

# Weekly Weather Summery

## 08 -14 September 2020

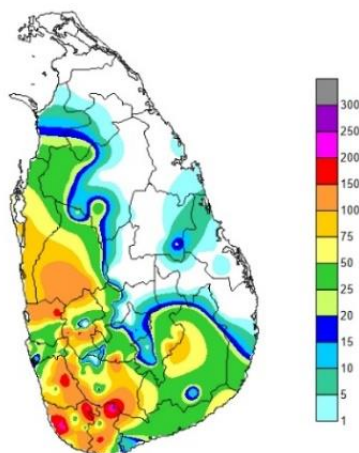
### 1. Rainfall

Southwest monsoon conditions were continued over the country during this week. However, heavy rainfall was reported from many rain gauges in Colombo and Gampaha districts and a few places in Puttalam districts on 08<sup>th</sup> and 09<sup>th</sup> September. Fairly heavy or moderate showers were reported at Kurunegala, Rathnapura and Kandy districts too. Fairly heavy or moderate showers were reported from Galle district on 08<sup>th</sup>. Further, light to moderate or moderate showers were reported at Galle district throughout the week. However, light or light to moderate showers were reported at NuwaraEliya district except of 09<sup>th</sup> and 10<sup>th</sup> which was moderate.

Fairly heavy or moderate showers were reported at hydro catchment areas in western slope of the central hills on 08<sup>th</sup> and 09<sup>th</sup> as well. However moderate or light to moderate showers were continued in remaining days of the week at some stations of hydro catchment areas.

The highest daily recorded rainfall 150.8mm, was reported at Colombo main meteorological center on 08<sup>th</sup> September. And highest weekly accumulated rainfall 217.2 mm, was reported at Angoda in Colombo district during the week. Norton hydro-catchment station had been received weekly accumulated rainfall as 196.2mm. Dry weather was experienced in dry zone during this week as well.

