

Rainfall frequency and extreme forecasts

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Wet days and Wet spells Outlooks April to June 2021

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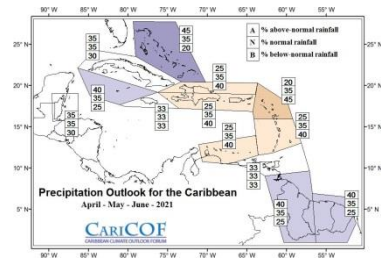
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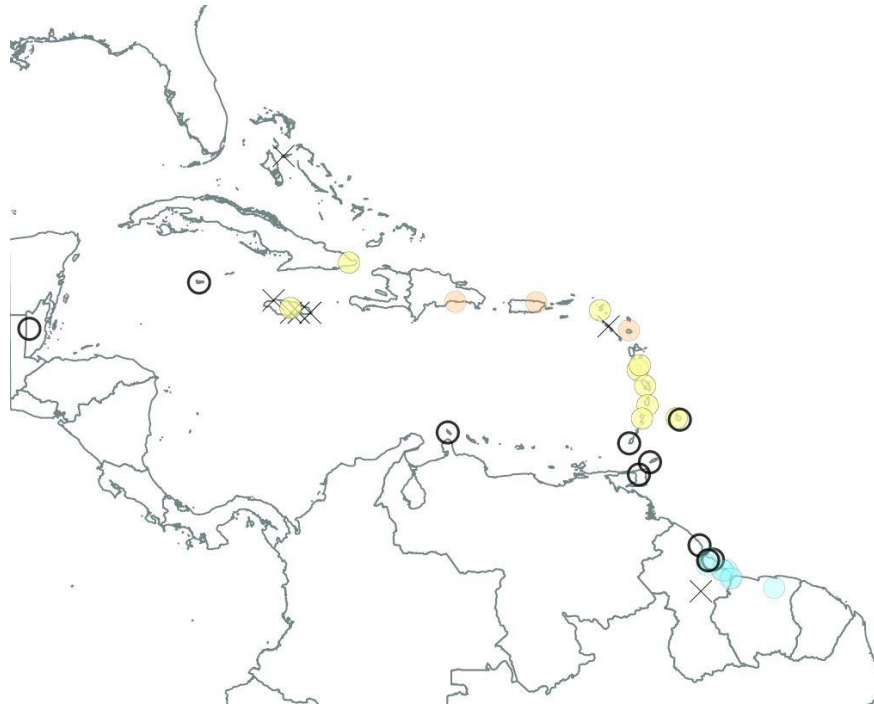
Wet day frequency shifts

Forecast for: April to June 2021

Precipitation outlook



AMJ 2021 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: AMJ may be drier than usual for the islands east of Hispaniola with the exception of Trinidad and Tobago with, possibly, a slight decrease in wet days compared to the usual across the same area (*low confidence*), but usual or wetter elsewhere with, possibly, a slight increase in the number of wet days from the usual in Guyana (*low confid.*).

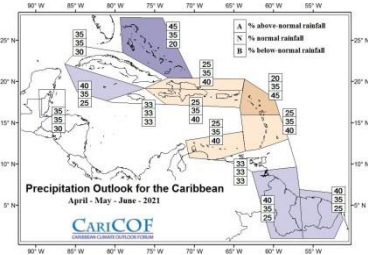
IMPLICATIONS:

- 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.

