Weekly Weather Summery

15-21 August 2021

1. Rainfall

Weak Southwest monsoon conditions were continued during the beginning of this week. Some showers had been reported in western, Sabaragamuwa, Uva and Eastern provinces (Figure 1) during this week. Further, some showers had received in southwestern parts and afternoon or evening thunder showers had reported from Uva and Eastern provinces.

Some showers had reported in southwestern parts on 16th, 17th and 18th August (Figure 2). Afternoon thunder showers were reported in Eastern and Uva province on 20th August. Fairly widespread showers were reported on 21st August.

Light to moderate rainfall had been reported from hydro catchment stations which are located in western slope of the central hills, on 17th and 18th August. Further, moderate to fairly heavy rainfall had reported from hydro catchment areas which are located in Eastern slope of the central hills on 20th and 21st August.

Highest daily (24 hour) rainfall, 71.5 mm was reported from Welioya (Mulativu district) on 07th August. Highest weekly total rainfall, 129.0 mm was reported from Canewarella (Bandarawela district) rain gauge during this week.

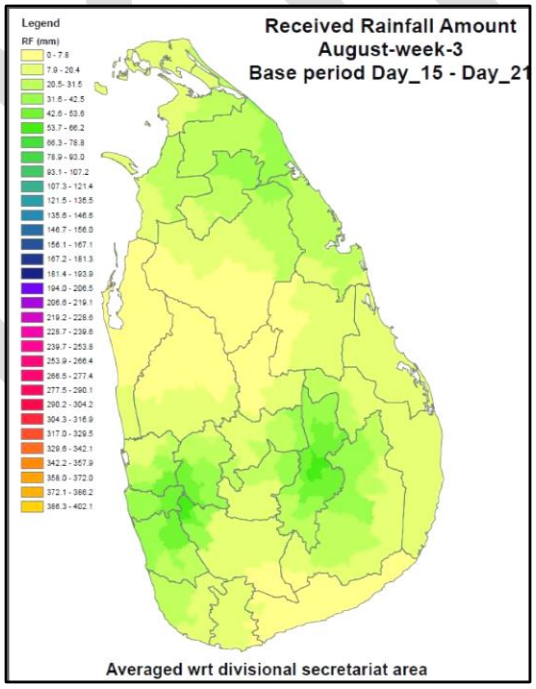


Figure 1: Total rainfall (mm) during the week

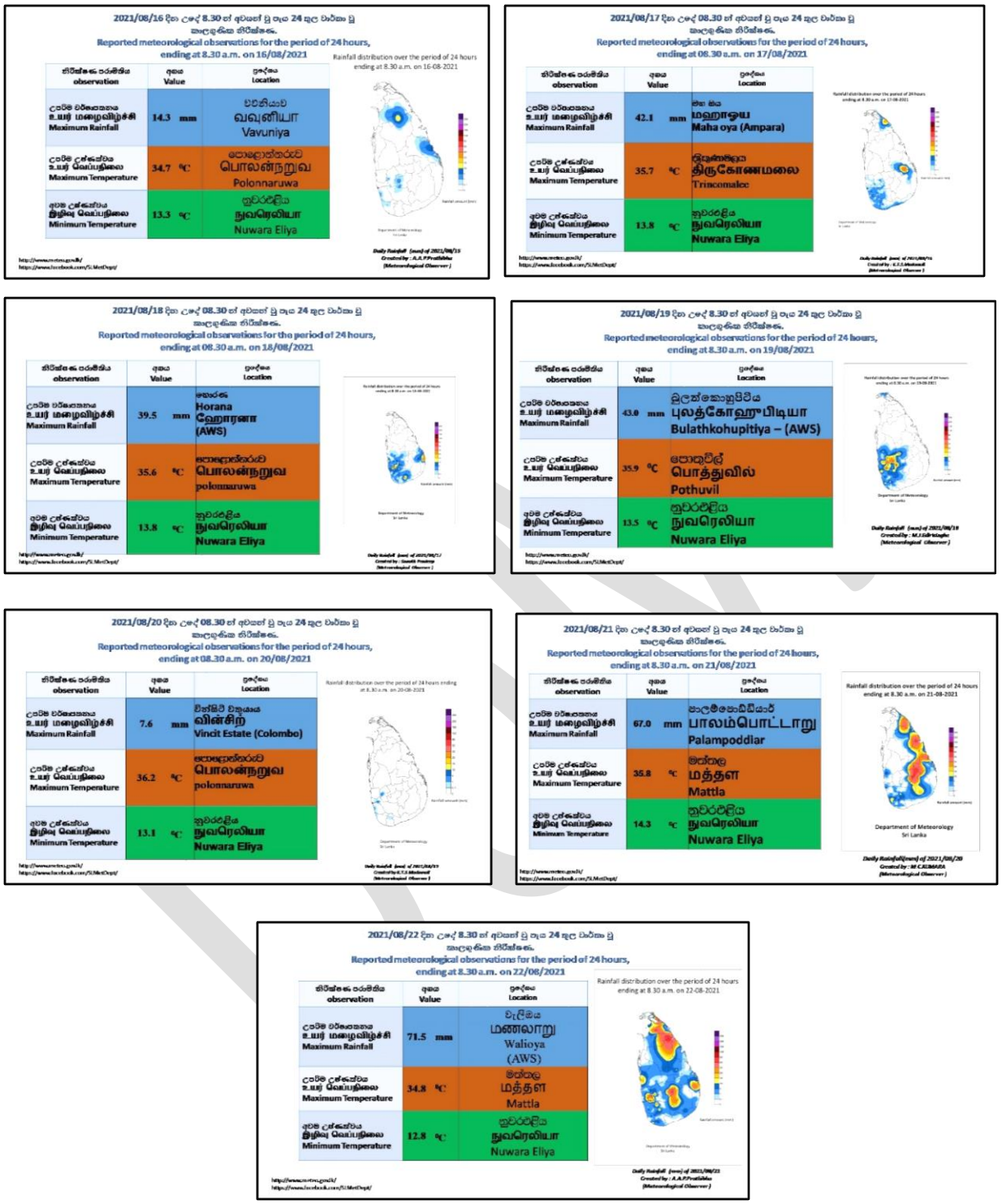


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (^{0}C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	4.9
