

Probabilistic Rainfall Forecast for August 2018

The probabilistic rainfall forecast for August 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.

There is a higher chance of receiving slightly below average rainfall in Jaffna, Killinochchi, Mulathivu, Vavuniya, Trincomalee, Mannar, Puttalam, Anuradhapura and Kurunegala districts and there is no Signal over the rest of the districts for August 2018 (Fig 1).

Figure 2 represents the weekly rainfall anomaly forecast for August 2018 from Japanese Meteorological Administration (JMA) model. Below normal rainfall can be expected over most parts of the country from first week to the last week of August 2018 (Fig 2). According to the monthly rainfall anomaly forecast for August 2018 from Japanese Meteorological Administration (JMA) model (Fig. 3), slightly below normal rainfall can be expected over most parts of the island for August 2018.

Figure 4 represents the multi-model ensemble probabilistic rainfall forecast for August 2018 from Forecast Customization System (FOCUS) for Sri Lanka, developed by Regional Integrated Multi-Hazard Early Warning System (RIMES). According to the FOCUS, there is a higher probability of receiving above normal rainfall in wet zone, and there is no signal for intermediate zone and dry zone for August 2018.

Figure 5 represents the probabilistic rainfall forecast from Climate Predictability tool (CPT) for August 2018. According to the CPT there is a higher chance of receiving above normal rainfall in most parts of Sri Lanka except the districts Gampaha, Colombo, Kalutara, Galle, Rathnapura and Kegalle. There is no signal shown in these districts according to the CPT.

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

District	Average rainfall (mm) –(August)	Probability %		
		Below	Normal	Above
Colombo	162.5	30	30	40
Kalutara	247.8	30	30	40
Galle	239.8	30	30	40
Matara	191.6	35	30	35
Hambantota	49.2	35	30	35
Ampara	57.3	40	30	30
Batticaloa	60.5	30	30	40
Trincomalee	80.7	50	25	25
Mullaithivu	48.0	50	25	25
Jaffna	33.3	50	25	25
Killinochchi	25.9	50	25	25
Mannar	19.2	50	25	25
Puttalam	23.1	45	30	25
Gampaha	129.1	30	30	40
Kegalle	262.9	30	30	40
Ratnapura	196.4	30	30	40
Monaragala	49.9	35	30	35
Badulla	76.3	35	30	35
Pollonnaruwa	54.0	35	30	35
Vavuniya	56.5	50	25	25
Anuradapura	40.5	50	25	25
Kurunegala	58.1	45	30	25
Matale	59.2	40	30	30
Kandy	154.0	40	30	30
Nuwaraeliya	234.5	40	30	30

