

Probabilistic Rainfall Forecast for January 2017

The probabilistic rainfall forecast for January 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 no signal for all districts for the month of January 2017.

Figure 2 represents the weekly rainfall anomaly forecast for January 2017 from Japanese Meteorological Administration (JMA) model. Below normal rainfall anomaly can be expected for the first week and above normal rainfall is predicted for 3rd week of January . There is no signal over Sri Lanka for 2nd and the last week of January 2017. According to the monthly rainfall anomaly forecast for January 2017 from Japanese Meteorological Administration (JMA) model (Fig 3), there is no signal over Sri Lanka for January 2017.

Figure 4 represents the multi-model ensemble probabilistic rainfall forecast for January 2017 from Forecast Customization System (FOCUS) for Sri Lanka developed by Regional Integrated Multi-Hazard Early Warning System RIMES. According to the FOCUS, near normal rainfall can be expected for wet zone and intermediate zone for January 2017 while there is no signal for dry zone.

Considering all global model predictions and prevailing weak La Nina conditions, near normal rainfall can be expected for January 2017 (Fig 5)

Table 1

District	Average rainfall (mm) –(January)	Probability %		
		Below	Normal	Above
Colombo	77.2	30	35	35
Kalutara	122.7	35	30	35
Galle	127.0	35	30	35
Matara	125.2	30	35	35
Hambantota	70.9	35	30	35
Ampara	210.1	35	30	35
Batticaloa	194.3	30	35	35
Trincomalee	127.4	35	30	35
Mullaithivu	77.2	35	30	35
Jaffna	70.7	30	35	35
Killinochchi	76.7	35	30	35
Mannar	53.8	35	30	35
Puttalam	46.9	30	35	35
Gampaha	53.7	35	30	35
Kegalle	77.4	35	30	35
Ratnapura	117.0	30	35	35
Monaragala	129.7	35	30	35
Badulla	232.3	35	30	35
Pollonnaruwa	164.1	30	35	35
Vavuniya	74.2	35	30	35
Anuradapura	84.6	35	30	35
Kurunegala	63.5	30	35	35
Matale	202.0	35	30	35
Kandy	159.8	35	30	35
Nuwaraeliya	138.3	35	35	30

Table 1

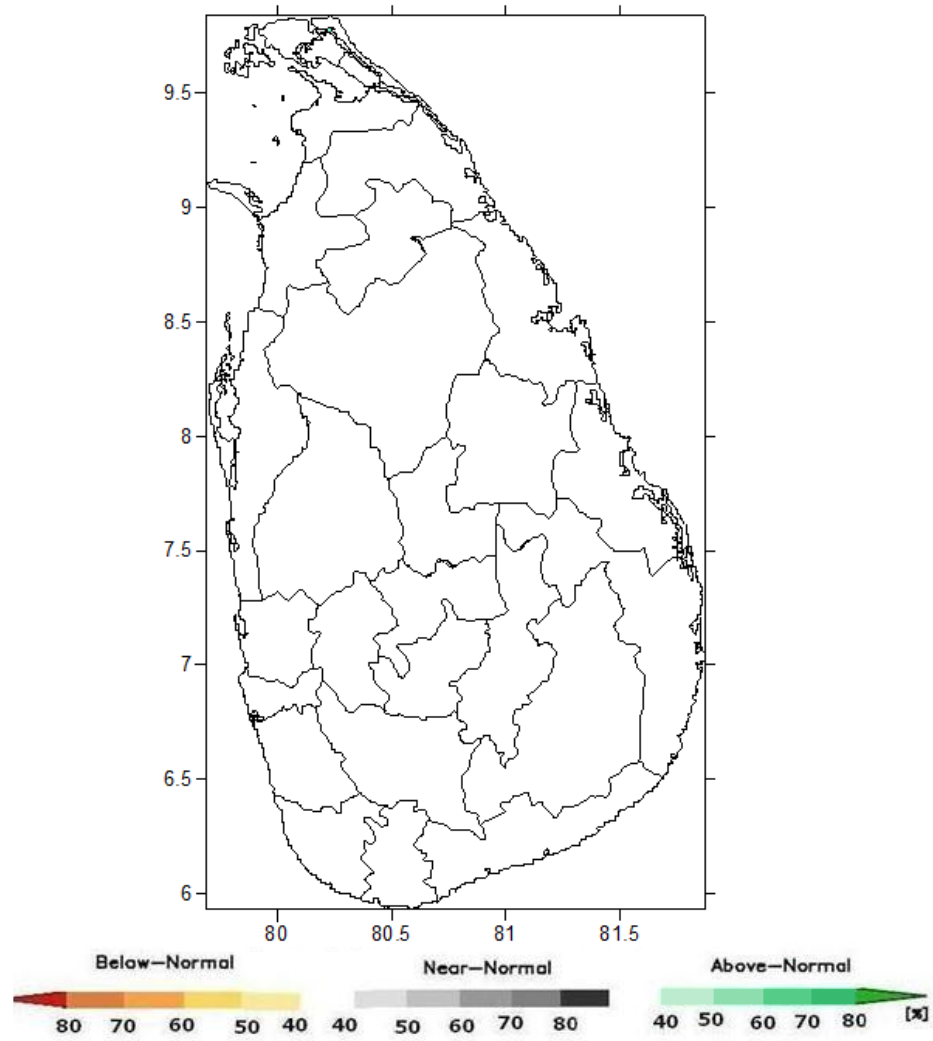
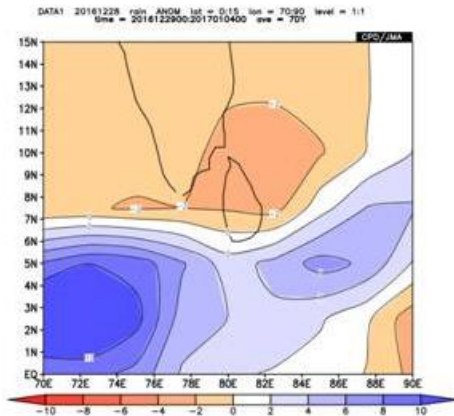


