Weekly Weather Summery

01-07 July 2021

1. Rainfall

Southwest monsoon conditions were continued during this week too. Some showers were reported from Western, Sabaragamuwa and Central provinces and Gale and Matara districts. Kaluthra and Galle districts had received more rainfall during this week. Further, fairly heavy to heavy with Isolated very heavy rainfall had reported from Southwest quarter on 01st July as well as 04th July. Moderate to fairly heavy showers with Isolated heavy showers had reported from Central, North-Central and North-Western parts on 05th July.

Moderate to fairly heavy rainfall had reported from Hambantota district on 01st July too. Light to moderate or moderate showers had reported from Gampaha on 01st July. And light or light to moderate showers had reported throughout the week in Gampaha as well. Moderate to fairly heavy with isolated heavy showers had reported from Colombo and Kaluthra districts on 01st and 04th. Light to moderate or moderate showers had reported throughout the week in these areas .

Scattered afternoon thunder showers were reported from Uva, North-Central and Northern provinces on 04th July. Isolated afternoon thunder showers had reported from Monaragala, Mulativu and Batticaloa districts on 01st , 06th and 07th July.

Light to moderate or moderate showers had been reported at many stations from hydro catchment areas on 01st, 04th and 05th July. Further, Isolated heavy showers had reported on 05th July.

Highest daily (24 hour) rainfall, 170.6 mm was reported from Vogan estate (Kaluthara district) on 01st July. Highest weekly total rainfall, 391.8 mm was reported from Mathugama farm (Kaluthara district) rain gauge during this week.

