

Weekly Weather Summery

08 -14 June 2020

1. Rainfall

Southwest monsoon conditions were established over the country on 08th June. Showers were continued in southwestern parts throughout the week. And rainy condition was enhanced during 10th to 12th June. Fairly heavy to moderate showers were reported in hydro catchment areas on 10th. However moderate showers were received at Kandy, Colombo, Rathnapura and Kurunegala districts during this period too.

The highest daily recorded rainfall 87.5mm, was reported at Hapugasthenna estate (Nuwara-Eliya AWS station) on 10th June.

And highest weekly accumulated rainfall 223.5 mm, was reported at Hapugasthenna Estate in Nuwara-Eliya district during the week. Hydro-catchment areas in the south-western slope of central hills had been received some amount of rainfalls during the week and Maskeliya (in Nuwara-Eliya district) had been received highest total amount of rainfall as 221.2mm. Dry weather was experienced in dry zone during this week too.

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

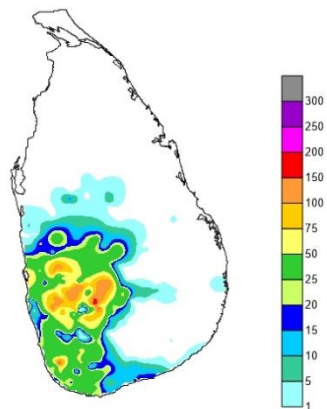


Figure 1: Total rainfall (mm) during the week

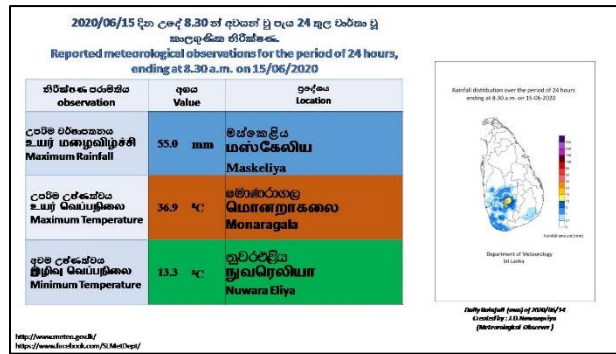
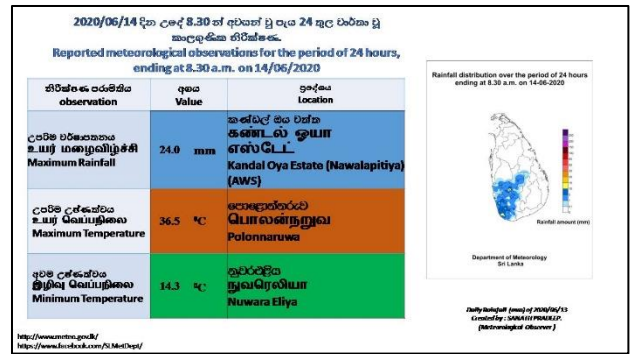
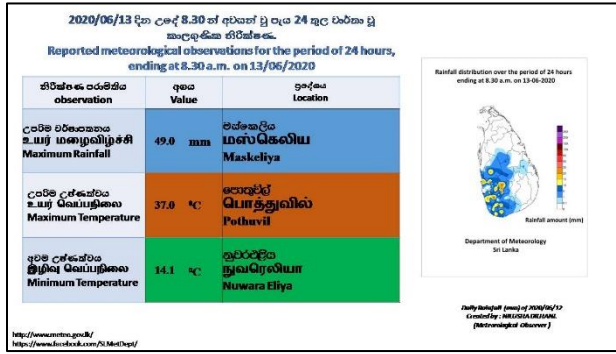
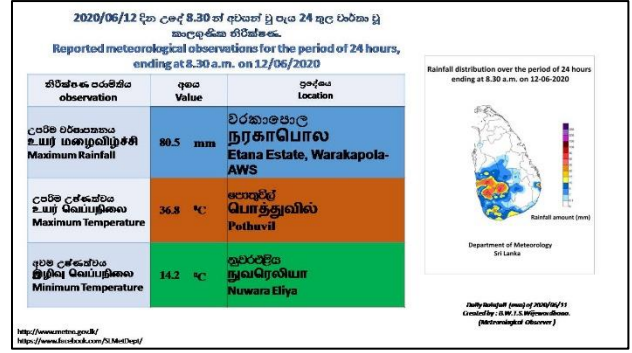