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**

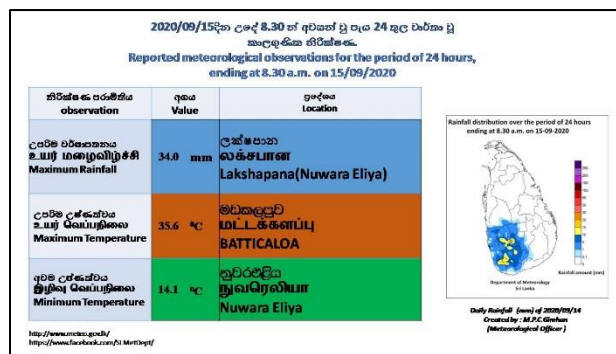
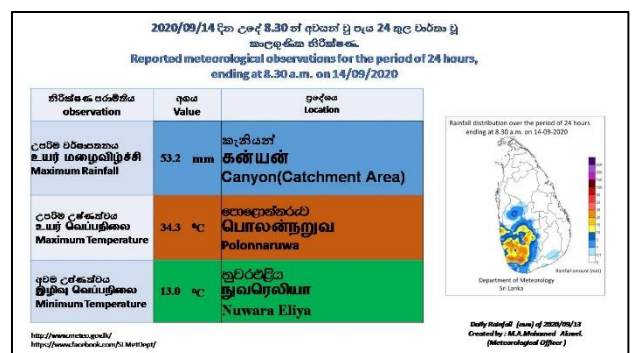
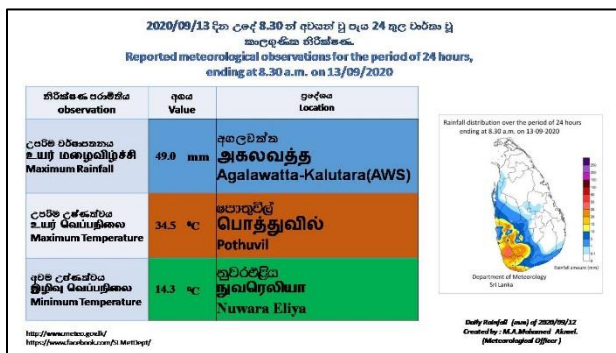
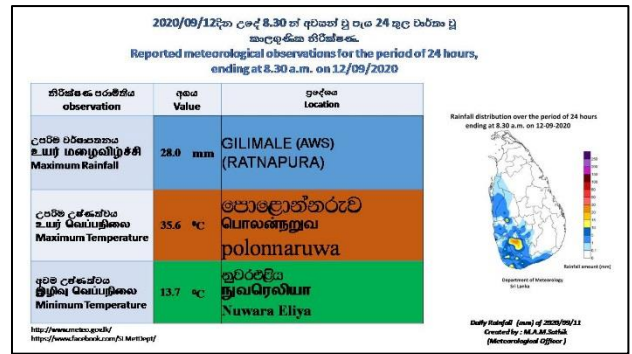
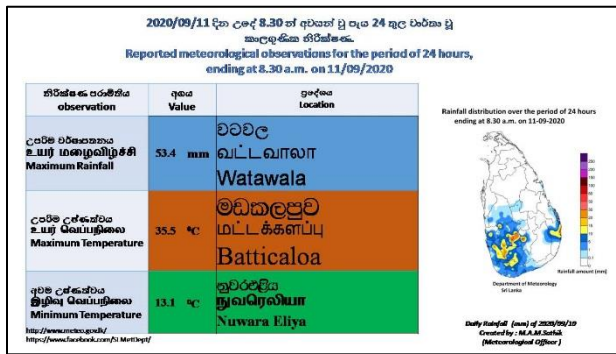
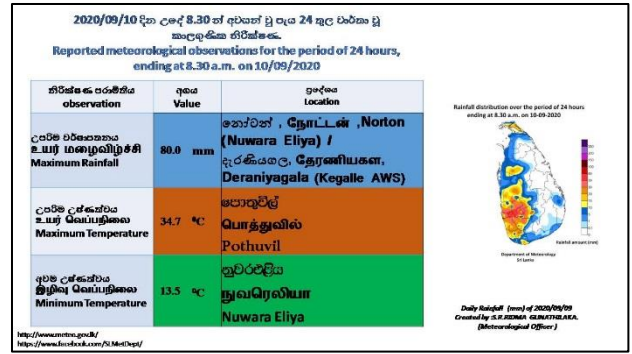
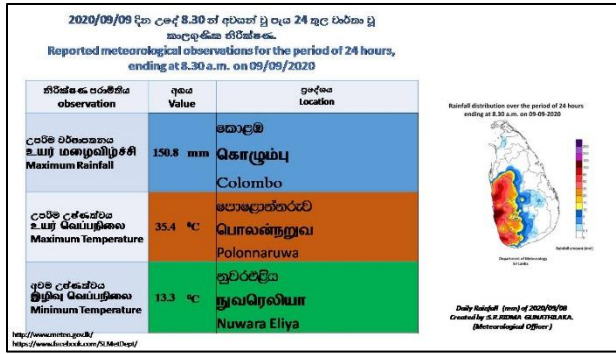


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ( $^{\circ}$ C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	19.7
Badulla	1.1
Bandarawela	1.8
Batticaloa	0.0
Colombo	215.9
Galle	84.9
Hambanthota	39.0
Jaffna	17.8
Monaragala	0.8
Katugasthota	36.2
Katunayake	130.6
Kurunagala	58.6
MahaIlluppallama	16.9
Mannar	1.2
Polonnaruwa	0.2
Nuwara Eliya	34.3
Pothuvil	0.0
Puttalam	4.5
Rathmalana	193.8
Rathnapura	105.8
Trincomalee	0.0
Vavuniya	0.0
Mattala	5.3

