Probabilistic Rainfall Forecast for February 2017

The probabilistic rainfall forecast for February 2017 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 chances of receiving near normal rainfall in for districts except Colombo, Gampaha Kalutara, Galle and Matara for the month of February 2017. Below normal rainfall can be expected for Colombo, Gampaha Kalutara, Galle and Matara districts for February 2017

Figure 2 represents the weekly rainfall anomaly forecast for February 2017 from Japanese Meteorological Administration (JMA) model. Negative rainfall anomaly can be expected for first 2 weeks starting from 01 February to 14 February and positive rainfall anomaly can be expected for last 2 weeks starting from 15 February to 28 February Negative rainfall anomaly can be expected for first 2 weeks starting from 01 February to 14 February . According to the monthly rainfall anomaly forecast for February 2017 from Japanese Meteorological Administration (JMA) model (Fig 3), slightly negative and slightly positive rainfall anomaly can be expected over northern and southern parts of Sri Lanka respectively for February 2017.

Figure 4 represents the multi-model ensemble probabilistic rainfall forecast for February 2017 from Forecast Customization System (FOCUS) for Sri Lanka developed by Regional Integrated Multi-Hazard Early Warning SystemRIMES.According to the FOCUS, near normal rainfall can be expected for wet zone, dry zone and intermediate zone for February 2017.

The probabilistic rainfall forecast for February 2017 for Sri Lanka as given below.

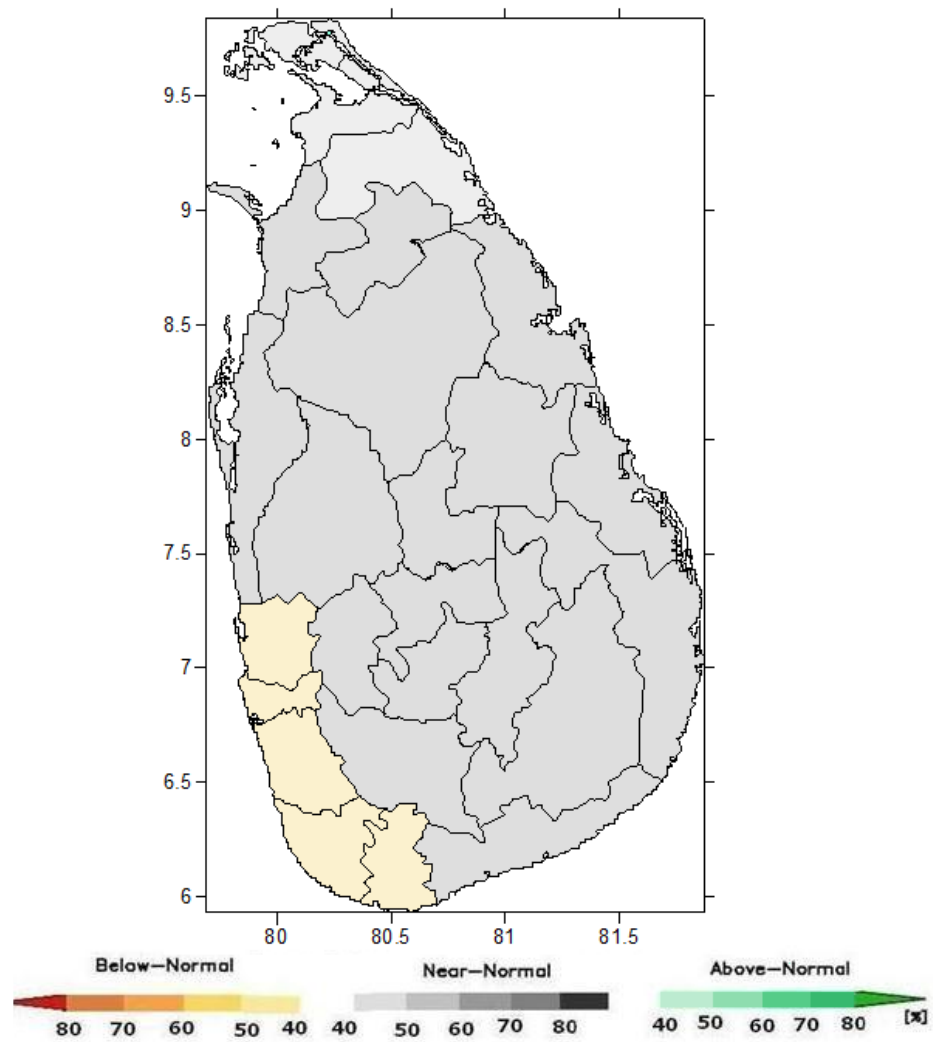| District	Average rainfall (mm) –(February)	Probability %		
		Below	Normal	Above
Colombo	89.7	50	25	25
Kalutara	119.3	50	25	25
Galle	118.2	50	25	25
Matara	99.7	50	25	25
Hambantota	63.7	30	40	30
Ampara	144.9	25	50	25
Batticaloa	121.9	25	50	25
Trincomalee	82.4	25	50	25
Mullaithivu	59.9	30	40	30
Jaffna	32.5	30	40	30
Killinochchi	50.3	30	40	30
Mannar	48.4	30	40	30
Puttalam	38.5	25	50	25
Gampaha	76.8	50	25	25
Kegalle	98.3	25	50	25
Ratnapura	117.9	25	50	25
Monaragala	110.4	25	50	25
Badulla	160.6	25	50	25
Pollonnaruwa	106.2	25	50	25
Vavuniya	53.7	30	40	30
Anuradapura	55.7	25	50	25
Kurunegala	62.5	25	50	25
Matale	121.5	25	50	25
Kandy	118.3	25	50	25
Nuwaraeliya	104.8	25	50	25

