Weekly Weather Summery

15 -21 June 2020

1. Rainfall

Southwest monsoon conditions were continued over the country, but Southwestern wind flow was not much stronger during this week. However, Southwesterly pressure gradient was prevailed over the country. Moderate to fairly heavy and moderate rainfalls were received at Southwestern region on 16th and 17th June respectively. The highest daily recorded rainfall 52.5mm, was reported at Kanneliya (Galle district) on 16th as well. Many stations of Colombo and Galle districts had been reported moderate showers on 16th. Afternoon thunder showers were received in the Eastern and Uva provinces and Anuradhapura and Jaffna districts while some showers were continued at Southwestern region, in the later part of the week. However, there was no considerable rainfall had been reported during this week.

Light to moderate or light showers were reported at Hydro-catchment areas throughout the week. Highest weekly total rainfall 89.3mm, was received at Poddiwela farm (Galle district).

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

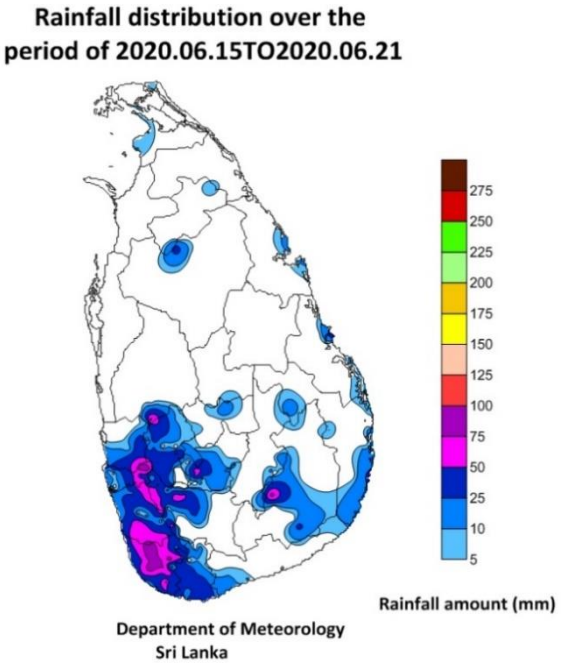
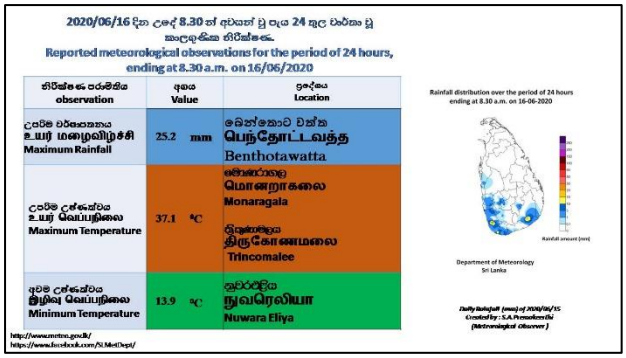
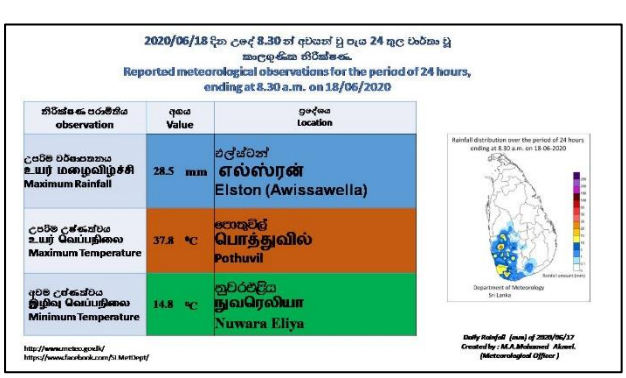


Figure 1: Total rainfall (mm) during the week


2020/06/16 දින උදේ 8.30 න් අවසන් වූ පැය 24 තුල වර්ෂා වූ කාලගුණික නිරීක්ෂණ.
Reported meteorological observations for the period of 24 hours, ending at 8.30 a.m. on 16/06/2020