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	156.5
Norton	196.2
Maussakele	139.0
Canyon	189.4
Lakshapana	178.0
Upper Kotmale	74.2
Kotmale	87.3
Victoriya	2.8
Randenigala	0.0
Rantambe	0.0
Bowatenna	0.0
Ukuwela	24.2
Samanala Wawa	13.0
Kukuleganaga	162.0
Maskeliya	88.1

Rain Gauge Stations	
Station	Rainfall (mm)
Moralioya	174.0
Deraniyagala Divisional Secretariate	174.0
Poddiwela Farm	180.2
Padukka Estate	183.6
Karagala	185.0
W.K.K. Engineering, Hanwella	186.5
Ports Authority	186.9
Erepola, Eheliyagoda	188.5
Colombo Fort	189.2
Keeragala, Kuruvita	199.5
Watawala	205.9
Polatagama	211.0
Dehiwala	211.3
Salawa Estate	213.5
Angoda	217.2

**Tables: 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, 35.6 °C was reported from Polonnaruwa on 11<sup>th</sup> September. Further, same station had been reported daily highest maximum temperature on 08<sup>th</sup> and 13<sup>th</sup> (Figure 3.a). Potuvil and Batticaloa had been reported daily highest maximum temperature in remaining days. Nuwara Eliya was reported its highest maximum temperature 18.5°C, on 08<sup>th</sup>. Above normal maximum temperatures had been reported at Anuradhapura, Badulla, Maha Iluppallama, Mannar, Nuwara Eliya and Vavuniya throughout the week. And below normal maximum temperatures were reported at many stations on 09<sup>th</sup>, 12<sup>th</sup> and 14<sup>th</sup>. Weekly highest maximum temperature positive anomaly, 3.4°C reported at Batticaloa on 14<sup>th</sup>. And highest maximum temperature negative anomaly, 4.3°C reported at Maha Iluppallama on 08<sup>th</sup>.

