Probabilistic Rainfall Forecast for October 2018

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

The district wise average rainfallis 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.

Figure 1 represents the consensus forecast for month of October 2018.Above normal rainfall can be expected in most of districts in Sri Lanka.

Figure 2 represents the weekly rainfall anomaly forecast for October 2018 from Japanese Meteorological Administration (JMA) model. Above normal rainfall can be expected over most parts of the island from first week to the lastweek of October 2018 (Fig 2).According to the monthly rainfall anomaly forecast for October2018 from Japanese Meteorological Administration (JMA) model (Fig. 3), slightly above normal rainfall can be expected over most parts of the island for October 2018.

Figure 4 represents the probabilistic rainfall forecast from Climate Predictability tool(CPT) for October 2018. According to the CPT there is a possibility to receive above normal rainfall for all the districts.

The probabilistic rainfall forecast for October2018 for Sri Lanka as given below.

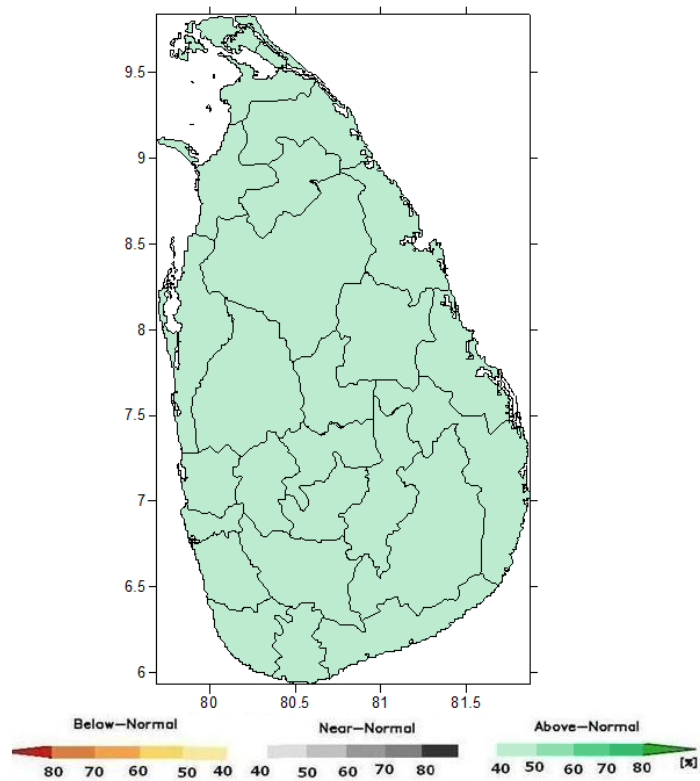| District	Average rainfall (mm) –(October)	Below	Probability % Normal	Above
Colombo	391.7	25	25	50
Kalutara	463.7	25	30	45
Galle	420.3	25	30	45
Matara	328.2	25	25	50
Hambantota	174.3	20	25	55
Ampara	172.3	20	25	55
Batticaloa	182.2	25	25	50
Trincomalee	208.1	20	25	55
Mullaithivu	200.8	20	25	55
Jaffna	227.4	25	25	50
Killinochchi	211.0	25	25	50
Mannar	185.3	20	25	55
Puttalam	231.2	25	25	50
Gampaha	362.5	25	25	50
Kegalle	460.9	25	25	50
Ratnapura	371.5	25	25	50
Monaragala	237.4	20	25	55
Badulla	270.9	20	25	55
Pollonnaruwa	217.7	20	25	55
Vavuniya	228.2	20	25	55
Anuradapura	226.1	20	25	55
Kurunegala	288.6	25	25	50
Matale	260.4	20	25	55
Kandy	309.7	25	25	50
Nuwaraeliya	315.6	25	25	50

