

Weekly Weather Summary

22-30 April 2021

1. Rainfall

Scattered afternoon thunder showers were continued over the Island during this week. Fairly widespread afternoon thunder showers had been reported from Southwestern parts in some days and rainy condition was enhanced on 22nd April. Western coastal areas received more rainfall on 23rd, 24th and 29th April. Northern, North-Central, Northern and Eastern provinces received afternoon thunder showers in remaining days of this week. Further, fairly widespread afternoon thunder showers had been reported from Ampara district on 27th, 28th and 30th April.

Except of 22nd, no significant rainfall had been reported from hydro catchment areas where it was light to moderate showers with very heavy rainfall at Kukuleganga.

Overall, more showers were limited to the Western coastal (Fig 1) areas during this week.

Highest daily accumulated (24 hour) rainfall, 160.0 mm was reported from Kukuleganga on 22nd April and highest weekly total rainfall, 305.8 mm was reported from the Guruluwana rain gauge.

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.

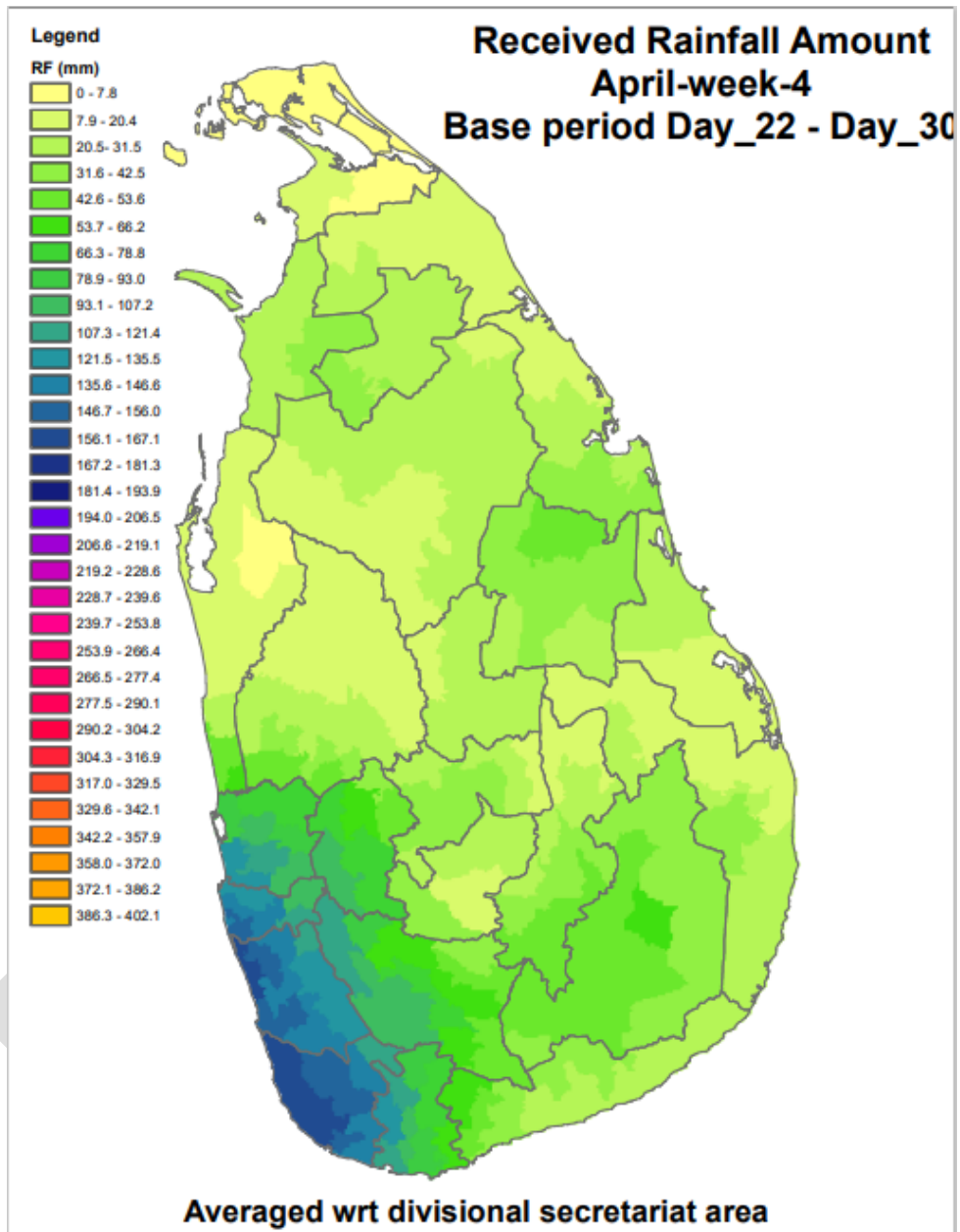


Figure 1: Total rainfall (mm) during the week

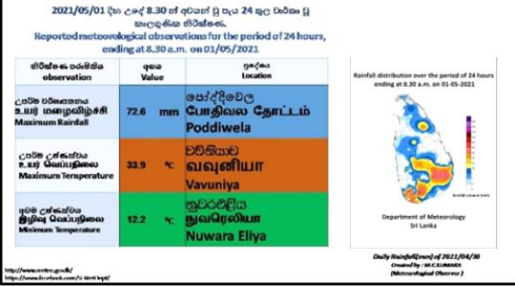
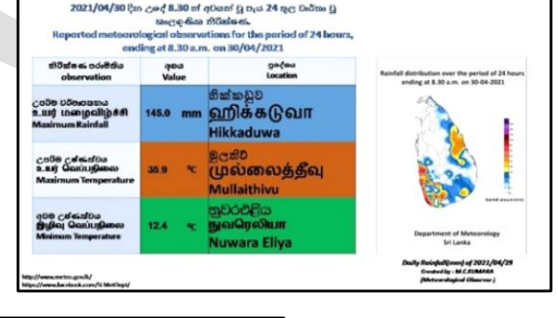
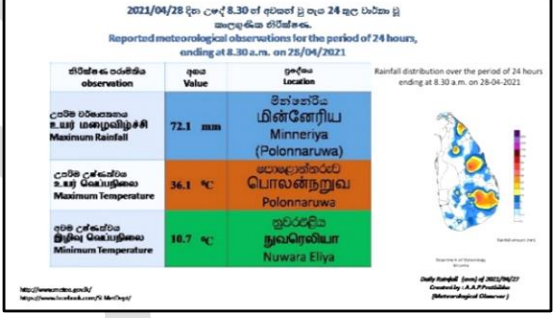
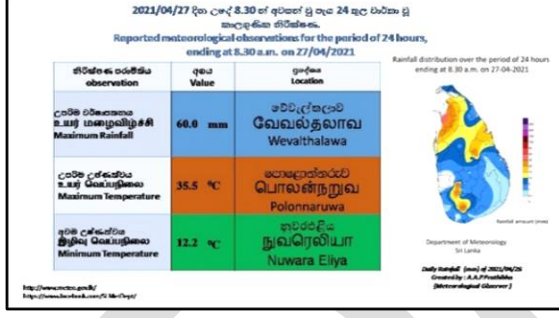
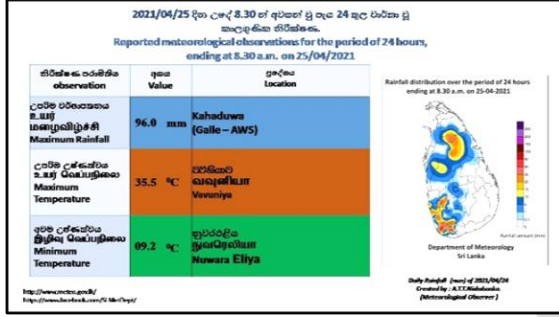
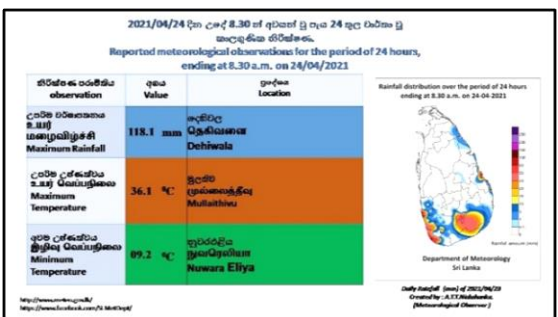


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures ($^{\circ}$ C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	35.3
Badulla	36.1
Bandarawela	46.6
Batticaloa	0
Colombo	234.3
Galle	247.4
Hambanthota	12.7
Jaffna	10.5
Monaragala	85.6
Katugasthota	40.5
Katunayake	149.5
Kurunagala	13.4
Maha Illuppallama	26.2
Mannar	42.3
Polonnaruwa	42.2
Nuwara Eliya	6.2
Pothuvil	0
Puttalam	15.6
Rathmalana	178.3
Rathnapura	79.5
Trincomalee	25.2
Vavuniya	58
Mattla	30.7

