



Highlights

Jul-Sept- usually frequent heavy showers.

Jul -Sept wet season, often including mid-summer dry spell.

Very wet spells are forecast to be more frequent than usual

There is a 50% probability of above normal temperatures July to Sept.

Daytime temperatures may be higher than usual.

Cayman Islands Monthly Climate Bulletin

The Cayman national 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.

What Happened

Rainfall Review

12 MONTH ACCUMULATIVE RAINFALL AT OWEN ROBERTS INTL AIRPORT, GRAND CAYMAN

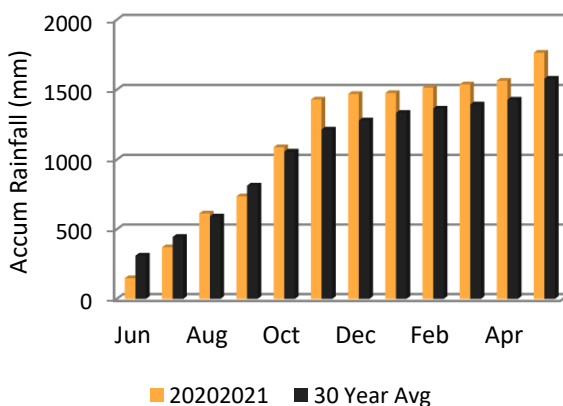


Figure 1. The graph displays the monthly accumulative rainfall over the past 12 months compared to the 30 year average. The rainfall totals for the past 12 months were 12% above the 30 year average.

MONTHLY RAINFALL TOTAL VS 30 YEAR AVERAGE AT OWEN ROBERTS INTL AIRPORT, GRAND CAYMAN

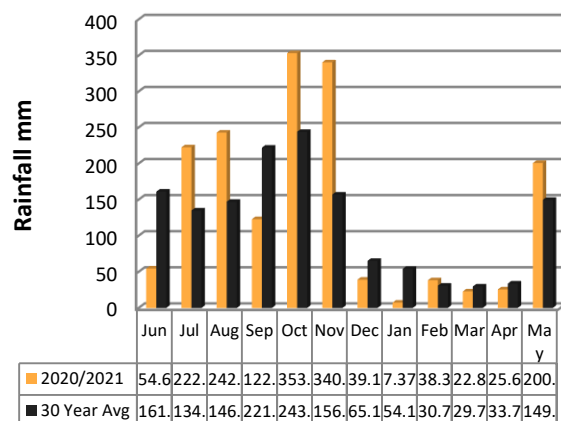
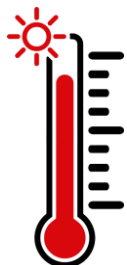


Figure 2. The graph displays the monthly rainfall totals over the past 12 months compared to the 30 year average.

Temperature Review



Temp(°C)	Climatological Mean (1991-2020)	May 2021		
		Highest	Mean	Lowest
Monthly Max	31.0	33.3	31.2	29.7
Monthly Min	25.1	26.6	25.0	22.0
Monthly Mean	28.6	30.2	28.8	27.3

Outlook or What Should We Expect? (July 2021 – Sept 2021)

HOW WET?

Precipitation: The climatological rainfall range for Mar-Apr-May at Owen Roberts Airport is 167.9 to 264.4 mm. Mar-Apr-May total rainfall was 249.2 mm which was within the climatological range. The climatological rainfall range for Jul-Aug-Sept is 408.9 to 585.2 mm. The Jul-Aug-Sept outlook calls for 40% probability of above normal rainfall.

Frequency of wet days: Historically, in Jul-Aug-Sept, there are about 31 to 46 wet days. The forecast indicates 29-48 wet days for the next 3 months.

Frequency of 7-day wet spells: Between 4 and 8 wet spells expected for Jul-Aug-Sept.

Frequency of extreme (top 1%) 3-day wet spells: The forecast indicates 0 - 1.5 number of extreme wet spells.

HOW HOT?

Temperature: Mar-Apr-May average temperature was 28.0 °C, which was about 0.4 °C more than the climatological mean.

The usual temperature range for Jul-Aug-Sept at Owen Roberts Airport is 29.2 °C to 29.7 °C. The outlook calls for 50% probability of above normal temperatures.

The usual or higher daytime temperatures are forecast over the period of Jul to Sept. Usually: 21 heatwave days over 3 months.

60% chance for at least 15 heatwave days .

HOW DRY?

Drought: Short term (end of July) there is no concern. Long term (end of May) there is no concern.

Frequency of 7-day dry spells: Historically, in Jul-Aug-Sept, there are about 2 to 4 dry spells. The forecast indicates about 1 to 5 for the next 3 months. There is a 40% probability of at least three 7-day dry spells.

Frequency of 10-day dry spells: Historically, 0-2 dry spells occur from Jul-Aug-Sept. The forecast indicates 0-2 dry spells.

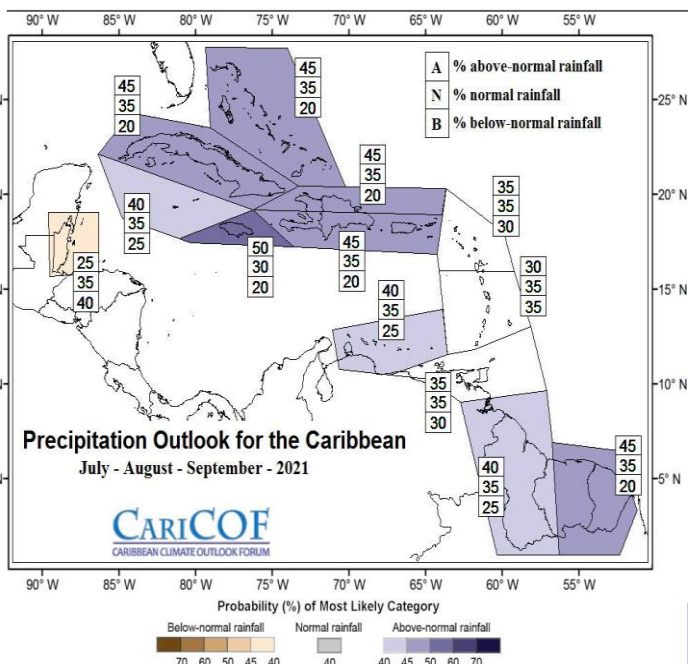


Figure 4: CariCOF Precipitation Outlook

Niño Southern Oscillation (ENSO)

Recent observations: Sea Surface Temperatures (SSTs) in the eastern Pacific SSTs have recently anomalously warmed to less than 0.5°C below average; cold-neutral ENSO conditions are in place.

Model forecast and guidance: The models favour ENSO neutral conditions into JAS (with about 70% confid.). Large uncertainties exist for OND with 45-50% and 35-50% chance of neutral and La Niña conditions, resp.

Expected impacts on rainfall and temperatures: ENSO neutral conditions tend to increase the level of uncertainty in the seasonal forecasts. If La Niña were to re-emerge in OND, it would tilt the odds to wetter and more stormy conditions. Heat during the Caribbean Heat Season tends to be attenuated in the year after the emergence of a La Niña event.

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>

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