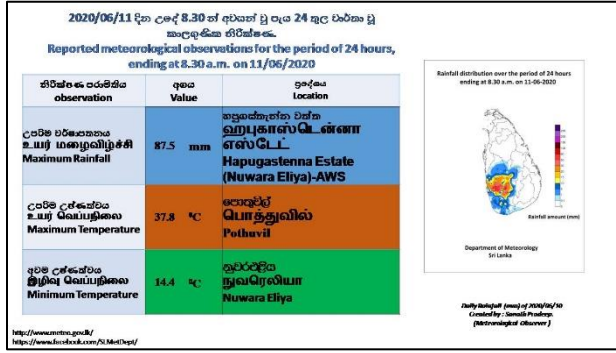
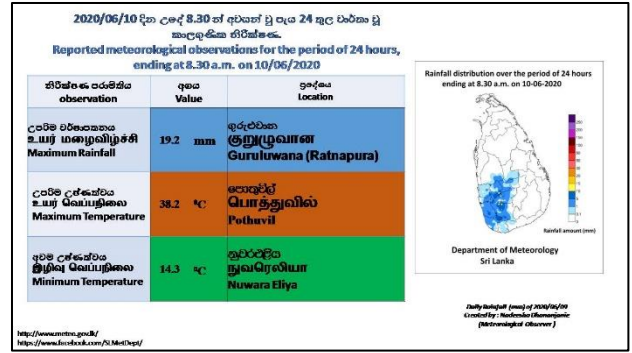
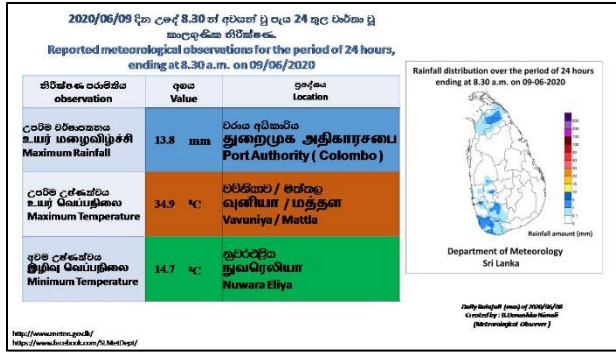


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ($^{\circ}$ C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.0
Badulla	10.6
Bandarawela	0.1
Batticaloa	1.3
Colombo	15.4
Galle	29.6
Hambanthota	20.1
Jaffna	0.0
Monaragala	1.2
Katugasthota	30.9
Katunayake	65.6
Kurunagala	18.0
MahaIlluppallama	2.4
Mannar	0.0
Polonnaruwa	0.0
Nuwara Eliya	35.6
Pothuvil	0.0
Puttalam	0.0
Rathmalana	13.4
Rathnapura	56.8
Trincomalee	0.0
Vavuniya	0.0
Mattala	1.5

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	121.5
Norton	157.3
Maussakele	120.5
Canyon	171.9
Lakshapana	140.5
Upper Kotmale	85.6
Kotmale	112.0
Victoriya	1.4
Randenigala	0.0
Rantambe	0.0
Bowatenna	5.6
Ukuwela	22.5
Samanala Wawa	2.0
Kukuleganaga	41.0
Maskeliya	221.2

Rain Gauge Stations	
Station	Rainfall (mm)
Deraniyagala Divisional Secretariate	118.5
Maussakele	120.5
Ayr Estate	120.5
Kotagala Rosita	120.7
Castlereigh	121.5
Padukka Estate	127.7
Helboda North	130.4
Weweltalawa	133.2
Laksapana	140.5
Pambegama Tea Factory	144.5
Norton	157.3
Canyon	171.9
Poddiwela Farm	181.3
Maskeliya	221.2
Hapugastenna Estate	223.5

Table 1: Total weekly Rainfall (mm) at Main Meteorological stations, Hydro- catchment areas and some rain gauge stations during the week.

