

Weekly Weather Summery

08 -14 June 2021

1. Rainfall

Southwest monsoon conditions were continuing this week, but it was weak during the middle part of this week. Showers had been reported in Southwest quarter during this week and rainy conditions were enhanced on 08th as well as 13th June. Except of 08th and 13th, scattered light to moderate or moderate showers had been reported from Southwestern areas. Further, except of 13th, light or light to moderate showers had been reported Gampaha and coastal areas of Colombo districts throughout the week. However, dry weather was prevailed over remaining parts of the Island throughout the week.

Fairly heavy to heavy showers had been reported from many hydro catchment stations which are located in Western slope of the Central hills on 08th and 13th June. Light to moderate or moderate showers had been reported from hydro catchment areas on 09th as well as 12th June.

Highest daily (24 hour) rainfall, 144.0 mm was reported from Ehaliyagoda (Rathnapura district) automated rain gauge on 13th June. Highest weekly total rainfall, 331.6 mm was reported from Wewalthalawa (Rathnapura district) during this week.

Figure 1, represents total rainfall during this week and Figure 2, reported daily highest rainfall, daily maximum and minimum temperatures during this week respectively. Table 1, represents weekly total rainfall at main meteorological stations, catchment areas and reported highest weekly total rainfall at some rainfall stations.

