

Weekly Weather Summary

15-21 November 2020

1. Rainfall

Even or fairly even pressure distribution had been prevailed over the country throughout the week. Except of 19th and 20th fairly widespread afternoon or evening thunder showers were developed over the country. However, most parts of the country had been received afternoon or evening thunder showers during this week.

Light or light to moderate showers had been continued in hydro catchment areas throughout the week while moderate to fairly heavy showers were reported on 18th.

Low pressure area had been developed in central parts of southwest Bay of Bengal at the end of the week. First bulletin had been issued by Department of Meteorology regarding the low pressure at 2.00 p.m on 20th.

Highest daily (24 hour) rainfall, 163.0mm was reported from Halwathura estate (Kaluthra district) on 20th November. Highest weekly total rainfall, 303.4 mm was reported at Wellawayaya during this week.

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 some rainfall stations

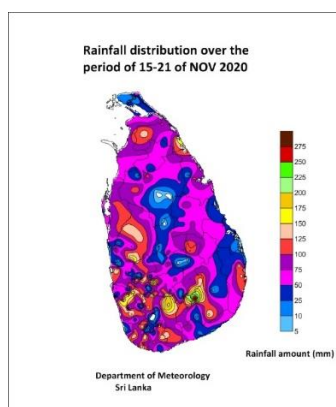


Figure 1: Total rainfall (mm) during the week

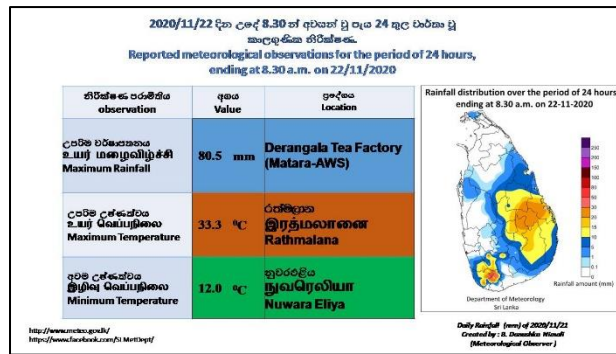
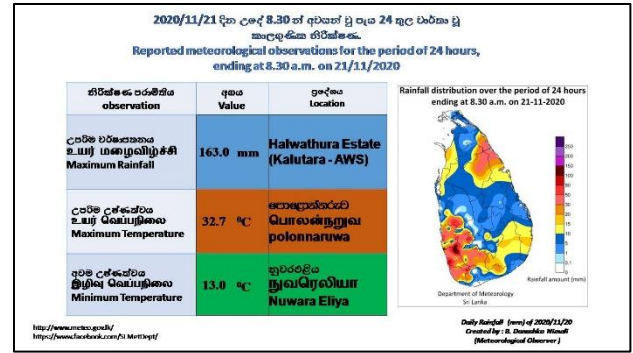
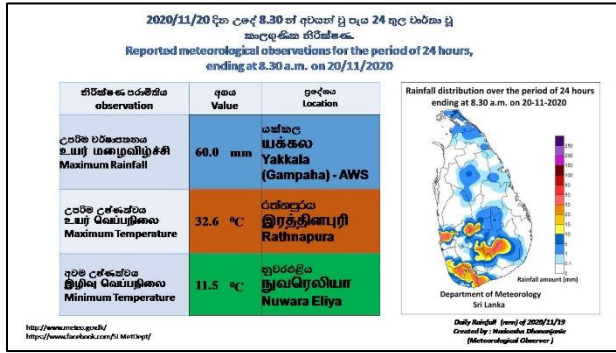
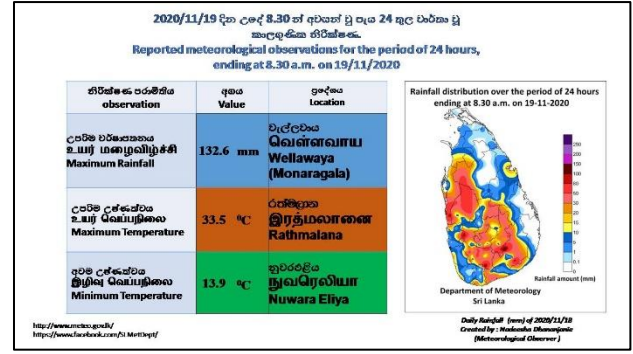
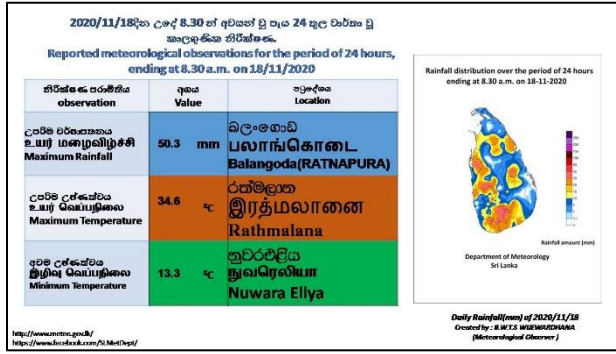
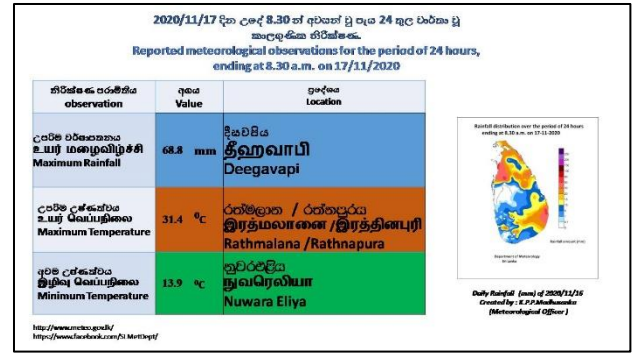
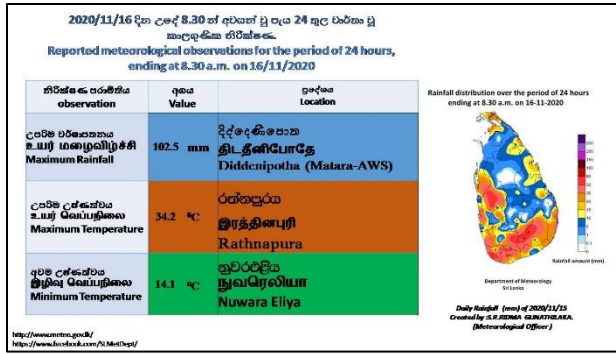