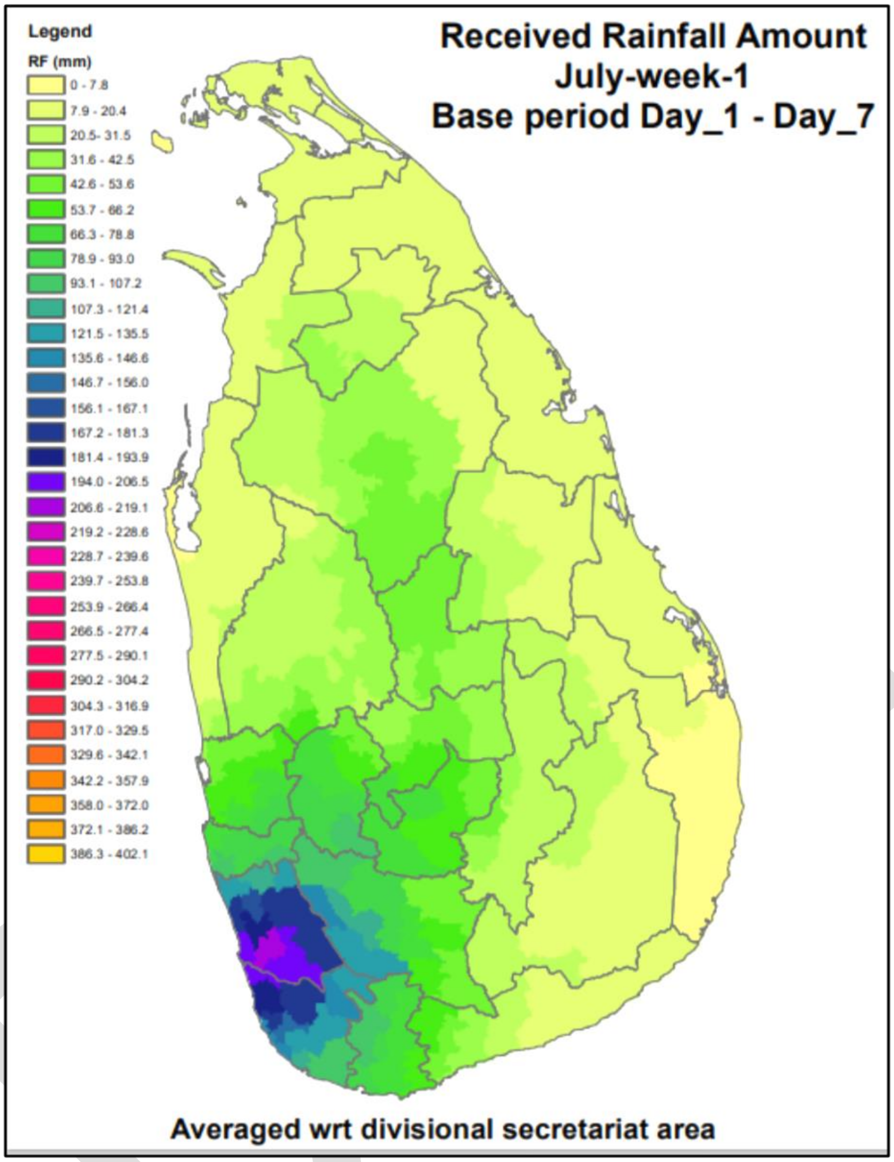


Figure 1: Total rainfall (mm) during the week

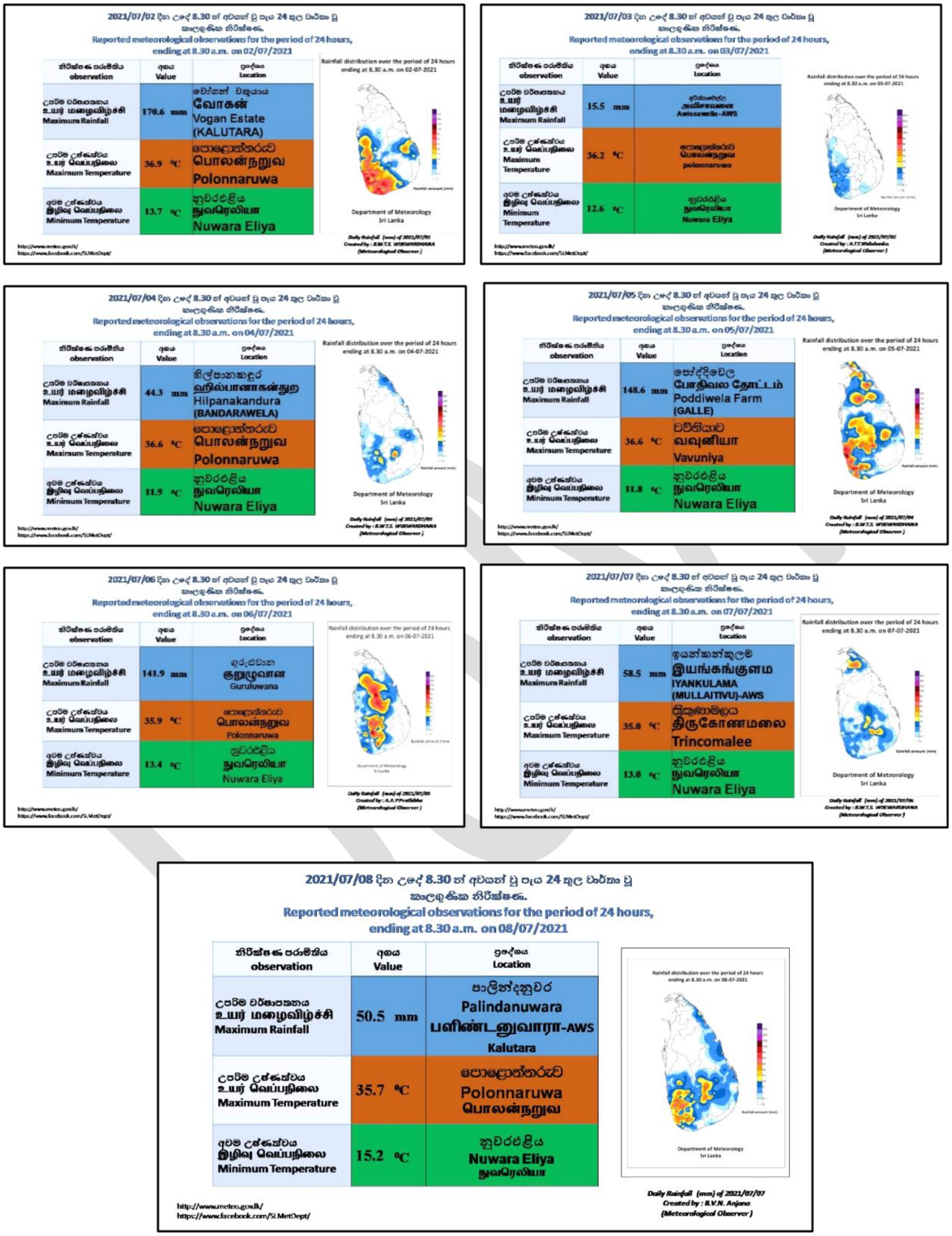


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (^{0}C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	45.8
Badulla	12.5
Bandarawela	1.0
Batticaloa	8.9
Colombo	51.5
Galle	48.8
Hambanthota	20.8
Jaffna	1.3
Monaragala	0.2
Katugasthota	39.3
Katunayake	27.6
Kurunagala	43.3
MahaIlluppallama	19.5
Mannar	0.0
Polonnaruwa	16.9
Nuwara Eliya	35.6
Pothuvil	4.5
Puttalam	2.5
Rathmalana	53.9
Rathnapura	91.2
Trincomalee	16.5
Vavuniya	1.7
Mattala	4.9

Hydro-Catchment Areas	
Station	**Rainfall (mm)**
Castlereigh	48.5
Norton	102.5
Maussakele	31.5
Canyon	40.2
Laksapana	145.3
Upper kotmalee	59.0
Kotmalee	93.6
Victoriya	86.0
Randenigala	31.8
Rantambe	42.5
Bowatenna	41.8
Ukuwela	29.0
Samanala Wewa	41.5
Kukuleganga	94.0
Maskeliya	33.1

Rain Gauge Stations	
Station	**Rainfall (mm)**
Mathugama	391.8
Vogan Estate	291.1
Poddiwela farm	238.7
Bandaragama	232.5
Weweltalawa	209.0
Bentotawatte	201.1
Hiniduma	184.0
Kalutara	179.0
Batuwangala	153.7
Padukka Estate	144.2
Polatagama	143.0
Karagala	138.0
Mathugama	391.8
Vogan Estate	291.1

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

2. Temperature

2.1 Maximum temperature

The highest day time (maximum) temperature, 36.9 ^{0}C was reported from Polonnaruwa on 01st July (Fig 3.a). Except of 04th and 06th, same station had been reported highest day time temperature too. Nuwara Eliya was reported its highest maximum temperature 22.6^{0}C, on 04th July.

Except of a few stations, above normal maximum temperatures had been reported in many stations throughout the week (Fig 3.b). Weekly highest positive anomaly of maximum temperature, 3.0^{0}C reported at Nuwara-Eliya on 07th. And weekly lowest negative anomaly of maximum temperature, 1.3^{0}C at Batticaloa on 04th and 06th July.

