

Rainfall frequency and extreme forecasts

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wet days and wet spells outlooks

February to April 2017

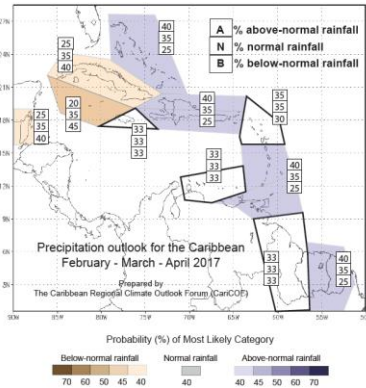
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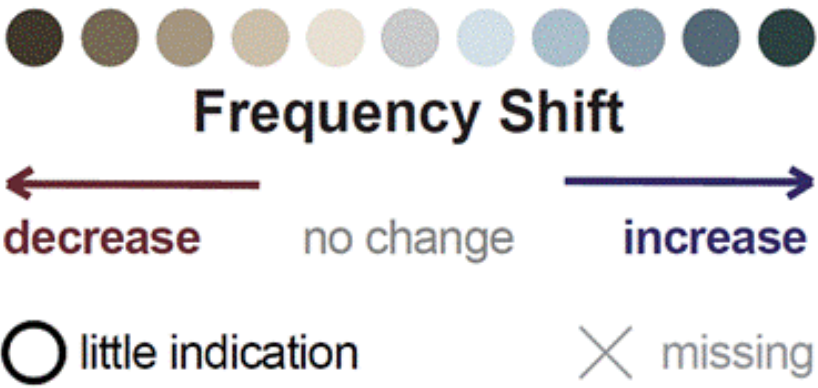




Wet day frequency shifts

Forecast for: February to April 2017

FMA 2017
Frequency of wet days



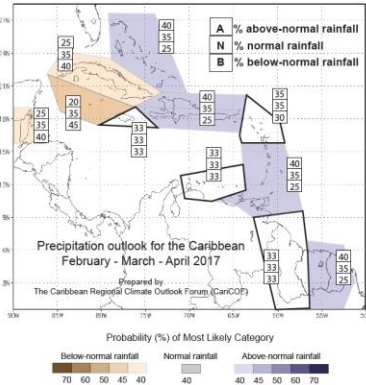
USUALLY: Across the region during November-December-January, about 20 to 35 days out of a total of 90 days are wet days.

FORECAST: FMA rainfall is likely to be above- to normal in much of the region but below- to normal in Belize, Cayman and Cuba. Fewer wet days are expected across the northern region while more wet days are expected in Guianas.

IMPLICATION:

- Few disruptions of outdoor activities, but slightly more than usual in Guianas.
- Increase in surface dryness across the region.

