



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

Nov-Dec-Jan: transition to dry season, decreasing shower frequency and intensity

In the current El Niño phase, it marks a warmer end to the heat season and reduced activity toward the end of the hurricane season. Rainfall tends to be lower than usual.

What Happened (Aug 2023 – Oct 2023)

Rainfall Review

The Aug-Sept-Oct climatological rainfall range at the Owen Roberts International Airport is 511.6 to 667.3 mm. The Aug-Sept-Oct total rainfall recorded was 604.5 mm. October's rainfall total of 117 mm, was **below** its climatological value of 243.8 mm.

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

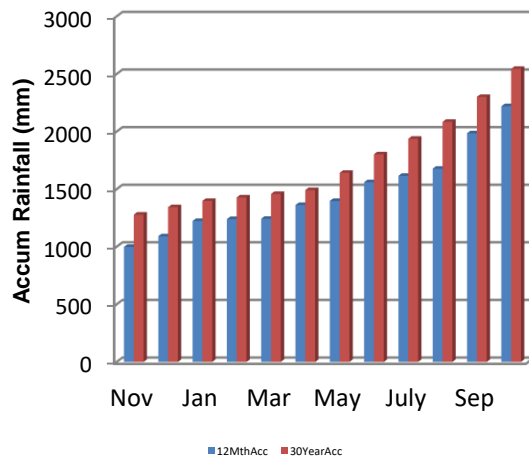


Figure 1. The graph displays the monthly accumulative rainfall over the past 12 months compared to the 30-year average. The rainfall totals for the past 12 months were **8.9% below** the 30-year average.

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

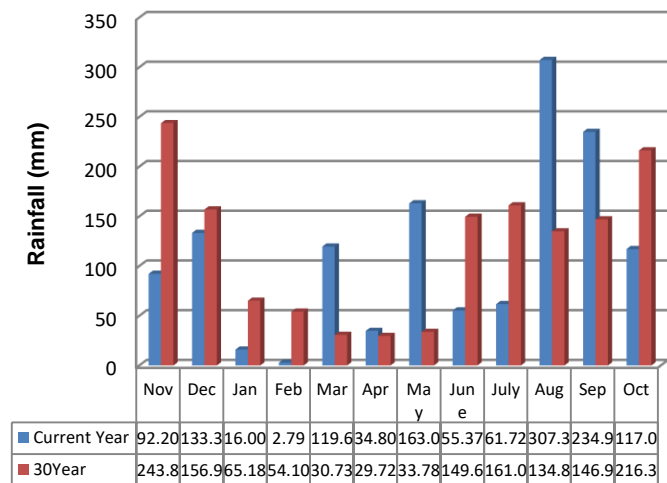
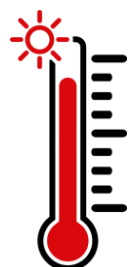


Figure 2. The graph displays the monthly rainfall totals over the past 12 months compared to the 30-year average. August 2023's rainfall total of 307.3mm is currently the highest for the period. Currently, the lowest for 2023 is February with 2.79mm.

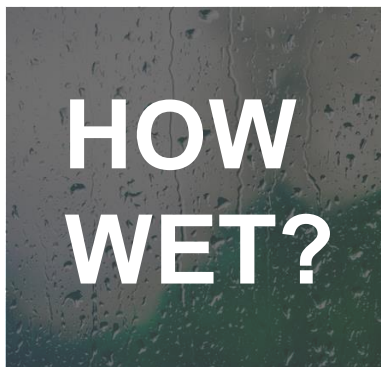
Temperature Review

The Aug-Sept-Oct average temperature recorded at Owen Roberts International Airport was 30.3°C, which was 10°C **above** the climatological average. October's average temperature was 29.8°C.

