

Weekly Weather Summery

08 -14 October 2020

1. Rainfall

Showers had been received in southwestern parts throughout the week except of 08th October. However, afternoon thunder showers had been received in Trincomalee, Vavuniya and Anuradhapura districts on 08th as well in Uva province on 09th.

Showers had been received continuous in hydro catchment areas in Kandy and Nuwara-Eliya districts since 09th. However, fairly heavy to heavy rainfall had been reported in hydro-catchment areas on 11th, 13th and 14th.

Except of 12th, fairly heavy to heavy daily highest rainfall had been reported throughout the week. However, highest daily accumulated (24 hour) rainfall, 116.9 mm was reported from Norton (Nuwara Eliya district) on 11th October.

Highest weekly total rainfall, 308.9 mm had been reported in Castlereigh during this week. And above 200mm weekly total rainfall had been reported in hydro catchment areas in Kandy and Nuwara-Eliya districts too.

Figure 1 represents total rainfall during this week and Figure 2 represents weekly total rainfall at main meteorological stations, catchment areas and reported highest weekly total rainfall at rainfall stations.

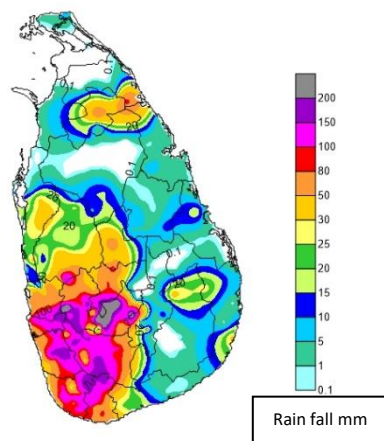


Figure 1: Total rainfall (mm) during the week

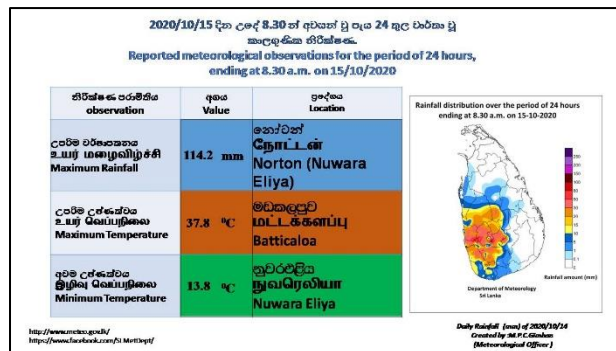
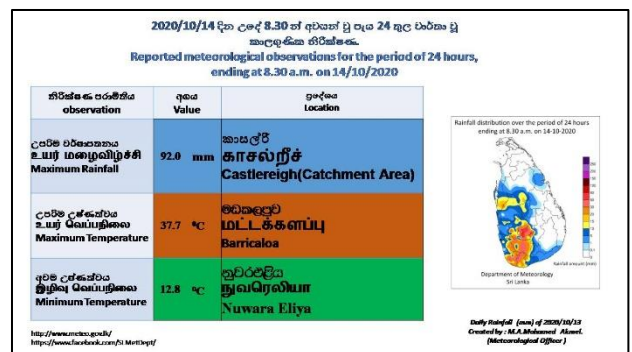
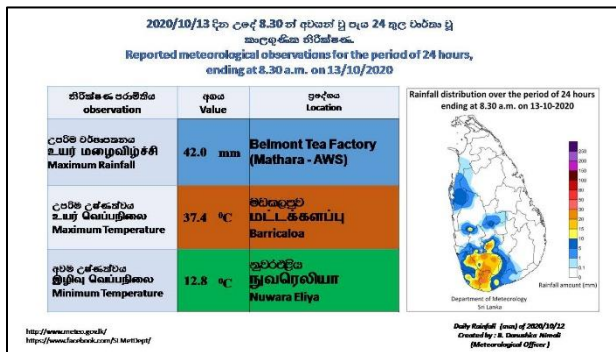
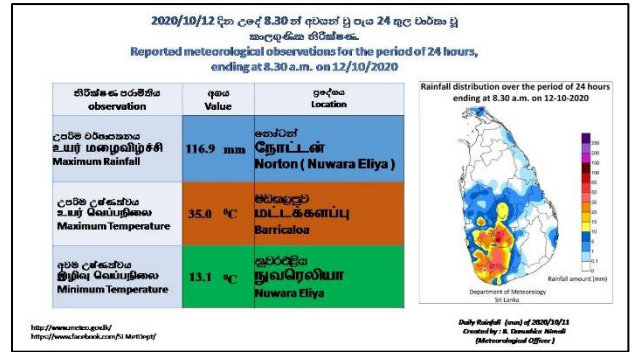
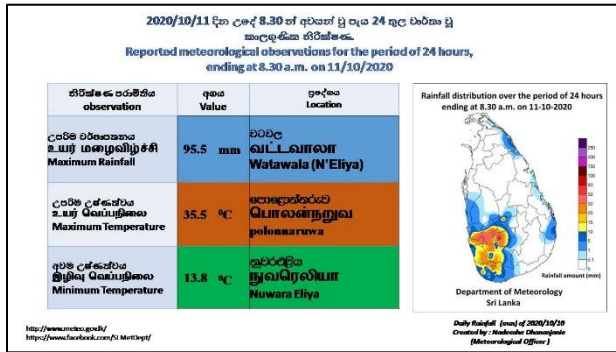
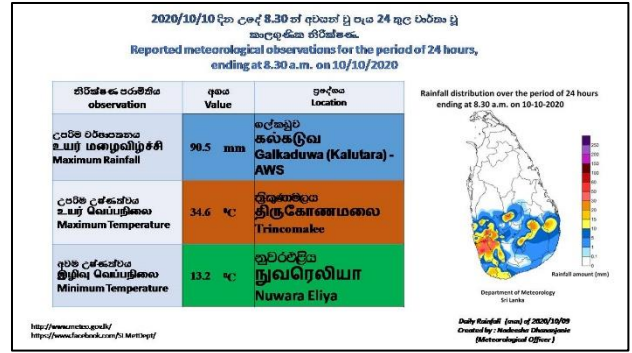
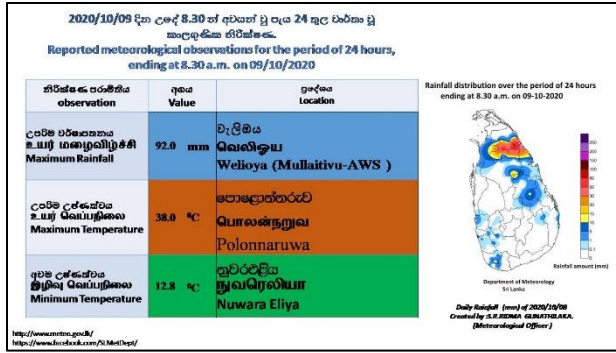


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (⁰C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.3
Badulla	1.9
Bandarawela	32.8
Batticaloa	2.9
Colombo	97.2
Galle	94.1
Hambanthota	11.5
Jaffna	0.0
Monaragala	3.2
Katugasthota	45.1
Katunayake	45.2
Kurunagala	43.6
MahaIlluppallama	15.1
Mannar	1.9
Polonnaruwa	1.9
Nuwara Eliya	92.3
Pothuvil	14.5
Puttalam	17.3
Rathmalana	71.9
Rathnapura	148.2
Trincomalee	3.9
Vavuniya	0.9
Mattala	4.5

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	308.3
Norton	377.1
Maussakele	200.7
Canyon	293.1
Lakshapana	333.8
Upper Kotmale	147.1
Kotmale	214.3
Victoriya	4.3
Randenigala	0.0
Rantambe	0.0
Bowatenna	64.6
Ukuwela	109.6
Samanala Wawa	10.0
Kukuleganaga	126.0
Maskeliya	190.3

