

Probabilistic Rainfall Forecast for May 2018

The probabilistic rainfall forecast for May 2018 for Sri Lanka as given below.

The district wise average rainfall is given in the column 2 of the table 1. Chance (probability) of receiving below/about/above average is given in the columns 3, 4, and 5 respectively in the table 1.

Except for districts located in southwest quarter and Jaffna district, there is a higher chance of receiving slightly above average rainfall in remaining districts for the month of May 2018. There is no signal for districts located in southwest quarter and Jaffna district (Fig. 1) indicating equal chances of receiving below normal, near normal and above normal rainfall for those districts during month of May.

Figure 2 represents the weekly rainfall anomaly forecast for May 2018 from Japanese Meteorological Administration (JMA) model. Below normal rainfall can be expected during the first week in northwestern parts of the country. Above normal rainfall can be expected during rest of the weeks of May 2018 (Fig 2). According to the monthly rainfall anomaly forecast for May 2018 from Japanese Meteorological Administration (JMA) model (Fig. 3), slightly above normal rainfall can be expected for May 2018.

The probabilistic rainfall forecast for May 2018 for Sri Lanka as given below.

District	Average rainfall (mm) –(May)	Probability %		
		Below	Normal	Above
Colombo	413.3	30	35	35
Kalutara	526.9	35	35	30
Galle	423.5	35	30	30
Matara	301.3	35	30	30
Hambantota	88.2	20	20	60
Ampara	59.6	20	20	60
Batticaloa	57.3	20	20	60
Trincomalee	60.2	20	30	50
Mullaithivu	59.7	20	30	50
Jaffna	46.3	30	30	40
Killinochchi	50.9	30	30	40
Mannar	58.3	20	30	50
Puttalam	112.5	20	30	50
Gampaha	342.2	40	30	30
Kegalle	419.1	40	30	30
Ratnapura	354.8	30	30	40
Monaragala	93.6	20	20	60
Badulla	113.9	20	20	60
Pollonnaruwa	70.8	20	20	60
Vavuniya	67.1	25	25	50
Anuradapura	74.8	20	25	55
Kurunegala	143.5	25	25	50
Matale	101.2	20	20	60
Kandy	177.1	20	30	50
Nuwaraeliya	267.3	25	25	50

