Weekly Weather Summery

15-21 September 2020

1. Rainfall

Southwest monsoon conditions were extended to this week since early September. Tropical storm "Noul" had formed in the Philippines sea on 14th and it was moved Northwest ward. Then, it had landfall to Vietnam on 19th and later on it moved towards Thailand. This was caused to enhanced monsoon wind flow over the Island during this week. However, rainy weather was enhanced in southwest quarter on 18th and 20th. Hambantota district had been received some showers during this week as well. Showers were continued throughout the week in Kandy district while moderate showers were reported during the 18th to 20th. Kurunegala district had been received showers 18th onwards. Light to moderate or moderate showers had been received at Gampaha district. Compared to the Colombo and Galle districts Gampaha district had been reported less rainfall amount during this week.

Showers were reported from hydro catchment areas throughout the week. Hydro catchment areas had been reported heavy showers and fairly heavy showers on 18th and 20th respectively. Norton hydro-catchment station had been received highest weekly accumulated rainfall as 318.2mm.

The highest daily recorded rainfall 151.5mm, was reported at Alston estate (in Nuwara Elya district) on 18th September. 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.

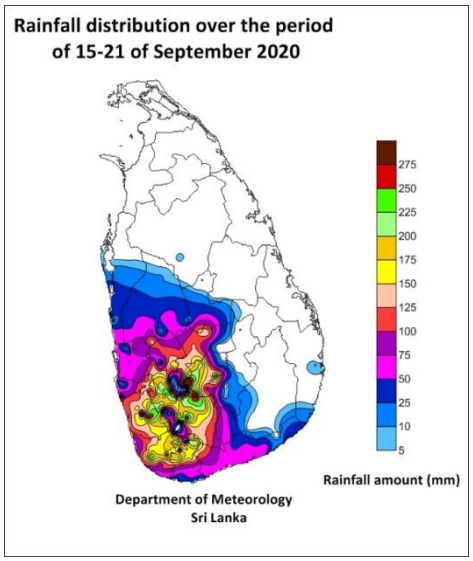
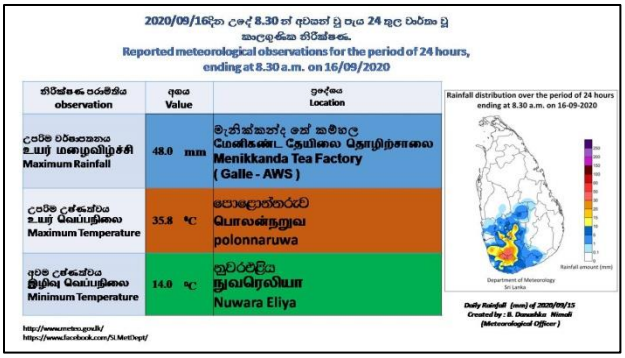
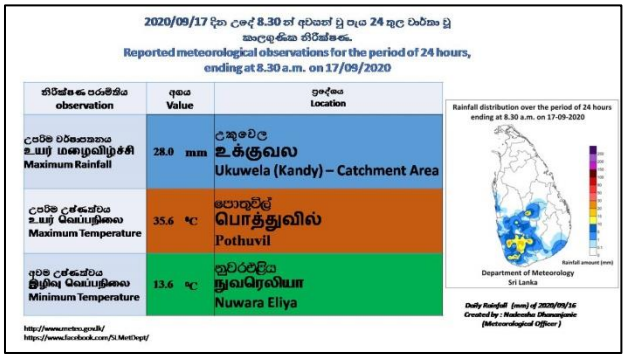
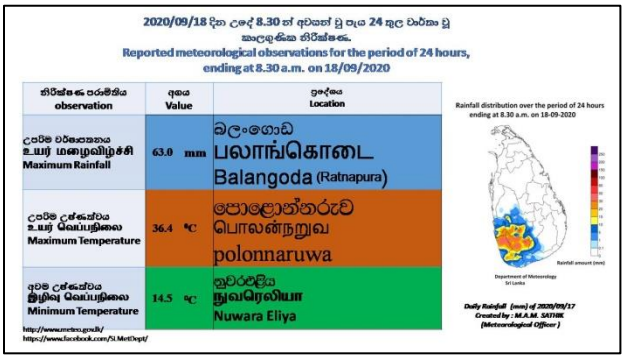
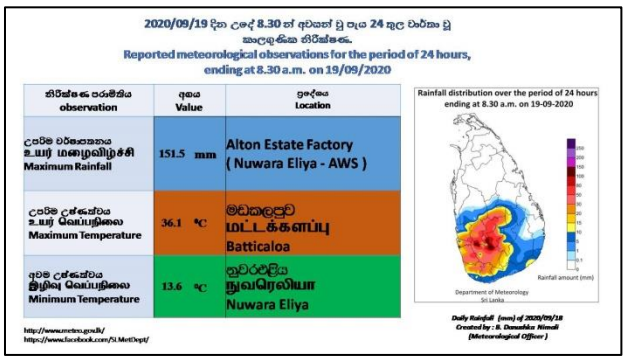


