

Weekly Weather Summary

22-30 September 2020

1. Rainfall

Southwest monsoon conditions had been weakened over the country in some days during this period. Showers had been received in Southwestern parts with weekly total rainfall as scattered heavy and isolated very heavy rainfall during these days. Fairly heavy to heavy rainfall had been received in Eastern parts as well in Jaffna district. Further, Jaffna district had been reported moderate to fairly heavy rainfall on 28th and 29th. And Trincomalee district had been reported moderate to fairly heavy rainfall with isolated heavy rainfall on 24th and 28th. Some showers had been received at Uva province during the 24th to 26th too. Light to moderate or moderate showers had been reported at Kurunegala district on 22nd and 28th onwards.

The highest daily recorded rainfall 116.5mm, was reported at Palampoddia (at Trincomalee district) on 24th September. And highest weekly accumulated rainfall 167.1 mm, was reported at Padukka estate in Colombo district during the week. Kukuleganga hydro-catchment station had been received weekly accumulated rainfall as 104.0 mm. Except of 26th to 28th, light to moderate or moderate showers had been reported in hydro catchment areas.

Figure 2 represents total rainfall at main meteorological stations, catchment areas and reported highest total rainfall at some stations during the week.

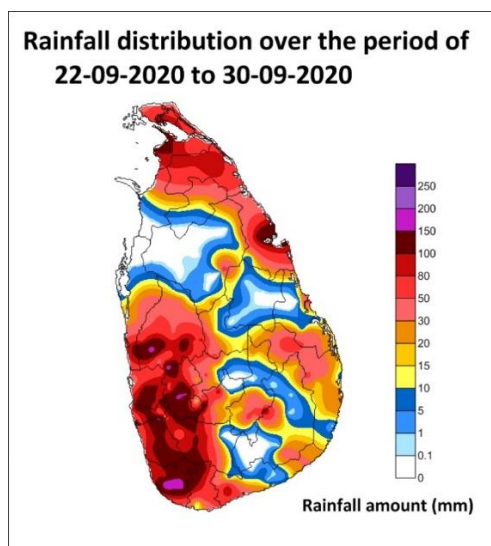


Figure 1: Total rainfall (mm) during the week

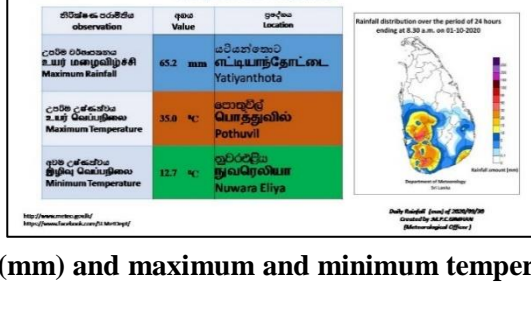
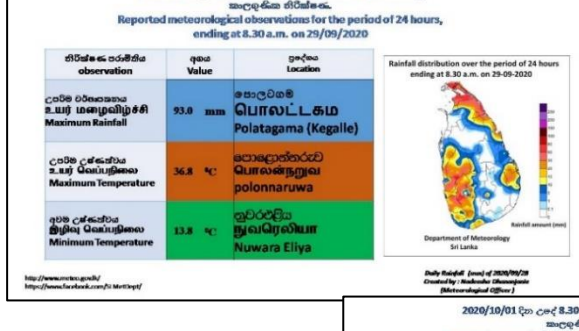
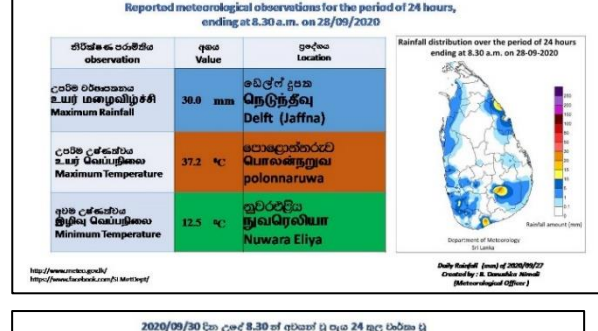
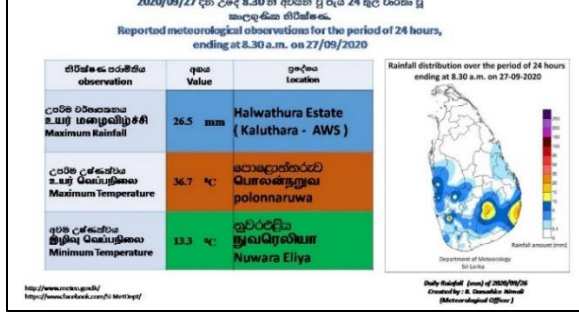
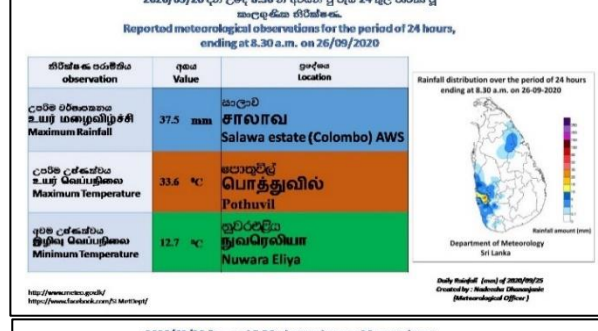
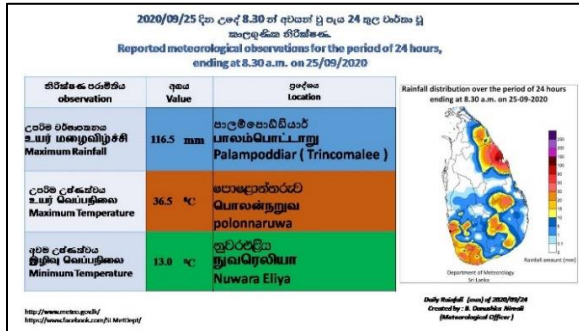
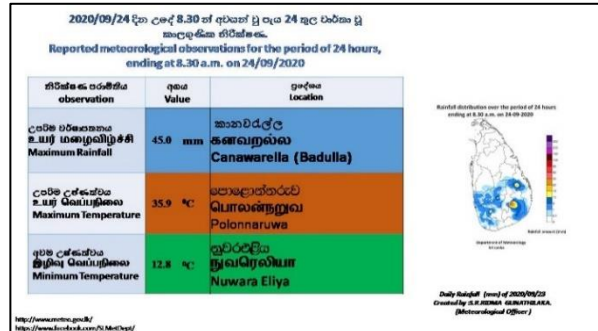
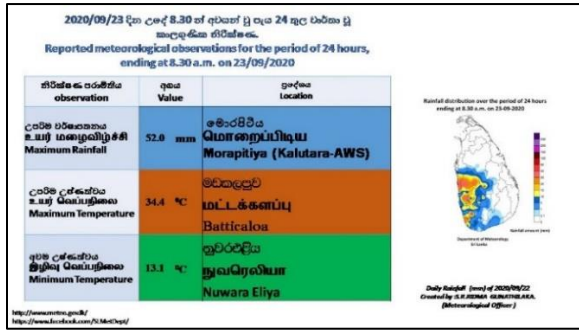


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ($^{\circ}$ C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	1.4
Badulla	50.2
Bandarawela	85.3
Batticaloa	16.0
Colombo	65.0
Galle	62.6
Hambanthota	29.6
Jaffna	112.8
Monaragala	44.5
Katugasthota	14.2
Katunayake	33.2
Kurunagala	77.2
Maha Illuppallama	5.5
Mannar	5.1
Polonnaruwa	2.7
Nuwara Eliya	10.5
Pothuvil	26.0
Puttalam	9.8
Rathmalana	51.8
Rathnapura	91.5
Trincomalee	143.0
Vavuniya	5.6
Mattla	8.2