Badulla	52.4
Bandarawela	48.8
Batticaloa	3.6
Colombo	21.1
Galle	29.6
Hambanthota	13.2
Jaffna	0.0
Monaragala	13.9
Katugasthota	19.6
Katunayake	25.8
Kurunagala	10.2
MahaIlluppallama	2.4
Mannar	1.0
Polonnaruwa	21.5
Nuwara Eliya	13.5
Pothuvil	0.0
Puttalam	0.3
Rathmalana	15.0
Rathnapura	46.7
Trincomalee	18.3
Vavuniya	33.7
Mattala	0.4

Hydro-Catchment Areas	
Station	**Rainfall (mm)**
Castlereigh	23.4
Norton	43.5
Maussakele	14.3
Canyon	25.3
Laksapana	29.6
Upper kotmalee	20.8
Kotmalee	22.6
Victoriya	7.7
Randenigala	112.5
Rantambe	88.9
Bowatenna	3.8
Ukuwela	28.2
Samanala Wewa	0.0
Kukuleganga	10.0
Maskeliya	4.0

Rain Gauge Stations	
Station	**Rainfall (mm)**
Canawarella	129.0
Padukka Estate	107.6
Yatiyanthota	81.2
Labugama	81.1
Elston	77.7
Kurunduoya	70.1
Palampoddar	68.9
Kalatuwawa	68.1
Shetticulam	68.0

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, 36.2 ^{0}C was reported from Polonnaruwa on 19th August (Fig 3.a). Further, same station had reported highest day time temperature on 15th and 17th too. Nuwara Eliya was reported its highest maximum temperature 21.7^{0}C, on 20th August.

Except of 15th, 18th and 21st, above normal maximum temperatures had reported in almost all stations throughout the week (Fig 3.b). Weekly highest positive anomaly of maximum temperature, 3.8^{0}C reported at Hambantota on 19th. And weekly lowest negative anomaly of maximum temperature, 3.7^{0}C at Badulla on 21st August.