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ($^{\circ}$ C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	37.2
Badulla	71.1
Bandarawela	72.2
Batticaloa	58.7
Colombo	29.9
Galle	56.9
Hambanthota	52.6
Jaffna	41.2
Monaragala	158.5
Katugasthota	20.6
Katunayake	120
Kurunagala	115.8
Maha Illuppallama	17.5
Mannar	83
Polonnaruwa	82.8
Nuwara Eliya	67.7
Pothuvil	124.9
Puttalam	79.1
Rathmalana	44.4
Rathnapura	112.6
Trincomalee	82.2
Vavuniya	55.2
Mattla	46.3

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	48
Norton	69
Maussakele	45.4
Canyon	57.9
Lakshapana	96.5
Upper Kotmale	78.3
Kotmale	62.2
Victoriya	44.7
Randenigala	55.1
Rantambe	39.4
Bowatenna	29.1
Ukuwela	35.4
Samanala Wawa	223.5
Kukuleganaga	100
Maskeliya	40.9
Neboda	0

station	weekly total rainfall
Kahagolla Estate	224
Poonagalla Group	204
Canawarella	183
Hiniduma	179.5
Wellawaya	303.4
Bogawanthalawa	191.7
Balangoda	208.6
Detanagalla	194.5
Moralioya	177
ULINDUWEWA HAYES	236.3

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

2. Temperature

2.1 Maximum temperature

The highest day time (maximum) temperature, 34.6 °C was reported from Rathmalana on 17th November. Further, same station had been reported highest maximum temperature on 16th, 18th and 21st. Nuwara Eliya was reported its highest maximum temperature 22.2°C, on 18th.

Except of 16th, Above normal maximum temperatures were reported at all most all stations throughout the week. Weekly highest positive anomaly of maximum temperature, 4.7°C reported at Katugastota on 15th. And highest negative anomaly of maximum temperature, 3.8°C reported at Badulla on 16th November.

