

Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department

Press Release: Dated: 07th November, 2024

Subject: Current Weather Status and Extended range Forecast for next two weeks (07th – 20th November 2024)

1. Salient Observed Features for the week ending 06th November 2024:

- **Isolated heavy to Very Heavy Rainfall** observed over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal on 3rd November; South Tamil Nadu in many days in the week. No significant weather observed over the rest of the country.
- During the week, **Average Minimum temperature** was above normal by 2-5°C over North India during this week. **Average Maximum temperature** was above normal by 3-5°C over northwest and by 2-4°C above normal over the most parts of the country, excepts parts of northeast and Peninsular India where it was normal.
- **Daily station observations of the week over the country shows that the** highest maximum temperature of 37.9°C had been recorded at Rajkot (Gujarat) on 04th November 2024 and the lowest minimum temperature of 13.1°C had been recorded at Delhi Ridge (Delhi) on 04th November 2024 over the plains of the country during the week.
- **Analysis of weekly overall rainfall distribution during the week ending on 30th October and Post monsoon Season's Rainfall Scenario (31st October to 06th November 2024):** The country as a whole, the weekly cumulative All India Rainfall (for 31st October to 06th November 2024) in % departure from its long period average (LPA) is -43%. All India Seasonal cumulative rainfall % departure during this year's postmonsoon Season Rainfall (01st – 06th November 2024) is -4%. Details of the rainfall distribution over the four broad geographical regions of India are given in Table 1 and Meteorological sub-division-wise rainfall both for week and season are given in Annexure I & II respectively.

Table 1: Rainfall status (Week and season)

Region	Week			Season		
	31.10.2024 TO 06.11.2024			01.10.2024 TO 06.11.2024		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	7.8	7.9	-1%	144.4	130.0	11%
NORTH WEST INDIA	0.0	2.6	-99%	5.3	24.0	-78%
CENTRAL INDIA	1.5	3.8	-59%	55.1	60.1	-8%
SOUTH PENINSULA	18.5	31.3	-41%	186.5	179.5	4%
COUNTRY AS A WHOLE	5.4	9.5	-43%	79.9	83.6	-4%

2. Large scale features:

- Currently, neutral El Niño-Southern Oscillation (ENSO) conditions are prevailing over the Equatorial Pacific Ocean and neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean. The latest global model forecasts indicate a higher chance of La Niña conditions developing during November-December, 2024 and neutral IOD conditions are likely to continue over the Indian Ocean during next several months.
- Above-average sea surface temperatures (SSTs) are currently seen across most of the Indian Ocean. Currently, neutral Indian Ocean Dipole (IOD) conditions are observed over the Indian Ocean. The latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue for the next several months.
- The Madden Julian Oscillation (MJO) index is currently in phase 8 with amplitude close to 1. It is likely to move across phase 1 with amplitude becoming less than 1 during first half of week 1. Thereafter, it will move westwards across phases 2 & 3 with amplitude remaining less than 1 in the remaining part of the forecast period. Thus, MJO would support enhancement of convective activity and cyclogenesis over the Arabian Sea (AS) from later part of week 1 and over the BoB during week 2.

3. Forecast for next two week

Weather systems & associated Precipitation during Week 1 (07th to 13th November 2024) and Week 2 (14th to 20th November, 2024)

Weather Systems: No cyclogenesis (Formation of depression) is likely during next 2 weeks.

Weather systems & associated Precipitation during Week 1 (07th to 13th November 2024)

- ❖ A **cyclonic circulation** lies over southwest Bay of Bengal in lower tropospheric levels. It is likely to move nearly westwards during first half of the week 1 towards Sri Lanka-Tamil Nadu coasts without any significant intensification
- ❖ A **trough** runs from Gulf of Mannar to eastcentral Bay of Bengal across above cyclonic circulation over southwest Bay of Bengal in lower tropospheric levels.