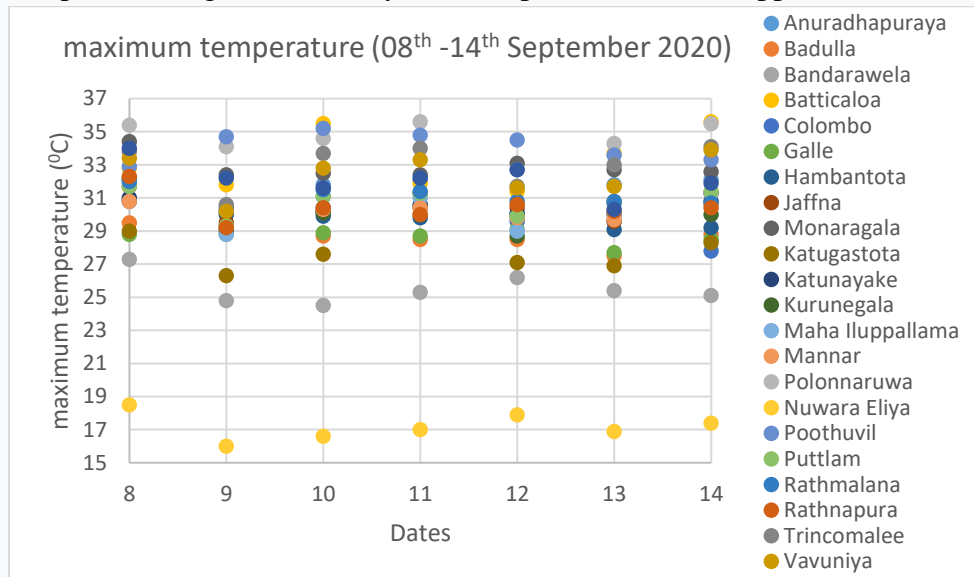


Fig 3.a: maximum temperature

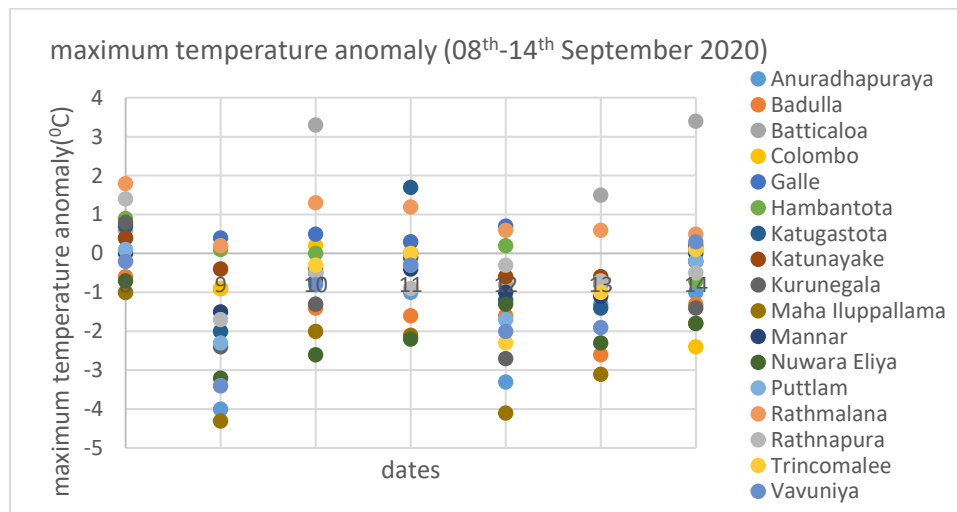


Fig 3.b: maximum temperature anomalv

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

## 2.2 Minimum temperature

The weekly lowest minimum temperature, 13.1 °C was reported as usual from Nuwara-Eliya station on 11<sup>th</sup> September. The weekly highest minimum temperature 27.4 °C, was reported at Mannar on 08<sup>th</sup> (Fig 3.c) and it was more than 27.0°C throughout the week.

Highest minimum temperature positive anomaly 2.6 °C was reported at Rathmalana (Fig 3.d) on 12<sup>th</sup>. Highest minimum temperature negative anomaly 1.5 °C was reported at Galle on 13<sup>th</sup>. Vavuniya, Trincomalee, Nuwara Eliya, Badulla, Batticaloa and Katugastota had been reported above normal minimum temperature throughout this week.

