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## Seasonal, Monthly and weekly Rainfall Forecasts for May-July 2024

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

This consensus Climate Outlook for May to July 2024 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. A transition from El Niño to ENSO-neutral is likely by April-June 2024 (85% chance), with the odds of La Niña developing by June-August 2024 (60% chance). IOD is currently in neutral and atmospheric indicators in the east Indian ocean may be consistent with developing positive IOD. 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 May–July 2024(MJJ)

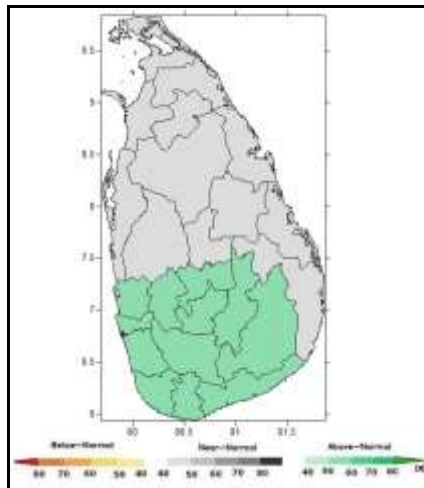


Fig 1.Consensus Probabilistic Monthly rainfall forecast for MJJ 2024

**Above normal rainfalls are likely over Western, Southern Sabaragamuwa, Central and Uva provinces and near normal over remaining areas during May- July 2024 season (Fig.01).**

## Monthly Rainfall Forecasts for May, June and July 2024

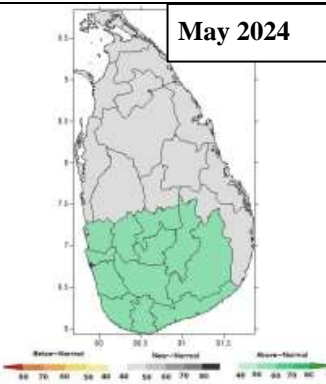
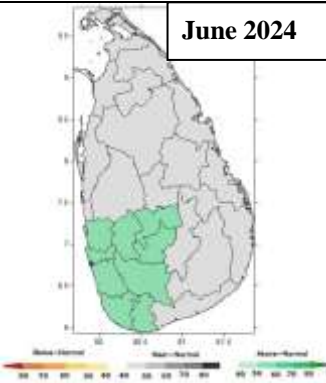
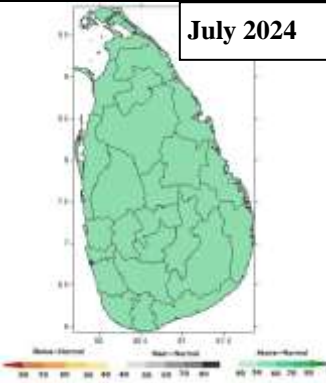
Month	Rainfall forecast
 <p style="text-align: center;"><b>May 2024</b></p>	<p>There is a higher chance of having above normal rainfall over Western, Southern, Sabaragamuwa, Central and Uva provinces and near normal rainfalls over remaining areas of the country during the month of May 2024.</p> <p>In addition to that, generally there is a possibility for developing atmospheric disturbances, low pressure systems and cyclones in the vicinity of Sri Lanka during the latter part of month of May.</p>
 <p style="text-align: center;"><b>June 2024</b></p>	<p>There is a higher chance of having above normal rainfalls over Southwestern parts and near normal rainfalls over elsewhere of the country during the month of June 2024</p>
 <p style="text-align: center;"><b>July 2024</b></p>	<p>There is a chance of having above normal rainfalls over most parts of the country during the month of July 2024.</p>