Rainfall Forecast & Warnings (Annexure III)

- ❖ Light to moderate rainfall at a few places accompanied with isolated thunderstorm and lightning very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 07th -11th November.
- ❖ **Isolated heavy rainfall** very likely over Andaman & Nicobar Islands on 07th; Tamil Nadu, Puducherry & Karaikal during 07th -13th; Kerala & Mahe on 07th, 08th, 12th & 13th November.

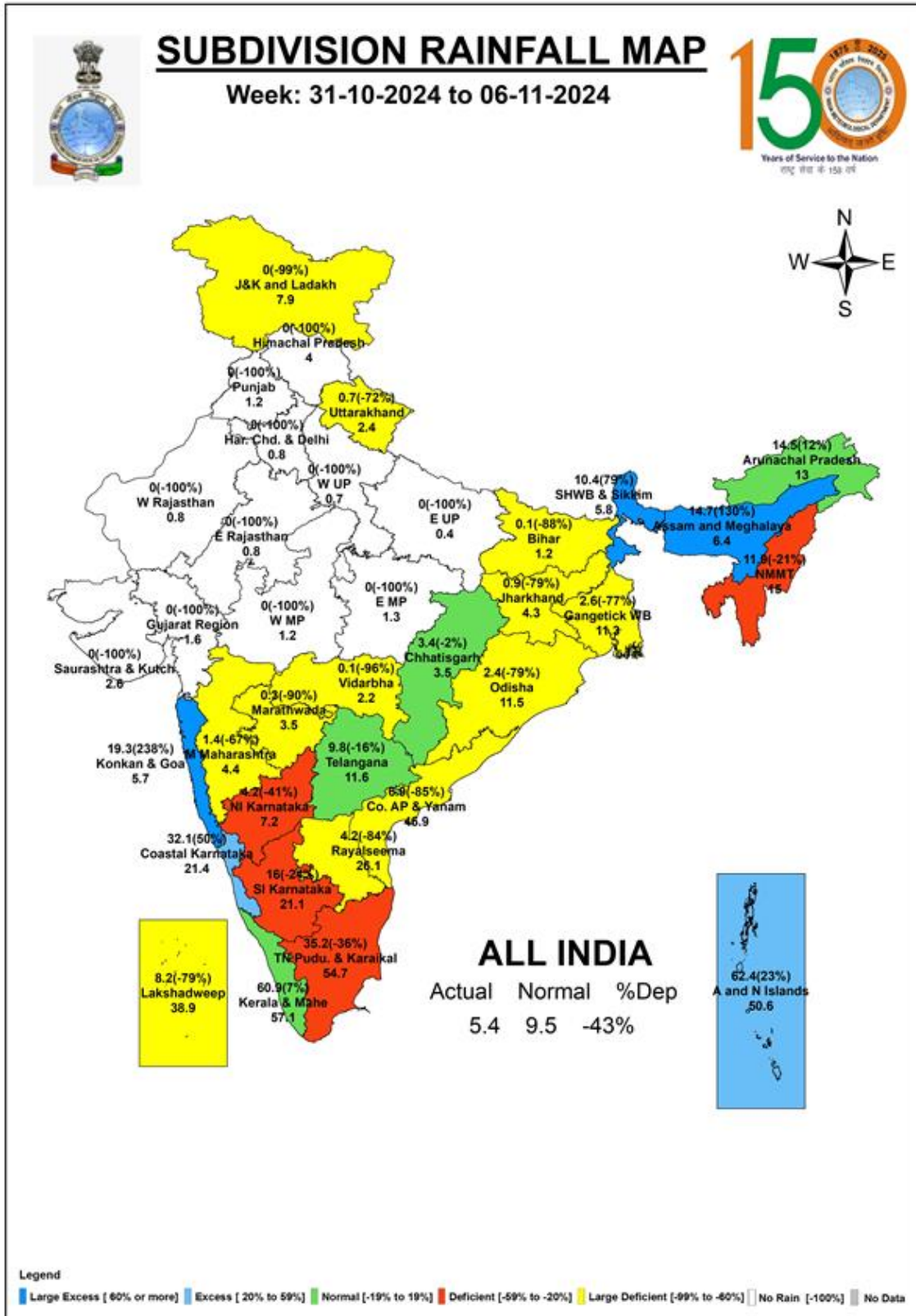
Forecast of temperature (Annexure IV & V)

