

Weekly Weather Summary

01-07 August 2020

1. Rainfall

Fairly widespread showers were reported in Southwestern parts during this week. Fairly heavy showers were reported on 01st, 02nd, 05th and 06th August in Southwestern parts and it was spread to the Northwestern parts on 05th. Moderate showers were reported at Southwest quarter in remaining days of this week. Highest rainfall of the week 85.5mm, was reported at Maskeliya on 05th. Many stations in Nuwara-Eliya and Rathnapura district were reported showers throughout the week. Hydro catchment areas were received moderate to fairly heavy rainfall except of 01st, 03rd and 04th August.

According to DMC situation report, heavy rainfall and strong winds and damages were reported in Kandy and Hambantota districts during the 05th to 09th. Mundalama, Karuwalagaswewa, Wanathavilluwa areas (in Puttalam district) and some areas of Kurunegala district were reported some damages due to strong winds particularly on 05th August. Matara, Galle, Kaluthara, Colombo, Rathnapura and Kegalle districts were reported some damages due to strong winds and heavy rain on 06th. However, some minor damages were reported at NuwaraEliya during 05th to 08th period due to strong winds.

And there was a typhoon Hagupit (Dindo), that was formed as a low-pressure area at Northwest Pacific Ocean (near Philippines) from 31st July and it was intensified in to a typhoon on 03rd August. And Southwest monsoonal wind flow was strong due to that synoptic condition. Hagupit, subsequently weakened over China on 05th and then it was formed as extra tropical cyclone.

