

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks April to June 2022

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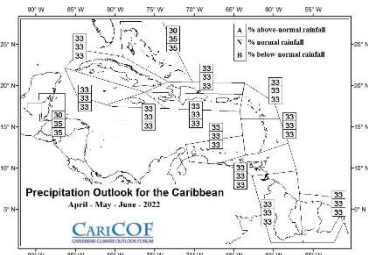
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Wet day frequency shifts

Forecast for: April to June 2022

Precipitation outlook



AMJ 2022 Frequency of wet days



USUALLY: Across the region during April-May-June, about 25 to 40 days out of a total of 91 days are wet days (coastal Guianas: 45 to 60 days; ABC Islands: 10 or less).

FORECAST: The total rainfall for AMJ is forecasted to be climatological odds (equal chances for above normal, normal, or below normal) with a similar forecast for wet days compared to the usual across the region.

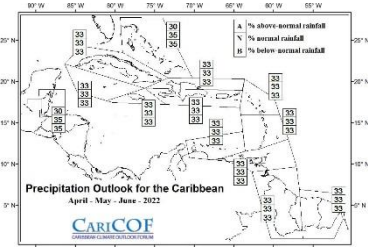
IMPLICATIONS:

- Frequency of outdoor activity disruptions due to rainfall should be low, but increasing towards May (Guianas) and June (elsewhere).
- Increasing surface dryness until May will make environmental conditions less conducive to moisture related pests, but engender the peak of the wild fire season.

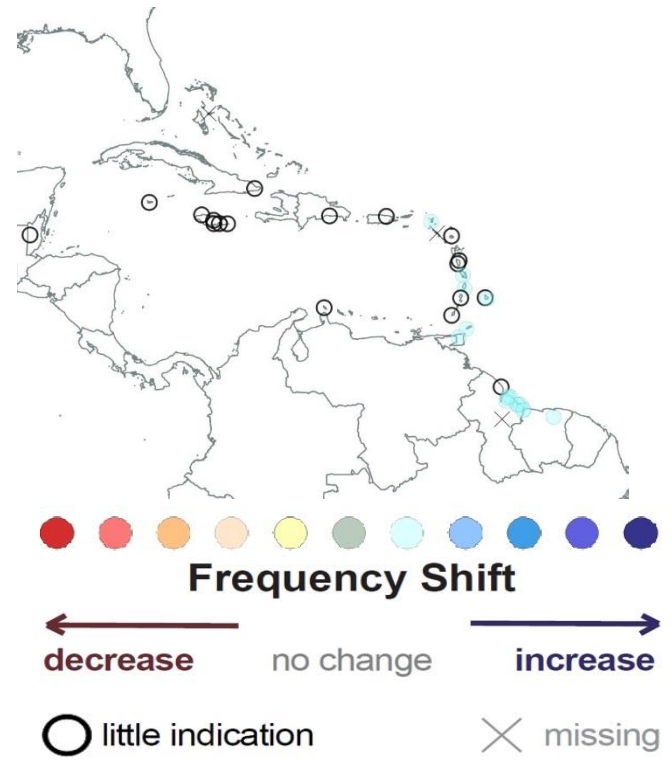
Wet spells frequency shifts

Forecast for: April to June 2022

Precipitation outlook



AMJ 2022 frequency of 7-day wet spells



AMJ 2022 frequency of 7-day very wet spells



USUALLY: 1 to 4 wet spells (ABC Islands up to 2; coastal Guianas: 3 to 6) occur from April to June, with 1 or 2 of them ending up very wet (ABC Islands: up to 1; coastal Guianas: 1 to 4).

FORECAST: The total rainfall for AMJ is forecasted to be climatological odds (equal chances for above normal, normal, or below normal) with a similar forecast for wet days compared to the usual across the region. **An increase in 7-day wet spells is expected east of Saint Martin with a projected increase in very wet spells forecast for the same area in addition to Aruba, Puerto Rico, and The Dominican Republic (*low confid.*).**

IMPLICATIONS:

- Potentially accelerated recharge of large water reservoirs and soil moisture from May onwards in the Guianas.
- Rising flood potential in May and June, especially in coastal Guianas in view of the increased frequency of very wet spells.