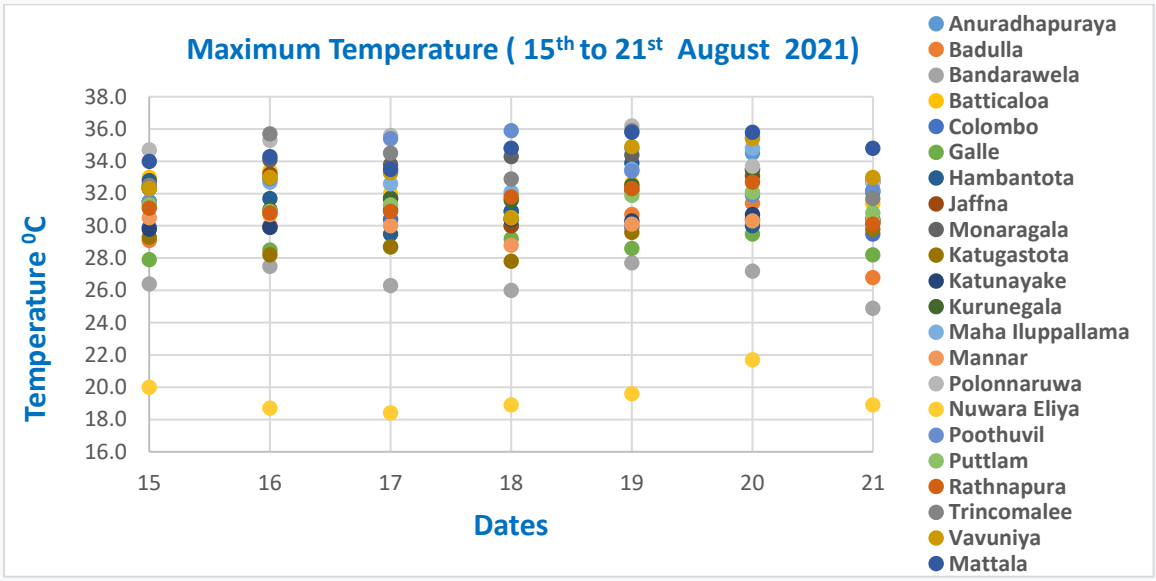


Fig 3.a: maximum temperature

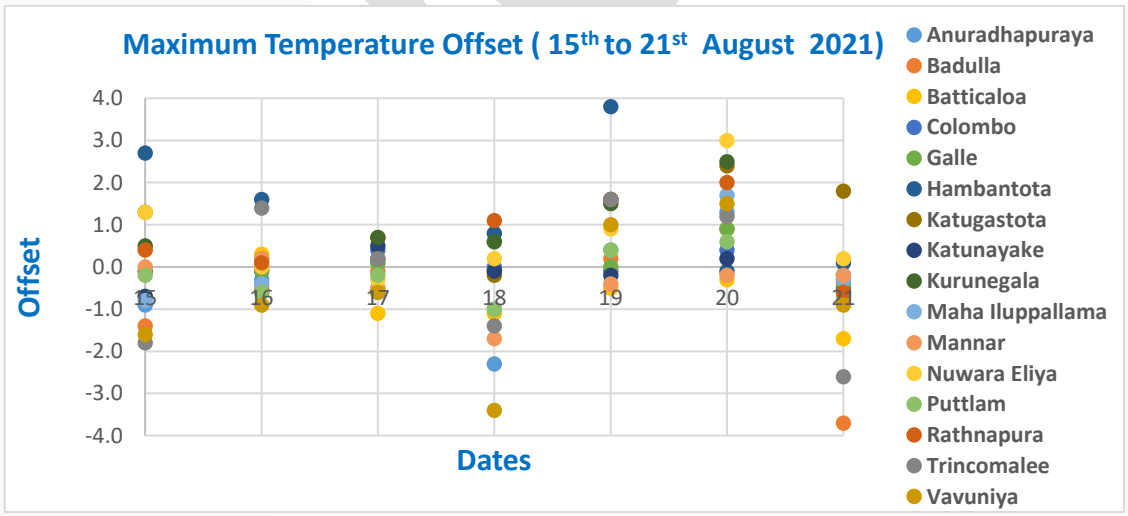


Fig 3.b: maximum temperature anomaly

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 12.6 ^{0}C was reported as usual from Nuwara-Eliya station on 15th August. The weekly highest minimum temperature 27.3 ^{0}C, was reported at Polonnaruwa on 16th (Fig 4.a). Except of a few stations on 20th and 21st, above normal minimum temperatures had been reported from all most all main Meteorological stations during this week (Fig 4.b). Highest positive anomaly of minimum temperature 2.2 ^{0}C was reported at Ratmalana on 21st August. Lowest negative anomaly of minimum temperature, 2.1 ^{0}C was reported at Badulla and Trincomalee on 20th and 21st August respectively.

