

Weekly Weather Summary

01-07 July 2020

1. Rainfall

Generally low-level winds were Southwesterly and some spells of showers in Southwestern parts were prominent during this week. Afternoon thunder showers were reported in Eastern and Uva provinces on 2nd and Northern Province on 8th. Fairly wide spread rain over the southwestern part with fairly heavy showers at a few places were reported, particularly on 02th and 06th. However weak monsoon conditions were prevailed during this week.

Reported highest 24 hour rainfall was 74.2mm and it was reported from Vincit state, in Colombo district on 06th July. According to Disaster Management Center (situation report), One family was affected due to rainfall on 03rd at Yatinuwara in Kandy district. Two families were damaged due to strong winds at Udunuwarain Kandy district at the same day. According to the same report, drinking water scarcity has reported at Trincomalee, Hambantota, Kurunegala, Batticaloa, Pollonnaruwa and Mulativu districts due to lack of rainfall.

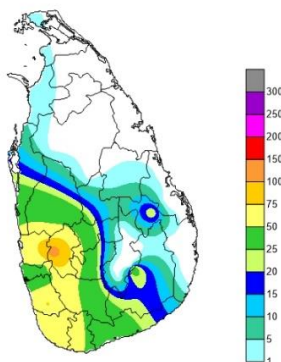


Figure 1: Total rainfall (mm) during the week

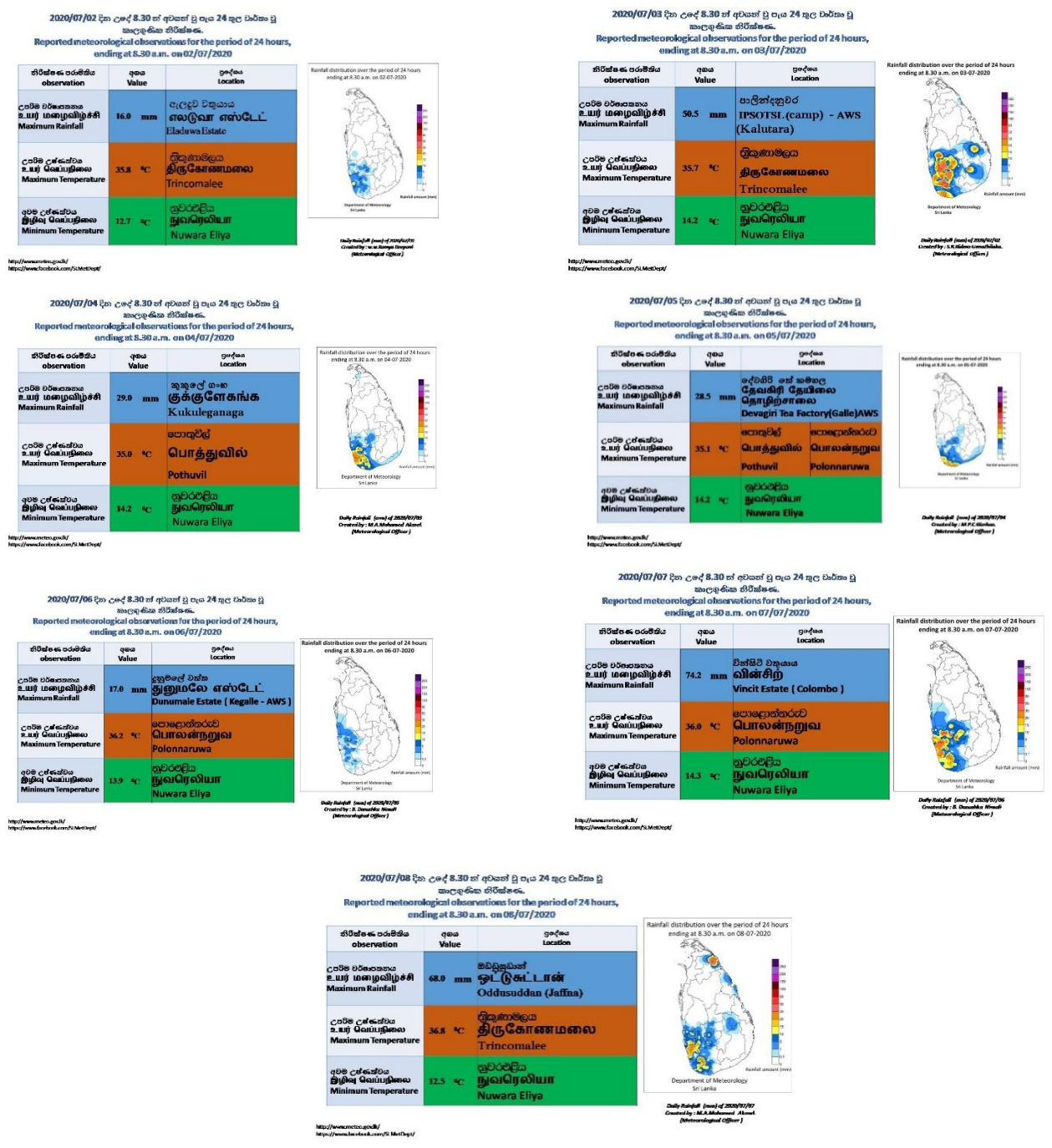


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (⁰C) during the week

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0
Badulla	0
Bandarawela	0
Batticaloa	0
Colombo	23
Galle	32.4
Hambanthota	0.3
Jaffna	0
Monaragala	0
Katugasthota	8.1
Katunayake	6.2
Kurunagala	2.5
MahaIlluppallama	0
