

# Weekly Weather Summery

**8-14 December 2019**

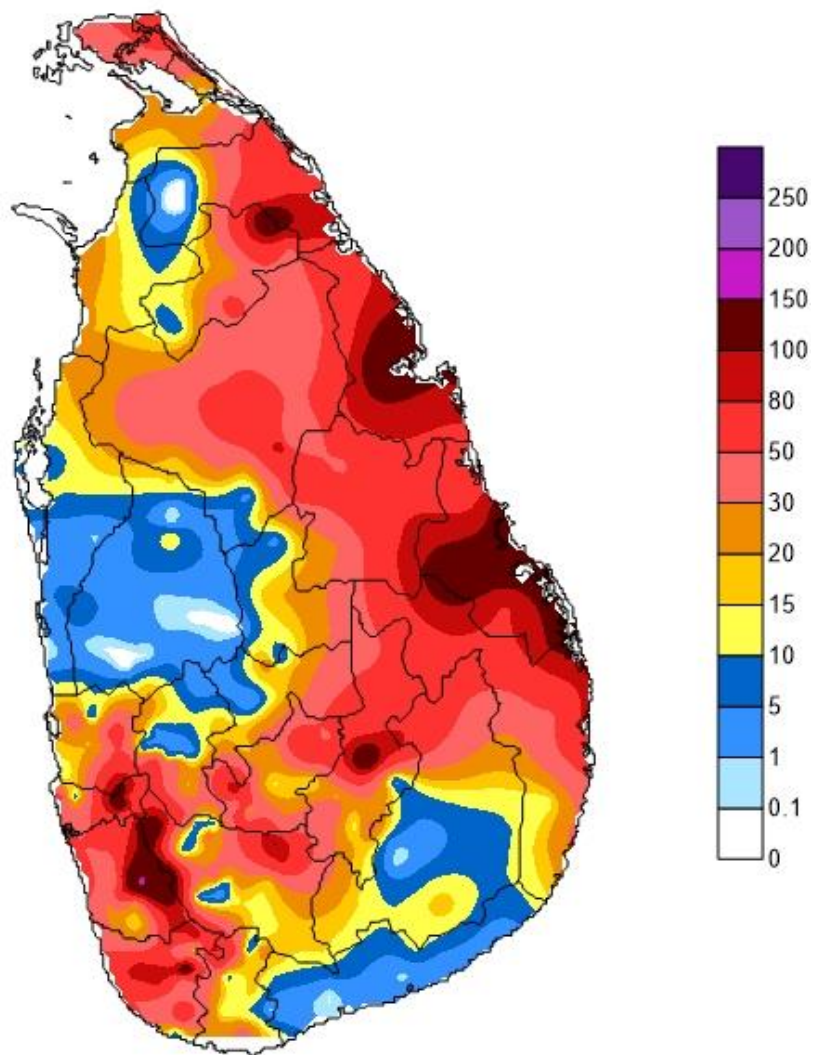
## **1. Rainfall**

The north-east monsoon conditions prevailed over the country and it was generally a wet week. The most significant portion of rainfall received over the eastern parts of the island due to a low-level convergence in north easterly wind flow over Eastern part the country particularly during 9-10<sup>th</sup>. Afternoon or evening thundershowers were reported over the south-western parts with fairly heavy to heavy showers in Kalutara and Colombo districts on 10<sup>th</sup> and 13<sup>th</sup>. Presence of enough low-level moisture with light wind enhanced the convective activity over the south western parts country.

According to the DMC records there were no significant disasters reported during this week.

The highest daily recorded rainfall of 125.5mm was recorded at Karandana-Ingiriya in Kalutara district on 10<sup>th</sup> and the highest weekly total amount of 173.0 mm was reported at Kanneliya Forest Office in Galle district during the week.

Hydro-catchment areas in the western slope of the central hills received fairly heavy to heavy rainfalls during the week with maximum total 100.7mm at Norton. Hydro-catchments in eastern slope of the central hills received relatively less amount of rainfalls.