- ❖ No significant change in Minimum & Maximum temperatures likely over most parts of the country during next one week.
- ❖ **Overall, rainfall is likely to be normal over some parts of South Peninsular India and below normal over remaining parts of the country.**

Rainfall & Temperature for week 2 (14th to 20th November, 2024):

- ❖ A feeble WD is likely impact WHR and adjoining planes with a light isolated rain/ Snow during week 2.
- ❖ Overall, rainfall is likely to be normal to above normal over southeast Peninsular India and Kashmir and normal over rest of the country. (Annexure III)
- ❖ Temperature likely to fall slightly in most parts of India during week 2 (Annexure IV & V).

Legends: Heavy Rain: 64.5 to 115.5 mm Very Heavy Rain: 115.6 to 204.4 mm, Extremely Heavy Rain > 204.4 mm



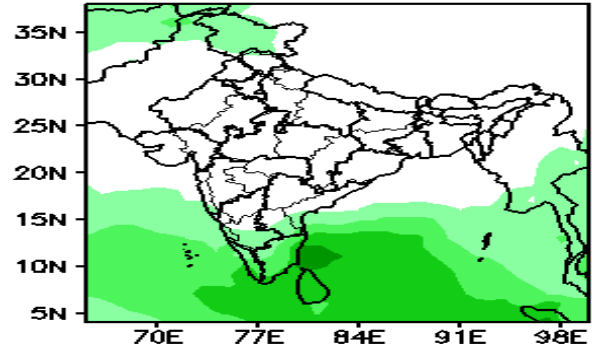
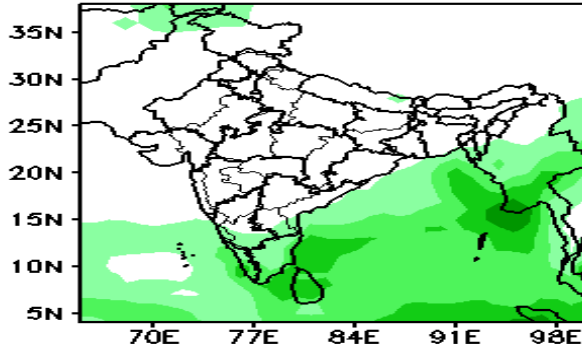


Forecast Rainfall (mm/day)

(00Z=0530 hrs IST)

(Week 1:00Z07Nov-00Z14Nov)

(Week 2:00Z14Nov-00Z21Nov)

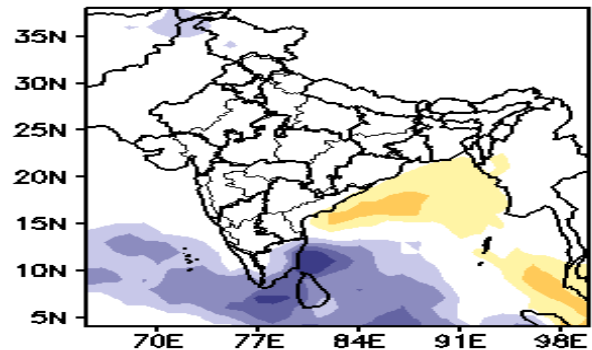
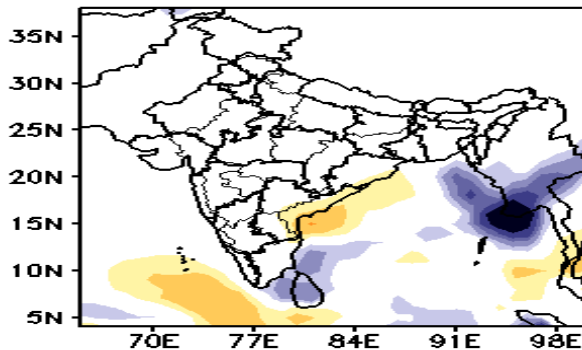