Table 1

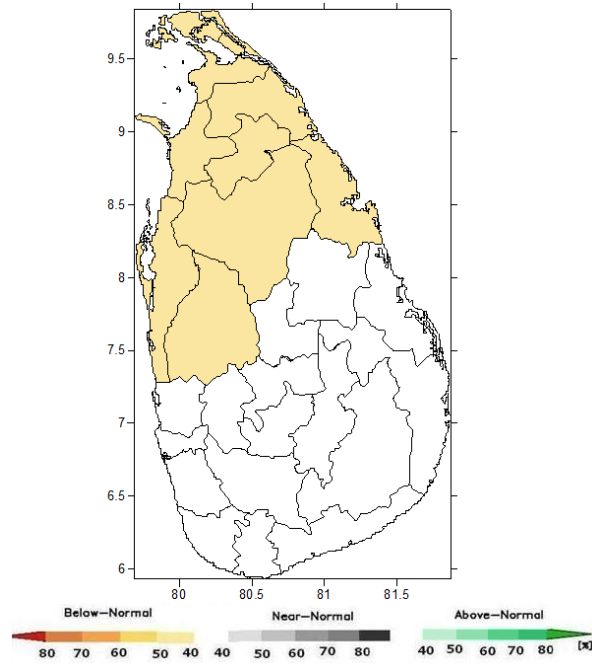


Fig 1. Probabilistic rainfall forecast for August2018

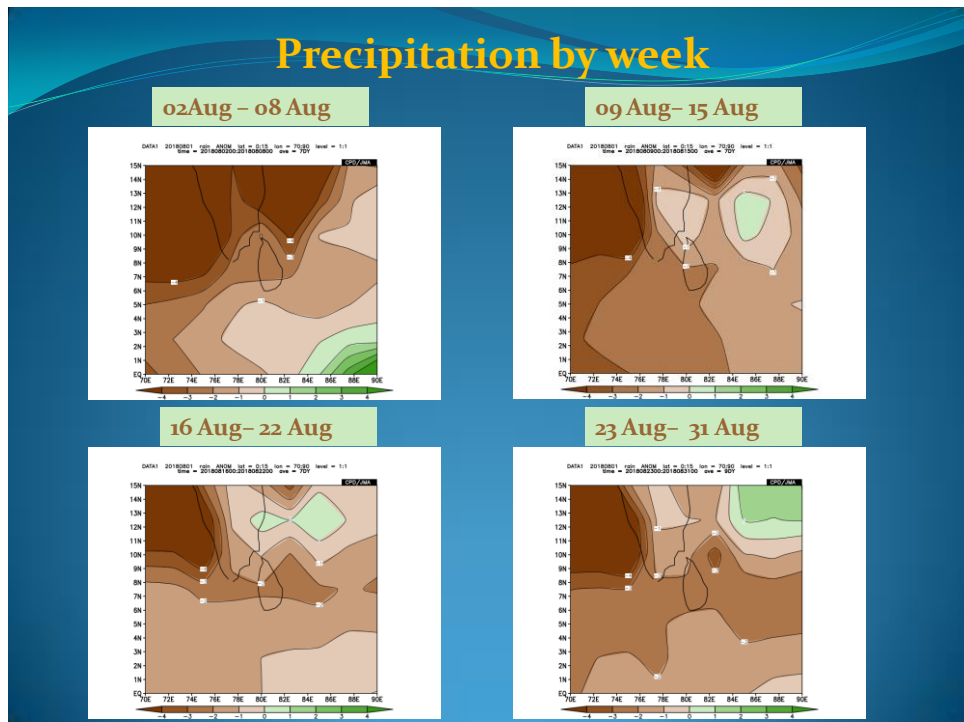


Fig 2. Weekly Rainfall anomaly forecast for August2018 (02 August – 08 August, Upper left), (09 August – 15 August, Upper right), (16 August – 22 August Lower left) and (23 August–31August, Lower right)from JMA model.