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

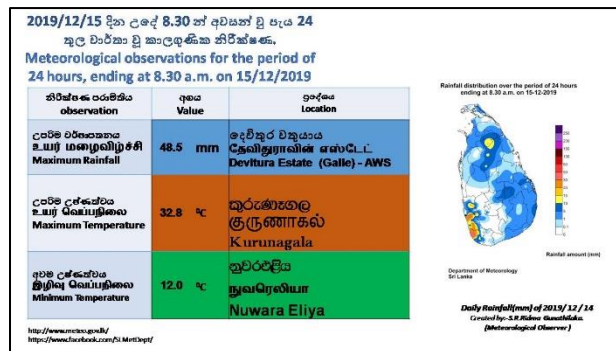
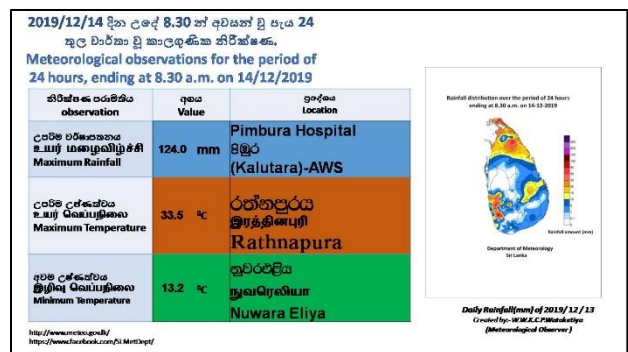
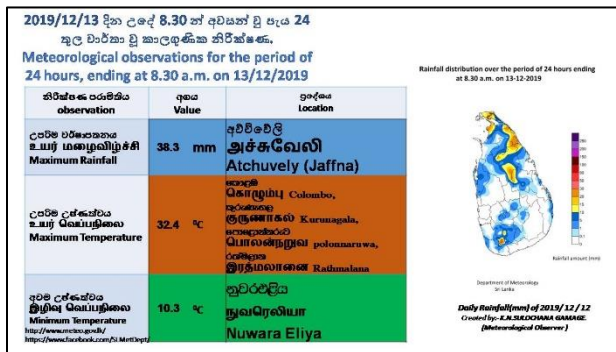
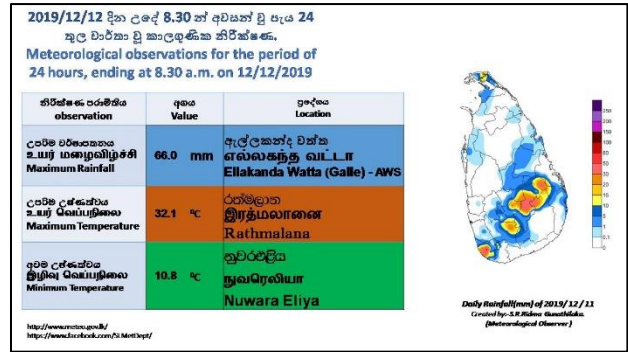
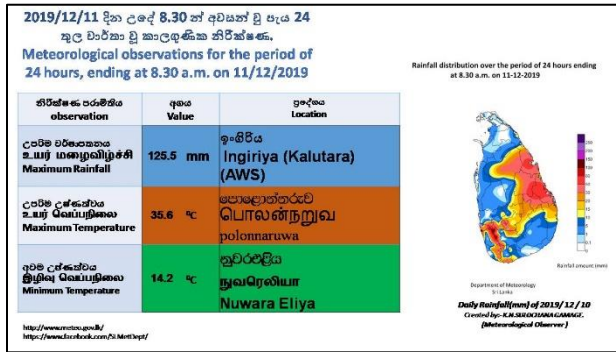
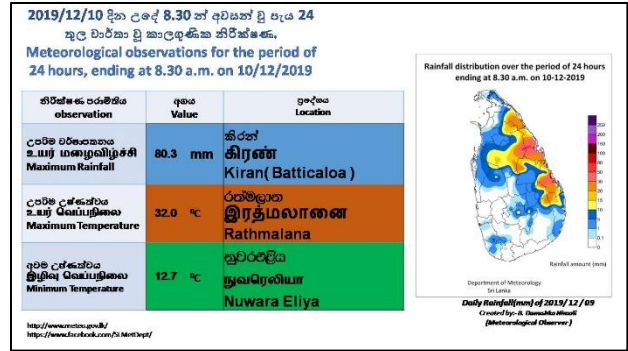
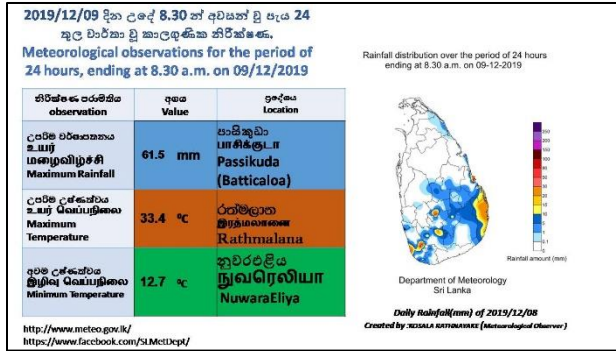


Figure 2. Daily Rainfall (mm) and maximum and minimum temperatures (<sup>0</sup>C) during the week.

