

Weekly Weather Summery

15-21 October 2020

1. Rainfall

South-west monsoon condition was dominated over first two days of the week and some rainfall was occurred in the south-western part of the country during these two days. Scattered convective activities had been occurred in eastern and northcentral provinces during the 17th -19th October period. Light or light to moderate showers had been reported over the southwestern parts in later part of the week.

Moderate showers had been reported in hydro-catchment areas which are in western slope of the central hills on 15th as well as light to moderate showers on 21st.

Daily highest rainfall, 56.2mm had been reported from Wallipuram (Jaffna district) on 17th. Weekly total rainfall, 68.1 mm had been reported in Polatagama during this week.

However, except of some showers in southwestern and northeastern parts, dry weather was prevailed over elsewhere during this week.

Figure 1 illustrates weekly total rainfall distribution while figure 2 represents weekly total rainfall at main meteorological stations, catchment areas and reported highest weekly total rainfall

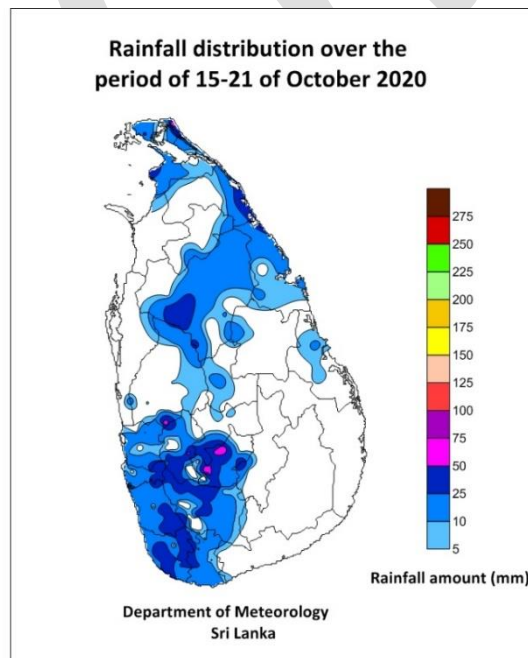


Figure 1: Total rainfall (mm) during the week

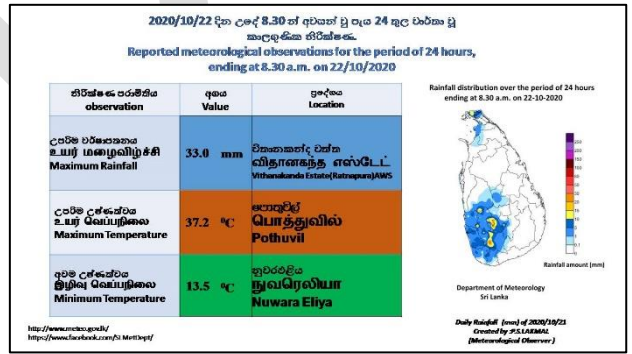