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

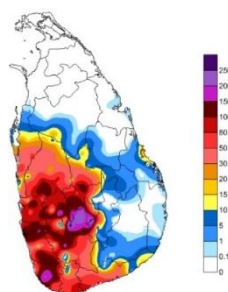


Figure 1: Total rainfall (mm) during the week

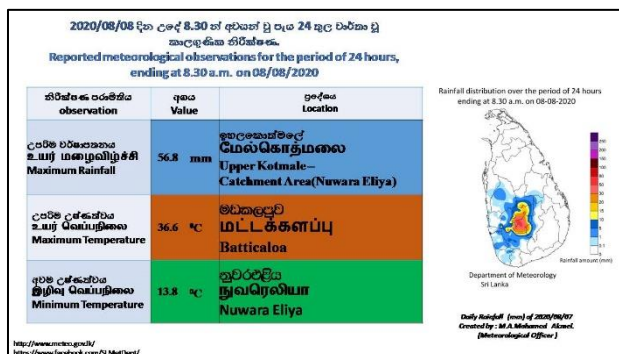
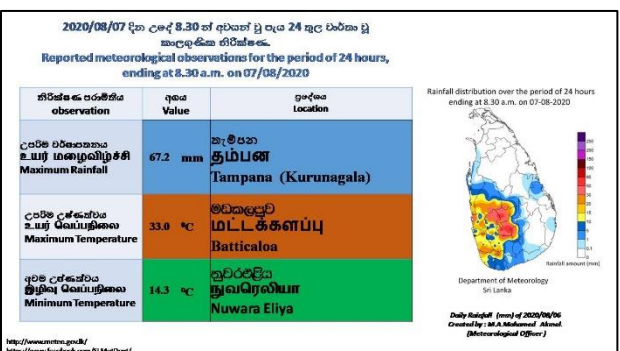
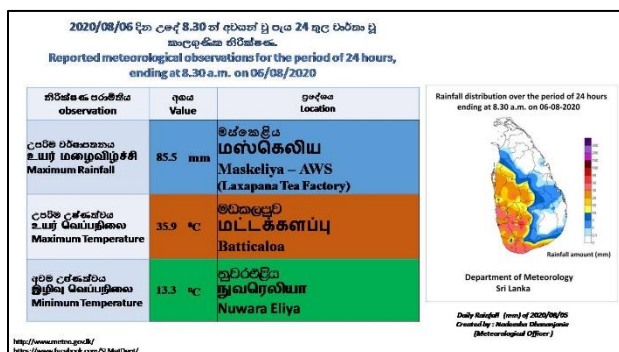
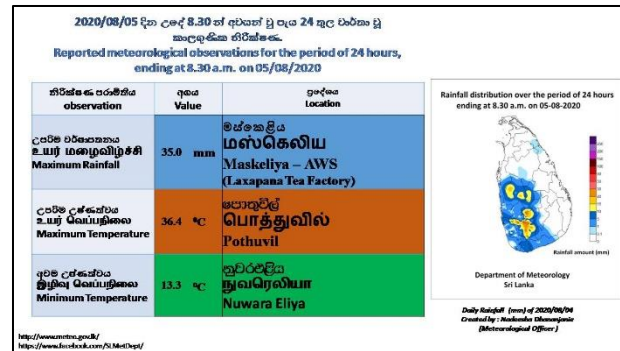
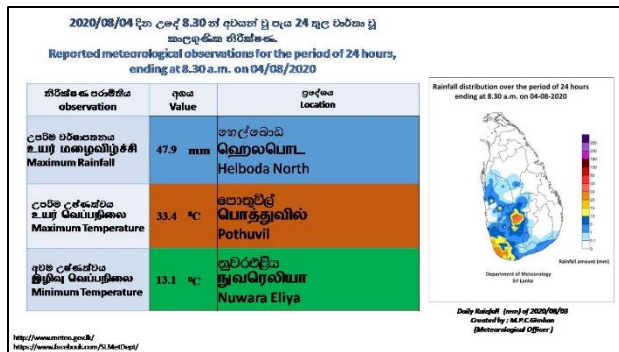
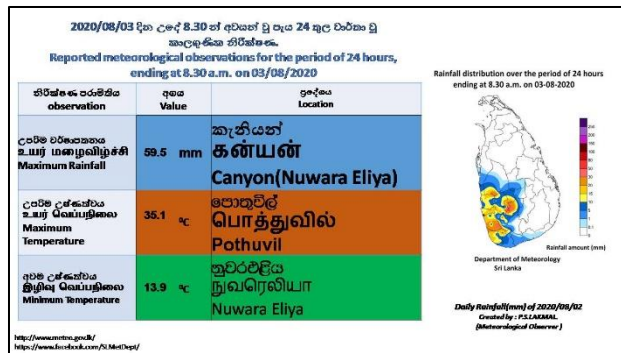
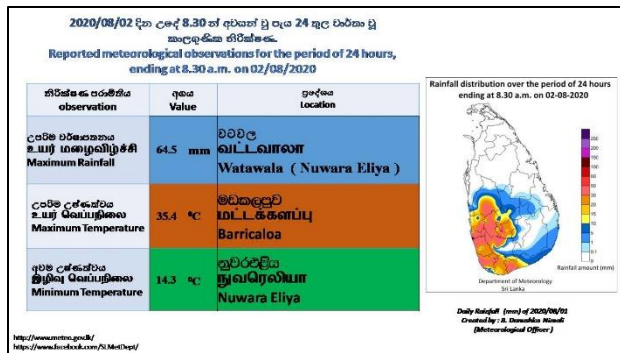


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (°C) during the week

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	2.3
Badulla	4.4
Bandarawela	7.2
Batticaloa	3.4
Colombo	96
Galle	102.9
Hambanthota	60.7
Jaffna	0
Monaragala	1
Katugasthota	73.8
Katunayake	106.1
Kurunagala	77.2
Maha Illuppallama	6.5
Mannar	0
Polonnaruwa	0.3
Nuwara Eliya	183
Pothuvil	0.7
Puttalam	29.4
Rathmalana	116.8
Rathnapura	119
Trincomalee	0
Vavuniya	0
Mattla	18.9

