

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

Press Release: Dated: 14th November, 2024

Subject: Current Weather Status and Extended range Forecast for next two weeks (14th–27th November 2024)

1. Salient Observed Features for the week ending 13th November 2024:

- A **Low Pressure Area** formed over southwest Bay of Bengal on 11th November; and it moved nearly westwards and lay over southwest Bay of Bengal off north Tamil Nadu & adjoining south Andhra Pradesh coasts, till it's weakening on 13th November. Under the influence of this low pressure system, **Very Heavy Rainfall** observed over Tamil Nadu on 13th November. **Heavy Rainfall** observed over Tamil Nadu, Puducherry & Karaikal during 7th to 9th & 12th November; Kerala & Mahe during 7th to 9th November; Rayalaseema on 8th & 13th November.
- **Temperature Scenario:**
The highest maximum temperature of **39.3°C** had been recorded at **Uttarlai (West Rajasthan)** on **09th November 2024** and the lowest minimum temperature of **11.4°C** had been recorded at **Sidhi (East Madhya Pradesh)** on **13th November 2024** over the plains of the country during the week.
- **Analysis of weekly overall rainfall distribution during the week ending on 13th October and Post monsoon Season's Rainfall Scenario (01st October to 13th November 2024):** The country as a whole, the weekly cumulative All India Rainfall (for 07th to 13th November 2024) in % departure from its long period average (LPA) is -70%. All India Seasonal cumulative rainfall % departure during this year's post-monsoon Season Rainfall (01st October – 13th November 2024) is -10%. 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		
	07.11.2024 TO 13.11.2024			01.10.2024 TO 13.11.2024		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
East & Northeast India	1.3	6.7	-80%	145.8	136.7	7%
North West India	1.5	2.6	-41%	6.8	26.6	-74%
Central India	0.0	3.8	-99%	55.1	63.9	-14%
South Peninsula	8.0	22.0	-64%	194.8	201.5	-3%
Country As A Whole	2.3	7.5	-70%	82.2	91.1	-10%

2. Large scale features:

- Currently, neutral El Niño-Southern Oscillation (ENSO) conditions are observed over the equatorial Pacific. The probability forecast indicates a highest probability of La Niña conditions during the NDJ and DJF seasons.
- 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 propagating in Phase 2 with an amplitude < 1. It is likely to continue to move in phase 2 during the remaining days of week 1 and initial days of week 2 with amplitude < 1. Thereafter, it is likely to migrate to phase 3 with amplitude < 1 by the latter part of week 2.

3. Forecast for next two week

Weather systems & associated Precipitation during Week 1 (14 to 20 November, 2024) and Week 2 (21 to 27 November, 2024)

Weather systems & associated Precipitation during Week 1 (14 to 20 November, 2024):

Weather Systems:

- ❖ A cyclonic circulation lies over south Tamil Nadu & neighbourhood in lower tropospheric levels.
- ❖ A Western Disturbance seen as a cyclonic circulation over north Afghanistan and adjoining Pakistan in lower tropospheric levels with a trough aloft in middle tropospheric westerlies runs roughly along Long. 65°E to the north of Lat. 30°N.
- ❖ Jet Stream Winds of the order upto 120 knots at 12.6 km above mean sea level are prevailing over Northwest India.

Forecast & Warnings (upto 7 days):

- ❖ Light to moderate rainfall at a few places accompanied with isolated thunderstorm and lightning very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Andhra Pradesh during 14th-18th November, 2024.
- ❖ **Isolated heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal & Kerala & Mahe during 14th-15th; Coastal Andhra Pradesh on 14th; South Interior Karnataka on 14th & 15th November, 2024.
- ❖ **Overall, rainfall is likely to be normal to above normal over most parts of South Peninsular India and over Western Himalayan Region during the week.**

Precipitation for week 2 (21 to 27 November, 2024):

- ❖ No active western disturbance is likely to affect northwest India during the week.
- ❖ No significant easterly wave likely to affect South Peninsular India during the week
- ❖ Light to moderate isolated/scattered rainfall activity likely over south Peninsular India during the many days of the week.

- ❖ Overall, rainfall is likely to be below normal over all the homogenous of India (**Annexure III**).

