

Weekly Weather Summary

01-07 June 2020

1. Rainfall

Southwesterly wind flow was disturbed due to formation of two cyclone which are in the Bay of Bengal (Amphan) and Arabian sea (Nisarga). Southwest monsoon establishment was delay due to cyclone “Nisarga” which was located in Arabian sea on 01st to 04th June. However, mild or moderate pressure gradient was changed as very steep on 06th. Rainy condition was started in southwestern parts and Puttalam and Kurunegala diatricts after 05th onwards. Light to moderate or moderate showers had been reported in Kany and Nuwara Eliya districts including catchment areas particularly on 06th and 07th.

Highest daily (24 hour) rainfall, 84.0mm was reported from Kamalashram (Kurunegala district) on 05th June. Highest weekly total rainfall, 115.1mm was reported at Lakshapana during this week.

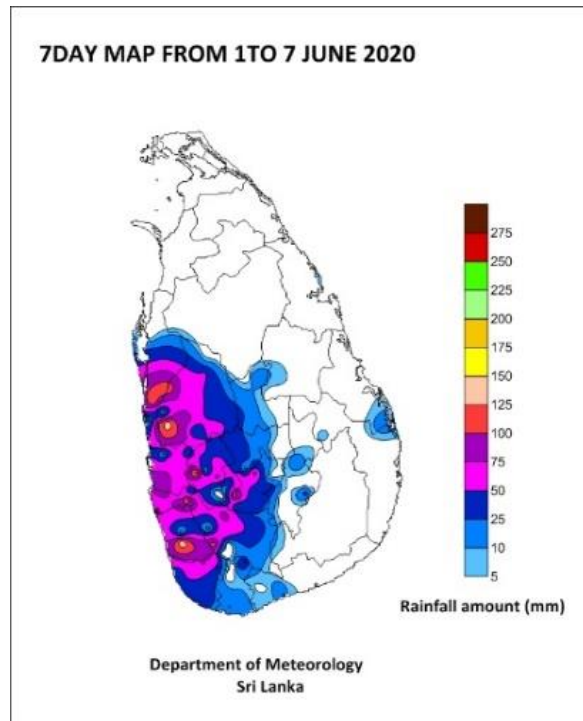


Figure 1: Total rainfall (mm) during the week

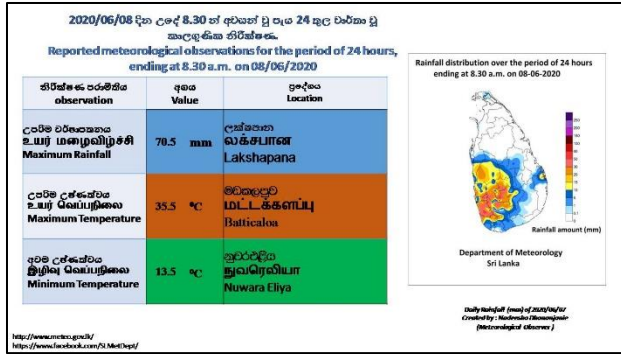
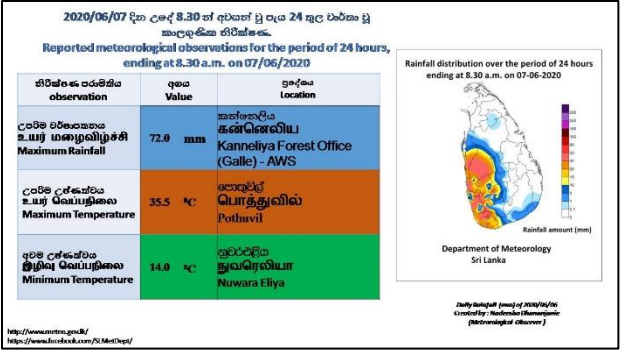
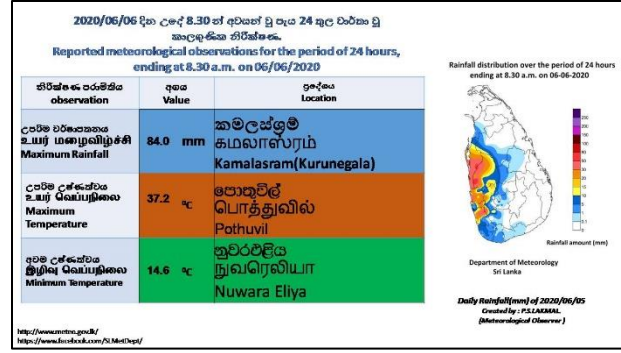
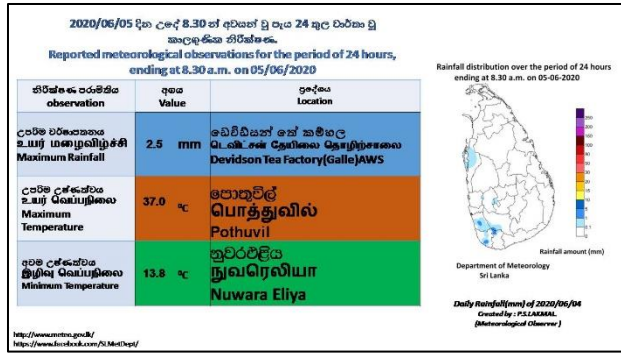
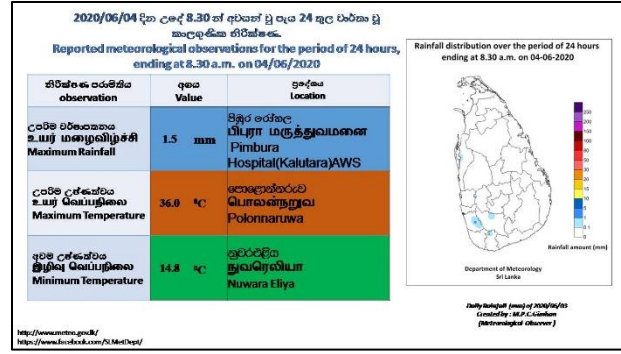
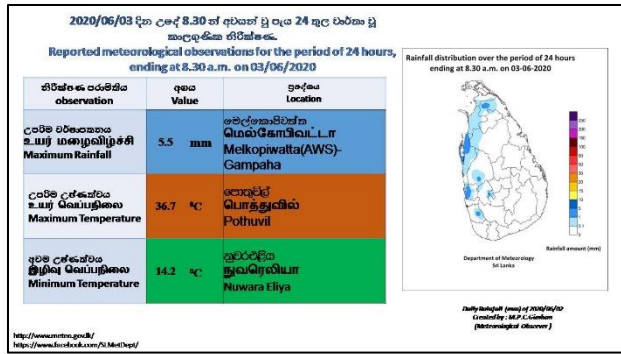
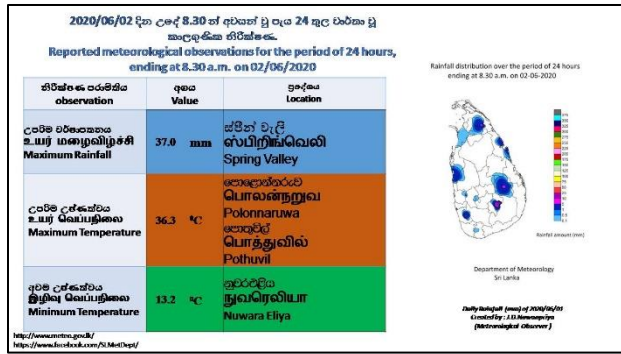