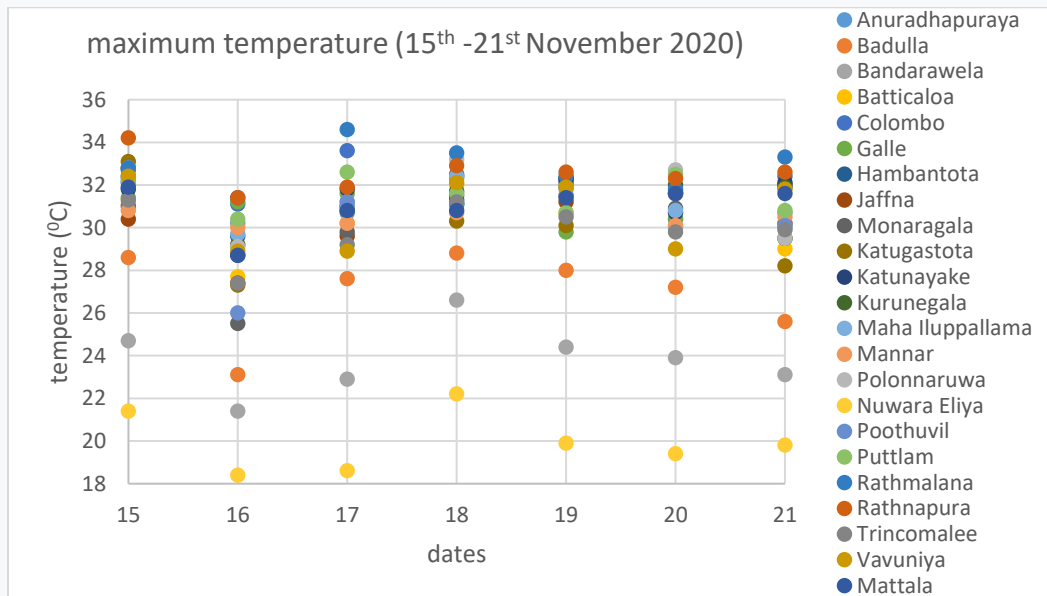


Fig 3.a: maximum temperature

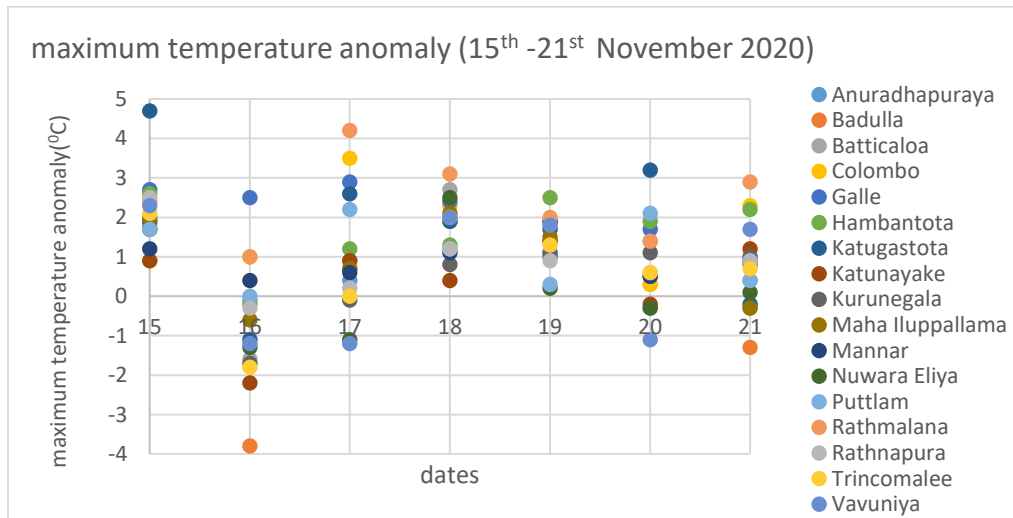


Fig 3.b: maximum temperature anomaly

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 13.3 °C was reported as usual from Nuwara-Eliya station on 18th November. The weekly highest minimum temperature 26.0 °C, was reported at Mannar on 16th (Fig 3.c). Above normal minimum temperatures had been reported all most all station throughout the week. Weekly highest positive anomaly of minimum temperature, 2.7 °C was reported at Nuwara Eliya (Fig 3.d) on 16th. Highest negative anomaly of minimum temperature, 0.7 °C was reported at Mannar on 17th.