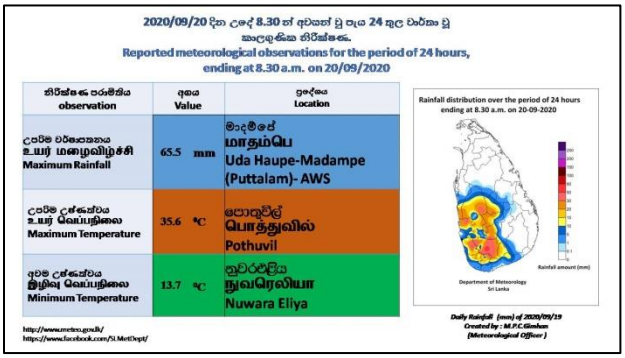
Figure 1: Total rainfall (mm) during the week

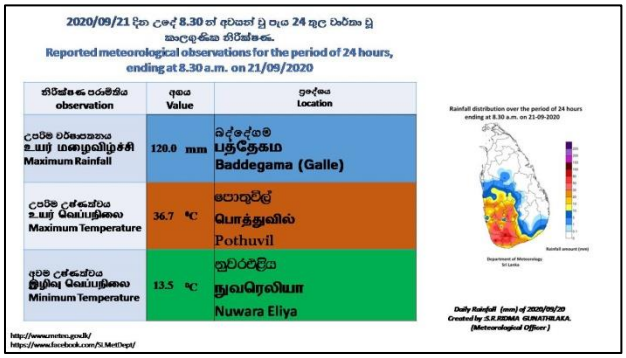












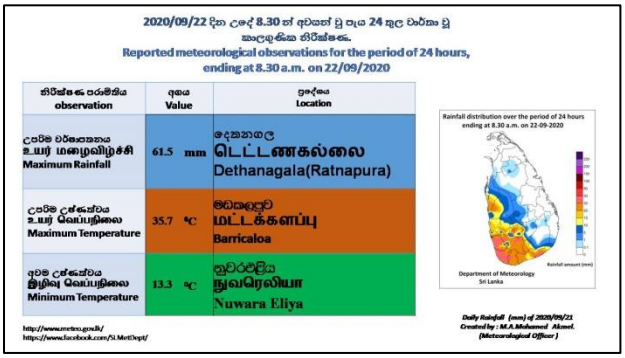


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (0C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.2
Badulla	8.5
Bandarawela	18.3
Batticaloa	0
Colombo	59.1
Galle	56.1
Hambanthota	47.9
Jaffna	0
Monaragala	3
Katugasthota	110.9
Katunayake	74.8
Kurunagala	68.1
Maha Illuppallama	6.8
Mannar	0
Polonnaruwa	1.3
Nuwara Eliya	121
Pothuvil	0
Puttalam	10.1
Rathmalana	92.9
Rathnapura	191.5
Trincomalee	0
Vavuniya	0.5
Mattla	56.8

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	270.8
Norton	318.2
Maussakele	265.2
Canyon	287.8
Lakshapana	293.2
Upper Kotmale	194.8
Kotmale	138.9
Victoriya	16.8
Randenigala	5.8
Rantambe	5.3
Bowatenna	30.8
Ukuwela	134.3
Samanala Wawa	54.5
Kukuleganaga	199
Maskeliya	225.1

Other Rainfall Stations	
Station	Rainfall (mm)
Baddegama	259.9
Guruluwana	249.2
Kotagala Rosita	248.1
Udaradella	246.6
Detanagala	229.4
Deniyaya	216.5
Niwithigala Tea	214.2

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, 36.7 ^{0}C was reported from Potuvil on 20th September. Further, same station had been reported daily highest maximum temperature on 16th and 19th (Figure 3.a). Polonnaruwa and Batticaloa had been reported daily highest maximum temperature in remaining days. Nuwara Eliya was reported its highest maximum temperature 19.2^{0}C, on 17th.

