Rainfall frequency and extreme forecasts
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Wet days and Wet spells Outlooks
October to December 2022

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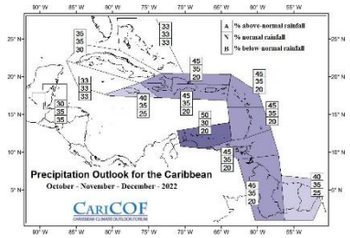
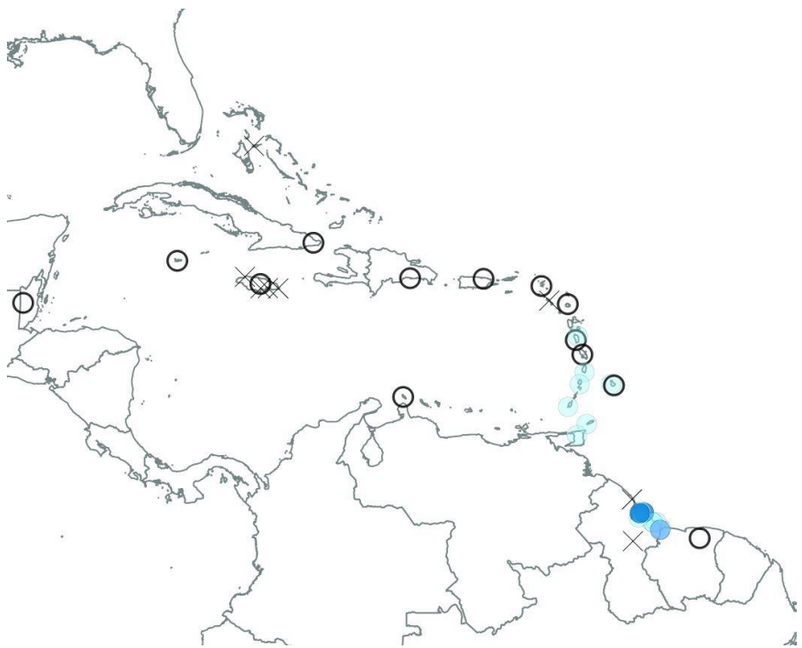
Wet day frequency shifts

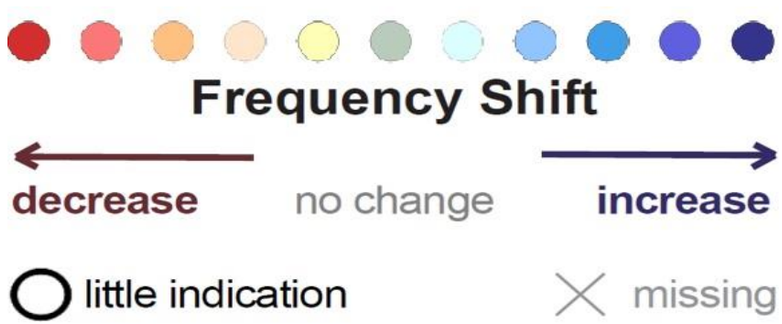
Forecast for: October to December 2022

Precipitation outlook



OND 2022
Frequency of wet days





USUALLY: Out of 92 days in Oct-Nov-Dec, there are about 35 to 50 wet days (coastal Guianas: 20-40; ABC Islands: 15-35).

SEASONAL RAINFALL FORECAST:

- At least the usual rainfall totals across most of the Antilles and the Guianas, but possibly drier than usual in Belize.

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

- An increase in the number of wet days may be expected across most of the Windward islands and Guyana (*low confidence*).