නිරීක්ෂණ පරාමිතිය observation	අගය Value	ප්‍රදේශය Location
උපරිම වර්ෂාපතනය உயர் மழைவிழ்ச்சி Maximum Rainfall	25.2 mm	බෙන්තොට වත්ත பெந்தோட்டவத்த Benthotawatta
උපරිම උෂ්ණත්වය உயர் வெப்பநிலை Maximum Temperature	37.1 °C	මොනරාගල මොனராகலை Monaragala / ත්‍රිකුණාමලය திருகோணமலை Trincomalee
අවම උෂ්ණත්වය தாழ் வெப்பநிலை Minimum Temperature	13.9 °C	නුවරඑළිය நுவரெலியா Nuwara Eliya

Rainfall distribution over the period of 24 hours ending at 8.30 a.m. on 16-06-2020


2020/06/17 දින උදේ 8.30 න් අවසන් වූ පැය 24 තුල වර්ෂා වූ කාලගුණික නිරීක්ෂණ.
Reported meteorological observations for the period of 24 hours, ending at 8.30 a.m. on 17/06/2020

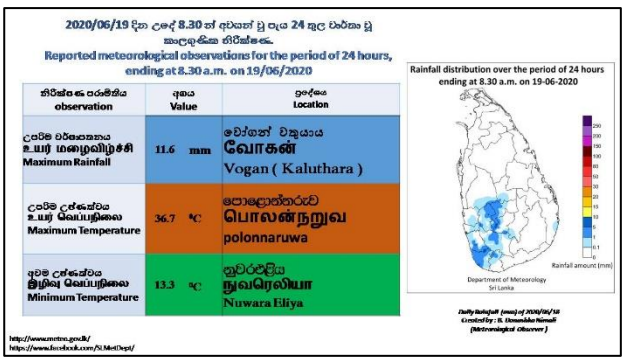
නිරීක්ෂණ පරාමිතිය observation	අගය Value	ප්‍රදේශය Location
උපරිම වර්ෂාපතනය உயர் மழைவிழ்ச்சி Maximum Rainfall	52.5 mm	කන්නෙලිය Kanneliya කණ්නේලියා(Galle)
උපරිම උෂ්ණත්වය உயர் வெப்பநிலை Maximum Temperature	35.7 °C	පොළොන්නරුව பொலன்நறுவ Polonnaruwa / පොතුවිල් பொத்துவில் Pothuvil
අවම උෂ්ණත්වය தாழ் வெப்பநிலை Minimum Temperature	13.9 °C	නුවරඑළිය நுவரெலியா Nuwara Eliya

Rainfall distribution over the period of 24 hours ending at 8.30 a.m. on 17-06-2020

2020/06/18 දින උදේ 8.30 න් අවසන් වූ පැය 24 තුල වර්ෂා වූ කාලගුණික නිරීක්ෂණ.
Reported meteorological observations for the period of 24 hours, ending at 8.30 a.m. on 18/06/2020

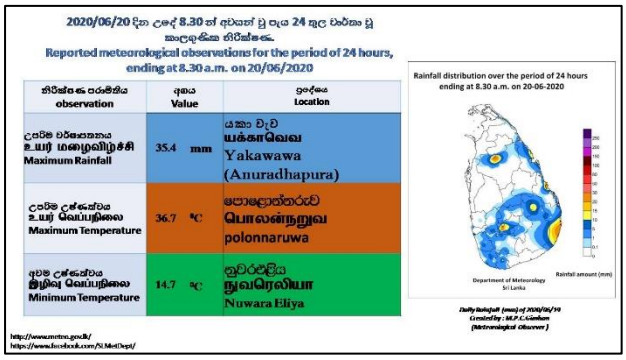
නිරීක්ෂණ පරාමිතිය observation	අගය Value	ප්‍රදේශය Location
උපරිම වර්ෂාපතනය உயர் மழைவிழ்ச்சி Maximum Rainfall	28.5 mm	එල්ස්ටන් එල්ස්රන් Elston (Awissawella)
උපරිම උෂ්ණත්වය உயர் வெப்பநிலை Maximum Temperature	37.8 °C	පොතුවිල් பொத்துவில் Pothuvil
අවම උෂ්ණත්වය தாழ் வெப்பநிலை Minimum Temperature	14.8 °C	නුවරඑළිය நுவரெலியா Nuwara Eliya

