



# 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

Currently, we are in the Wet Season (May – October).

The Jun–Jul-Aug outlook calls for 45% probability of above normal rainfall.

July- Sept daytime temperatures may be warmer than usual.

July- Sept nighttime temperatures may be warmer than usual.

Jul to Aug – wet season. Often includes a mid-summer dry spell. Sept. - wet season. Usually frequent heavy showers.

## What Happened (Apr 2022 – June 2022)

### Rainfall Review

The Apr-May-Jun climatological rainfall range at Owen Roberts Airport is 294 to 379 mm. The Apr-May-Jun total rainfall recorded was 307 mm.

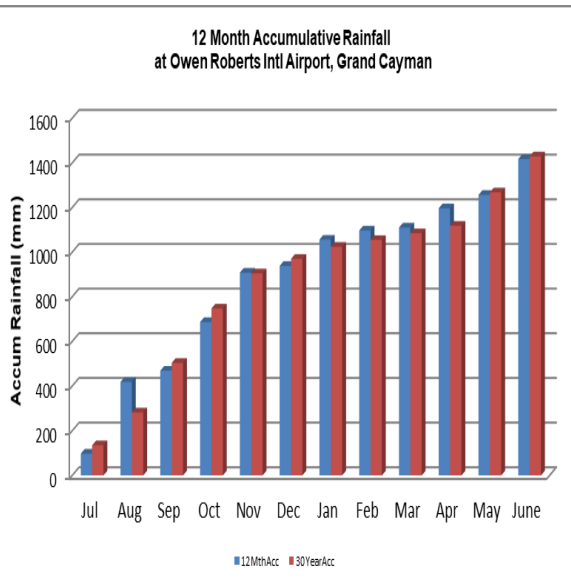


Figure 1. The graph displays the monthly accumulative rainfall over the past 12 months compared to the 30 year average. The rainfall totals for the past 12 months were 0.8% below the 30 year average.

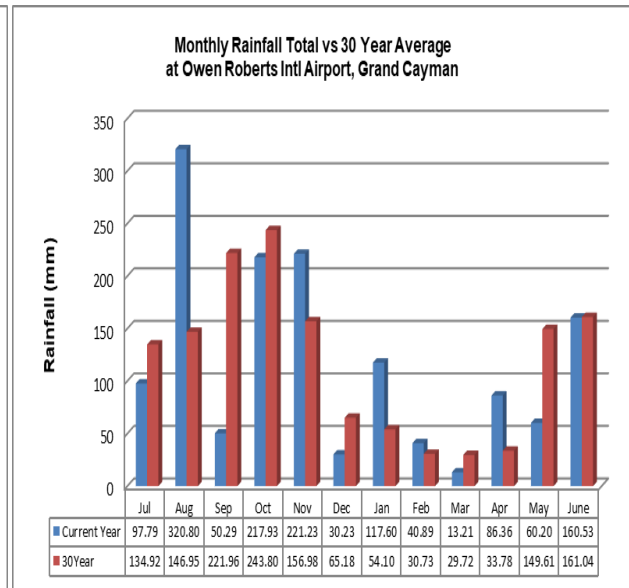
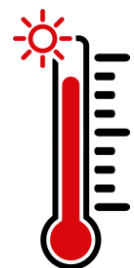


Figure 2. The graph displays the monthly rainfall totals over the past 12 months compared to the 30 year average. August's rainfall total of 320.8mm is the highest on record. September's rainfall total of 50.29mm is the lowest on record.

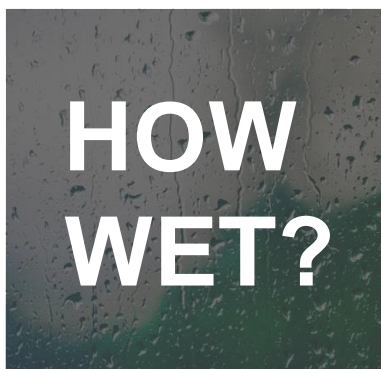
### Temperature Review

The Apr-May-Jun average temperature recorded at Owen Roberts Airport was 28.4°C, about 0.1°C less than the climatological norm.

Temperature (°C)	Climatological Mean (1991-2020)	Jun 2022		
		Highest	Mean	Lowest
Monthly Max	31.7	33.1	31.5	29.6
Monthly Min	25.8	28.3	25.5	22.5
Monthly Mean	29.3	30.3	28.9	26.3



# Outlook or What Should We Expect? (July 2022 – Sept 2022)



Climatological Rainfall Range				Forecast	
376.2 - 508.5mm				45% probability of above average rainfall	
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 – 44	31- 46	3.5 – 6.2	3.2 – 7.2	0 – 1	0 – 1

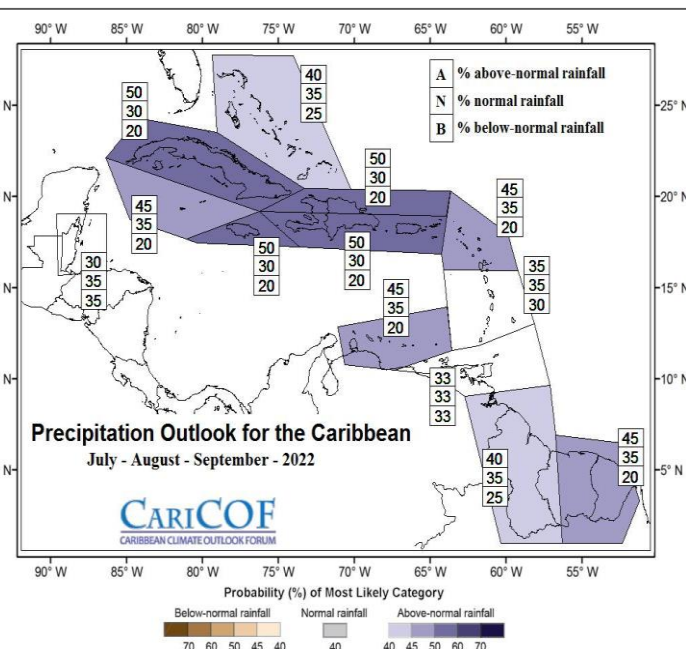


Climatological Minimum Temperature Range	Forecast	Climatological Average Temperature Range	Forecast	Climatological Maximum Temperature Range	Forecast
25.7°C – 26.1°C	50% probability <u>above</u> minimum	29.6°C – 29.8°C	50% probability of <u>above</u> average	31.9°C – 32.3°C	50% probability <u>above</u> maximum



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

No of 7-Day Dry Spells(Three 7 DDS )		No of 10-Day Dry Spells	
Climatological	Forecast	Climatological	Forecast
1 - 4	0 - 4 (40% probability)	0 - 2	0 - 2



## El Niño Southern Oscillation (ENSO)

**Recent observations:** Sea Surface Temperatures (SSTs) in the eastern Pacific remain below normal -0.6°C; La Niña conditions have maintained into the middle of 2022.

**Model forecast and guidance:** The models forecast indicate La Niña conditions in JAS (55-45% confidence), which may maintain into OND (60-55% confidence).

**Expected impacts on rainfall and temperatures:** La Niña tilts the odds to more rainfall activity in JAS and OND, 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.

- 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>

Figure 3: CariCOF Precipitation Outlook

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