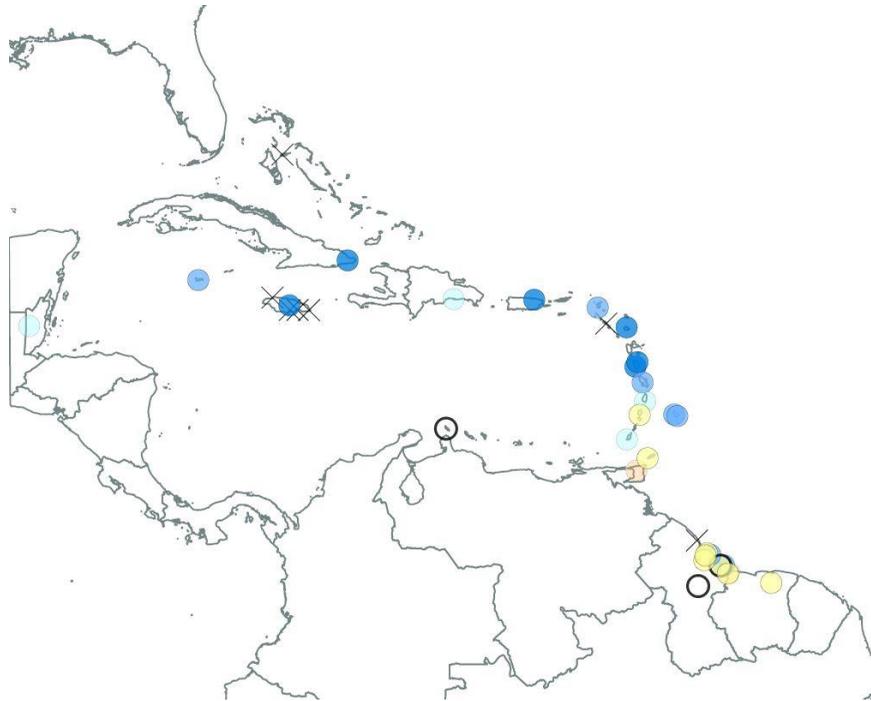
Forecast for: July to September 2022

Precipitation outlook



JAS 2022

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).

SEASONAL RAINFALL FORECAST:

- High probability for normal to above normal rainfall across most of the region.

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

- An increase in the number of wet days may be expected across most of the region (medium confidence) except from Tobago southward where fewer wet days than normal may be expected (low to medium confidence).

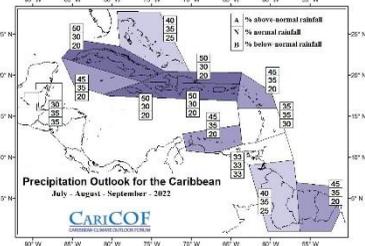
IMPLICATIONS:

- Ponding may occur in areas that are expected to see an increase in seasonal rainfall and wet days.

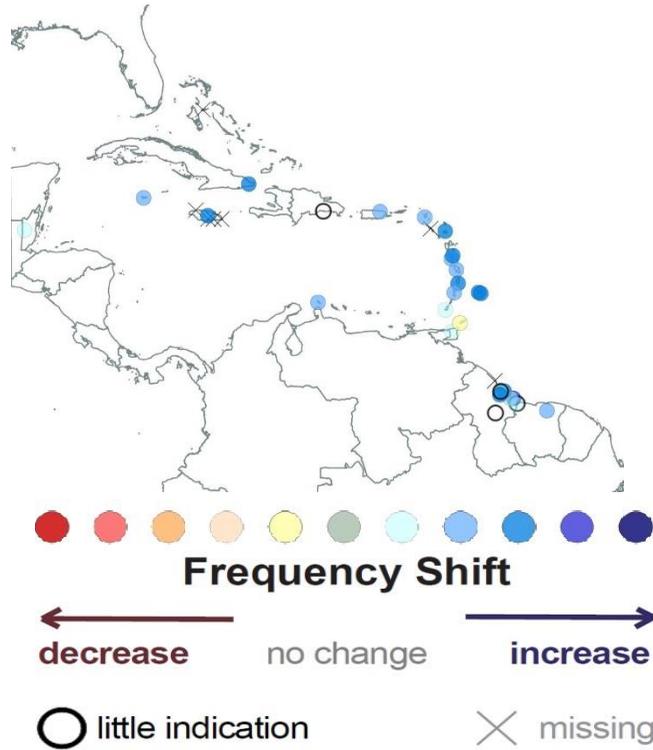
Wet spells frequency shifts

Forecast for: July to September 2022

Precipitation outlook



JAS 2022 frequency of 7-day wet spells



JAS 2022 frequency of 7-day very wet spells



Wet days outlook



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).

SEASONAL RAINFALL FORECAST:

- High probability for normal to above normal rainfall across most of the region.