Above normal maximum temperatures had been reported in almost all stations on first three days of this week (Figure 3.b). Weekly highest maximum temperature positive anomaly, 4.4^{0}C reported at Batticaloa on 20th. And highest maximum temperature negative anomaly, 4.3^{0}C reported at Rathnapura on 18th.

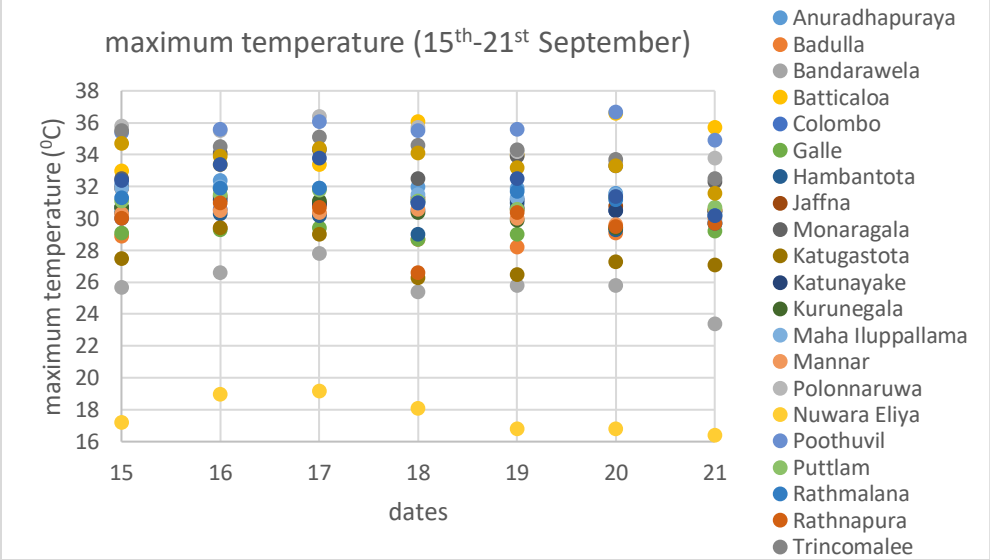


Fig 3.a: maximum temperature

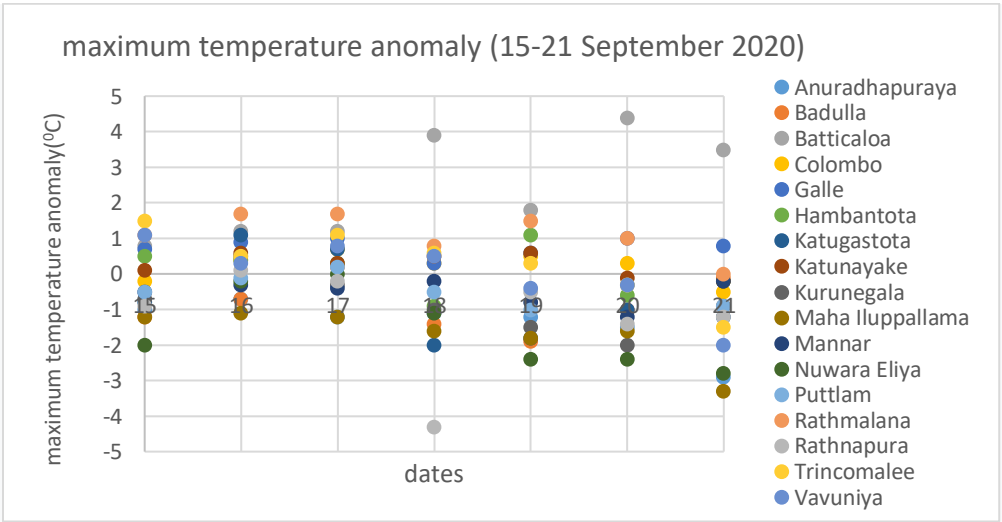


Fig 3.b: maximum temperature anomaly

Figure 3. Maximum temperatures (^{0}C) and anomalies (^{0}C) during the week

2.2 Minimum temperature

The weekly lowest minimum temperature, 13.6 ^{0}C was reported as usual from Nuwara-Eliya station on 17th as well as 19th September. The weekly highest minimum temperature 27.6 ^{0}C, was reported at Jaffna on 20th (Fig 3.c).