Mannar	0
Polonnaruwa	0
NuwaraEliya	12.9
Pothuvil	0
Puttalam	0
Rathmalana	38.9
Rathnapura	44.1
Trincomalee	12.9
Vavuniya	0
Mattla	0

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)
Vincit Estate (Colombo)	117.7
Mathugama	76.6
Kalatuwawa	62.1
Polatagama	60.0
Ports Authority	53.9
Angoda	49.7

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

2. Temperature

The highest day time (maximum) temperature, 36.8⁰C was reported from Trincomalee main meteorological station on 07th July, and further same station was reported daily highest maximum temperature on 01st and 02nd (Figure 3.a). Potuvil and Polonnaruwa were reported highest maximum temperature during the other days. The highest maximum temperature reported from Nuwara Eliya was 21.5⁰C on 02nd which is 3⁰C above normal (Figure 3.b).

The maximum temperature was above normal in many stations except of 03rd and 04th July (Figure 3.b). Bandarawela, Batticaloa, Colombo, Galle, Hambantota, Jaffna, Katugastota, Katunayake, Kurunegala, Mannar, NuwaraEliya, Puttalam, rathmalana and Mahailuppallama was reported above normal maximum temperatures thought the week.

The lowest minimum temperature was 12.7⁰C and it was reported as usual from Nuwara-Eliya station on 02nd July (Figure 3.c). The minimum temperature was mainly above normal at many stations while few stations were reported slightly below normal minimum temperatures in few days during this week (Figure 3.d).