Precipitation outlook



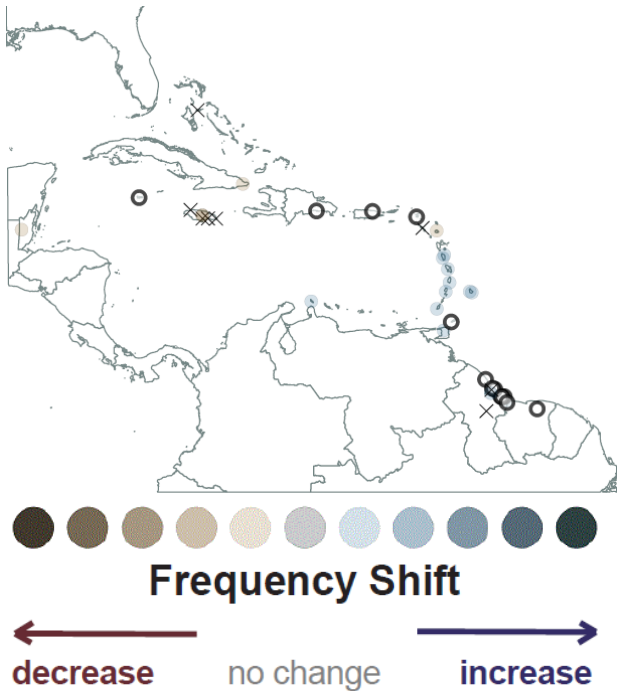
Wet days outlook



Wet spells frequency shifts

Forecast for: February to April 2017

FMA 2017 frequency of 7-day wet spells



FMA 2017 frequency of 7-day very wet spells



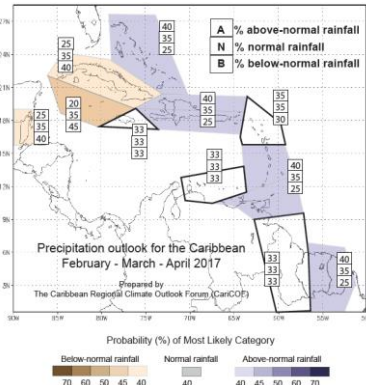
USUALLY: Up to 4 wet spells (ABC Islands up to 3; coastal Guianas: up to 4) occur from February to April, with up to 2 of them ending up very wet (ABC Islands: up to 1; coastal Guianas: up to 2).

FORECAST: FMA rainfall is likely to be above- to normal in much of the region but below- to normal in Belize, Cayman and Cuba. Fewer wet days are expected across the northern region while more wet days are expected in Guianas. **Small increase in no. of wet spells are expected along the south-eastern C'bean region.**

IMPLICATION:

- Little recharge of large water reservoirs.
- Depletion of large reservoirs during dry season likely slower than usual.

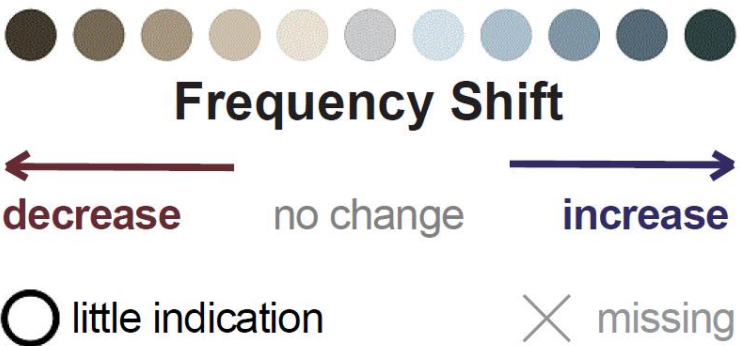
Precipitation outlook



Extreme wet spells frequency shifts

Forecast for: February to April 2017

FMA 2017 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 spells occur between February and April.

FORECAST: FMA rainfall is likely to be above- to normal in much of the region, but below- to normal in Belize, Cayman and Cuba. Fewer wet days are expected across the northern region, while more wet days are expected in Guianas. Fewer wet days are expected across the northern region while more wet days are expected in Guianas. Small increase in no. of wet spells are expected along the south-eastern C’bean region. We forecast no change in the normal amount of extreme wet spells.

IMPLICATION: Flash flood potential not a major concern until the end of April.