Highest minimum temperature positive anomaly 2.8 ^{0}C was reported at Katugastota (Fig 3.d) on 18th. Highest minimum temperature negative anomaly 2.0 ^{0}C was reported at Trincomalee on 17th. Except of that above normal minimum temperatures were reported in all most all stations throughout the week.

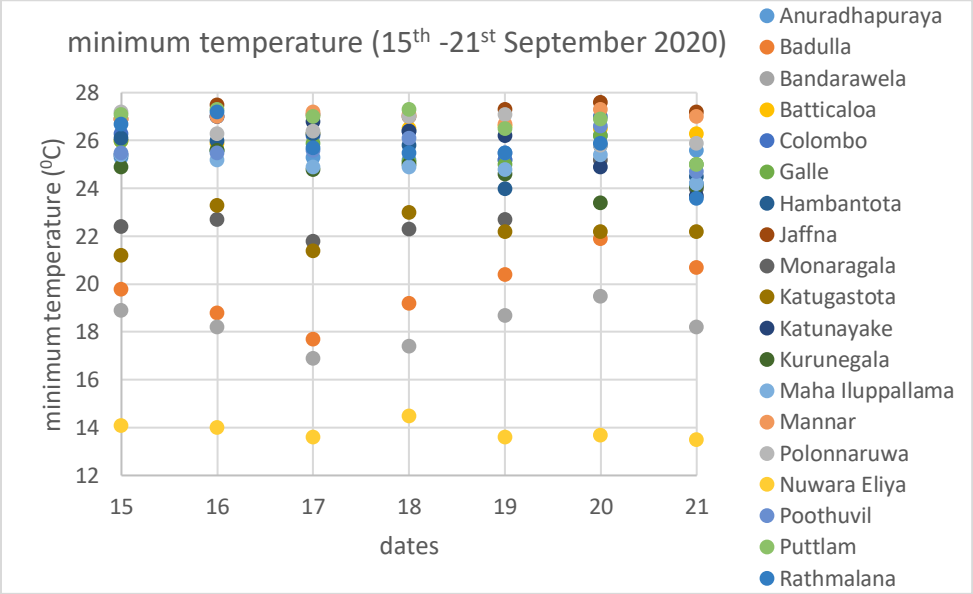


Fig 3.c: minimum temperature

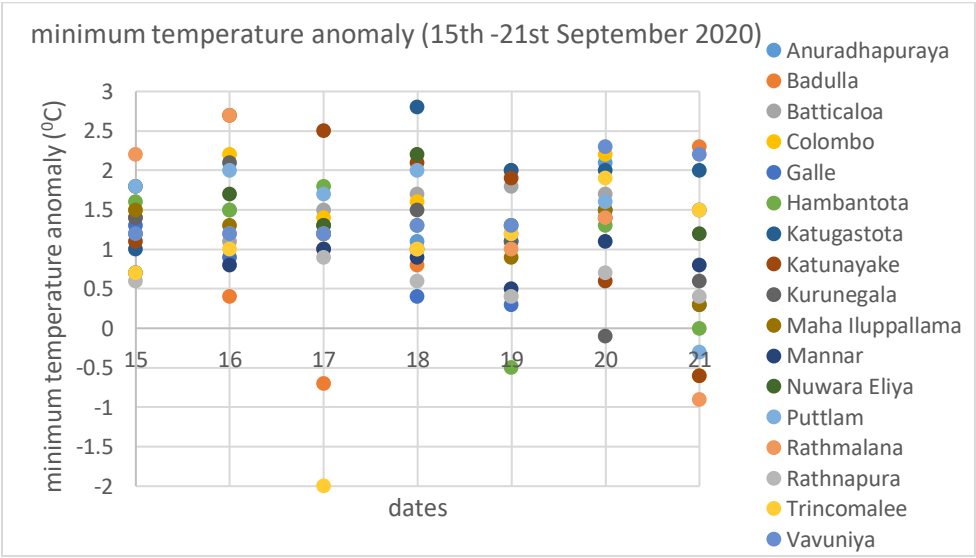


Fig 3.d: anomaly of minimum temperature

Figure 3. Minimum temperatures (^{0}C) and anomalies (^{0}C) during the week

3. Wind

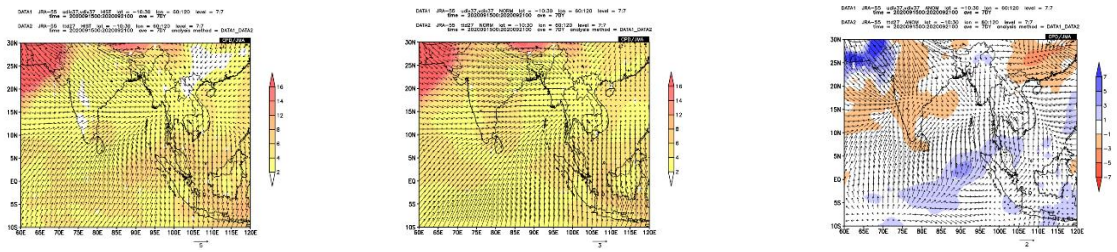
Light to moderate or moderate westerly to southwesterly surface winds were prevailed during this week.

Upper Air winds at 850hPa:

Westerly to southwesterly strong winds over Sri Lanka till 18th and it was changed to very strong 19th onwards.

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 and slightly dry wind anomaly (Figure 4.c) over the southern part of country and south-southwesterly similar climatological conditions over elsewhere at 850hpa during this week.