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

- More wet spells than usual are forecast across most of the region (medium confidence).

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

- More very wet spells than usual are forecast across most of the region (medium confidence).

IMPLICATIONS:

- The chance of successive very wet spells translates to flood potential rising from moderate in July to high in September in Belize and most islands (except the ABC Islands), but decreasing from extremely high in July to moderate potential in September in the Guianas.

Extreme wet spells frequency shifts

Forecast for: July to September 2022

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

SEASONAL RAINFALL FORECAST:

- High probability for normal to above normal rainfall across most of the region.

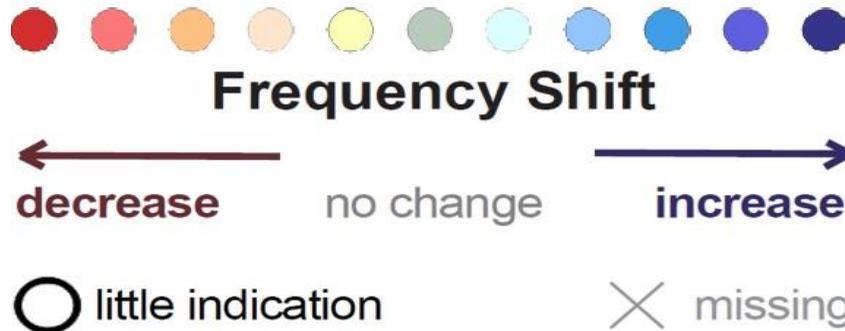
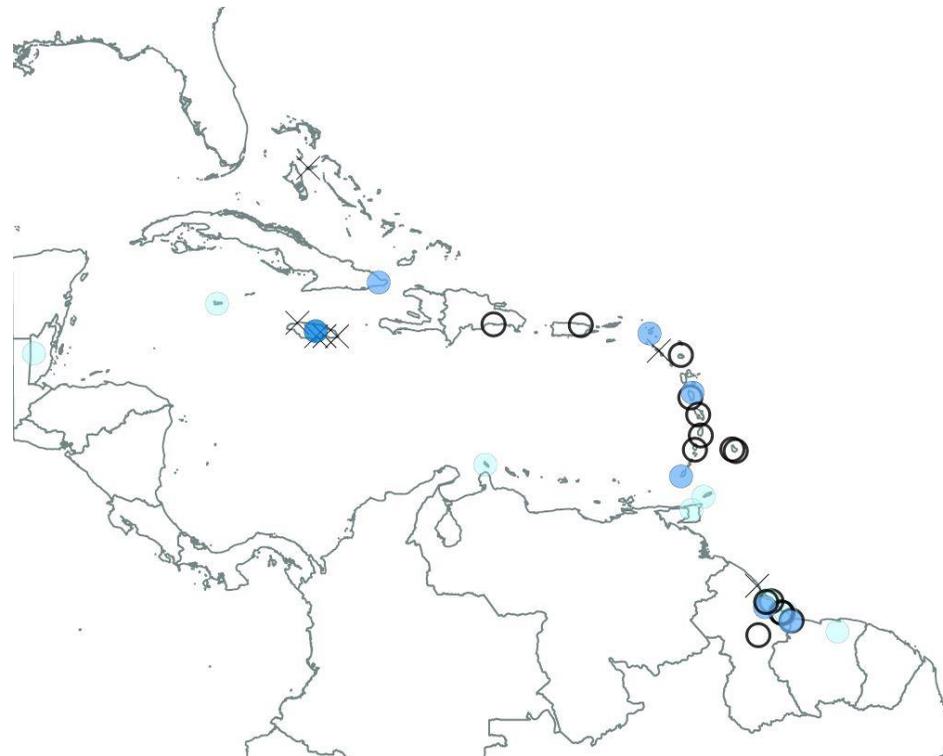
EXTREME WET SPELL FORECAST (top 1% of 3-day wet spells):

- An increase in the number of 3-day extremely wet spells may be expected across most of the region (low to medium confidence).

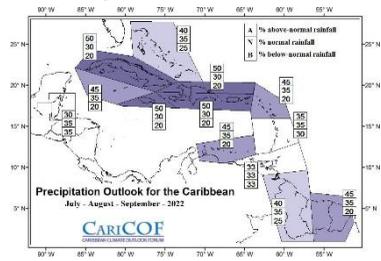
IMPLICATIONS:

- In view of the rapidly increasing chance of extreme wet spells towards September in Belize and the islands, the potential for flash floods and associated hazards there is expected to increase from moderate to high.