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (⁰C) during the week

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.7
Badulla	1.4
Bandarawela	3.9
Batticaloa	0
Colombo	69.2
Galle	27.6
Hambanthota	1.2
Jaffna	0
Monaragala	0.2
Katugasthota	24
Katunayake	63
Kurunagala	69.8
MahaIlluppallama	1.7
Mannar	0.7
Polonnaruwa	0.2
NuwaraEliya	25.8
Pothuvil	0
Puttalam	38.9
Rathmalana	61.8
Rathnapura	56.1
Trincomalee	9.9
Vavuniya	0.6
Mattla	3.1

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	70
Norton	100.6
Maussakele	59
Canyon	83.5
Lakshapana	115.1
Upper Kotmale	43.7
Kotmale	51.4
Victoriya	16.9
Randenigala	4.5
Rantambe	3.8
Bowatenna	14.1
Ukuwela	15.1
Samanala Wawa	22
Kukuleganaga	113
Maskeliya	19
Neboda	NA

Other rainfall stations	Rainfall (mm)
Halwathura Estate (Kalutara)	153.5
Keselhenawa Police Station (Kalutara)	126.5
Karandana Dammulla Sampath Tea Factory (Kalutara)	126
W.K.K. Engineering, Hanwella	114.5
Vogan Estate (Matugama)	113.5
WKK Lanka Co (PVT) Ltd (Oddusudaan)	111.5
NARA (Colombo)	110.5

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, 37.2 °C was reported from Potuvil on 05th June. Further, except of 01st, 03rd and 07th daily highest maximum temperature was reported at Potuvil where it was Polonnaruwa (01st & 03rd) and Batticaloa respectively (Figure 3.a). Nuwara Eliya was reported its highest maximum temperature 23.4°C, on 01st.

Above normal maximum temperatures were reported at all most all stations till 05th. And below normal maximum temperatures were reported at many stations on 06th. Weekly highest maximum temperature positive anomaly, 4.5°C reported at Nuwara Eliya on 01st. And highest maximum temperature negative anomaly, 3.9°C at Maha-Iluppallama on 06th.

