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No SF-07

Monthly and weekly Rainfall Forecast for July 2020

Issued on 1st July 2020 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

According to the global numerical model outputs and prevailing atmospheric conditions, following monthly and weekly rainfall forecasts are prepared.

Monthly Rainfall Forecast for July 2020

Near normal rainfall is likely over most parts of the Island during the month of July 2020.

However, the predictability is also limited due to strong day-to-day atmospheric variability caused by the synoptic scale systems such as lows and depressions which form in Bay of Bengal, Arabian sea and in Pacific ocean and intraseasonal Oscillations such as Madden Julian Oscillations (MJO). (District wise normal (mean) rainfall values are indicated in annex -1)

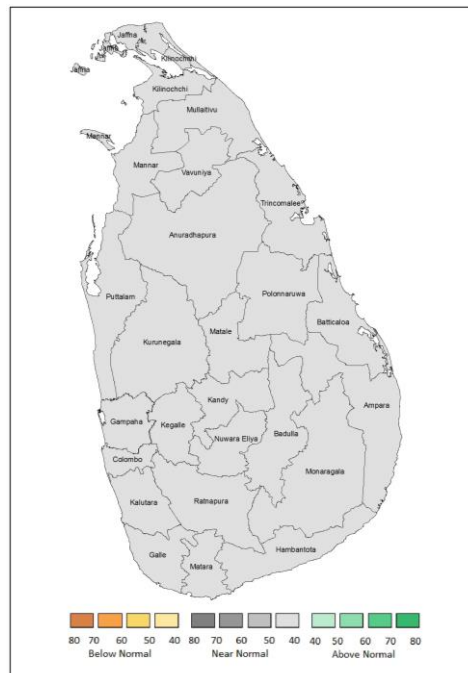


Fig 1. Consensus Probabilistic Monthly rainfall forecast for July 2020

Weekly Rainfall forecasts for the month of July 2020

First week (1-6 July 2020)

A slightly above normal rainfalls in Galle, Matara, Kalutara and Jaffna districts and below normal rainfalls are likely elsewhere.

Several spells of light showers in Southwestern parts and isolated afternoon thundershowers are likely in Northern and Eastern provinces.

Second Week (7-13 July 2020)

Mostly below normal rainfalls are likely in southwestern parts and near normal elsewhere. However there is a chance for a slightly above normal rainfalls in Trincomalee, Mullative and Jaffna districts.

Light showers in Southwestern parts particularly in the morning and isolated afternoon thundershowers are likely in Trincomalee, Mullative and Jaffna districts.

Third week (14-20 July 2020)

Higher chance for below normal rainfalls in southwestern part of the country and near normal elsewhere. However there is a chance for a slightly above normal rainfalls in Uva Province and in Ampara and Batticalo districts.

Light showers are likely in Southwestern parts, particularly in the morning and isolated afternoon thundershowers in Uva Province and in Ampara and Batticalo districts.

Fourth Week (21-27 July 2020)

Above normal rainfalls are likely over most parts of the country. But the possibility for near normal rainfalls in Northern part is high.

Showery condition is likely to enhance during this week with fairly heavy showers in SW part of the country.

Seasonal Rainfall forecast July- September 2020

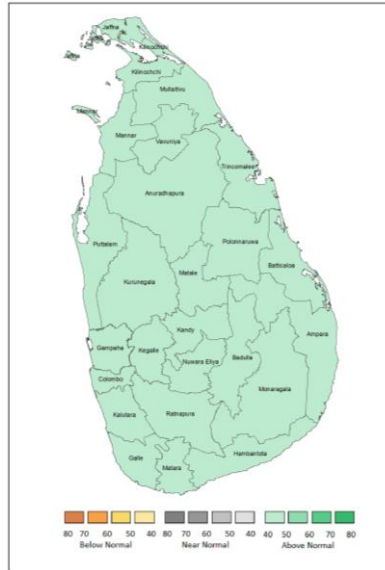


Fig 2.Consensus Probabilistic Monthly rainfall forecast for July- September 2020

Considering the prevailing global climate conditions, forecasts from different global climate models and statistical downscaling of GCM output using Climate Predictability Tool, consensus rainfall forecast for July to September 2020 is expected above normal over Sri Lanka.