Rainfall distribution over the period of 24 hours ending at 8.30 a.m. on 18-06-2020


2020/06/19 දින උදේ 8.30 න් අවසන් වූ පැය 24 තුල වර්ෂා වූ කාලගුණික නිරීක්ෂණ.
Reported meteorological observations for the period of 24 hours, ending at 8.30 a.m. on 19/06/2020

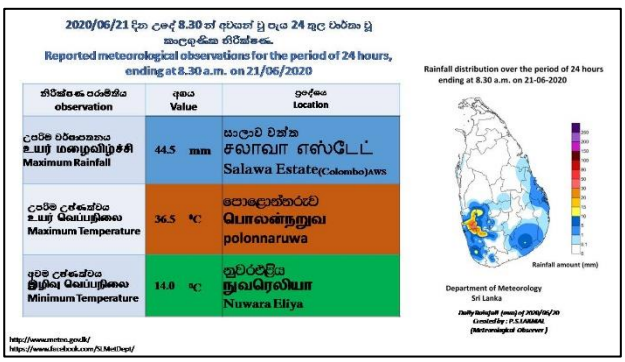
නිරීක්ෂණ පරාමිතිය observation	අගය Value	ප්‍රදේශය Location
උපරිම වර්ෂාපතනය உயர் மழைவிழ்ச்சி Maximum Rainfall	11.6 mm	වෝගන් වකුයාය වோகன் Vogan (Kaluthara)
උපරිම උෂ්ණත්වය உயர் வெப்பநிலை Maximum Temperature	36.7 °C	පොළොන්නරුව பொலன்நறுவ polonnaruwa
අවම උෂ්ණත්වය தாழ் வெப்பநிலை Minimum Temperature	13.3 °C	නුවරඑළිය நுவரெலியா Nuwara Eliya

Rainfall distribution over the period of 24 hours ending at 8.30 a.m. on 19-06-2020


2020/06/20 දින උදේ 8.30 න් අවසන් වූ පැය 24 තුල වර්ෂා වූ කාලගුණික නිරීක්ෂණ.
Reported meteorological observations for the period of 24 hours, ending at 8.30 a.m. on 20/06/2020

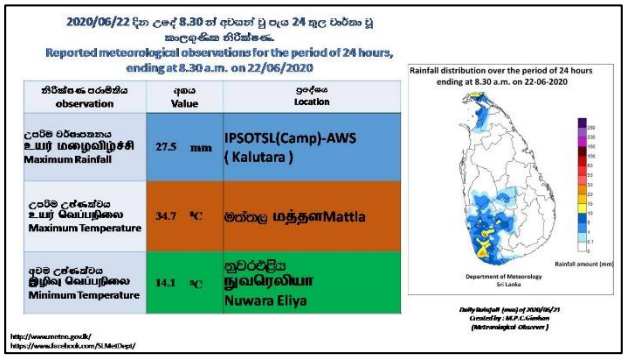
නිරීක්ෂණ පරාමිතිය observation	අගය Value	ප්‍රදේශය Location
උපරිම වර්ෂාපතනය உயர் மழைவிழ்ச்சி Maximum Rainfall	35.4 mm	යකා වැව யக்காவெவ Yakawawa (Anuradhapura)
උපරිම උෂ්ණත්වය உயர் வெப்பநிலை Maximum Temperature	36.7 °C	පොළොන්නරුව பொலன்நறுவ polonnaruwa
අවම උෂ්ණත්වය தாழ் வெப்பநிலை Minimum Temperature	14.7 °C	නුවරඑළිය நுவரெலியா Nuwara Eliya

Rainfall distribution over the period of 24 hours ending at 8.30 a.m. on 20-06-2020


2020/06/21 දින උදේ 8.30 න් අවසන් වූ පැය 24 තුල වර්ෂා වූ කාලගුණික නිරීක්ෂණ.
Reported meteorological observations for the period of 24 hours, ending at 8.30 a.m. on 21/06/2020