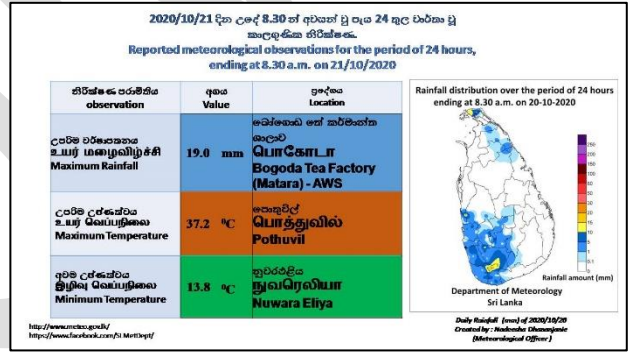
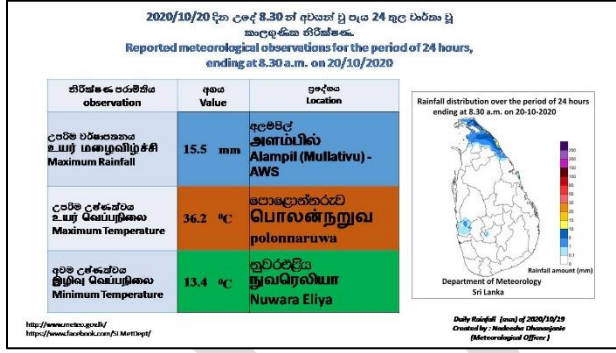
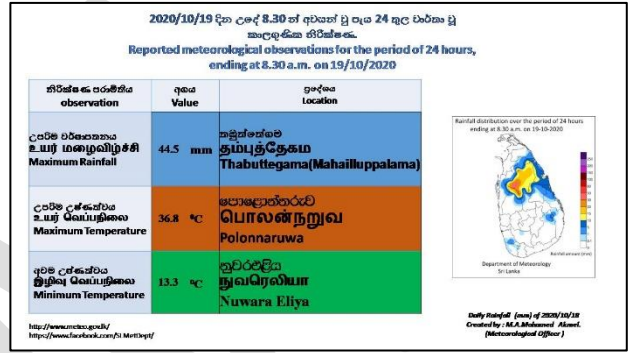
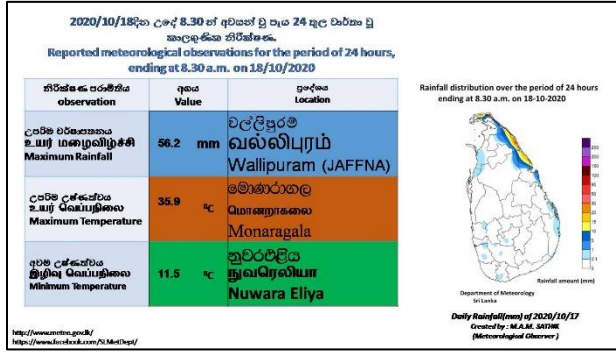
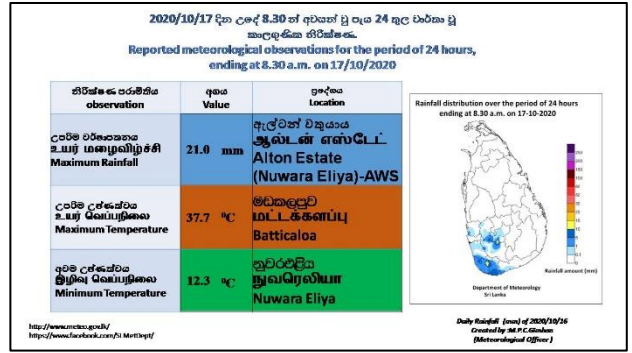
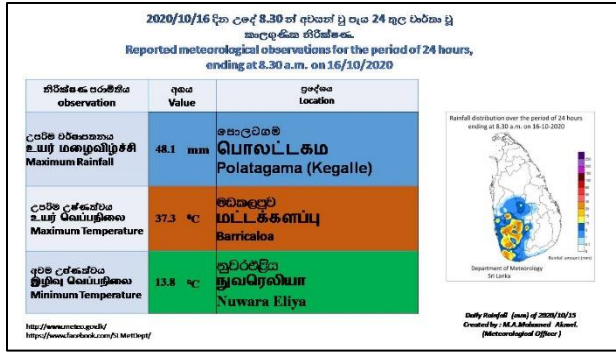


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (0C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	31.1
Badulla	0.0
Bandarawela	0.3
Batticaloa	0.0
Colombo	10.0
Galle	40.6
Hambanthota	0.1
Jaffna	22.7
Monaragala	0.0
Katugasthota	7.4
Katunayake	15.3
Kurunagala	7.4
Maha Illuppallama	12.5
Mannar	1.7
Polonnaruwa	0.0
Nuwara Eliya	13.4
Pothuvil	0.0
Puttalam	0.0
Rathmalana	20.1
Rathnapura	21.3
Trincomalee	23.8
Vavuniya	4.1
Mattla	0.0

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	54.5
Norton	57.5
Maussakele	39.0
Canyon	43.5
Lakshapana	55.4
Upper Kotmale	24.2
Kotmale	48.0
Victoriya	0.0
Randenigala	0.0
Rantambe	0.0
Bowatenna	15.1
Ukuwela	5.3
Samanala Wawa	0.0
Kukuleganaga	47.0
Maskeliya	10.7

Other Rainfall Stations	
Station	Rainfall (mm)
Polatagama	68.1
Watawala	62.9
Wallipuram	59.2
Udaradella	51.2
Thabuttegama	44.5
Elston	44.3
Alampil	42.4

Table-01 Total Rainfall (mm) at Main Meteorological stations, hydro catchment areas and other rainfall stations during the week.