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	10.8
Norton	11.6
Maussakele	9
Canyon	24.9
Lakshapana	65.3
Upper Kotmale	2.6
Kotmale	4.5
Victoriya	21
Randenigala	51.4
Rantambe	6.4
Bowatenna	10.2
Ukuwela	44.8
Samanala Wawa	51.5
Kukuleganaga	186
Maskeliya	0
Neboda	10.8

Station	Rainfall (mm)
Guruluwana	305.8
Monrovia	235.3
Kalutara	244.8
Vogan Estate	225.6
Dehiwala	217.7
Baddegama	208.2
Elston	170.7
BATUWANAGALA	164.6
PODDIWELA FARM	162.8
Colombo Fort	155.7
Guruluwana	305.8
Monrovia	235.3
Kalutara	244.8

Table-01 Total Rainfall (mm) at Main Meteorological stations, hydro catchment areas and other maximum rainfall areas during the week.

2. Temperature

2.1 Maximum temperature

The highest day time (maximum) temperature, 36.1 °C was reported from Polonnaruwa on 27th April (Figure 3.a). Further, same station had been reported daily highest maximum temperature in some days. Nuwara Eliya was reported its highest maximum temperature 23.3°C, on 25th. Except of 25th and 30th, above normal maximum temperatures had been reported from many stations throughout the week. Weekly highest positive anomaly of maximum temperature, 2.2°C reported at Trincomalee on 23rd April. And lowest negative anomaly of maximum temperature, 3.8°C reported at Colombo on 23rd as well.

