

## **Weekly Weather Summery**

**01-07 August 2021**

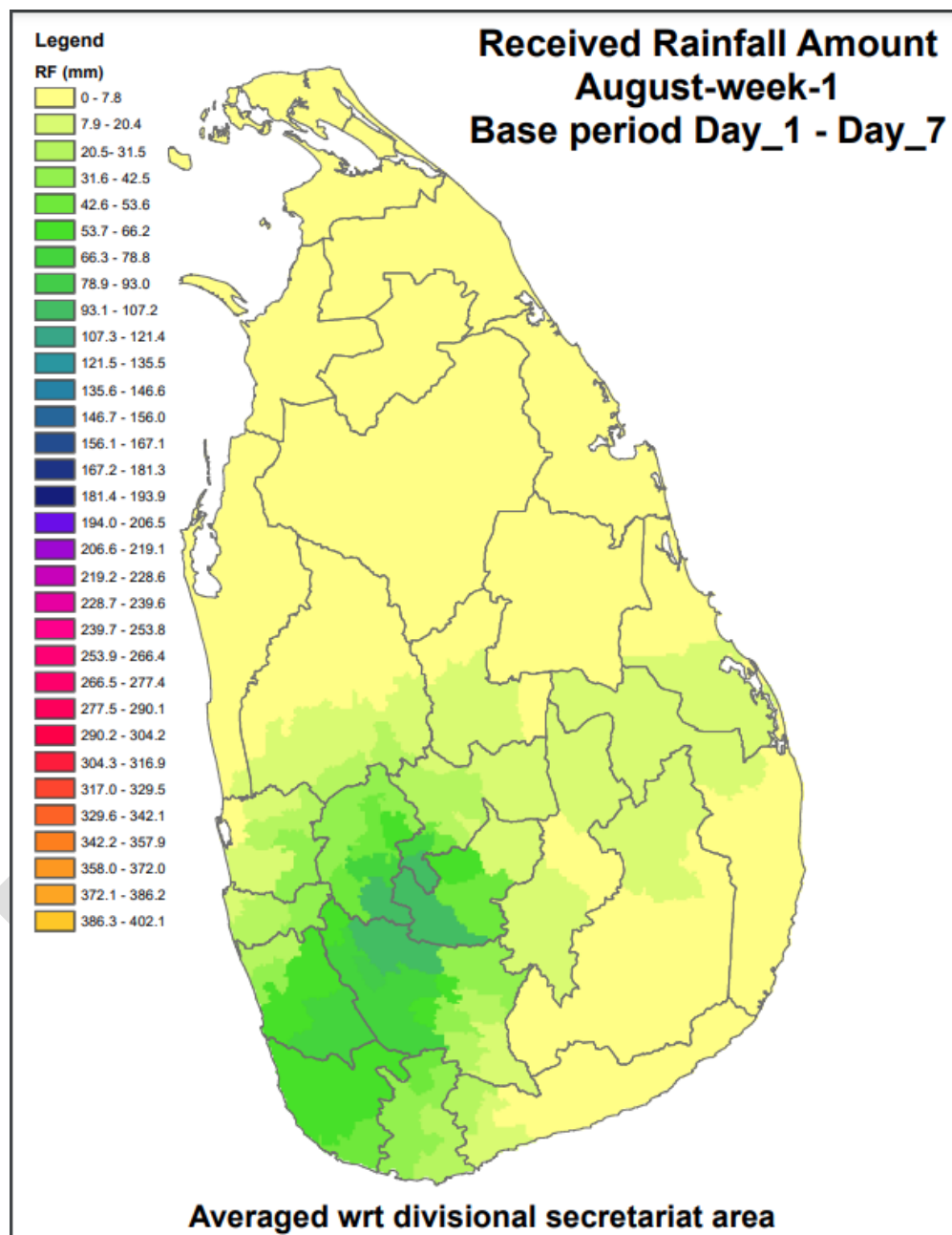
### **1. Rainfall**

Weak Southwest monsoon conditions were continued during this week too. Except of some showers in Southwestern parts, mainly fair weather was prevailed over elsewhere during this week (Figure 1). Moderate to fairly heavy showers with isolated heavy rainfall had received in southwestern parts on 06<sup>th</sup> and 07<sup>th</sup> August. Except of 06<sup>th</sup> and 07<sup>th</sup>, a few showers had been reported from southwest quarter during this week.