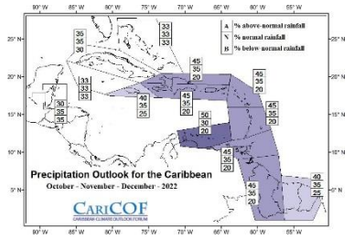
IMPLICATIONS:

- **Outdoor activity disruptions and environmental conditions conducive to moisture related pests due to rainfall should be frequent due to the annual peak in the number of wet days in the islands and in Belize at least through November, as well as in the Guianas from late-November onwards.**

Wet spells frequency shifts

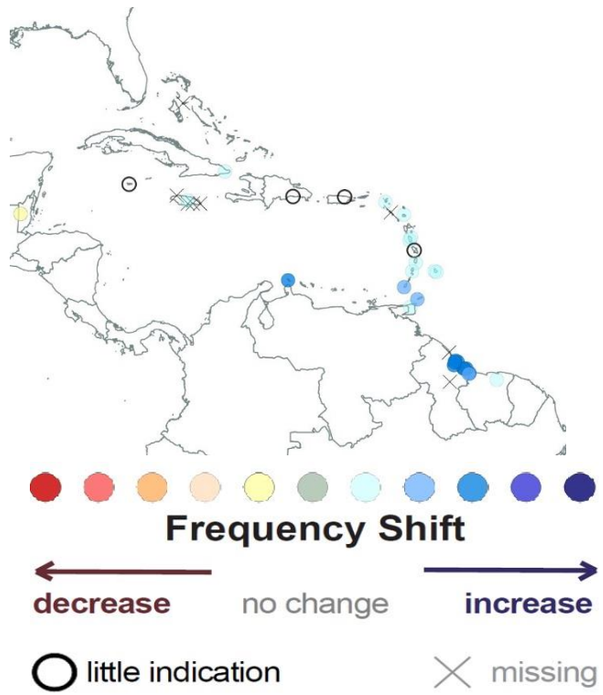
Forecast for: October to December 2022

Precipitation outlook



Wet days outlook

OND 2022 frequency of 7-day wet spells



OND 2022 frequency of 7-day very wet spells

USUALLY: Between 3 and 6 wet spells (coastal Guianas: 1-4) occur from October to December, with 1 to 4 of them ending up very wet (coastal Guianas: up to 2).

SEASONAL RAINFALL FORECAST:

- At least the usual rainfall totals across most of the Antilles and the Guianas, but possibly drier than usual in Belize.

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

- More wet spells than usual are forecast across most of the islands (*low confidence*) and in the coastal Guianas (*high confidence*) except for Belize where slightly fewer are expected (*low confid.*).

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 confid.*).

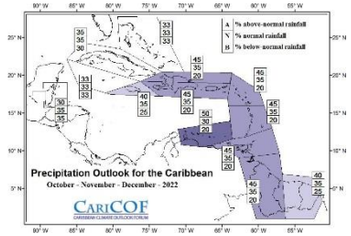
IMPLICATIONS:

- **Recharge rates of water reservoirs likely faster than usual in view of frequent wet spells.**
- **There is a higher potential for long term flooding and cascading hazards in the Caribbean islands and Belize and from late November onwards in the coastal Guianas.**