Main Meteorological Stations	Rainfall (mm)
Anuradhapura	47.9
Badulla	50.8
Bandarawela	14.8
Batticaloa	124.7
Colombo	58.9
Galle	28.7
Hambanthota	4.8
Jaffna	35.7
Monaragala	18.8
Katugasthota	15.3
Katunayake	25.0
Kurunagala	3.1
MahaIlluppallama	31.0
Mannar	34.7
Polonnaruwa	59.9
Nuwara Eliya	17.8
Pottuvil	35.9
Puttalam	11.5
Rathmalana	67.6
Rathnapura	9.8
Trincomalee	127.1
Vavuniya	58.3
Mattala	4.7

Hydro-Catchment Areas	
Station	Rainfall (mm)
Castlereigh	67.9
Norton	100.7
Maussakele	70.9
Canyon	55.3
Lakshapana	64.7
Upper Kotmale	13.2
Kotmale	13.8
Victoriya	36.7
Randenigala	43.7
Rantambe	64.2
Bowatenna	20.0
Ukuwela	26.9
Samanala Wawa	67.0
Kukuleganaga	49.0
Maskeliya	40.5

Rain Gauge Stations	
Station	Rainfall (mm)
Nawakiriuru Tank	105.2
Detanagalla	106.7
Halwathura Estate	107.5
Batuwanagala	108.5
Salawa Estate	114.0
IPSOTSL (camp)	130.0
Palampoddar	136.5
Morapitiya Maha Vidyalaya	142.0
Karandana Dammulla Sampath Tea Factory	144.0
Nedunkerni	144.5
Passikuda Estate	148.5
Ledger estate	149.0
W.K.K. Engineering, Hanwella	152.5
Pimbura Hospital	161.5
Kanneliya Forest Office	173.0

Tables: Total weekly Rainfall (mm) at Main Meteorological stations, Hydro-catchment areas and some rain gauge stations during the week.

## 2. Temperature

Generally maximum temperatures were above normal over most parts of the country during the week except during 9-11<sup>th</sup> when they were below normal at some places associated with the prevailed showery condition. Highest positive departure from mean was 3.8<sup>0</sup>C and reported at Galle on 13<sup>th</sup> while the highest negative departure was 4.2<sup>0</sup>C recorded from Anuradhapura on 10<sup>th</sup>. Maximum temperatures were approximately 03<sup>0</sup>C above normal at Galle on 14<sup>th</sup>, at Kurunegala during 13- 14<sup>th</sup>, at Hambantota on 12<sup>th</sup>, at Katugastota on 13<sup>th</sup> and at Rathmalana on 08<sup>th</sup>. It was approximately 03<sup>0</sup>C below normal at Anuradhapura, Katugastota and Ratnapura on 09<sup>th</sup>, at Maha Iluppallama and Vavuniya on 10<sup>th</sup>.

The highest day time (maximum) temperature, 35.6<sup>0</sup>C was reported at Polonnaruwa on 10<sup>th</sup>.

Minimum temperatures (Night) were mostly above normal at most meteorological stations during the week except at a few places on 08<sup>th</sup> and 12<sup>th</sup> and at Nuwara-Eliya during 10-14<sup>th</sup>. It was approximately 03<sup>0</sup>C above normal at Batticaloa on 08<sup>th</sup>, 12<sup>th</sup> and at Nuwara eliya on 11<sup>th</sup>.

The lowest minimum temperature 10.3<sup>0</sup>C was reported at Nuwara-Eliya main meteorological station on 13<sup>th</sup>.

## 3. Wind

Winds at surface level were mostly clam or variable in direction and speeds were (00-10) knots during the week except during 08<sup>th</sup>. It was north-easterly or variable winds with (05-15) knots during 08<sup>th</sup>.

Winds at gradient level was north-easterly throughout the week. The wind speed was (15-25) knots on 8<sup>th</sup> and then it slackened down to (05-15) knots during next three days (09<sup>th</sup>-11<sup>th</sup>). It was again strengthened at the end of the week up to the speeds of (05-25) Knots.

