

# Weekly Weather Summery

22 -31 July 2021

## 1. Rainfall

Active Southwest monsoon conditions were prevailed over the country till 26<sup>th</sup> July and it was weak during the latter part of this week. Interior parts of Kegalle, Rathnapura and Nuwara-Eliya districts received more rainfall than other Southwestern parts during this week.

Colombo district had received rainfall till 27<sup>th</sup> and it had enhanced as moderate to fairly heavy on 26<sup>th</sup> July. Except of 29<sup>th</sup> and 30<sup>th</sup>, scattered showers had reported in Galle district. Isolated light to moderate or moderate showers had reported from Gampaha district till 26<sup>th</sup> July. Scattered showers had been reported Nuwara-Eliya district till 28<sup>th</sup> July.

Scattered moderate to fairly heavy rainfall had been reported from Kandy district on 26<sup>th</sup> July. Moderate showers had been reported from Kurunegala district on 26<sup>th</sup> as well.

Many hydro-catchment stations in western slope of Central hills had received rainfall till 28<sup>th</sup> July and it has enhanced on 25<sup>th</sup> and 26<sup>th</sup> as moderate to fairly heavy rainfall.

Highest daily (24 hour) rainfall, 108.0 mm was reported from Maskeliya (Nuwara-Eliya district) on 23<sup>rd</sup> July (Fig 2). Highest weekly total rainfall, 367.2 mm was reported from Maskeliya as well (table 1).