Forecast Rainfall Anomaly (mm/day)

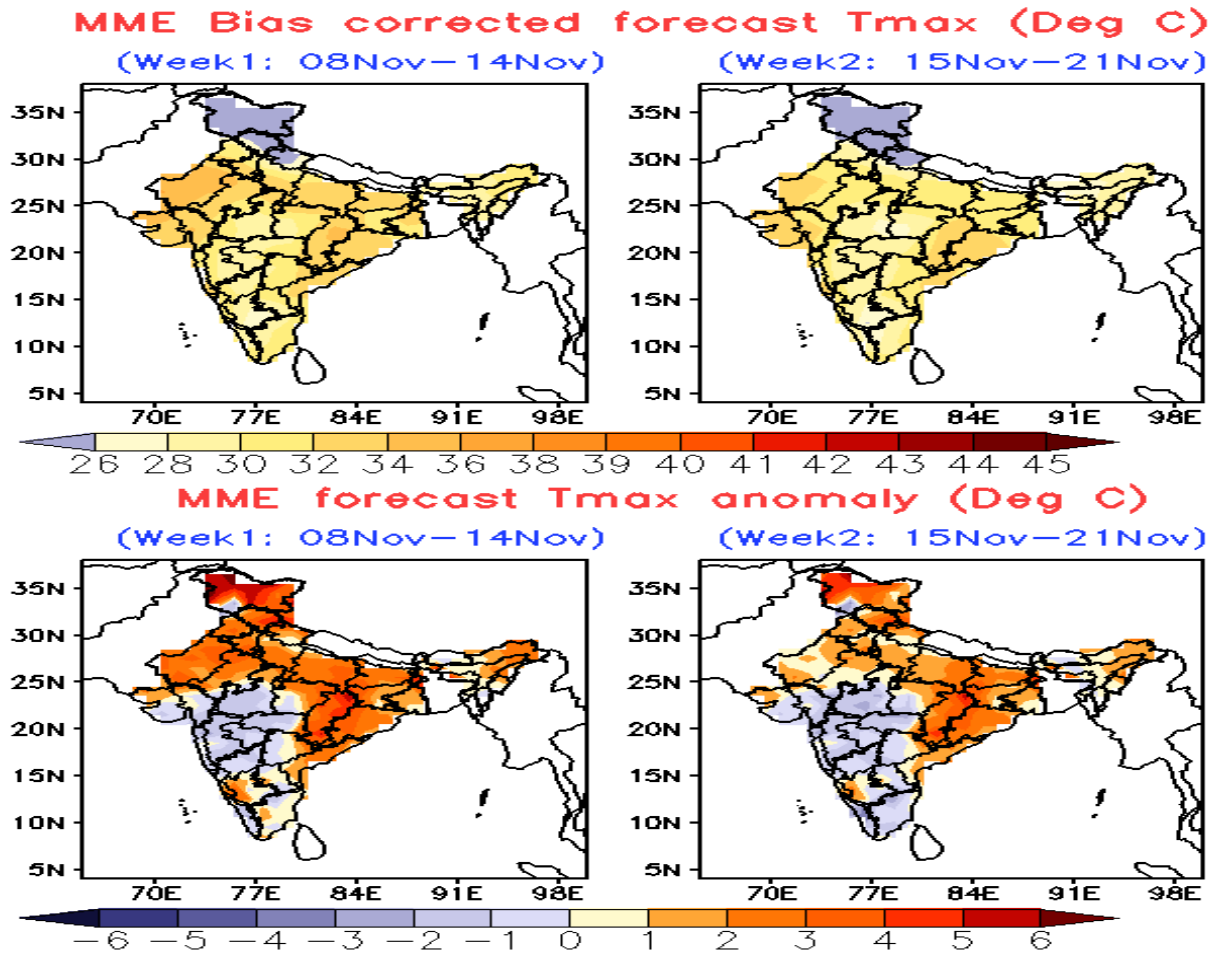
(00Z=0530 hrs IST)

(Week 1:00Z07Nov-00Z14Nov)

