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வளிமண்டலவியல் திணைக்களம்  
Department of Meteorology

TP : 011 2686686  
Fax : 011 2691443  
E-mail : metnmc@gmail.com  
Web : www.meteo.gov.lk

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Seasonal, Monthly and weekly Rainfall Forecasts for November-January 2021

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This consensus climate outlook for the NDJ 2021/2022 season over Sri Lanka has been developed through an assessment of the prevailing global climate conditions influencing the Sri Lankan climate and seasonal forecasts from different climate models around the world. The tropical Pacific atmosphere is consistent with La Niña conditions and also the La Niña is expected to continue with an 87% chance on December 2021- February 2022. There is an enhanced probability for neutral IOD conditions to continue until April 2022.

### Seasonal Rainfall Forecast for November –January 2021/2022(NDJ 2021/2022)



Fig 1.Consensus Probabilistic Monthly rainfall forecast for NDJ 2021/2022

Slightly above normal rainfalls are likely over Northern and Northcentral provinces and in Trincomalee district and no signal for other areas, where there are equal probabilities of having below, near or above normal rainfalls during November-December 2021-January 2022 season. (Fig. 1)

## Monthly Rainfall Forecasts for November, December 2021 and January 2022

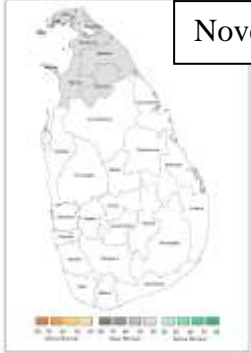


Month	Rainfall forecast
 <p style="text-align: center;">November 2021</p>	<p>There is a possibility for near normal rainfalls in Northern province and no clear signal for other areas, where there are equal probabilities for below, near and above normal rainfall during the month of November 2021.</p> <p>Further, there is a possibility to develop low pressure systems and depressions over and vicinity of Sri Lanka, which could have enhanced the rainfall over the country during the month of November.</p>
 <p style="text-align: center;">December 2021</p>	<p>There is a possibility for near or slightly above normal rainfalls over Northern, Eastern, Northcentral and Uva provinces and no clear signal for other areas, where there are equal chance for receiving below, near or above normal rainfalls, during the month of December 2021.</p> <p>Further, there is a possibility to develop low pressure systems and depressions over and vicinity of Sri Lanka, which could have enhanced the rainfall over the country during the month of November.</p>
 <p style="text-align: center;">January 2022</p>	<p>Above normal rainfalls are likely over most parts of the country during the month of January 2022.</p> <p>Furthermore in the month of January, there is a possibility to develop wave type disturbances in the Bay of Bengal, which could have enhanced the rainfall over the country.</p>

Fig 2.Monthly rainfall forecasts for November, December 2021 and January 2022

District wise normal (mean) rainfall values are indicated in annex -1)

However, the predictability is also limited due to strong day-to-day atmospheric variability caused by the passage of the synoptic scale systems such as lows and depressions as well as intraseasonal Oscillations such as Madden Julian Oscillations (MJO).

