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Seasonal, Monthly and weekly Rainfall Forecasts for October-December 2022

Issued on 4<sup>th</sup> October 2022 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus climate outlook for October to December 2022 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. The tropical Pacific atmosphere is consistent with La Niña conditions. Chances of La Niña gradually decrease through the Northern Hemisphere fall and winter, with ENSO-neutral favored beginning in February-April 2023. The Indian Ocean Dipole (IOD) is proceeding negative limits. Most of the models show strongest negative IOD in the month of September and gradually decreasing and reach IOD neutral in December. These parameters are known to influence the climate variability over Sri Lanka. 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 October–December 2022(OND)



Fig 1.Consensus Probabilistic Monthly rainfall forecast for OND 2022

**Below normal rainfalls are likely over most parts of the country except SW part and in Killinochchi and Jaffna districts where near normal rainfalls are likely during OND 2022 (Fig.13).**

Generally low-level atmospheric disturbances are possible over and vicinity of Sri Lanka during October to December season. If so, rainfall can be enhanced.

### **Monthly Rainfall Forecasts for October, November and December 2022**




<b>Month</b>	<b>Rainfall forecast</b>
 <p>October 2022</p>	<p>There is a higher probability for below normal rainfalls over most parts of the country during the month of October 2022. However, low level atmospheric disturbances are possible over and vicinity of Sri Lanka during the month of October in general. If so, rainfall can be enhanced</p>
 <p>November 2022</p>	<p>There is a possibility for near normal rainfalls over South western parts and in Jaffna and Killinochchi districts and below normal rainfalls elsewhere during the month of November 2022.</p> <p>However, generally low level atmospheric disturbances are possible over and vicinity of Sri Lanka during the month of November. If so, rainfall can be enhanced.</p>
 <p>December 2022</p>	<p>Near normal rainfalls are likely over South western parts and in Jaffna and Killinochchi districts and below normal rainfalls elsewhere during the month of December 2022.</p> <p>However, low level atmospheric disturbances are possible over and vicinity of Sri Lanka during the month December. If so, rainfall can be enhanced.</p>