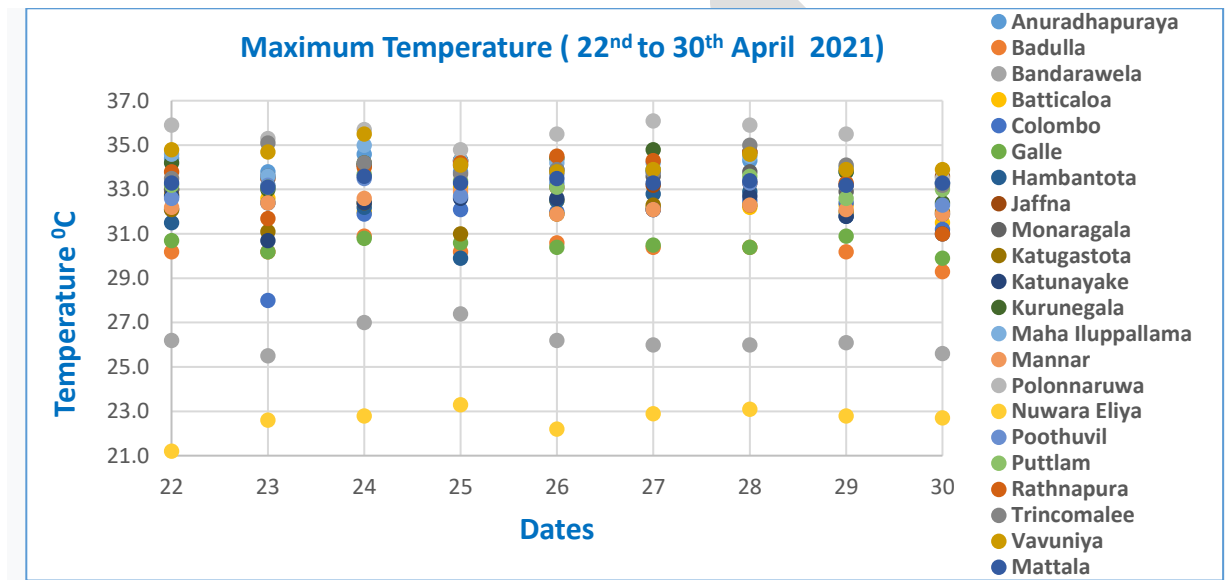


Fig 3.a: maximum temperature

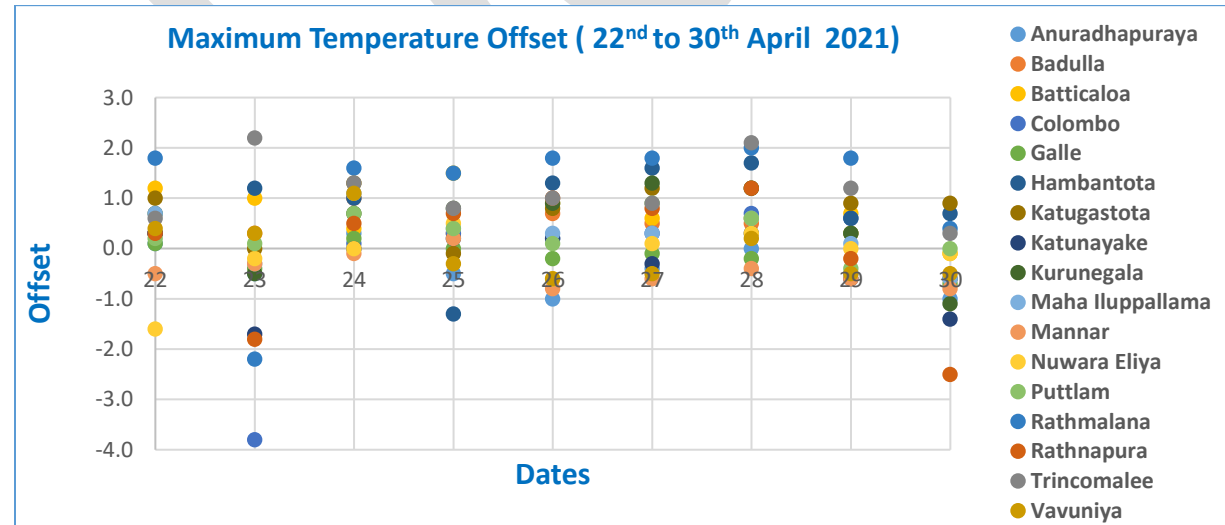


Fig 3.b: maximum temperature anomaly

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

2.2 Minimum temperature

The weekly lowest minimum temperature, 8.7 °C was reported as usual from Nuwara-Eliya station on 26th April. The weekly highest minimum temperature 29.0 °C, was reported at Mannar on 29th (Fig 4.a). Except of few stations, above normal minimum temperatures had been reported in many stations throughout the week. Highest positive anomaly of minimum temperature 3.0 °C was reported at Galle and Rathmalana (Fig 4.b) on 23rd and 29th respectively. Lowest negative anomaly of minimum temperature 2.7 °C was reported at Nuwara-Eliya on 26th April.