February to April 2017

| | 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) | 15-29 | 15-30 | 0.9-2.5 | 0.7-2.6 | 0.4-1.3 | 0-1.4 | 0-1 | 0-0.7 |
| Aruba (Beatrix) | 4-15 | 3-14 | 0.4-2.6 | 0.5-2.7 | 0-1.2 | 0-1.1 | 0-0 | 0-0 |
| Barbados (CIMH) | 15-31 | 16-32 | 0.4-1.6 | 0.4-1.7 | 0-0.9 | 0-0.9 | 0-0 | 0-0 |
| Barbados (GAIA) | 18-29 | 16-33 | 0.4-2.1 | 0.5-2.1 | 0-0.9 | 0-1 | 0-0 | 0-0 |
| Belize (C. Farm) | 9-20 | 6-18 | 0.4-1.6 | 0.2-1.6 | 0-0.9 | 0-0.8 | 0-0 | 0-0 |
| Cayman | 7-16 | 6-17 | 0-1.3 | 0-1.5 | 0-0.6 | 0-0.9 | 0-0 | 0-0 |
| Cuba (Punta Maisi) | 10-16 | 8-17 | 1.7-3 | 1.3-3.1 | 0.4-1.8 | 0.3-1.6 | 0-0.9 | 0-0.5 |
| Dom. Republic (Las Americas) | 12-21 | 10-21 | 0.9-2.5 | 0.8-2.9 | 0.4-1.7 | 0.3-1.5 | 0-0 | 0-0.1 |
| Dominica (Canefield) | 23-35 | 20-44 | 0-2.1 | 0.1-2.1 | 0-0.9 | 0-0.9 | 0-0 | 0-0 |
| Dominica (Douglas Charles) | 37-56 | 36-59 | 0.4-2.6 | 0.7-2.9 | 0-1.6 | 0-1.6 | 0-0.1 | 0-0.1 |
| Grenada (MBIA) | 11-24 | 12-25 | 0-1.2 | 0-1.8 | 0-0.6 | 0-0.9 | 0-0 | 0-0 |
| Guyana_73 | 14-26 | 16-31 | 1.1-4.2 | 1.3-4.2 | 0.4-2.4 | 0.4-2.4 | 0-1.1 | 0-0.2 |
| Guyana (Albion) | 23-36 | 22-41 | 0.8-3.4 | 0.9-3.4 | 0-1.7 | 0.2-2.1 | 0-1 | 0-0.9 |
| Guyana (Blairmont) | 23-44 | 23-47 | 0.9-3.4 | 0.9-3.7 | 0.3-1.7 | 0.2-2 | 0-1 | 0-0.3 |
| Guyana (Enmore) | 24-38 | 25-42 | 1.1-3 | 0.9-3.3 | 0.4-2.2 | 0.3-2.1 | 0-1.1 | 0-0.8 |
| Guyana (Georgetown) | 23-42 | 24-46 | 0.4-3.4 | 0.7-3.3 | 0-2.1 | 0.1-2.1 | 0-0.9 | 0-0.4 |
| Guyana (New Amsterdam) | 24-41 | 24-48 | 0.9-3.3 | 0.9-3.7 | 0.4-2.1 | 0.3-2.2 | 0-1 | 0-0.6 |
| Guyana (Skeldon) | 21-41 | 25-46 | 1.1-3.9 | 1.2-4.2 | 0.3-2.6 | 0.4-2.4 | 0-1 | 0-0.2 |
| Guyana (Timehri) | 24-45 | 26-52 | 0.4-3 | 0.7-3.7 | 0-1.7 | 0.2-1.9 | 0-1 | 0-0.8 |
| Jamaica (Worthy Park) | 14-26 | 12-24 | 0.9-3.1 | 0.6-3 | 0.1-2.1 | 0-1.7 | 0-0 | 0-0 |
| Martinique (FDF Desaix) | 30-47 | 26-53 | 0.3-1.7 | 0.5-2 | 0-0.9 | 0-1 | 0-0 | 0-0 |
| Puerto Rico (San Juan) | 21-35 | 20-37 | 0.9-2.6 | 0.8-2.9 | 0.4-1.7 | 0.1-1.7 | 0-1 | 0-1 |
| St. Lucia (Hewanorra) | 21-35 | 19-38 | 0-2.4 | 0.5-2.3 | 0-1.3 | 0-1.2 | 0-1 | 0-0.3 |
| St. Maarten (TNCM) | 22-38 | 20-38 | 0.9-3.1 | 0.8-3.5 | 0.4-1.3 | 0.1-1.4 | 0-0 | 0-0 |
| St. Vincent (ET Joshua) | 31-50 | 28-54 | 0-2.6 | 0.3-2.7 | 0-1.3 | 0-1.2 | 0-0 | 0-0 |
| Suriname (Zanderij) | 34-55 | 35-60 | 1-4.7 | 1.3-5.1 | 0.9-2.6 | 0.7-3 | 0-1 | 0-1 |
| Tobago (ANR Robinson) | 12-29 | 13-29 | 0-1.3 | 0-1.2 | 0-0.4 | 0-0.5 | 0-0 | 0-0 |
| Trinidad (Piarco) | 11-32 | 12-31 | 0-2.1 | 0.1-2.3 | 0-1.3 | 0-1.1 | 0-0 | 0-0 |

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