Table 1
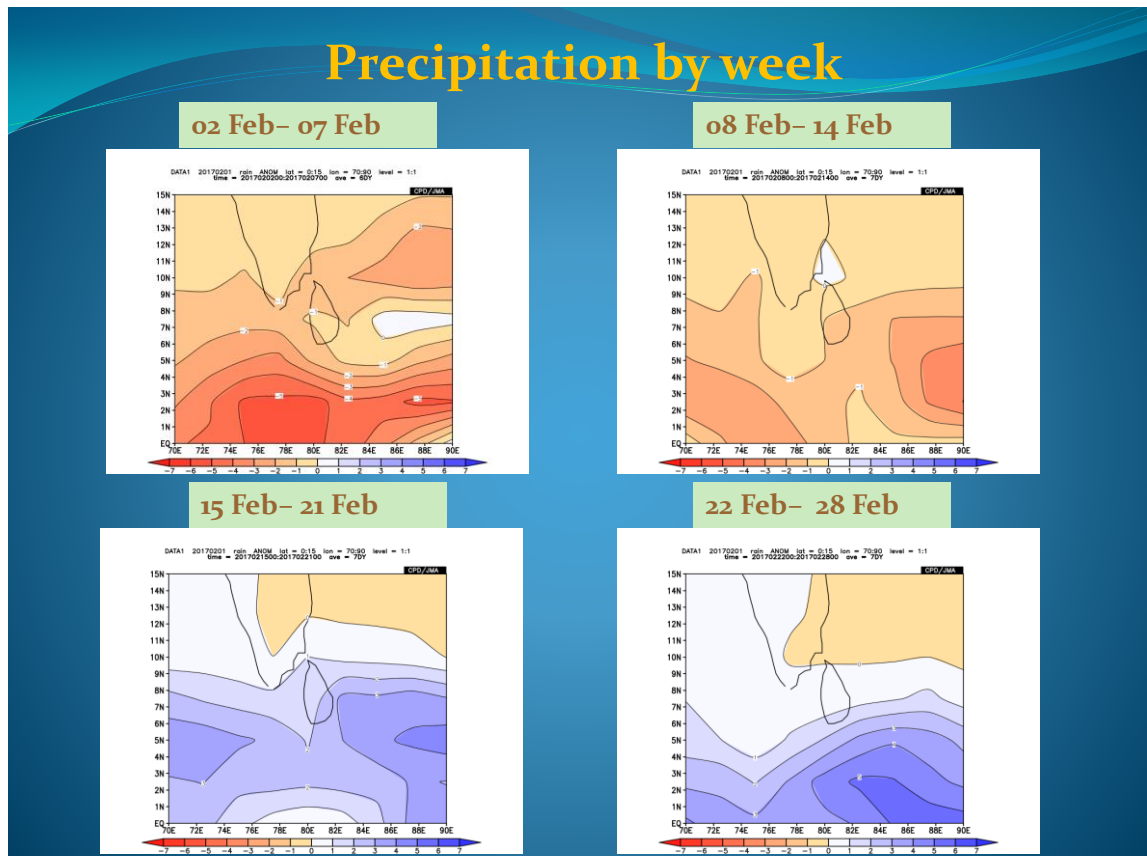
Fig 1. Probabilistic rainfall forecast for February 2017

