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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 September-November 2021

Issued on 30th August 2021 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus climate outlook for the SON 2021 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 El Niño–Southern Oscillation (ENSO) remains neutral and this ENSO-neutral is favored through the remainder of Northern Hemisphere summer (~60% chance in the July–September season), while La Niña is more likely starting in the August–October season and continuing through winter 2021–22 (~70% chance during November–January). The IOD index has been below the negative IOD threshold (-0.4 °C) since mid-May. IOD index will remain within negative thresholds until December 2021

Seasonal Rainfall Forecast for September –November 2021(SON 2021)



Fig 1. Consensus Probabilistic Monthly rainfall forecast for SON 2021

Below normal rainfalls are likely over most parts of the island with a slight possibility for near normal in Northern province during SON 2021 season (Fig. 1)

Monthly Rainfall Forecasts for September, October and November 2021




Month	Rainfall forecast
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">September 2021</div>	<p>There is a possibility for near normal rainfalls over most parts of the country during the month of September 2021.</p>
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">October 2021</div>	<p>There is a higher possibility for below normal rainfalls over most parts of the country during the month of October 2021. However there is a possibility to develop low pressure systems over and vicinity of Sri Lanka, which enhance the rainfall over the country during the month of October.</p>
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">November 2021</div>	<p>Below normal rainfalls are likely during the month of November 2021. However there is a possibility to develop low pressure systems over and vicinity of Sri Lanka, which enhance the rainfall over the country during the month of November.</p>

Fig 2.Monthly rainfall forecasts for September, October and November 2021

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 September 2021

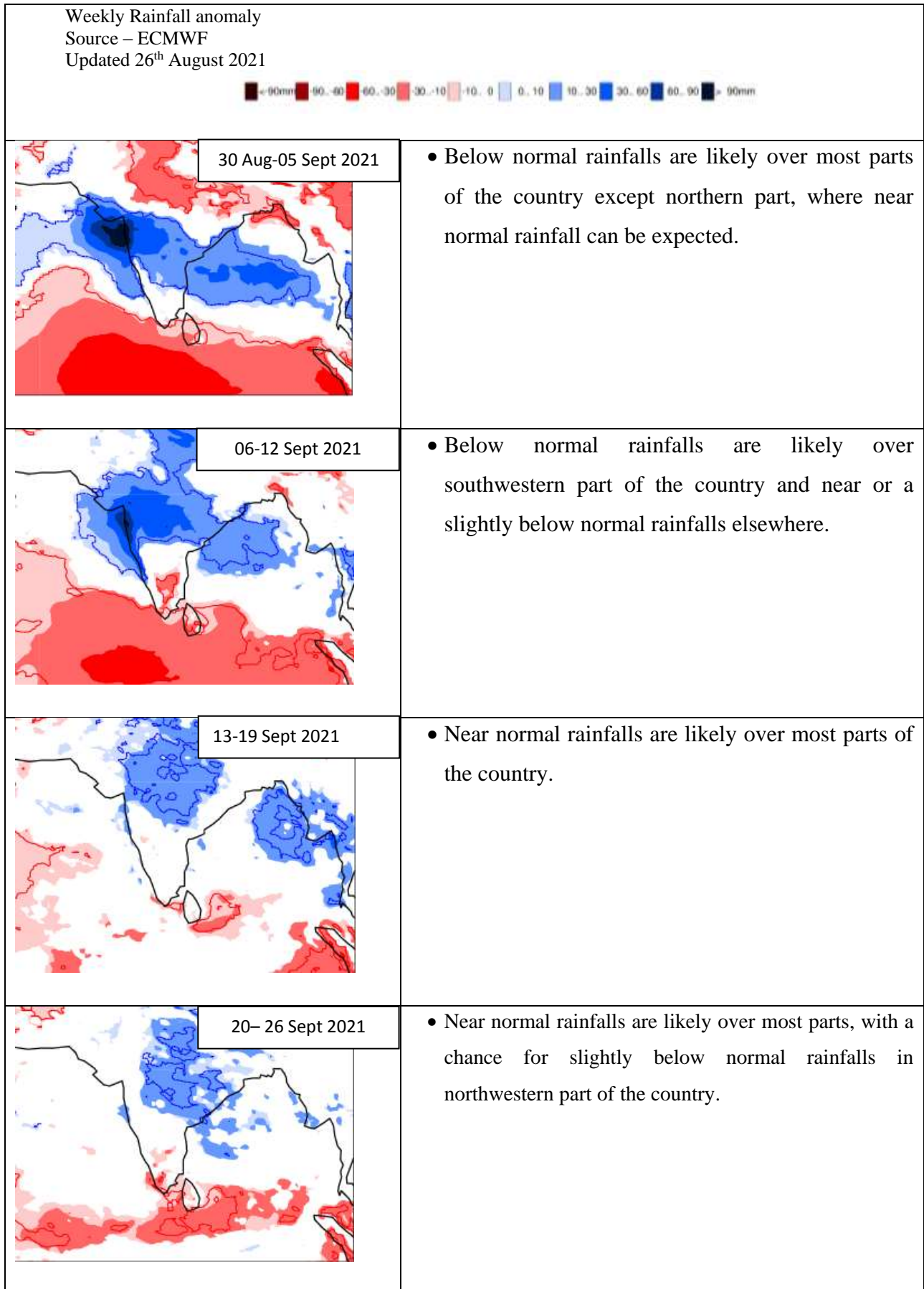


Fig 3. Weekly rainfall forecast for September 2021

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.

Annex-1

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

District	Average rainfall- September (mm)	Average rainfall- October (mm)	Average rainfall- November (mm)
Colombo	289.7	391.7	340.8
Kalutara	388.1	463.7	403.1
Galle	341.2	420.3	378.9
Matara	258.6	328.2	352.7
Hambantota	72.4	174.3	222.5
Ampara	77.2	172.3	271.9
Batticaloa	86.6	182.2	303.2
Trincomalee	109.9	208.1	303.1
Mullaithivu	83.4	200.8	312.5
Jaffna	63.0	227.4	324.8
Killinochchi	60.9	211.0	329.6
Mannar	46.1	185.3	242.8
Puttalam	67.5	231.2	233.2
Gampaha	232.3	362.5	313.1
Kegalle	360.6	460.9	394.1
Ratnapura	284.1	371.5	370.2
Monaragala	83.8	237.4	289.6
Badulla	118.2	270.9	327.3
Pollonnaruwa	100.3	217.7	292.9
Vavuniya	97.5	228.2	272.3
Anuradapura	83.0	226.1	240.4
Kurunegala	116.6	288.6	270.1
Matale	94.3	260.4	309.0
Kandy	189.6	309.7	342.5
Nuwaraeliya	250.8	315.6	305.9

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

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