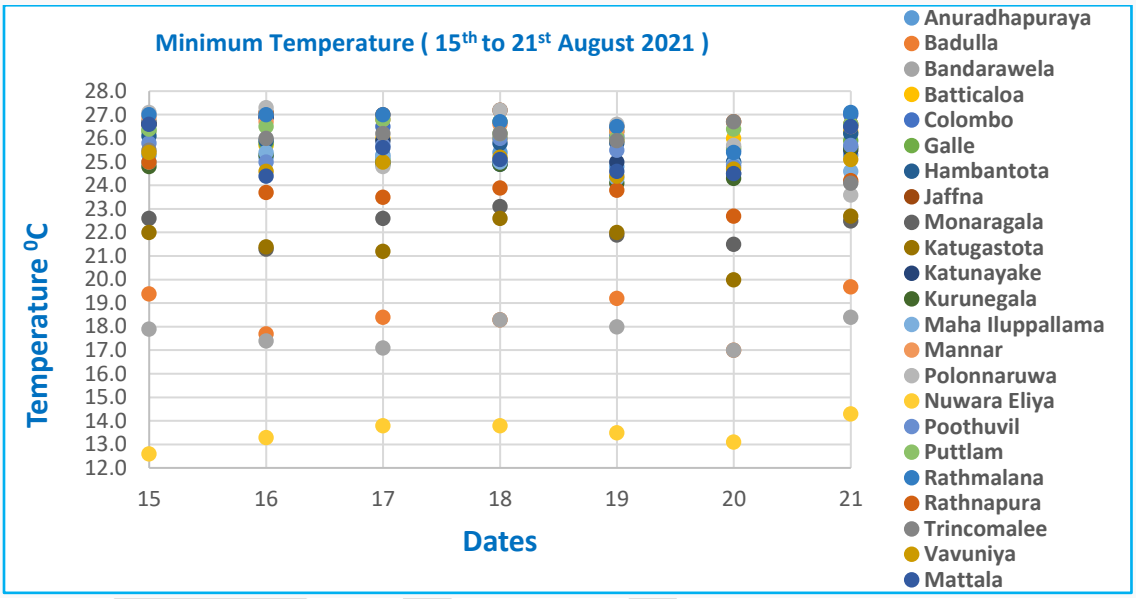


Fig 4.a: minimum temperature

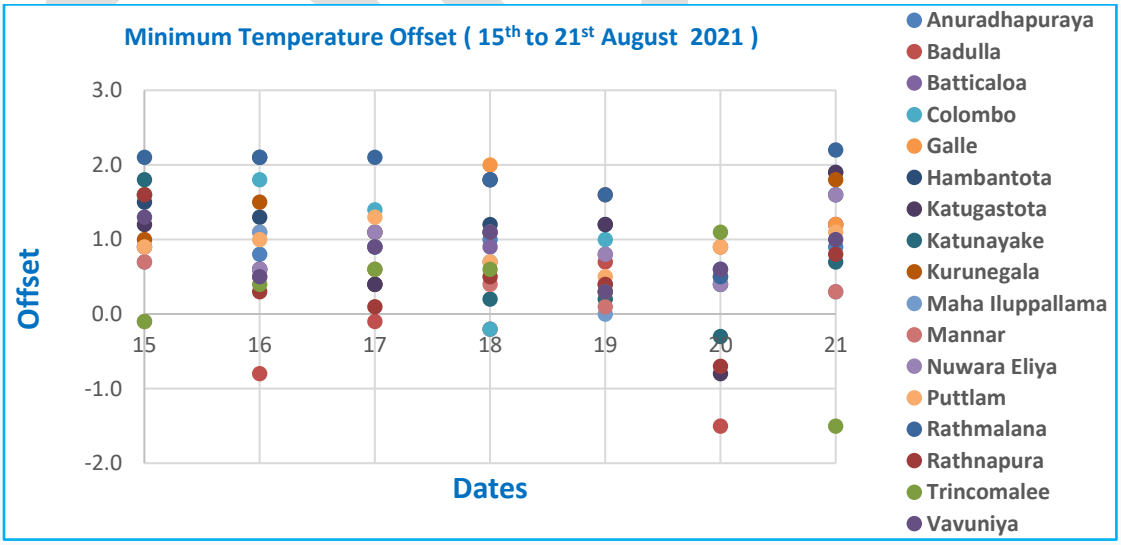


Fig 4.b: anomaly of minimum temperature

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

3. Wind

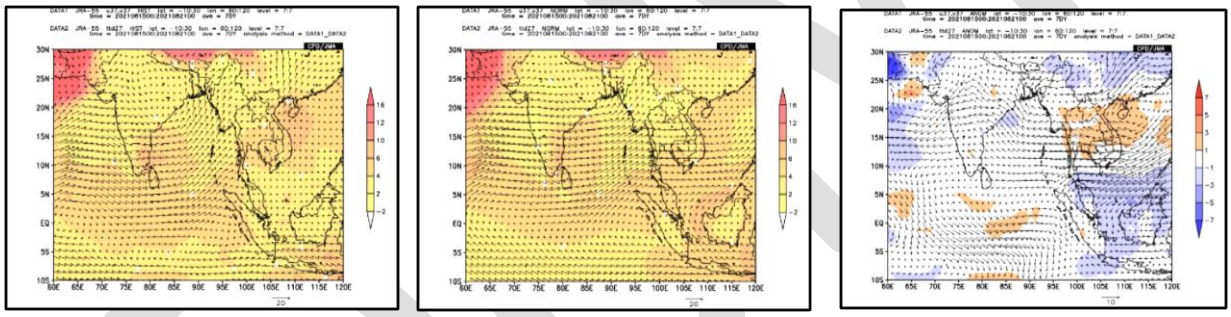
Light or light to moderate southwesterly or Westerly, surface winds were prevailed over the Island during this week. Mild or moderate Southwesterly pressure gradient was prevailed in between Colombo and Trincomalee during this week.

Upper winds at 850hPa:

Moderate North-westerly winds were prevailed over the Island at the beginning of this week at 850hpa. And it was Southwesterly/fresh on 17th and 18th August. Light to moderate Northwesterly winds were prevailed over the Island during the latter part of this week.

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

Observed Climatology Anomaly



(a) **(b)** **(c)**

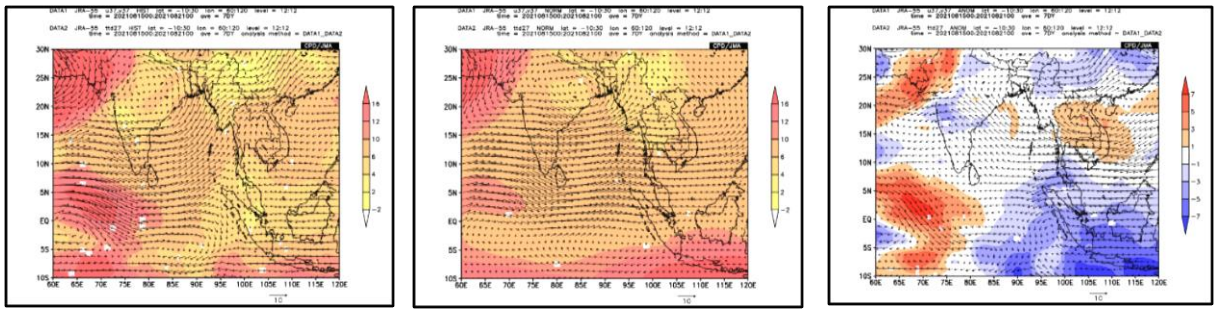