Extreme wet spells frequency shifts

Forecast for: October to December 2022

Precipitation outlook

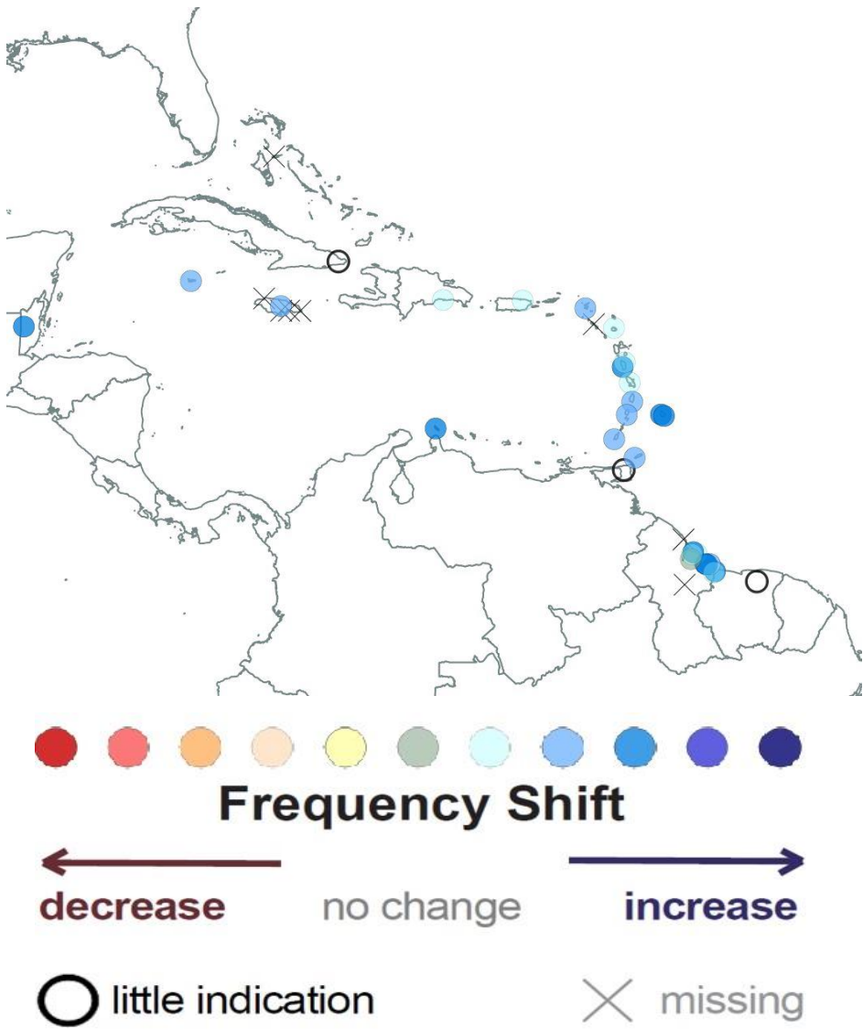


Wet days outlook

Wet spells outlook

Very wet spells outlook

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



USUALLY: Up to 2 extreme wet spells occur from October to December (Guianas: up to 1).

SEASONAL RAINFALL FORECAST:

- At least the usual rainfall totals across most of the Antilles and the Guianas, but possibly drier than usual in Belize.

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 (*medium confidence).*

IMPLICATIONS:

- **The very high chance of occurrence of extreme wet spells in the islands and Belize translates to a high to extremely high potential for flash floods and cascading hazards.**