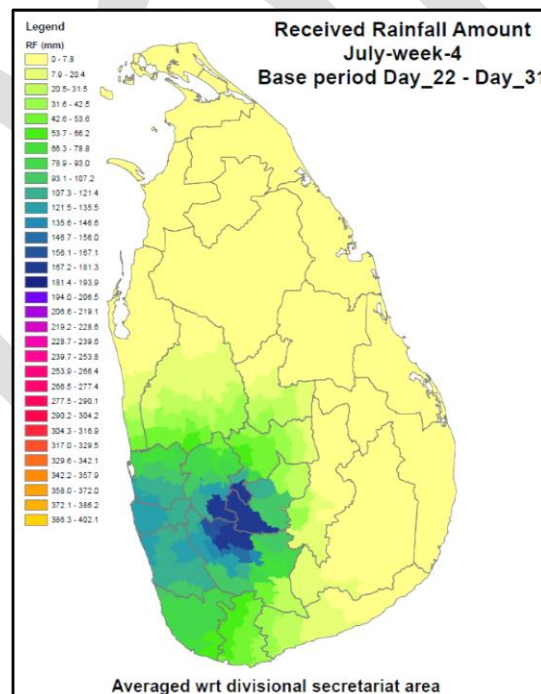


Figure 1: Total rainfall (mm) during the week

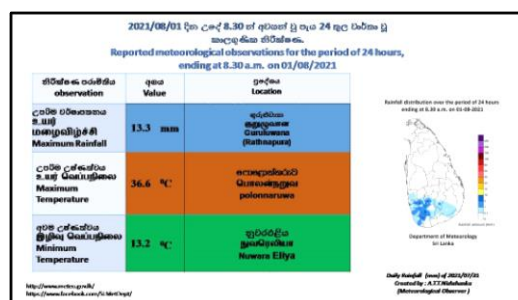
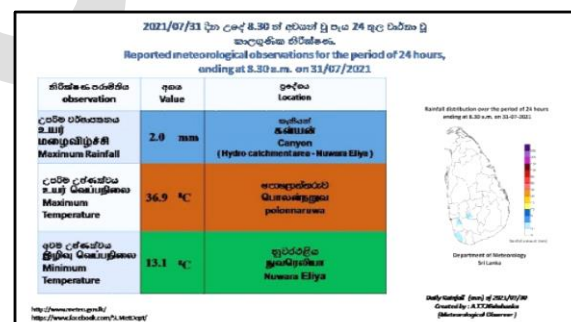
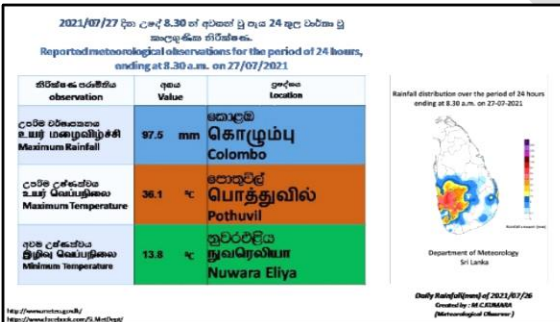
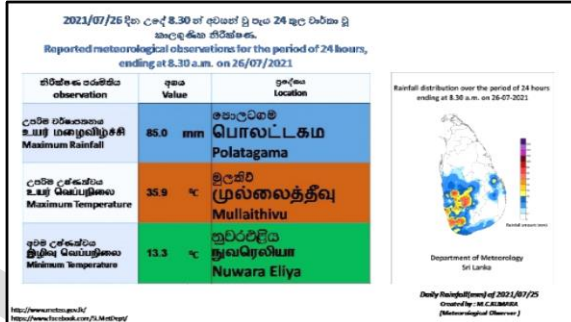
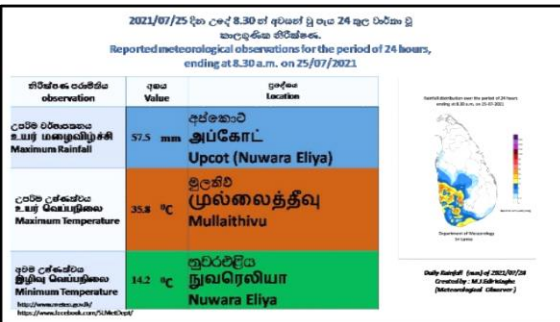
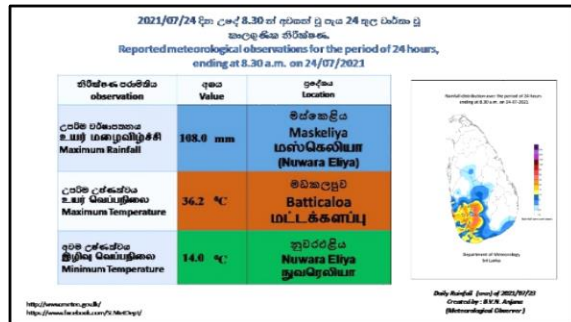
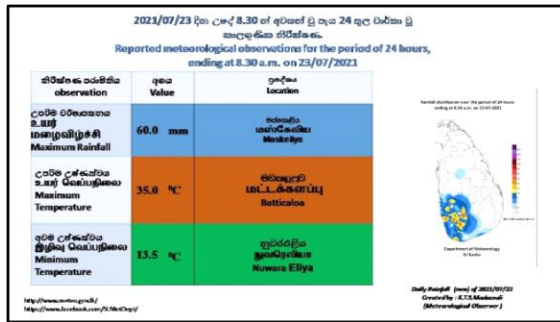


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ( $^{\circ}\text{C}$ ) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.0
Badulla	3.7
Bandarawela	1.9
Batticaloa	0.9
Colombo	208.0
Galle	72.9
Hambanthota	34.4
Jaffna	0.0
Monaragala	5.0
Katugasthota	58.6
Katunayake	76.4
Kurunagala	33.0
MahaIlluppallama	2.5
Mannar	0.0
Polonnaruwa	0.0
Nuwara Eliya	45.1
Pothuvil	0.0
Puttalam	0.0
Rathmalana	95.5
Rathnapura	109.5
Trincomalee	0.0
Vavuniya	0.0
Mattala	4.6

Hydro-Catchment Areas	
Station	Rainfall (mm)
Maskeliya	367.2
Norton	311.2
Laksapana	292.7
Canyon	212
Bowatenna	192.5
Kukuleganga	173
Maussakele	150.5
Kotmalee	132.5
Upper kotmalee	113.2
Ukuwela	63.6
Bowatenna	6.8
Samanala Wewa	5.5
Victoriya	2.9

Rain Gauge Stations	
Station	Rainfall (mm)
Guruluwana	234.8
Watawala	207.4
Kotagala Rosita	178.7
Colombo Fort	172.4
Padukka Estate	169.1
Helboda North	152
Karagala	155.5
Pasyala	149.7
Mathugama	148.1
Bentotawatte	146.7
Dehiwala	139.5
Kirindiwela	138.7

**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,  $36.7^{\circ}\text{C}$  was reported from Potuvil on 27<sup>th</sup> July (Fig 3.a). Nuwara-Eliya was reported its highest maximum temperature  $21.5^{\circ}\text{C}$ , on 31<sup>st</sup>.

