

Weekly Weather Summary

22-28 June 2020

1. Rainfall

Southwesterly (05- 15kts) surface winds were prevailed over the country in many days during this week. Generally, there was mild or moderate southwesterly pressure gradient over the Island throughout the week except of 23rd June where it was fairly even pressure distribution. Considerable showers were reported on 24th to 26th June. Heavy rainfall was reported at Deraniyagala (107.0mm) in Kegalle district on 25th and fairly heavy rainfall was reported at Maradankadawala on 24th due to an afternoon thunder shower. Lakshapana has reported fairly heavy rainfall 78.2mm, on 26th June. Light rain was reported in Southwestern areas remaining days. Figure 2 represents total rainfall at main meteorological stations, catchment areas and reported highest total rainfall at some stations during the week.

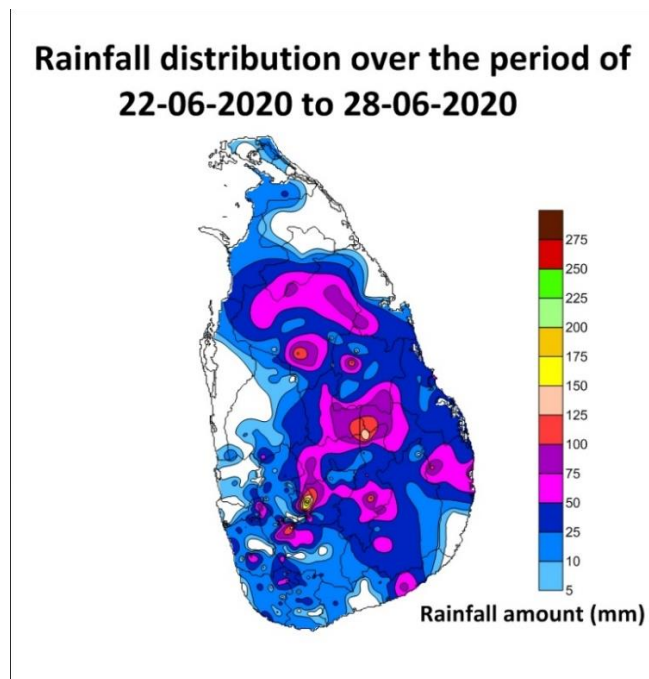


Figure 1: Total rainfall (mm) during the week

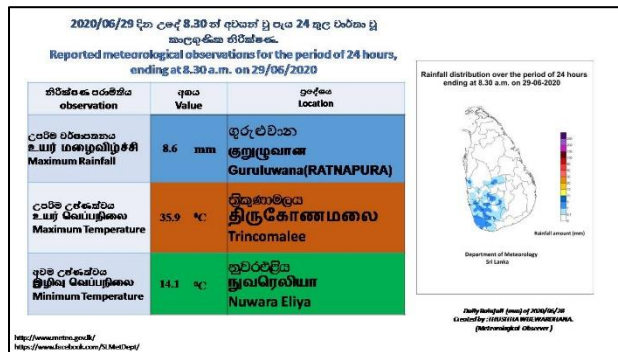
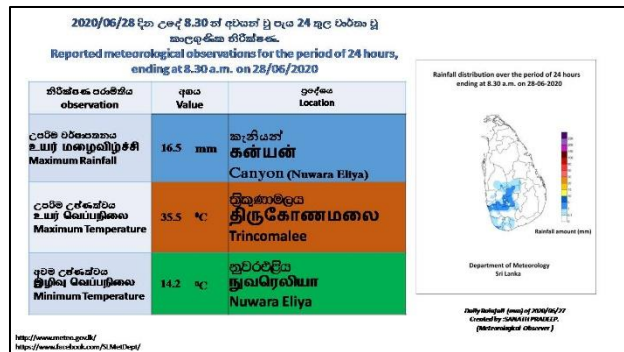
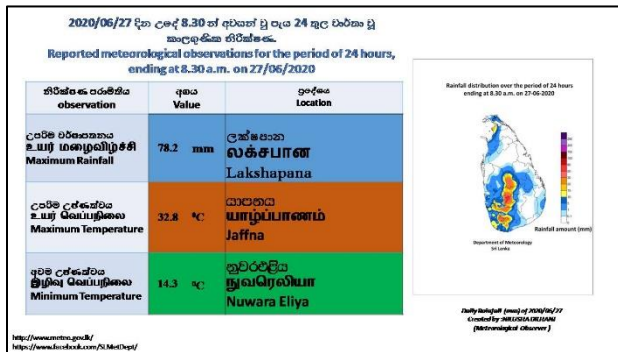
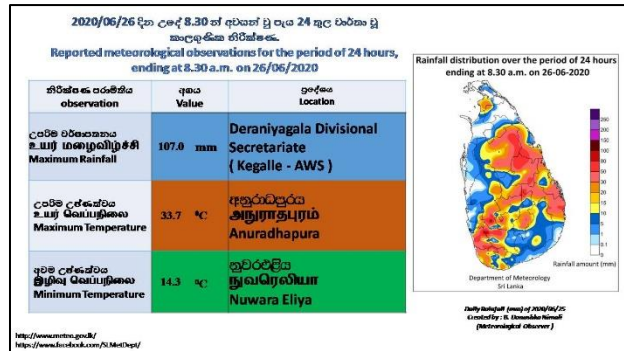
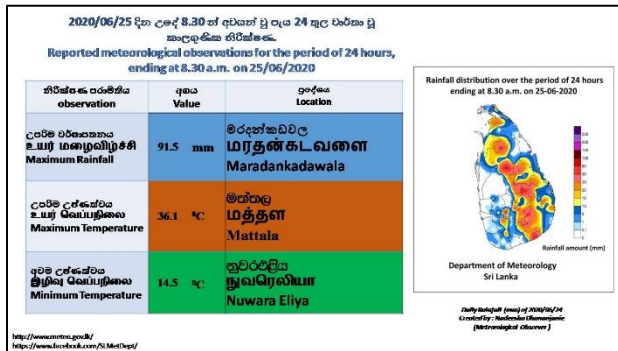
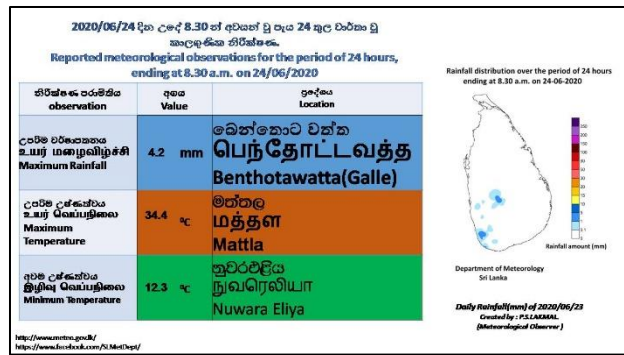
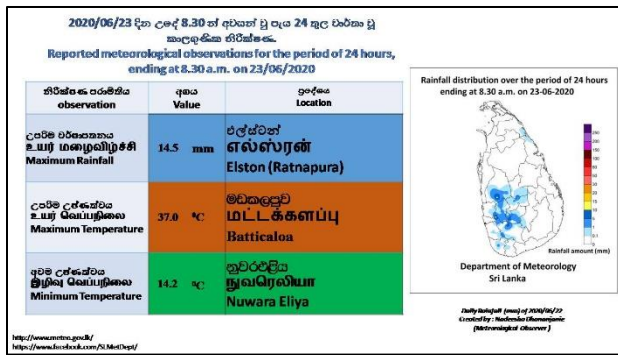


