



Cayman Monthly Climate “all in one” 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.

Highlights

No drought concern.

Rainfall totals from August to October are likely to be more than the usual or, are likely to be at least as wet as usual for Cayman.

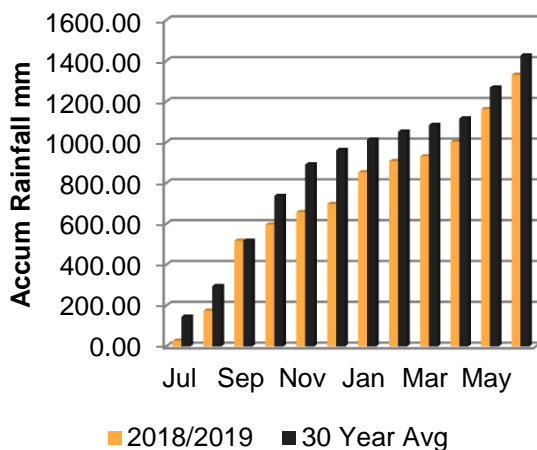
Aug - wet season. Often includes a mid-summer dry spell. Sep to Oct - wet season. Usually frequent heavy showers.

The Caribbean heat season runs from May till October. In most years, August is the hottest month and forms the peak of the heat season. The forecast suggests temperatures to be at least as warm as usual between August and January.

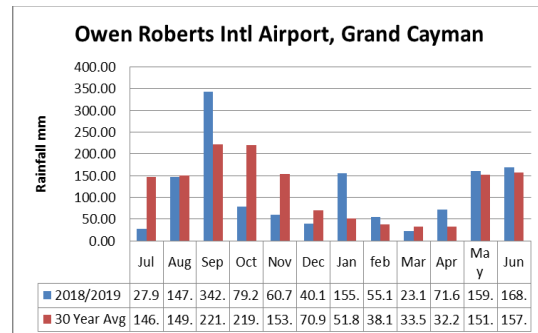
What Happened

Rainfall Review

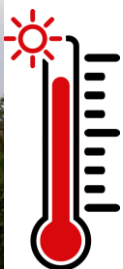
Owen Roberts Intl Airport, Grand Cayman



Below the usual amount of rainfall was accumulated for the season. The month of September and January had significant more than normal rainfall, but the accumulation for the year was still below the 30 year average. After few hours of rain on the 25th June, flooding was observed in George Town. This accounted for 70% of the rainfall that fell in the month of June.



Temperature Review

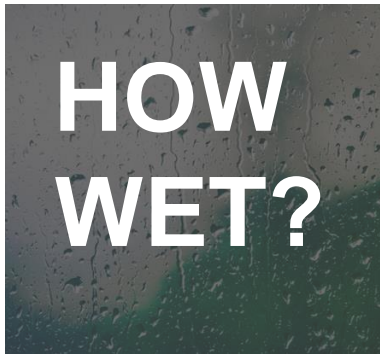


Temp(°C)	Climatological Mean (1981-2010)	June '2019	
		Highest	Lowest
Monthly Max	31.6	33.5	30.6
Monthly Min	25.5	27.5	24.2
Monthly Mean	29.0	30.8	28.4

The average daytime maximum temperature for June was 32.5 °C at Owen Robert Intl Airport was above the long-term average (1981 – 2010) which stands at 31.6 °C.

Flooding on June 25 2019, Photo courtesy Winston Gall

Looking Forward or Outlook or What Should We Expect? (July August September 2019)



Precipitation: The usual rainfall range for April to June at Owen Robert Airport is 293.9 mm – 379.2 mm. Apr 2019 to Jun 2019 was 400.6 mm which was above average. The August to October outlook call for 45% probability of above normal rainfall.

Frequency of wet days: Historically, in Aug-Sept-Oct, there are about 34 to 46 wet days. The forecast indicates about the same wet days for the next 3 months.

Frequency of 7 – day wet spells: Between 4 and 7 wet spells occur from Aug to Oct. The forecast indicates about the same wet spells for Cayman.

Frequency of extreme (top 1%) 3 – day wet spells: The forecast indicates the number of extreme wet spells might be slightly close to the usual 0 to 2.



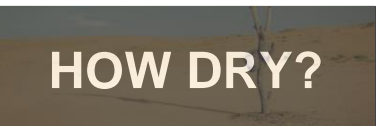
Temperature: April 2019 to June 2019 average temperature was 84.1°F which was above normal. The usual temperature range for August to October at Owen Robert Airport is 28.8 to 29.2 °C. The outlook calls for 50% probability of above normal temperatures.

Heatwave: In most years, at least 10 heatwave days are counted from August to October .

Forecast: At least 40%(50%) chance that there will be at least 14(7) heatwave days from July to September 2019.

Usually: up to 6 heatwave days are expected in August

Forecast: 50% chance of 3 or more heatwave days in August



Drought: There is no concern for short or long term drought.

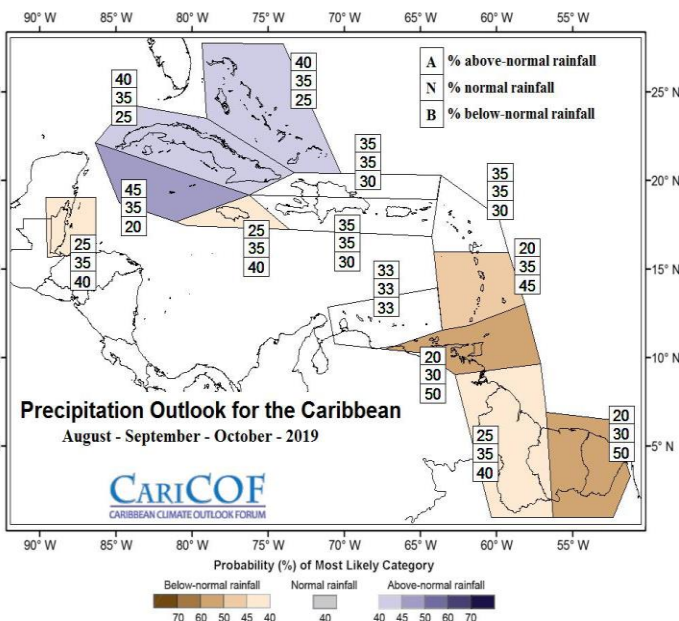


Figure 4: CariCOF Precipitation Outlook

El Niño Southern Oscillation (ENSO) Update

Recent observations: In the past month, sea-surface temperature (SSTs) in the tropical Pacific anomalously decreased to a marginal El Niño level with SST anomalies about 0.5°C above average.

Model forecast and guidance: Most models suggest ENSO neutral conditions to develop during ASO (with 55-60% confidence) and possibly maintain ENSO neutral through NDJ (40-50% confid.).

Expected impacts on rainfall and temperatures: The return to neutral ENSO phase tends to decrease forecast skill with no real signal of this driver of rainfall or temperature in any part of the Caribbean. In such situations, climate conditions in the Caribbean region may be more affected by North Atlantic SST variability.

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 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 Met Services 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.