Except of on 24<sup>th</sup> and 26<sup>th</sup>, above normal maximum temperatures had been reported from all most all meteorological stations during this week (Fig 3.b). Weekly highest positive anomaly of maximum temperature,  $2.8^{\circ}\text{C}$  reported at Batticaloa on 23<sup>rd</sup>. Weekly lowest negative anomaly of maximum temperature,  $5.7^{\circ}\text{C}$  at Rathnapura on 26<sup>th</sup> July.

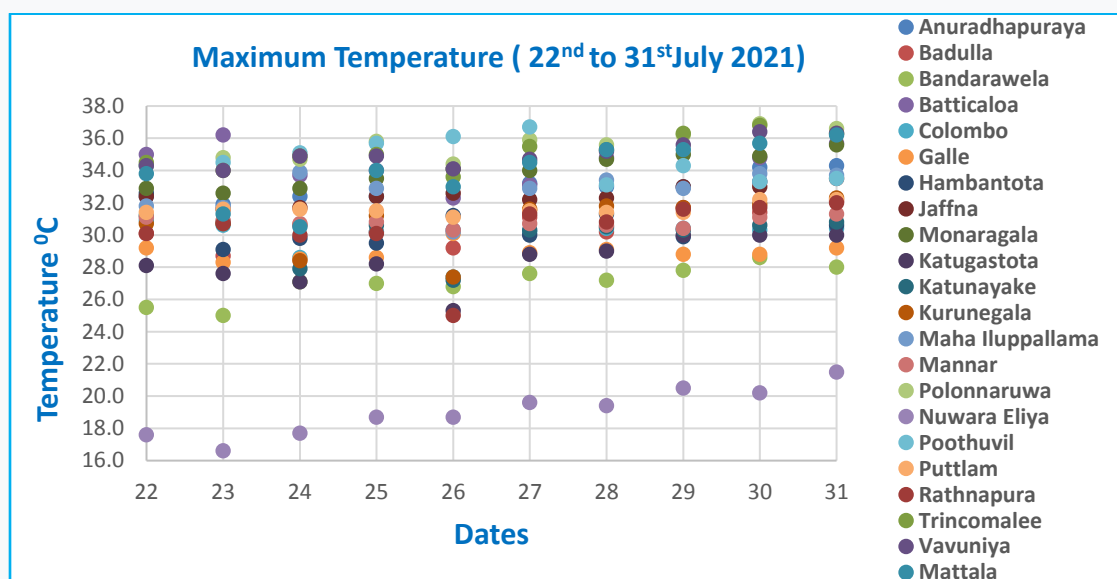


Fig 3.a: maximum temperature

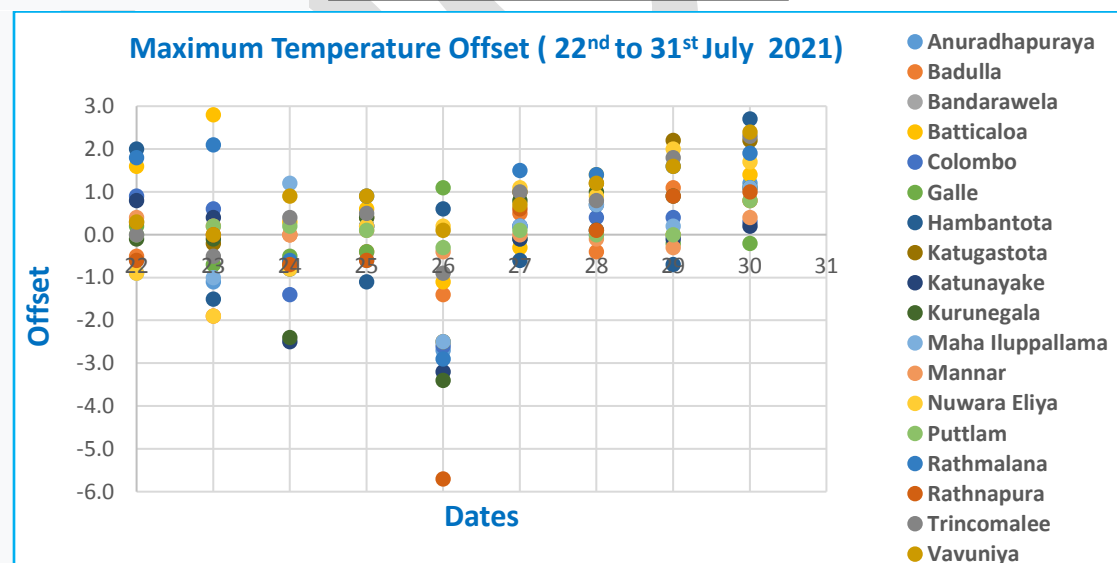


Fig 3.b: maximum temperature anomaly

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

## 2.2 Minimum temperature

The weekly lowest minimum temperature, 13.1 °C was reported as usual from Nuwara-Eliya station on 31<sup>st</sup> July. The weekly highest minimum temperature 28.0 °C, was reported at Mannr on 22<sup>nd</sup> (Fig 4.a). Except of a few stations above normal minimum temperatures had been reported from many main Meteorological stations throughout this week. Highest positive anomaly of minimum temperature 4.0 °C was reported at Anuradhapura (Fig 4.b) on 31<sup>st</sup> July. Lowest negative anomaly of minimum temperature, 2.1 °C was reported at Katunayake on 25<sup>th</sup>.