## Weekly Rainfall forecasts for the month of November 2021

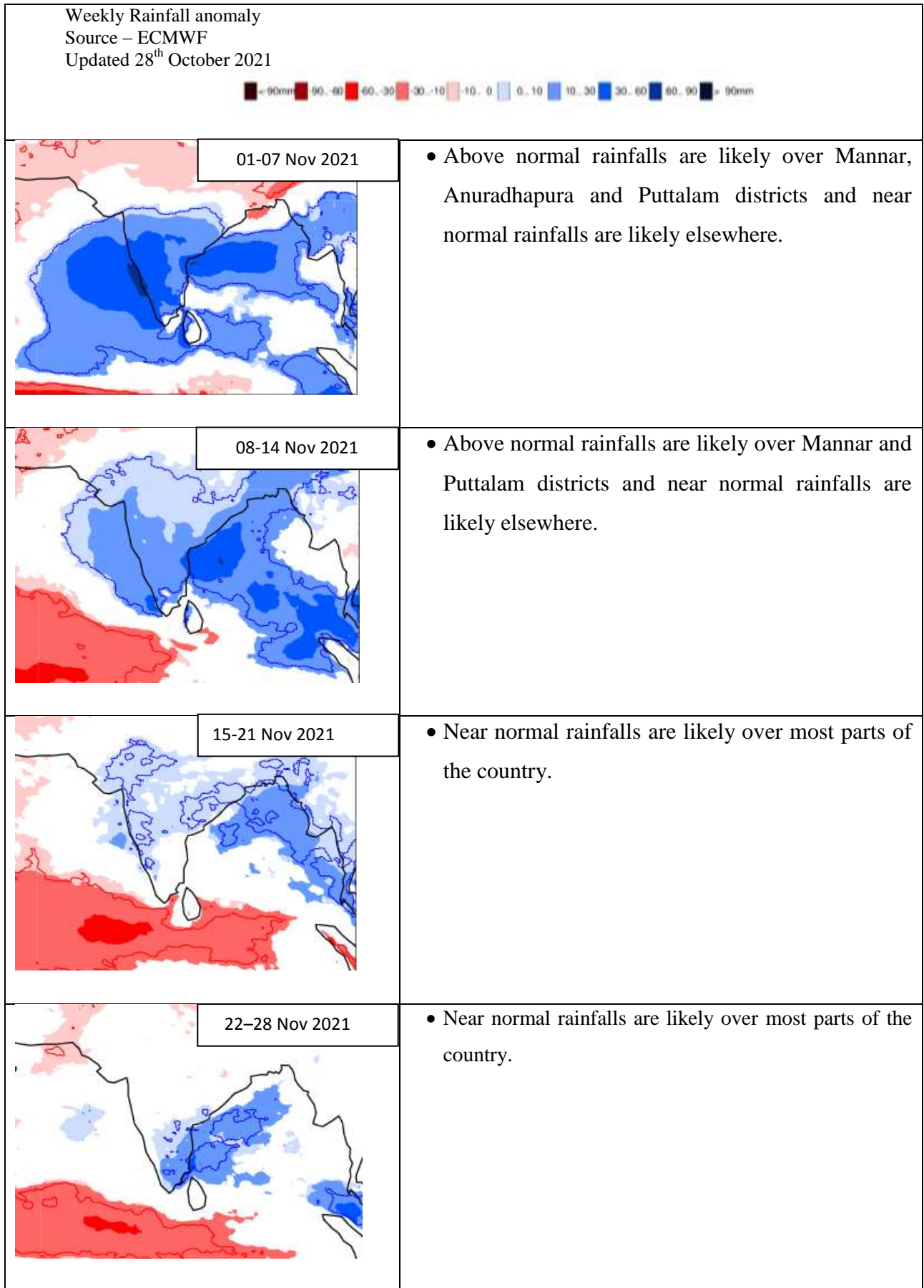


Fig 3. Weekly rainfall forecast for November 2021

## **Attention is requested for following areas**

- General public are kindly requested to pay more attention for the instructions and advisories issued by authorized agencies particularly on agriculture, water sectors and weather related activities.
- Possibility for Lightning and temporally strong gusty winds associated with afternoon thunder showers
- Possibility of Low pressure, depression and cyclones in Bay of Bengal

## Annex-1

### District wise mean (30 years (1961-1990) of average) rainfalls during the months of November, December and January season.

<b>District</b>	<b>Average rainfall- November (mm)</b>	<b>Average rainfall- December (mm)</b>	<b>Average rainfall- January(mm)</b>
Colombo	340.8	191.7	77.2
Kalutara	403.1	258.0	122.7
Galle	378.9	239.6	127.0
Matara	352.7	219.9	125.2
Hambantota	222.5	159.2	70.9
Ampara	271.9	350.5	210.1
Batticaloa	303.2	388.0	194.3
Trincomalee	303.1	335.6	127.4
Mullaithivu	312.5	291.0	77.2
Jaffna	324.8	257.4	70.7
Killinochchi	329.6	274.0	76.7
Mannar	242.8	206.4	53.8
Puttalam	233.2	126.2	46.9
Gampaha	313.1	141.1	53.7
Kegalle	394.1	188.5	77.4
Ratnapura	370.2	231.5	117.0
Monaragala	289.6	253.5	129.7
Badulla	327.3	356.1	232.3
Pollonnaruwa	292.9	369.5	164.1
Vavuniya	272.3	256.7	74.2
Anuradapura	240.4	232.8	84.6
Kurunegala	270.1	150.2	63.5
Matale	309.0	357.7	202.0
Kandy	342.5	308.8	159.8
Nuwaraeliya	305.9	250.1	138.3

Table 01: 30 year Average (1961-1990) district wise rainfalls during the month of November, December and January

Table 01 shows the mean (30 year Average (1961-1990)) rainfalls during the month of November, December and January in each district.