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	212.4
Norton	253.7
Maussakele	189.8
Canyon	273.8
Lakshapana	246.5
Upper Kotmale	222.3
Kotmale	176.1
Victoriya	30.2
Randenigala	7.3
Rantambe	4
Bowatenna	44.1
Ukuwela	91.3
Samanala Wawa	17.5
Kukuleganaga	102
Maskeliya	160
Neboda	NA

Other rainfall stations	Rainfall (mm)
Laxapana Tea Factory	304.5
Alton Estate Factory	244.5
Glentilt Factory	198.5
Dunkeld Estate Factory	188.5
Dikoya Estate Factory	182
Kandal Oya Estate	164.5
Isipathana Primary School, Arakawila	163.5
Ayr Estate	147.5
Kudawa	146
Tientsin Bangalow	145.5

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

2. Temperature

The highest day time (maximum) temperature, 36.6 °C was reported from Batticaloa main meteorological station on 07th and further same station was reported daily highest maximum temperature on 01st, 05th and 06th August (Figure 3.a). Highest maximum temperature in remaining days were reported at Potuvil. Nuwara Eliya was reported its highest maximum temperature as 18.4°C, on 01st.

Below normal maximum temperatures were reported in many stations on 03rd and 06th August (fig 3.b). Batticaloa was reported above normal maximum temperature throughout the week. Highest maximum temperature anomaly 3.5°C, was reported at Batticaloa.

The lowest minimum temperature 13.1°C, was reported as usual from Nuwara-Eliya station on 04th August. The minimum temperature was reported in between 13.0 °C to 14.5°C at NuwaraEliya (Fig 3.c) throughout the week. Above normal minimum temperatures were reported at Badulla, Mannar, Vavuniya, Katugastota and NuwaraEliya throughout the week (Fig 3.d).