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ($^{\circ}$ C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	12.9
Badulla	132.0
Bandarawela	59.1
Batticaloa	36.0
Colombo	4.8
Galle	48.1
Hambanthota	4.1
Jaffna	2.6
Monaragala	42.1
Katugasthota	65.4
Katunayake	3.0
Kurunagala	6.1
Maha Illuppallama	130.8
Mannar	7.6
Polonnaruwa	42.4
Nuwara Eliya	30.0
Pothuvil	9.1
Puttalam	0.0
Rathmalana	17.7
Rathnapura	116.8
Trincomalee	0.1
Vavuniya	57.5
Mattla	26.2

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	95.5
Norton	159.3
Maussakele	69.0
Canyon	108.9
Lakshapana	170.9
Upper Kotmale	66.6
Kotmale	95.1
Victoriya	45.0
Randenigala	14.1
Rantambe	22.1
Bowatenna	48.4
Ukuwela	56.8
Samanala Wawa	20.0
Kukuleganaga	72.6
Maskeliya	102.8
Neboda	0.0

Station	Rainfall (mm)
Watawala	210.2
Guruluwana	165.7
Girandurukotte	142.8
Minneriya	130.6
Inginiyagala	110
Canawarella	100
Kanthale Tank	92.7
Elston	92
Maradankadawala	91.5
Akkaraipattu Irrigation	91.1
Aralaganwila	90.6
Tissamaharamaya	89.2
Kalavedi Ulpotha	83
Ulukkulam	79.2

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

2. Temperature

The highest day time (maximum) temperature, 37.0 °C was reported from Batticaloa main meteorological station on 22nd June (Figure 3.a). Mattala and Trincomalee were reported highest maximum temperature on 23rd, 24th and 27th, 28th respectively. Nuwara Eliya was reported its highest maximum temperature 24.0°C, on 24th.

Below normal maximum temperatures were reported in many stations on 26th June (fig 3.b). Above normal maximum temperatures were reported in all stations on 22nd. Puttalam and Hambantota were reported above normal maximum temperature throughout the week. Hambantota was reported 4.9°C above normal maximum temperatures on 22nd.

The lowest minimum temperature was 12.3°C and it was reported as usual from Nuwara-Eliya station on 24th June. The minimum temperature was reported in between 12.0 °C to 14.5°C at NuwaraEliya (Fig 3.c) throughout the week. Above normal minimum temperatures were reported in all stations on 23rd June (Fig 3.d).