October to December 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)	**32-44**	**31-46**	**3-5.6**	**2.8-6.5**	**1.3-3.2**	**1.4-4.7**	**0-1**	**0-1.7**
Aruba (Beatrix)	**19-44**	**20-43**	**3.4-8.6**	**4.2-10.3**	**1.3-6.9**	**2-9.2**	**0-2.5**	**0.3-3.1**
Barbados (CIMH)	**35-48**	**35-50**	**3.5-5.6**	**3.3-6.5**	**1.3-3.9**	**1.8-5.1**	**0-2**	**0-2.7**
Barbados (GAIA)	**35-49**	**35-50**	**3.4-5.6**	**3.3-6.2**	**1.5-3.4**	**1.9-4.6**	**0-2**	**0-2.8**
Belize (C. Farm)	**33-49**	**32-51**	**2.8-5.4**	**2.5-5.4**	**1.5-2.6**	**1.4-3**	**0-1**	**0-1.8**
Cayman	**22-39**	**22-42**	**2.2-4.7**	**2-5.9**	**0.9-3.8**	**0.9-4.1**	**0-2.6**	**0-2.8**
Cuba (Punta Maisi)	**18-32**	**17-34**	**2.6-5.8**	**2.7-7.4**	**1.3-4.3**	**1.3-5**	**0-2**	**0-1.8**
Dom. Republic (Las Americas)	**25-35**	**23-37**	**2.4-4.8**	**2-5.7**	**0.4-3**	**0.6-3.8**	**0-2**	**0-1.7**
Dominica (Canefield)	**41-54**	**40-55**	**2.7-4.7**	**2.3-5.3**	**1-2.6**	**1-3.8**	**0-1.1**	**0-2.2**
Dominica (Douglas Charles)	**57-69**	**57-72**	**3-5.8**	**3-6.9**	**1.7-3.7**	**1.7-4.4**	**0-1.2**	**0-1.7**
Grenada (MBIA)	**33-48**	**34-50**	**3.4-5.6**	**3.4-6.3**	**1.6-3.4**	**1.5-4.4**	**0-2**	**0-2.4**
Guyana_73	**13-25**	**14-27**	**1.3-3.5**	**1.5-4.3**	**0.1-2.4**	**0.5-3.8**	**0-1.4**	**0-2.3**
Guyana (Albion)	**18-40**	**18-47**	**0.8-4.5**	**1.4-7**	**0-2.3**	**0.4-3.4**	**0-1.5**	**0-2**
Guyana (Blairmont)	**20-41**	**21-44**	**1.1-3.9**	**1.6-4.7**	**0.4-2.1**	**0.6-3.3**	**0-1**	**0.1-2.3**
Guyana (Charity)								
Guyana (Enmore)	**18-49**	**24-56**	**0.9-4.3**	**1.6-5.5**	**0.4-2.9**	**0.8-3.5**	**0-1.9**	**0-1.8**
Guyana (Georgetown)	**28-46**	**31-51**	**1.3-4.5**	**1.8-5.9**	**0.4-2.8**	**1-4.4**	**0-2**	**0-2.7**
Guyana (Greatfall)								
Guyana (New Amsterdam)	**23-40**	**23-43**	**1.1-3.9**	**1.5-5.6**	**0.4-2.3**	**0.7-3.5**	**0-1**	**0-2.3**
Guyana (Skeldon)	**26-39**	**26-43**	**1.3-3.8**	**1.6-4.3**	**0.4-2.1**	**0.6-2.4**	**0-2**	**0-1.5**
Guyana (Timehri)	**40-51**	**39-54**	**1.7-4.1**	**2-4.9**	**0.4-2.3**	**0.6-3.1**	**0-1**	**0-0.9**
Guyana_Wales	**30-48**	**35-55**	**1.7-4.4**	**2.1-5.5**	**0.4-2.6**	**1-3.5**	**0-1**	**0-1.4**
Jamaica (Worthy Park)	**24-39**	**23-41**	**2.6-5.1**	**2.4-5.3**	**1.1-2.6**	**1.1-3.4**	**0-1**	**0-1.7**
Martinique (FDF Desaix)	**51-61**	**49-65**	**3.4-6.2**	**2.9-6.6**	**1.5-3.2**	**1.5-3.7**	**0-2**	**0-1.9**
Puerto Rico (San Juan)	**39-52**	**37-56**	**3-6**	**2.9-6.1**	**0.9-3.4**	**1.2-4.3**	**0-1**	**0-1.1**
St. Lucia (Hewanorra)	**42-54**	**40-56**	**3-5.4**	**3.1-5.7**	**1.3-3.4**	**1.2-3.9**	**0-1.1**	**0-1.7**
St. Maarten (TNCM)	**37-50**	**35-52**	**3.1-5.6**	**3-6.6**	**1.5-3.9**	**1.4-4**	**0-2**	**0-2.6**
St. Vincent (ET Joshua)	**52-64**	**52-67**	**3.4-6.4**	**3.3-7.1**	**1.8-3.7**	**1.6-4.1**	**0-2**	**0-3.2**
Suriname (Zanderij)	**28-44**	**29-47**	**1.3-2.6**	**1.3-2.7**	**0-1.7**	**0.2-3.2**	**0-1**	**0-0.7**
Tobago (ANR Robinson)	**41-53**	**42-55**	**3-5.6**	**2.8-6.4**	**1.3-3.4**	**1.4-3.2**	**0-1**	**0-1.7**
Trinidad (Piarco)	**39-50**	**40-51**	**3.5-6**	**3.6-6.5**	**1.5-3.7**	**1.7-4**	**0-2**	**0-2.2**

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

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