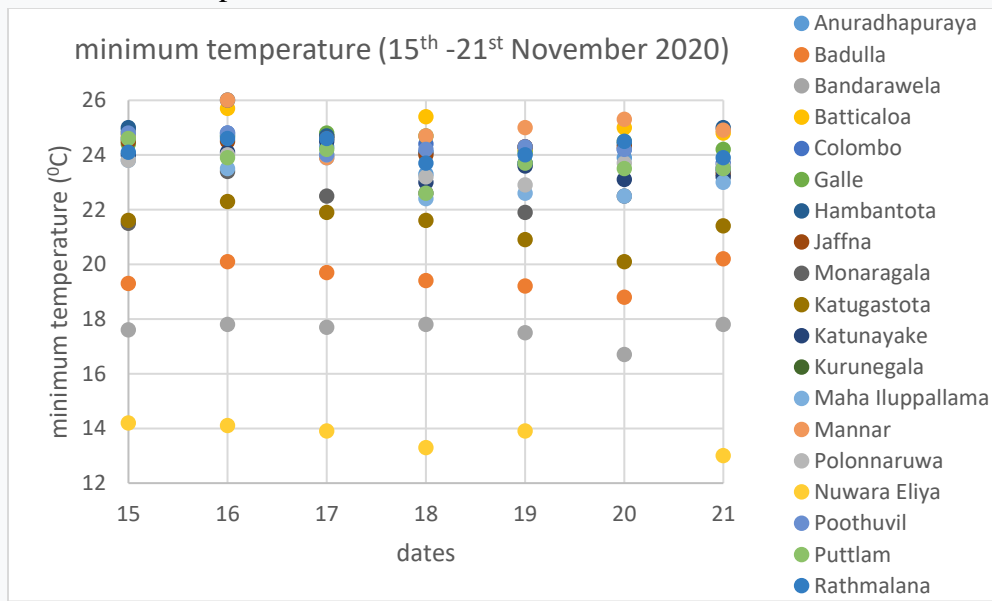


Fig 3.c: minimum temperature

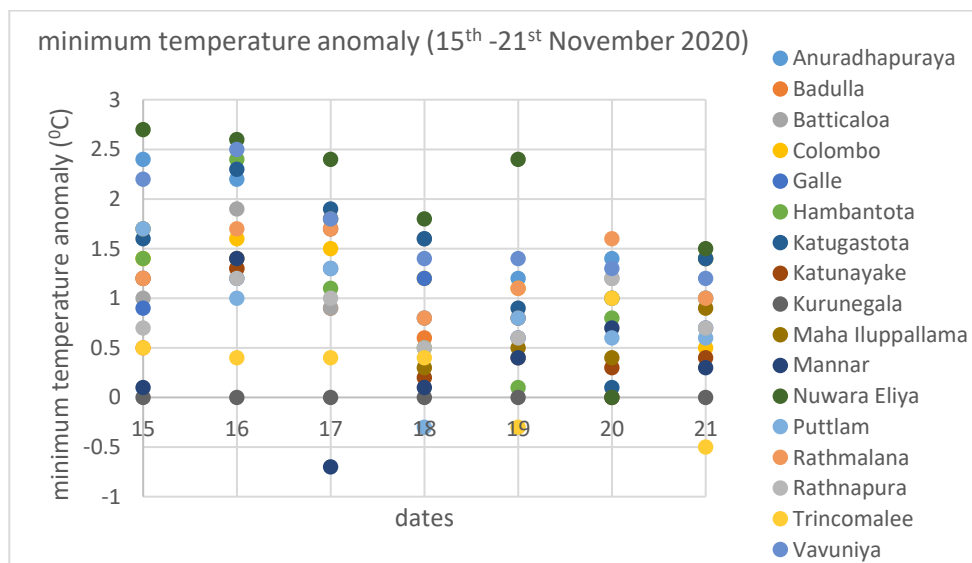


Fig 3.d: anomaly of minimum temperature

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

3. Wind

Light or calm surface winds were prevailed over the Island during this week.

Upper winds at 850hPa:

Except of 18th, Southeasterly to easterly (10-15kts) winds had been prevailed over the Island, which was variable and east-west oriented trough axis over the Island too.

Northerly weekly average observed winds were prevailed over the island (Figure 4.a) at 850hpa during this week. Northwesternly climatological (Figure 4.b) winds are prevailed over the Island. There was southeasterly wind anomaly (Figure 4.c) over the country at 850hpa during this week.