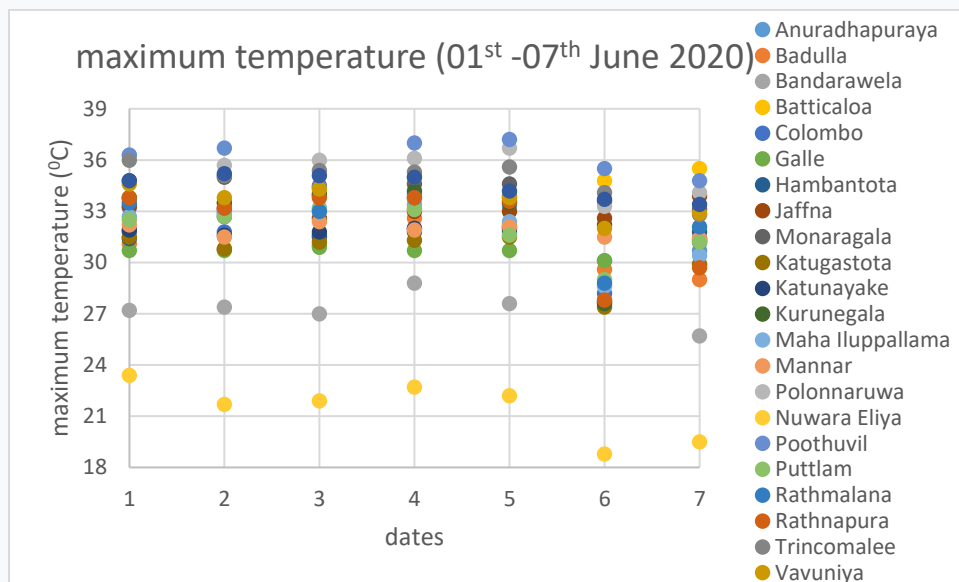


Fig 3.a: maximum temperature

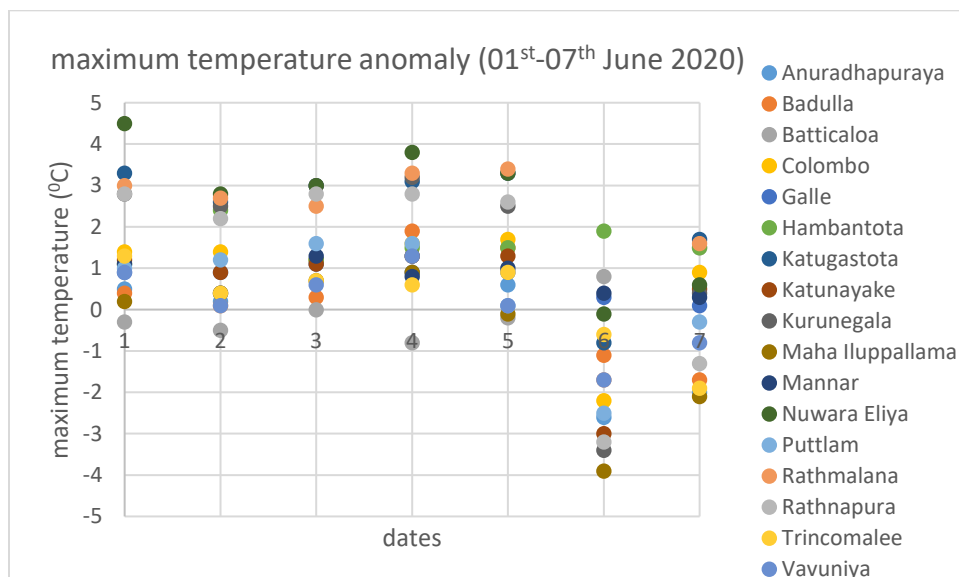


Fig 3.b: maximum temperature anomaly

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 13.2 °C was reported as usual from Nuwara-Eliya station on 02nd June. The weekly highest minimum temperature 28.7 °C, was reported at Jaffna on 01st (Fig 3.c) and it was more than 28.0°C throughout the week. Highest minimum temperature positive anomaly 3.0 °C was reported at Galle (Fig 3.d) on 05th. Highest minimum temperature negative anomaly 3.3 °C was reported at Badulla on 03rd. Batticaloa, Hambantota, Galle, Nuwara Eliya and Vavuniya had been reported above normal minimum temperature throughout this week.