Table 1

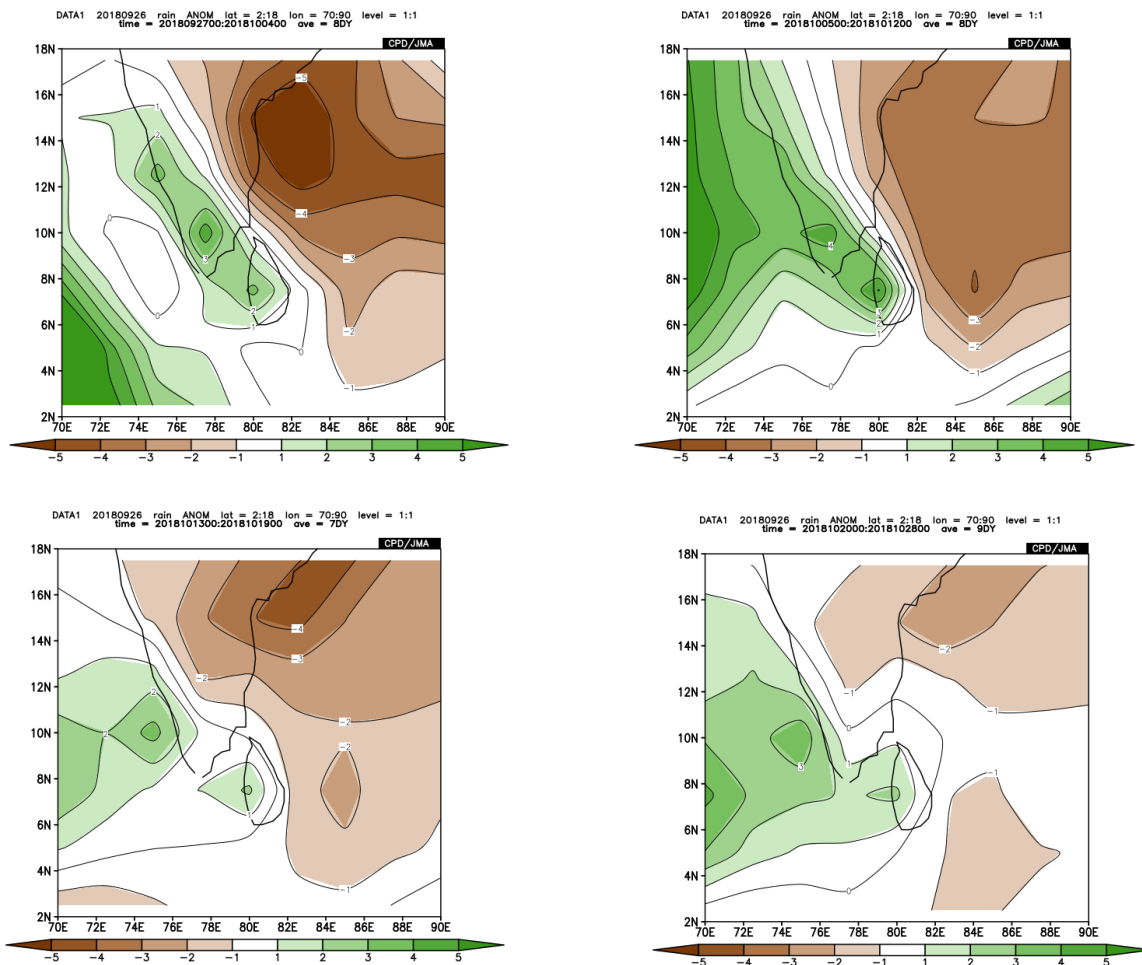Fig 1. Consensus Probabilistic rainfall forecast for October2018