Minimum temperature and Fog forecast & warning for Week 1 (14 to 20 November, 2024) and Week 2 (21 to 27 November, 2024)

Minimum temperature and Fog forecast & warning for Week 1 (14 to 20 November, 2024):

Temperature Conditions during past 24 hours till 0830 hours IST of today, 14 November, 2024:

No significant change in minimum temperature observed over most parts of the country during past 24 hours. Minimum temperatures are **markedly above normal by 5°C or more** at isolated places over Punjab; **appreciably above normal by 3°C - 4°C** at isolated places over Rajasthan, Uttar Pradesh, Haryana-Chandigarh-Delhi, Gujarat state, Bihar, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Telangana, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Gangetic West Bengal; **above normal by 2°C - 3°C** at many places over Coastal Andhra Pradesh & Yanam; at isolated places over Madhya Pradesh, Interior Karnataka, Assam & Meghalaya. Nagaland, Manipur, Mizoram & Tripura. These are **below normal by 2°C - 3°C** at isolated places over Vidarbha and near normal over rest parts of the country. Today, **the lowest minimum temperature of 11.2°C** is reported at **Ridge (Delhi)** over the plains of the country.

Forecast of temperature:

- ❖ Gradual fall in minimum temperatures by 2-3°C very likely over northwest India during next one week.
- ❖ No significant change in minimum temperatures over central India during next one week.
- ❖ Gradual fall in minimum temperatures by 2-4°C very likely over East India during next one week.

Dense fog Warnings:

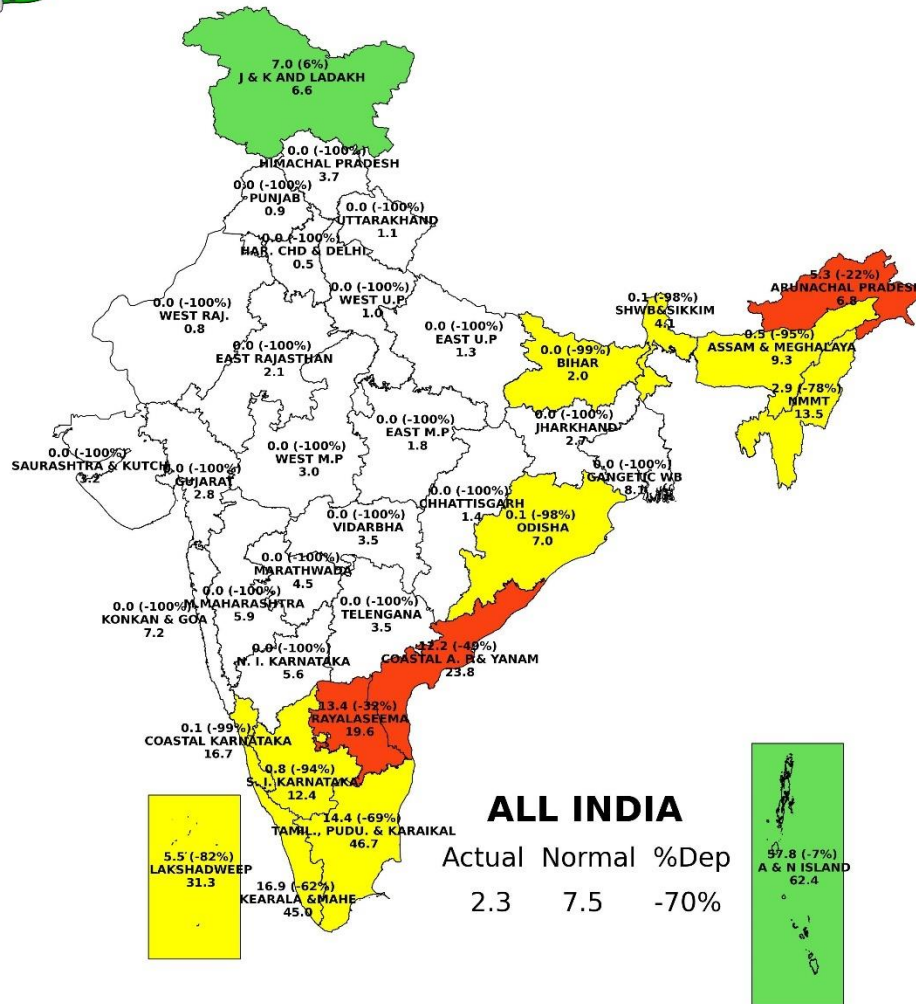
Dense to very dense fog conditions very likely to prevail in night/early morning hours in isolated pockets of Punjab and Haryana during 1st half of the week; over Uttar Pradesh till 15th morning hours and Dense fog for subsequent for 2 days, West Rajasthan till 17th morning hours; **Dense fog conditions** very likely to prevail in night/early morning hours in isolated pockets over Himachal Pradesh till 19th morning hours; Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Bihar and Jharkhand till 17th November, 2024.