Moderate to fairly heavy showers had been reported in Colombo district on 06<sup>th</sup> and 07<sup>th</sup> August. Further, Isolated heavy showers had been reported on 07<sup>th</sup>. Moderate to fairly heavy showers had reported from Rathnapura district on 07<sup>th</sup> August. However scattered showers had been reported from Rathnapura district during the last three days of this week. Scattered, moderate to fairly heavy showers had been reported from Southwestern parts during the last two days of this week.

Moderate showers had been reported at hydro catchment areas during the last three days of this week. A few showers had been reported at some stations at the begging of this week too. However, showers had been occurred at many stations which are located in western slope of the central hills.

Highest daily (24 hour) rainfall, 117.5 mm was reported from Norton (Nuwara-Eliya district) on 07<sup>th</sup> August. Further, same station had been reported highest weekly total rainfall as, 220.7 mm (Nuwara-Eliya district) during this week.



**Figure 1: Total rainfall (mm) during the week**

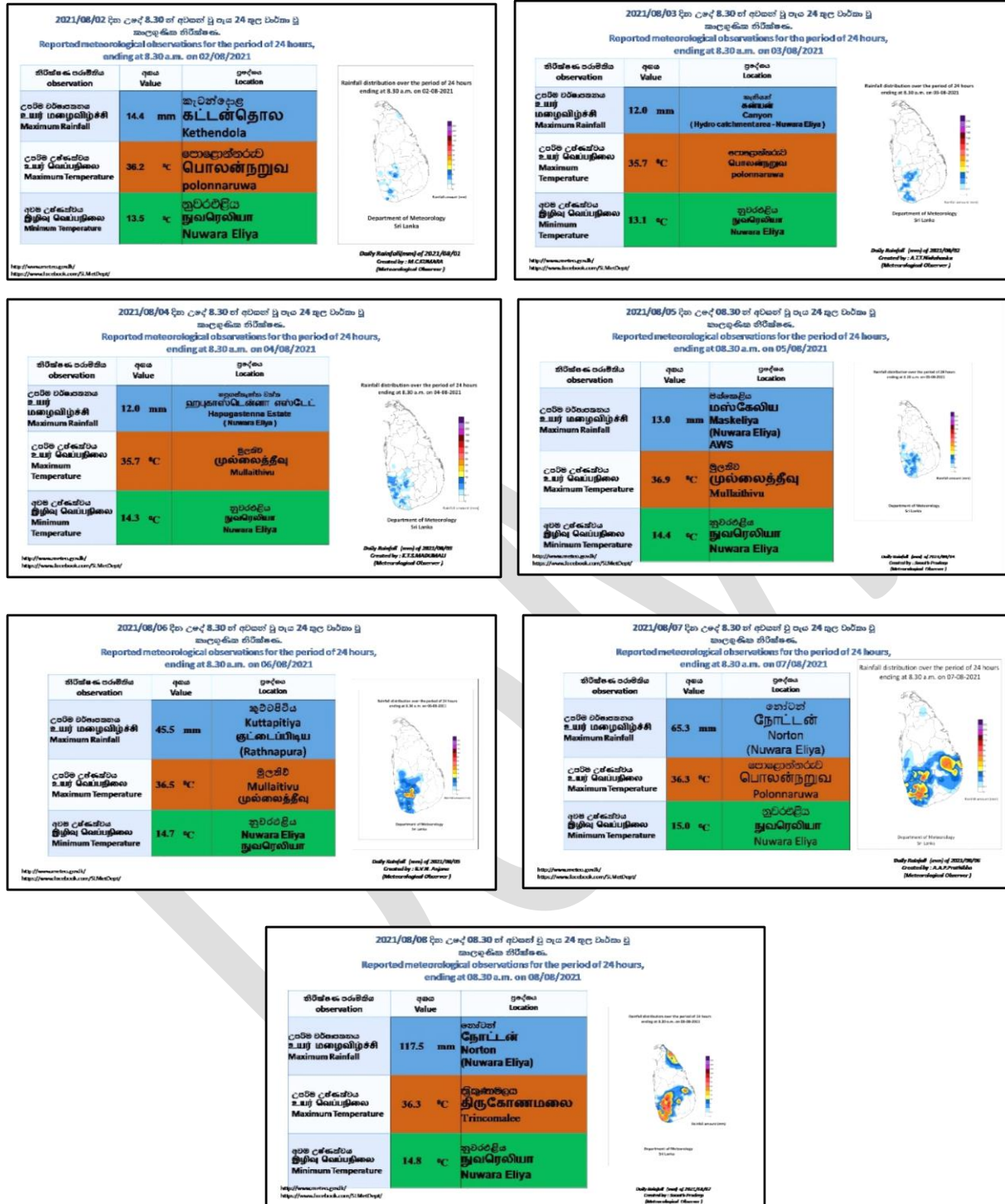


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ( $^{\circ}\text{C}$ ) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.0
Badulla	36.5
Bandarawela	1.7
Batticaloa	0.0
Colombo	4.6
Galle	24.0
Hambanthota	0.0
Jaffna	0.1
Monaragala	0.4
Katugasthota	21.4
