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No SF-2022-05-R

Seasonal, Monthly and weekly Rainfall Forecasts for May-July 2022

Issued on 4th May 2022 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus climate outlook for May to July 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 summer 2022 and return to neutral during thereafter. Neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean and there is a possibility of negative IOD development in May and continue during the season. 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 May–July 2022(MJJ)



Fig 1.Consensus Probabilistic Monthly rainfall forecast for MJJ 2022

Below normal rainfalls are expected in Southern and Southwestern parts and no clear signal for remaining areas of the country for the season of MJJ 2022 (Fig. 1).

Monthly Rainfall Forecasts for May, June and July 2022




Month	Rainfall forecast
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: 10px;">May 2022</div>	<p>There is a possibility for slightly above normal rainfalls over Northern province and no clear signal for other areas where there are equal probability of having above or near or below normal rainfalls during the month of May 2022</p>
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: 10px;">June 2022</div>	<p>There is a probability for below normal rainfall over Southern and Southwestern parts and no clear signal for remaining areas of the country for the month of June 2022.</p>
 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: 10px;">July 2022</div>	<p>There is no clear signal and there exist equal probabilities for below or near or above normal rainfalls over the country during the month of July 2022.</p>

Fig 2. Monthly rainfall forecasts for May, June and July 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 May 2022

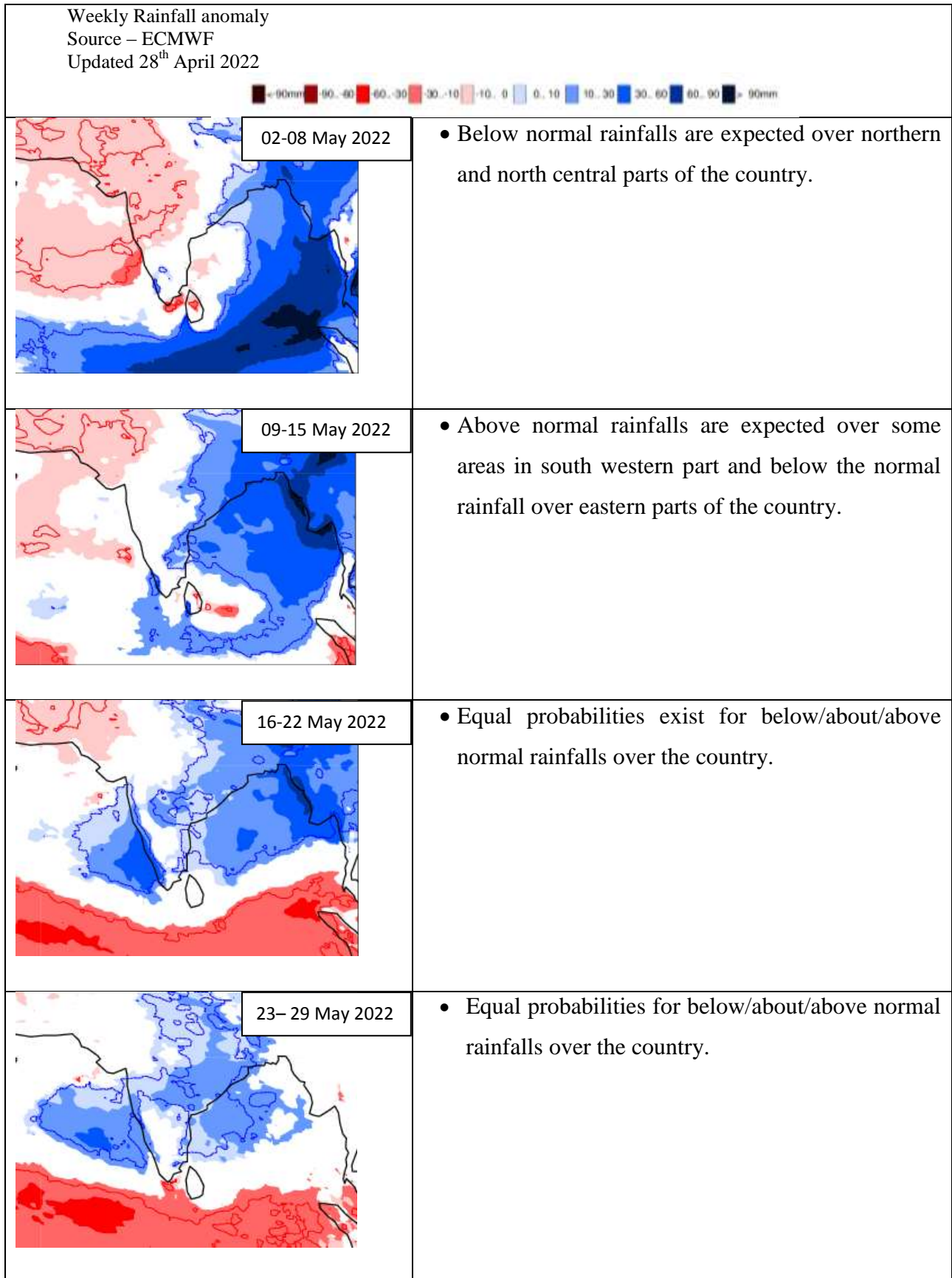


Fig 3. Weekly rainfall forecast for May 2022

Attention is requested for following areas

- More attention for the instructions and advisories issued by authorized agencies particularly on agriculture, water sectors and weather related activities.
- Generally there is a possibility for development of low pressure systems/depressions/cyclones in the vicinity of Sri Lanka during the coming months specially month of May.
- General public is kindly requested to take adequate precautions to minimize damages caused by lightning activity. There may be temporary localized strong winds during thundershowers.

Annex-1

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

District	Average rainfall- May (mm)	Average rainfall- June (mm)	Average rainfall- July(mm)
Colombo	413.3	247.6	180.0
Kalutara	526.9	350.8	262.9
Galle	423.5	290.5	240.7
Matara	301.3	241.1	171.6
Hambantota	88.2	52.0	45.7
Ampara	59.6	24.4	49.9
Batticaloa	57.3	25.5	55.1
Trincomalee	60.2	22.6	65.5
Mullaithivu	59.7	12.5	39.0
Jaffna	46.3	13.7	24.5
Killinochchi	50.9	9.4	21.8
Mannar	58.3	7.2	13.9
Puttalam	112.5	46.6	28.7
Gampaha	342.2	212.8	136.5
Kegalle	419.1	372.7	299.2
Ratnapura	354.8	277.3	201.4
Monaragala	93.6	24.8	51.2
Badulla	113.9	35.4	72.0
Pollonnaruwa	70.8	18.0	56.9
Vavuniya	67.1	10.6	42.7
Anuradapura	74.8	11.4	37.8
Kurunegala	143.5	86.3	68.0
Matale	101.2	44.0	60.3
Kandy	177.1	172.6	171.0
Nuwaraeliya	267.3	270.1	262.4

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

Table 01 shows the mean (30 year Average (1961-1990)) rainfalls during the month of May, June and July in each district.