Observed rainfall anomaly during the month of June 2020

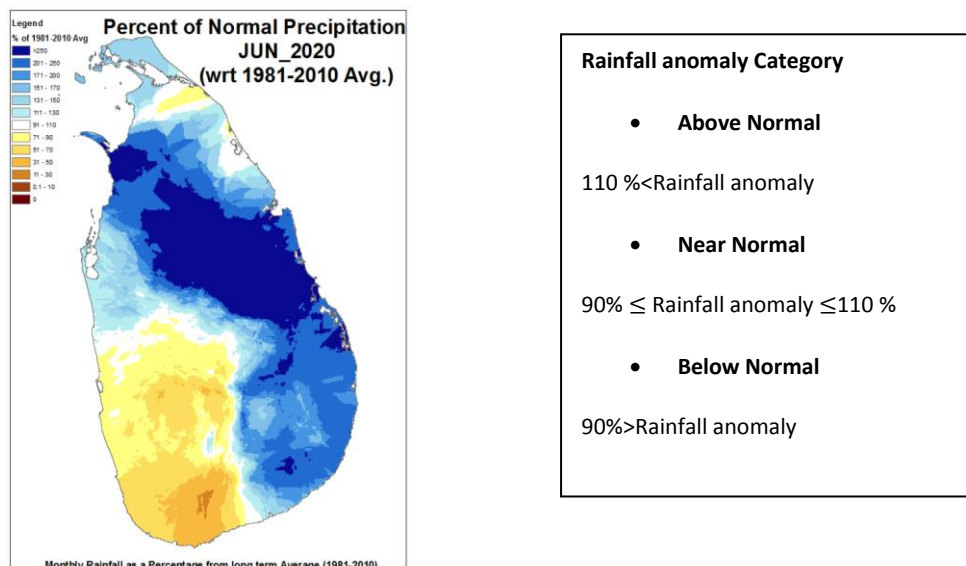


Fig 3.Rainfall anomaly during month of June 2020

According to the available rainfall observations in Department of Meteorology, below normal rainfalls were reported in most parts in wet zone and above normal rainfall in most parts of the intermediate zone and dry zone of the country during the month of June 2020.

Probabilistic Temperature Forecast for July 2020

The probabilistic Temperature forecast in Sri Lanka for July 2020 as given below.

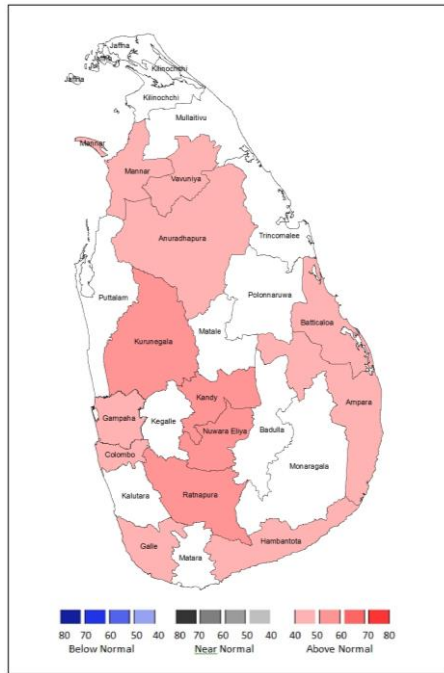


Fig 1:

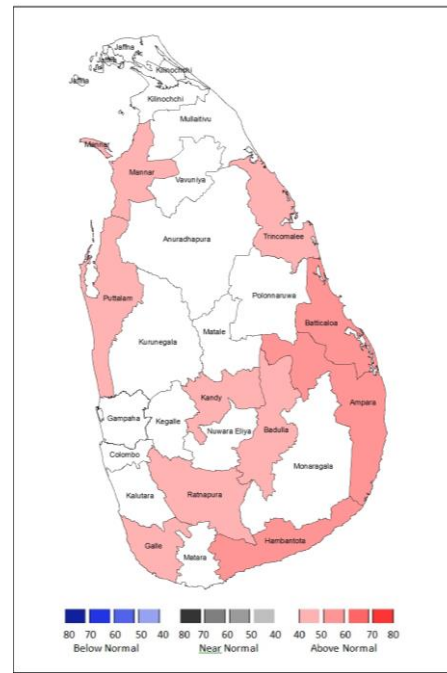


Fig 2

Figure 1 shows the Probabilistic forecast for Maximum Temperatures in Sri Lanka during July 2020. Accordingly, there is a chance of experiencing slightly above the normal Maximum temperatures in Mannar, Vavuniya, Anuradapura, Batticaloa, Ampara, Hambantota, Galle, Ratnapura, Kandy, NuwaraEliya, Colombo, Gampaha, and Kurunegala Districts for the month of July 2020.