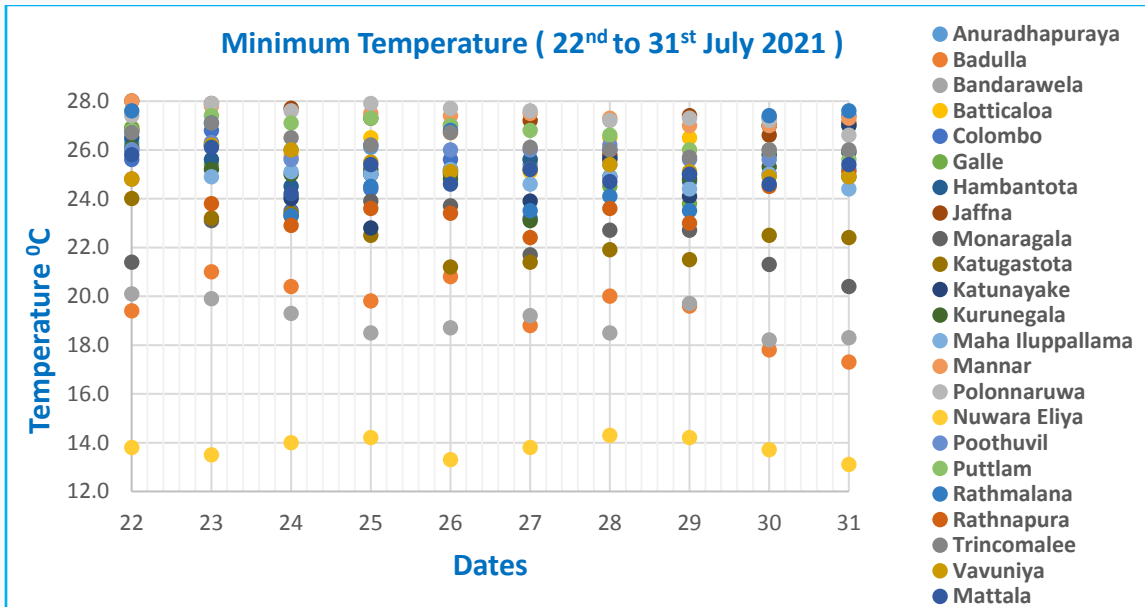


Fig 4.a: minimum temperature

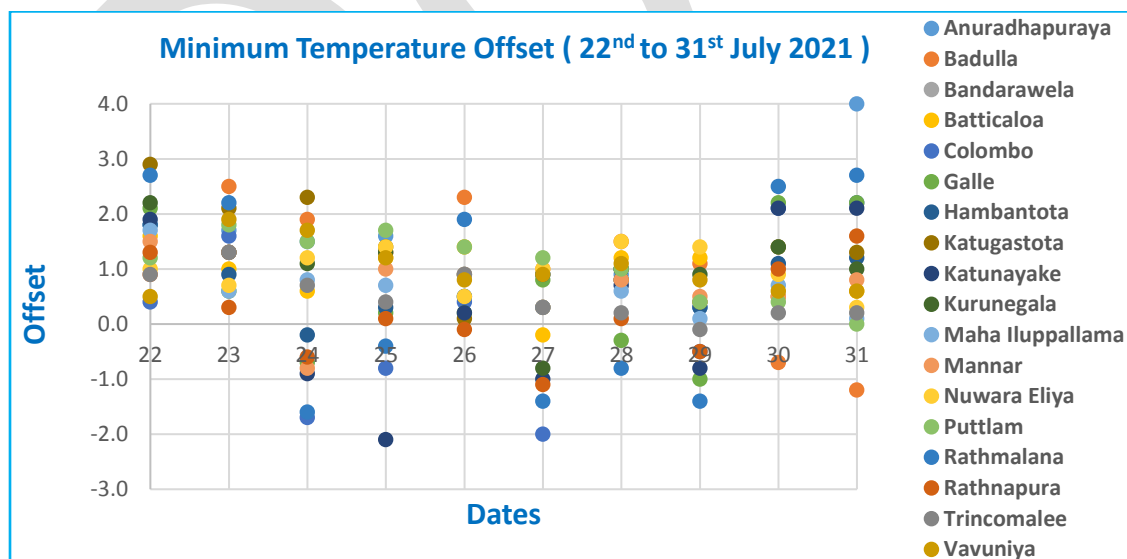


Fig 4.b: anomaly of minimum temperature

**Figure 4. Minimum temperatures (°C) and anomalies (°C) during the week**



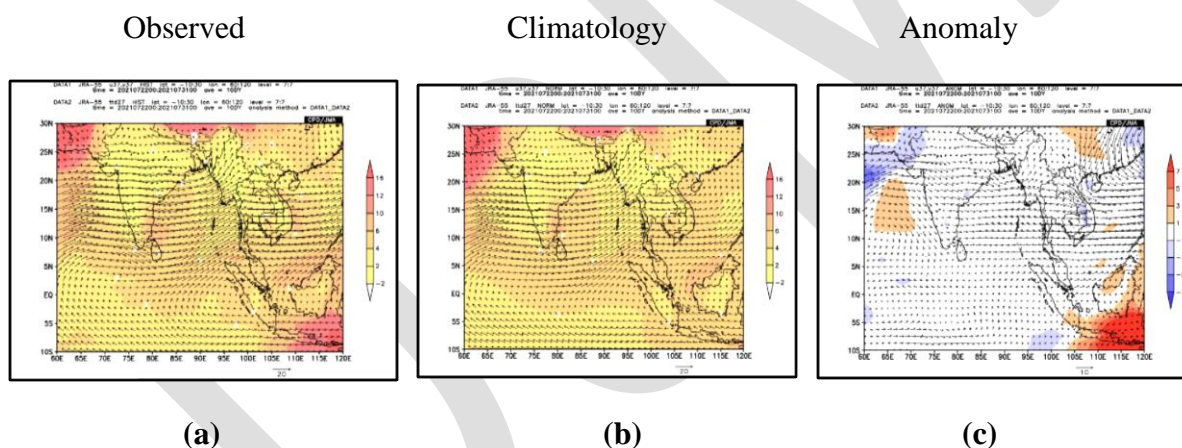
### 3. Wind

Light to moderate or moderate, westerly to southwesterly winds were prevailed over the Island till 27<sup>th</sup> July and north-south oriented trough axis over to the west of Sri Lanka. It was changed as north westerly to westerly 27<sup>th</sup> onwards. Steep Southwesterly pressure gradient was prevailed in between Colombo and Trincomalee during the 23<sup>rd</sup> to 26<sup>th</sup> July and it was mild or moderate in remaining days. However, there was a steep pressure gradient in between Colombo and Jaffna during the 24<sup>th</sup> and 27<sup>th</sup> July period as well.

#### Upper winds at 850hPa:

Fresh to strong northwesterly to westerly moist winds were prevailed at 850hpa over the Island during this week. East-west oriented trough axis was exist around 15<sup>0</sup>N. Cyclonic circulation over North Bay of Bengal and gradually it has moved northwest ward 25<sup>th</sup> on wards.

North-westerly slightly dry weekly average observed winds were prevailed over the island (Figure 5.a) at 850hpa during this week. Northwesterly, climatological (Figure 5.b) winds are prevailed over the Island during this week. There was westerly, near normal moist wind anomaly (Figure 5.c) was prevailed over the country at 850hpa during this week.