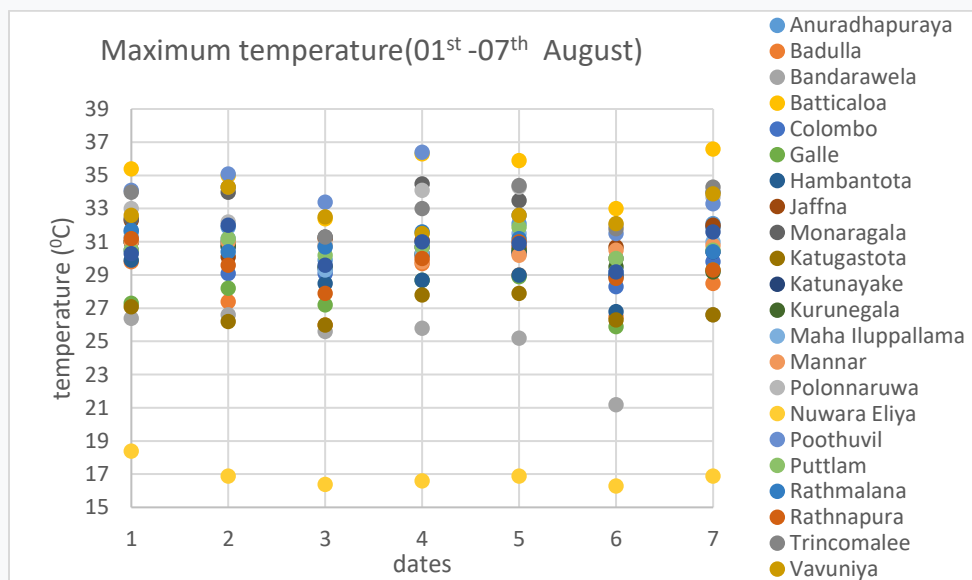


Fig 3.a: maximum temperature

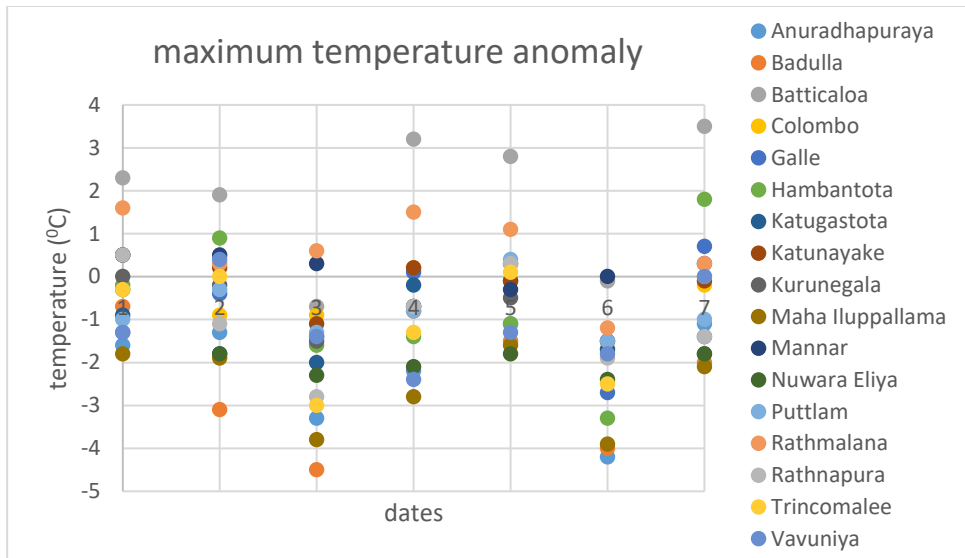


Fig 3.b: anomaly of maximum temperature

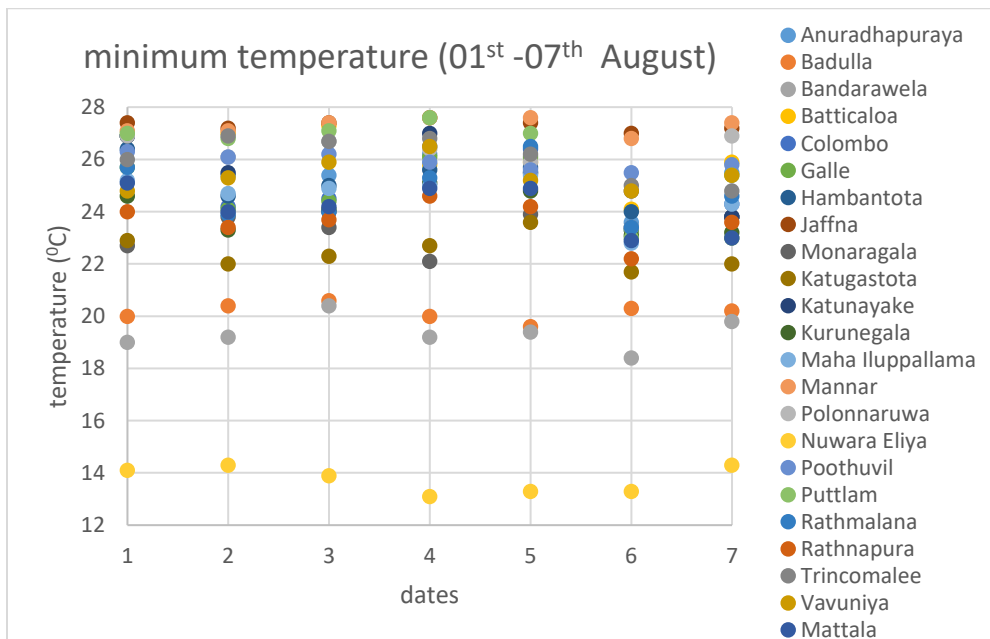


Fig 3.c: minimum temperature

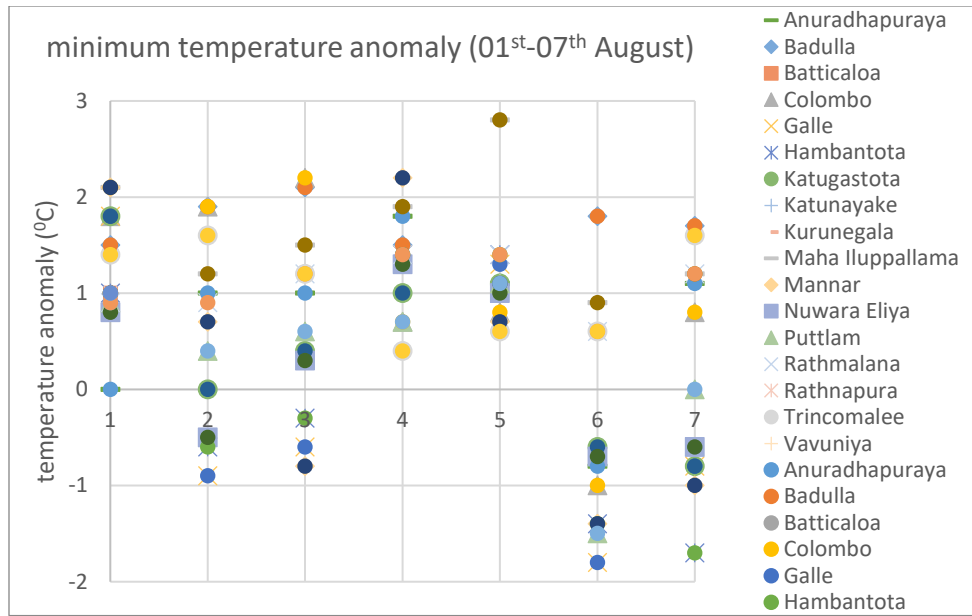


Fig 3.d: anomaly of minimum temperature

Figure 3. Maximum and minimum temperatures ($^{\circ}\text{C}$) and offsets ($^{\circ}\text{C}$) during the week

3. Wind

Southwesterly light to moderate or moderate surface winds were prevailed during this week. Gradient winds were strong too during this period. There was steep Southwesterly pressure gradient across the Island in many days.