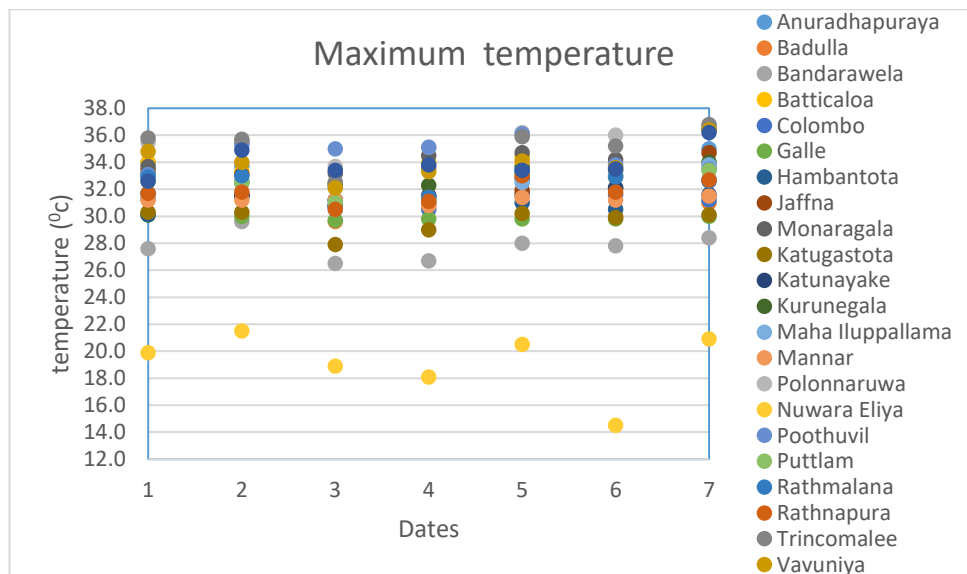


Figure 3.a

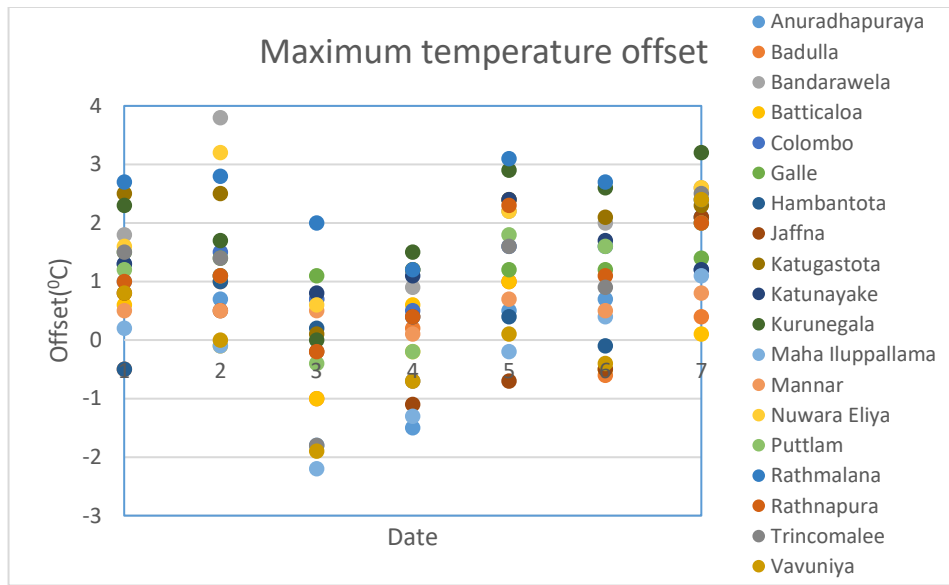


Figure 3.b

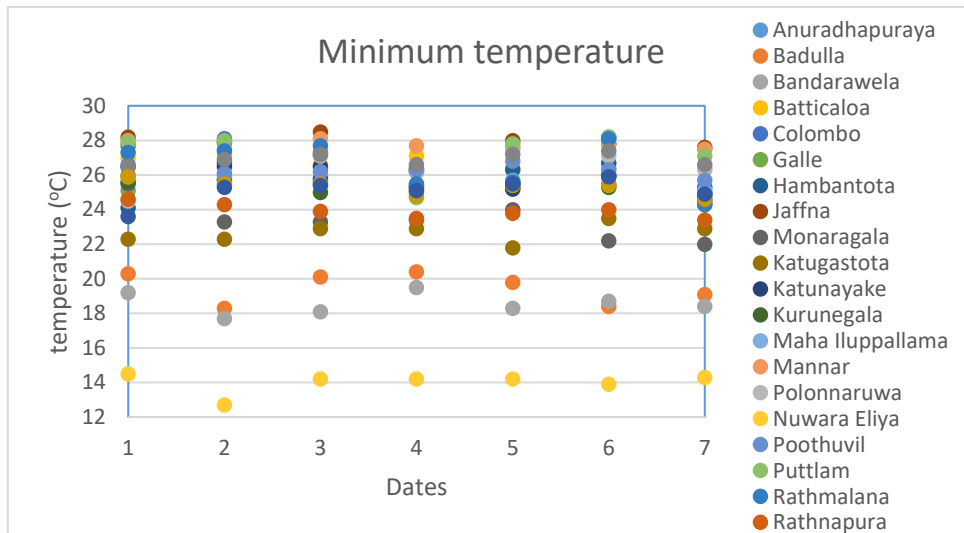


Figure 3.c

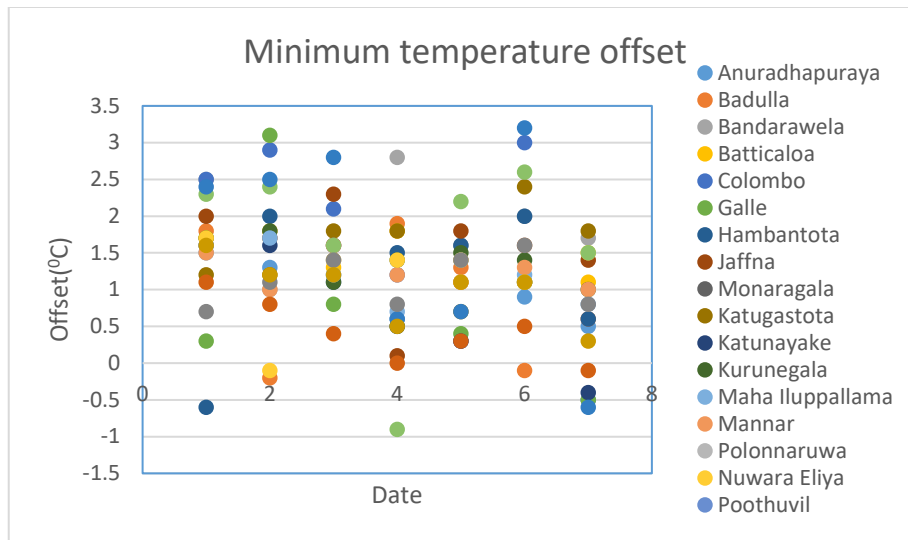


Figure 3.d

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

3. Wind

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

Upper winds at 850hPa:

Westerly to Southwesterly winds were prevailed over the Island except on 07th July where it was Northwesterly. Weekly average wind condition was north westerly to westerly over the island (Figure 4.a) during this week. Climatological (Figure 4.b) wind pattern was