***Figure 5: wind pattern with dewpoint departures at 850hpa**

Upper winds at 700hPa:

Except of 17th and 18th August, moderate North-westerly to westerly winds were prevailed over the Island during this week where it was Southwesterly 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. Southeasterly/light, near normal moist wind anomaly (Figure 6.c) was prevailed over the country at 700hpa.

Observed Climatology Anomaly



(a) (b) (c)

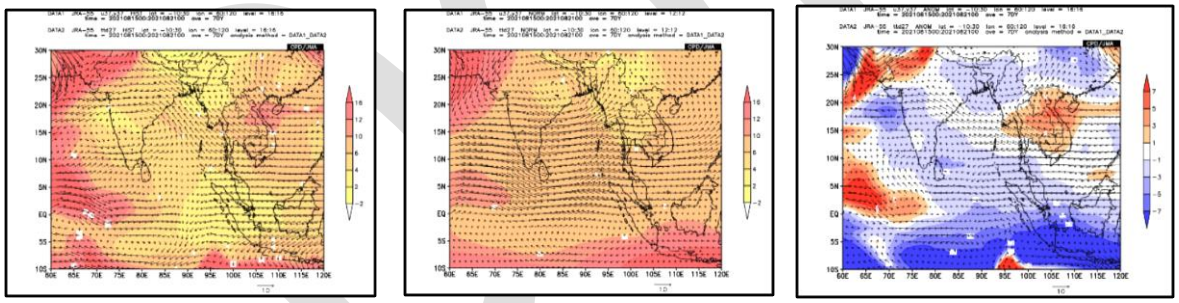
***Figure 6: wind pattern with dewpoint departures at 700hpa**

Upper winds at 500hPa:

Except of 17th and 18th August, light to moderate or light variable winds were prevailed over the Island where it was westerly or southwesterly/light to moderate.

Westerly to south-westerly, dry weekly average 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). However, Easterly to Southeasterly/light and slightly moist 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		