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	54.5
Norton	74.9
Maussakele	49.9
Canyon	78.7
Lakshapana	97.3
Upper Kotmale	19.8
Kotmale	24.9
Victoriya	1.5
Randenigala	0.0
Rantambe	0.0
Bowatenna	9.1
Ukuwela	33.0
Samanala Wawa	0.0
Kukuleganaga	104.0
Maskeliya	39.4
Neboda	0.0
Station	Rainfall (mm)
Padukka Estate	167.1
Maha oya	146.6
Thalangaha Estate	139.1
Baddegama	136.6
Trincomalee Navy	133.9
Polatagama	130.0
Karagala	127.4
Palampoddiar	123.4
Canawarella	122.0
Watawala	121.4
Kamalasram	119.5
Atchuvvely	116.8
Vogan	114.7
Dummalasooriya	112.4
Chavakachcheri	110.9
Benthotawatta	106.4
Deniyaya	105.5
Wellawa	104.9
Hiniduma	103.0
Kuliyapitiya	100.9
Oddusuddan	100.2

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

2. Temperature

2.1 Maximum temperature

The highest day time (maximum) temperature, 37.2 °C was reported from Polonnaruwa on 27th September. Further, same station had been reported daily highest maximum temperature on 23rd, 24th, 26th and 28th (Figure 3.a). Except of 22nd, Potuvil had been reported daily highest maximum temperature in remaining days where it was from Batticaloa. Nuwara Eliya was reported its highest maximum temperature 20.9°C, on 27th.

All most all stations had been reported below normal maximum temperatures on 22nd and 25th. Weekly highest maximum temperature positive anomaly, 2.6°C reported at Vavuniya on 26th. And highest maximum temperature negative anomaly, 5.0°C reported at Maha Iluppallama on 25th.