Upper winds at 850hPa:

Generally, strong Southwesterly (25-35kts) winds were prevailed over the Island during this week.

Westerly weekly average winds were prevailed over the island (Figure 4.a) at 850hpa during this week. Northwestern climatological (Figure 4.b) wind pattern is prevailed over the Island during this week. There was Southwesterly slightly dry wind anomaly (Figure 4.c) was at 850hpa during this week.

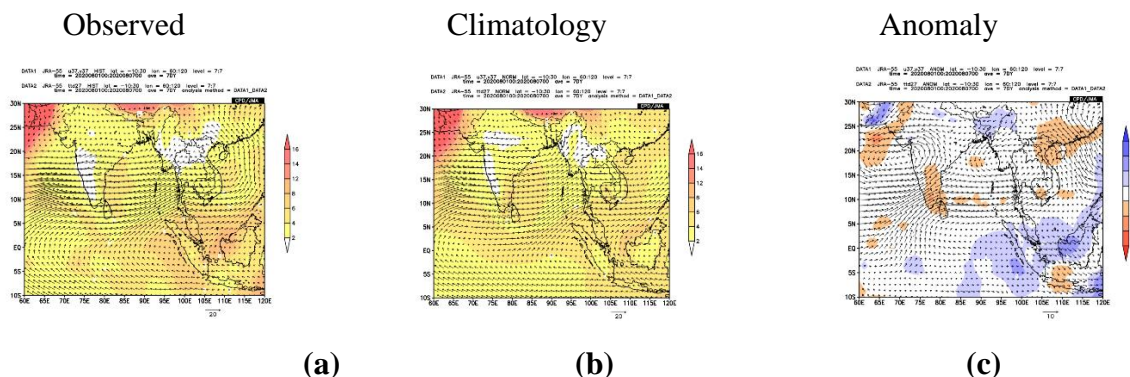


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Southwesterly to westerly winds (25-35kts) were prevailed over the Island until 05th August and it was changed to Northwesterly 05th onwards.