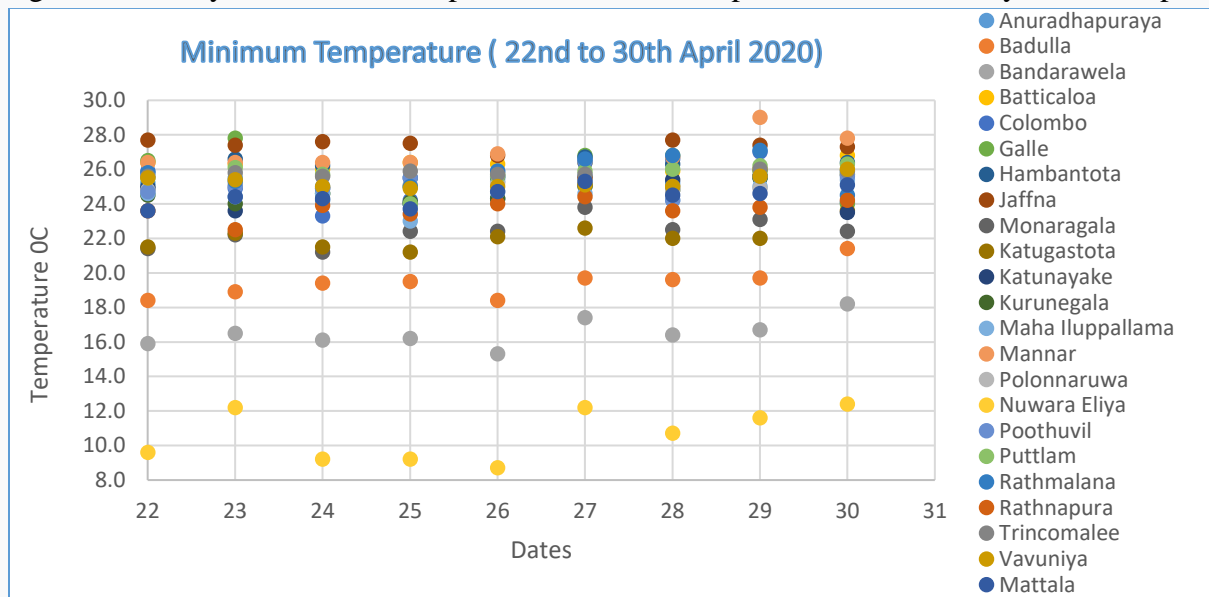


Fig 4.a: minimum temperature

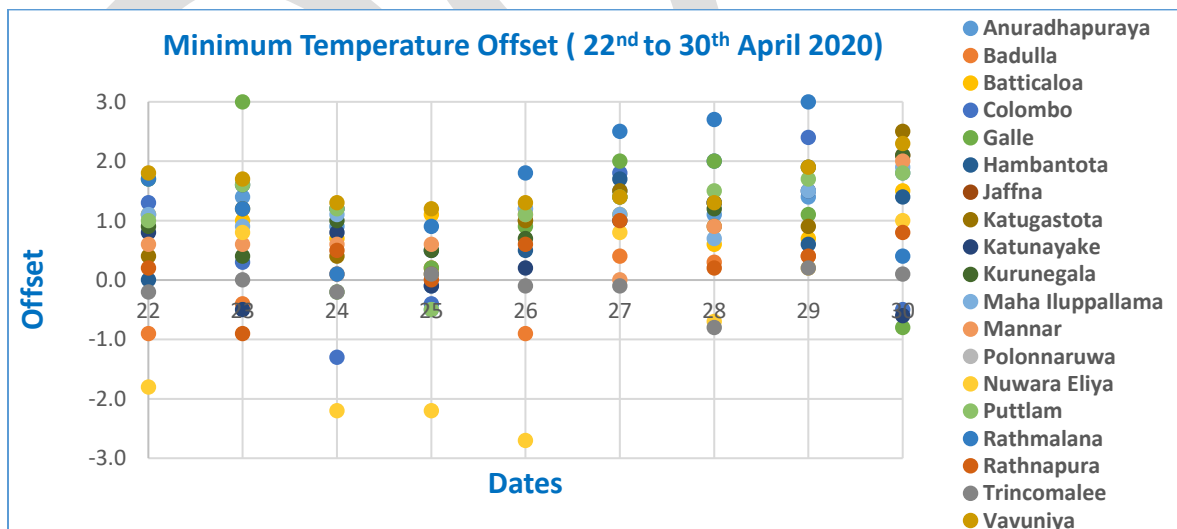


Fig 4.b: anomaly of minimum temperature

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

3. Wind

Light, variable surface winds were prevailed over the country during the first two days of this week. Light, Southwesterly winds were prevailed over the Island during the entire period. However, RH values were high throughout the week.

Upper level winds at 850hPa:

Light variable or Northeasterly winds were prevailed over Sri Lanka throughout the week.

Light Westerly weekly average observed winds were prevailed over the island (Figure 4.a) and climatological winds are northwesterly to westerly (Figure 4.b) at 850hpa during this week. Light variable (Figure 4.c) wind anomaly and climatologically near normal moisture conditions were prevailed over the country at 850hpa during this week.

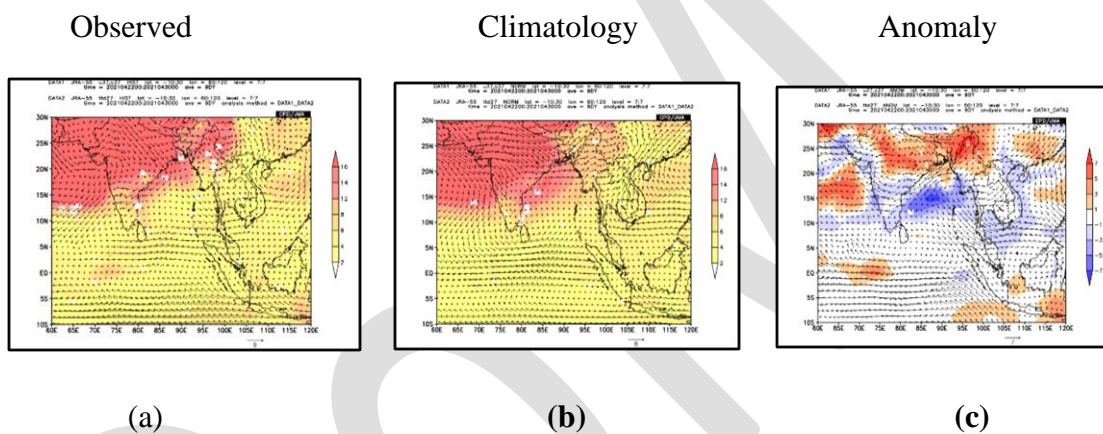


Figure 4: wind pattern with dewpoint departures at 850hpa

Upper level winds at 700hPa:

Light Northeasterly, winds were prevailed and Northeast-Southwest oriented trough axis over the country. It was varying North, South direction throughout the week.

