

MINISTRY OF AGRICULTURE HYDROMETEOROLOGICAL SERVICE

WEATHER BRIEF for Sunday December 10, 2017 from the Hydrometeorological Service, Guyana

Rainfall records for the past 24 hours, measured at 08:00hrs Sunday December 10, 2017, were available for most of the stations.

The highest rainfall of 32.0mm was recorded at Strathavon in Region 4.

Synopsis: A mid to upper level trough is producing strong subsidence over most of the forecast area thereby diffculting convective cloud growth. Notwithstanding, the presence of an entrance to the Sub-Tropical Jet, to the north-east of Guyana, is producing pockets moderately convective clouds. This configuration is likely to persist for the next 48 hrs.

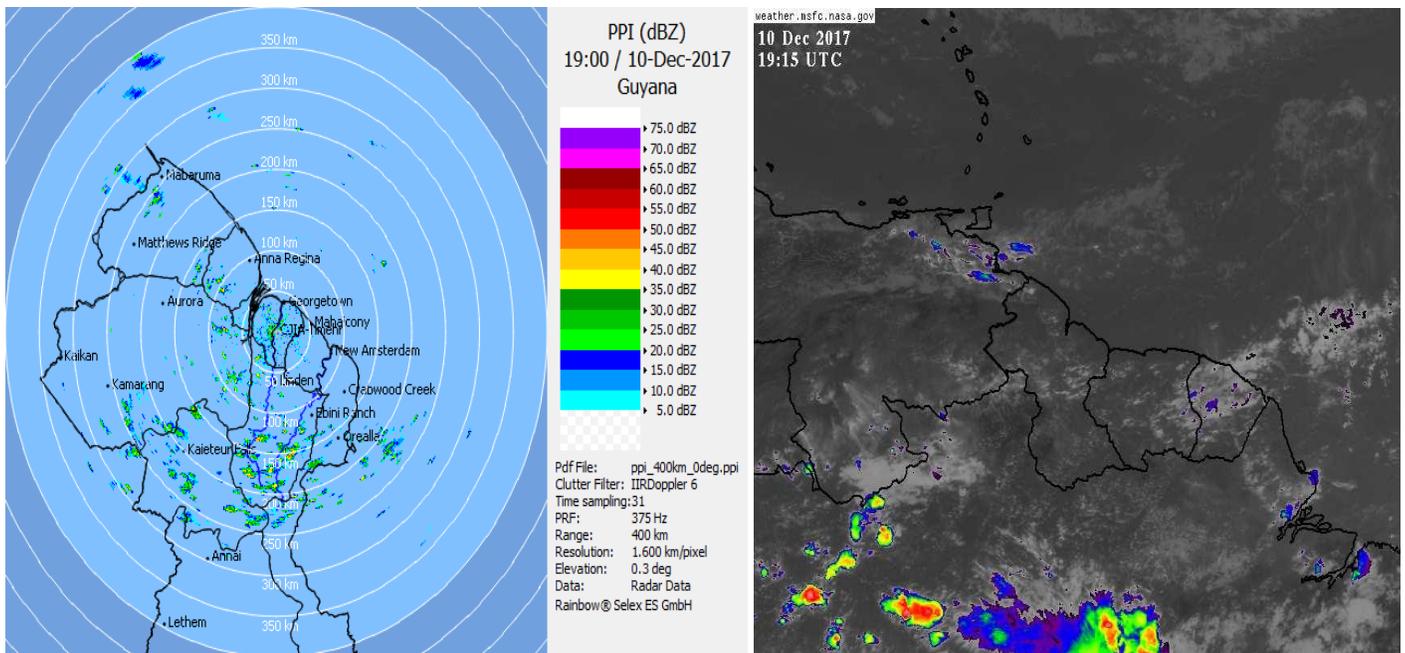
Today's weather review: Mostly cloudy skies with light showers and intermittent rain were experienced over Regions 3 to 8 and 10. Isolated moderate showers were also experienced. Partly cloudy skies were experienced elsewhere.

Table # 1 Weather forecast for the next Twenty-four hours.

