

Weekly Weather Summary

15 -21 August 2020

1. Rainfall

Weak southwest monsoon conditions were prevailed over the country throughout the week. Except of isolated light showers, considerable rainfall had not been reported in southwestern parts during this week. However, afternoon thunder showers were reported on 17th and 19th where it was from Uva province/Ampara district and Mulativu/Anuradhapura districts respectively. Dry weather conditions were prevailed most parts of the Island during this week (Fig 1).

Daily highest rainfall 25.0mm, had been reported Welioya (Mulativu district AWS station) on 19th.

Isolated light showers were reported at Hydro-catchment areas on 16th and 17th. Highest weekly total rainfall 13.8mm, had been received at Nedunkerni (Vavuniya district).

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

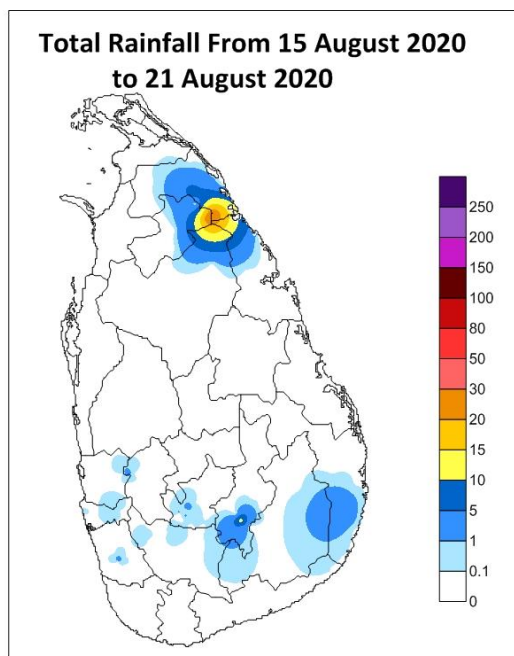


Figure 1: Total rainfall (mm) during the week