Rain Gauge Stations	
Station	Rainfall (mm)
Keeragala, Kuruvita	183.5
WKK Lanka Co (PVT) Ltd	183.5
Elston	187.5
Yatiyanthota	191.1
Dikoya Estate Factory	192
Pimbura Hospital	195
Deniyaya Tea Estate	200.5
Padukka Estate	202.6
Deniyaya	210.5
Dunkeld Estate Factory	219
Selathalaramaya, Kirindiwela	220.5
Kotagala Rosita	269.5
Helboda North	272.6
Udaradella	285.5
Moralioya	296

Table 1: Total weekly Rainfall (mm) at Main Meteorological stations, Hydro-catchment areas and some rain gauge stations during the week.

2. Temperature

2.1 Maximum temperature

The highest day time (maximum) temperature, 37.8 °C was reported from Batticaloa on 14th October (Figure 3.a). Further, same station had been reported daily maximum temperature 11th on wards. Nuwara Eliya was reported its highest maximum temperature 22.4 °C, on 08th. Above normal maximum temperatures had been reported at all most all stations on 08th (Figure 3.b). Weekly highest maximum temperature positive anomaly, 6.9°C reported at Batticaloa on 14th. Further it had been reported more than 6.5°C positive anomaly during the last three days of the week. And highest maximum temperature negative anomaly, 3.7°C at Nuwara-Eliya on 14th.