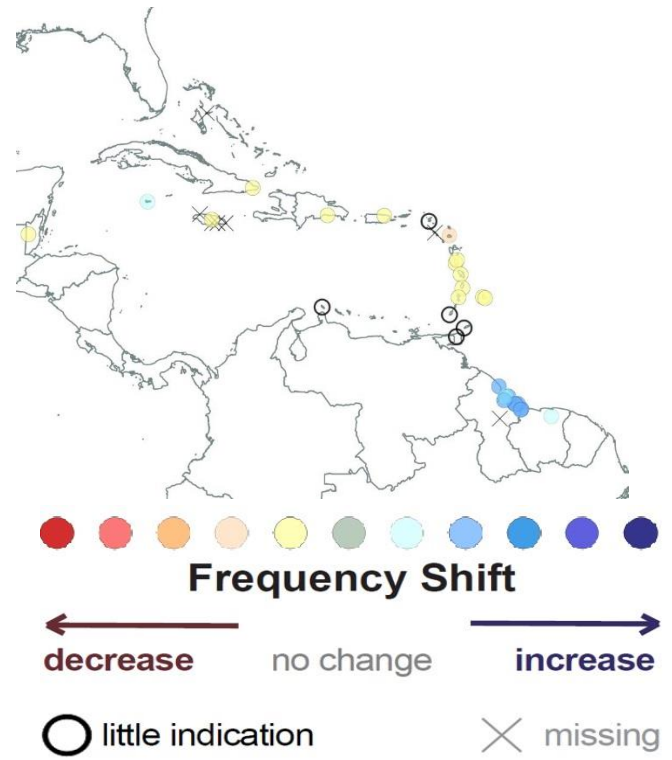
Wet spells frequency shifts

Forecast for: April to June 2021

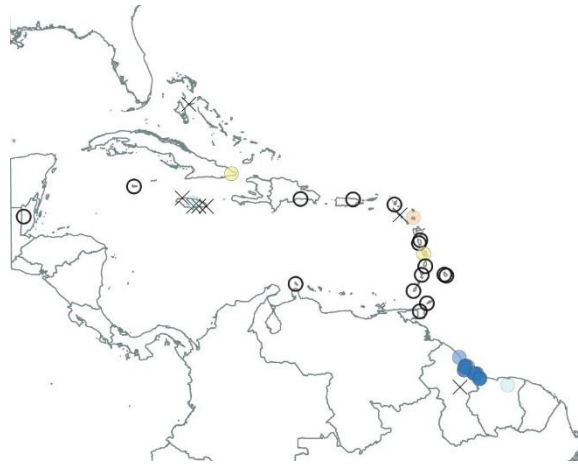
Precipitation outlook



AMJ 2021 frequency of 7-day wet spells



AMJ 2021 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: AMJ may be drier than usual for the islands east of Hispaniola with the exception of Trinidad with, possibly, a slight decrease in wet days and wet spells compared to the usual across the same area (low confidence), but usual or wetter elsewhere with an increase in the number of wet spells and very wet spells from the usual in Guyana (medium to high confid.) and, possibly, a slight increase in the number of wet days in Guyana (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 2021

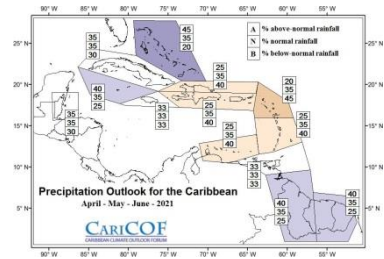
USUALLY: Up to 1 or 2 extreme wet spells occur between April to June (Guianas: up to 2 or 3).

FORECAST: AMJ may be drier than usual for the islands east of Hispaniola with the exception of Trinidad with, possibly, a slight decrease in wet days and wet spells compared to the usual across the same area (*low confidence*), but usual or wetter elsewhere with an increase in the number of wet spells and very wet spells from the usual in Guyana (*medium to high confid.*) and, possibly, a slightly higher number of wet days in Guyana (*low confid.*). A possible decrease in the chance of 1 or more extreme wet spells is forecasted from Hispaniola east- and southwards to Martinique (*medium confid.*), whereas chances of 2 extreme wet spells in the Guianas are higher than usual (*medium confid.*).