Fig 2.Weekly Rainfall anomaly forecast for February 2017 (01February- 07February, Upper left), (08February- 14February, Upper right), (15February- 21February, Lower left), and (22February - 28February, Lower right) from JMA model
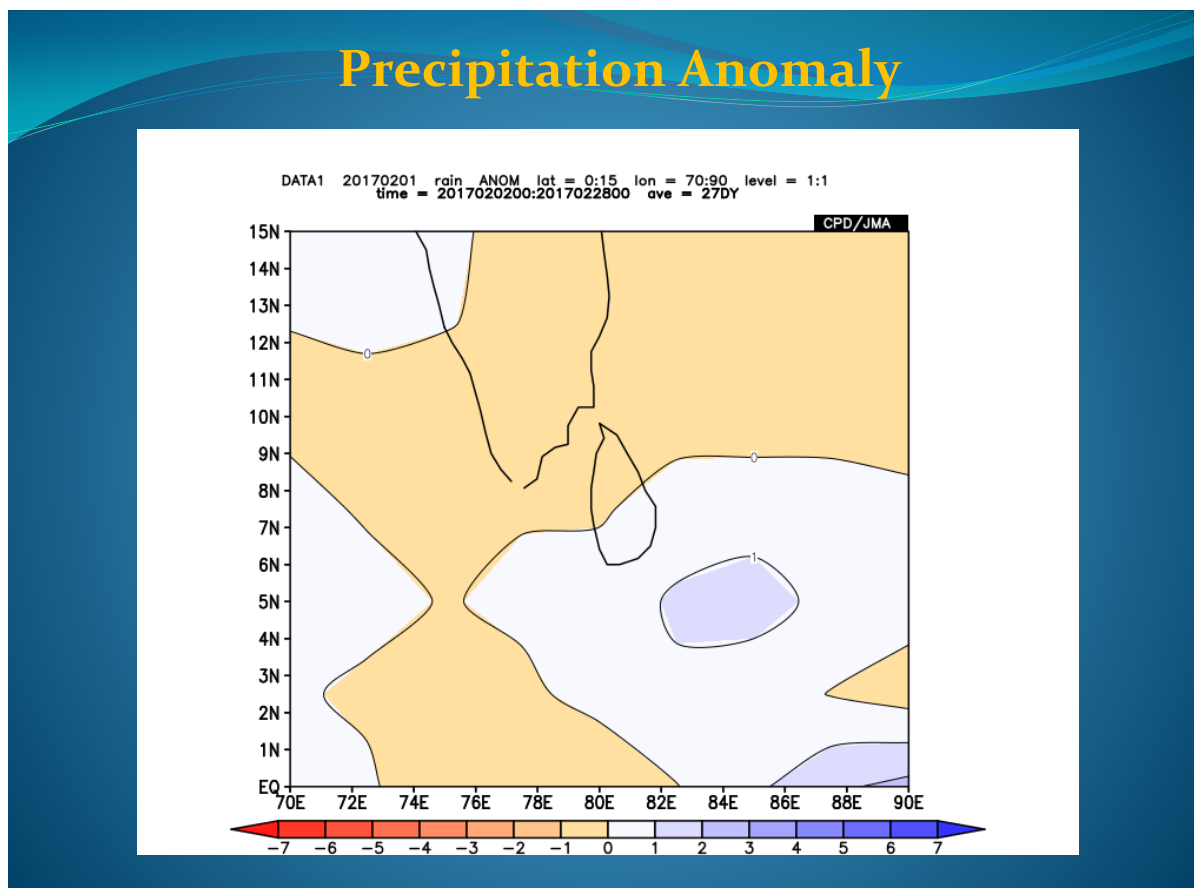