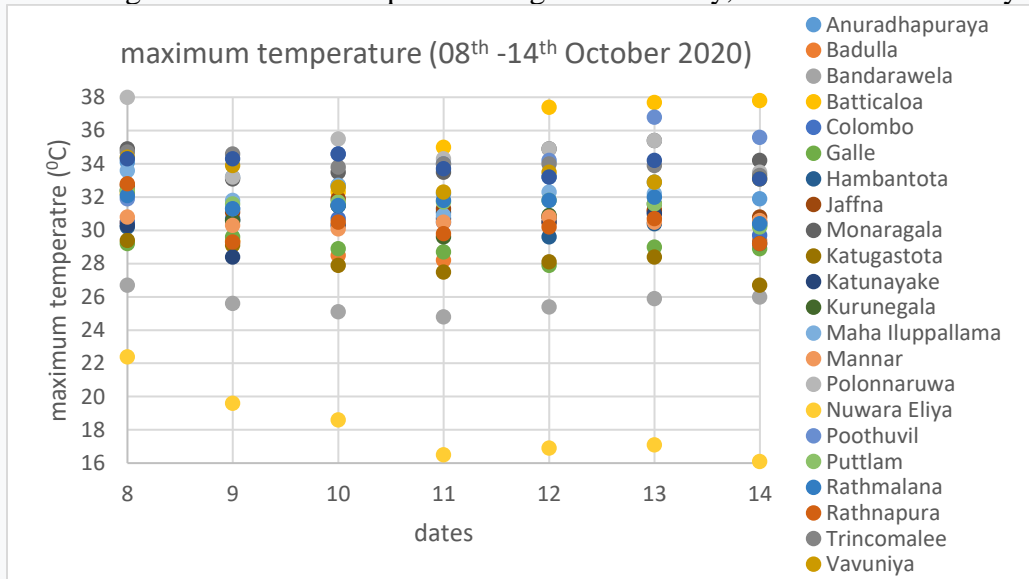


Fig 3.a: maximum temperature

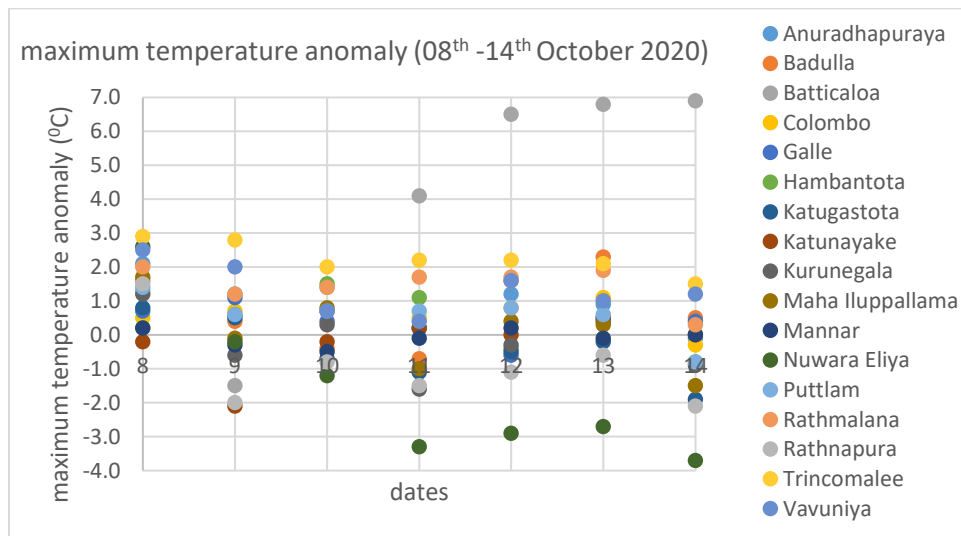


Fig 3.b: maximum temperature anomaly

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 11.6 °C was reported as usual from Nuwara-Eliya station on 08th October (Fig 3.c). Above normal minimum temperatures had been reported at many stations throughout the week (Fig 3.d). Highest minimum temperature positive anomaly 3.0 °C was reported at Puttalam (Fig 3.d) on 12th. Highest minimum temperature negative anomaly 1.8 °C was reported at Puttalam on 09th.