නිරීක්ෂණ පරාමිතිය observation	අගය Value	ප්‍රදේශය Location
උපරිම වර්ෂාපතනය உயர் மழைவிழ்ச்சி Maximum Rainfall	44.5 mm	සලාවා වත්ත சலாவா எஸ்டேட் Salawa Estate(Colombo)AWS
උපරිම උෂ්ණත්වය உயர் வெப்பநிலை Maximum Temperature	36.5 °C	පොළොන්නරුව பொலன்நறுவ polonnaruwa
අවම උෂ්ණත්වය தாழ் வெப்பநிலை Minimum Temperature	14.0 °C	නුවරඑළිය நுவரெலியா Nuwara Eliya

Rainfall distribution over the period of 24 hours ending at 8.30 a.m. on 21-06-2020


2020/06/22 දින උදේ 8.30 න් අවසන් වූ පැය 24 තුල වර්ෂා වූ කාලගුණික නිරීක්ෂණ.
Reported meteorological observations for the period of 24 hours, ending at 8.30 a.m. on 22/06/2020

නිරීක්ෂණ පරාමිතිය observation	අගය Value	ප්‍රදේශය Location
උපරිම වර්ෂාපතනය உயர் மழைவிழ்ச்சி Maximum Rainfall	27.5 mm	IPSOTSL(Camp)-AWS (Kalutara)
උපරිම උෂ්ණත්වය உயர் வெப்பநிலை Maximum Temperature	34.7 °C	මත්තල மத்தளMattla
අවම උෂ්ණත්වය தாழ் வெப்பநிலை Minimum Temperature	14.1 °C	නුවරඑළිය நுவரெலியா Nuwara Eliya

Rainfall distribution over the period of 24 hours ending at 8.30 a.m. on 22-06-2020

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

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.0
Badulla	0.0
Bandarawela	1.7
Batticaloa	0.0
Colombo	13.4
Galle	17.1
Hambanthota	0.8
Jaffna	0.1
Monaragala	31.7
Katugasthota	4.7
Katunayake	1.2
Kurunagala	1.1
Maha Illuppallama	0.0
Mannar	0.0
Polonnaruwa	0.0
Nuwara Eliya	7.5
Pothuvil	30.3
Puttalam	0.1
Rathmalana	15.0
Rathnapura	68.3
Trincomalee	22.3
Vavuniya	0.0
Mattla	0.0

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	30.0
Norton	54.6
Maussakele	23.0
Canyon	57.9
Lakshapana	45.2
Upper Kotmale	20.3
Kotmale	6.2
Victoriya	0.0
Randenigala	0.0
Rantambe	0.0
Bowatenna	0.0
Ukuwela	6.3
Samanala Wawa	0.0
Kukuleganaga	60.0
Maskeliya	15.5

Other Rainfall Stations	
Station	Rainfall (mm)
Poddiwela Farm	89.3
Elston	76.5
Watawala	72.1
Thalangaha Estate	66.8
Benthotawatta	65.9
Vogan	57.4
Hiniduma	55.0
Port Authority	45.5
Kirindiwela	41.3
Wevalthalawa	41.3

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

2. Temperature

The highest day time (maximum) temperature, 37.8 ^{0}C was reported from Potuvil main meteorological station on 17th June and further daily highest maximum temperature were reported same station on 16th (Figure 3.a). Except of 15th, 17th and 21st, daily highest maximum temperature was reported at Polonnaruwa. Daily highest maximum temperature was reported at Monaragala/Trincomalee and Mattala on 15th and 21st respectively. Nuwara Eliya was reported its highest maximum temperature 21.3^{0}C, on 19th.

Except of 21st, above normal maximum temperatures were reported in many stations during this week (fig 3.b). Weekly highest maximum temperature positive anomaly 5.3^{0}C, was reported at Hambantota on 15th. Above normal maximum temperatures were reported throughout the week at Colombo, Hambantota, Vavuniya, Nuwara-Eliya, Mannar and Rathmalana meteorological stations.

The lowest minimum temperature was 13.3^{0}C and it was reported as usual from Nuwara-Eliya station on 15th and 19th June. The highest minimum temperature 28.7^{0}C, was reported at Mannar on 21st and same station had been reported more than 27.0^{0}C minimum temperatures throughout the week (Fig 3.c). Except of a few stations, all in all stations had been reported above normal minimum temperatures throughout the week (Fig 3.d).

