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## Seasonal, Monthly and weekly Rainfall Forecasts for April-June 2021

Issued on 3<sup>rd</sup> April 2021 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

**This consensus climate outlook for the AMJ 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. Prevailing La Niña condition is nearing its end and there is a ~60% chance of a transition from La Niña to ENSO-neutral during the spring 2021. Neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean and it likely to continue during next three months. These parameters, are known to influence the climate variability over the country.**

### Seasonal Rainfall Forecast for April –June 2021(AMJ 2021)



Fig 1.Consensus Probabilistic Monthly rainfall forecast for AMJ 2021

**There is no clear signal indicated over for the rainfall forecast of April – June (AMJ) 2021. Accordingly there is equal probability for below, near or above normal rainfalls during the AMJ 2021 season.**

## Monthly Rainfall Forecasts for April, May and June 2021




Month	Rainfall forecast
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">April 2021</div>	<p>There is a probability to receive slightly below or near normal rainfalls over most parts of the country during the month of April 2021.</p>
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">May 2021</div>	<p>During the month of May 2021, there is no clear signal indicated. Accordingly there is equal probability for below, near or above normal rainfalls during the month.</p>
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">June 2021</div>	<p>During the month of May 2021, there is no clear signal indicated. Accordingly there is equal probabilities for below, near or above normal rainfalls during the month.</p>

Fig 2.Monthly rainfall forecasts for April, May and June 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 April 2021