Katunayake	0.7
Kurunagala	0.0
MahaIlluppallama	0.0
Mannar	0.0
Polonnaruwa	0.0
Nuwara Eliya	9.3
Pothuvil	0.3
Puttalam	0.0
Rathmalana	2.8
Rathnapura	68.1
Trincomalee	9.0
Vavuniya	9.0
Mattala	9.0

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	132.3
Norton	220.7
Maussakele	68.6
Canyon	192.0
Laksapana	157.3
Upper kotmalee	32.9
Kotmalee	30.0
Victoriya	7.2
Randenigala	0.0
Rantambe	0.0
Bowatenna	0.0
Ukuwela	21.3
Samanala Wewa	0.0
Kukuleganga	72.0
Maskeliya	106.4

Rain Gauge Stations	
Station	Rainfall (mm)
Watawala	158.1
Ilubuluwa Estate	141.9
Weweltalawa	137.5
Polatagama	135.0
Bentotawatte	115.9
Vincit Estate	110.0
Karagala	104.0
Hiniduma	92.0
Helboda North	90.0
Kotagala Rosita	88.1
BATUWANAGALA	87.0
Mathugama	85.4

**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 °C was reported from Mulativu on 04<sup>th</sup> August (Fig 3.a). Further, same station had reported highest day time temperature on 05<sup>th</sup> and 03<sup>rd</sup> too. Nuwara Eliya was reported its highest maximum temperature 20.1°C, on 01<sup>st</sup> August. Except of a 03<sup>rd</sup> and 07<sup>th</sup>, above normal maximum temperatures had reported in many stations throughout the week (Fig 3.b). Weekly highest positive anomaly of maximum temperature, 3.7°C reported at Hambantota on 03<sup>rd</sup>. And weekly lowest negative anomaly of maximum temperature, 2.0°C at Rathnapura on 07<sup>th</sup> August.