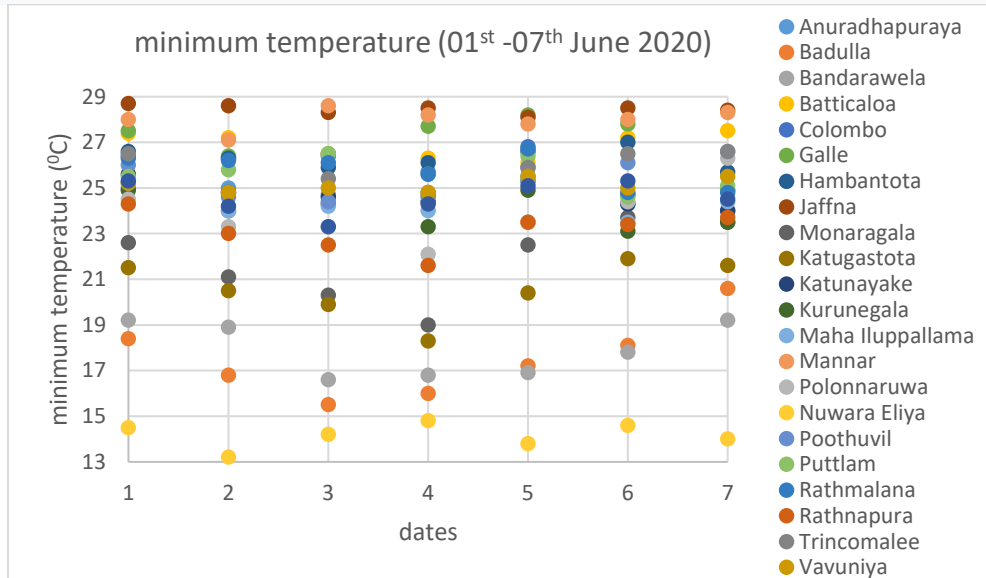


Fig 3.c: minimum temperature

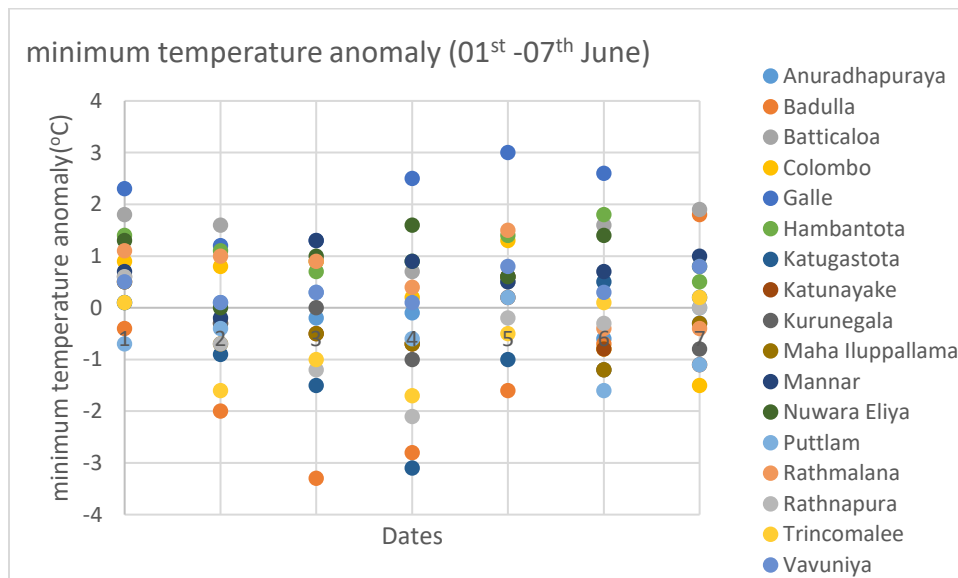


Fig 3.d: anomaly of minimum temperature

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:

Except of 07th Southwesterly (05-10 kts) winds were prevailed over the Island throughout the week which was westerly(10-15kts).

Southwesterly 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. There was westerly dry wind anomaly (Figure 4.c) over northern part of country. Easterly moist wind anomaly over southeastern parts and similar climatological conditions over elsewhere at 850hpa during this week.

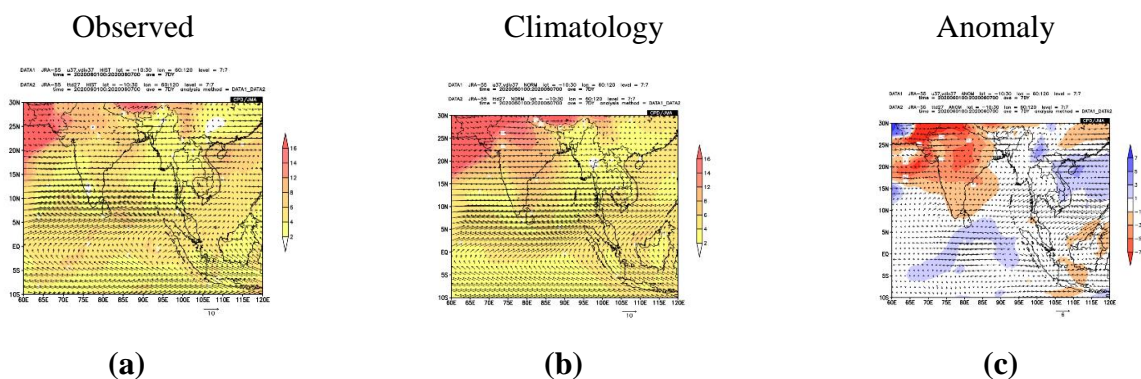


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Southwesterly winds (05-10kts) were changed as west-southwesterly (10-25kts) 06th onwards. There were some convergence in western areas on 06th.