Fig 2:Weekly Rainfall anomaly forecast for October2018 (27 September – 04October, Upper left), (05October –12October, Upper right), (13October – 19October Lower left) and (20October–28October, Lower right)from JMA model.
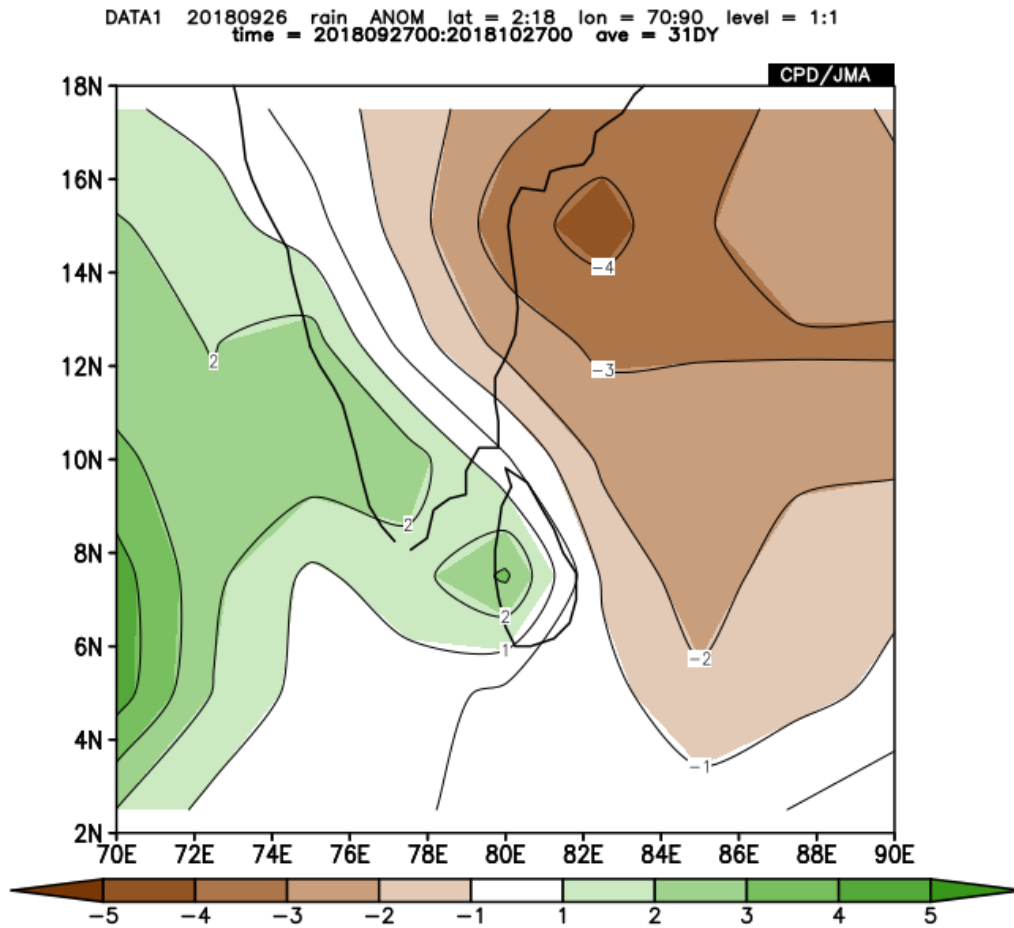
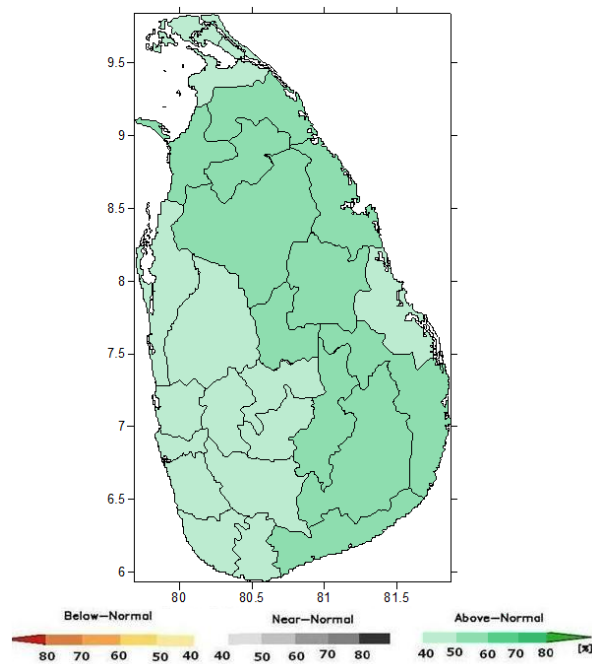Fig 3.Rainfall anomaly forecast for October2018 (mm/day) from JMA model

Fig 4. Probabilistic rainfall forecast using Climate predictability tool for October 2018