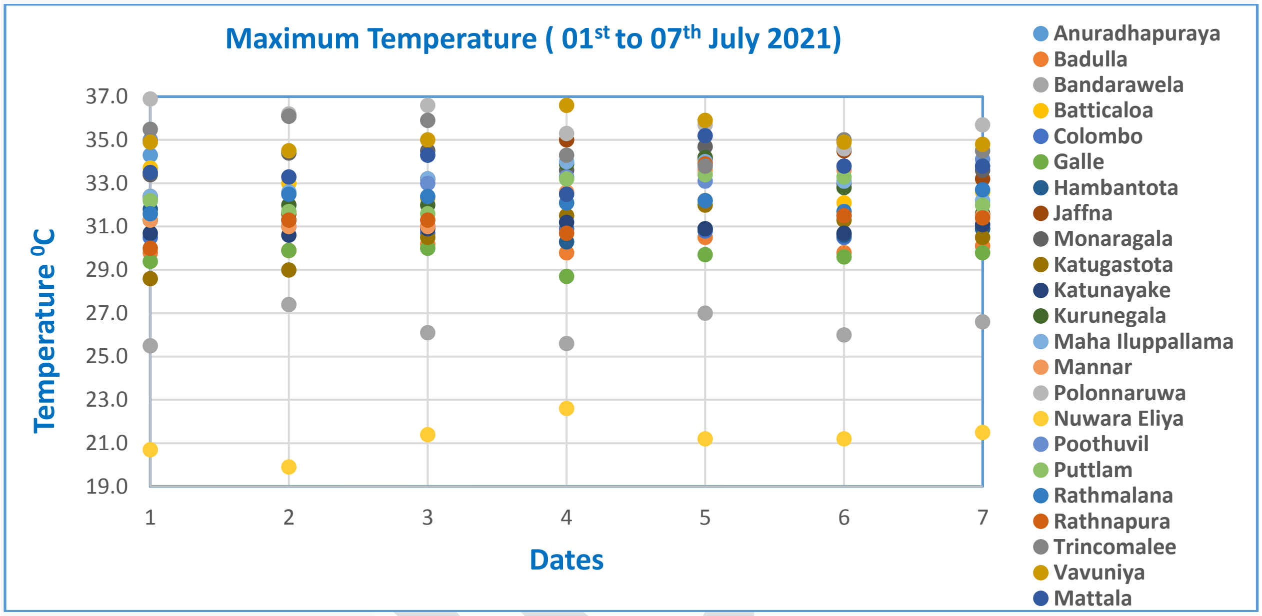


Fig 3.a: maximum temperature

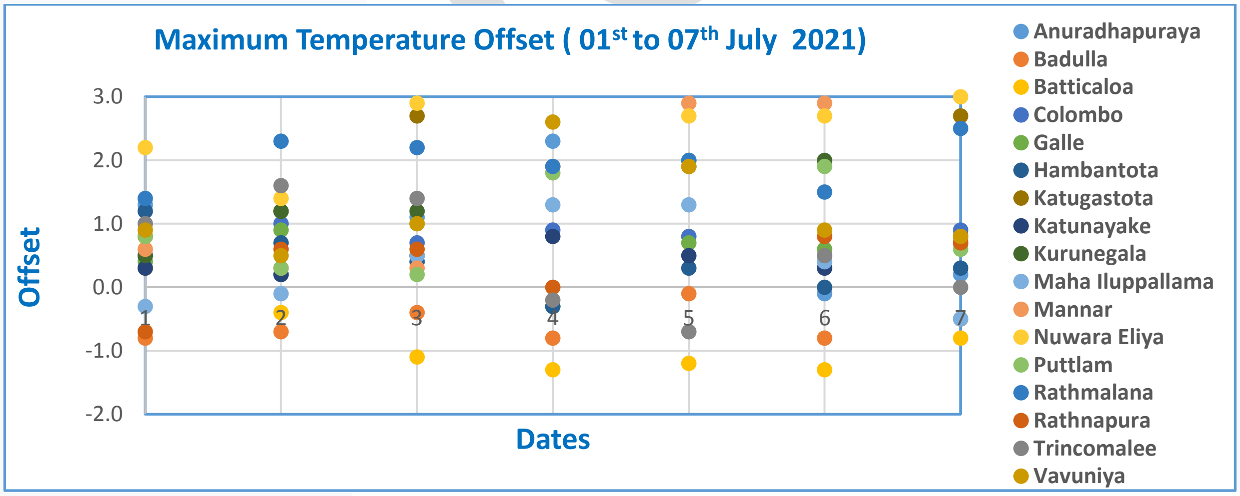


Fig 3.b: maximum temperature anomaly

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 11.8 ^{0}C was reported as usual from Nuwara-Eliya station on 05th July. The weekly highest minimum temperature 28.2 ^{0}C, was reported at Rathmalana and Mannar on 06th and 07th respectively (Fig 4.a). Above normal minimum temperatures had been reported from many main Meteorological stations during this week (Fig 4.b). Highest positive anomaly of minimum temperature 3.3 ^{0}C was reported at Rathmalana on 06th July. Lowest negative anomaly of minimum temperature, 2.0 ^{0}C was reported at Katunayake on 02nd July.