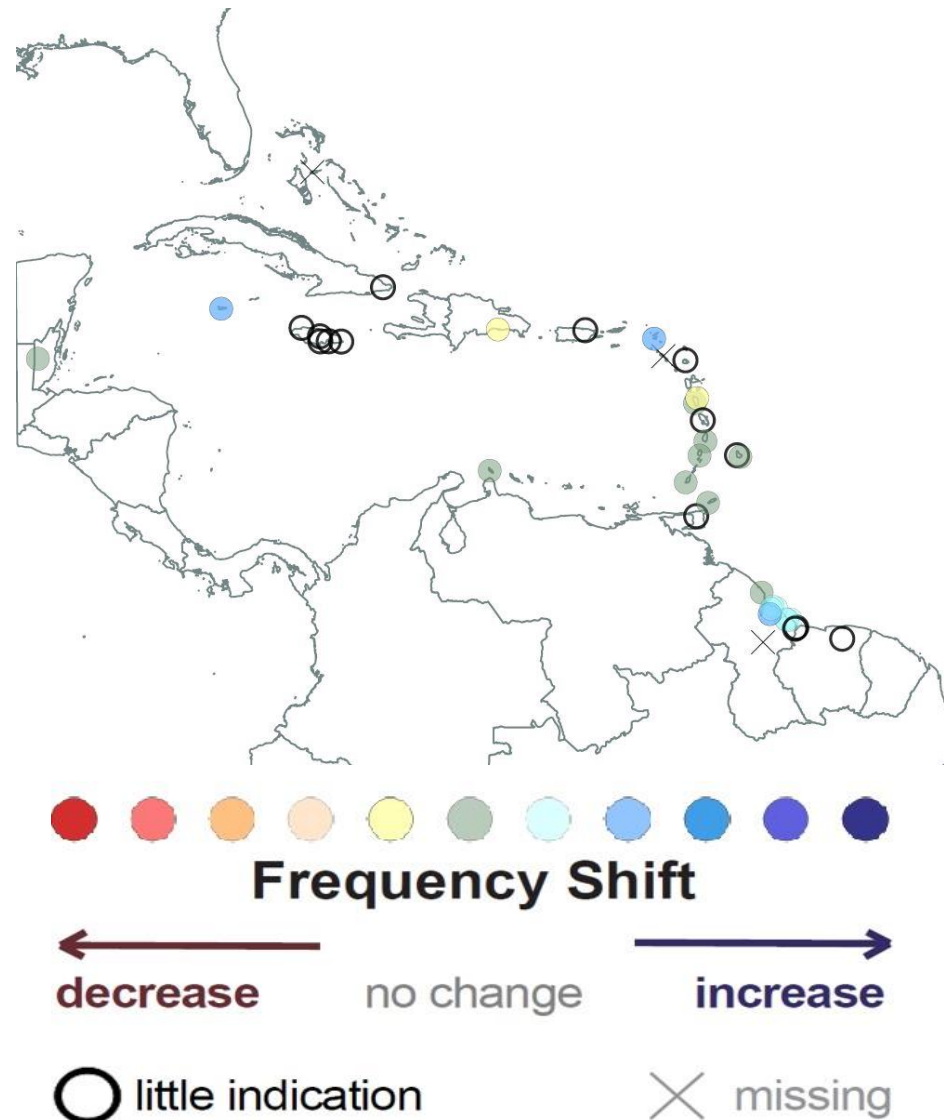
Extreme wet spells frequency shifts

Forecast for: April to June 2022

USUALLY: Up to 1 or 2 extreme wet spells occur between April to June (Guianas: up to 2 or 3).

FORECAST: The total rainfall for AMJ is forecasted to be climatological odds (equal chances for above normal, normal, or below normal) with a similar forecast for wet days compared to the usual across the region. An increase in 7-day wet spells is expected east of Saint Martin with a projected increase in very wet spells forecast for the same area in addition to Aruba, Puerto Rico, and The Dominican Republic (low confid.). The frequency of extreme wet spells is forecast to increase in Grand Cayman, and Saint Martin (*low to medium confid.*).

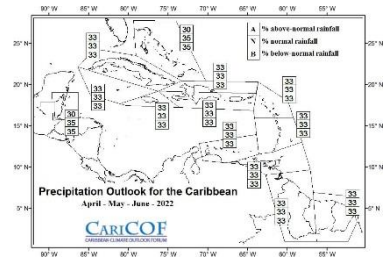
**AMJ 2022 frequency of
*extreme (top 1%) 3-day wet spells***



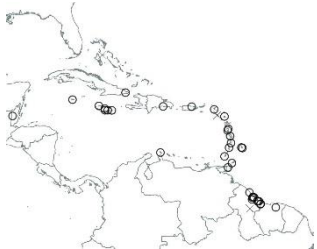
IMPLICATIONS:

- Flash flood potential throughout the region is a growing concern from May onwards in view of the possible occurrence of extreme wet spells, especially in the Guianas.