2. Temperature

2.1 Maximum temperature

The highest day time (maximum) temperature, 37.7 °C was reported from Batticaloa on 16th October (Figure 3.a). Nuwara Eliya was reported its highest maximum temperature 20.9 °C, on 18th.

Above normal maximum temperatures were reported at many stations throughout the week. Weekly highest maximum temperature positive anomaly, 4.8°C reported at Batticaloa on 20th. And highest maximum temperature negative anomaly, 3.2°C at Nuwara-Eliya on 15th.

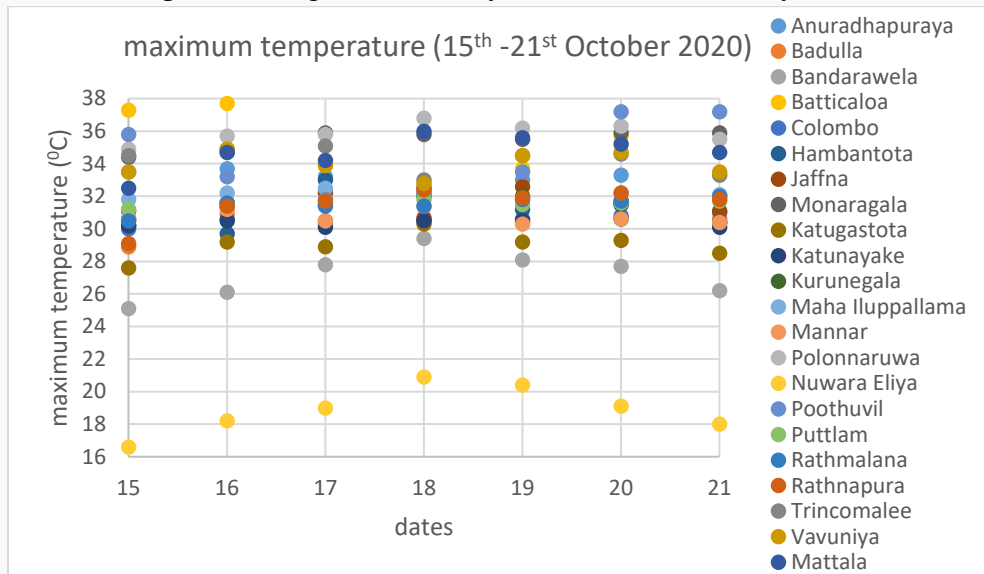


Fig 3.a: maximum temperature

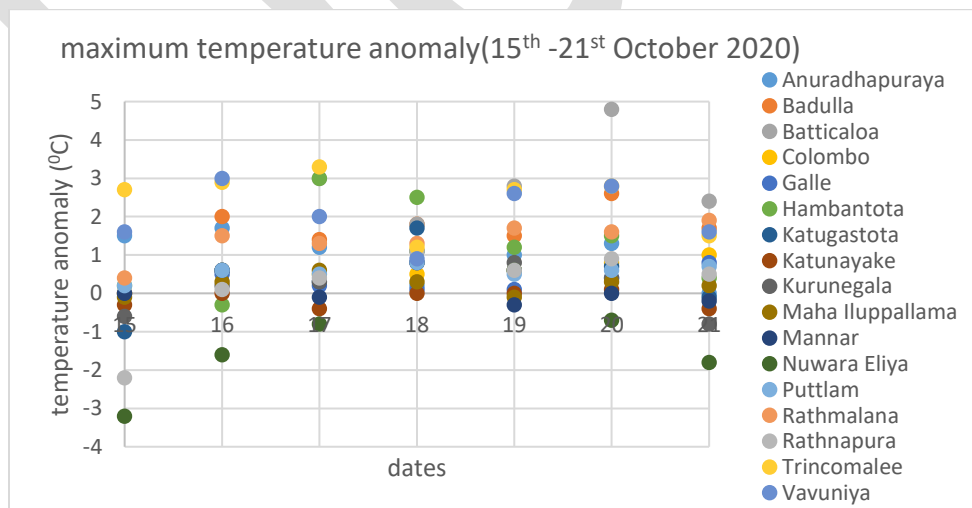


Fig 3.b: maximum temperature anomaly

Figure 3. Maximum temperatures (°C) and anomalies (°C) during the week

2.2 Minimum temperature

The weekly lowest minimum temperature, 13.0 °C was reported as usual from Nuwara-Eliya station on 20th October. The weekly highest minimum temperature 29.8 °C, was reported at Jaffna on 20th (Fig 3.c). Above normal minimum temperatures had been reported at many stations throughout the week (Fig 3.d). Highest minimum temperature positive anomaly 3.5 °C was reported at Rathmalana (Fig 3.d) on 19th. Highest minimum temperature negative anomaly 1.9 °C was reported at Badulla on 18th.