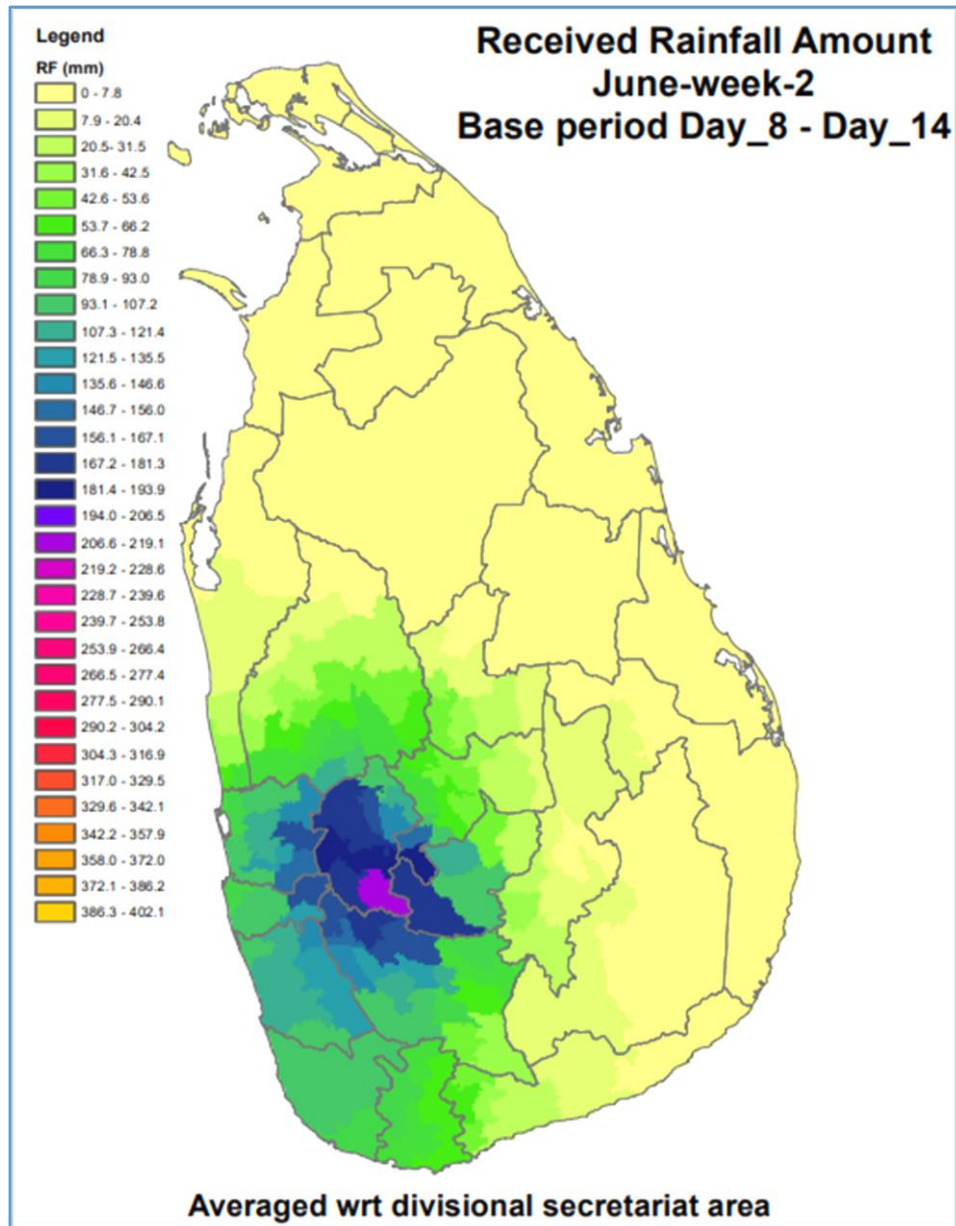


Figure 1: Total rainfall (mm) during the week

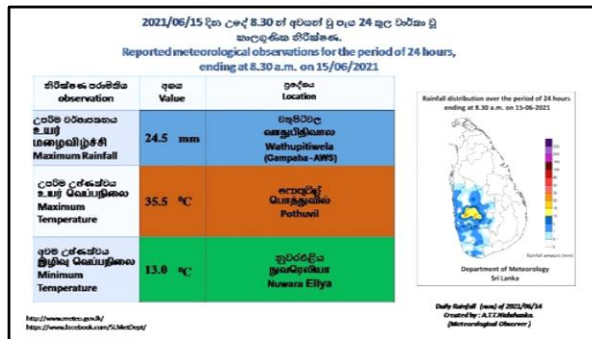
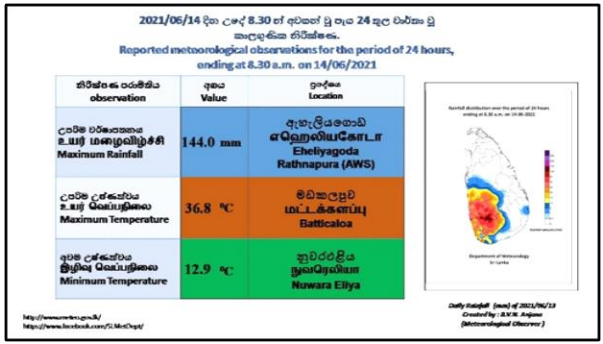