Precipitation outlook



Wet days outlook



Wet spells outlook



Very wet spells outlook



April to June 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)	18-32	23-43	1.5-4.3	1.4-3.9	0.4-2.6	0.3-1.7	0-1	0-0
Aruba (Beatrix)	4-9	12-47	0.4-1.7	2.4-7.9	0-1.3	1.5-5.4	0-1	0-1.1
Barbados (CIMH)	18-36	22-45	0.9-4.1	0.8-2.8	0.4-1.9	0.4-1.8	0-0.5	0-0.3
Barbados (GAIA)	19-37	23-42	0.9-4.1	0.8-3.5	0.4-2.6	0.7-1.9	0-1	0-0.5
Belize (C. Farm)	17-28	19-41	1.3-3	1.2-4.2	0.5-2.1	0.1-1.7	0-1	0-0.5
Cayman	18-29	10-22	2.1-3.9	0.2-2.3	0.9-2.6	0-1.1	0-1	0-0
Cuba (Punta Maisi)	8-18	11-24	1.3-3.4	1.7-4.7	0.4-2.1	0.2-1.8	0-1	0-0
Dom. Republic (Las Americas)	17-31	13-24	1.7-4.8	0.7-2.9	0.6-3.4	0-1.4	0-1	0-0.3
Dominica (Canefield)	29-45	35-57	1-3.5	0.4-3.9	0-2.5	0-1.7	0-0	0-0
Dominica (Douglas Charles)	41-64	48-68	1.1-5.1	0.8-3.5	0.4-2.9	0.1-1.4	0-2	0-0
Grenada (MBIA)	19-35	18-45	1.3-3.6	0.6-3.6	0.2-2.2	0.1-2.4	0-1	0-0.8
Guyana_73	27-41	17-35	2.8-6	1.2-4.3	1.5-3.4	1-4	0-1	0-1.9
Guyana (Albion)	38-52	28-57	2.6-5.8	1.6-7.2	1.3-3	1.5-5.9	0-2	0-2.8
Guyana (Blairmont)	44-58	30-64	2.8-6.2	1.3-6.8	1.3-3.4	1.4-5.7	0-1.1	0-2.9
Guyana (Charity)								
Guyana (Enmore)	42-54	32-54	2.7-5.6	1.7-4.7	1.3-3	1.2-4.8	0-1	0-1.3
Guyana (Georgetown)	46-59	35-64	3-6.4	1.1-7.6	1.3-3.6	1.4-7.4	0-1	0-3.4
Guyana (Greatfall)								
Guyana (New Amsterdam)	43-60	31-59	3-6.2	1.3-5.8	1.5-3.9	1.5-5.9	0-2	0-2.5
Guyana (Skeldon)	41-57	30-52	3.2-6.4	1.3-4.2	1.1-3.9	0.9-2.9	0-1	0-1.6
Guyana (Timehri)	49-61	38-68	3-6.4	1.7-6.1	1.1-3.6	1.2-5.2	0-2	0-1.9
Guyana_Wales								
Jamaica (Worthy Park)	20-37	14-26	2.4-4.9	0.4-2.7	0.9-3	0-1.3	0-2	0-0
Martinique (FDF Desaix)	35-51	43-64	1.3-3.6	1-3.5	0.4-2.1	0.1-1.4	0-1	0-0
Puerto Rico (San Juan)	25-42	30-50	1.8-4.9	1.6-4.3	0.9-3.9	0.4-1.8	0-1.5	0-1
St. Lucia (Hewanorra)	26-43	30-47	1.1-4.3	1.1-3.1	0.2-2.1	0.3-1.6	0-1	0-0
St. Maarten (TNCM)	22-33	29-50	1.3-3.4	1.8-5.9	0.4-2.1	0.3-2.5	0-1	0-1.2
St. Vincent (ET Joshua)	33-56	40-63	1.1-4.1	0.8-3.3	0.4-2.1	0.7-2.4	0-1	0-0
Suriname (Zanderij)	57-69	41-58	3.4-7.1	1.7-3.8	1.8-4.3	0.9-2.6	0-2	0-1.2
Tobago (ANR Robinson)	27-44	24-45	1.3-4.1	0.7-4	0.4-1.9	0.2-1.8	0-1	0-0.7
Trinidad (Piarco)	22-36	27-45	1.3-3.4	0.3-2.9	0.4-2.1	0.7-2.6	0-1	0-1.1

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



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