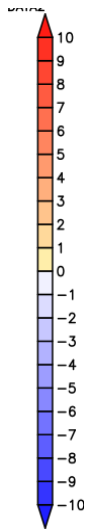
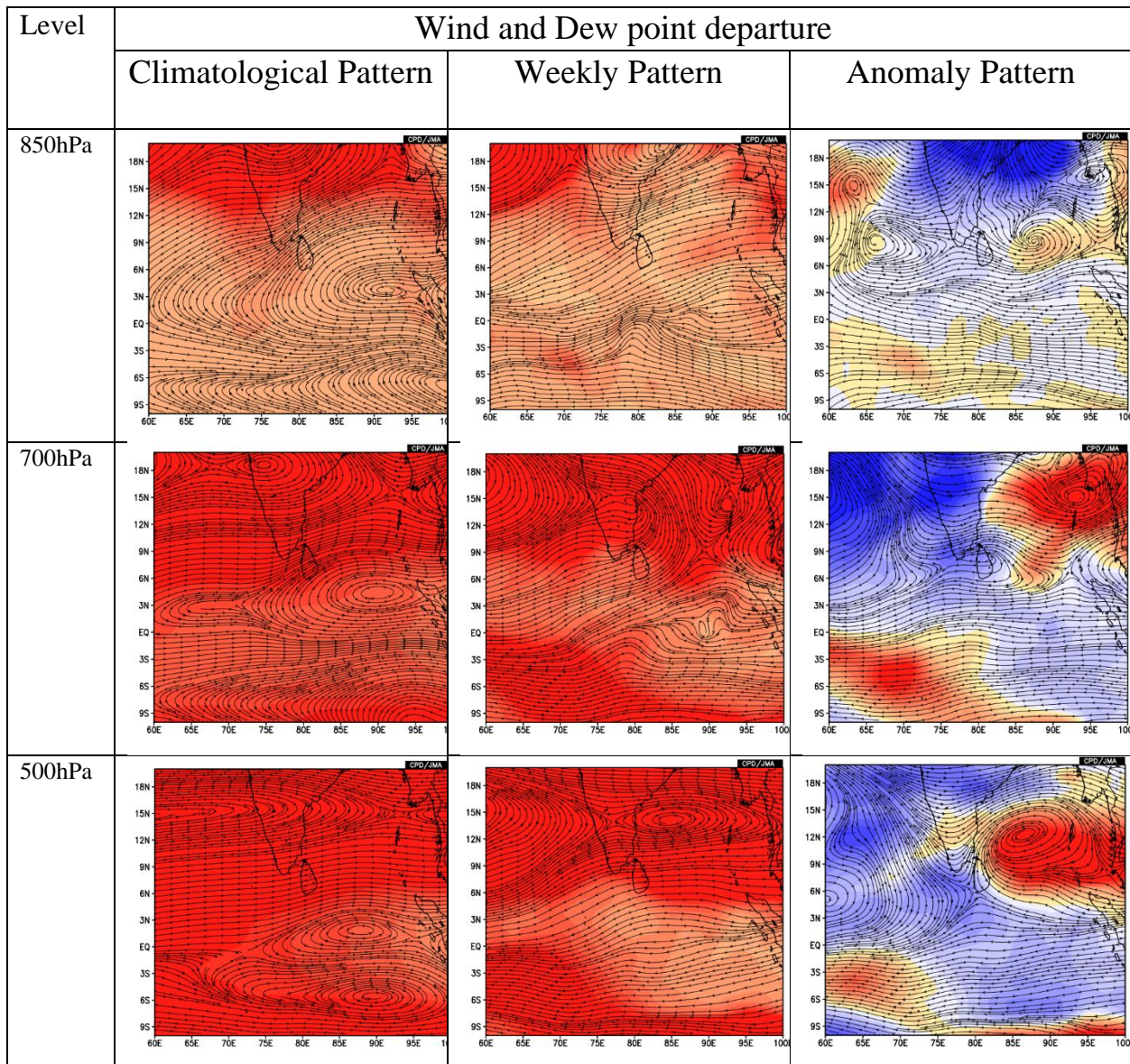
Wind direction at 850hPa level was north-easterly and speed was within (05-10) knots during first four days. Then the speeds increased gradually up to (10-20) knots during 12-13<sup>th</sup> and then up to (20-25) knots on 14<sup>th</sup>. The climatological wind direction is north-easterly and comes from Pacific Ocean through the Bay of Bengal

bringing enough moisture over the island during the week. The east-west oriented trough axis lies over the latitude-03N. There were north-easterly winds with similar moisture condition but less speed compared with climatology during this week.

Winds at 700hPa level varied between East- north-easterly and East- south-easterly during the week and speed was (05-15) knots. The winds across the island was coming across the Indian-sub continent with relatively less moisture during the week. The climatological winds come across the Bay of Bengal sea area from the Pacific Ocean region.

The winds at 500hPa level was generally easterly in direction with the speeds of 10 knots during 08- 09<sup>th</sup> and speed was (20-30) knots on 10<sup>th</sup>. Winds were south-easterly during 11-12<sup>th</sup> and changed into easterly direction during the last two days. Wind speeds were (05-15) knots. There was a clockwise wind anomaly with relatively higher moist condition than the climatology over the country during the week.





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