



# Cayman Islands Monthly Climate Bulletin

The Cayman Islands Monthly 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.

## Highlights

June is the start of the Wet Season (May – October).

The Jun–Jul–Aug outlook calls for equal probability of above/normal/below average rainfall.

June– Aug daytime temperatures may be warmer than usual .

June– Aug nighttime temperatures may be cooler than usual .

## What Happened (Feb 2022 – Apr 2022)

### Rainfall Review

The Feb-Mar-Apr climatological rainfall range at Owen Roberts Airport is 60 to 98 mm. The Feb-Mar-Apr total rainfall recorded was 140 mm, 42 mm greater than the climatological range.

12 Month Accumulative Rainfall at Owen Roberts Intl Airport, Grand Cayman

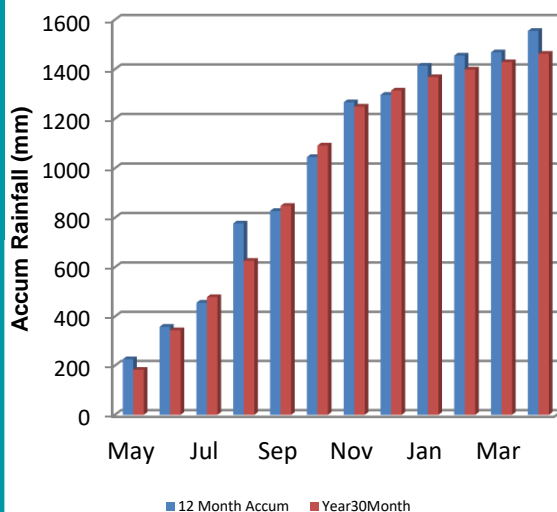


Figure 1. The graph displays the monthly accumulative rainfall over the past 12 months compared to the 30 year average. The rainfall totals for the past 12 months were 5.9% above the 30 year average.

Monthly Rainfall Total vs 30 Year Average at Owen Roberts Intl Airport, Grand Cayman

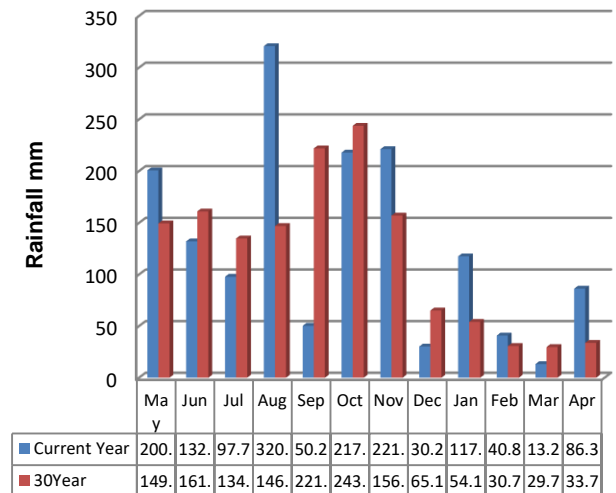
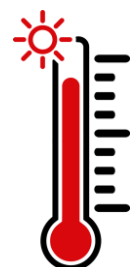


Figure 2. The graph displays the monthly rainfall totals over the past 12 months compared to the 30 year average. August's rainfall total of 320.8 mm is the highest on record. September's rainfall total of 50.29 mm is the lowest on record.

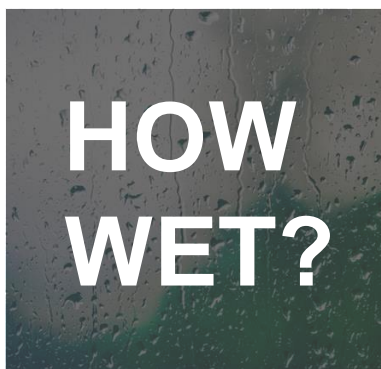
### Temperature Review

The Feb-Mar-Apr average temperature recorded at Owen Roberts Airport was 27.3 °C, about 0.4 °C greater than the climatological norm.