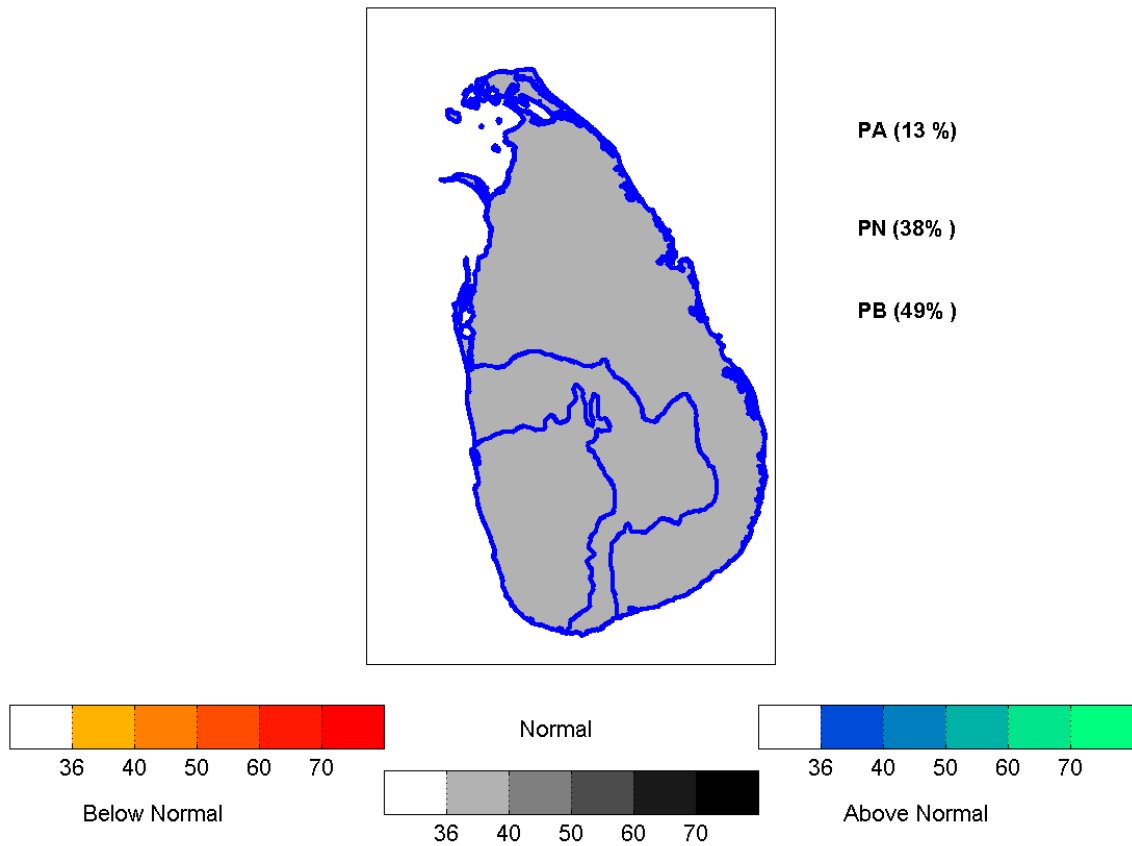Fig 3. Rainfall anomaly forecast for February 2017 (mm/day) from JMA model

Fig 4. Multi-model ensemble probabilistic forecast for February 2017 from RIMES Forecast Customization System (FOCUS).

Below—Normal   Near—Normal   Above—Normal

80 70 60 50 40   40   50 60 70 80   40 50 60 70 80 [%]