Weekly averaged Observed winds were dry, Northerly (Figure 5.a) and dry, northeasterly climatological (Figure 5.b) winds are prevailed over the country too at 700hPa level during this week. Westerly dry wind anomaly (Figure 5.c) was prevailed over the at 700hpa during this week.

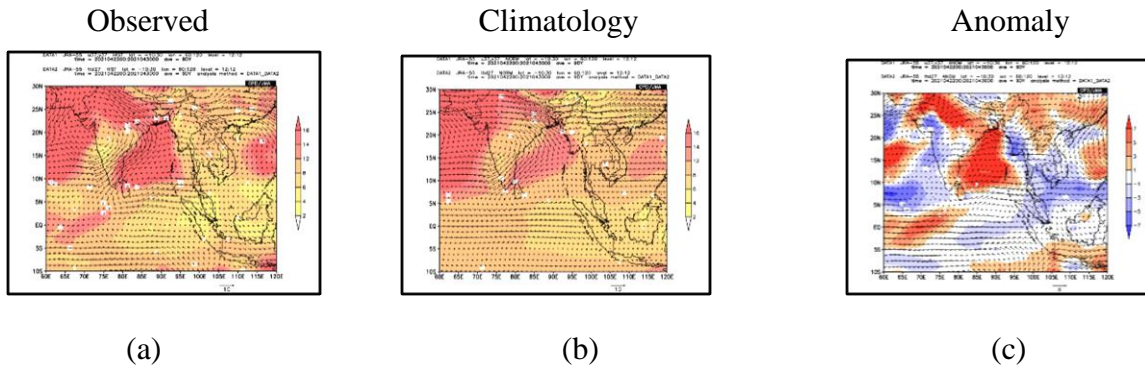


Figure 5: wind pattern with dewpoint departures at 700hpa

Upper level winds at 500hPa:

Light Northeasterly to Northerly winds were prevailed over the country.

Weekly average observed (Figure 6.a) winds were slightly dry and Northeasterly over the island during this week. The climatological wind pattern is Easterly over the country (Figure 6.b). However, light, Northerly and dry wind anomaly (Figure 6.c) was prevailed over the Island at 500hpa during this week.

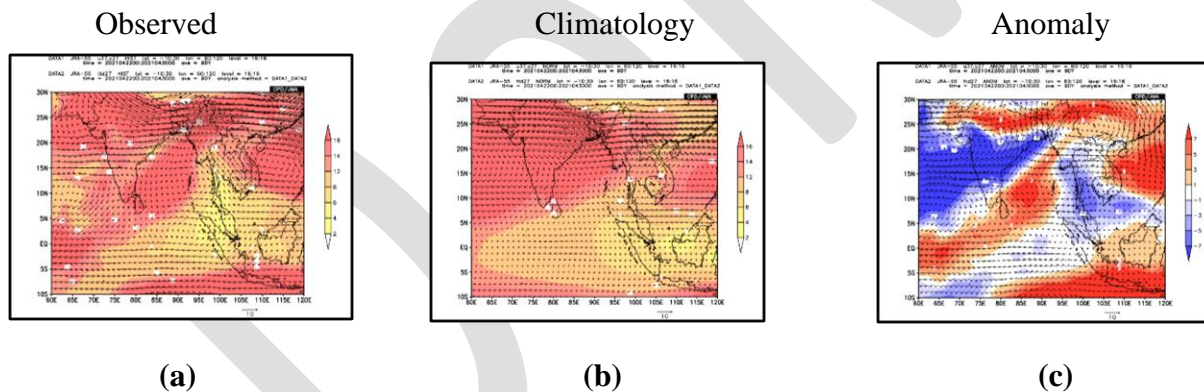


Figure 6: wind pattern with dewpoint departures at 500hpa

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		