



# 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. Weather observations are taken at the Owen Roberts International Airport.

## Highlights

**Wet Season:**  
May – Nov

**Hurricane Season:**  
Jun – Nov

**Jul – Sept**  
Peak of the Caribbean Heat Season

A transition from El Niño to Neutral or La Niña conditions is expected for Jul-Aug-Sept and likely La Niña conditions by Oct-Nov-Dec.

A transition to La Niña conditions is usually marked by an increased chance of heavy showers, higher rainfalls totals, higher temperatures and enhanced tropical cyclone activity during the Hurricane Season.

## What Happened (Apr 2024 – Jun 2024)

### Rainfall Review

The Apr-May-Jun climatological rainfall range at the Owen Roberts International Airport is 293.9 to 379.2 mm. The Apr-May-Jun total rainfall recorded was 622.3 mm. June's rainfall total of 533.4 mm, was **above** its climatological value of 161.0 mm.

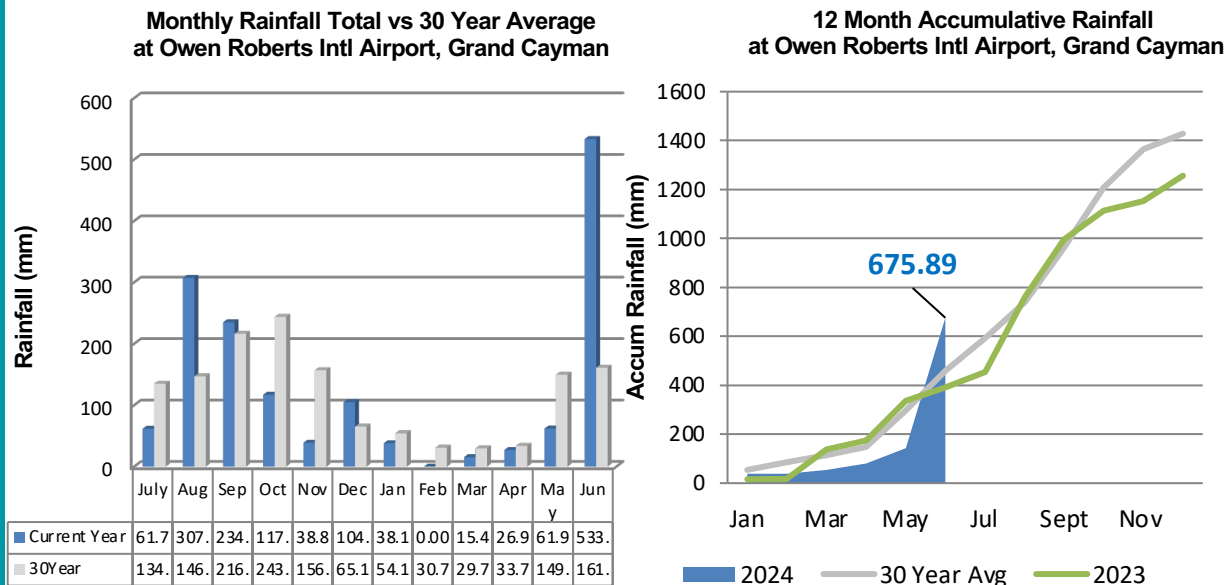


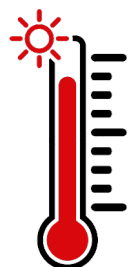
Figure 1. The graph displays the monthly rainfall totals over the past 12 months compared to the 30-year average. June 2024's rainfall total of 533.4mm is currently the highest for the 12-month period. Currently, the lowest for 2024 is February with 0.0mm.

Figure 2. The graph displays the accumulated monthly rainfall totals over the current year compared to the 30-year average and the previous year. Currently, 2024 accumulated rainfall is 675.9mm/26.6in as of June.

### Temperature Review

The Apr-May-Jun average temperature recorded at Owen Roberts International Airport was 29.3°C. June's average temperature was 29.2°C, which was 0.1°C **below** the month's climatological average.

Temperature (°C)	Climatological Average (1991-2020)	June 2024		
		Highest	Avg	Lowest
Monthly Avg Max	31.7	33.8	31.7	28.3
Monthly Avg Min	25.8	29.0	25.9	23.1
Monthly Avg	29.3	31.3	29.2	26.6



# Outlook or What Should We Expect? (Jul 2024 – Sept 2024)



Climatological Average Rainfall Range				Forecast	
408.9 – 585.2 mm				50-60% <b>above</b> average	
Frequency of Wet Days		Frequency of 7-Day Wet Spells		Frequency of Extreme (top 1%) 3-Day Wet Spells	
Climatological	Forecast	Climatological	Forecast	Climatological	Forecast
31 - 46	31 - 51	3.4 - 6.4	3.8 - 8.6	0 - 1	0 - 1.4



Climatological <u>Minimum</u> Temperature Range	Forecast	Climatological <u>Average</u> Temperature Range	Forecast	Climatological <u>Maximum</u> Temperature Range	Forecast
25.7°C – 26.1°C	80% Probability <b>above</b> average	29.6°C – 29.8°C	70% Probability <b>above</b> average	31.9°C – 32.3°C	70% Probability <b>above</b> average
<b>HEAT IMPACT: 40% CHANCE OF EXPERIENCING HEAT WAVES DURING THE PERIOD</b>					



No of 7-Day Dry Spells(Three 7 DDS )		No of 10-Day Dry Spells	
Climatological	Forecast	Climatological	Forecast
2-3	0	0-1	0

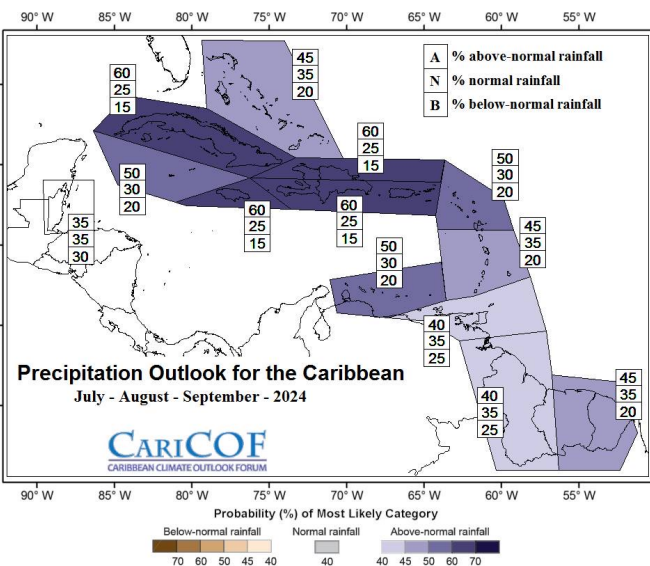


Figure 3: CariCOF Precipitation Outlook

## El Niño Southern Oscillation (ENSO)

**Recent observations:** A strong El Niño event which peaked in December in the eastern equatorial Pacific has ended, with Sea Surface Temperatures (SSTs) having anomalously cooled to average by mid-May.

**Model forecast and guidance:** The forecast models indicate further cooling to either ENSO neutral (~35-65% confidence) or La Niña conditions in JAS (~35-65% confidence) and likely La Niña conditions by OND (~55-85% confidence).

**Expected impacts on rainfall and temperatures:** A transition into La Niña is often associated with increased chances of heavy showers, higher rainfall totals and air temperatures in JAS, as well as increased Atlantic Hurricane Season activity from September onwards.

- 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 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.