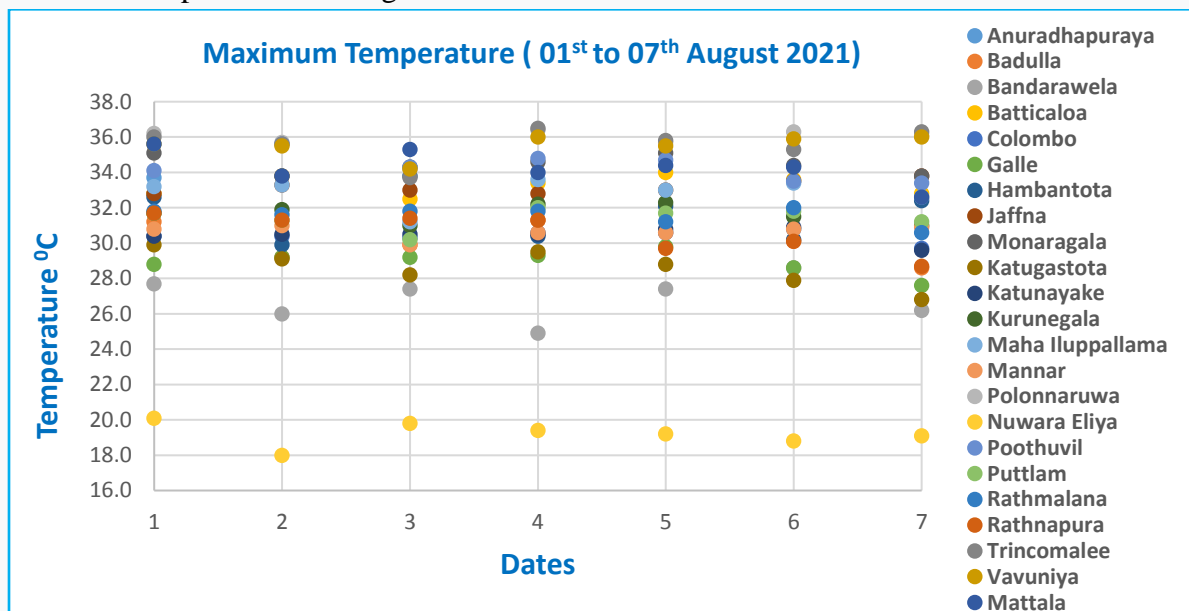


Fig 3.a: maximum temperature

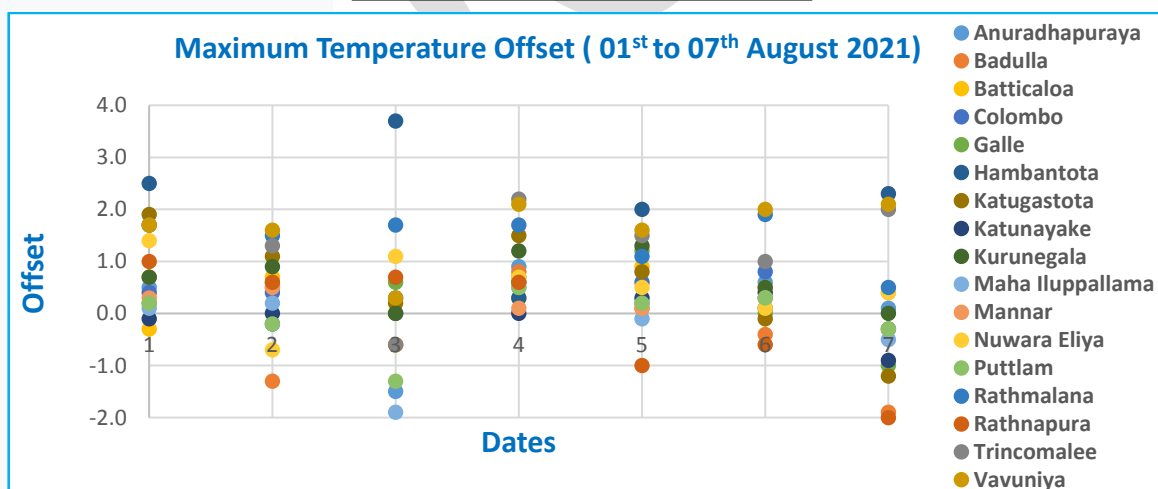


Fig 3.b: maximum temperature anomaly

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

## 2.2 Minimum temperature

The weekly lowest minimum temperature, 13.1 °C was reported as usual from Nuwara-Eliya station on 03<sup>rd</sup> August. The weekly highest minimum temperature 27.6 °C, was reported at Rathmalana on 01<sup>st</sup> 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 3.2 °C was reported at Katugastota on 04<sup>th</sup> August. Lowest negative anomaly of minimum temperature, 1.0 °C was reported at Badulla on 02<sup>nd</sup> August.