Observed Climatology Anomaly



(a) (b) (c)

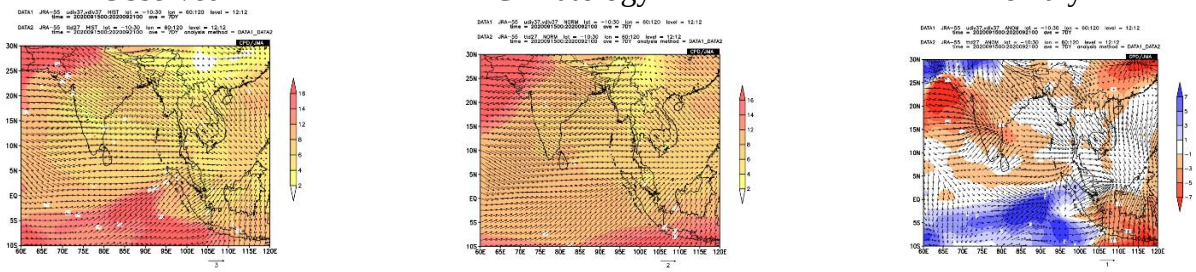
Figure 4: wind pattern with dewpoint departures at 850hpa

Upper Air winds at 700hPa:

Strong West-northwesterly winds (20-30kts) were prevailed over the country till 19th and it was changed as very strong westerly (30-40kts) 20th onwards.

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. Southwesterly wind anomaly with similar climatological moist conditions were prevailed over the country at 700hpa.

Observed Climatology Anomaly



(a) (b) (c)

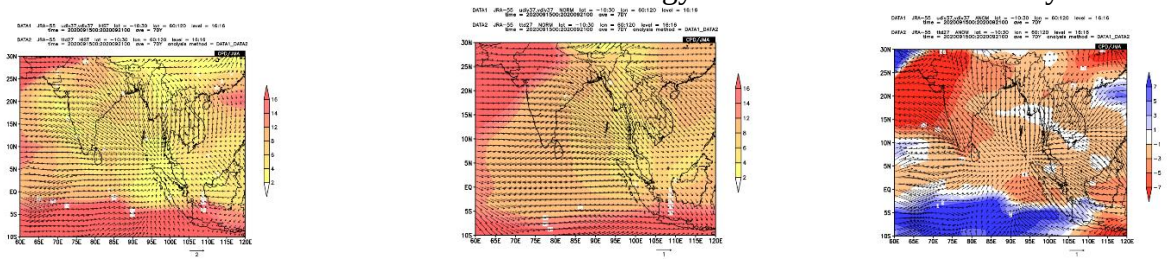
Figure 5: wind pattern with dewpoint departures at 700hpa

Upper Air winds at 500hPa:

Light to moderate southwesterly winds were prevailed over the Sri Lanka on 15th , 16th and it was changed as westerly (15-20kts) 17th onwards.

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

Observed Climatology Anomaly



(a) **(b)** **(c)**

Figure 6: wind pattern with dewpoint departures at 500hpa