Sunday December 10, 2017 (19:00 hrs – 07:00 hrs)			Monday December 11, 2017 (07:00 hrs – 19:00 hrs)		
Regions	Weather Conditions	Mostly cloudy skies with light showers and intermittent rain are expected throughout Guyana tonight. Isolated moderates showers are also likely over Regions 7, 8 and 10.	Regions	Weather Conditions	Mostly cloudy skies with light shower and intermittent rain are likely over Regions 3 to 8 and 10. Parts of Regions 7 and 10 may also experience spells of moderate showers. Regions 1 and 9 can expect partly cloudy skies with isolated showers.
Regions 1 to 10	 Rainfall between: 5.0 mm to 20.0 mm.	Winds: North-easterly between 2 m/s and 4 m/s. Minimum temperatures: Coast: 22 °C – 24°C Hinterland: 18 °C – 22 °C	Regions 3 to 8 and 10	 Rainfall between: 5.0 mm and 25.0 mm	Winds: North-easterly to easterly between 3 m/s and 8 m/s. Maximum temperatures: Coast: 29 °C – 32°C Hinterland: 29 °C – 34 °C
			All other locations	 Rainfall between: 0.0 mm and 5.0 mm	

The long-term daily average rainfall for Georgetown, for the next 10 days, December 10 to December 19, 2017 is 9.2 per day.

Warnings: NIL



Radar and Infra-red Satellite images valid 19:15 UTC (15:15hrs) Sunday 10 December, 2017

Our Mission: To Observe, archive and understand Guyana's weather, and Climate and provide meteorological, hydrological and oceanographic service in support of Guyana's national needs and international obligation.

***MINISTRY OF AGRICULTURE
HYDROMETEOROLOGICAL SERVICE***

Table # 2 Occurrences of high and low tides for the next 24 hours and the times for sunrise and sunset.

Tonight December 10, 2017)		Tomorrow Morning (December 11, 2017)		Tomorrow Afternoon (December 11, 2017)	
<i>High Tide 21:57hrs Height 2.52m</i>		<i>Low Tide 04:30hrs Height 1.10m</i>		<i>Low Tide 17:02hrs Height 1.04m</i>	
		<i>High Tide 11:29hrs Height 2.59m</i>			
<i>Sunrise</i>		<i>05:53hrs</i>	<i>Sunset</i>		<i>17:37hrs</i>

Sea conditions: MODERATE TO ROUGH SEAS WITH WAVES REACHING HEIGHTS OF 2.5 TO 3.0 METERS IN OPEN WATERS

Extended Forecast

Tuesday and Wednesday: Mostly cloudy skies are expected over the forecast area. These conditions are forecast to be accompanied by light to moderate showers with intermittent rain. Rainfall is forecast to range between **10 mm and 35 mm**.

Thursday thru' Saturday: Partly cloudy skies and isolated showers are likely to prevail over regions 1 to 8 and 10. Parts of regions 7 and 10 may experience afternoon cloudiness with moderate showers. Region 9 may experience cloudy skies with light to moderate showers. Rainfall is forecast to range between **10 mm and 30 mm** over region 9 and **0 mm and 15 mm** elsewhere.

Seasonal Information (UPDATED 13 November, 2017) – La Niña Watch

La Niña conditions are predicted to continue (~65-75% chance) at least through the Northern Hemisphere winter (November – March) 2017-18.

According to the ENSO update issued on Thursday 09 November, 2017, by the Climate Prediction Centre, during October, weak La Niña conditions emerged as reflected by below-average sea surface temperatures (SSTs) across most of the central and eastern equatorial Pacific Ocean. Sub-surface temperatures remained below average during October, reflecting the anomalously shallow depth of the thermocline across the central and eastern Pacific. Also, convection was suppressed near the International Date Line and slightly enhanced over parts of the Maritime Continent and the Philippines. Over the equatorial Pacific Ocean, low-level trade winds were mainly near average, but the upper-level winds were strongly anomalously westerly and the Southern Oscillation Index was positive.

For the remainder of the Northern Hemisphere fall and winter 2017-18, a weak La Niña is favoured based on several models. The consensus of forecasters is for the event to continue through approximately February-April 2018.

The latest Caribbean Climate Outlook Forum (CARICOF) precipitation outlook, for the period November-December-January 2017-18 indicates that Guyana can expect a 45% probability of above-normal, 35% normal and 20% below-normal. For a Regional forecast please see the Guyana's Seasonal Climate Outlook November-December-January 2017-18 produced by the Climatological section of the Hydrometeorological Service. Surface analysis shows that the Inter-tropical Convergence Zone (ITCZ) is currently oscillating mostly between 06 ° North to 10 ° north. Additionally, surface troughs are passing further north. These and other dynamic and thermodynamic features in the atmosphere indicate that Guyana is still in the second dry season for the year and is slowly transitioning into the secondary rainy season which is expected to start during the last week in November to the first week in December. Based on the current and expected ENSO conditions and the CARICOF precipitation outlook, Guyana can expect above normal to normal rainfall during the next three (3) months.

Update in the bulletin is provided daily by the Hydromet Service: www.hydromet.gov.gy

Meteorologist: L. Alves

Our Mission: To Observe, archive and understand Guyana's weather, and Climate and provide meteorological, hydrological and oceanographic service in support of Guyana's national needs and international obligation.