Figure 2 shows the Probabilistic forecast for Minimum Temperature forecast for Sri Lanka during July2020. Accordingly, there is a chance of experiencing slightly above the normal Minimum Temperatures in Mannar, Puttalam, Trincomalee, Batticaloa, Ampara, Hambantota, Galle, Ratnapura, Badulla, and Kandy Districts for the month of July 2020.

Table 1 and 2 provide district wise probabilistic forecasts for Maximum and Minimum temperatures during July 2020 respectively. 30 years of average of Maximum and Minimum Temperatures during July is given in the column 2 and the chance (probability) of receiving below/about/above average is given in the columns 3, 4, and 5 respectively in the table 1 and table 2.

Table 1: probabilistic forecast for Maximum Temperature for July 2020

District	Average Maximum Temperature (°C) – (July)	Probability %		
		Below	Normal	Above
Anuradhapura	33.0	30	30	40
Badulla	30.6	35	35	30
Batticaloa	33.4	20	35	45
Colombo	30.0	30	30	40
Galle	28.6	30	25	45
Hambantota	30.6	20	35	45
Katugastota	27.8	20	25	55
Katunayake	30.4	30	30	40
Mannar	30.7	20	35	45
MahaIlluppallama	32.7	25	30	45
NuwaraEliya	18.5	25	20	55
Pottuvil	34.1	30	30	40
Puttalam	31.4	35	30	35
Ratnapura	30.7	20	25	55
Ratmalana	30.2	30	25	45
Trincomalee	34.5	35	35	30
Vavuniya	34.0	35	20	45
Kurunegala	30.8	20	25	55
Bandarawela	25.8	35	30	35

Table 2: Probabilistic forecast for Minimum Temperatures for July2020

District	Average Minimum Temperature (°C) – (July)	Probability %		
		Below	Normal	Above
Anuradhapura	24.5	35	35	30
Badulla	18.5	35	20	45
Batticaloa	25.3	20	25	55
Colombo	25.2	30	35	35
Galle	24.8	25	30	45
Hambantota	24.7	20	25	55
Katugastota	21.1	20	35	45
Katunayake	24.9	35	30	35
Mannar	26.5	30	30	40
MahaIlluppallama	24.3	35	35	30
NuwaraEliya	12.8	35	30	35
Pottuvil	24.9	25	20	55
Puttalam	25.6	25	30	45
Ratnapura	23.5	30	30	40
Ratmalana	24.9	35	35	30
Trincomalee	25.8	25	30	45
Vavuniya	24.3	30	35	35
Kurunegala	23.9	35	30	35
Bandarawela	16.7	20	35	45

Attention is requested for following areas

- Precautions to minimize damages from sudden strong gusty winds
- Flood and Landslides in Southwestern parts during last week of the month of July
- Water conservation and management activities Northern, Eastern, North central and Uva provinces
- Prevention of Forest fire along the slopes of central hills

Annex-1

District wise mean (30 years (1961-1990) of average) rainfalls during the month of July.

District	Average rainfall (mm) –(July)
Colombo	180.0
Kalutara	262.9
Galle	240.7
Matara	171.6
Hambantota	45.7
Ampara	49.9
Batticaloa	55.1
Trincomalee	65.5
Mullaithivu	39.0
Jaffna	24.5
Killinochchi	21.8
Mannar	13.9
Puttalam	28.7
Gampaha	136.5
Kegalle	299.2
Ratnapura	201.4
Monaragala	51.2
Badulla	72.0
Pollonnaruwa	56.9
Vavuniya	42.7
Anuradapura	37.8
Kurunegala	68.0
Matale	60.3
Kandy	171.0
Nuwaraeliya	262.4

Table-01. 30 year Average (1961-1990) district wise rainfalls during the month of July.

Table 01 shows the mean (30 year Average (1961-1990)) rainfalls during the month of July in each districts and it is kindly informed that it is not the expected rainfalls amounts for each districts during July 2020.This is provided for your references.