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

Issued on 1st August 2022 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus climate outlook for August to October 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. Currently La Niña conditions are prevailing in the tropical Pacific Ocean and it is expected to continue through the Northern Hemisphere summer and into early winter 2022-23. Indian Ocean Dipole (IOD) is persists within neutral bounds and most of the climate models show strongest negative IOD by the month of September 2022. 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 August–October 2022(ASO)



Fig 1.Consensus Probabilistic Monthly rainfall forecast for ASO 2022

Below normal rainfalls are expected in Western, Sabaragamuwa, Northwestern, Uva, Southern and Central provinces and near normal rainfalls in Northern province and in Trincomalee district. There is no clear signal for remaining areas of the country for the season of ASO 2022. (Fig. 1).

Monthly Rainfall Forecasts for August, September and October 2022




Month	Rainfall forecast
 <p style="text-align: right; border: 1px solid black; padding: 2px;">August 2022</p>	<p>Below normal rainfalls are likely over Western, Southern, Central, Sabaragamuwa, Northwestern and Uva provinces and near or slightly above normal rainfalls in northern province and in Trincomalee district. There is no clear signal for other areas where there is equal probability of having above or near or below normal rainfalls during the month of August 2022.</p>
 <p style="text-align: right; border: 1px solid black; padding: 2px;">September 2022</p>	<p>There is a probability for near normal rainfall over Northern province and below normal over southern and Uva provinces. There is no signal for remaining areas where there is equal probability of having above or near or below normal rainfalls for the month of September 2022. However, there is a possibility for developing atmospheric disturbances particularly during the latter part of the month of September. If so rainfall can be experienced.</p>
 <p style="text-align: right; border: 1px solid black; padding: 2px;">October 2022</p>	<p>There is a possibility for below normal rainfalls over most parts of the country during the month of October 2022.</p> <p>But there is a possibility for development of atmospheric disturbances, low pressure areas or depressions over and vicinity of Sri Lanka generally during the month of October. If so rainfall can be experienced.</p>

Fig 2. Monthly rainfall forecasts for August, September and October 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 August 2022

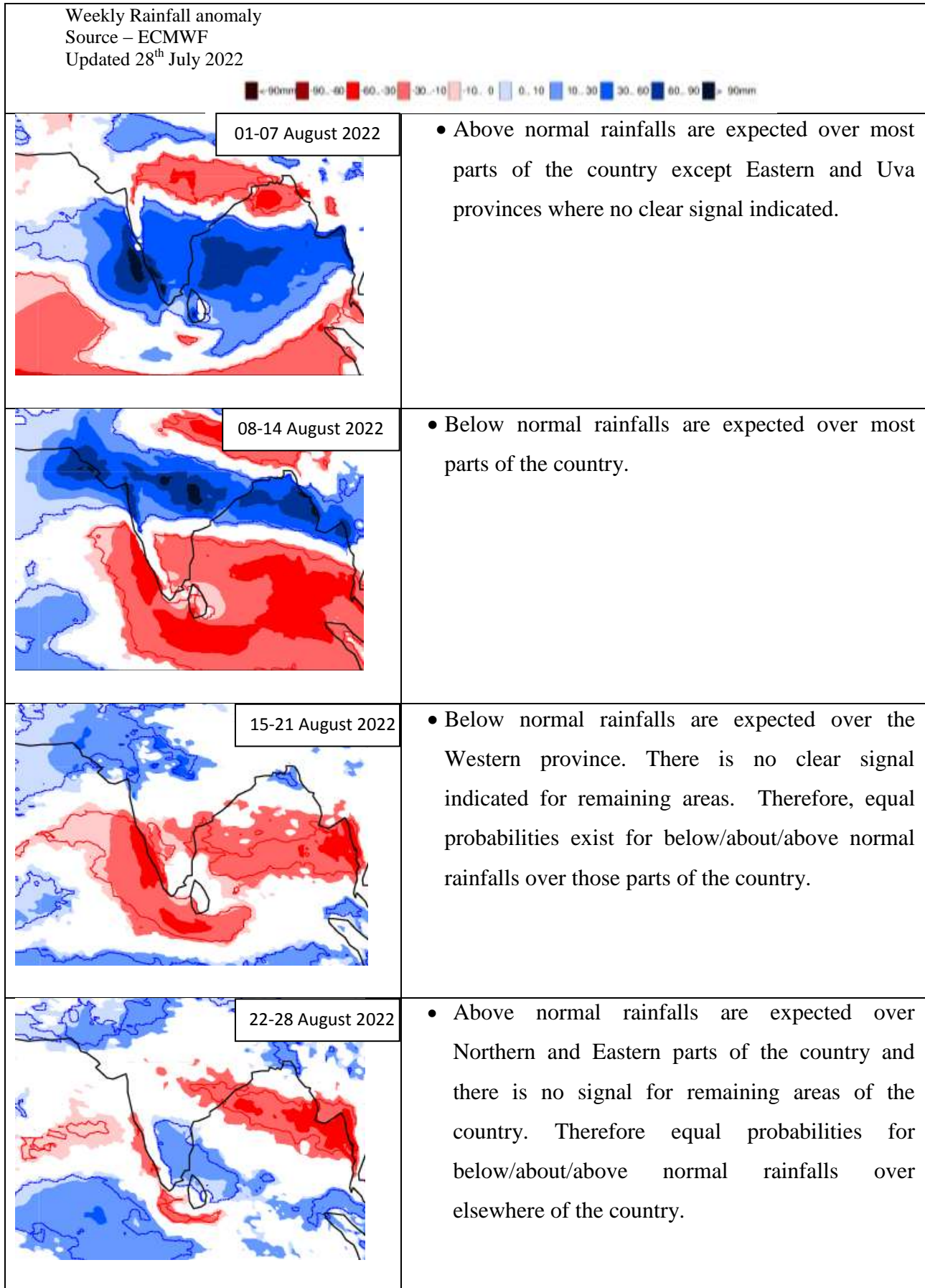


Fig 3. Weekly rainfall forecast for August 2022

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.
- Generally there is a possibility for spells of strong gusty winds and heavy rainfall during the season particularly in the SW part of the country.

Annex-1

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

District	Average rainfall- August (mm)	Average rainfall- September (mm)	Average rainfall- October(mm)
Colombo	162.5	289.7	391.7
Kalutara	247.8	388.1	463.7
Galle	239.8	341.2	420.3
Matara	191.6	258.6	328.2
Hambantota	49.2	72.4	174.3
Ampara	57.3	77.2	172.3
Batticaloa	60.5	86.6	182.2
Trincomalee	80.7	109.9	208.1
Mullaithivu	48.0	83.4	200.8
Jaffna	33.3	63.0	227.4
Killinochchi	25.9	60.9	211.0
Mannar	19.2	46.1	185.3
Puttalam	23.1	67.5	231.2
Gampaha	129.1	232.3	362.5
Kegalle	262.9	360.6	460.9
Ratnapura	196.4	284.1	371.5
Monaragala	49.9	83.8	237.4
Badulla	76.3	118.2	270.9
Pollonnaruwa	54.0	100.3	217.7
Vavuniya	56.5	97.5	228.2
Anuradapura	40.5	83.0	226.1
Kurunegala	58.1	116.6	288.6
Matale	59.2	94.3	260.4
Kandy	154.0	189.6	309.7
Nuwaraeliya	234.5	250.8	315.6

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

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