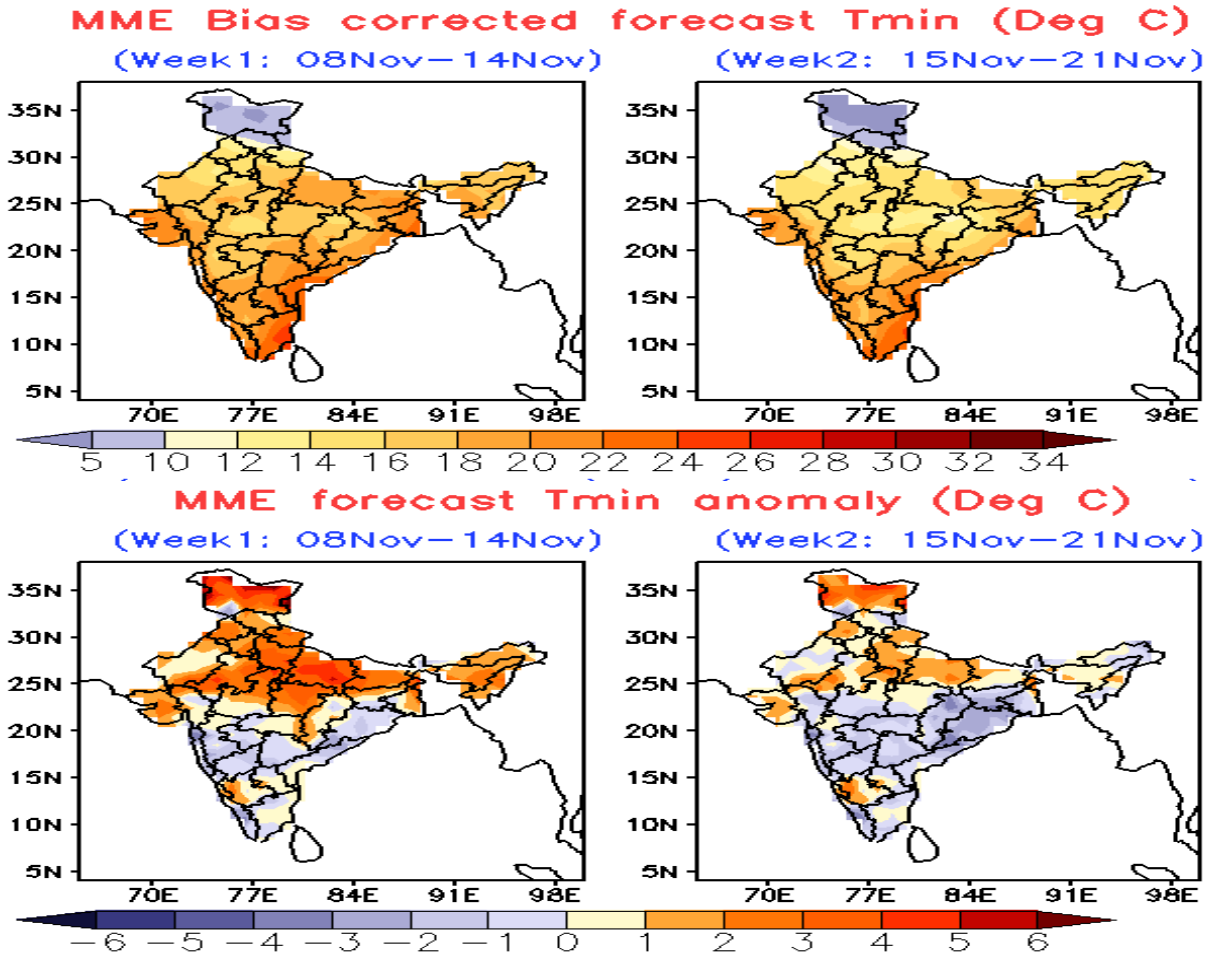
(Week 2:00Z14Nov-00Z21Nov)



Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME



Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast



Extended range forecast of weekly distribution of Minimum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast