

# Weekly Weather Summery

## 08 -14 November 2020

### 1. Rainfall

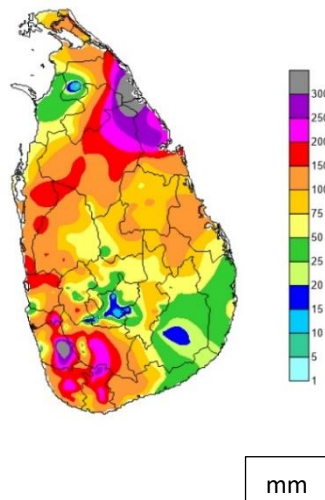
Inter-monsoon conditions had been enhanced during the first two days of the week. And heavy rainfall had been reported over most parts of the Island on 08<sup>th</sup> and 09<sup>th</sup> November. Afternoon or night thunder showers had been received at Jaffna, Colombo, Gampaha, Rathnapura, Anuradhapura and Polonnaruwa districts throughout the week. However, higher rainfall had been received first and last two days than other days. Very heavy rainfall had been made by wind convergence in the northern parts on 09<sup>th</sup> November as well as occasionally heavy rainfall had been reported in Anuradhapura district. Fairly heavy to heavy rainfall had been reported at Polonnaruwa districts on 09<sup>th</sup> as well.

Moderate to fairly heavy showers had been reported in all most all hydro catchment areas on 08<sup>th</sup> and later showers had been reported in Hydro-catchment areas which are located in eastern slope of the central hills.

Highest daily accumulated (24 hour) rainfall, 356.5mm was reported from Welioya divisional secretariat office rain gauge (Mulativu district) on 09<sup>th</sup> November. Highest weekly total rainfall, 441.5mm was reported from same station during this week as well.

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

Accumulated rainfall (08-14) November 2020



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

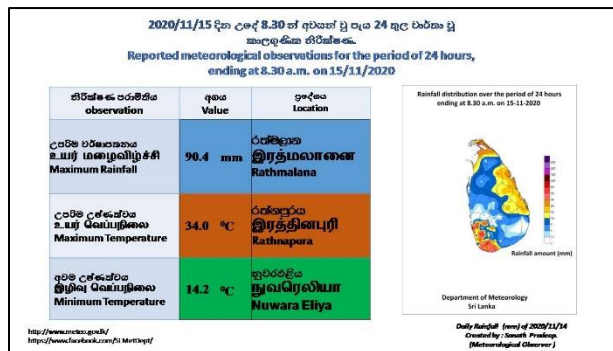
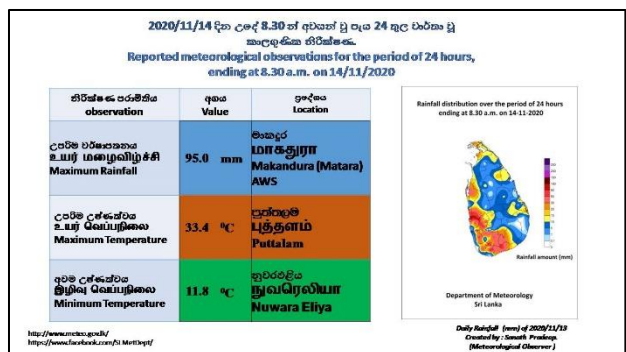
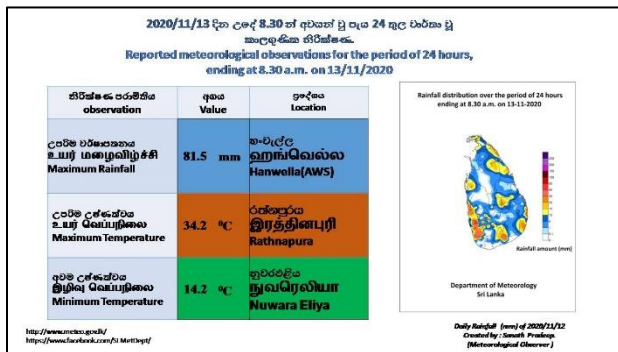
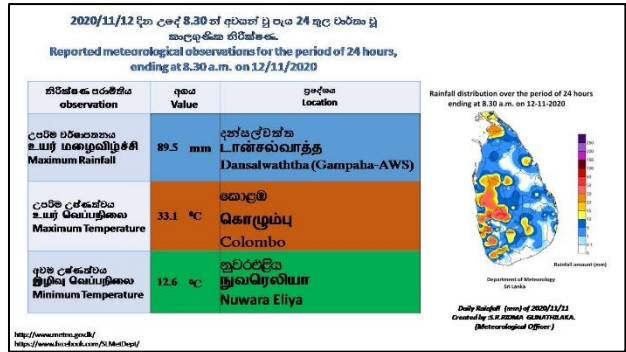
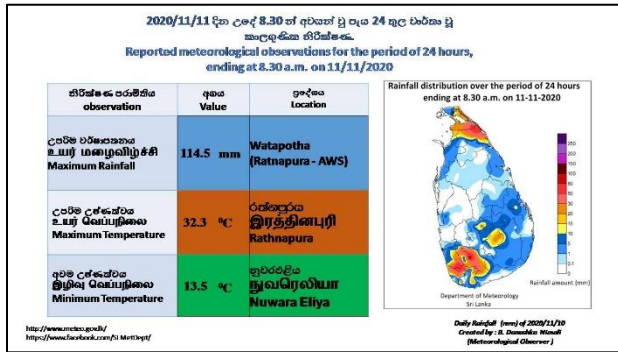
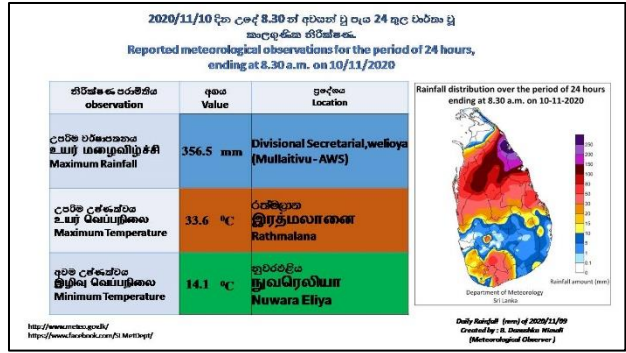
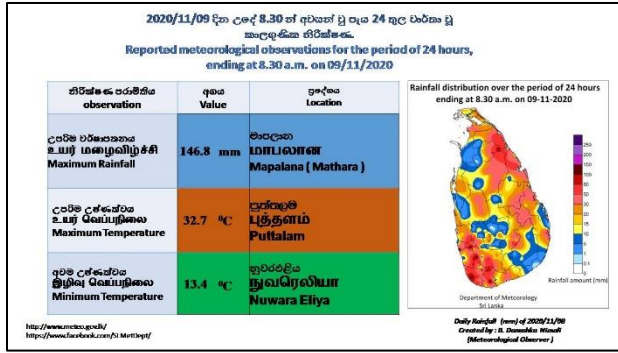


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (<sup>0</sup>C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	165.7
Badulla	95.4
Bandarawela	69.0
Batticaloa	137.4
Colombo	31.4
Galle	110.4
Hambanthota	22.7
Jaffna	90.8
Monaragala	25.7
Katugasthota	56.6
Katunayake	176.4
Kurunagala	61.9
MahaIlluppallama	106.3
Mannar	54.1
Polonnaruwa	78.4
Nuwara Eliya	23.1
Pothuvil	55.9
Puttalam	143.0
Rathmalana	146.1
Rathnapura	170.3
Trincomalee	258.3
Vavuniya	179.0
Mattala	89.7

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	32.7
Norton	35.8
Maussakele	46.3
Canyon	26.3
Lakshapana	56.5
Upper Kotmale	17.9
Kotmale	42.0
Victoriya	50.3
Randenigala	62.5
Rantambe	78.5
Bowatenna	75.2
Ukuwela	140.0
Samanala Wawa	165.5
Kukuleganaga	180.0
Maskeliya	121.9