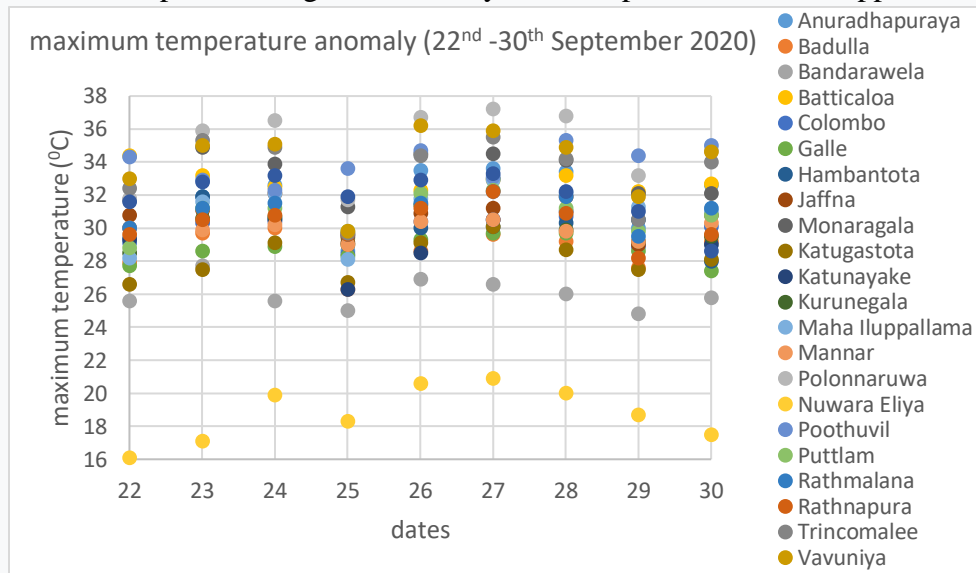


Fig 3.a: maximum temperature

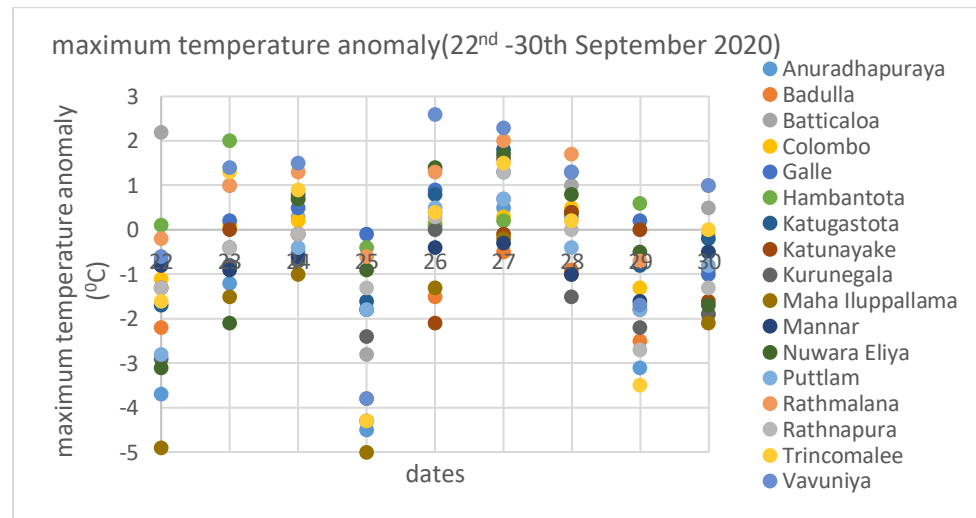


Fig 3.b: maximum temperature anomalv

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 12.5 °C was reported as usual from Nuwara-Eliya station on 28th September. The weekly highest minimum temperature 27.4 °C, was reported at Mannar on 29th (Fig 3.c) and it was more than 26.0°C throughout the week.

Highest minimum temperature positive anomaly 2.4 °C was reported at Rathmalana (Fig 3.d) on 24th. Highest minimum temperature negative anomaly 1.7 °C was reported at Galle on 22nd.

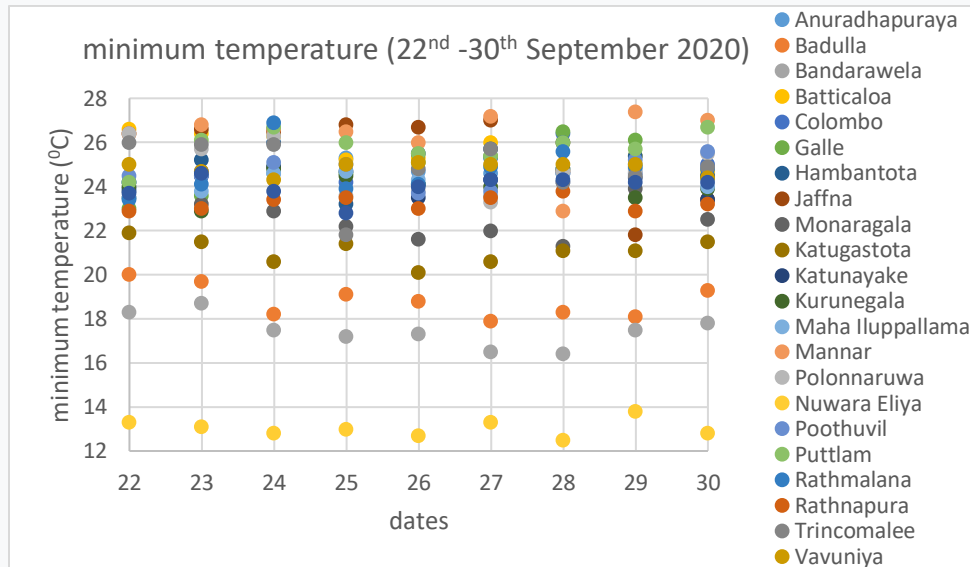


Fig 3.c: minimum temperature

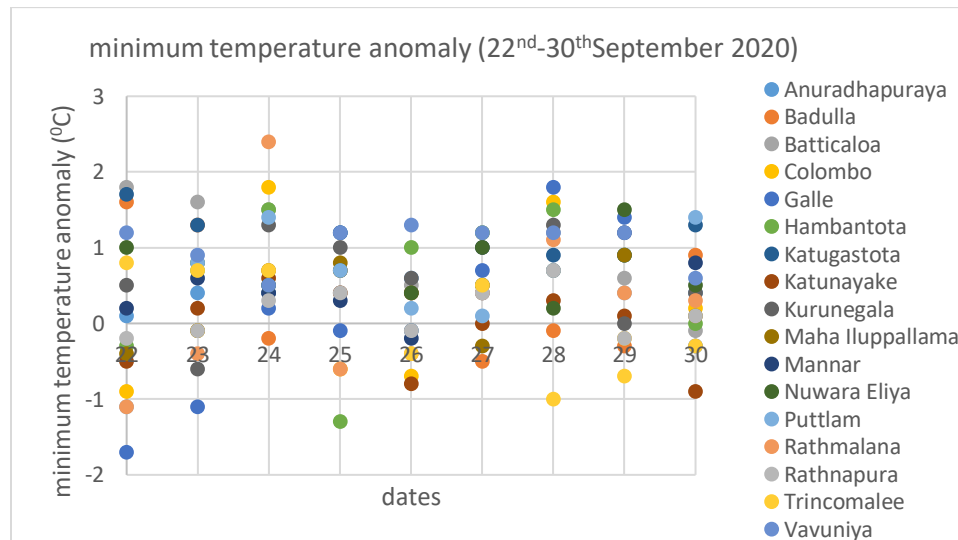


Fig 3.d: anomaly of minimum temperature

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

3. Wind

Light to moderate or moderate westerly to southwesterly surface winds were prevailed till 25th and direction was changed to Southwesterly or variable later on.

Upper winds at 850hPa:

Westerly strong to very strong winds were prevailed over Sri Lanka till 24th and then the speed was decreased.

Southwesterly moist weekly average winds were prevailed over the island (Figure 4.a) at 850hpa during this week. West-southwesterly winds are prevailed over the Island in climatological map (Figure 4.b). There was south-southwesterly (Figure 4.c) similar climatological conditions over the country at 850hpa during this week.

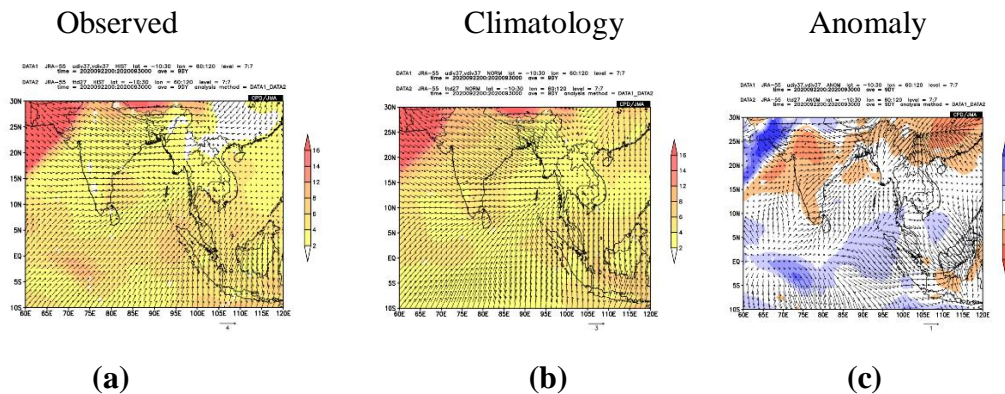


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Westerly strong winds (20-25kts) were prevailed over the country on 22nd and it was decreased to light during next two days. Then moderate southwesterly to westerly winds were prevailed till 29th and became strong on 30th.