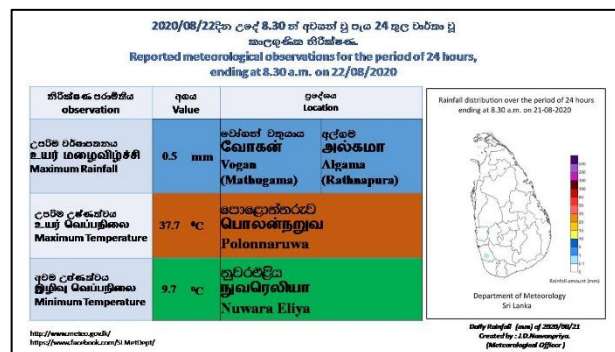
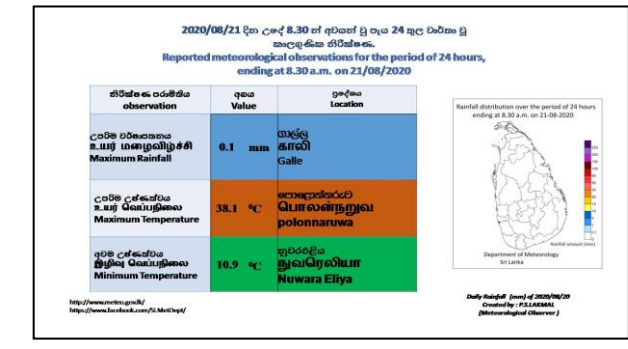
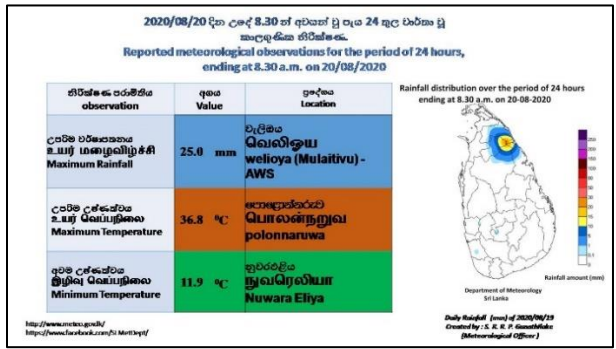
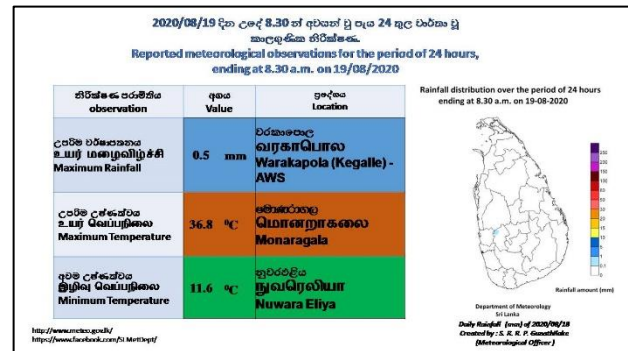
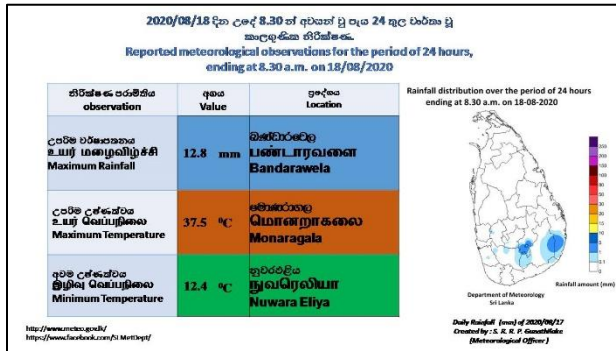
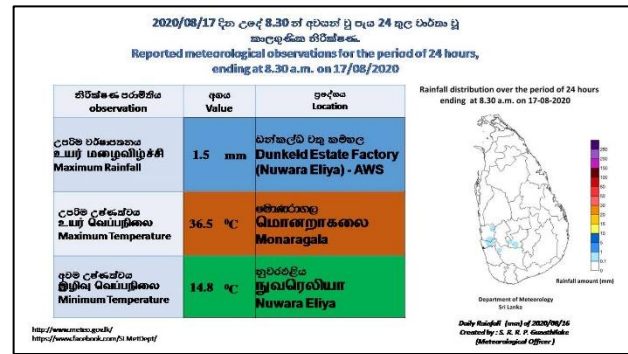
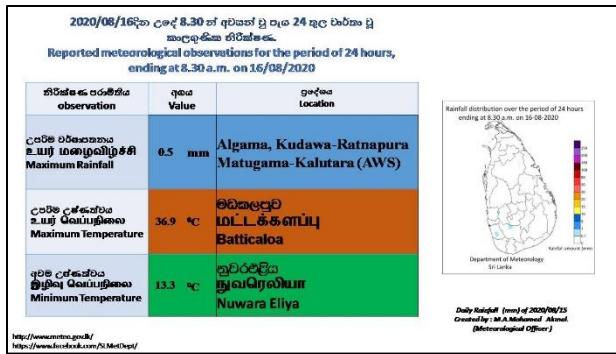


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (0C) during the week.

| Main Meteorological Stations | Rainfall (mm) |
|------------------------------|---------------|
| Anuradhapura | 0 |
| Badulla | 0 |
| Bandarawela | 12.8 |
| Batticaloa | 0 |
| Colombo | 0.4 |
| Galle | 0.1 |
| Hambanthota | 0 |
| Jaffna | 0 |
| Monaragala | 0 |
| Katugasthota | 0 |
| Katunayake | 0 |
| Kurunagala | 0 |
| Maha Illuppallama | 0 |
| Mannar | 0 |
| Polonnaruwa | 0 |
| Nuwara Eliya | 0 |
| Pothuvil | 0 |
| Puttalam | 0 |
| Rathmalana | 0 |
| Rathnapura | 0 |
| Trincomalee | 0 |
| Vavuniya | 0 |
| Mattla | 0 |

