



No SF-2024-11-R

## Seasonal, Monthly and weekly Rainfall Forecasts for November 2024-January 2025

Issued on 6<sup>th</sup> November 2024 by Seasonal Forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus Climate Outlook for November 2024 to January 2025 season over Sri Lanka has been developed through an expert assessment of the prevailing global climate conditions influencing the South Asian climate and seasonal forecasts from different climate models around the world. ENSO-neutral conditions are present. Equatorial sea surface temperatures (SSTs) are near-to-below-average in the central and eastern Pacific Ocean. La Niña is favoured to emerge in September-November (60% chance) and is expected to persist through January-March 2025. The Indian Ocean Dipole (IOD) is neutral. The IOD index for the week ending 27 October was  $-0.94$  °C, making it the 5th consecutive week close to or below the negative IOD threshold ( $-0.4$  °C). Careful consideration is also given to other regional and global factors as well as the intraseasonal variability of the region that can affect the rainfall and temperature patterns over the country.

### Seasonal Rainfall Forecast for November–January 2024/25 (NDJ)

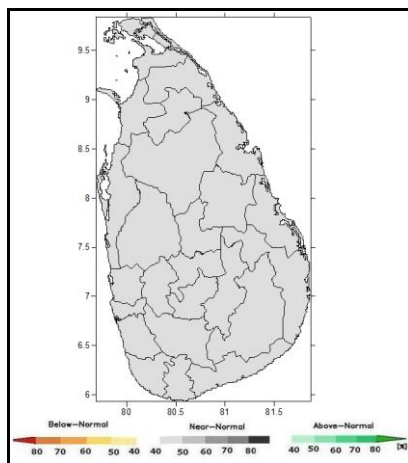


Fig 1.Consensus Probabilistic Monthly rainfall forecast for NDJ 2024/25

**There is a possibility for near normal rainfall over most parts of the country during NDJ 2024/25 as a whole (Fig.01).**

Development of the synoptic scale systems such as lows, depressions and cyclones are also possible during the month of November and December. If so rainfall can increase.

## Monthly Rainfall Forecasts for November, December 2024 and January 2025

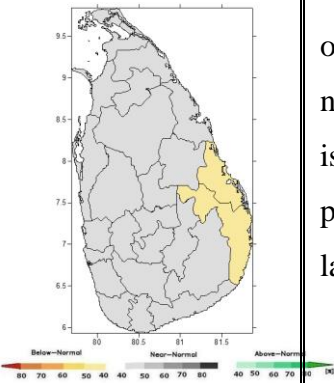
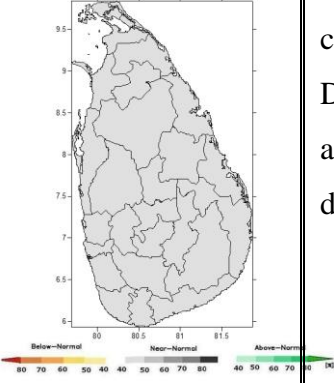
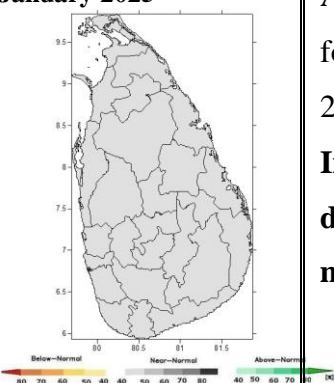
Month	Rainfall forecast
<b>November 2024</b> 	<p>There is a higher chance of having near normal rainfalls over most parts of the country except Ampara and Batticaloa districts where below normal rainfalls are likely during the month of November 2024. There is a possibility for developing atmospheric disturbances, such as low pressure areas and depressions during the month, particularly during latter part of the month. If so rainfall will increase.</p>
<b>December 2024</b> 	<p>There is a possibility for near normal rainfall over most parts of the country during the month of December 2024.</p> <p>Development of the synoptic scale systems such as lows, depressions and cyclones are also possible during the month. If so forecast can be deviated.</p>
<b>January 2025</b> 	<p>According to the available global model forecasts, there is a possibility for near normal rainfall over most parts during the month of January 2025.</p> <p><b>In addition to that development of the cyclones and wave type disturbances are also possible during the month. If so the forecast may change.</b></p>