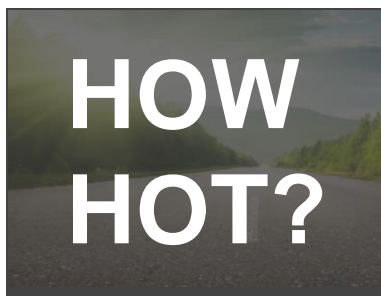
Temperature (°C)	Climatological Average (1991-2020)	Oct 2023		
		Highest	Avg	Lowest
Monthly Max	31.2	33.7	32.3	28.8
Monthly Min	25.2	25.1	26.5	23.8
Monthly Avg	28.5	31.4	29.8	27.0



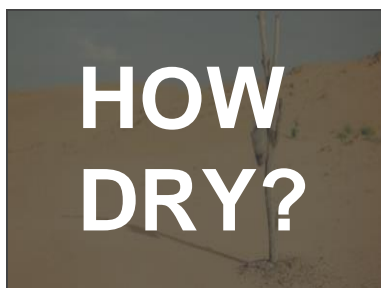
Outlook or What Should We Expect? (Nov 2023 – Jan 2024)



Climatological Rainfall Range				Forecast	
203.5 – 319.3 mm				20% Probability below 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
18-26	16-31	0.9-3	0.6-3.5	0-1	0-1.8



Climatological <u>Minimum</u> Temperature Range	Forecast	Climatological <u>Average</u> Temperature Range	Forecast	Climatological <u>Maximum</u> Temperature Range	Forecast
23.5°C – 23.9°C	70% Probability above average	26.2°C – 26.8°C	70% Probability above average	28.8°C – 29.3°C	70% Probability above average



Drought: Short term drought warning, with a long term drought watch.

No of 7-Day Dry Spells(Three 7 DDS)		No of 10-Day Dry Spells	
Climatological	Forecast	Climatological	Forecast
4-8	4-9	2-4	2-5

El Niño Southern Oscillation (ENSO)

Recent observations: An El Niño event has been declared, with Sea Surface Temperatures (SSTs) in the eastern equatorial Pacific nearing 1.5°C above average, indicative of moderate El Niño conditions.

Model forecast and guidance: The forecast models indicate a likely further anomalous warming of the eastern Pacific to exceed 1.5°C, with El Niño conditions in NDJ (100% confidence) and FMA (90% confid.).

Expected impacts on rainfall and temperatures: El Niño more often than not is marked by a warmer end to the heat season and reduced activity toward the end of the hurricane season. Rainfall tends to be lower than usual in the southeastern half of the region, but higher than usual in the far north.

- 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

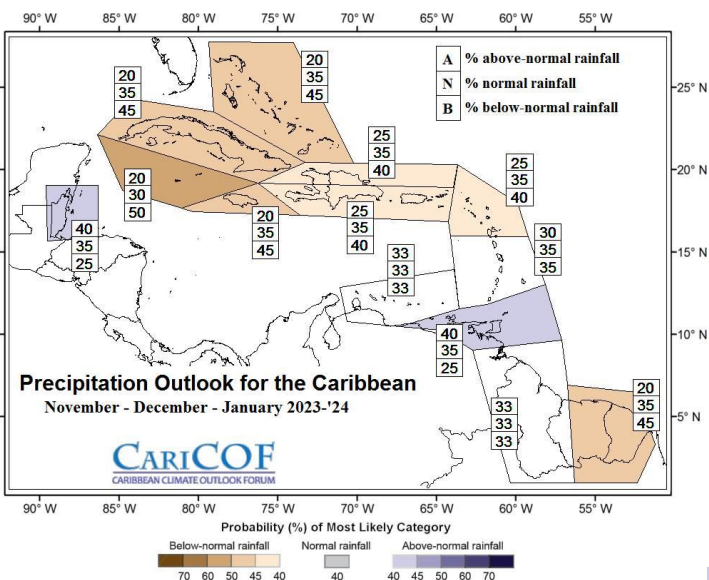


Figure 3: CariCOF Precipitation Outlook

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.