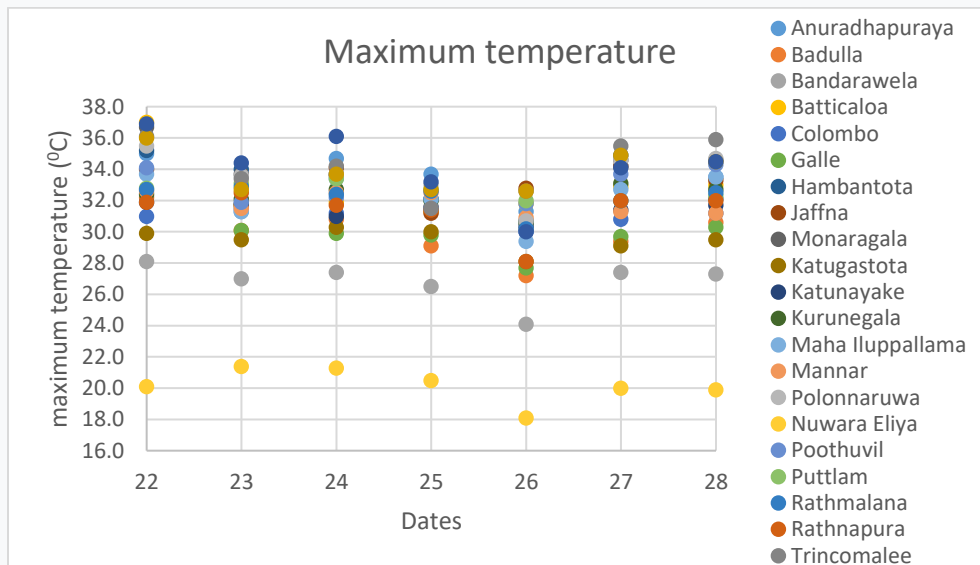


Fig 3.a: maximum temperature

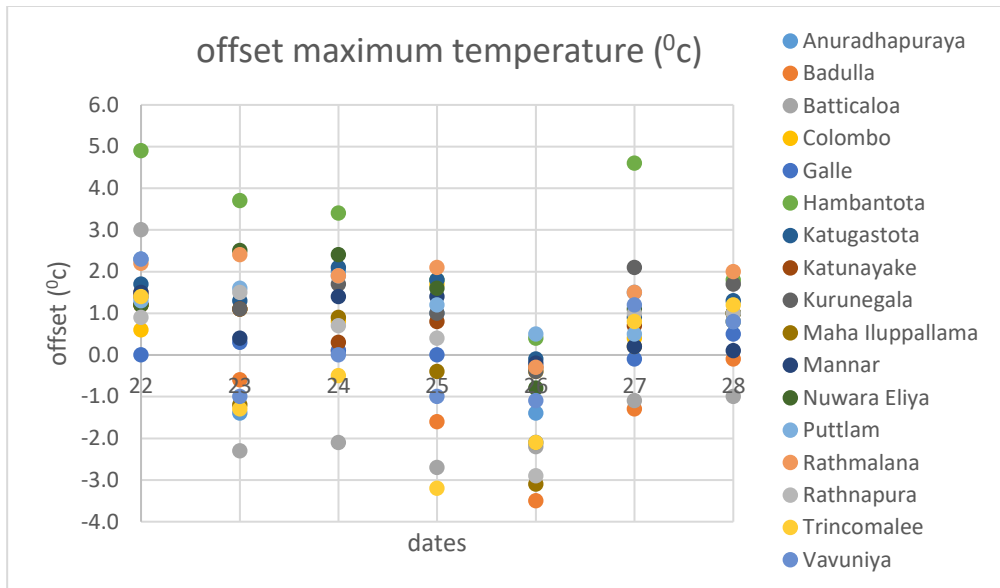


Fig 3.b: maximum temperature offset

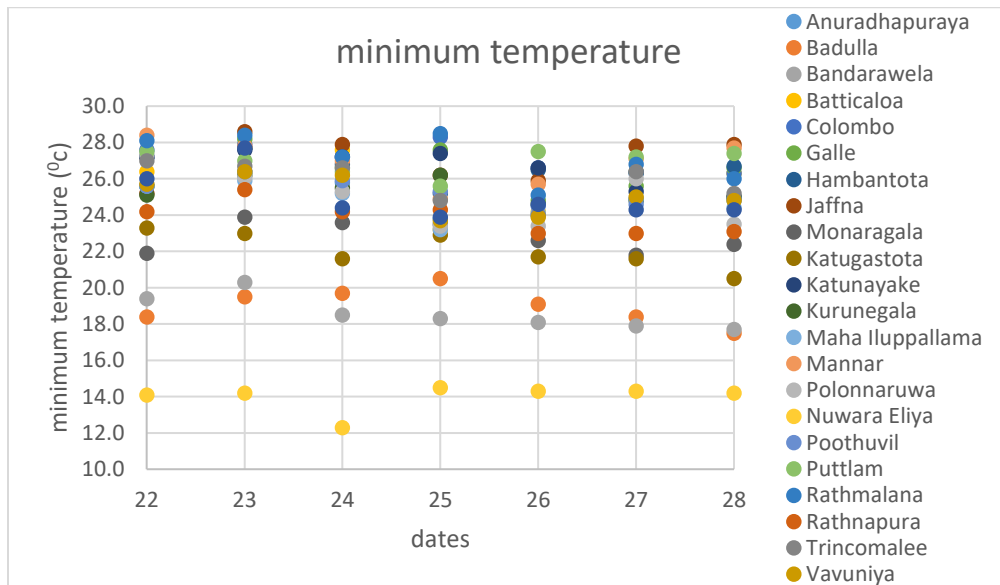


Fig 3.c: minimum temperature

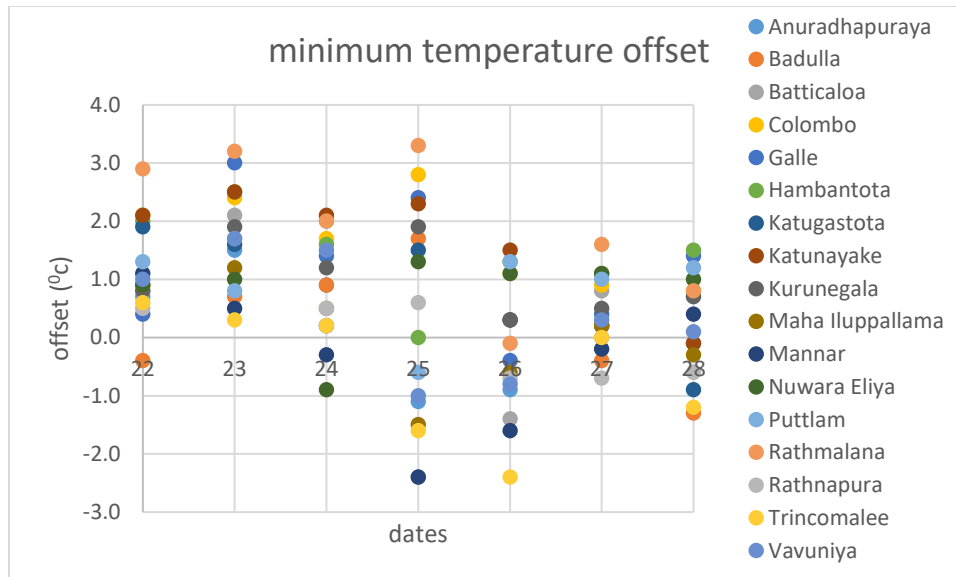


Fig 3.d: minimum temperature offset

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

3. Wind

Southwesterly light to moderate surface winds were prevailed during this week.

Upper winds at 850hPa:

Westerly to Northwesterly (10-20 kts) winds were prevailed over the Island and there was mild circulation around Sri Lanka on 24th and 25th.