Rain Gauge Stations	
Station	Rainfall (mm)
Deniyaya Tea Estate	256
Hanwella	259.5
Mathugama	261.5
Padukka Estate	268
Niwitigala Tea Fac	272.7
Deniyaya	275
Bogoda Tea Factory	281.5
Morapitiya Maha Vidyalaya	282.5
Palampoddar	294.5
District Hospital, Meegahatenna	299
Ethavetunu Veva	319
Alampil	333.3
Agrarian Service Center ,Alapilli	398
Divisional Secretarial ,Welioya	441.5
Pimbura Hospital	472

Tables: 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, 34.2 °C was reported from Rathnapura on 12<sup>th</sup> November (Figure 3.a). Further, same station had been reported highest maximum temperature 34.0 °C on 14<sup>th</sup> as well. Nuwara Eliya was reported its highest maximum temperature 22.3 °C, on 13<sup>th</sup>.

Except of 09<sup>th</sup> and 10<sup>th</sup>, above normal maximum temperatures were reported at many stations throughout the week. Weekly highest maximum temperature positive anomaly, 3.4°C was reported at Puttalam on 12<sup>th</sup>. And highest maximum temperature negative anomaly, 3.3°C was reported at Anuradhapura on 10<sup>th</sup>.

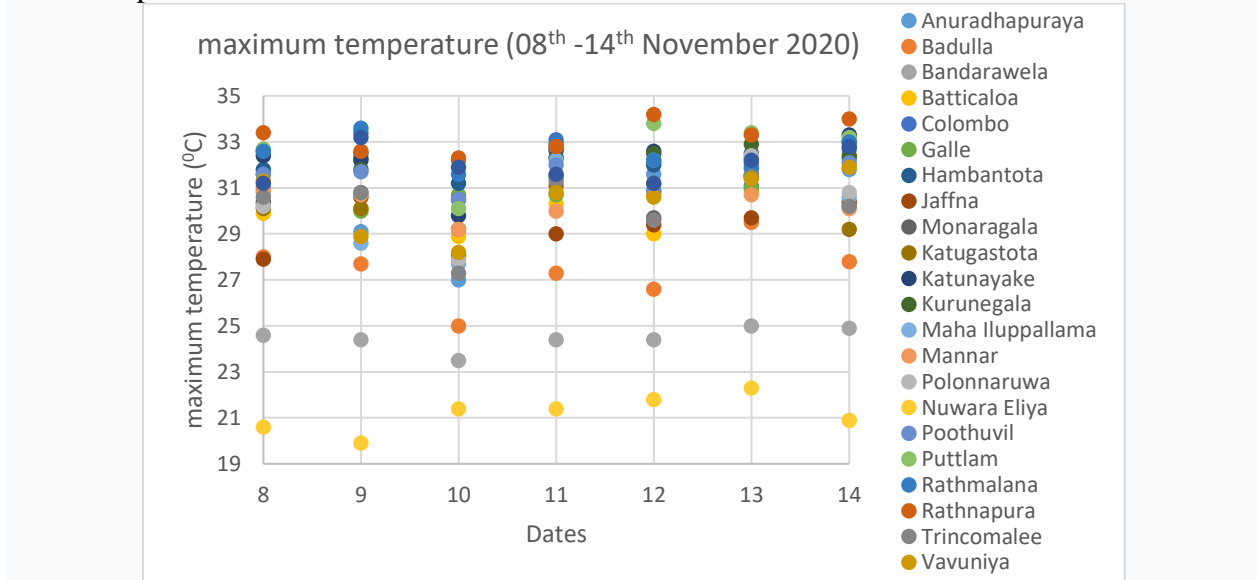


Fig 3.a: maximum temperature

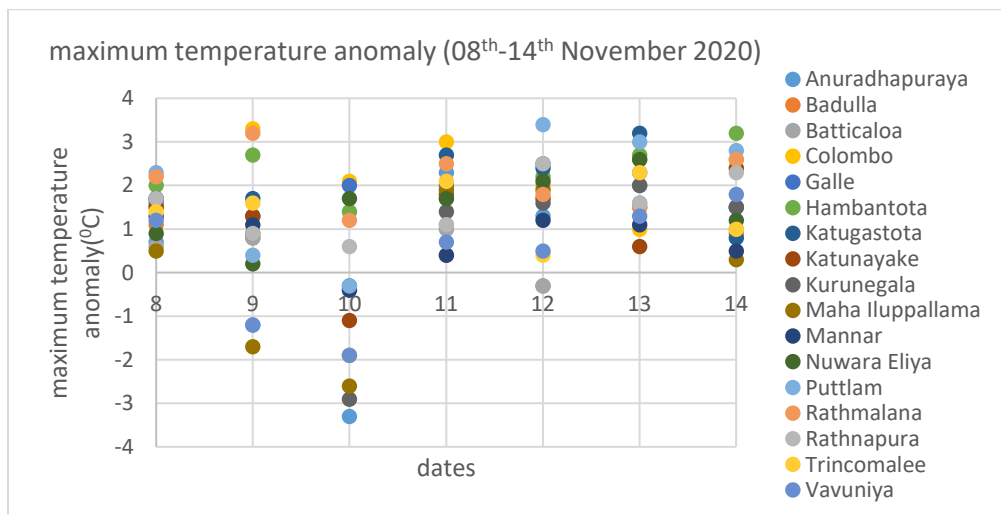


Fig 3.b: maximum temperature anomaly

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

## 2.2 Minimum temperature

The weekly lowest minimum temperature, 12.6 °C was reported as usual from Nuwara-Eliya station on 12<sup>th</sup> November. The weekly highest minimum temperature 26.7 °C, was reported at Jaffna on 10<sup>th</sup> (Fig 3.c). Above normal minimum temperatures had been reported at many stations throughout the week (Fig 3.d). Highest positive anomaly of minimum temperature, 2.7 °C was reported at Katunayaka and Nuwara-Eliya (Fig 3.d) on 12<sup>th</sup> and 13<sup>th</sup> respectively. Highest negative anomaly of minimum temperature, 0.5 °C was reported at Trincomalee on 10<sup>th</sup>.