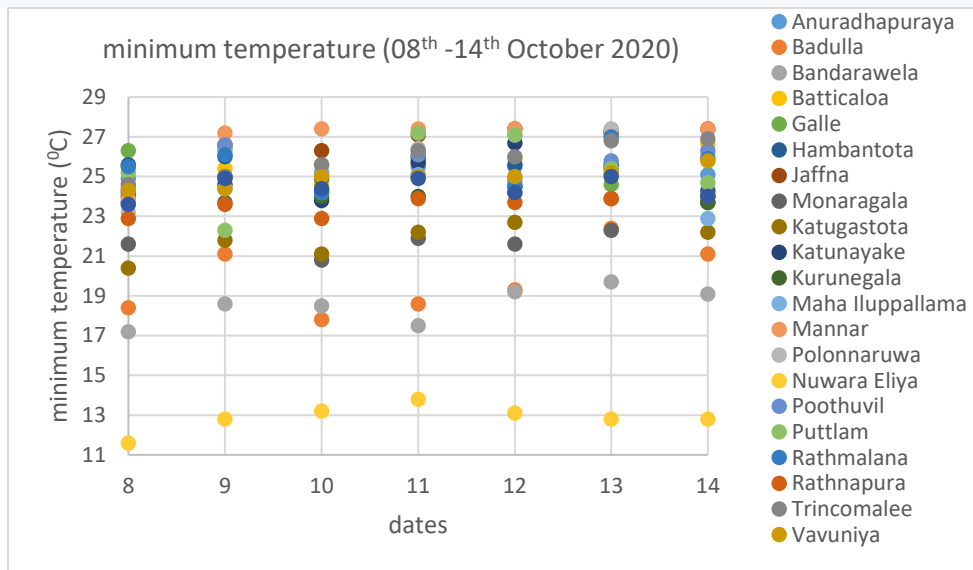


Fig 3.c: minimum temperature

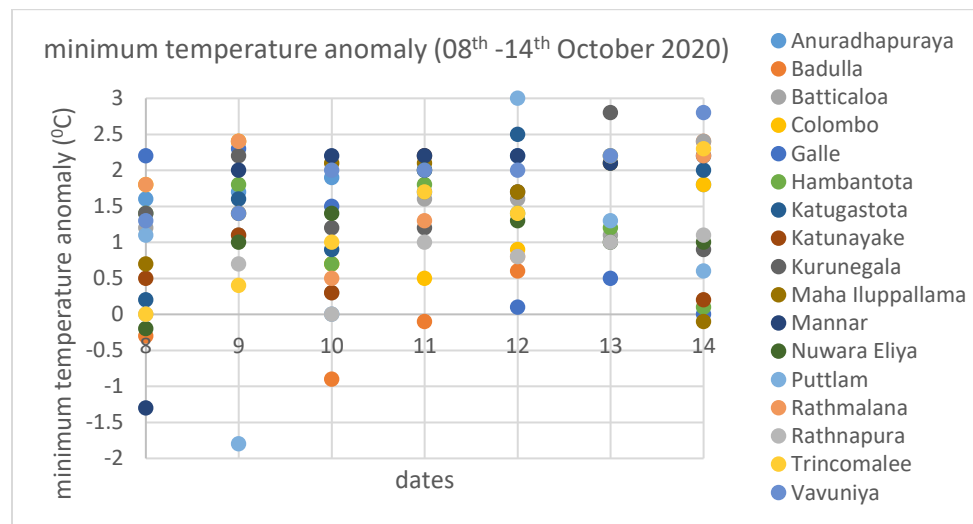


Fig 3.d: anomaly of minimum temperature

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

Winds

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

Upper winds at 850hPa:

Light or light to moderate south westerly winds were prevailed till 09th. Moderate to fresh southwesterly winds were prevailed over the Island 10th onwards. And east-west oriented trough axis was existing around 15N during this week.

Westerly weekly average observed winds were prevailed over the island (Figure 4.a) at 850hpa during this week. West-northwesterly climatological (Figure 4.b) wind pattern is prevailed over the Island. Westerly and similar moist wind anomaly (Figure 4.c) was prevailed over the Island at 850hpa during this week.

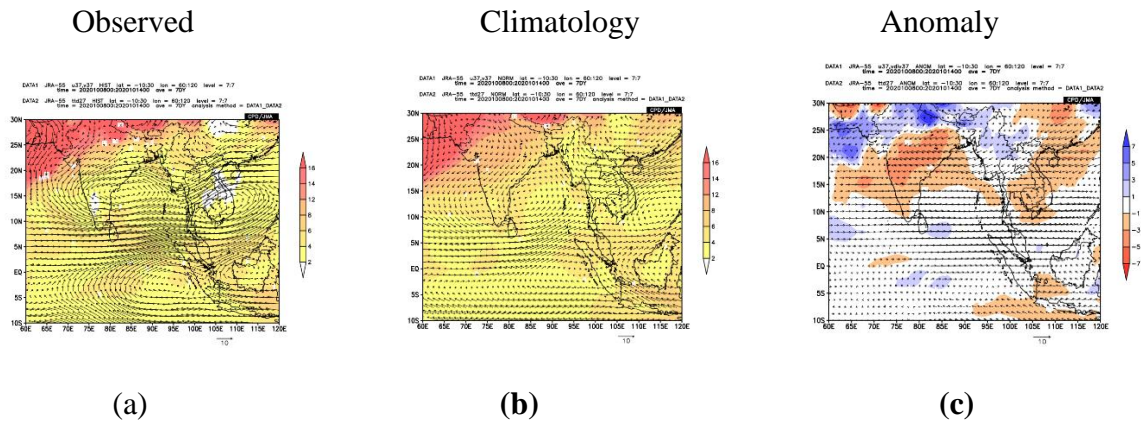


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Light, northerly to northwesterly winds were prevailed over the country till 10th and winds were changed to moderate to fresh, westerly later on.