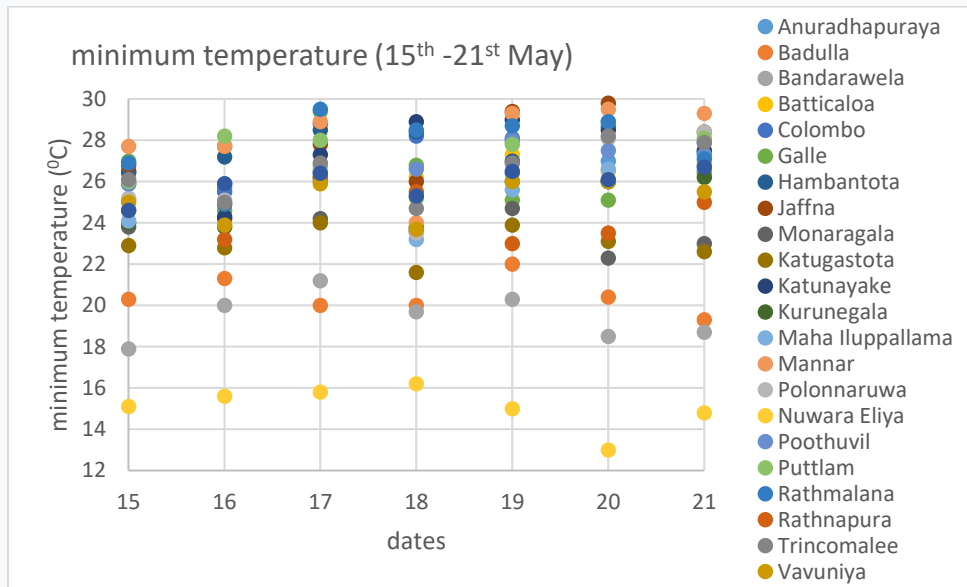


Fig 3.c: minimum temperature

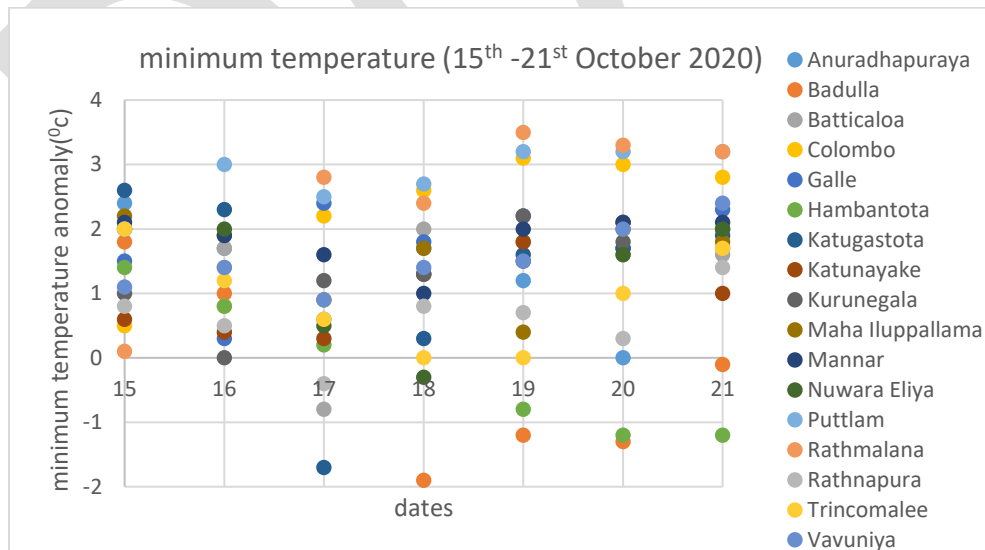


Fig 3.d: anomaly of minimum temperature

Figure 3. Minimum temperatures (°C) and anomalies (°C) during the week

3. Winds

Light or light to moderate southwesterly surface winds were prevailed during this week.

Upper winds at 850hPa:

Strong westerly winds were prevailed over the Island during the first two days of the week. Then moderate, northwesterly winds were prevailed over the country and it was changed to fresh westerly 20th onwards.

Westerly weekly average observed winds were prevailed over the island (Figure 4.a) at 850hpa during this week. Northwesterly to westerly climatological (Figure 4.b) winds are circulated in the Northeastern sea area at 850hpa. Westerly moist