westerly at 850hPa pressure level. There was Southeasterly wind anomaly (Figure 4.c) during this week.

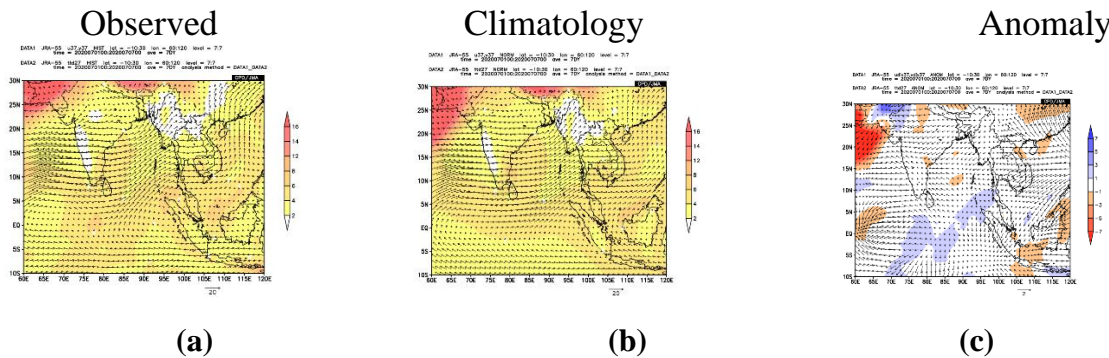


Figure 4: wind pattern with dew point departures at 850hpa

Upper winds at 700hPa:

North westerly to westerly (10-15kts) winds were over the Island during the first part of the week and it was changed to the Southwesterly (15-25kts) 05th July onwards. Weekly averaged Observed Northwesternly (Figure 5.a) and climatological Northwesternly (Figure 5.b) winds at 700hPa level were dry over the island. There was North northeasterly wind anomaly (Figure 5.c) at 700hpa during this week.