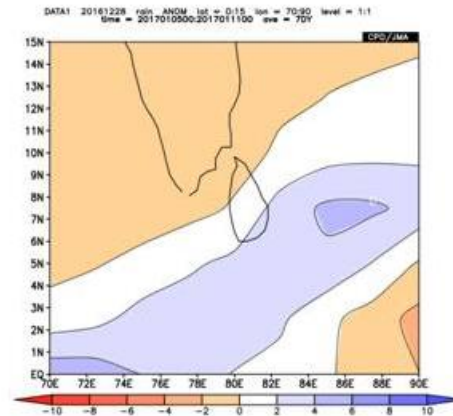
Fig 1. Probabilistic rainfall forecast for January 2017 from CPT

Precipitation by week

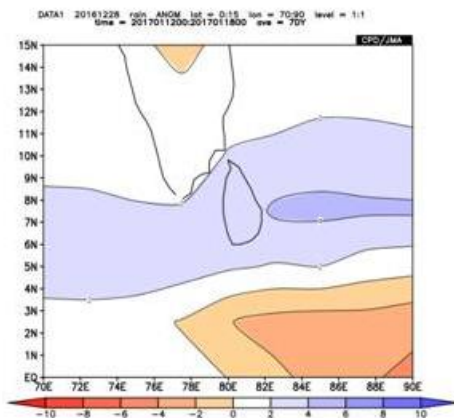
29 Dec – 04 Jan



05 Jan – 11 Jan



12 Jan – 18 Jan



19 Jan – 29 Jan

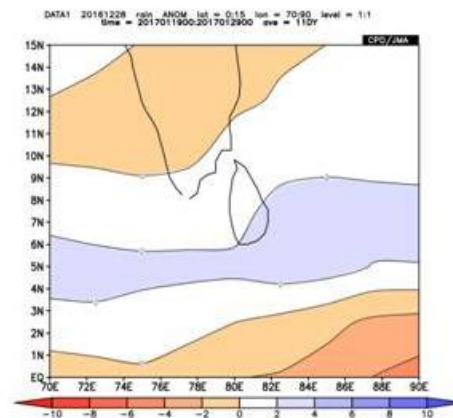


Fig 2. Weekly Rainfall anomaly forecast for January 2016 (03January- 09January, Upper left), (10January- 16January, Upper right), (17January- 23January, Lower left), and (24January - 04January, Lower right) from JMA model

