

Probabilistic Rainfall Forecast for January 2018

The probabilistic rainfall forecast for January 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 above average rainfall in all districts for the month of January 2018.

Figure 2 represents the weekly rainfall anomaly forecast for January 2018 from Japanese Meteorological Administration (JMA) model. Above normal rainfall can be expected for second, third and fourth week starting from 08th January to 29th January. According to the monthly rainfall anomaly forecast for January 2018 from Japanese Meteorological Administration (JMA) model (Fig 3), above normal rainfall can be expected for January 2018.

Figure 4 represents the multi-model ensemble probabilistic rainfall forecast for January 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 the dry zone. There is no signal in wet zone and intermediate zone for January 2018.

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

District	Average rainfall (mm) –(January)	Probability %		
		Below	Normal	Above
Colombo	77.2	25	30	45
Kalutara	122.7	25	30	45
Galle	127.0	25	30	45
Matara	125.2	25	30	45
Hambantota	70.9	25	30	45
Ampara	210.1	25	25	50
Batticaloa	194.3	30	30	40
Trincomalee	127.4	30	30	40
Mullaithivu	77.2	25	25	50
Jaffna	70.7	25	30	45
Killinochchi	76.7	25	30	45
Mannar	53.8	25	30	45
Puttalam	46.9	25	30	45
Gampaha	53.7	25	30	45
Kegalle	77.4	25	30	45
Ratnapura	117.0	30	30	40
Monaragala	129.7	30	30	40
Badulla	232.3	30	30	40
Pollonnaruwa	164.1	30	30	40
Vavuniya	74.2	25	30	45
Anuradapura	84.6	25	30	45
Kurunegala	63.5	25	30	45
Matale	202.0	25	30	45
Kandy	159.8	25	30	45
Nuwaraeliya	138.3	25	30	45