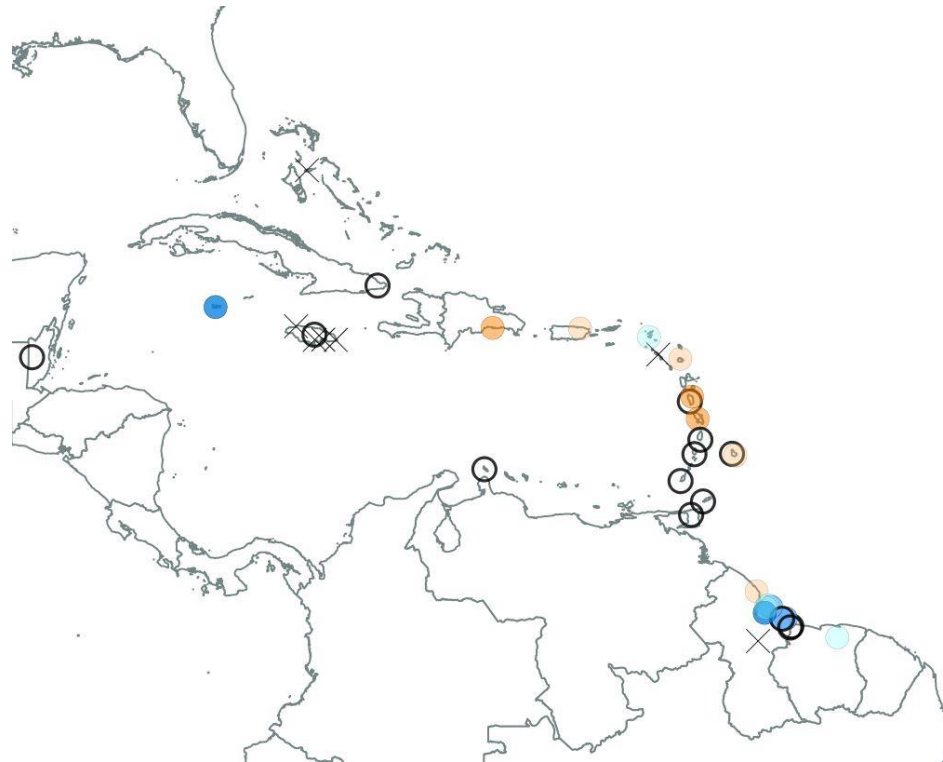
IMPLICATIONS:

- 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.

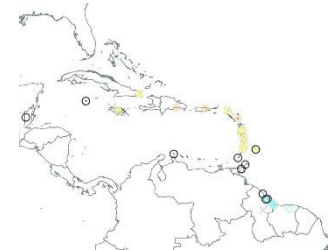
Precipitation outlook



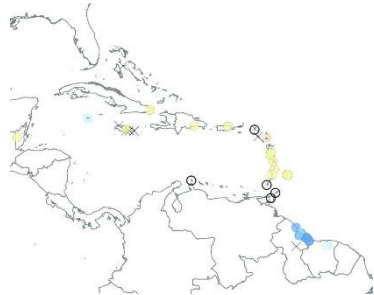
AMJ 2021 frequency of extreme (top 1%) 3-day wet spells