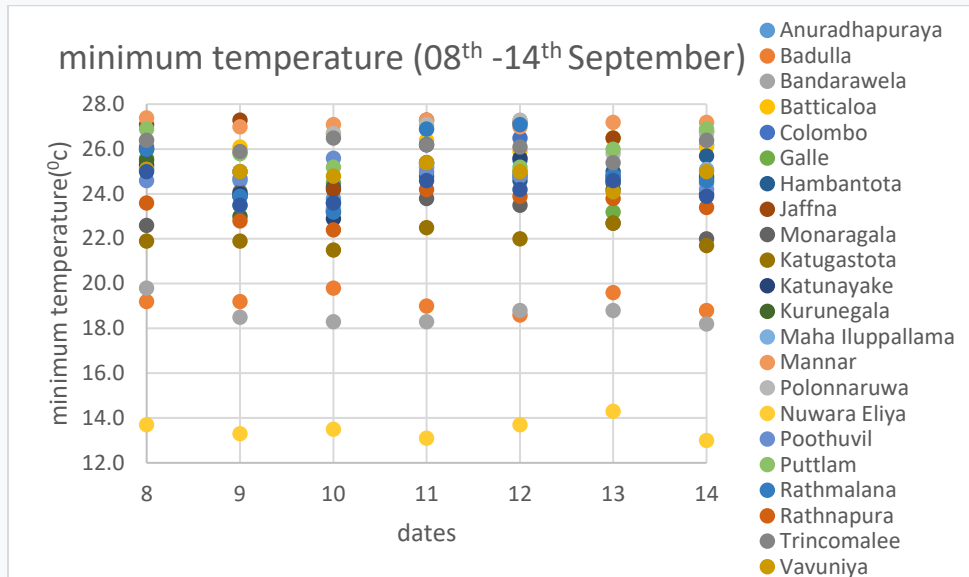


Fig 3.c: minimum temperature

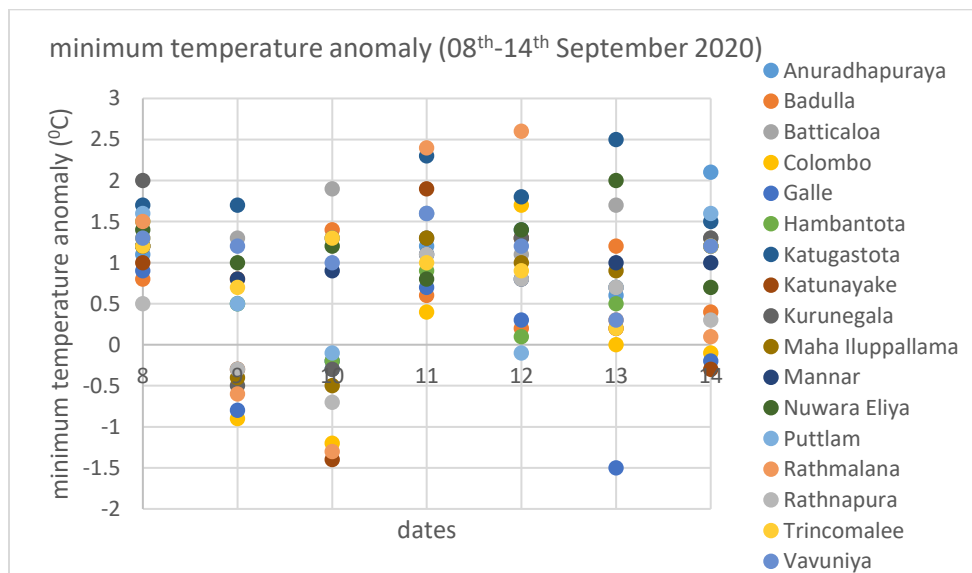


Fig 3.d: anomaly of minimum temperature

**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 during this week. Southwesterly surface winds had been converged near southwestern sea area on 08<sup>th</sup>. Gradually, it was westerly and convergences were prevailed near western sea area on 14<sup>th</sup> as well.

#### Upper winds at 850hPa:

Northwesterly strong winds over Sri Lanka On 08<sup>th</sup> and it was changed to strong, southwesterly on 09<sup>th</sup>. Strong Southwesterly to westerly wind flow was changed to west-Northwesterly on 14<sup>th</sup>.

Westerly moist weekly average winds were prevailed over the island (Figure 4.a) at 850hpa during this week. Northwesterly winds are prevailed over the Island in climatological map (Figure 4.b). There was southwesterly dry wind anomaly (Figure 4.c) over northern part of country and Southwesterly similar climatological conditions over elsewhere at 850hpa during this week.