wind anomaly (Figure 4.c) was prevailed over the southern half of the country and similar moist condition over the elsewhere over the Island at 850hpa during this week.

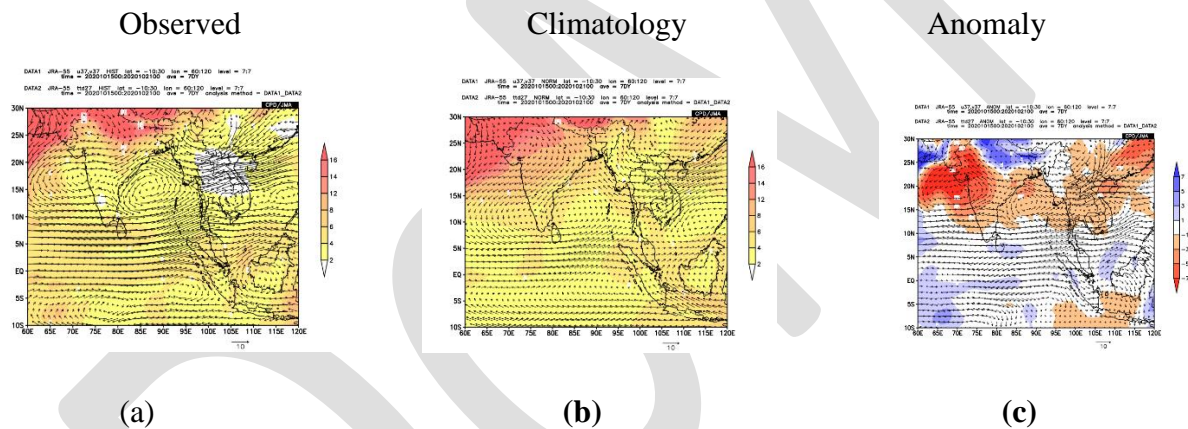


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Westerly, strong winds were prevailed over the country first two days of the week and later it was northwesterly to westerly, moderate.

North-northwesterly weekly averaged Observed winds were dry, westerly (Figure 5.a) and dry, northwesterly climatological (Figure 5.b) winds are circulated over the northeastern sea area at 700hPa level during this week. Northeasterly, dry wind anomaly (Figure 5.c) was prevailed over the northern areas of the country and moist wind anomaly was prevailed over elsewhere at 700hpa during this week.