2. Temperature

The highest day time (maximum) temperature, 38.2 °C was reported from Potuvil main meteorological station on 09th June (Figure 3.a), further 3 more days, daily highest maximum temperature was reported from same station. Vavuniya/Mattala, polonnaruwa and Monaragala were reported highest maximum temperature on 08th, 13th and 14th respectively. Nuwara Eliya was reported its highest maximum temperature 21.2°C, on 08th.

Above normal maximum temperatures were reported at all stations on 09th, 10th and 14th (fig 3.b). Below normal maximum temperatures were reported at some stations on 08th and 11th June. Rathmala had been reported 1.5°C to 2.5°C above normal maximum temperature throughout the week. Highest maximum temperature positive anomaly (above) 4.6°C, was reported at Hambantota on 14th.

The lowest minimum temperature was 13.5°C and it was reported as usual from Nuwara-Eliya station on 08th June. The minimum temperature was reported in between 13.5 °C to 15.0°C at NuwaraEliya (Fig 3.c) throughout the week. Highest minimum temperature positive anomaly 3.4°C, was reported at Rathmalana on 10th (Fig 3.d). Except on 08th and 12th, above normal minimum temperatures were received at all stations during this week.

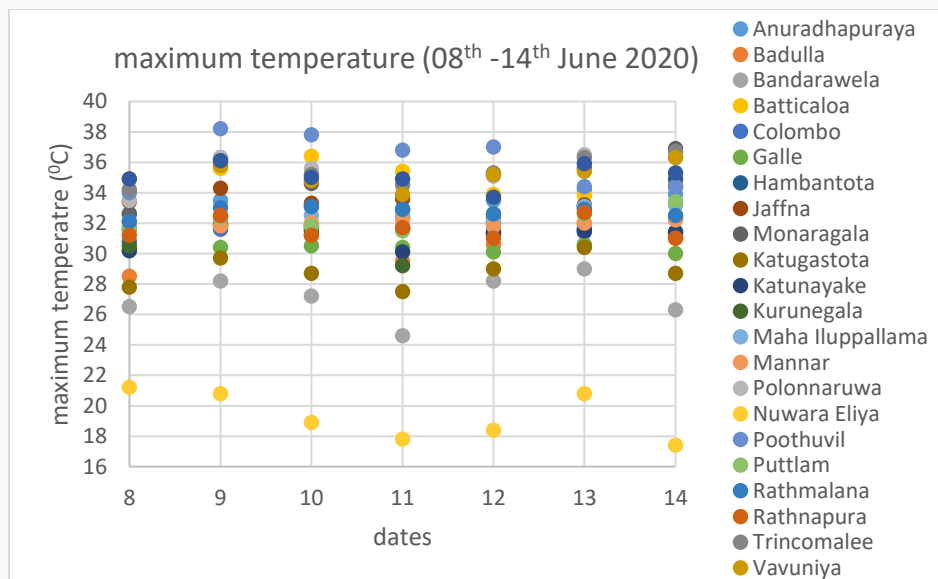


Fig 3.a: maximum temperature

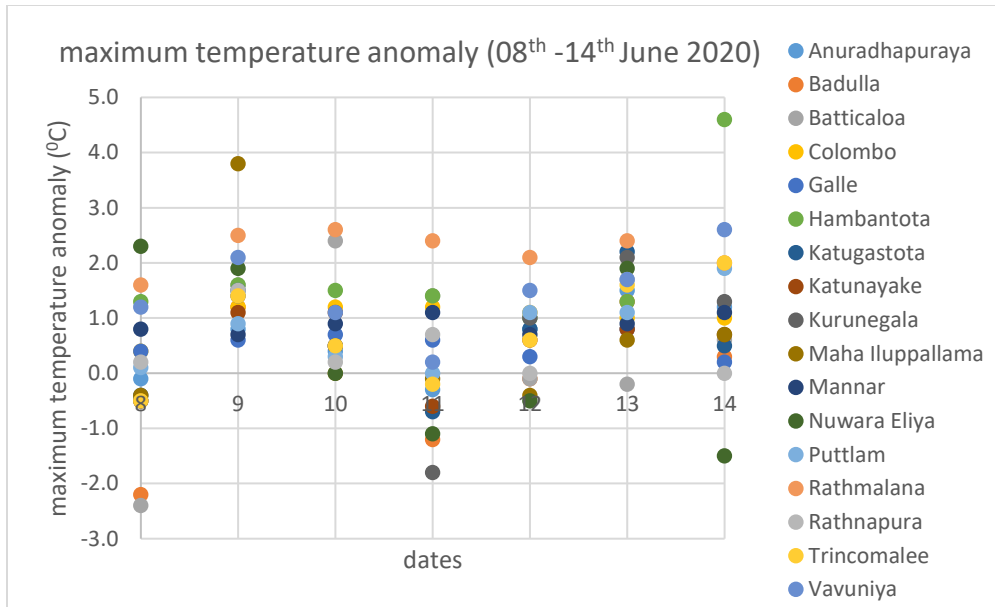


Fig 3.b: anomaly of maximum temperature

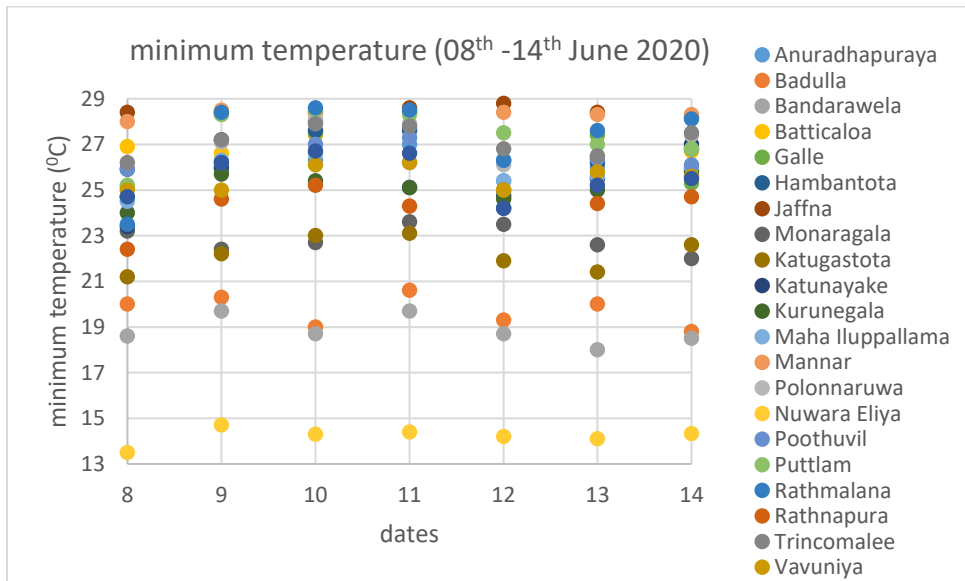


Fig 3.c: minimum temperature

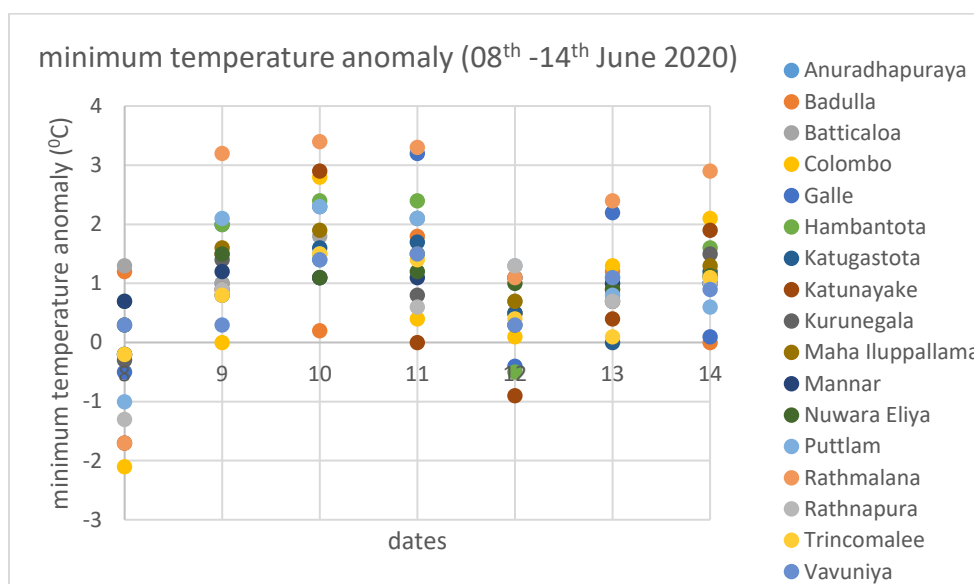


Fig 3.d: anomaly of minimum temperature

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

3. Wind

Light to moderate Southwesterly surface winds were prevailed during this week. And prevailed southwesterly moderate pressure gradient had been changed as steep 10th onwards.

Upper winds at 850hPa:

Northwesterly (10-20 kts) winds were changed to westerly to southwesterly on 10th onwards. There was a cyclonic circulation over north Bay of Bengal at 850hpa from 10th. It was moved to west ward and it was disappeared 13th onwards.

