

Probabilistic Rainfall Forecast for August 2017

The probabilistic rainfall forecast for August 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 chance of receiving below average rainfall in Colombo, Kalutara, Galle, Gampaha, Kegalle, Matale, Kandy, Nuwaraeliya, and Trincomalee districts for the month of August 2017. There is no signal for all other districts.

Figure 2 represents the weekly rainfall anomaly forecast for August 2017 from Japanese Meteorological Administration (JMA) model. Above normal rainfall can be expected for all four weeks starting from 01 August to 28 August. According to the monthly rainfall anomaly forecast for August 2017 from Japanese Meteorological Administration (JMA) model (Fig 3), above normal rainfall can be expected for August 2017.

Figure 4 represents the multi-model ensemble probabilistic rainfall forecast for August 2017 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 below normal in wet zone, and intermediate zone and above normal rainfall in dry zone for August 2017.

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

| District | Average rainfall (mm) -(August) | Probability % | | |
|--------------|------------------------------------|---------------|--------|-------|
| | | Below | Normal | Above |
| Colombo | 162.5 | 50 | 25 | 25 |
| Kalutara | 247.8 | 50 | 25 | 25 |
| Galle | 239.8 | 50 | 25 | 25 |
| Matara | 191.6 | 35 | 30 | 35 |
| Hambantota | 49.2 | 25 | 25 | 50 |
| Ampara | 57.3 | 25 | 35 | 40 |
| Batticaloa | 60.5 | 40 | 30 | 30 |
| Trincomalee | 80.7 | 50 | 25 | 25 |
| Mullaithivu | 48.0 | 40 | 30 | 30 |
| Jaffna | 33.3 | 30 | 30 | 40 |
| Killinochchi | 25.9 | 25 | 25 | 50 |
| Mannar | 19.2 | 30 | 30 | 40 |
| Puttalam | 23.1 | 40 | 20 | 40 |
| Gampaha | 129.1 | 50 | 25 | 25 |
| Kegalle | 262.9 | 50 | 25 | 25 |
| Ratnapura | 196.4 | 30 | 30 | 40 |
| Monaragala | 49.9 | 30 | 30 | 40 |
| Badulla | 76.3 | 30 | 30 | 40 |
| Pollonnaruwa | 54.0 | 40 | 30 | 30 |
| Vavuniya | 56.5 | 35 | 35 | 30 |
| Anuradapura | 40.5 | 30 | 30 | 40 |
| Kurunegala | 58.1 | 40 | 30 | 30 |
| Matale | 59.2 | 50 | 25 | 25 |
| Kandy | 154.0 | 50 | 25 | 25 |
| Nuwaraeliya | 234.5 | 50 | 25 | 25 |