Table 1

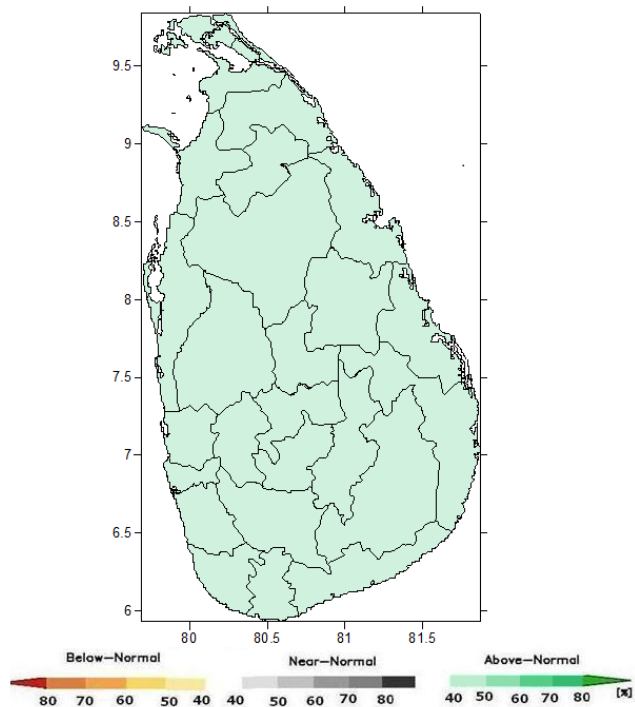


Fig 1. Probabilistic rainfall forecast for January 2018

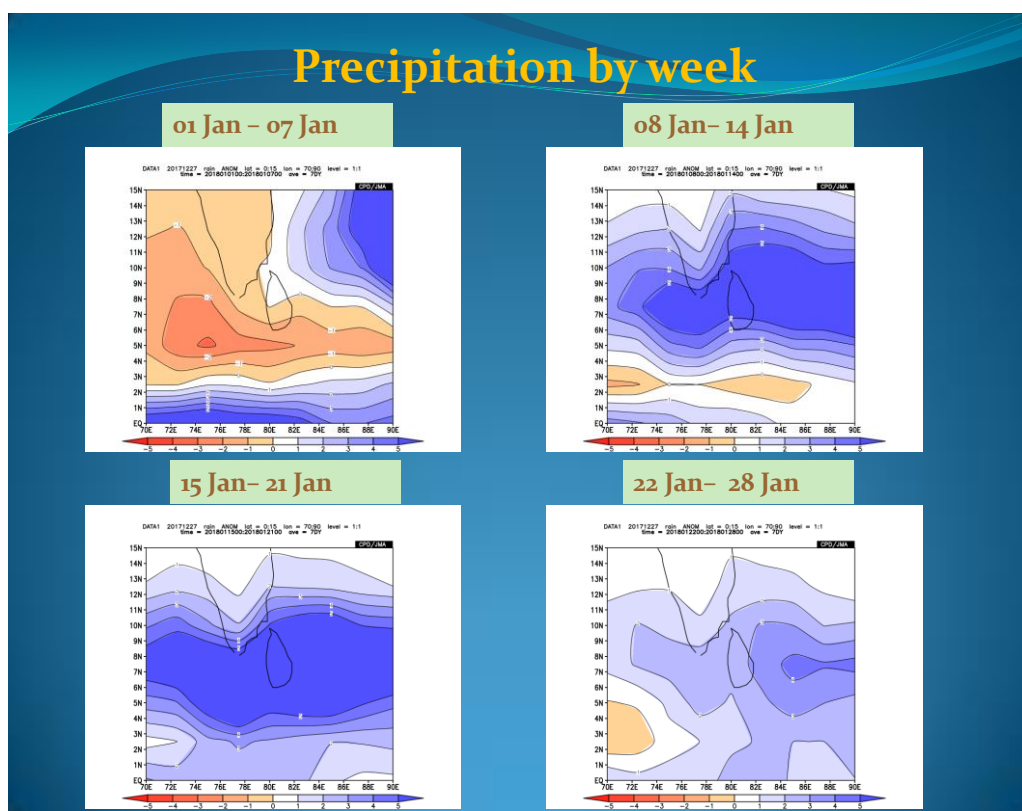


Fig 2. Weekly Rainfall anomaly forecast for January 2018 (01 January – 07 January, Upper left), (08 January – 14 January, Upper right), (15 January – 21 January Lower left) and (22 January– 28 January, Lower right) from JMA model