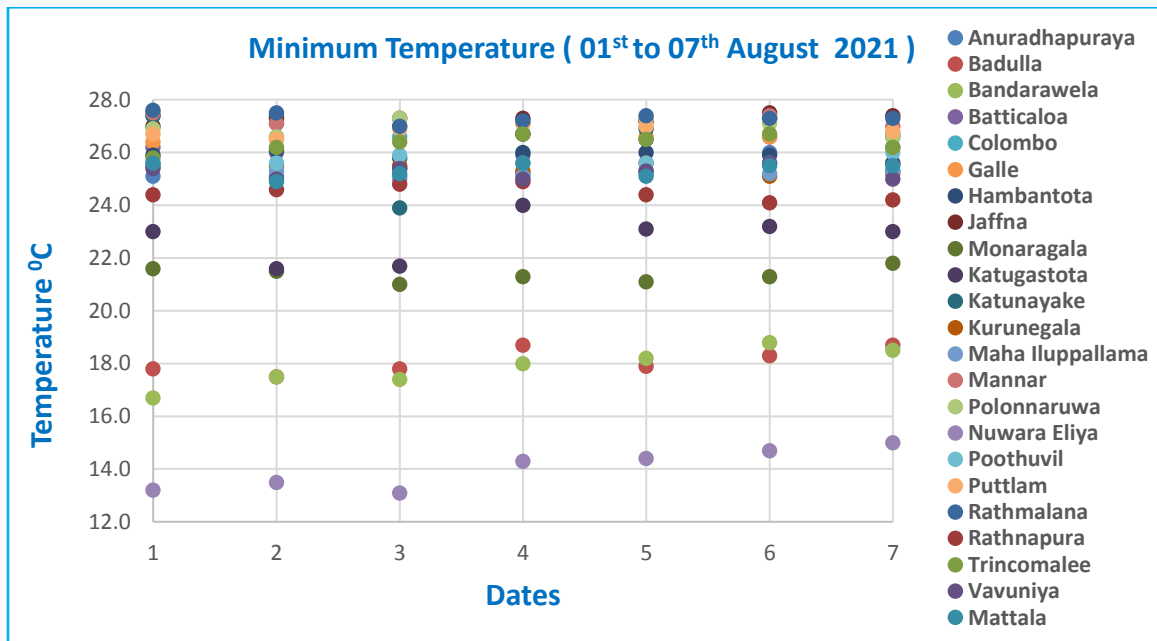


Fig 4.a: minimum temperature

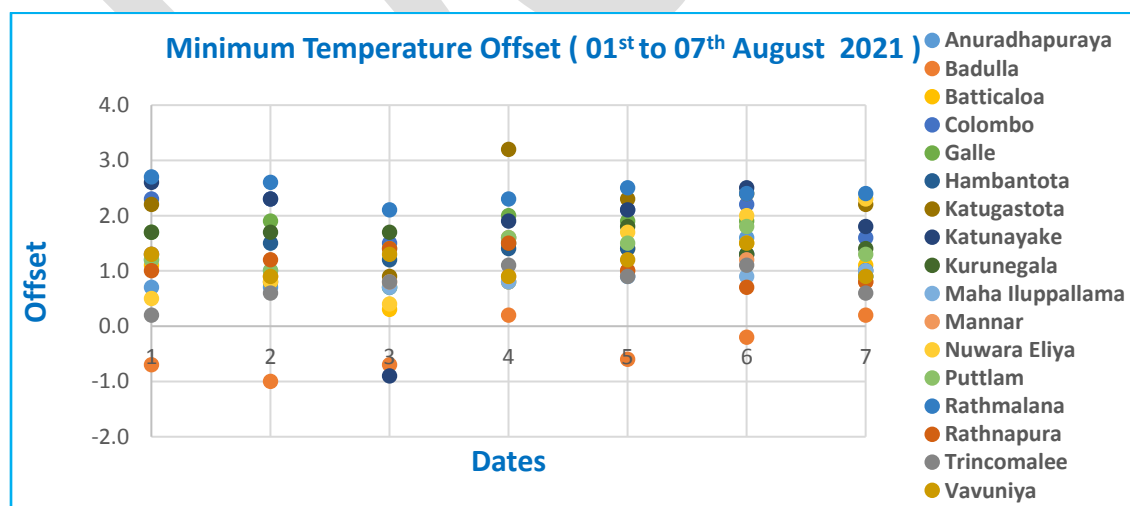


Fig 4.b: anomaly of minimum temperature

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



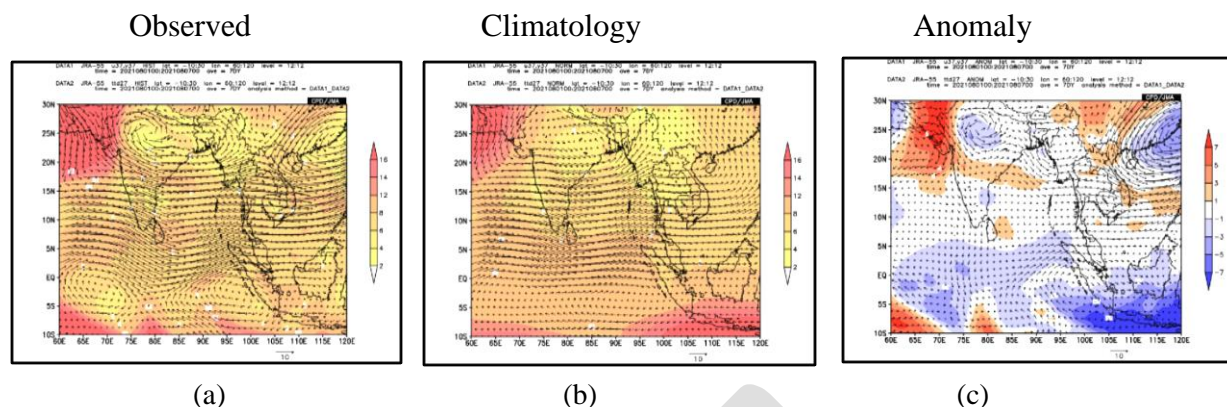
Light or light to moderate southwesterly or Westerly, surface winds were prevailed over the Island during this week. Except of 05<sup>th</sup> August, mild or moderate Southwesterly pressure gradient was prevailed in between Colombo and Trincomalee where it was steep.

Moderate North-westerly winds were prevailed over the Island at 850hpa during this week.

Figure 1 consists of three panels labeled (a), (b), and (c), each showing a map of the Indian Ocean region (60E-120E, 10S-30N). Panel (a) is titled 'Observed' and shows wind vectors and SST. Panel (b) is titled 'Climatology' and shows wind vectors and SST. Panel (c) is titled 'Anomaly' and shows wind vectors and SST. The maps are overlaid with a grid of latitude and longitude lines. The color scale for SST is indicated by a vertical bar on the