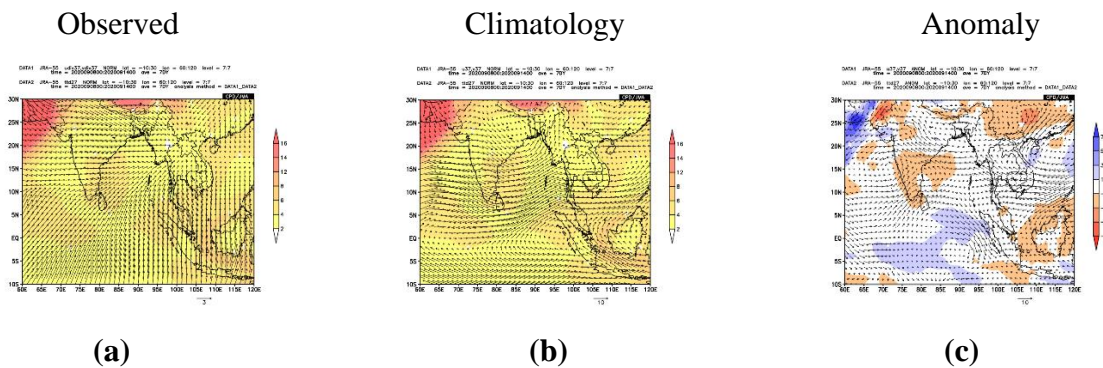


Figure 4: wind pattern with dewpoint departures at 850hpa

#### Upper winds at 700hPa:

Northwesterly winds (10-20kts) were changed as westerly (10-25kts) 09<sup>th</sup> onwards. Wind convergence were prevailed near western sea area too. Then it was changed northwesterly on 14<sup>th</sup>.

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

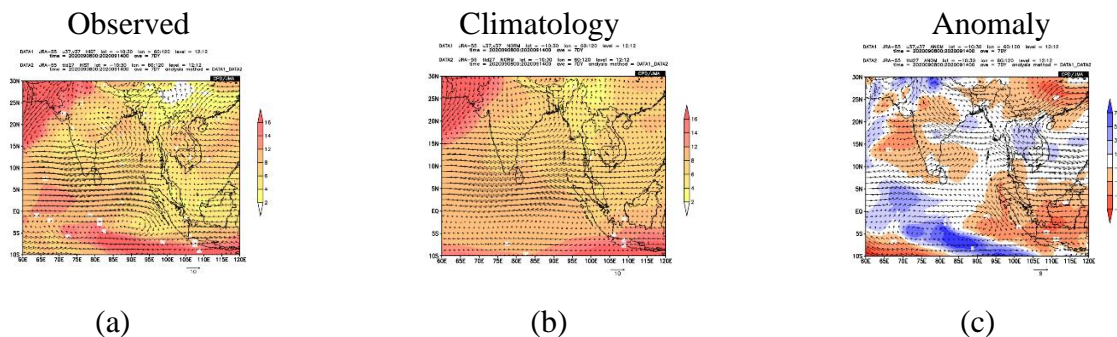
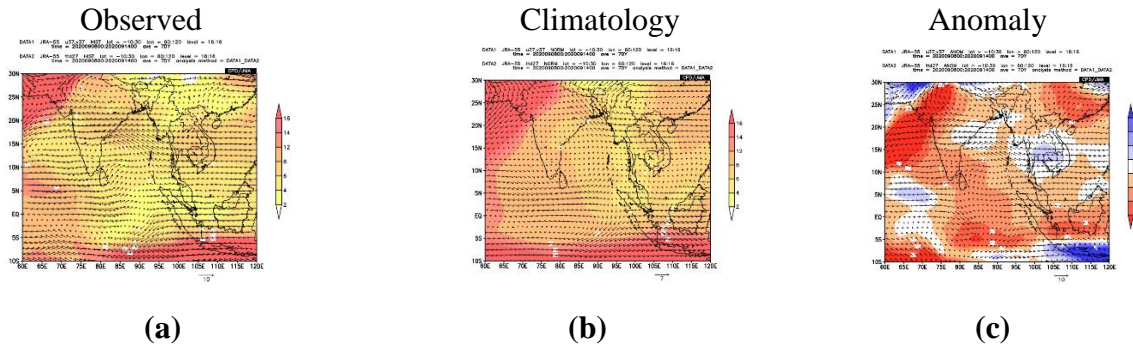


Figure 5: wind pattern with dewpoint departures at 700hpa

### Upper winds at 500hPa:

Light variable winds were prevailed over the Sri Lanka and mild circulations were prevailed western part on 08<sup>th</sup> and 09<sup>th</sup>. Light to moderate southwesterly to southerly winds over the country another two days. It was changed to Northwesterly 13<sup>th</sup> onwards.

Weekly observed (Figure 6.a) winds were slightly dry, westerly over the island during this week. The climatological wind pattern is light, northwesterly and dry over the country (Figure 6.b). However, Westerly to Southerly 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**