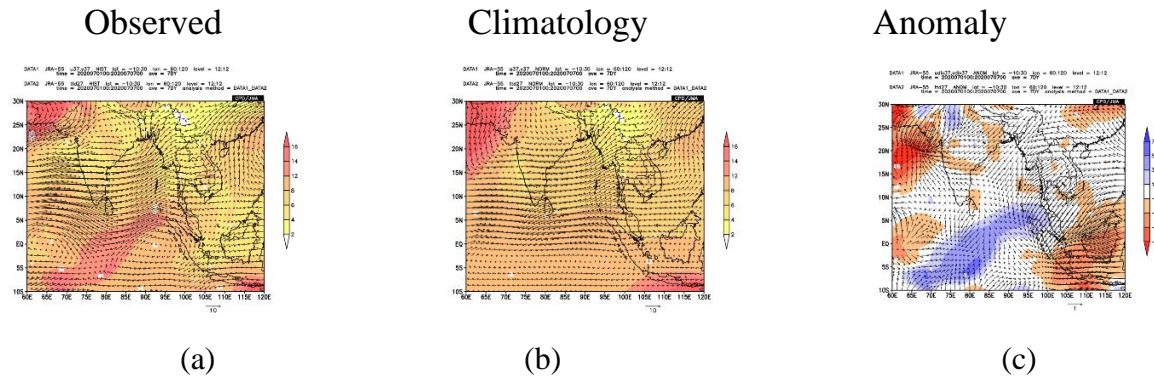


Figure5: wind pattern with dew-point departures at 700hpa

Upper winds at 500hPa:

Westerly to Southwesterly (10-20kts) winds were over the Island during the first part of the week and it was changed to the Northeasterly (05-10kts) 06th July onwards. The weekly climatological wind pattern is North-westerly to westerly (Figure 6.b) and weekly observed wind pattern (Figure 6.a) was westerly to Southwesterly at 500hpa. However, easterly dry wind anomaly (Figure 6.c) was at 500hpa during this week.

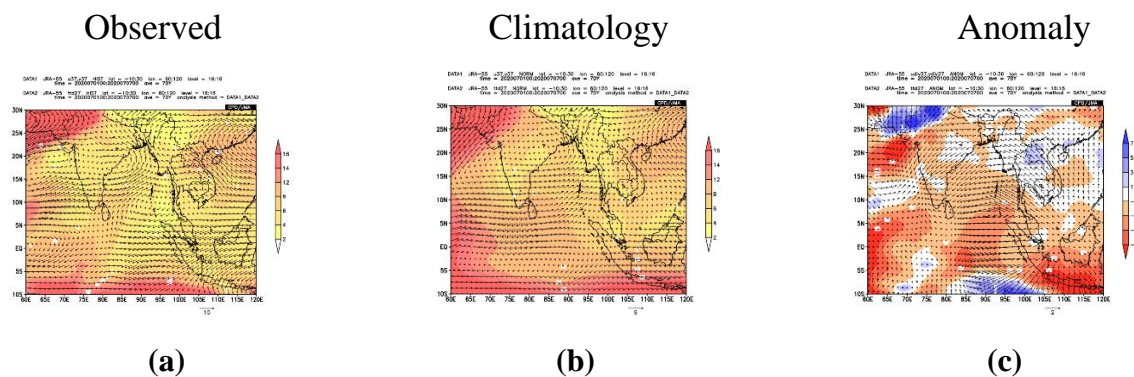


Figure 6: wind pattern with dew-point departures at 500hpa