| Hydro-Catchment Areas | |
|-----------------------|---------------|
| Station | Rainfall (mm) |
| Castlereigh | 0 |
| Norton | 0.6 |
| Maussakele | 0 |
| Canyon | 1.5 |
| Lakshapana | 0.1 |
| Upper Kotmale | 0 |
| Kotmale | 0 |
| Victoriya | 0 |
| Randenigala | 0 |
| Rantambe | 0 |
| Bowatenna | 0 |
| Ukuwela | 0 |
| Samanala Wawa | 0 |
| Kukuleganaga | 0 |
| Maskeliya | 0 |

| Other Rainfall Stations | |
|-------------------------|---------------|
| Station | Rainfall (mm) |
| Nedunkerni | 13.8 |
| Oddusuddan | 6.0 |
| Kahagolla Estate | 5.0 |
| Lahugala Tank | 4.3 |
| Omanthai | 2.1 |
| Watawala | 0.4 |
| Polatagama | 0.1 |

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, 38.1 °C was reported from Polonnaruwa main meteorological station on 20th August and further same station had been reported it on 21st (Figure 3.a). Except of the above-mentioned dates and 15th, daily highest maximum temperature was reported at Monaragala. Nuwara Eliya was reported its highest maximum temperature 23.7°C, on 21st. Above normal maximum temperatures were reported in many stations 17th onwards (fig 3.b). Weekly maximum temperature highest positive anomaly, 5.0°C was reported at NuwaraEliya on 21st. Above normal maximum temperatures were reported throughout the week at Colombo, Galle, Kurunegala, Nuwara-Eliya, Rathmalana, Trincomalee and Rathnapura meteorological stations.