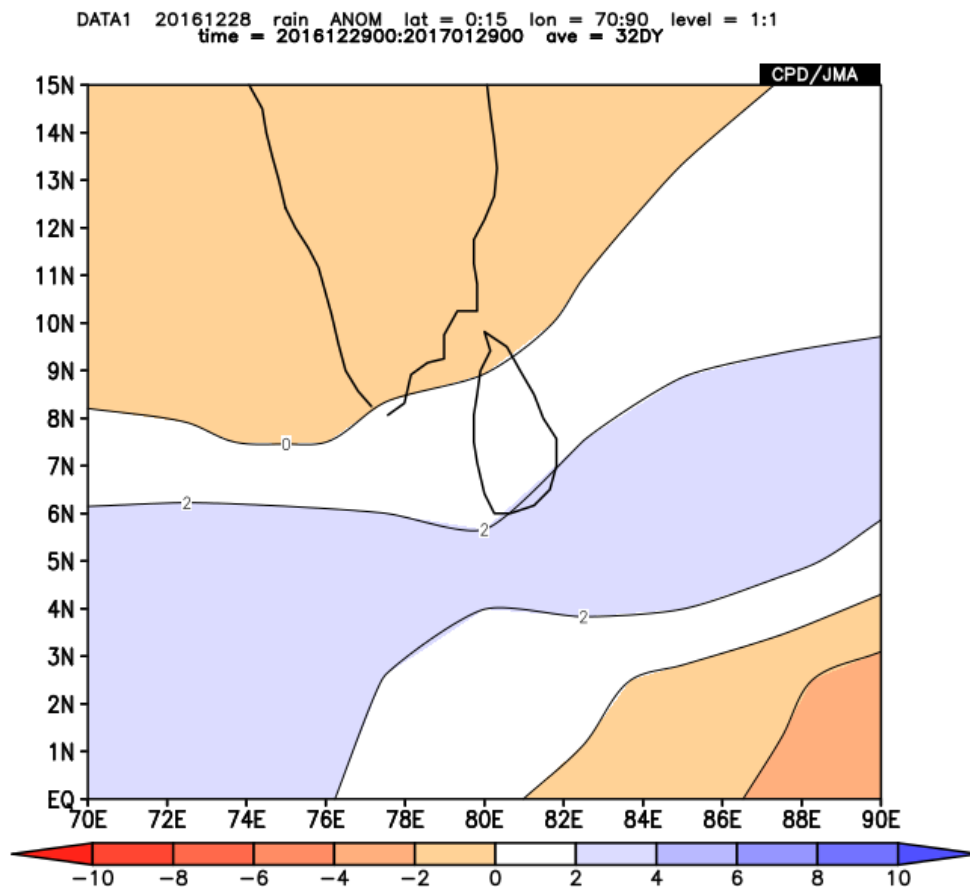


Fig 3. Rainfall anomaly forecast for January 2017 (mm/day) from JMA model

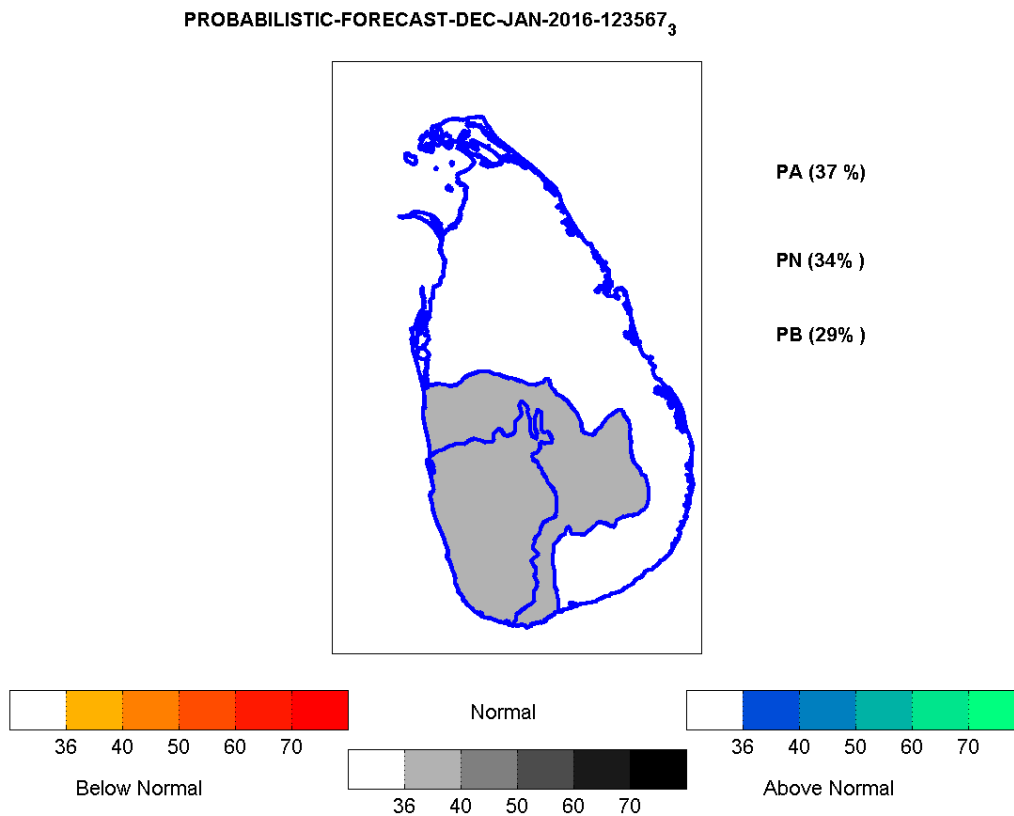


Fig 4. Multi-model ensemble