



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

May to Nov:
Wet Season

Jul to Aug: includes a
mid-summer dry spell

A possible transition
into El Niño is often
marked by a warmer
heat season, a drier
summer season, and
reduced tropical
cyclone activity.

What Happened (Mar 2023 – May 2023)

Rainfall Review

The Mar-Apr-May climatological rainfall range at Owen Roberts Airport is 167.9 to 264.4 mm. The Mar-Apr-May total rainfall recorded was 317.5 mm. May's rainfall total of 163.1 mm, was above its climatological value of 149.6mm.

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

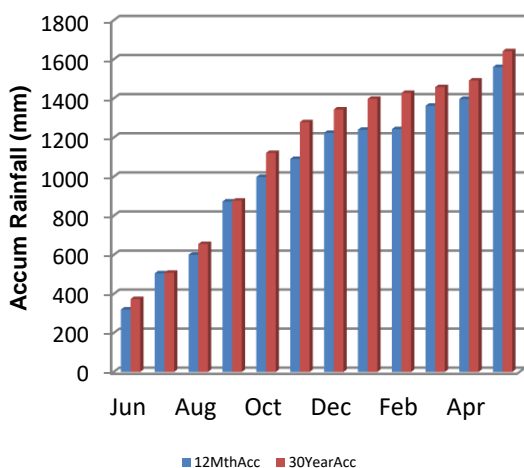


Figure 1. The graph displays the monthly accumulative rainfall over the past 12 months compared to the 30-year average. The rainfall totals for the past 12 months were 5.2% below the 30-year average.

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

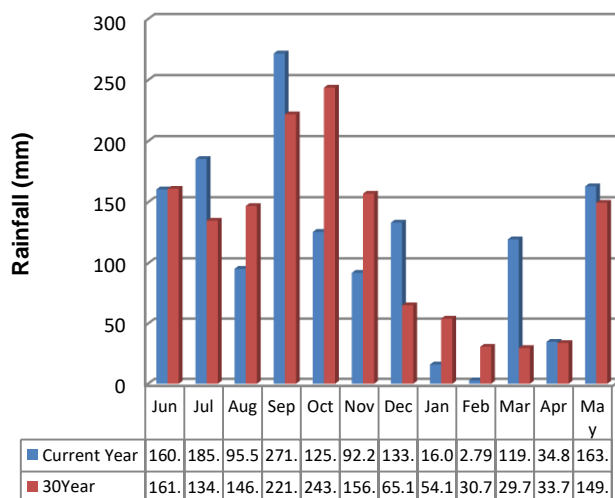


Figure 2. The graph displays the monthly rainfall totals over the past 12 months compared to the 30-year average. September 2022's rainfall total of 271.8mm is currently the highest for the period with 115.3mm of the total associated with the passage of Hurricane Ian (September 25th-26th). Currently, the lowest for 2023 is February with 2.79mm.

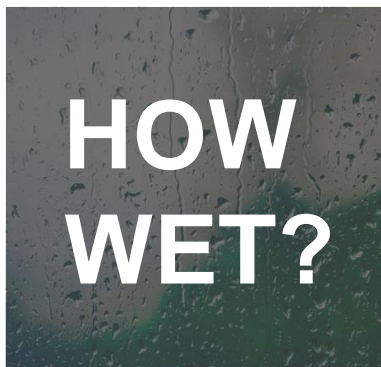
Temperature Review

The Mar-Apr-May average temperature recorded at Owen Roberts Airport was 28.2°C, which was 1°C below the climatological average.

Temperature (°C)	Climatological Average (1991-2020)	May 2023		
		Highest	Avg	Lowest
Monthly Max	31.0	33.1	31.8	29.2
Monthly Min	25.1	27.4	25.7	21.8
Monthly Avg	28.5	30.0	29.2	25.7



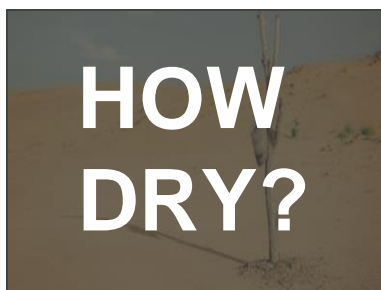
Outlook or What Should We Expect? (Jun 2023 – Aug 2023)



Climatological Rainfall Range				Forecast	
376.2-508.5 mm				Within Climatological Range	
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	29-46	3-5.8	2.8-6.6	0-1	0-1.1



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	70% Probability above average	29.5°C – 29.7°C	60% Probability above average	31.9°C – 32.2°C	60% Probability above average
Heat Outlook: Moderate heat impact potential					



Drought: No concern for short or long term drought.

No of 7-Day Dry Spells(Three 7 DDS)		No of 10-Day Dry Spells	
<i>Climatological</i>	<i>Forecast</i>	<i>Climatological</i>	<i>Forecast</i>
2-4	1-4	0-2	0-2

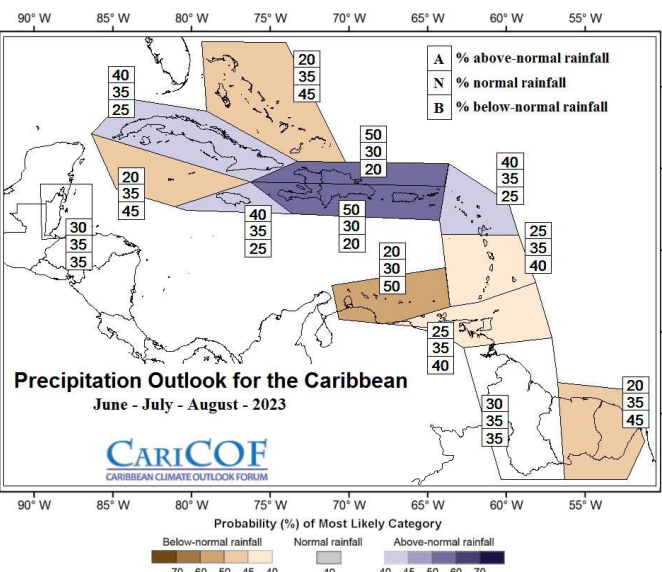


Figure 3: CariCOF Precipitation Outlook

El Niño Southern Oscillation (ENSO)

Recent observations: Sea Surface Temperatures (SSTs) in the eastern Pacific have risen from La Niña to slightly above average (ENSO neutral conditions) by mid-May.

Model forecast and guidance: The forecast models indicate a likely transition to El Niño conditions in JJA and SON (85-90% confidence).

Expected impacts on rainfall and temperatures: ENSO neutral offers little contribution to seasonal rainfall or temperature prediction in the Caribbean, but a transition into El Niño more often than not is marked by a warmer heat season, a drier summer season, and reduced tropical cyclone activity, especially from September to November.

- 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.