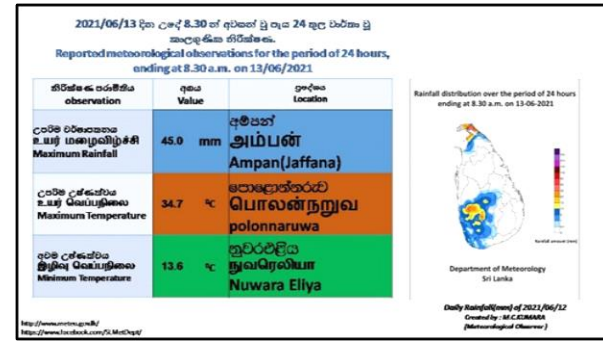
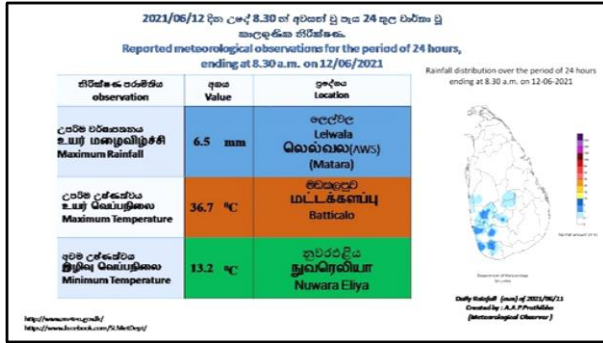
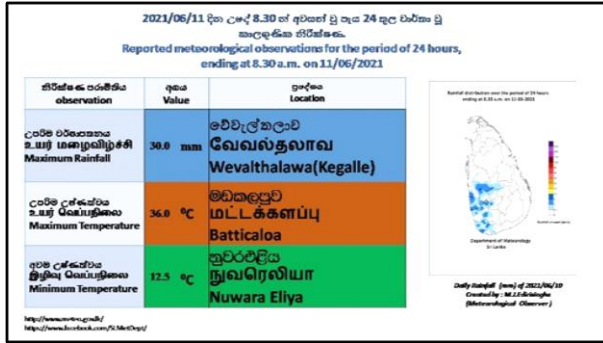
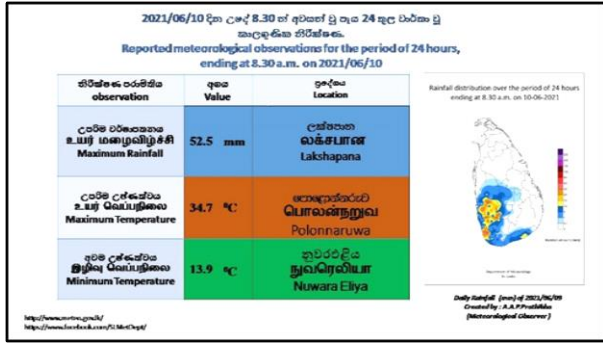
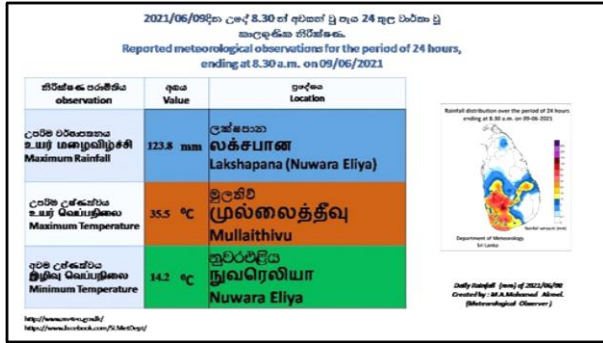