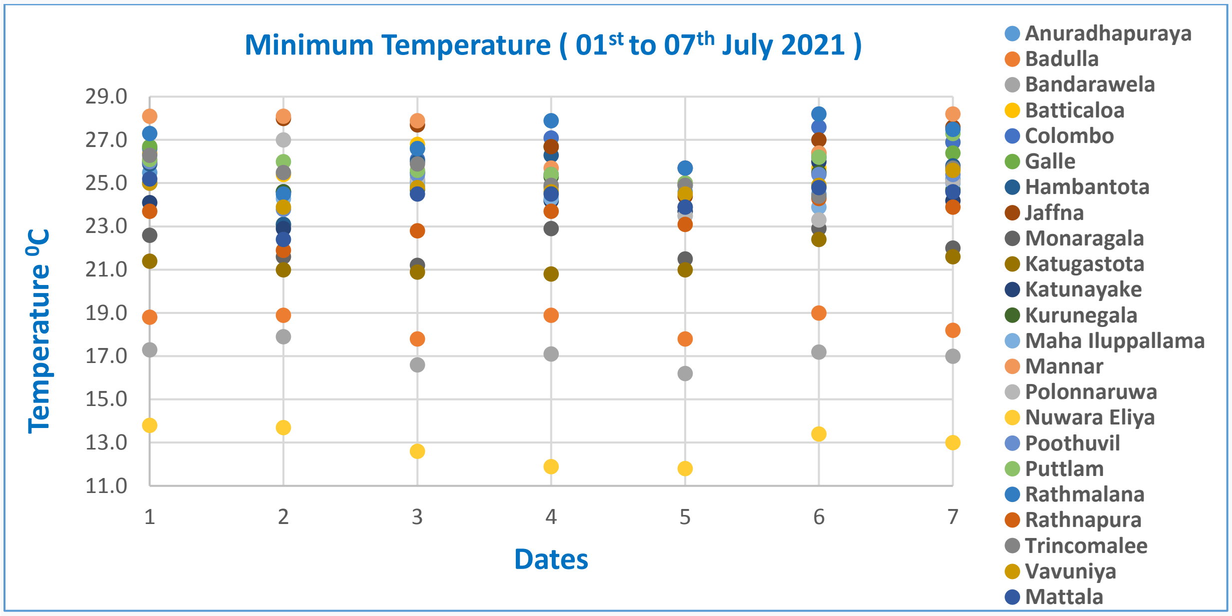


Fig 4.a: minimum temperature

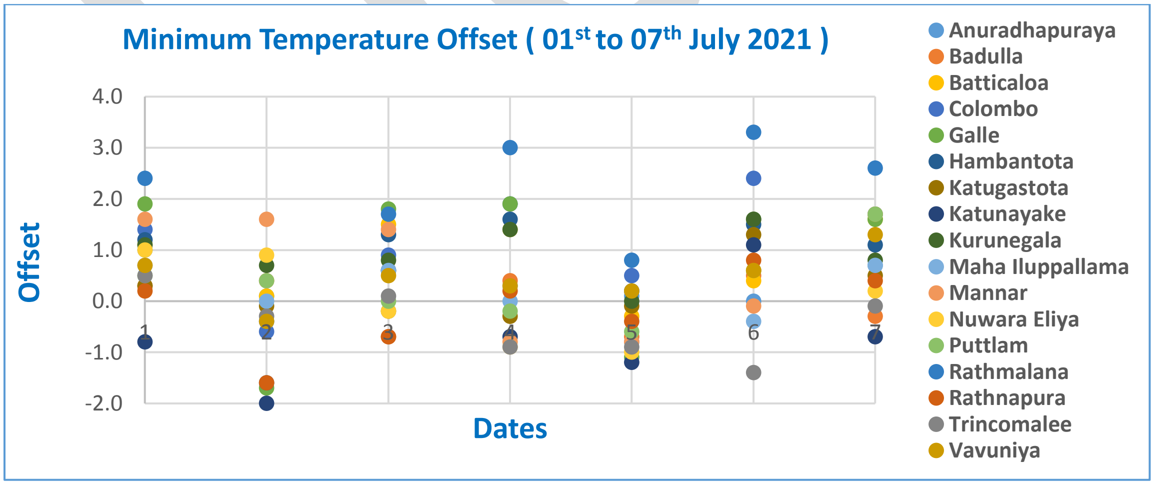


Fig 4.b: anomaly of minimum temperature

Figure 4. Minimum temperatures (^{0}C) and anomalies (^{0}C) during the week

3. Wind

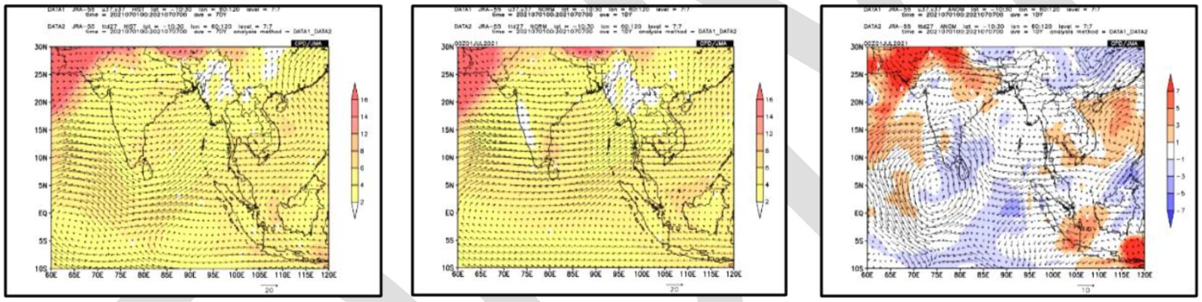
Light or light to moderate southwesterly, surface winds were prevailed over the Island during this week. Except of 05th July, mild or moderate pressure gradient was prevailed in between Colombo and Trincomalee where it was fairly even.

Upper winds at 850hPa:

Southwesterly to North-westerly winds were prevailed over the Island at 850hpa. Light to moderate wind speed was increased as strong on 02nd and 07th July. Northwest-South-east oriented trough axis was exist over to the west coast of Sri Lanka on 04th July.

Northwesterly to westerly weekly average observed winds were prevailed over the island (Figure 5.a) at 850hpa during this week. Westerly climatological (Figure 5.b) wind pattern is prevailed over the Island at 850hpa during this week. There was Southerly, slightly moist wind anomaly (Figure 5.c) was prevailed at 850hpa.