probabilistic forecast for January 2017 from RIMES Forecast Customization System (FOCUS).

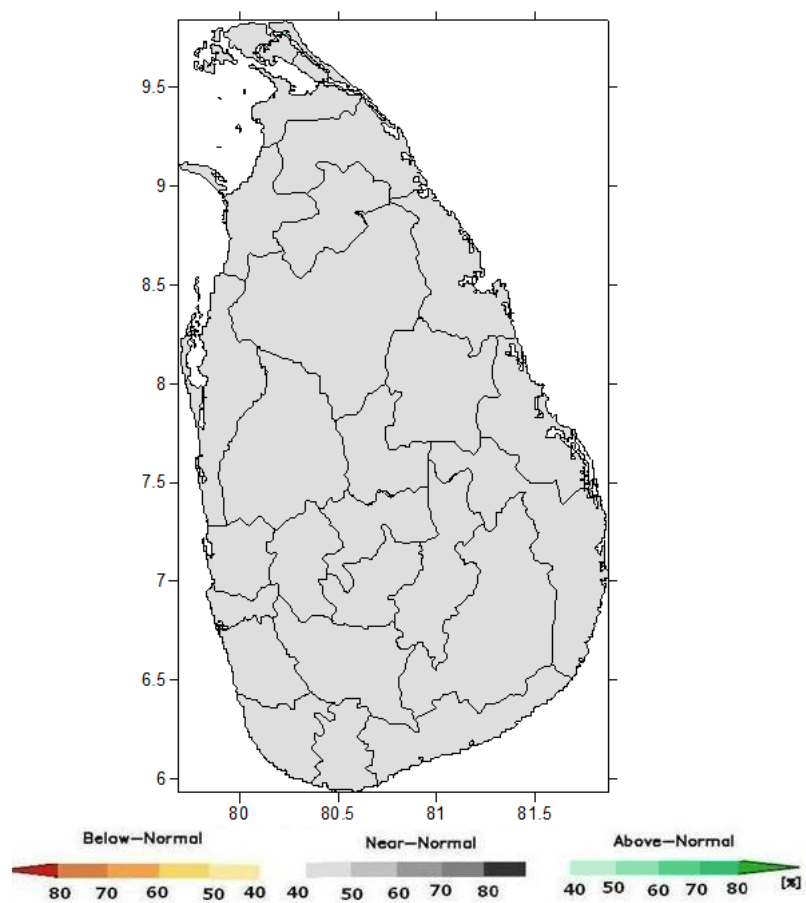


Fig 5. Consensus Probabilistic rainfall forecast for January 2017.