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (°C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	0.0
Badulla	4.4
Bandarawela	15.1
Batticaloa	0.0
Colombo	94.0
Galle	93.5
Hambanthota	14.7
Jaffna	17.6
Monaragala	0.0
Katugasthota	29.5
Katunayake	75.6
Kurunagala	128.9
MahaIlluppallama	9.7
Mannar	0.0
Polonnaruwa	0.0
Nuwara Eliya	48.5
Pothuvil	0.0
Puttalam	5.0
Rathmalana	70.2
Rathnapura	140.8
Trincomalee	0.0
Vavuniya	0.0
Mattala	19.5

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	198.4
Norton	316.1
Maussakele	170.2
Canyon	182.2
Lakshapana	310.9
Upper Kotmale	138.2
Kotmale	139.9
Victoriya	11.1
Randenigala	0.0
Rantambe	0.9
Bowatenna	20.1
Ukuwela	33.6
Samanala Wawa	44.5
Kukuleganaga	98.0
Maskeliya	107.0

Rain Gauge Stations	
Station	Rainfall (mm)
Weweltalawa	331.6
Yatiyanthota	287.1
Guruluwana	267.8
Polatagama	253
Moralioya	251.4
Watawala	221.9
Pasyala	202.1
Nittambuwa	190.3
Karagala	187
Vincit Estate	181.2
Ketadola	172.6
Vogan Estate	163.6
Kotagala Rosita	166.5

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, 36.8 °C was reported from Batticaloa on 13th June (Fig 3.a). Nuwara Eliya was reported its highest maximum temperature 20.9°C, on 08th.

Except of a few stations, above normal maximum temperatures had been reported at many meteorological stations during this week (Fig 3.b). Weekly highest positive anomaly of maximum temperature, 3.4°C reported at Batticaloa on 13th and weekly lowest negative anomaly of maximum temperature, 2.6°C at Badulla on 09th June.