Fig 2.Monthly rainfall forecasts for May, June and July 2024

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 May 2024

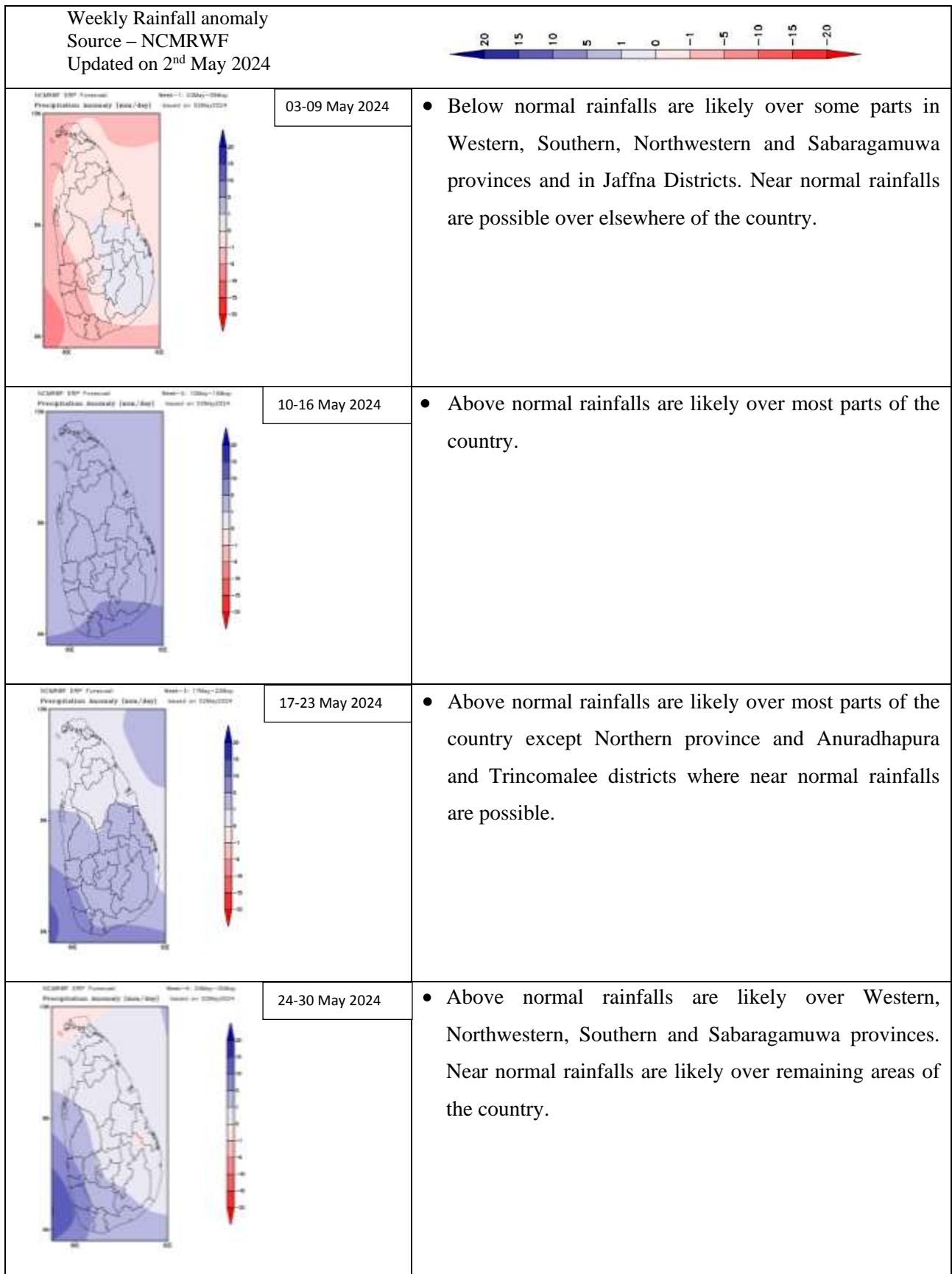


Fig 3. Weekly rainfall forecast for May 2024

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

- More attention are needed for lightning strikes during first half of Month of May 204.
- More attention for the instructions and advisories issued by authorized agencies particularly related to extreme weather.
- Generally there is a possibility for developing atmospheric disturbances, low pressure areas or depressions over and vicinity of Sri Lanka during the latter half of the month of May and early June
- Floods and Landslides are also possible during the month of May and June.

## Annex-1

### District wise mean (30 years (1981-2010) of average) rainfalls during the months of

#### May, June and July

<b>District</b>	<b>Average rainfall- May (mm)</b>	<b>Average rainfall- June (mm)</b>	<b>Average rainfall- July(mm)</b>
Colombo	348.9	237.6	169.7
Kalutara	477.9	341.0	245.2
Galle	408.0	296.6	223.0
Matara	274.0	234.0	159.1
Hambantota	73.6	45.2	37.0
Ampara	50.2	24.2	40.5
Batticaloa	43.9	23.1	41.3
Trincomalee	54.0	17.8	54.3
Mullaithivu	53.4	19.7	31.4
Jaffna	42.2	17.0	26.9
Killinochchi	43.2	15.4	22.1
Mannar	51.2	14.5	14.5
Puttalam	106.2	44.8	30.5
Gampaha	284.9	194.4	130.0
Kegalle	363.3	353.3	275.1
Ratnapura	321.1	279.8	202.2
Monaragala	83.3	27.0	44.0
Badulla	107.0	37.7	59.7
Pollonnaruwa	59.7	11.8	39.0
Vavuniya	59.2	22.8	38.0
Anuradapura	67.0	16.8	35.7
Kurunegala	121.4	76.6	56.4
Matale	91.4	45.7	51.7
Kandy	147.8	159.0	145.0
Nuwaraeliya	246.2	287.0	258.6

Table 01: 30 year Average (1981-2010) district wise rainfalls during the month of May, June and July

Table 01 shows the mean (30 year Average (1981-2010)) rainfalls during the month of May, June and July in each district.