Northwesterly weekly average winds were prevailed over the island (Figure 4.a) at 850hpa during this week. Westerly climatological (Figure 4.b) wind pattern is prevailed over the Island during this week. There was Easterly and similar moist wind anomaly (Figure 4.c) at 850hpa.

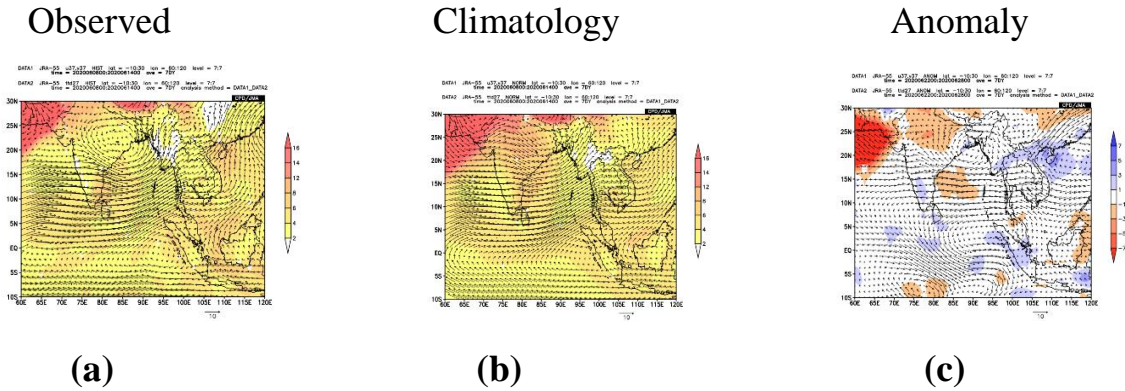


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Northwesterly winds (10-20kts) were fed to the cyclonic circulation which was located in North Bay of Bengal. It was moved to west ward and winds had been changed to westerly 12th onwards.

Weekly averaged Observed winds were Northwesterly (Figure 5.a) and mild cyclonic circulation over northwest Indian coast at 700hpa. Northwesterly to westerly dry climatological (Figure 5.b) winds are prevailed at 700hPa level during this week. And Easterly to northeasterly wind anomaly (Figure 5.c) was prevailed with similar moisture content over Southwestern part and slightly dry condition over Eastern parts at 700hpa.