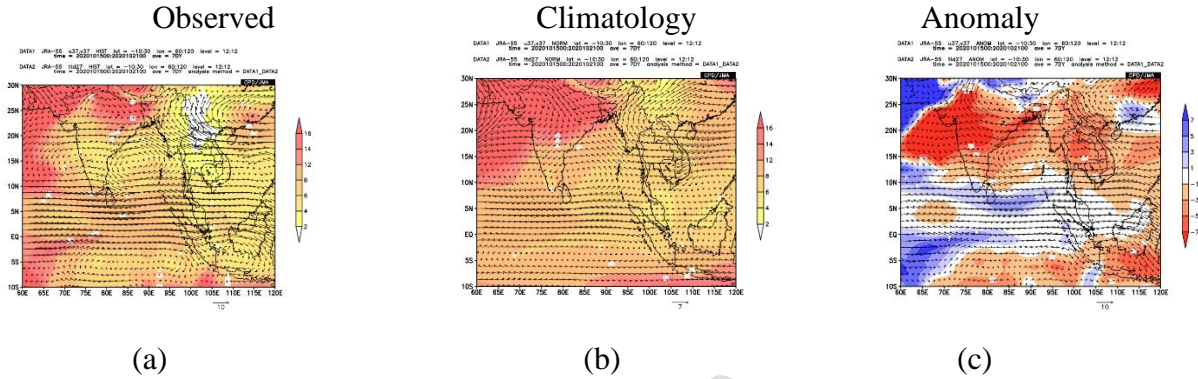


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Moderate northwesterly winds were changed to light, variable 17th onwards at 500hpa.

Westerly, dry weekly averaged (Figure 6.a) winds were prevailed over the island at 500hpa level during this week. The climatological wind pattern is easterly or variable and dry (Figure 6.b) over the Island. However, westerly moist wind anomaly (Figure 6.c) was prevailed over the Island at 500hpa level during this week.

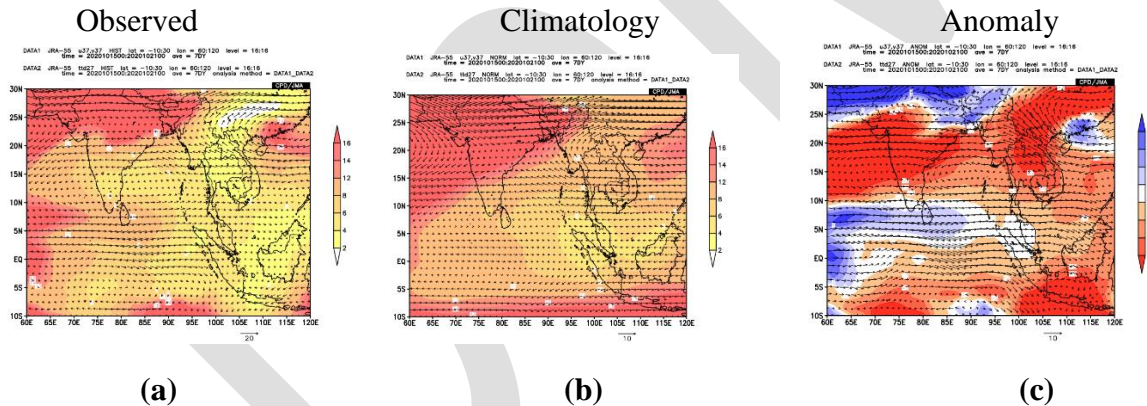


Figure 6: wind pattern with dewpoint departures at 500hpa

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Rainfall (mm)	Winds (knots)	Pressure distribution (hpa)	Pressure gradient (hpa)
Light : 00-12.5	Light :00-05	Even :0.0-0.4	Mild : 1.0-1.9
Light to moderate: 12.5-25.0	Light to moderate :05-10	Fairly even: 0.5-0.9	Moderate : 2.0-2.9
Moderate : 25.0-50.0	Moderate :10-15		Steep : 3.0-3.9
Fairly heavy : 50.0-100.0	Fresh :15-20		Very steep :4.0-4.9
Heavy : 100.0-150.0	Strong :20-30		
Very heavy : 150 and over	Very strong :30 and over		