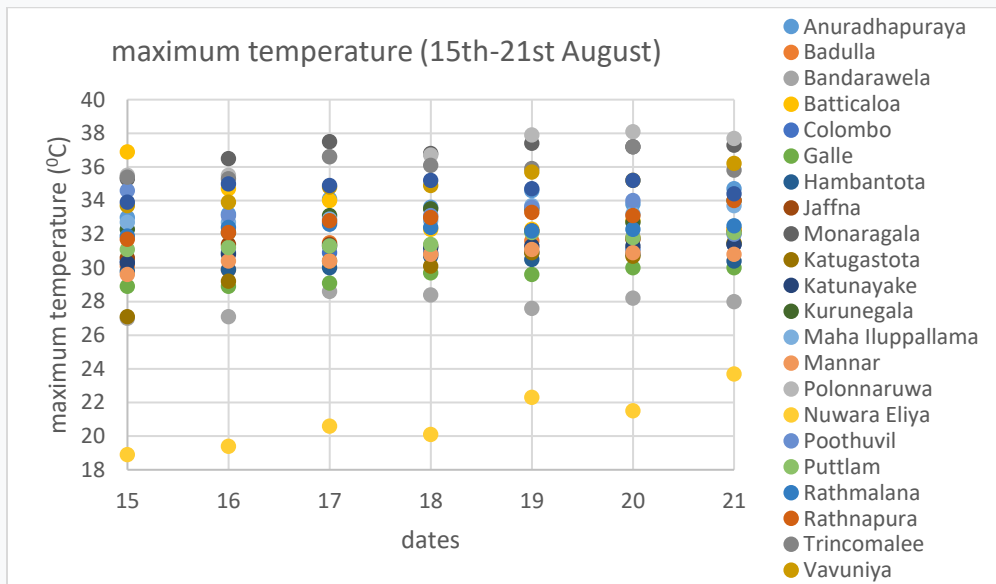


Fig 3.a: maximum temperature

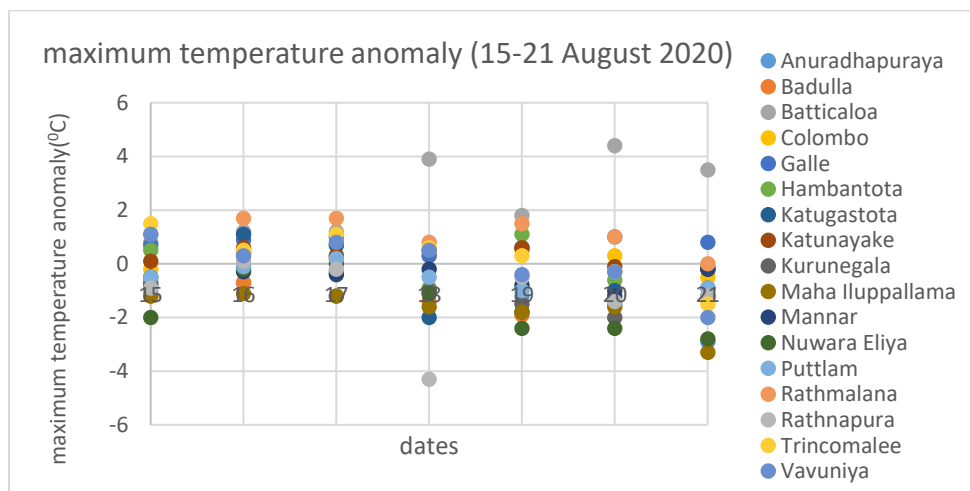


Fig 3.b: maximum temperature anomaly

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

2.1 Minimum temperature

The lowest minimum temperature, 10.9 °C was reported as usual from Nuwara-Eliya station on 21st August. The highest minimum temperature 28.7°C, was reported at Rathmalana on 20th and 21st (Fig 3.c) and minimum temperature highest positive anomaly, 2.9°C was reported at the same station and same dates as well (Fig 3.d). Except of 20th, Badulla had been reported below normal minimum temperatures throughout the week.