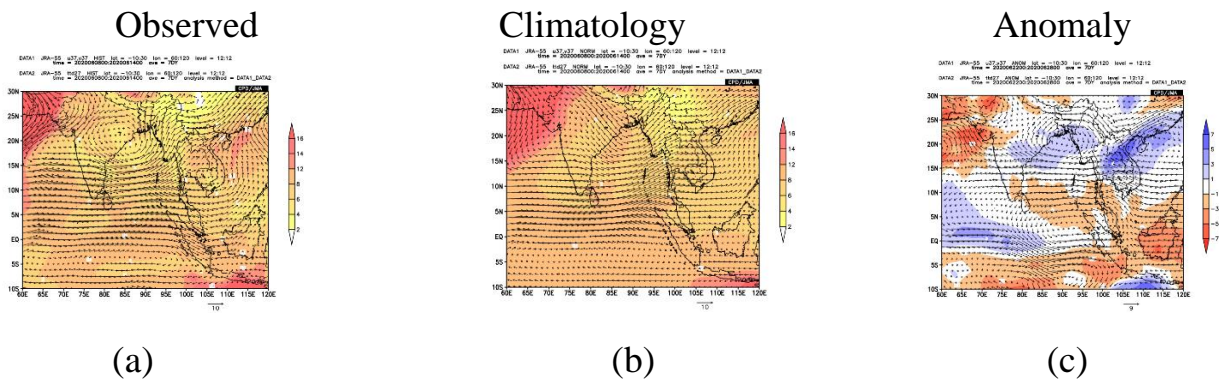


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Northwesterly (05-10kts) winds were prevailed during the first two days of the week. Cyclonic circulation was located at northeast Bay of Bengal at the beginning of the week. Winds had been changed to westerly to Southwesterly (05-10kts) 12th onwards due to west ward movement of circulation. Finally, it had been disappeared 13th onwards.

The weekly observed (Figure 6.a) winds were westerly over the island and cyclonic circulation over the Northwest coast of India at 500hpa level too. The climatological wind pattern is westerly and dry (Figure 6.b). However, westerly dry wind anomaly (Figure 6.c) was prevailed over the Island at 500hpa during this week. And cyclonic circulation over the northwest India coast in the anomaly map too.

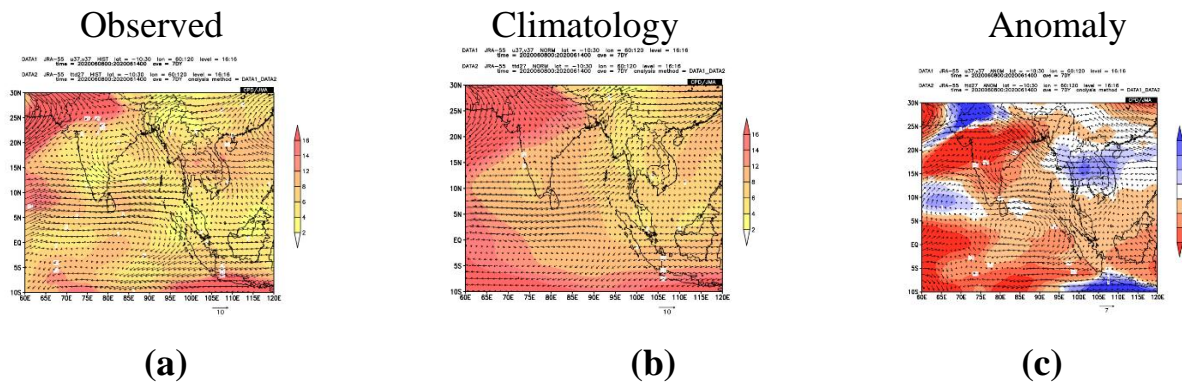


Figure 6: wind pattern with dewpoint departures at 500hpa