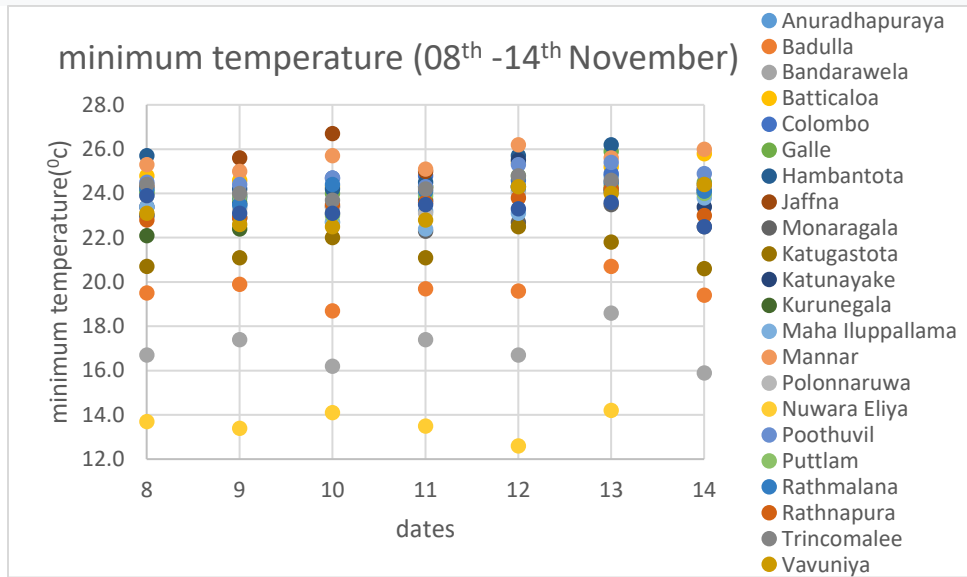


Fig 3.c: minimum temperature

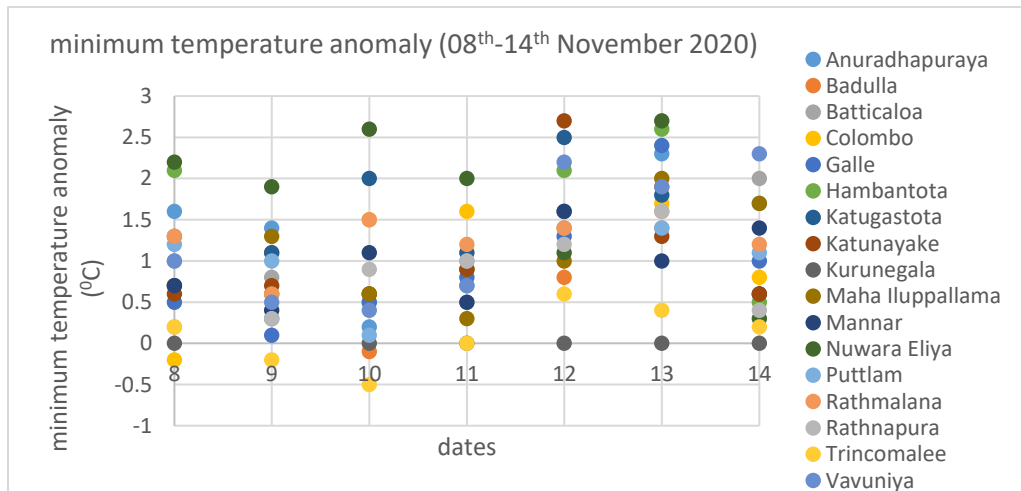


Fig 3.d: anomaly of minimum temperature

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

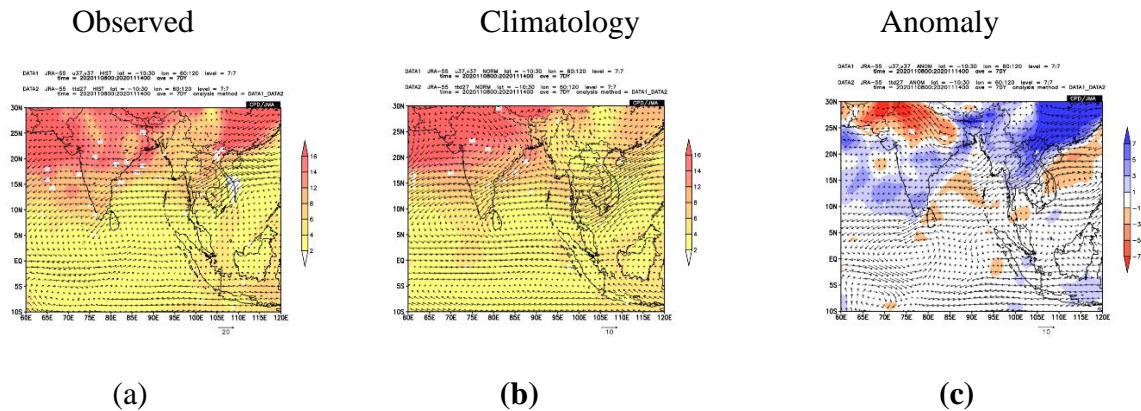
### 3. Winds

Light or light to moderate southwesterly surface winds were prevailed during this week.

#### Upper winds at 850hPa:

Light to moderate or moderate northeasterly winds were prevailed over the Island throughout the week. Temporary mild circulation was existing in southern parts of the Island on 12<sup>th</sup> November and east-west oriented trough axis over southern half of the country later part of this week too.

Easterly to northeasterly weekly average observed winds were prevailed over the island (Figure 4.a) and temporary mild cyclonic circulation over southern sea area at 850hpa during this week. Northeasterly to northerly climatological (Figure 4.b) winds are prevailed over the Island and mild cyclonic circulation over southeastern sea area. Easterly dry wind anomaly (Figure 4.c) was prevailed over northern half of the country and southeasterly to easterly wind anomaly was prevailed over elsewhere at 850hpa during this week.