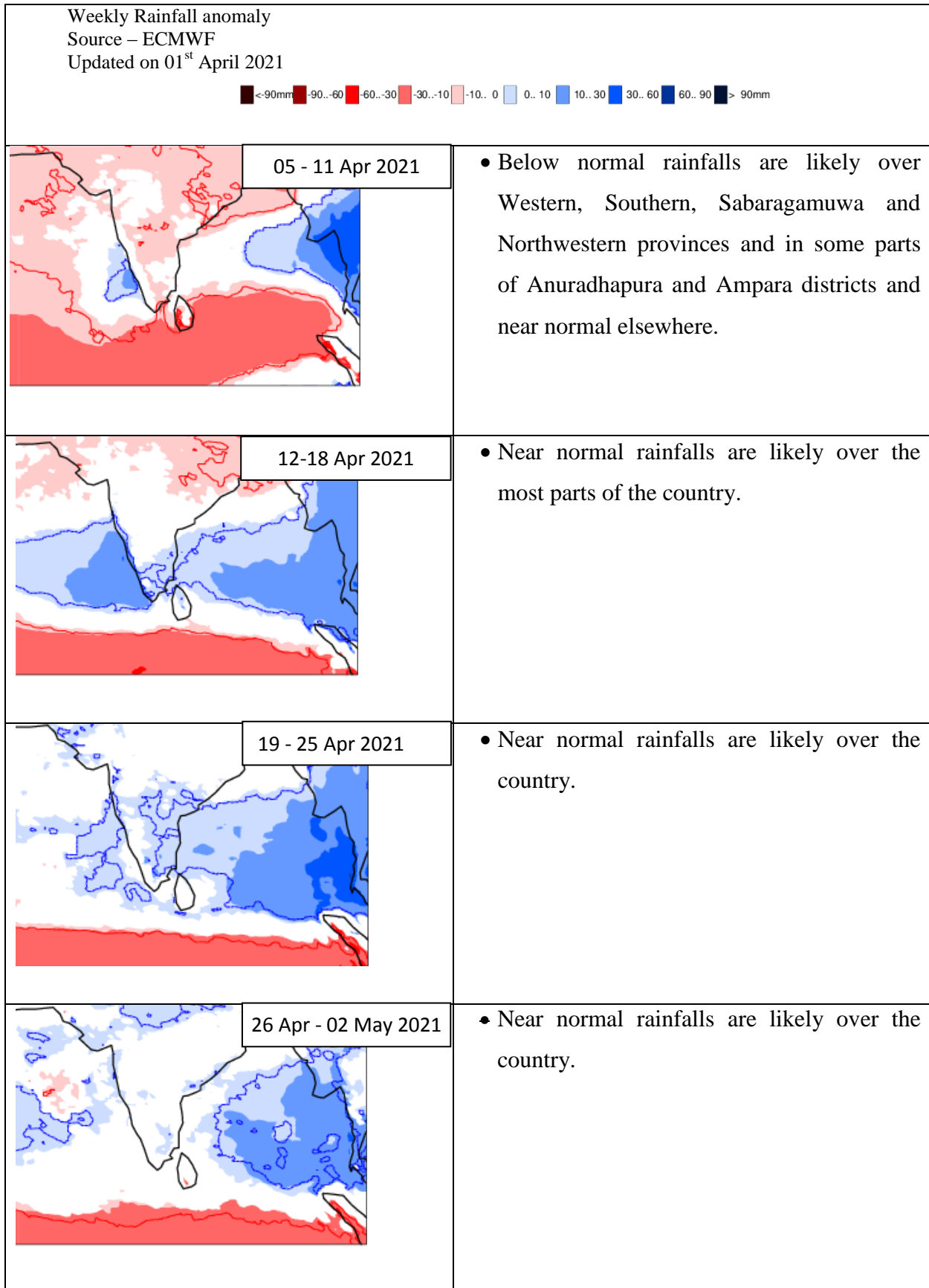


Fig 3. Weekly rainfall forecast for April 2021

## Observed rainfall anomaly during the month of March 2021

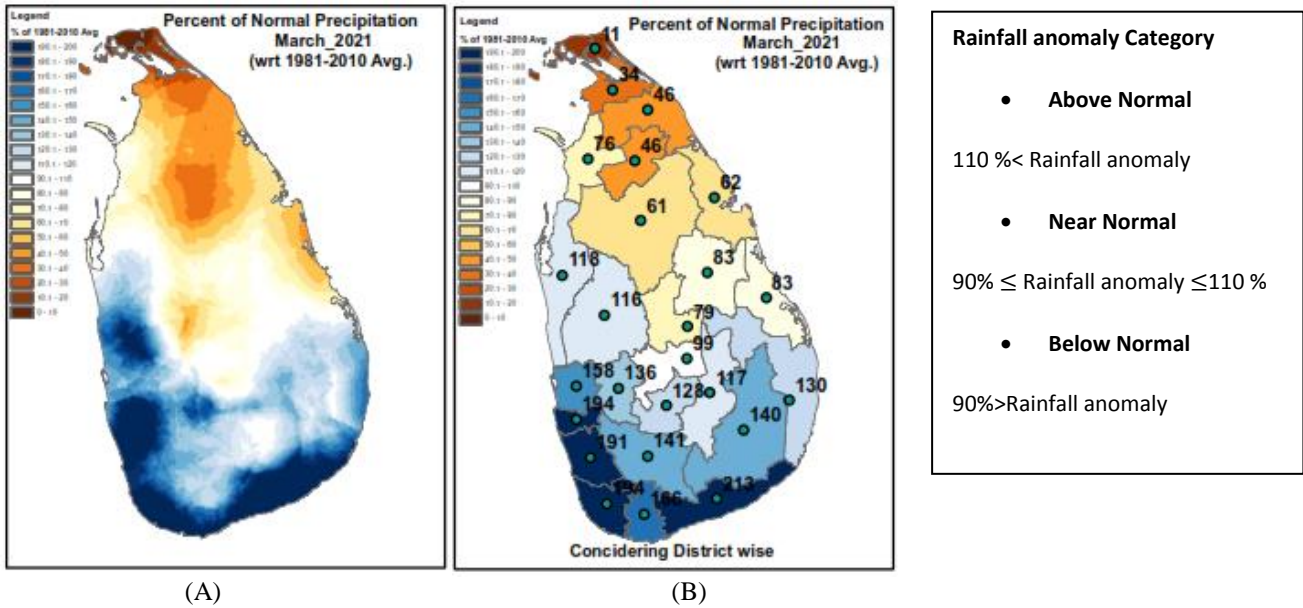


Fig 4: Observed rainfall anomaly during month of March 2021

According to the available rainfall data in the Department of Meteorology, below normal rainfalls were reported in Northern and Northcentral provinces and in Trincomalee, Batticaloa and Matale districts and near or above normal rainfalls elsewhere. Less than 50% of normal rainfalls were reported from Northern Province except Mannar district where it received 75% of normal rainfall during the month. Jaffna received only 11% of normal rainfall. Figure 4(B) shows the district wise observed rainfall as percentages of normal rainfall during the month of March 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 disasters.

## Annex-1

### District wise mean (30 years (1961-1990) of average) rainfalls during the months of April, May and June season.

<b>District</b>	<b>Average rainfall- April (mm)</b>	<b>Average rainfall- May (mm)</b>	<b>Average rainfall- June (mm)</b>
Colombo	281.6	413.3	247.6
Kalutara	356.2	526.9	350.8
Galle	305.6	423.5	290.5
Matara	221.5	301.3	241.1
Hambantota	105.6	88.2	52.0
Ampara	83.8	59.6	24.4
Batticaloa	61.2	57.3	25.5
Trincomalee	62.0	60.2	22.6
Mullaithivu	78.5	59.7	12.5
Jaffna	38.5	46.3	13.7
Killinochchi	61.4	50.9	9.4
Mannar	100.8	58.3	7.2
Puttalam	155.0	112.5	46.6
Gampaha	249.7	342.2	212.8
Kegalle	350.9	419.1	372.7
Ratnapura	307.1	354.8	277.3
Monaragala	163.4	93.6	24.8
Badulla	211.4	113.9	35.4
Pollonnaruwa	109.0	70.8	18.0
Vavuniya	110.2	67.1	10.6
Anuradapura	127.6	74.8	11.4
Kurunegala	204.4	143.5	86.3
Matale	168.8	101.2	44.0
Kandy	211.3	177.1	172.6
Nuwaraeliya	238.7	267.3	270.1

Table-01. 30 year Average (1961-1990) district wise rainfalls during the month of April, May and June

Table 01 shows the mean (30 year Average (1961-1990)) rainfalls during the month of April, May and June in each districts (it is kindly informed that it is not the expected amount of rainfall for each districts during April-June 2021). This is provided for your references.