Weekly averaged Observed winds were dry, westerly (Figure 5.a) and dry, northwesterly climatological (Figure 5.b) winds are prevailed at 700hPa level during this week. Westerly wind anomaly with similar climatological moist conditions were prevailed over the country at 700hpa.

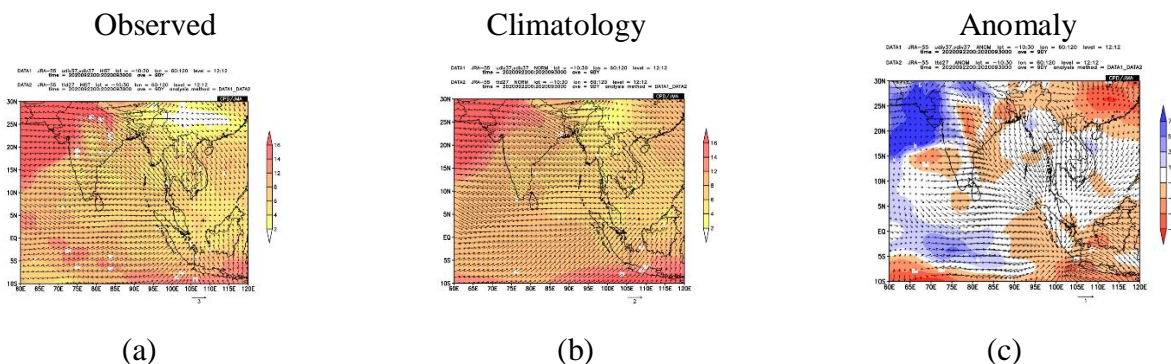


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

There was light or light to moderate southwesterly winds were prevailed over the country except of 23rd -25th period, which was moderate and easterly.

Weekly observed (Figure 6.a) winds were slightly dry and north-westerly over the island during this week. The climatological wind pattern is westerly and dry over the country (Figure 6.b). However, Northwesterly dry wind anomaly (Figure 6.c) was prevailed over the Island at 500hpa during this week.

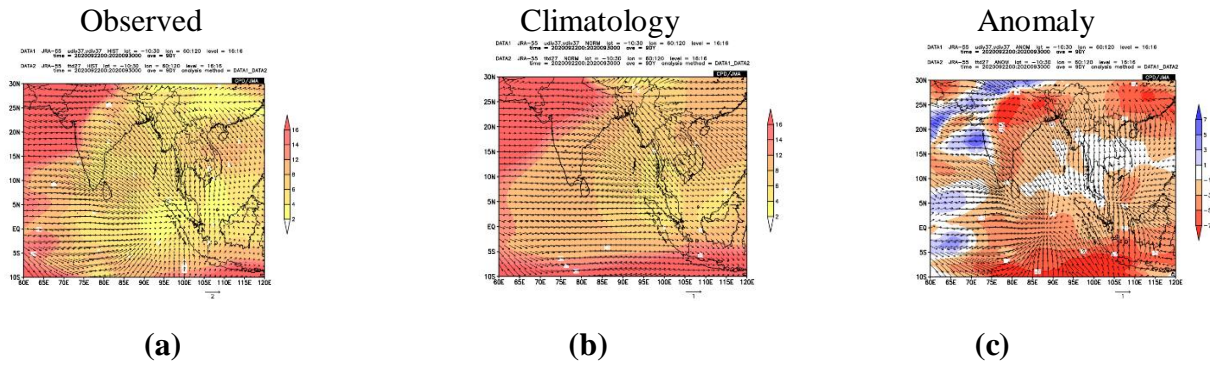


Figure 6: wind pattern with dewpoint departures at 500hpa