Temperature (°C)	Climatological Mean (1991-2020)	April 2022		
		Highest	Mean	Lowest
Monthly Max	30.1	31.8	30.4	28.5
Monthly Min	24.3	26.3	24.6	21.3
Monthly Mean	27.7	28.9	27.7	25.6



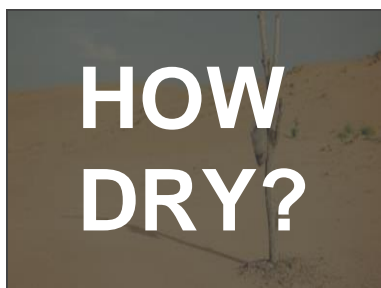
# Outlook or What Should We Expect? (June 2022 – August 2022)



Climatological Rainfall Range				Forecast	
376.2 – 508.5 mm				Equal probability of <u>above/normal/below</u> average	
Frequency of Wet Days		Frequency of 7-Day Wet Spells		Frequency of Extreme (top 1%) 3-Day Wet Spells	
<i>Climatological</i>	<i>Forecast</i>	<i>Climatological</i>	<i>Forecast</i>	<i>Climatological</i>	<i>Forecast</i>
28 – 40	10 – 22	3 – 5.8	0.2 – 2.3	0 – 1	0



Climatological <u>Minimum</u> Temperature Range	Forecast	Climatological <u>Average</u> Temperature Range	Forecast	Climatological <u>Maximum</u> Temperature Range	Forecast
25.8°C – 26.1°C	45% probability <u>below</u> minimum	29.2°C – 29.5°C	Equal probability of <u>normal/below</u> average	31.9°C – 32.2°C	45% probability <u>above</u> maximum



**Drought:** Short term and long term show no drought concern.

Frequency of 7-Day Dry Spells		Frequency of 10-Day Dry Spells	
<i>Climatological</i>	<i>Forecast</i>	<i>Climatological</i>	<i>Forecast</i>
2 - 4	1 - 4 60% probability	0 - 2	0 - 2

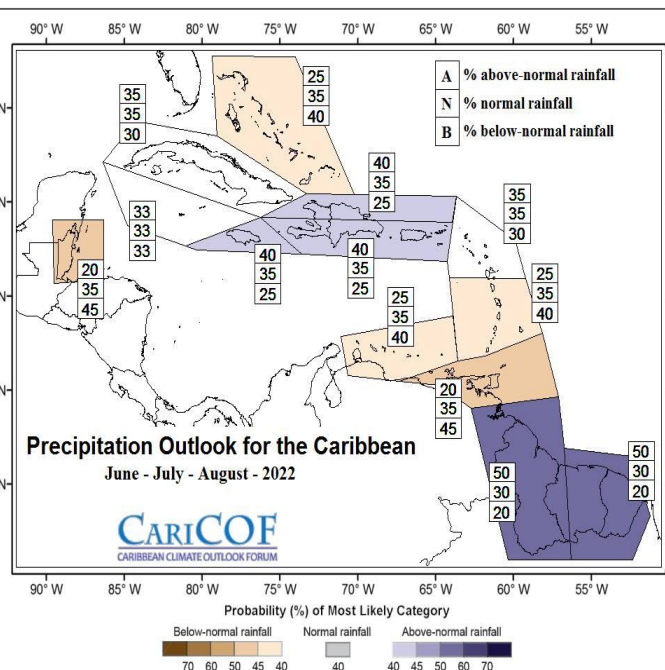


Figure 3: CariCOF Precipitation Outlook

## El Niño Southern Oscillation (ENSO)

**Recent observations:** Sea Surface Temperatures (SSTs) in the eastern Pacific remain below normal -1.0°C; La Niña conditions have maintained into the middle of 2022.

**Model forecast and guidance:** The models forecast indicate La Niña conditions in JJA (70-55% confidence), which may maintain into SON (60-55% confidence).

**Expected impacts on rainfall and temperatures:** La Niña tilts the odds to more rainfall activity in JJA and SON, except in the northern Caribbean where it tilts the odds to less rainfall. La Niña also tilts the odds for higher tropical storm frequency in the Atlantic Basin.

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 Islands 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 Weather Service 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.