Table 1

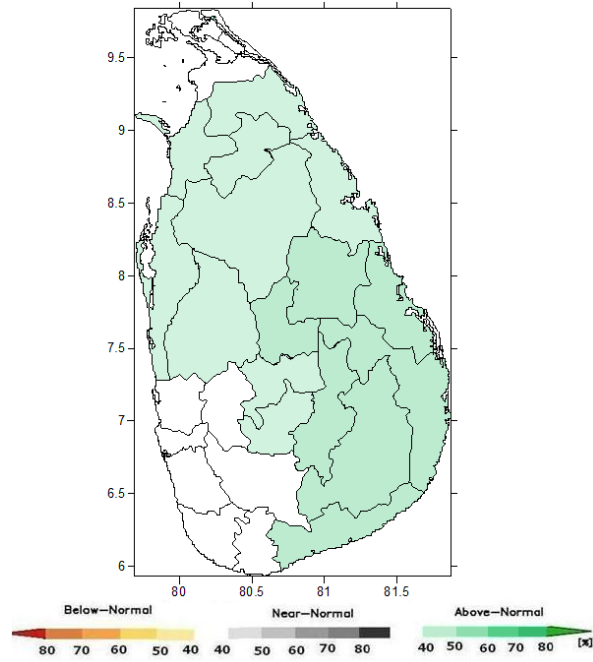


Fig 1. Probabilistic rainfall forecast for May 2018

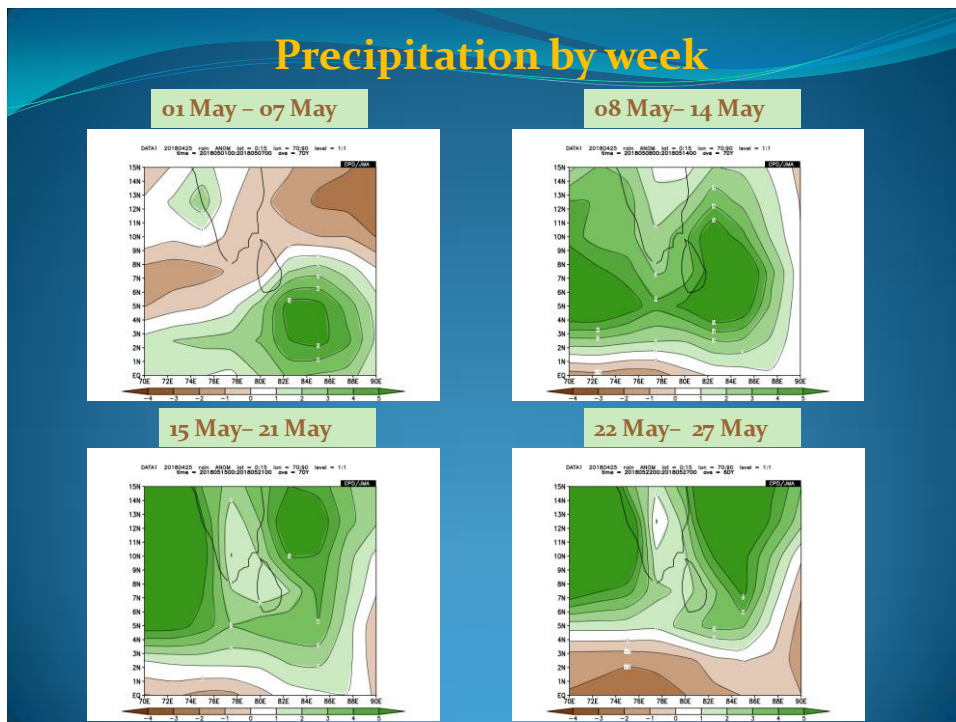


Fig 2. Weekly Rainfall anomaly forecast for May 2018 (01 May – 07 May, Upper left), (08 May –14 May, Upper right), (15 May – 21May Lower left) and (22 May–27 May, Lower right) from JMA model

Precipitation Anomaly

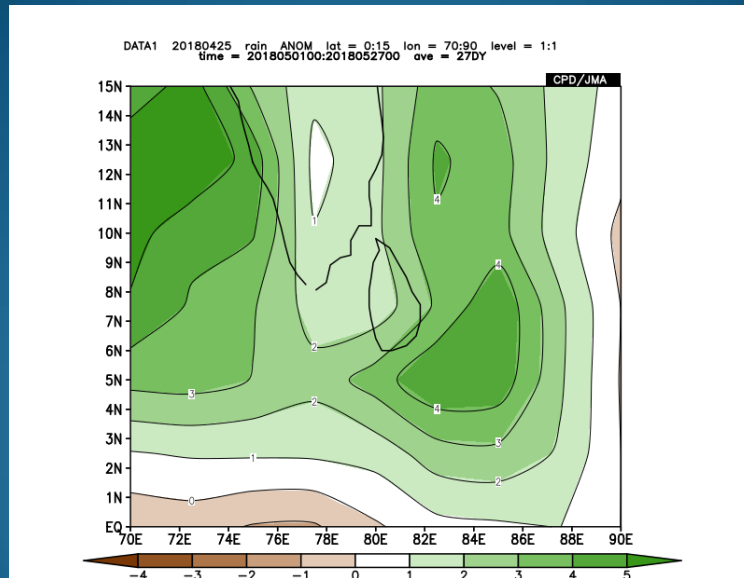


Fig 3. Rainfall anomaly forecast for May 2018 (mm/day) from JMA model