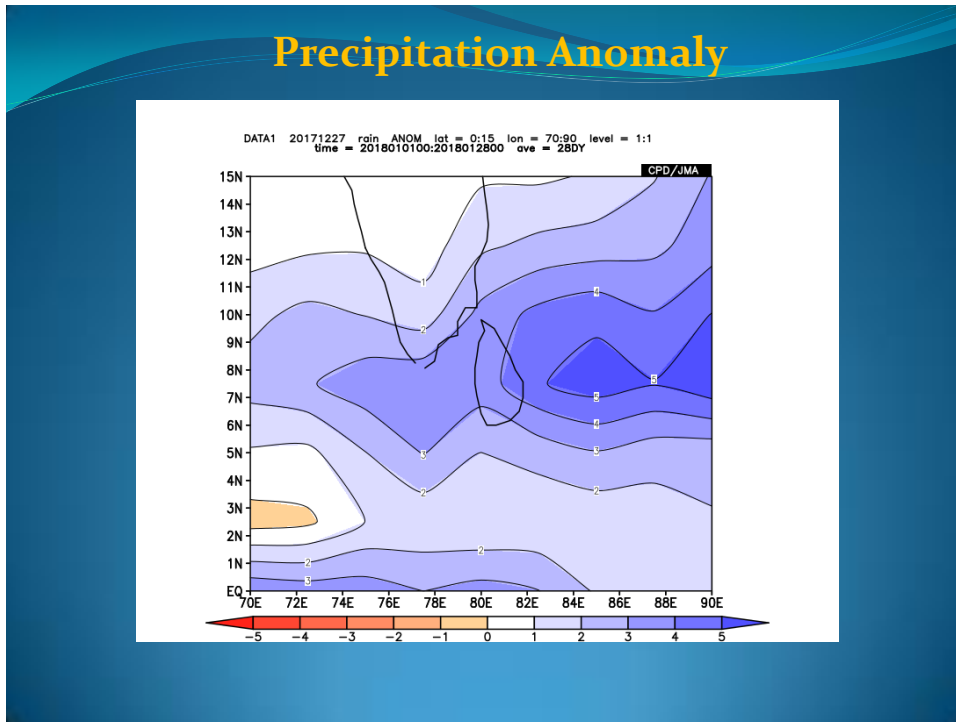


Fig 3. Rainfall anomaly forecast for January 2018 (mm/day) from JMA model

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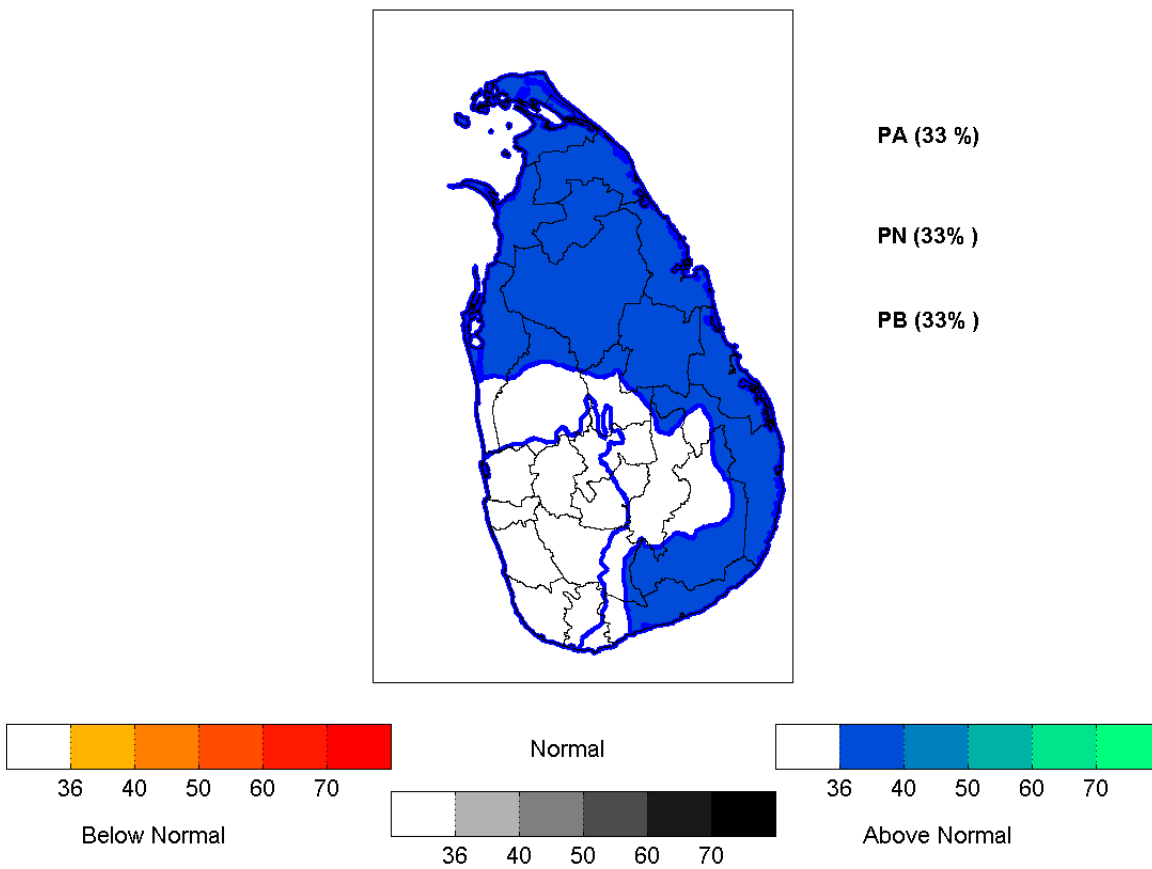


Fig 4. Multi-model ensemble probabilistic forecast for January 2018 from RIMES Forecast Customization System (FOCUS).