Table 1

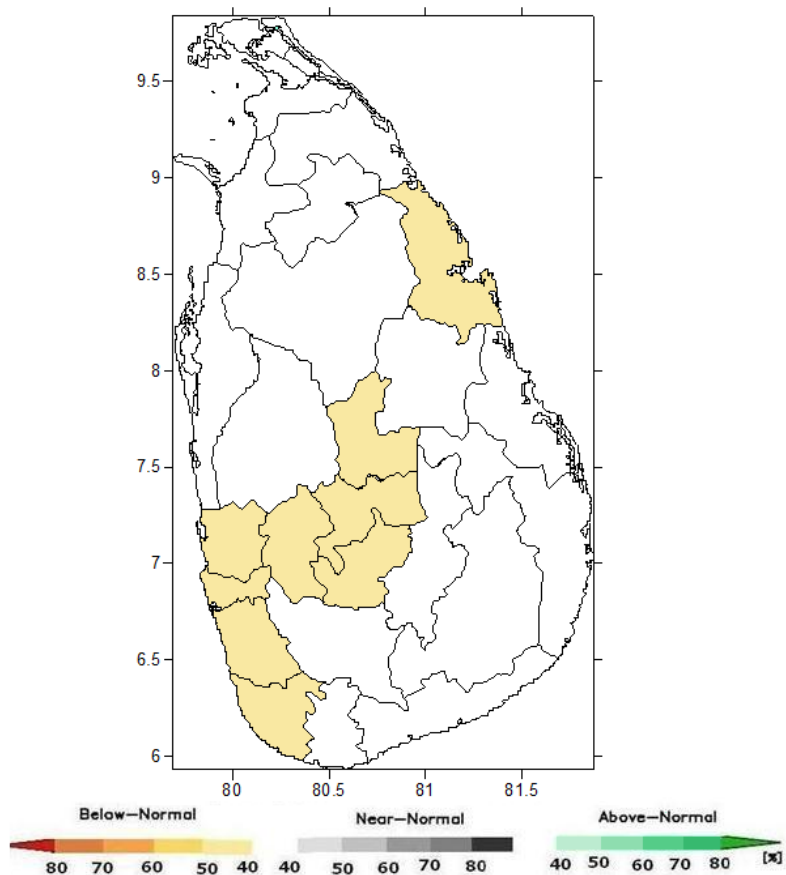


Fig 1. Probabilistic rainfall forecast for August 2017

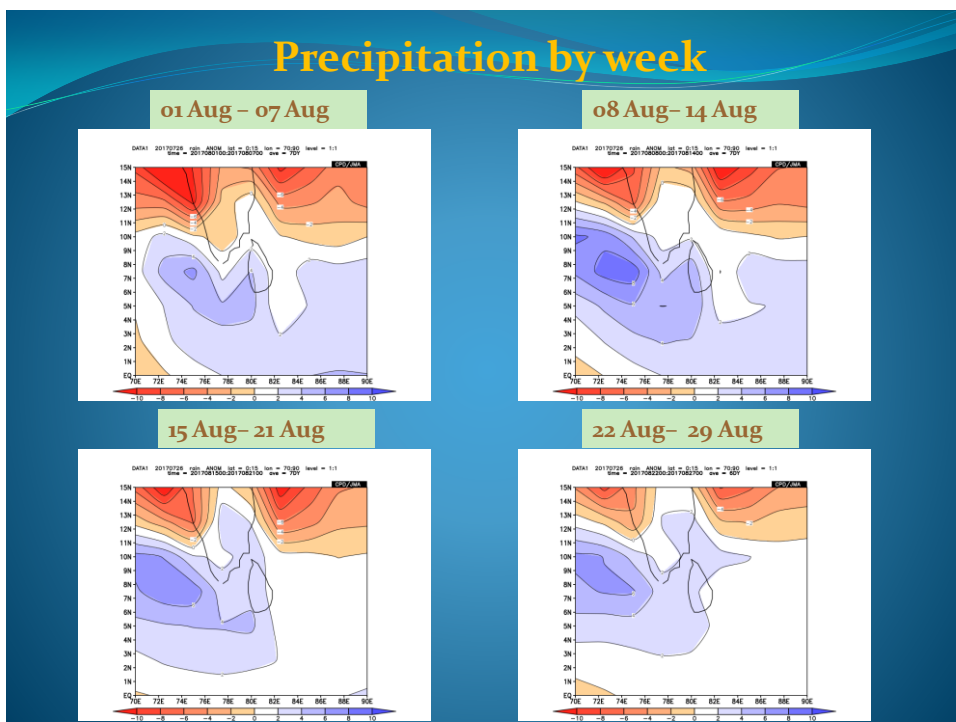


Fig 2. Weekly Rainfall anomaly forecast for August 2017 (01 August- 07 August, Upper left), (08 August- 14 August, Upper right), (15 August- 21 August Lower left) and (22 August- 29 August, Lower right) from JMA model