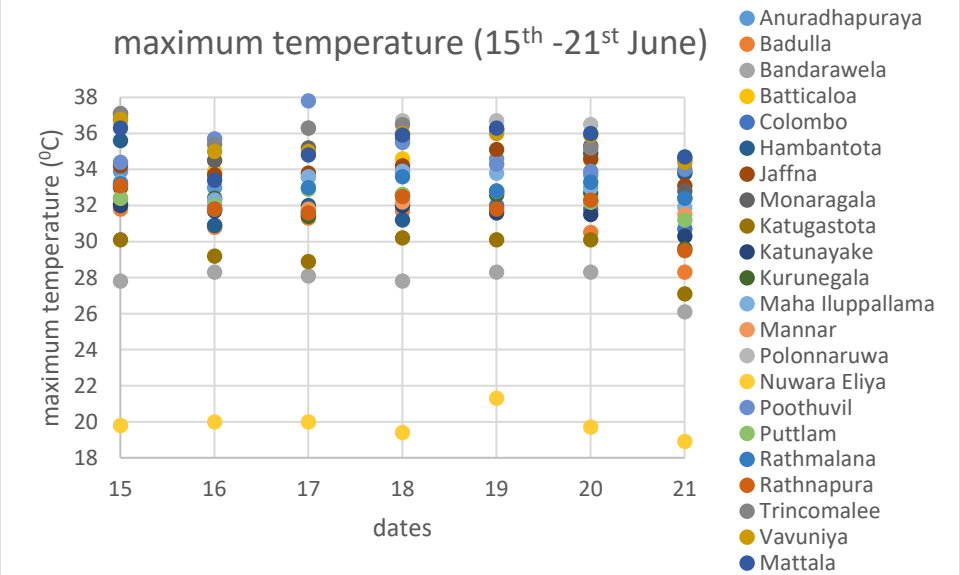


Fig 3.a: maximum temperature

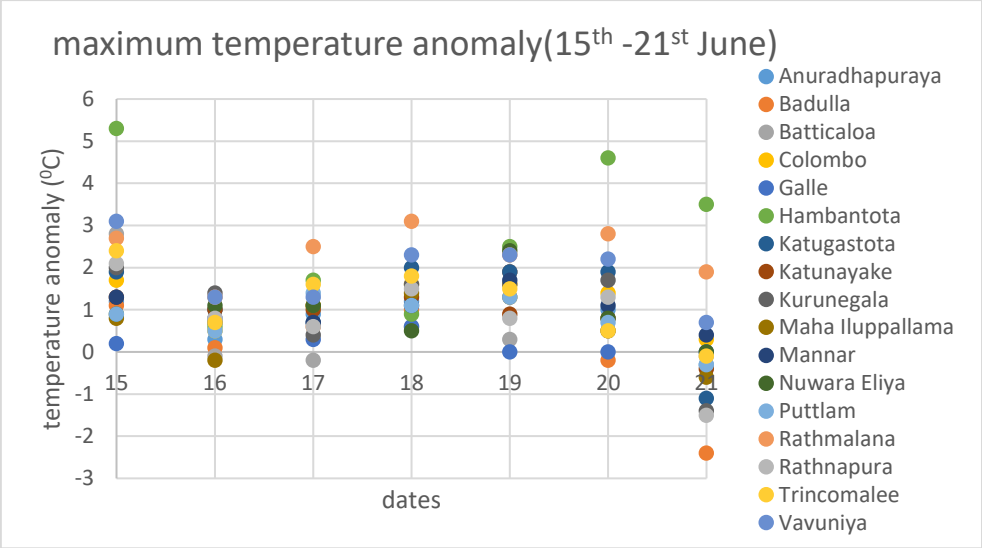


Fig 3.b: maximum temperature anomaly

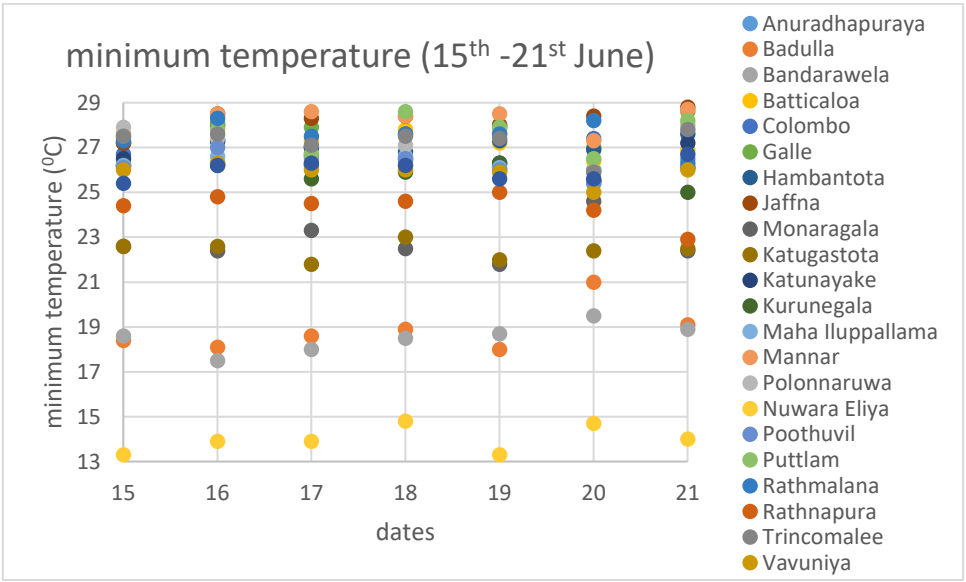


Fig 3.c: minimum temperature

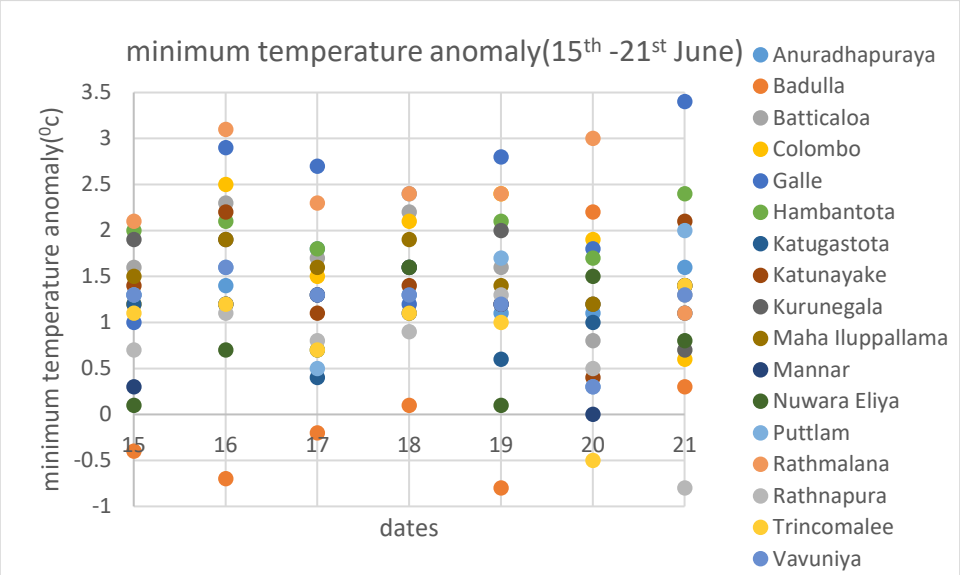


Fig 3.d: anomaly of minimum temperature

Figure 3. Maximum and minimum temperatures (^{0}C) and offsets (^{0}C) during the week

3. Wind

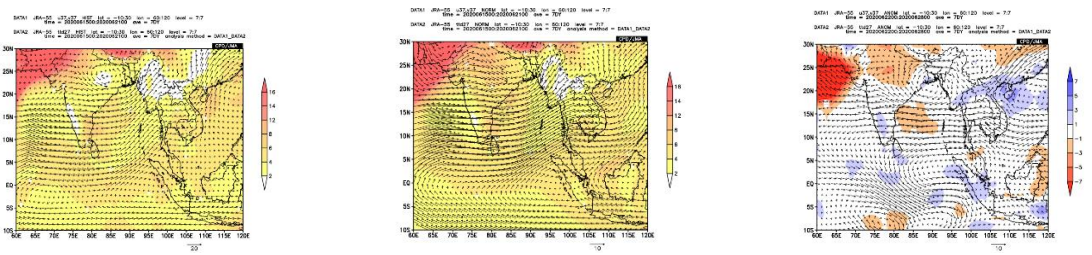
Light to moderate or moderate southwesterly surface winds were prevailed during this week.