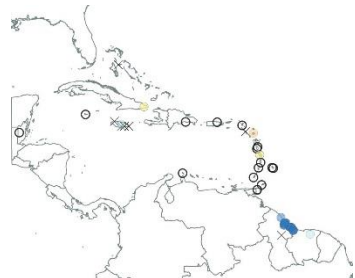
Wet days outlook



Wet spells outlook



Very wet spells outlook



April to June 2021

	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	15-31	1.2-3.9	1-3.8	0.4-2.4	0.5-2.2	0-1.3	0-0.7
Aruba (Beatrix)	4-9	3-10	0.4-1.7	0.1-1.8	0-1.2	0-1.1	0-0.8	0-0.1
Barbados (CIMH)	18-34	17-32	0.9-3.7	0.7-3.2	0.4-1.9	0.2-1.8	0-0.8	0-0.1
Barbados (GAIA)	19-36	19-34	0.9-3.9	0.8-3.6	0.3-2.5	0.3-1.9	0-1	0-0.7
Belize (C. Farm)	17-28	17-29	1.2-3	0.8-3.3	0.4-2.1	0.4-2.1	0-1	0-1.2
Cayman	18-28	17-30	2.1-3.7	1.7-4.1	0.9-2.4	0.8-2.9	0-1	0-1.7
Cuba (Punta Maisi)	7-18	6-19	1.3-3.6	0.9-4	0.4-2.1	0-2.1	0-1	0-1.3
Dom. Republic (Las Americas)	17-31	14-29	1.7-4.7	1.2-4.5	0.6-3.1	0.5-3	0-1	0-0.6
Dominica (Canefield)	27-44	23-44	0.8-3.4	0.8-3.9	0-2.5	0.1-2.2	0-0	0-0
Dominica (Douglas Charles)	41-63	36-60	0.9-4.6	1-4.2	0.4-2.7	0.1-2.6	0-1.5	0-0.7
Grenada (MBIA)	19-34	19-36	1.3-3.4	1-3.6	0.4-2.1	0.3-2.1	0-1	0-0.6
Guyana_73	26-40	27-41	2.8-6.3	3.2-7.7	1.3-3.4	1.6-5.2	0-1	0-2.7
Guyana (Albion)	37-52	39-55	2.8-5.6	3.1-7.1	1.3-3	1.9-3.8	0-2	0-2.7
Guyana (Blairmont)	44-58	44-62	3.2-6.2	3.7-7.2	1.3-3.4	2-5.5	0-1.4	0.2-2
Guyana (Charity)								
Guyana (Enmore)	42-54	42-56	2.8-5.7	3.1-7	1.3-3	1.4-3.7	0-1.1	0-2
Guyana (Georgetown)	45-60	46-60	3.1-6.4	3.2-6.3	1.5-3.6	1.6-4.3	0-1	0-1.6
Guyana (Greatfall)								
Guyana (New Amsterdam)	42-60	42-62	3-6.2	3.6-7	1.6-3.8	1.9-4.7	0-2	0-1.9
Guyana (Skeldon)	41-57	43-60	3.2-6.4	3.4-7.7	1.2-3.9	1.6-5.9	0-1	0-1.3
Guyana (Timehri)	49-61	49-65	3-6.4	3.2-6.9	1-3.6	1.7-4.6	0-2	0-3.1
Guyana_Wales	46-58	47-61	3.2-6.2	3.3-6.8	1.3-4.3	1.5-5.1	0-2	0-2.5
Jamaica (Worthy Park)	20-37	18-38	2.2-5.1	1.9-5.3	0.9-3	0.9-3.8	0-2	0-2
Martinique (FDF Desaix)	34-51	30-50	1.4-3.2	1.2-3.5	0.4-2.1	0.5-2	0-1	0-0.3
Puerto Rico (San Juan)	25-42	23-39	1.7-4.7	1.4-4.8	0.9-3.7	0.8-3.5	0-1.8	0-1.4
St. Lucia (Hewanorra)	26-41	21-40	1.2-4.2	0.8-3.4	0.3-2.1	0.2-2	0-1	0-0.5
St. Maarten (TNCM)	22-34	21-34	1.3-3.6	1.2-3.8	0.4-2.1	0.4-2.3	0-1	0-1.1
St. Vincent (ET Joshua)	33-58	31-54	1.3-3.9	0.8-3.5	0.4-2.1	0.4-1.8	0-1	0-0.9
Suriname (Zanderij)	57-69	57-70	3.4-6.9	3.6-7.6	1.7-4.3	1.8-4.9	0-1.8	0-2.6
Tobago (ANR Robinson)	27-44	26-44	1.4-4	1.4-4.5	0.4-1.9	0.6-2.1	0-1	0-1.2
Trinidad (Piarco)	22-36	22-37	1.3-3.4	1.2-4	0.4-2.1	0.4-2.3	0-1	0-0.9

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



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