right of each panel. The color scale for wind vectors is indicated by a vertical bar on the right of each panel. The color scale for SST anomaly is indicated by a vertical bar on the right of panel (c).

### Upper winds at 700hPa:

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. North-northwesterly near normal moist wind anomaly (Figure 6.c) was prevailed over the country at 700hpa.

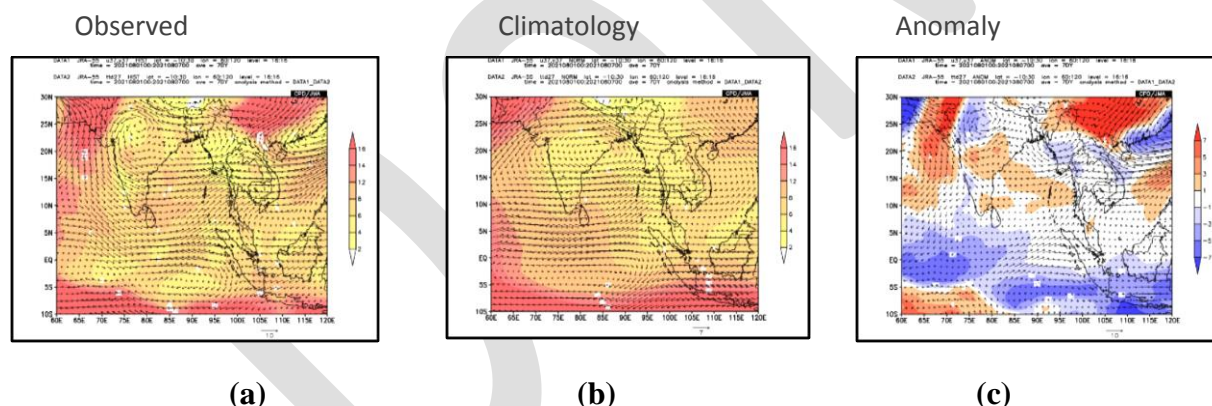


**\*Figure 6: wind pattern with dewpoint departures at 700hpa**

### Upper winds at 500hPa:

Light to moderate or light Northwesterly to Westerly, winds were prevailed over the country at 500hpa till 05<sup>th</sup> August. It was light variable during last two days of this week.

North-westerly to Westerly, dry weekly average observed (Figure 7.a), winds were over the island during this week at 500hpa. The climatological wind pattern is West-Northwesterly and dry (Figure 7.b). However, light, near normal moist wind anomaly (Figure 7.c) was prevailed over the Island 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				