Weekly averaged Observed winds were Westerly, dry (Figure 5.a) and Northwesterly, dry climatological (Figure 5.b) winds are prevailed at 700hPa level during this week. Southwesterly near normal moisture wind anomaly (Figure 5.c) was prevailed over the Island at 700hpa during this week.

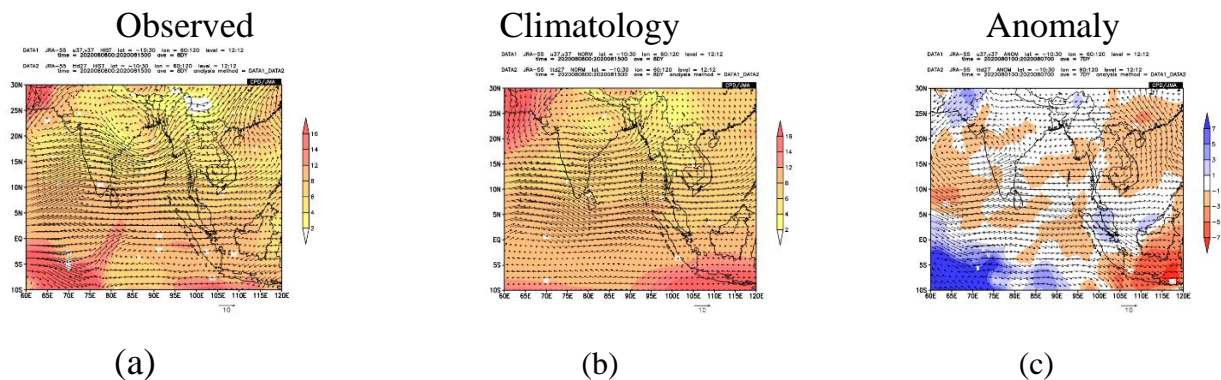


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Westerly (20-30kts) winds were prevailed from 02nd to 05th August and next day it was light (00-05) variable.

The weekly observed (Figure 6.a) winds were dry, Westerly over the island. The climatological wind pattern is Northwesterly (Figure 6.b). However, Westerly wind anomaly, bear normal moisture condition (Figure 6.c) was prevailed over the Island at 500hpa during this week.

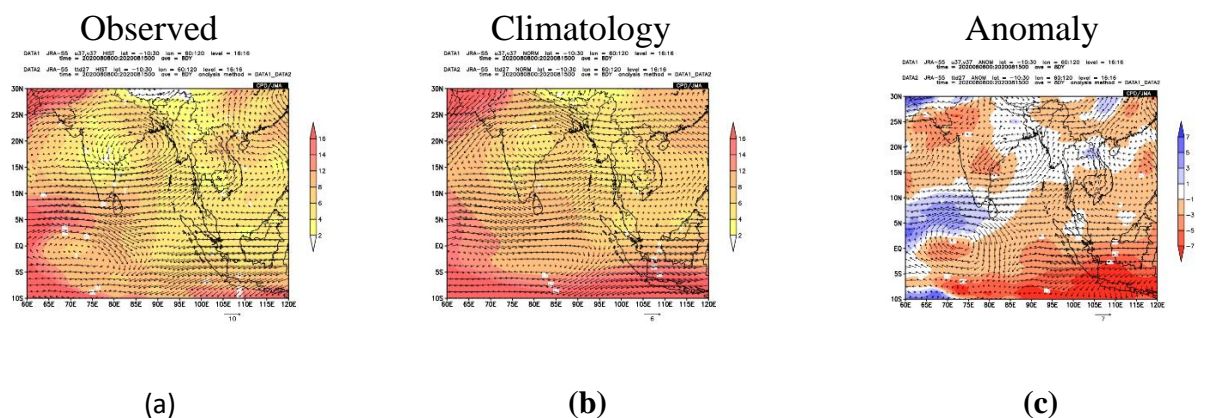


Figure 6: wind pattern with dewpoint departures at 500hpa