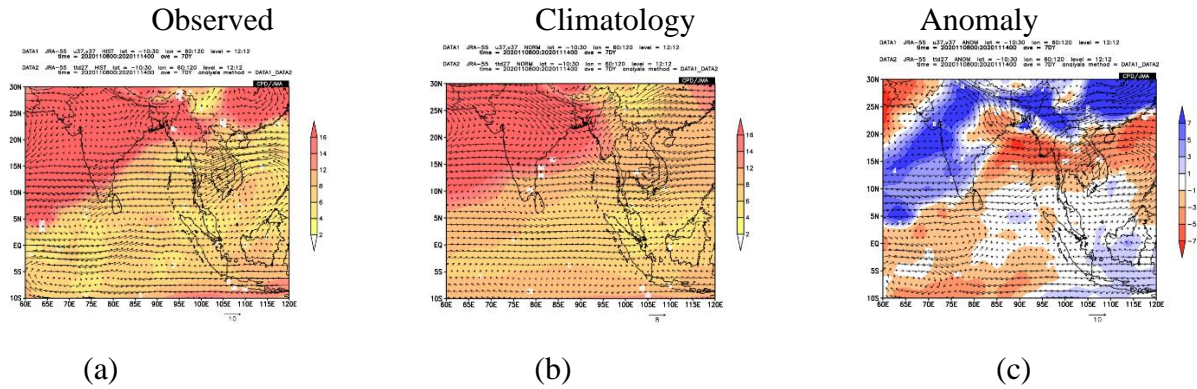


**Figure 4: wind pattern with dewpoint departures at 850hpa**

#### Upper winds at 700hPa:

Light to moderate or moderate northeasterly to easterly winds were prevailed over the country throughout the week. And temporary mild circulation was existing over southern half of the country on 12<sup>th</sup> November.

Easterly to northeasterly weekly average observed winds were prevailed over the island (Figure 5.a) and mild cyclonic circulation was existing over southern sea area at 700hpa during this week. Northerly to cyclonic climatological (Figure 5.b) winds are prevailed over the Island and mild cyclonic circulation was existing over southeastern sea area. Easterly dry wind anomaly (Figure 5.c) was prevailed over the country at 700hpa during this week.

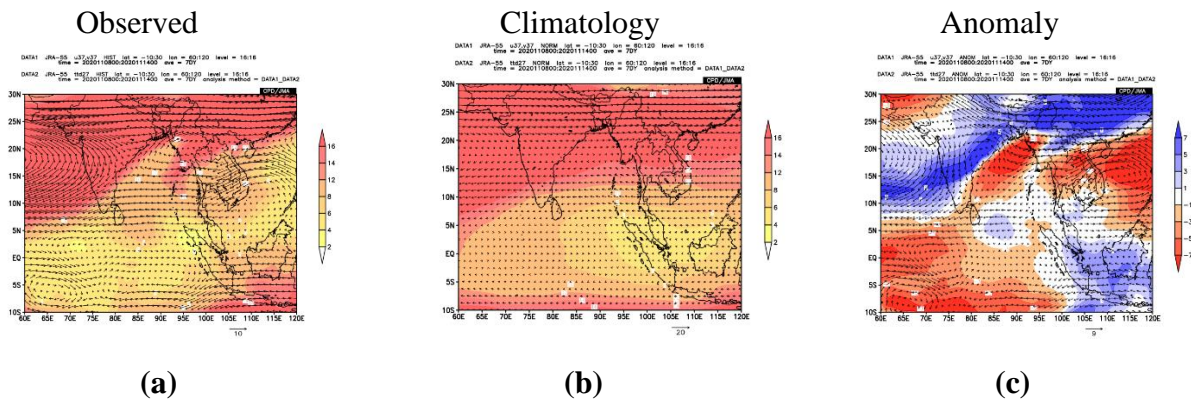


**Figure 5: wind pattern with dewpoint departures at 700hpa**

**Upper winds at 500hPa:**

Light to moderate or moderate northeasterly winds were prevailed at 500hpa and winds had been converged in northeastern parts on 09<sup>th</sup> and 10<sup>th</sup> November. Fresh, northeasterly to easterly winds were prevailed 13<sup>th</sup> onwards.

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



**Figure 6: wind pattern with dewpoint departures at 500hpa**

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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				