



## Highlights

Jun - usually frequent heavy showers.

Jul - wet season, often including mid-summer dry spell.

There is a 50% probability of above normal temperatures between June and August.

Night-time (min.) temperatures are forecast to be the usual or higher.

Daytime temperatures may be higher than usual.

# Cayman Islands Monthly Climate Bulletin

The Cayman national climate bulletin provides a broad overview of current climate conditions, as well as, an outlook of climate conditions up to 3 months in advance. The information is developed and disseminated by the Cayman Islands National Met Service and is intended to help Public manage climate risk and help build resilience to climate related hazards in Cayman Islands.

## What Happened

### Rainfall Review

12 MONTH ACCUMULATIVE RAINFALL AT OWEN ROBERTS INTL AIRPORT, GRAND CAYMAN

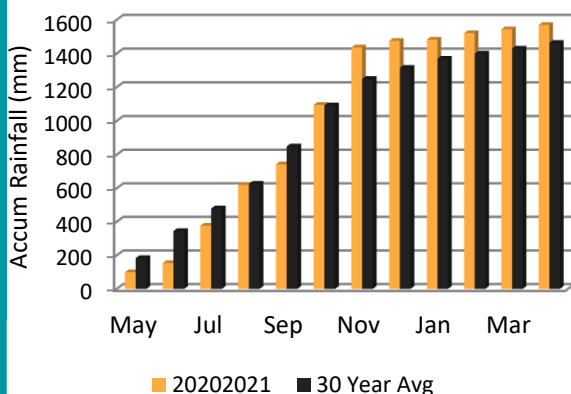


Figure 1. The graph displays the monthly accumulative rainfall over the past 12 months compared to the 30 year average. The rainfall totals for the past 12 months were 7% above the 30 year average.

MONTHLY RAINFALL TOTAL VS 30 YEAR AVERAGE AT OWEN ROBERTS INTL AIRPORT, GRAND CAYMAN

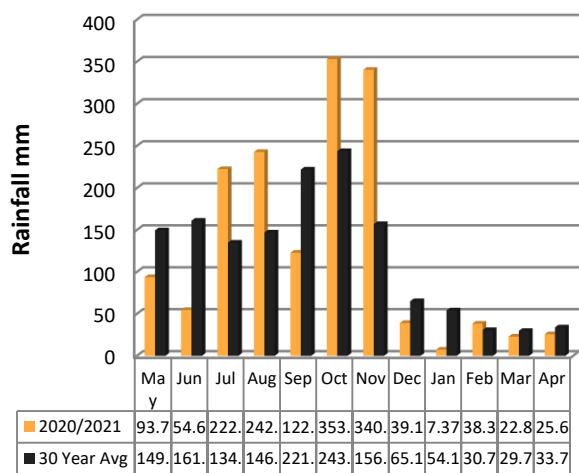
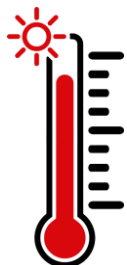


Figure 2. The graph displays the monthly rainfall totals over the past 12 months compared to the 30 year average.

### Temperature Review



Temp(°C)	Climatological Mean (1991-2020)	April 2021		
		Highest	Mean	Lowest
Monthly Max	30.1	31.7	30.2	28.3
Monthly Min	24.3	26.4	24.6	22.5
Monthly Mean	27.7	29.3	28.1	26.2

## Outlook or What Should We Expect? (June 2021 – August 2021)

### HOW WET?

**Precipitation:** The climatological rainfall range for Feb-Mar-Apr at Owen Roberts Airport is 60.7 to 97.8 mm. Feb-Mar-Apr total rainfall was 86.96 mm which was within the climatological range. The climatological rainfall range for Jun-Jul-Aug is 376.2 to 508.5 mm. The Jun-Jul-Aug outlook calls for 33% probability of above normal rainfall.

**Frequency of wet days:** Historically, in Jun-Jul-Aug, there are about 28 to 42 wet days. The forecast indicates 27-45 wet days for the next 3 months.