Northwesterly to westerly, dry weekly averaged observed winds were (Figure 5.a) prevailed over the country at 700hpa during this week. Northwesterly to westerly climatological (Figure 5.b) winds are prevailed over the country as well. Westerly, dry wind anomaly (Figure 5.c) was prevailed over the northern half of the country and westerly, similar moist wind anomaly over elsewhere at 700hpa during this week.

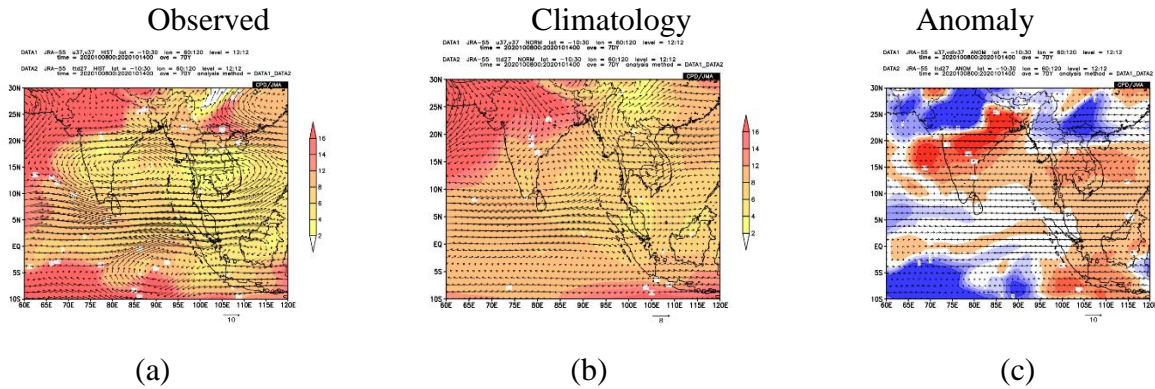


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Light to moderate, northeasterly winds were prevailed at 500hpa till 09th and it was changed to moderate to fresh, westerly 09th onwards.

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

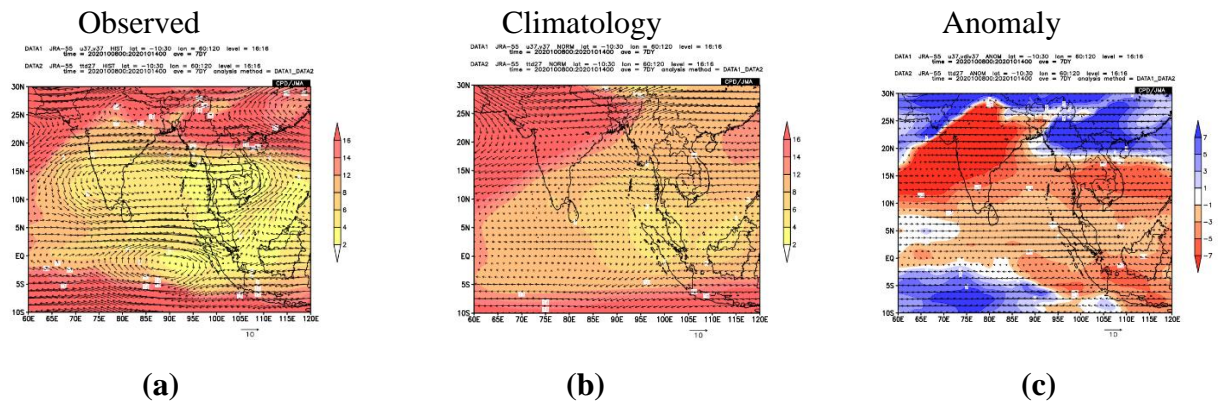


Figure 6: wind pattern with dewpoint departures at 500hpa

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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				