Northwesterly to westerly weekly average wind condition was prevailed over the island (Figure 4.a) at 850hpa during this week. West-Northwesterly climatological (Figure 4.b) wind pattern is prevailed over the Island during this week. There was Easterly wind anomaly (Figure 4.c) and moisture conditions were very similar to the climatological values at 850hpa during this week.

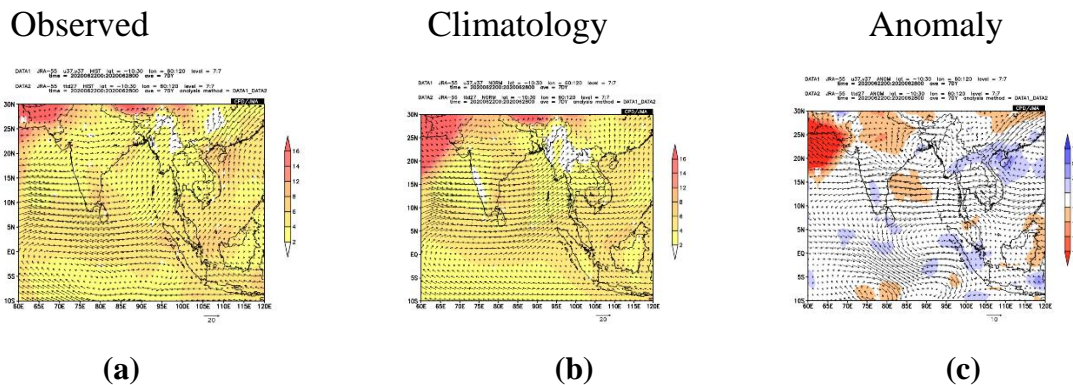


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Generally Northwesterly winds (10-15kts) were prevailed over the Island. There was mild circulation over the South Bay of Bengal area on 23rd June. Gradually it was moved to East ward and on 25th it was located to the east of Sri Lanka. It was over Northern part of the Island on 26th and moved to South India.