**Frequency of 7-day wet spells:** Between 3 and 8 wet spells expected for Jun-Jul-Aug.

**Frequency of extreme (top 1%) 3-day wet spells:** The forecast indicates 0 - 1.3 number of extreme wet spells.

### HOW HOT?

**Temperature:** Feb-Mar-Apr average temperature was 27.4 °C, which was about 0.5 °C more than the climatological mean.

The usual temperature range for Jun-Jul-Aug at Owen Roberts Airport is 29.2 °C to 29.5 °C. The outlook calls for 50% probability of above normal temperatures.

The usual or higher night-and daytime temperatures are forecast over the period of June to August.

Usually: 15-25 heatwave days over 3 months.

80-90% chance for at least 5 heatwave days.

### HOW DRY?

**Drought:** Short term (end of July) there is no concern. Long term (end of May) there is no concern.

**Frequency of 7-day dry spells:** Historically, in Jun-Jul-Aug, there are about 2 to 4 dry spells. The forecast indicates about 1 to 4 for the next 3 months. There is a 50% probability of at least three 7-day dry spells.

**Frequency of 10-day dry spells:** Historically, 0-2 dry spells occur from Jun-Jul-Aug. The forecast indicates 0-2 dry spells.

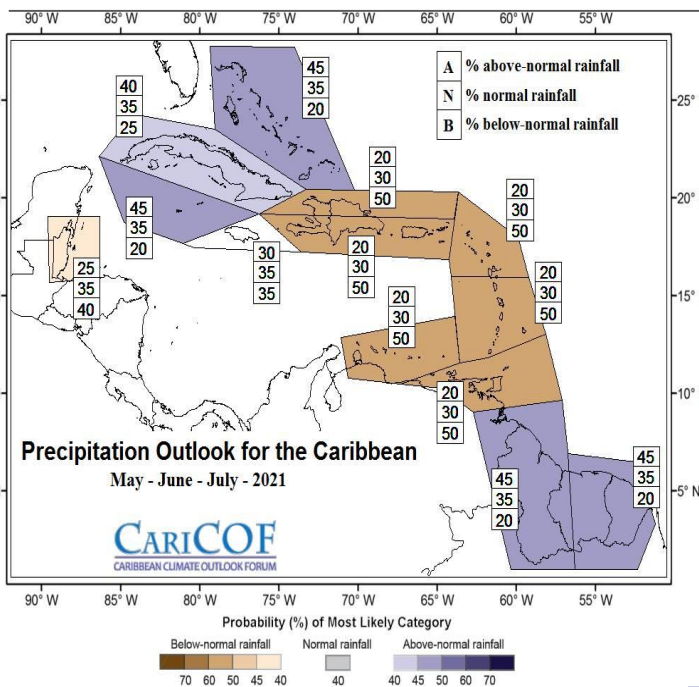


Figure 4: CariCOF Precipitation Outlook

### Niño Southern Oscillation (ENSO)

**Recent observations:** Sea Surface Temperatures (SSTs) in the eastern Pacific SSTs have recently anomalously warmed to within 0.5°C below average; cold-neutral ENSO conditions are in place.

**Model forecast and guidance:** The models favour ENSO neutral conditions into JJA (with about 70% confid.). Large uncertainties exist for SON with 40-50% and 25-50% chance of neutral and La Niña conditions, resp.

**Expected impacts on rainfall and temperatures:** ENSO neutral conditions tend to increase the level of uncertainty in the seasonal forecasts. If La Niña were to re-emerge in SON, it would tilt the odds to wetter and more stormy conditions. Heat during the Caribbean Heat Season post a La Niña event tends to be attenuated.

**Above-normal (A)** - within the wettest/hottest third of the historical record  
**Near-normal (N)** - within the middle third of the historical record  
**Below-normal (B)** - within the driest/coldest third of the historical record

Find out more about climate conditions in the Caribbean region by reading the CariCOF Outlook Newsletter:

<http://www.weather.gov.ky/portal/page/portal/nwshome/climate/Climate%20Outlook%20Newsletter>

**Disclaimer:** The Cayman National Climate Bulletin is meant to provide a general summary of current climate conditions and an outlook of future seasonal climate conditions for Cayman as well as some implications for the agriculture, health and tourism sectors. The information contained herein is provided with the understanding that the Cayman Islands National Met Services makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability or suitability of said information and takes no responsibility for improper use or interpretation of the Bulletin.