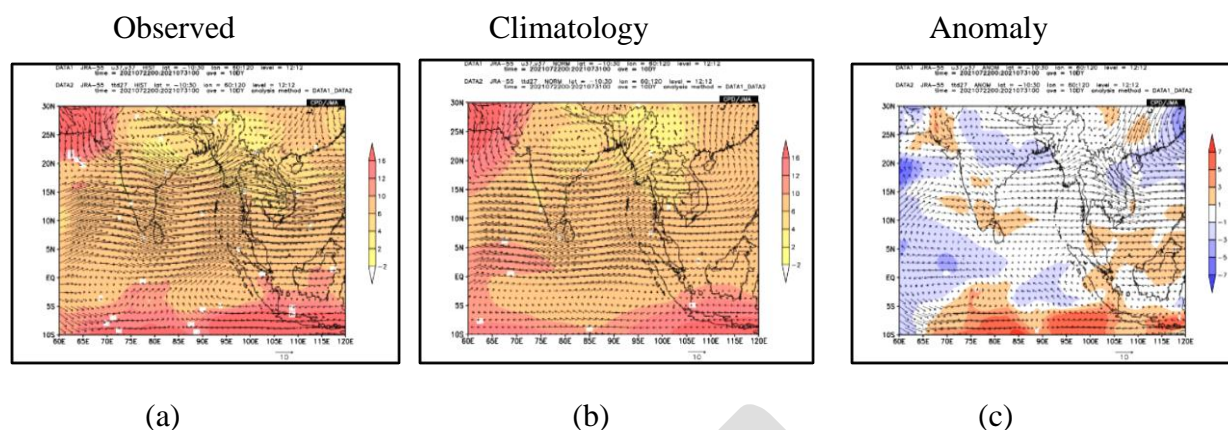


**\*Figure 5: wind pattern with dewpoint departures at 850hpa**

#### Upper winds at 700hPa:

Fresh to strong northwesterly to westerly moist winds were prevailed at 700hpa over the Island during this week. East-west oriented trough axis was exist around 15<sup>0</sup>N. Cyclonic circulation over North Bay of Bengal and gradually it has moved northwest ward 25<sup>th</sup> on wards.

North-westerly dry 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. And westerly, dry wind anomaly (Figure 6.c) was prevailed over the northern part of the country at 700hpa during this week.

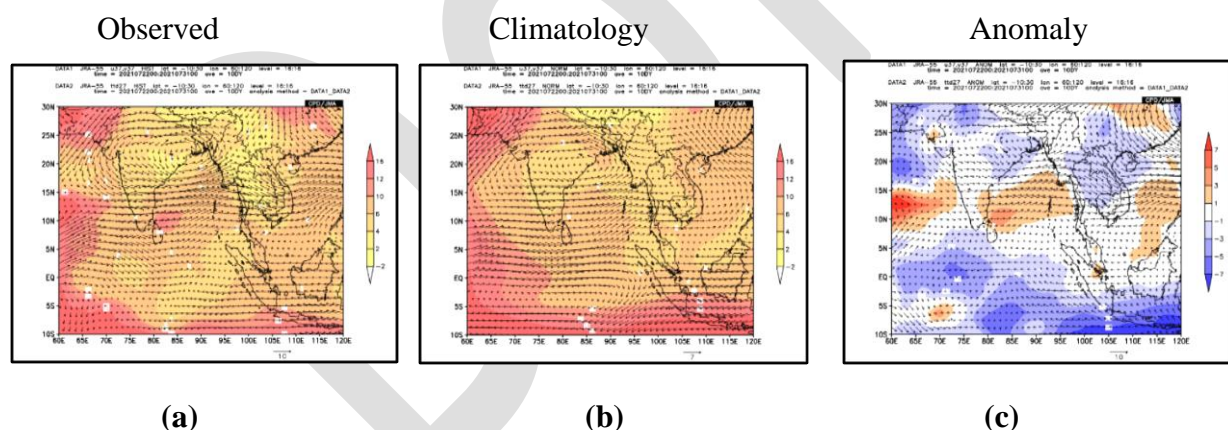


**\*Figure 6: wind pattern with dewpoint departures at 700hpa**

### Upper winds at 500hPa:

Light to moderate or moderate northwesterly winds were changed to westerly on 25<sup>th</sup> July at 500hpa. Again it has changed to northerly or variable 27<sup>th</sup> July onwards. Southwest-northeast oriented trough axis over 13<sup>0</sup>N 80<sup>0</sup>E extended to Pacific region.

North-westerly to westerly, dry weekly observed (Figure 7.a) winds were over the island during this week at 500hpa. The climatological wind pattern is Northwesterly to westerly and dry (Figure 7.b). However, westerly, dry wind anomaly (Figure 7.c) was prevailed over the northern part of the country at 500hpa during this week.



**\*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				