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

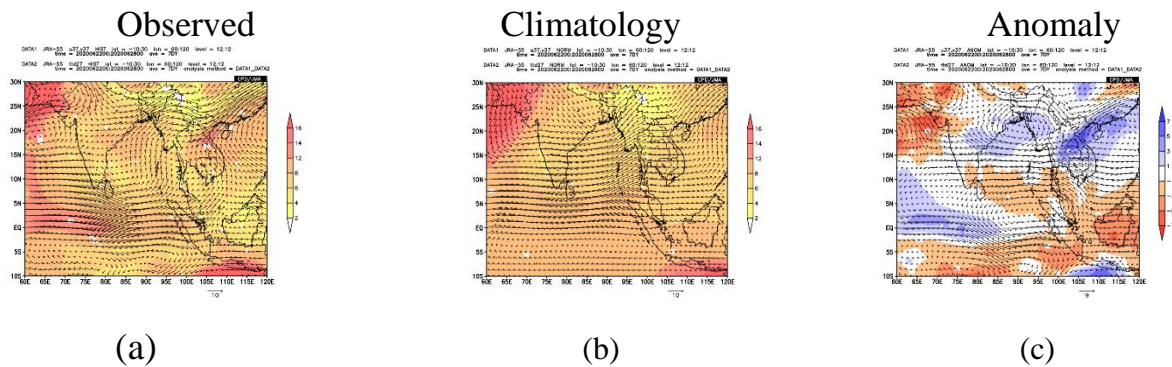


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Northeasterly to Easterly (05-10kts) winds were prevailed during the first two days of the week and it was changed to Southerly to Southwesterly (05-10kts) 10th July onwards except of 12th July where it was Northwesterly to Northerly on only.

The weekly observed (Figure 6.a) winds were Northwesterly to westerly over the island and Northwest-Southeast oriented trough axis was to the Northeast of Sri Lanka at 500hpa during this week. The climatological wind pattern is westerly (Figure 6.b) as well. However, slightly dry Northwesterly wind anomaly (Figure 6.c) was prevailed over western parts of the Island at 500hpa during this week.

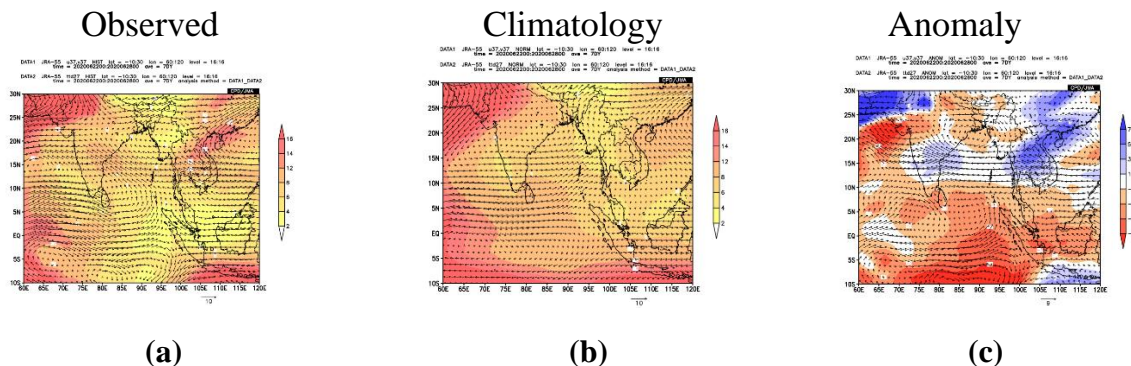


Figure 6: wind pattern with dewpoint departures at 500hpa