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Seasonal, Monthly and weekly Rainfall Forecasts for June-August 2024

Issued on 4th June 2024 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus Climate Outlook for June to August 2024 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. A transition from El Niño to ENSO-neutral is likely in the next month. La Niña may develop in June-August 2024 (49% chance) or July-September (69%). The Indian Ocean Dipole (IOD) is currently neutral. The most recent 4 weeks have seen the IOD index within neutral thresholds, with the latest weekly value (+0.38 °C) just below the positive IOD threshold of (+0.40 °C). 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 June–August 2024 (JJA)

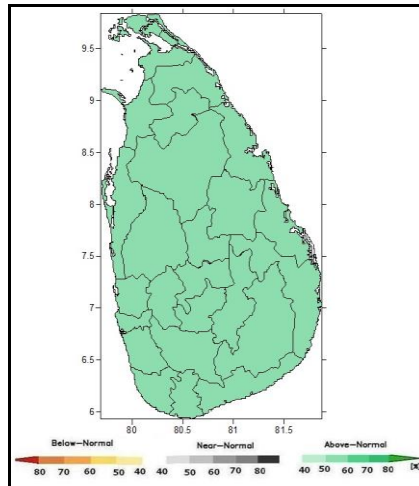


Fig 1.Consensus Probabilistic Monthly rainfall forecast for JJA 2024

Above normal rainfalls are likely over most parts during June- August 2024 season (Fig.01).

Monthly Rainfall Forecasts for June, July and August 2024

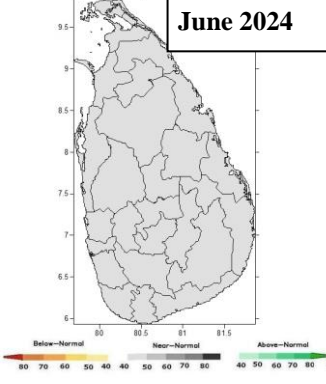
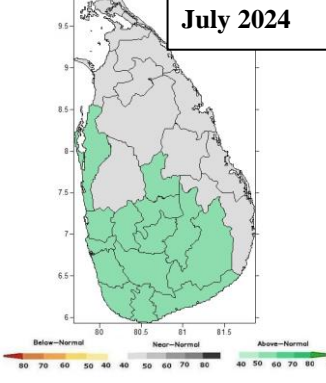
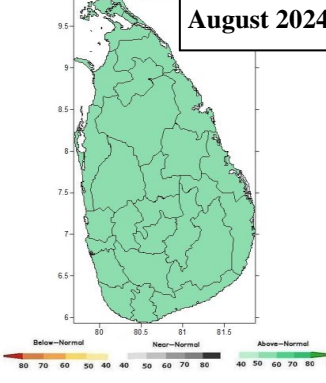
Month	Rainfall forecast
 <p style="text-align: center;">June 2024</p>	There is a higher chance of having near normal rainfalls over most parts of the country during the month of June 2024.
 <p style="text-align: center;">July 2024</p>	There is a probability of having above normal rainfalls over Western, Southern, Sabaragamuwa, Central and Uva provinces and in Puttalam district and near normal rainfalls over elsewhere during the month of July 2024.
 <p style="text-align: center;">August 2024</p>	There is a chance of having above normal rainfalls over most parts of the country during the month of August 2024.

Fig 2.Monthly rainfall forecasts for June, July and August 2024

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 June 2024


Weekly Rainfall anomaly Source – NCMRWF Updated on 30 th May 2024		
NCMRWF ERP Forecast Precipitation Anomaly (mm/day) <small>Week-1: 31May-06Jun Issued on 30May2024</small>	31 May-06 Jun 2024	<ul style="list-style-type: none"> Below normal rainfalls are likely over some areas in Western, Northwestern, Southern and Sabaragamuwa provinces and near normal rainfalls are likely over remaining parts of the country.
NCMRWF ERP Forecast Precipitation Anomaly (mm/day) <small>Week-2: 07Jun-13Jun Issued on 30May2024</small>	07-13 Jun 2024	<ul style="list-style-type: none"> Below normal rainfalls are likely over Western, Northwestern, Southern and Sabaragamuwa provinces and some areas in Central and Uva provinces. Near normal rainfalls are likely over remaining areas of the country.
NCMRWF ERP Forecast Precipitation Anomaly (mm/day) <small>Week-3: 14Jun-20Jun Issued on 30May2024</small>	14-20 Jun 2024	<ul style="list-style-type: none"> Below normal rainfalls are likely over Western, Northwestern, Southern and Sabaragamuwa provinces and some areas in Central and Uva provinces. Near normal rainfalls are likely over remaining areas of the country.
NCMRWF ERP Forecast Precipitation Anomaly (mm/day) <small>Week-4: 21Jun-27Jun Issued on 30May2024</small>	21-27 Jun 2024	<ul style="list-style-type: none"> Above normal rainfalls are likely over Kalutara, Galle and Matara districts and near normal rainfalls are likely over remaining areas of the country.

Fig 3. Weekly rainfall forecast for June 2024

Attention is requested for following areas

- More attention for the instructions and advisories issued by authorized agencies particularly related to extreme weather.
- Generally there is a possibility for developing wavy type disturbances over and vicinity of Sri Lanka during the season.
- Floods, Landslides and Strong windy condition are also possible particularly over SW parts of the country.

Annex-1

District wise mean (30 years (1981-2010) of average) rainfalls during the months of

June, July and August

District	Average rainfall- June(mm)	Average rainfall- July (mm)	Average rainfall- August(mm)
Colombo	237.6	169.7	148.6
Kalutara	341.0	245.2	227.1
Galle	296.6	223.0	206.1
Matara	234.0	159.1	171.4
Hambantota	45.2	37.0	44.6
Ampara	24.2	40.5	41.2
Batticaloa	23.1	41.3	46.2
Trincomalee	17.8	54.3	70.6
Mullaithivu	19.7	31.4	42.3
Jaffna	17.0	26.9	37.4
Killinochchi	15.4	22.1	32.8
Mannar	14.5	14.5	13.8
Puttalam	44.8	30.5	23.9
Gampaha	194.4	130.0	117.8
Kegalle	353.3	275.1	224.4
Ratnapura	279.8	202.2	189.3
Monaragala	27.0	44.0	43.9
Badulla	37.7	59.7	63.5
Pollonnaruwa	11.8	39.0	47.1
Vavuniya	22.8	38.0	40.3
Anuradapura	16.8	35.7	37.1
Kurunegala	76.6	56.4	50.1
Matale	45.7	51.7	51.2
Kandy	159.0	145.0	116.7
Nuwaraeliya	287.0	258.6	202.8

Table 01: 30 year Average (1981-2010) district wise rainfalls during the month of June, July and August

Table 01 shows the mean (30 year Average (1981-2010)) rainfalls during the month of June, July and August in each district.