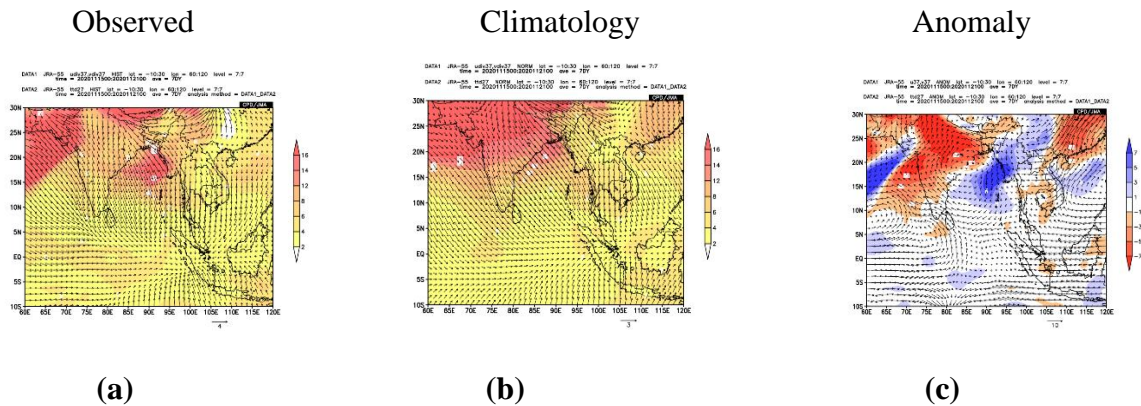


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Southeasterly winds (10-15kts) were changed to variable on 18th November. And east-west oriented trough axis over the island on the same day as well. Northeasterly (10-15kts) winds had been prevailed over the Island 19th onwards.

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

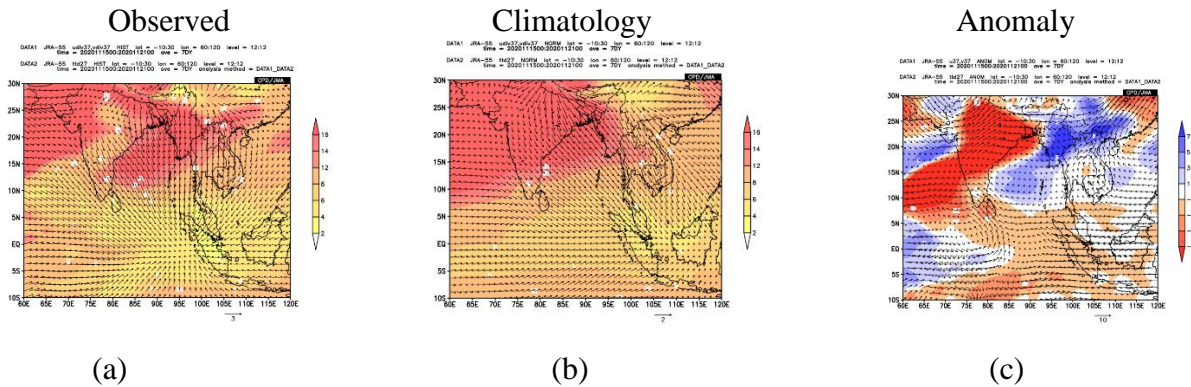


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Easterly (10-20kts) winds were prevailed at the beginning of the week and speed was decreased to (05-10kts) on 18th. Northeasterly (05-10kts) winds had been prevailed over the country at 500hpa on 19th onwards.

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

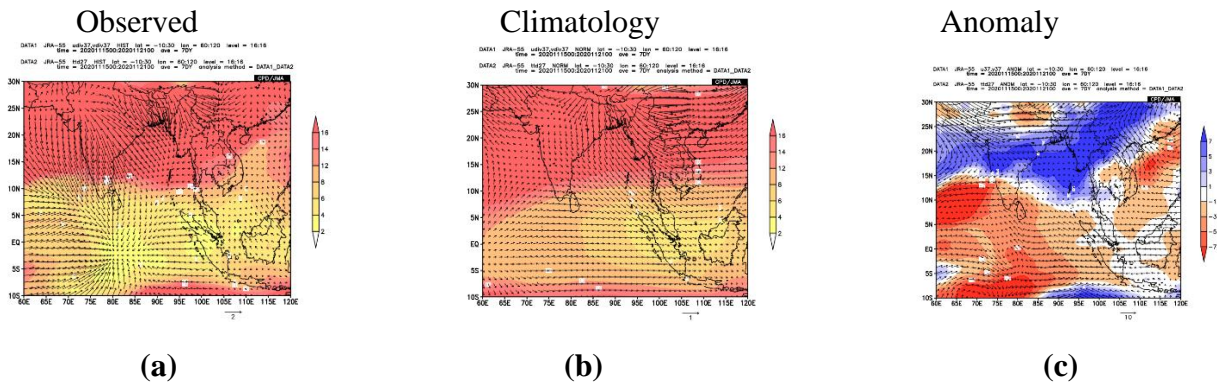


Figure 6: wind pattern with dewpoint departures at 500hpa