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

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 October 2022

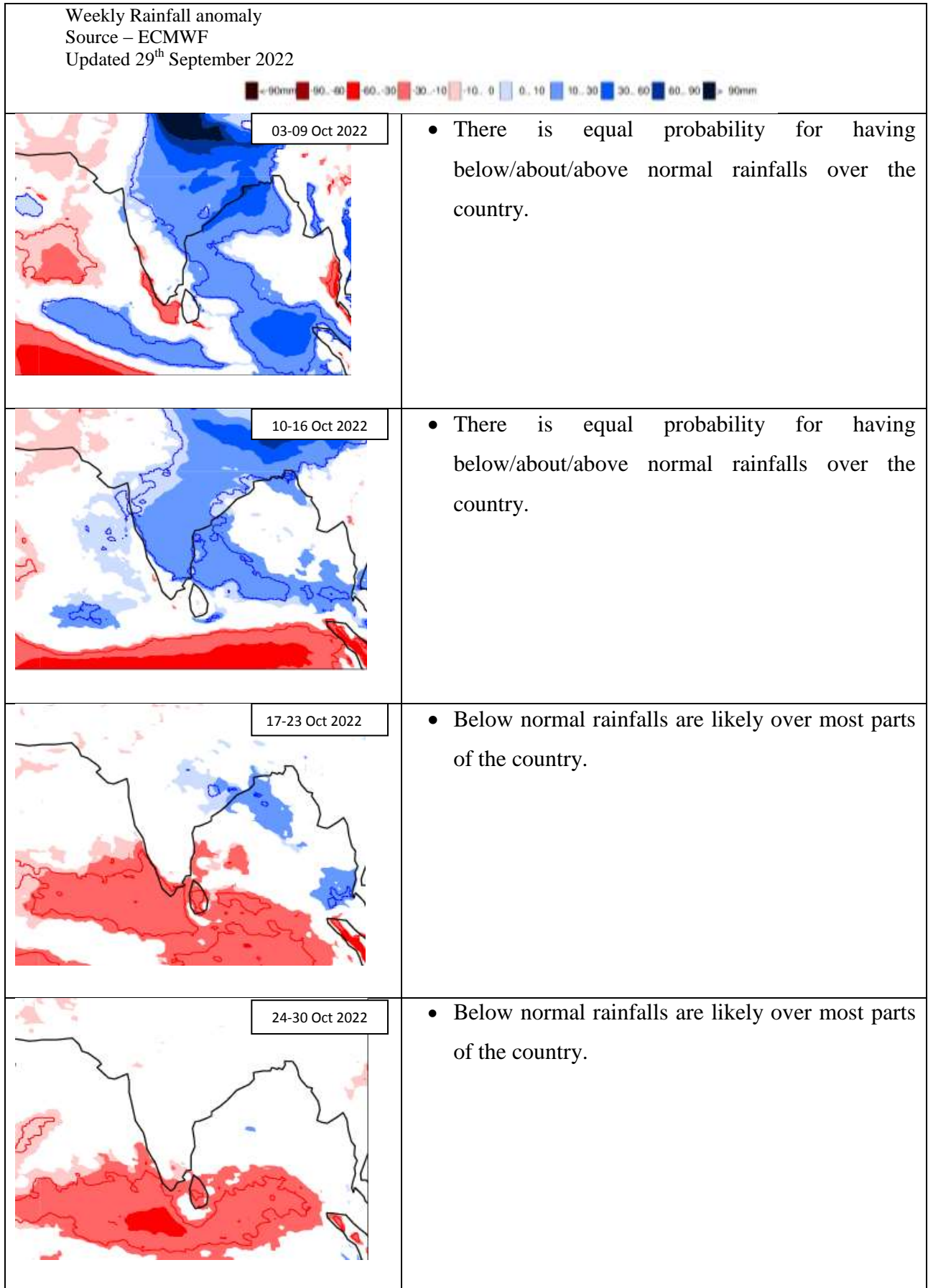


Fig 3. Weekly rainfall forecast for October 2022

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

- More attention for the instructions and advisories issued by authorized agencies particularly on agriculture, water sectors and related to extreme weather.
- There is a possibility for strong gusty winds, heavy rainfall and lightning during the season.
- Low level atmospheric disturbances are possible over and vicinity of Sri Lanka during the season.

## Annex-1

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

<b>District</b>	<b>Average rainfall- October (mm)</b>	<b>Average rainfall- November (mm)</b>	<b>Average rainfall- December(mm)</b>
Colombo	391.7	340.8	191.7
Kalutara	463.7	403.1	258.0
Galle	420.3	378.9	239.6
Matara	328.2	352.7	219.9
Hambantota	174.3	222.5	159.2
Ampara	172.3	271.9	350.5
Batticaloa	182.2	303.2	388.0
Trincomalee	208.1	303.1	335.6
Mullaithivu	200.8	312.5	291.0
Jaffna	227.4	324.8	257.4
Killinochchi	211.0	329.6	274.0
Mannar	185.3	242.8	206.4
Puttalam	231.2	233.2	126.2
Gampaha	362.5	313.1	141.1
Kegalle	460.9	394.1	188.5
Ratnapura	371.5	370.2	231.5
Monaragala	237.4	289.6	253.5
Badulla	270.9	327.3	356.1
Pollonnaruwa	217.7	292.9	369.5
Vavuniya	228.2	272.3	256.7
Anuradapura	226.1	240.4	232.8
Kurunegala	288.6	270.1	150.2
Matale	260.4	309.0	357.7
Kandy	309.7	342.5	308.8
Nuwaraeliya	315.6	305.9	250.1

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

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