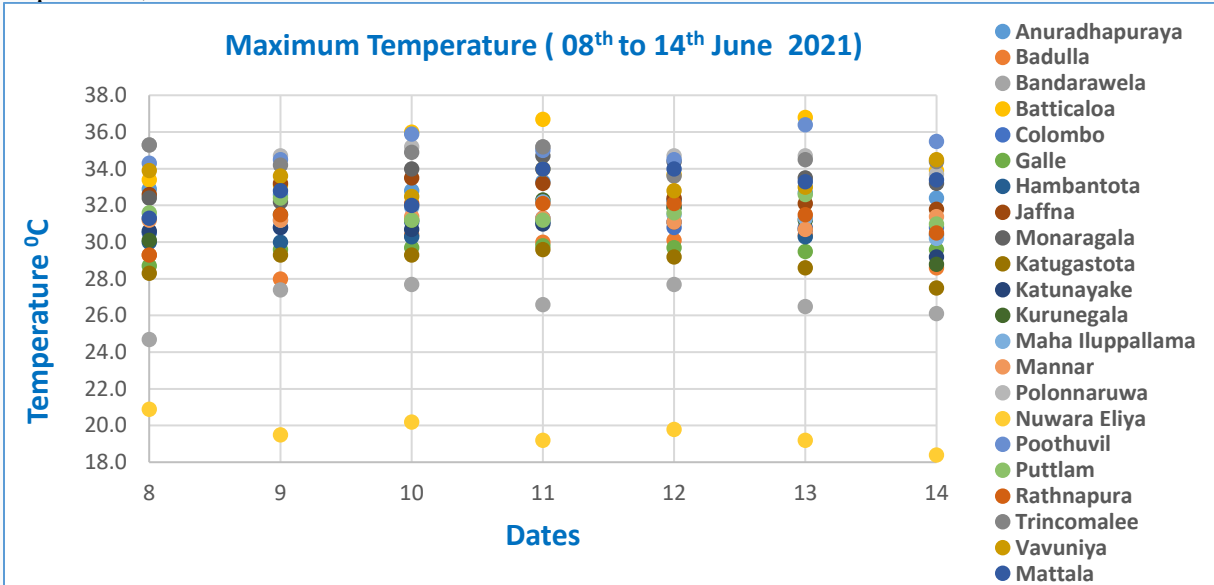


Fig 3.a: maximum temperature

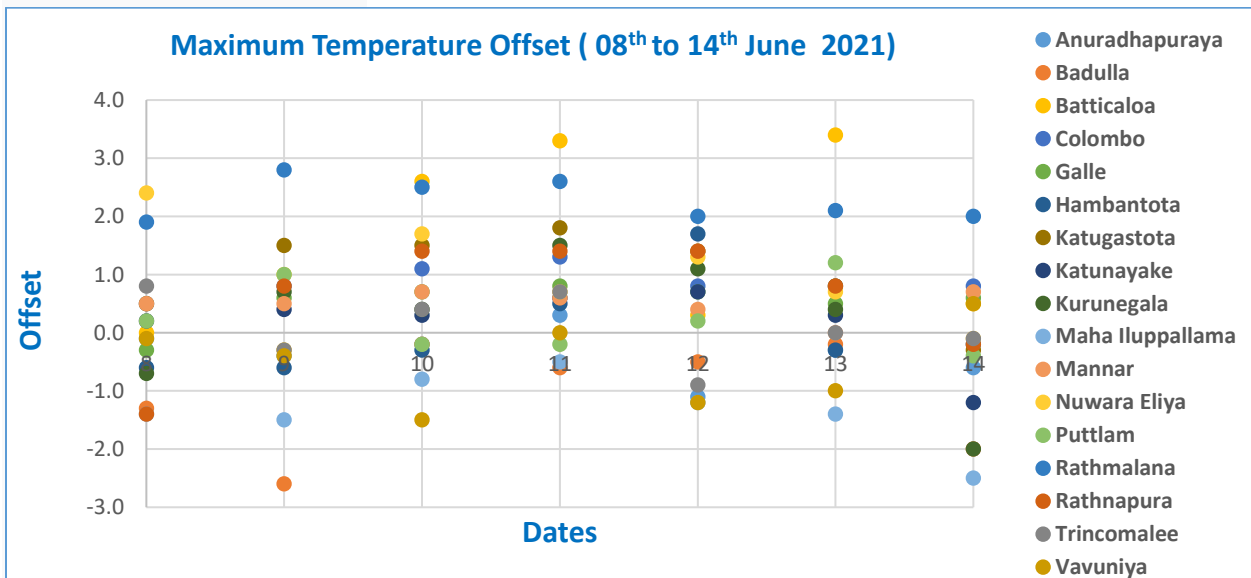


Fig 3.b: maximum temperature anomaly

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 12.5 °C was reported as usual from Nuwara-Eliya station on 11th June. The weekly highest minimum temperature 28.3 °C, was reported at Mannar on 10th (Fig 4.a) as well as Jaffna on 13th June. Except of a few stations, above normal minimum temperatures had been reported from all most all main Meteorological stations throughout the week. Highest positive anomaly of minimum temperature 2.8 °C was reported at Rathmalana (Fig 4.b) on 12th June. Lowest negative anomaly of minimum temperature, 3.9 °C was reported at Katunayake station on 14th.