Fig 2: Monthly rainfall forecasts for November, December 2024 and January 2025

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

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 2024


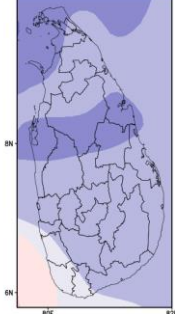
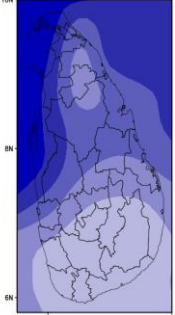
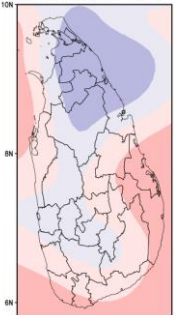
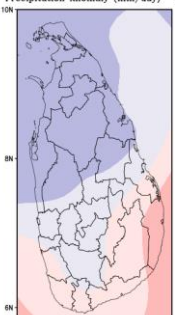
Weekly Rainfall anomaly Source – NCMRWF Updated on 31 <sup>st</sup> October 2024			
<p>NCMRWF ERP Forecast Precipitation Anomaly (mm/day)</p> 		01-07 Nov 2024	<ul style="list-style-type: none"> <li>Near normal rainfalls are possible over Kalutara, Galle and Mathara districts. Above normal rainfalls are expected over remaining parts of the country</li> </ul>
<p>NCMRWF ERP Forecast Precipitation Anomaly (mm/day)</p> 		08-14 Nov 2024	<ul style="list-style-type: none"> <li>Above normal rainfalls are expected over most parts of the country.</li> </ul>
<p>NCMRWF ERP Forecast Precipitation Anomaly (mm/day)</p> 		15-21 Nov 2024	<ul style="list-style-type: none"> <li>Above normal rainfalls are likely over some areas in Northern province and Anuradhapura and Trincomalee districts. Below normal rainfalls are likely over Batticaloa, Ampara, Galle and Mathara districts and near normal rainfalls are possible over remaining parts of the country</li> </ul>
<p>NCMRWF ERP Forecast Precipitation Anomaly (mm/day)</p> 		22-28 Nov 2024	<ul style="list-style-type: none"> <li>Above normal rainfalls are expected over Northern, Northwestern and Northcentral provinces and Trincomalee district. Below normal rainfalls are possible over Ampara district and near normal rainfalls are likely over remaining parts of the country.</li> </ul>

Fig 3.Weekly rainfall forecast for November 2024

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

- More attention for the instructions and advisories issued by authorized agencies particularly related to extreme weather.
- Lightning and temporally strong gusty winds accompanied by thundershowers are also possible during the season, particularly November and December.
- There is a possibility for developing low pressure systems, depressions and Cyclones during the season.

## Annex-1

### District wise mean (30 years (1981-2010) of average) rainfalls during the months of November, December and January

District	Average rainfall- November(mm)	Average rainfall- December (mm)	Average rainfall- January(mm)
Colombo	368.1	171.3	103.7
Kalutara	384.5	232.9	143.5
Galle	341.6	221.6	134.5
Matara	329.5	192.7	114.3
Hambantota	230.8	144.0	81.7
Ampara	289.6	318.7	233.8
Batticaloa	326.8	371.1	209.4
Trincomalee	334.1	310.1	133.7
Mullaithivu	333.9	250.9	92.2
Jaffna	348.4	232.7	73.1
Killinochchi	340.3	240.3	82.5
Mannar	266.5	188.3	62.0
Puttalam	234.6	107.0	52.4
Gampaha	319.3	120.0	68.7
Kegalle	381.2	154.2	96.4
Ratnapura	365.5	218.7	129.4
Monaragala	293.3	221.2	149.9
Badulla	335.4	324.3	242.8
Pollonnaruwa	290.1	328.8	171.7
Vavuniya	273.6	225.2	87.3
Anuradapura	249.2	208.1	94.0
Kurunegala	270.1	122.0	67.2
Matale	336.5	340.3	233.7
Kandy	318.1	258.0	185.9
Nuwaraeliya	303.2	220.9	158.2

Table 01: 30 year Average (1981-2010) district wise rainfalls during the month of November, December and January

Table 01 shows the mean (30-year Average (1981-2010)) rainfalls during the month of November, December and January in each district.