Upper winds at 850hPa:

Northwesterly to Westerly (10-20 kts) winds were prevailed over the Island at the beginning and it was changed to Northwesterly 19th onwards.

Northwesterly to westerly weekly average winds were prevailed over the island (Figure 4.a) at 850hpa during this week. 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.

Observed Climatology Anomaly



(a) **(b)** **(c)**

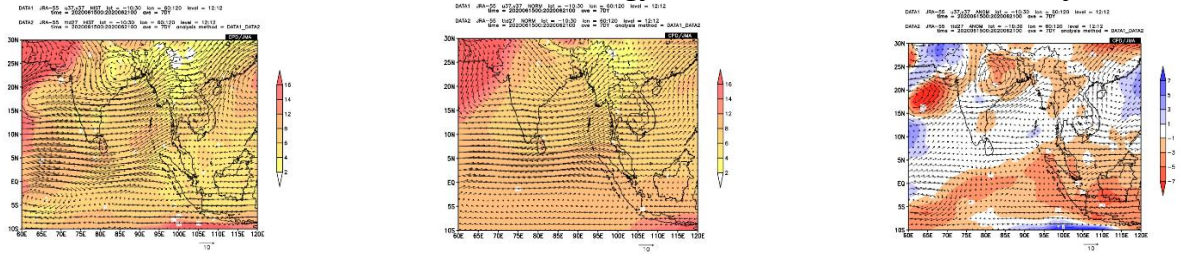
Figure 4: wind pattern with dewpoint departures at 850hpa

Upper winds at 700hPa:

Prevailed Northwesterly winds (10-15kts) were changed as westerly on 16th over the Island. And, there was northwest-southeast oriented trough axis over the Island on 17th. Winds were changed to Northwesterly 19th onwards at 700hpa.

Weekly averaged Observed winds were Northwesterly (Figure 5.a) and North-northwesterly dry climatological (Figure 5.b) winds are prevailed at 700hPa level during this week. And Easterly wind anomaly (Figure 5.c) with similar moisture content was prevailed over the country at 700hpa.

Observed Climatology Anomaly



(a) (b) (c)

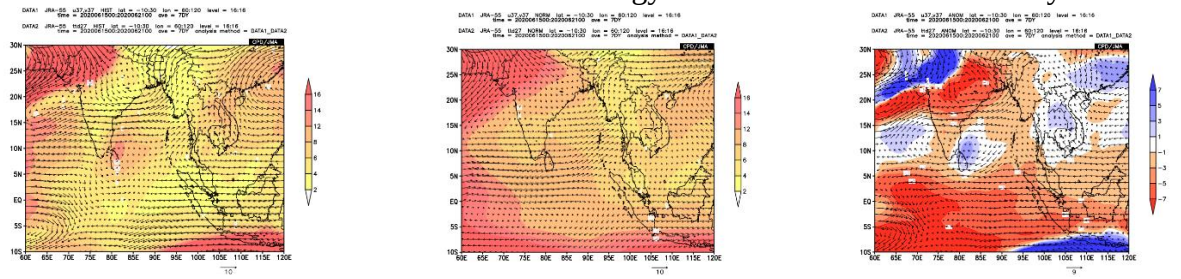
Figure 5: wind pattern with dewpoint departures at 700hpa

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 (05-10kts) on 17th. Light Southwesterly to westerly winds and mild circulation was prevailed to the Southeast of Sri Lanka on 18th. There was southwest-northeast oriented trough axis over the Island on 19th and gradually it had moved to the northwest ward and then northeasterly winds were prevailed over the country.

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

Observed Climatology Anomaly



(a) **(b)** **(c)**

Figure 6: wind pattern with dewpoint departures at 500hpa