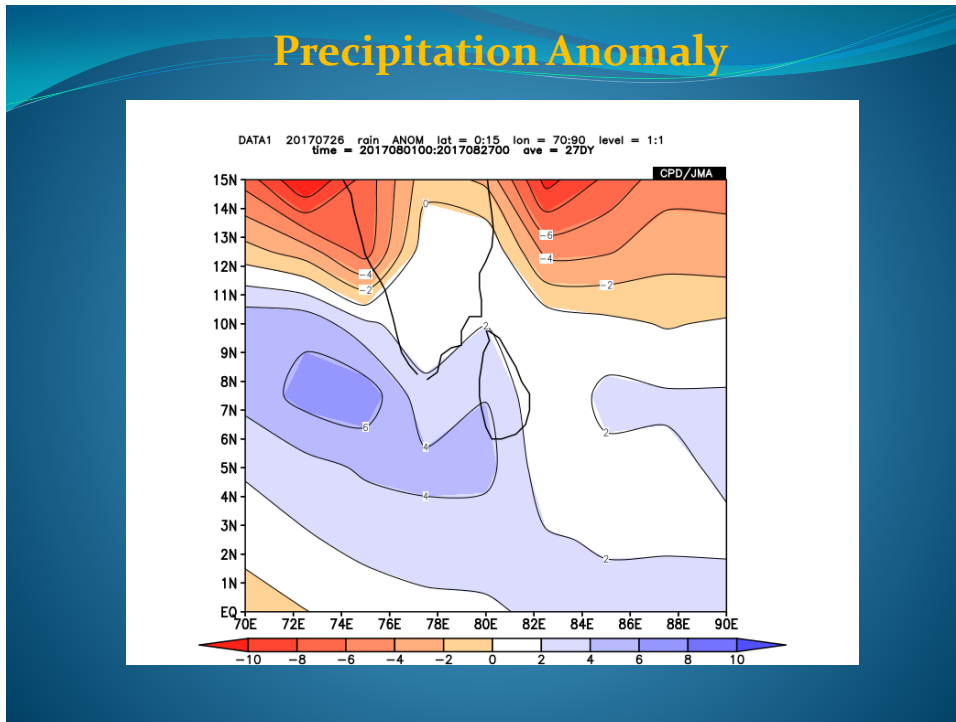


Fig 3. Rainfall anomaly forecast for August 2017 (mm/day) from JMA model

PROBABILISTIC-FORECAST-JUL-AUG-2017-3567₃

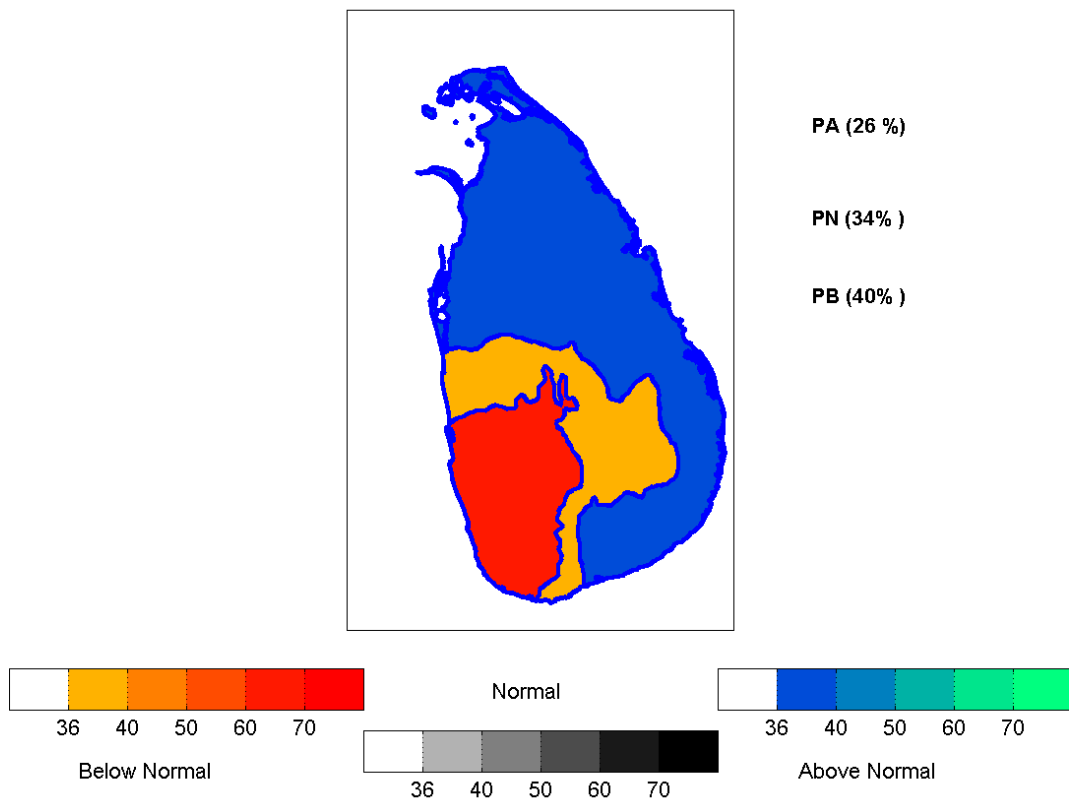


Fig 4. Multi-model ensemble probabilistic forecast for August 2017 from RIMES Forecast Customization System (FOCUS).