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



Precipitation outlook



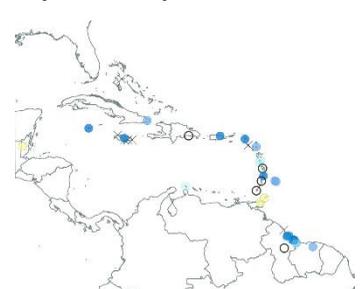
Wet days outlook



Wet spells outlook



Very wet spells outlook



July to September 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)	29-41	32-47	2.6-4.9	2.9-6.2	0.9-3	1.1-4.1	0-1	0-1.3
Aruba (Beatrix)	6-17	6-20	1.1-3.9	1-5.3	0.4-2.1	0.4-2.8	0-1	0-0.7
Barbados (CIMH)	37-48	37-52	3.4-6.4	3.9-7.7	1.4-3.2	1.7-4.2	0-1	0-1.2
Barbados (GAIA)	39-49	40-51	3.9-6.2	4.1-7.3	1.5-3.9	1.4-4.5	0-1	0-1.4
Belize (C. Farm)	37-49	35-52	2.7-5.6	3-6.7	1.3-3.4	1-3.7	0-1.1	0-1.5
Cayman	31-44	31-46	3.5-6.2	3.6-7.2	1.1-3.4	1.7-4.9	0-1	0-1
Cuba (Punta Maisi)	10-18	11-22	1.3-3.9	1.5-5.3	0.4-1.7	0.2-2.2	0-1	0-0.8
Dom. Republic (Las Americas)	24-34	27-38	3.3-5.1	3-6.4	1.7-3.1	1.3-4.2	0-1	0-1.6
Dominica (Canefield)	52-64	53-68	3.8-7.2	4.1-8.3	1.8-5.5	1.4-6	0-2.5	0-2
Dominica (Douglas Charles)	56-69	58-75	2.8-6.6	3.1-8	0.9-3.2	0.9-4.4	0-1	0-1.1
Grenada (MBIA)	40-48	38-52	3.9-6.4	3.5-6.8	1.7-3.6	1.2-4.2	0-2	0-2
Guyana_73	17-26	14-26	1.8-4.1	1.3-5	0.4-2.4	0.5-3.3	0-0.2	0-0.2
Guyana (Albion)	26-42	26-46	2.1-4.7	2.9-6.7	0.9-3	1.2-3.7	0-1	0-1.1
Guyana (Blairmont)	33-46	30-47	2.1-5.1	1.9-6.3	0.7-2.6	0.9-3.6	0-1	0-1
Guyana (Charity)								
Guyana (Enmore)	28-42	26-50	1.7-4.3	2.3-6.3	0.4-2.7	1-4	0-1	0-0.6
Guyana (Georgetown)	35-51	31-51	1.7-4.3	1.7-4.9	0.4-2.6	0.6-2.7	0-1	0-0.5
Guyana (Greatfall)	34-51	32-58	1.8-5.4	1.6-5.9	0.9-2.6	0.7-3.1	0-1	0-1.4
Guyana (New Amsterdam)	31-43	30-44	1.9-5.1	1.8-5.8	0.9-2.6	0.9-3.4	0-1	0-0.7
Guyana (Skeldon)	31-38	30-40	2.1-3.9	1.8-4.7	0.7-2.6	0.6-2.9	0-1	0-1.9
Guyana (Timehri)	46-58	42-58	2.2-4.7	2.4-6	0.9-2.6	0.8-3.2	0-1	0-1
Guyana_Wales	40-52	38-51	2.1-4.3	2-5	0.9-2.6	0.8-3.2	0-0.7	0-0.7
Jamaica (Worthy Park)	30-42	31-47	2.7-5.6	3-6.7	0.9-3	1.4-4.7	0-2	0-2.5
Martinique (FDF Desaix)	53-64	53-67	3.9-7.1	3.9-7.6	1.7-3.7	1.4-3.4	0-1.5	0-1.7
Puerto Rico (San Juan)	36-50	38-56	2.6-5.4	2.9-6.7	0.9-3.2	1.2-4	0-1	0-1.4
St. Lucia (Hewanorra)	45-59	44-61	3.4-5.6	3.8-7	1.7-3.4	1.7-4.1	0-1.1	0-1.6
St. Maarten (TNM)	33-49	33-53	2.2-5.8	2.5-6.5	0.9-3	1-3.9	0-1	0-1.3
St. Vincent (ET Joshua)	56-65	52-66	3.4-5.4	3.4-6.1	1.3-3.2	1.3-2.9	0-1.1	0-1.4
Suriname (Zanderij)	37-51	34-51	2-3.4	1.9-4.2	0.9-1.7	0.7-3	0-1	0-1.5
Trinidad (Piarco)	48-59	47-58	3.9-6.4	3.8-6.9	1.5-3.4	1.3-3.2	0-1	0-1.5
Tobago (ANR Robinson)	36-53	34-55	3.4-5.6	3-5.8	1.7-3.4	1.4-2.9	0-1	0-1.3

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



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