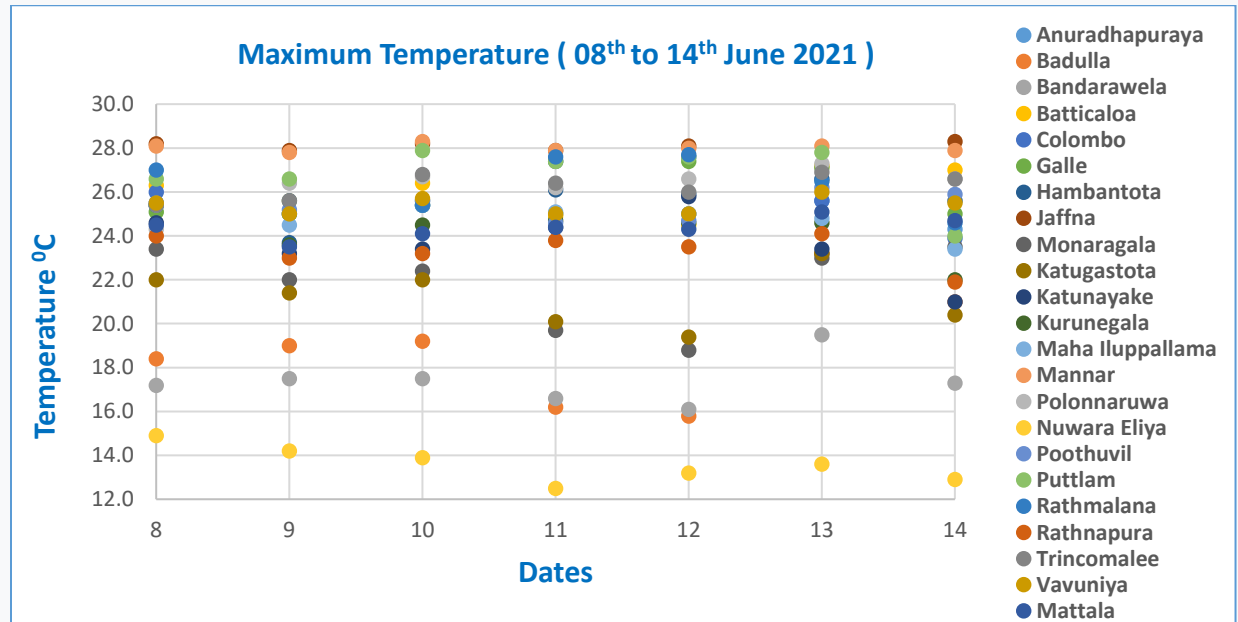


Fig 4.a: minimum temperature

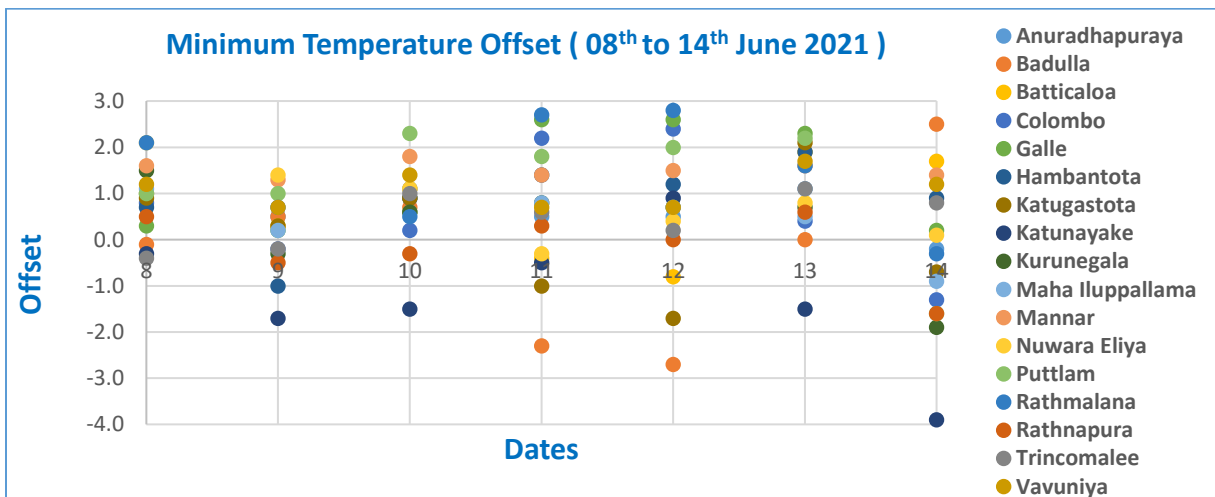


Fig 4.b: anomaly of minimum temperature

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

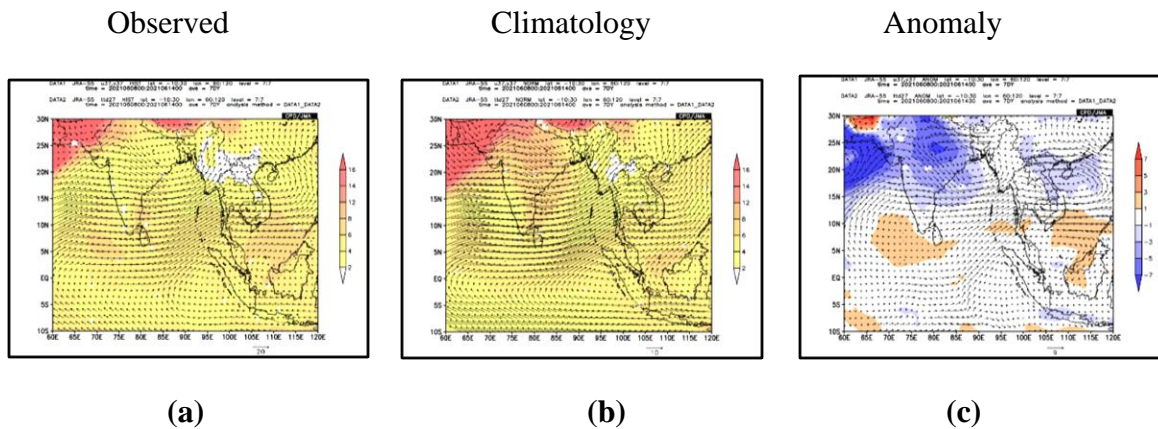
3. Wind

Light to moderate, south-westerly surface winds were prevailed over the Island during the week.

Upper winds at 850hPa:

Fresh to strong South-westerly to Westerly winds over Sri Lanka till 12th June and then wind speed had been increased very strong.

Westerly weekly average observed winds were prevailed over the island (Figure 5.a) at 850hpa during this week. Northwesterly to westerly, climatological (Figure 5.b) winds are prevailed over the Island during this week. There was Southwesterly or variable, wind anomaly and near normal moist anomaly (Figure 5.c) was prevailed at 850hpa.