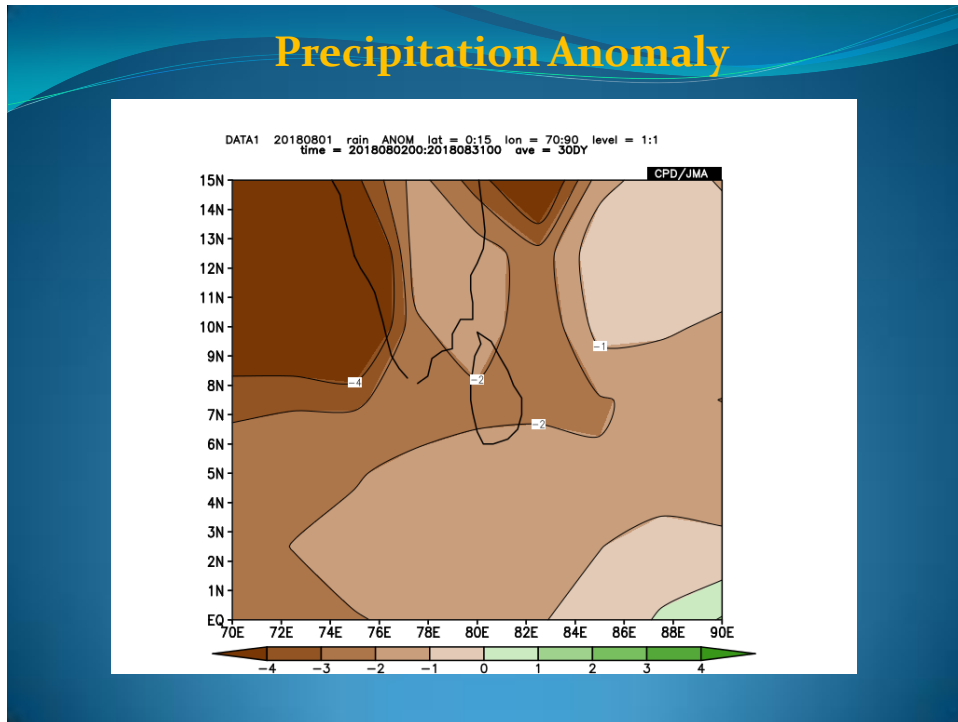


Fig 3. Rainfall anomaly forecast for August 2018 (mm/day) from JMA model

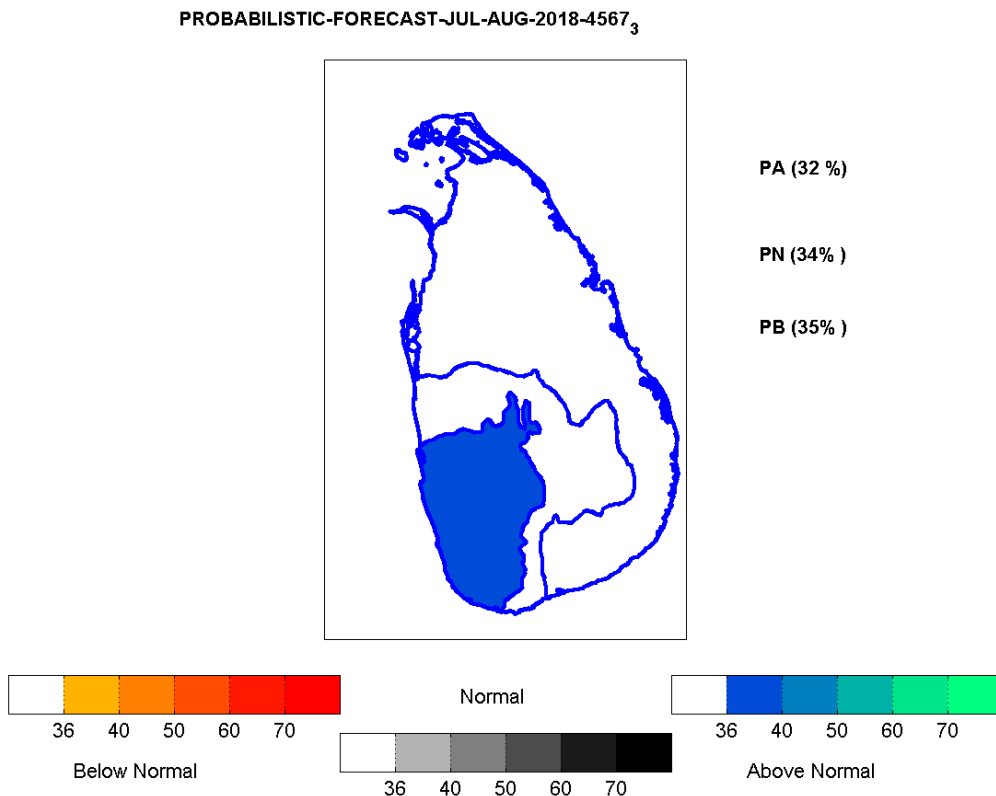


Fig 4. Multi-model ensemble probabilistic forecast for August 2018 from RIMES Forecast Customization System (FOCUS).

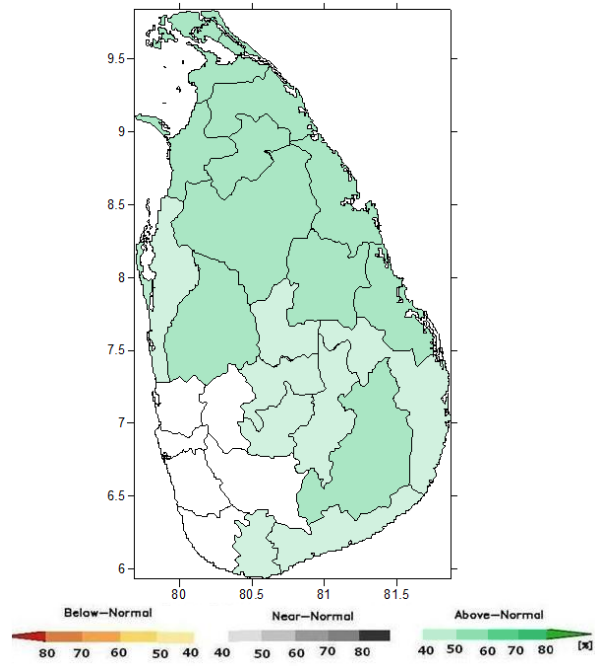


Fig 5. Probabilistic rainfall forecast using Climate predictability tool for August 2018