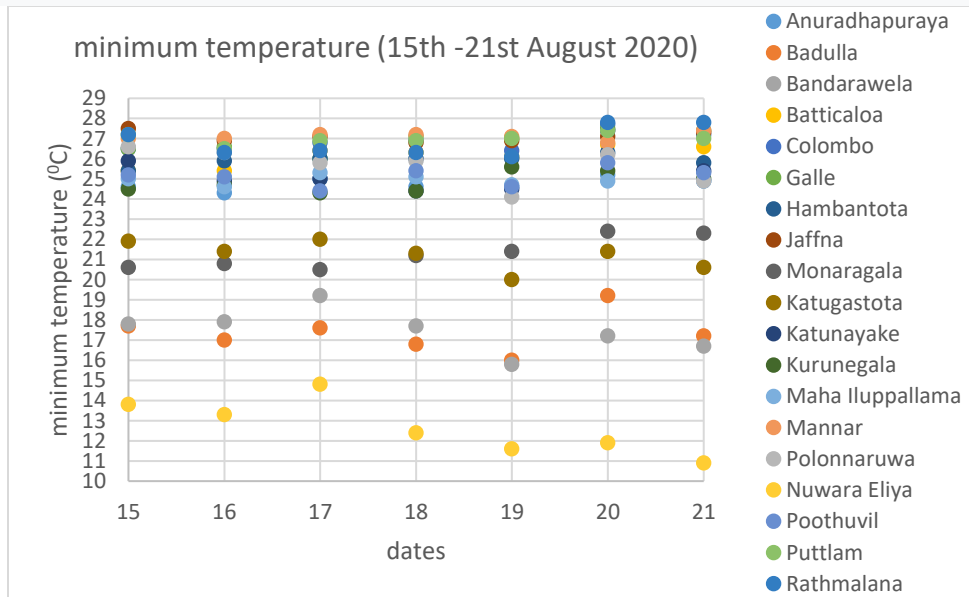


Fig 3.c: minimum temperature

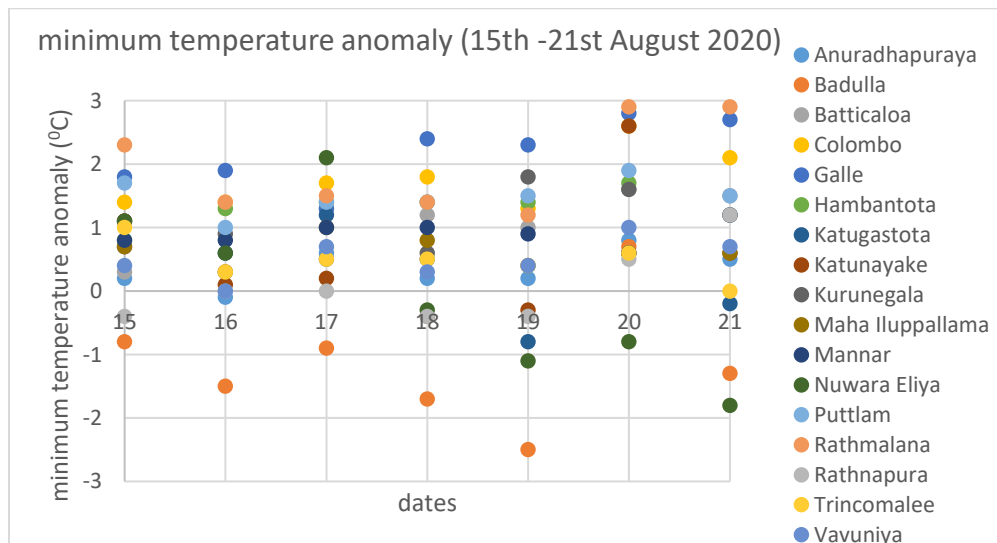


Fig 3.d: anomaly of minimum temperature

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

3. Wind

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

Upper winds at 850hPa:

Northwesterly (10-20 kts) winds were prevailed over the Island throughout the week.

Northwesterly to westerly weekly average winds were prevailed over the island (Figure 4.a) at 850hpa during this week. Northwesterly to westerly climatological (Figure 4.b) wind pattern is prevailed over the Island during this week. There was Easterly moist wind anomaly (Figure 4.c) over southern part of country and easterly similar moist condition over elsewhere at 850hpa.

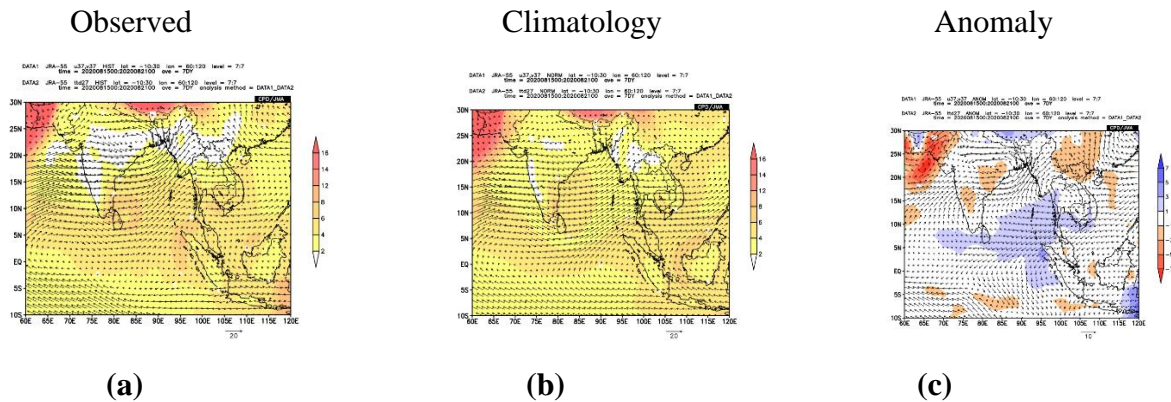


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Prevailed southwesterly to westerly winds (10-15kts) were changed as light westerly 18th onwards.