Weekly averaged Observed winds were dry, westerly (Figure 5.a) and dry, northwesterly to westerly climatological (Figure 5.b) winds are prevailed at 700hPa level during this week. Easterly moist wind anomaly (Figure 5.c) was prevailed over the southern part of the country at 700hpa. Westerly dry wind anomaly was prevailed over the Jaffna area during this week as well.

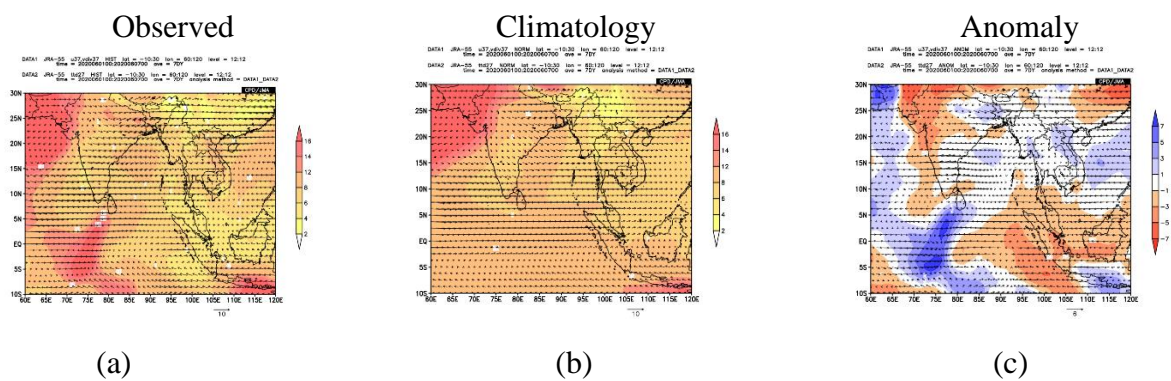


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper winds at 500hPa:

Southeasterly (05-10kts) winds were prevailed at the beginning of the week and it was changed to northerly (05-10kts) on 05th. Mild circulation was prevailed to the west of Sri Lanka on 06th. Westerly wind convergence had been over the west of Sri Lanka at 500hpa on 07th.

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

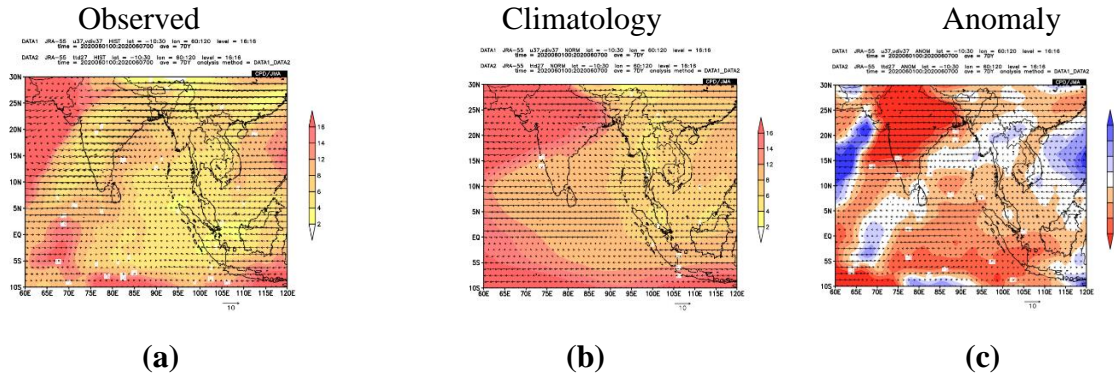


Figure 6: wind pattern with dewpoint departures at 500hpa