Observed Climatology Anomaly



(a) (b) (c)

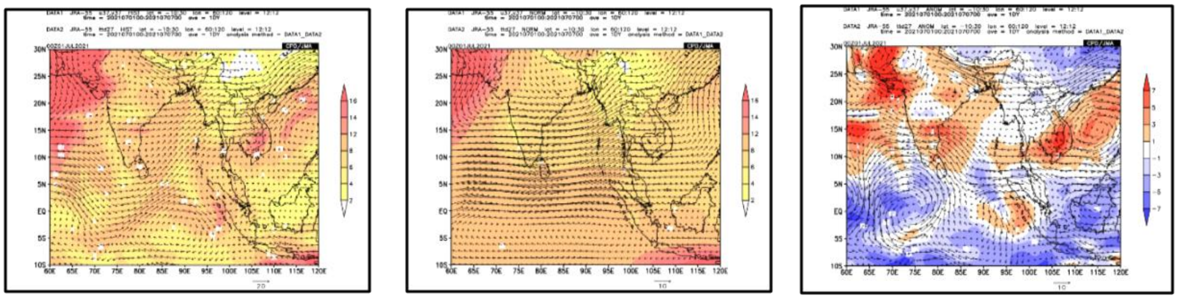
***Figure 5: wind pattern with dewpoint departures at 850hpa**

Upper winds at 700hPa:

Southwesterly to North-westerly winds were prevailed over the Island at 700hpa. Light to moderate wind speed was increased as strong on 07th July.

Westerly weekly averaged observed winds were prevailed over the country during this week (Figure 6.a). Northwesterly dry climatological (Figure 6.b) winds are prevailed at 700hPa level during this week. Southeasterly wind anomaly (Figure 6.c) was prevailed over the country at 700hpa.

Observed Climatology Anomaly



(a) (b) (c)

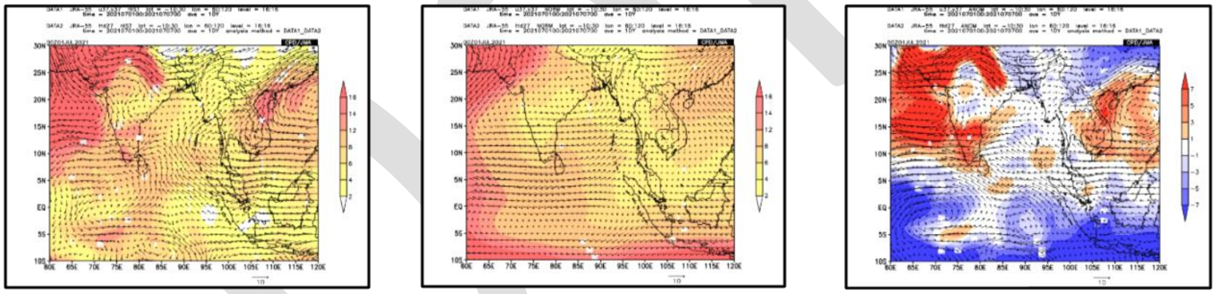
***Figure 6: wind pattern with dewpoint departures at 700hpa**

Upper winds at 500hPa:

Easterly to Northeasterly (05-15kts), winds were prevailed over the country during this week.

Southerly to southeasterly, dry weekly average observed (Figure 7.a), winds were over the island during this week at 500hpa. The climatological wind pattern is Westerly and dry (Figure 7.b). However, Southeasterly to Easterly dry wind anomaly (Figure 7.c) was prevailed over the Island at 500hpa during this week.

Observed Climatology Anomaly



(a) (b) (c)

***Figure 7: wind pattern with dewpoint departures at 500hpa**

Remarks: *Figure 5, 6 & 7: source "ITACS"-products of Japan Meteorological Agency

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Rainfall (mm)	Winds (knots)	Pressure distribution (hpa)	Pressure gradient (hpa)
Light : 00-12.5	Light :00-05	Even :0.0-0.4	Mild : 1.0-1.9
Light to moderate: 12.5-25.0	Light to moderate :05-10	Fairly even: 0.5-0.9	Moderate : 2.0-2.9
Moderate : 25.0-50.0	Moderate :10-15		Steep : 3.0-3.9
Fairly heavy : 50.0-100.0	Fresh :15-20		Very steep :4.0-4.9
Heavy : 100.0-150.0	Strong :20-30		
Very heavy : 150 and over	Very strong :30 and over		