Weekly averaged Observed winds were north-northwesterly, dry (Figure 5.a) and Northwesterly dry climatological (Figure 5.b) winds are prevailed at 700hPa level during this week. And northeasterly moist wind anomaly (Figure 5.c) was prevailed over the country at 700hpa.

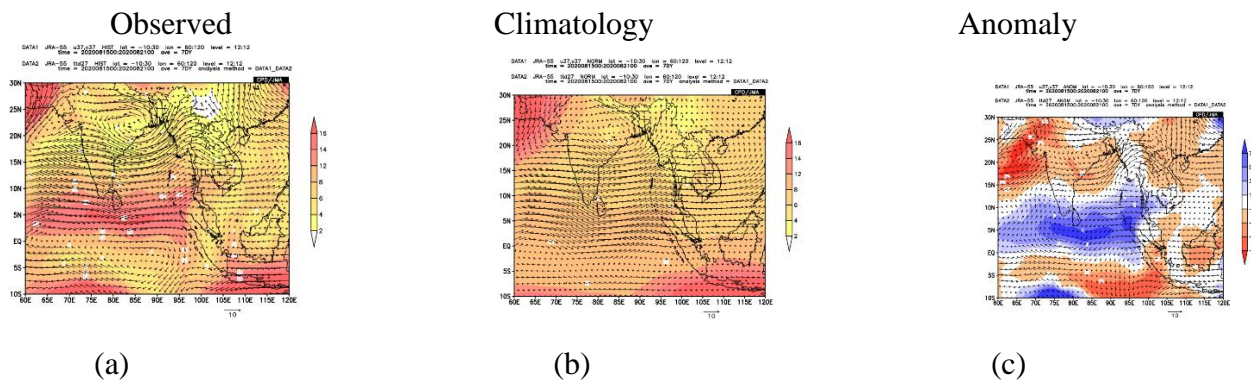


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Northwesterly to northerly (05-15kts) winds were prevailed at the beginning of the week and it was changed to northerly (05-10kts) on 18th. Light northeasterly winds and mild circulation was prevailed to the north of Sri Lanka on 19th. Wind direction had been changed throughout the week at 500hpa. Gradually it had wired northeasterly to southeasterly within next few days.

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

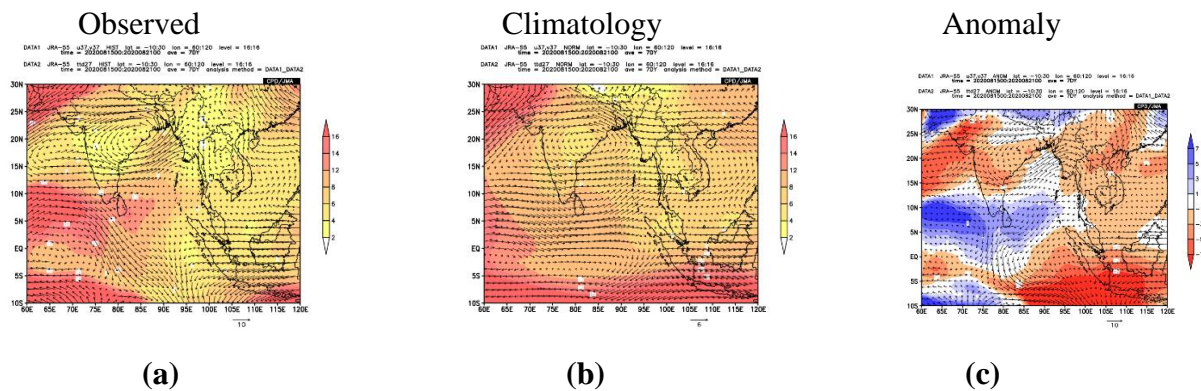


Figure 6: wind pattern with dewpoint departures at 500hpa