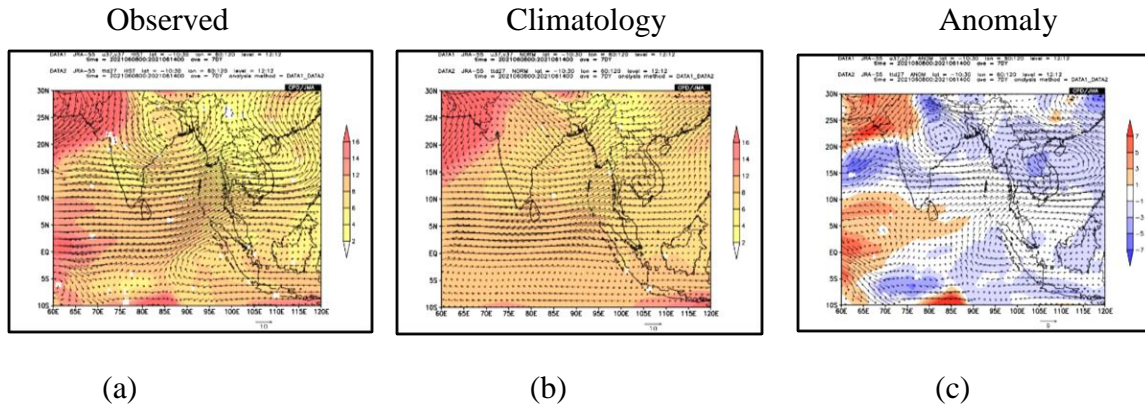


***Figure 5: wind pattern with dewpoint departures at 850hpa**

Upper winds at 700hPa:

Moderate Northwesterly to westerly winds were prevailed over the country till 12th June at 700hpa. And it had been changed as Westerly, strong 13th onwards.

West-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. Westerly, dry wind anomaly (Figure 6.c) was prevailed over the country at 700hpa during this week.

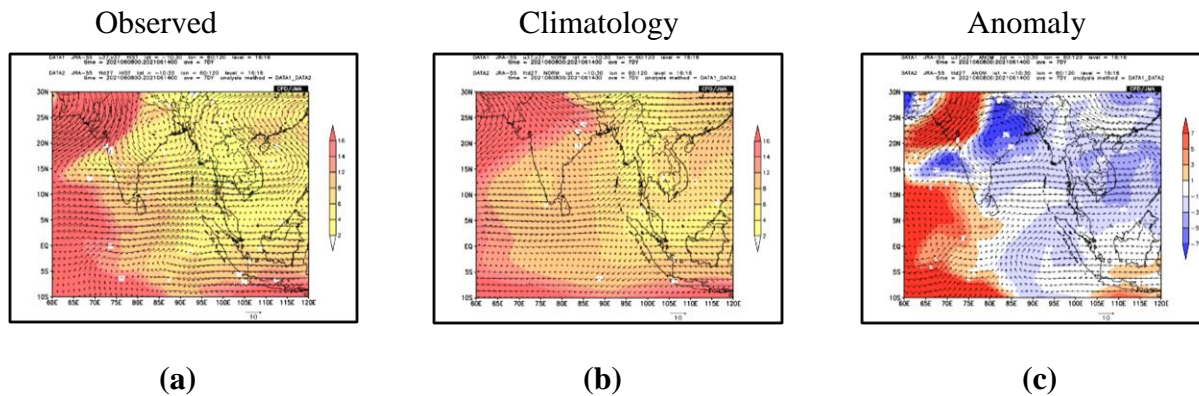


***Figure 6: wind pattern with dewpoint departures at 700hpa**

Upper winds at 500hPa:

Light variable winds over the country during the first two days of this week. Moderate to fresh Southwesterly to westerly winds were prevailed over the country until the end of this week.

Westerly, dry weekly observed (Figure 7.a) winds were over the island during this week at 500hpa. The climatological wind pattern is Northwesterly and dry (Figure 7.b) too. However, Southwesterly, wind anomaly (Figure 7.c) was prevailed over the country at 500hpa during this week. And slightly moist wind anomaly was prevailed over Northern parts and near normal moist around elsewhere during this week too.



***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				