Minimum temperature forecast for Week 2 (21 to 27 November, 2024):

- ❖ Minimum temperatures are likely to be near normal over most parts of northwest & northeast India: below normal by 1-2°C over central parts of the country and adjoining South Peninsular India (**Annexure IV**).



भारत मौसम विज्ञान विभाग
India Meteorological Department
जल मौसम विज्ञान प्रभाग, नई दिल्ली
Hydromet Division, New Delhi
SUBDIVISION RAINFALL MAP
Week: 07-11-2024 to 13-11-2024

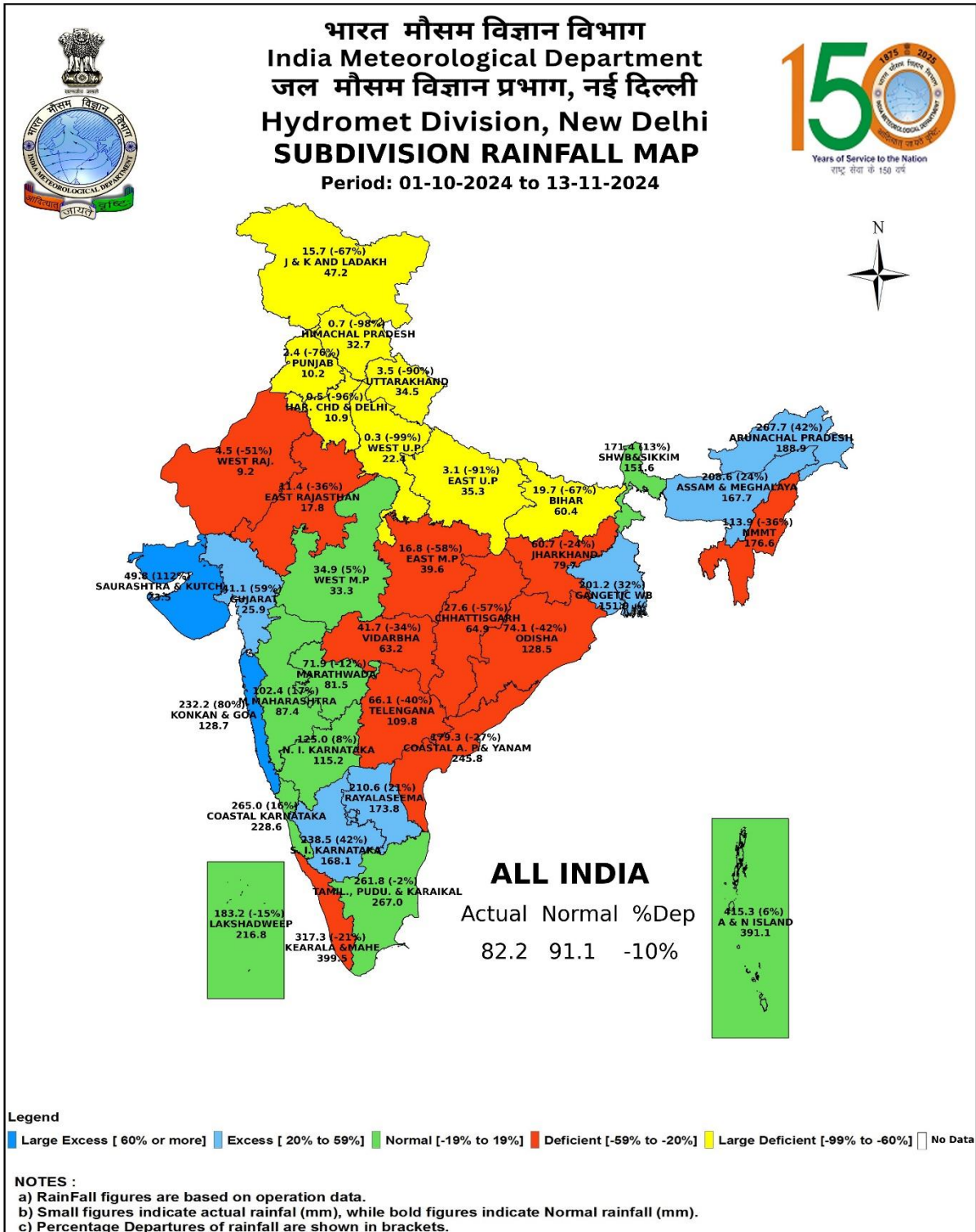


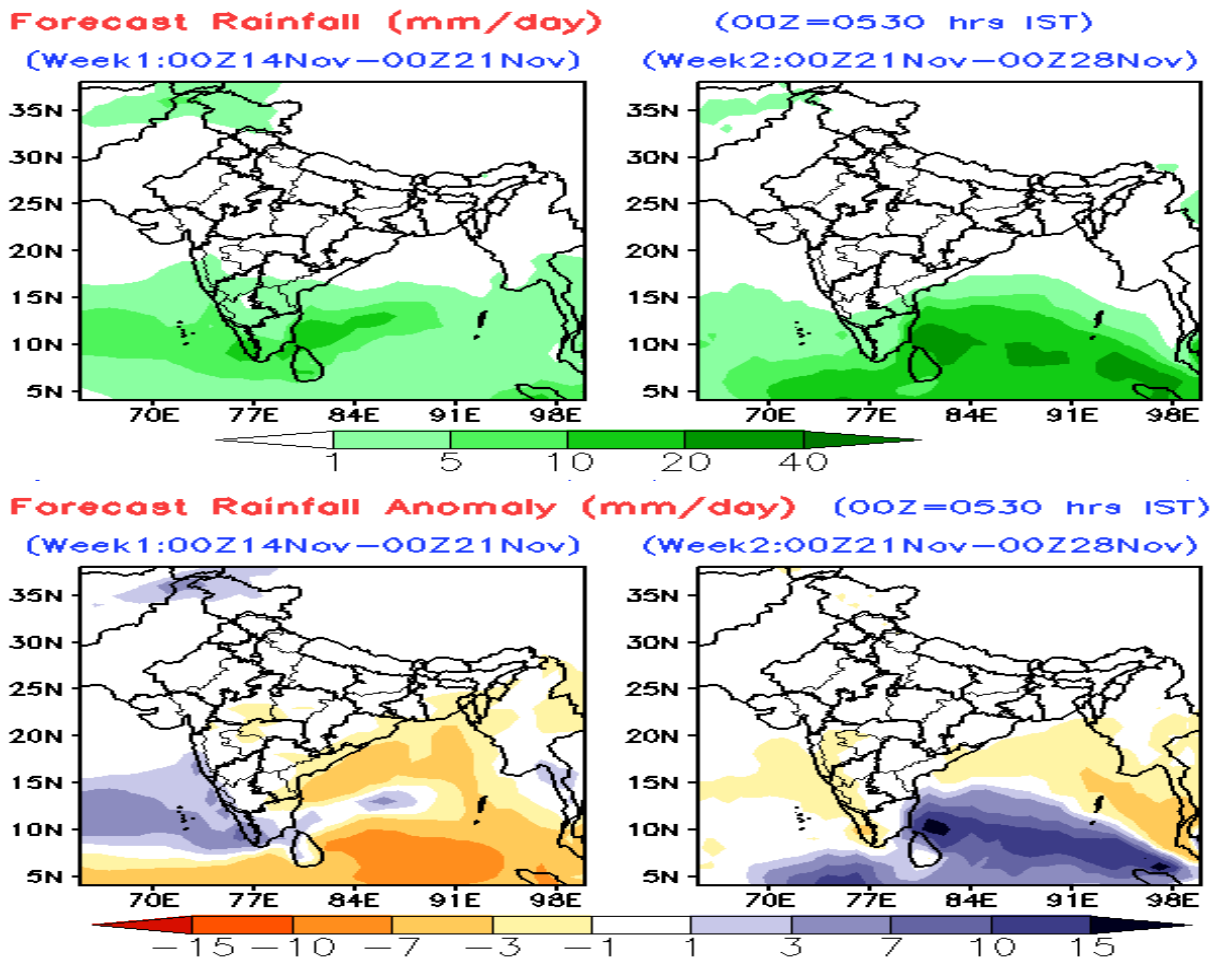
Legend

■ Large Excess [60% or more]
 ■ Excess [20% to 59%]
 ■ Normal [-19% to 19%]
 ■ Deficient [-59% to -20%]
 ■ Large Deficient [-99% to -60%]
 No Data

NOTES :

- a) RainFall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.



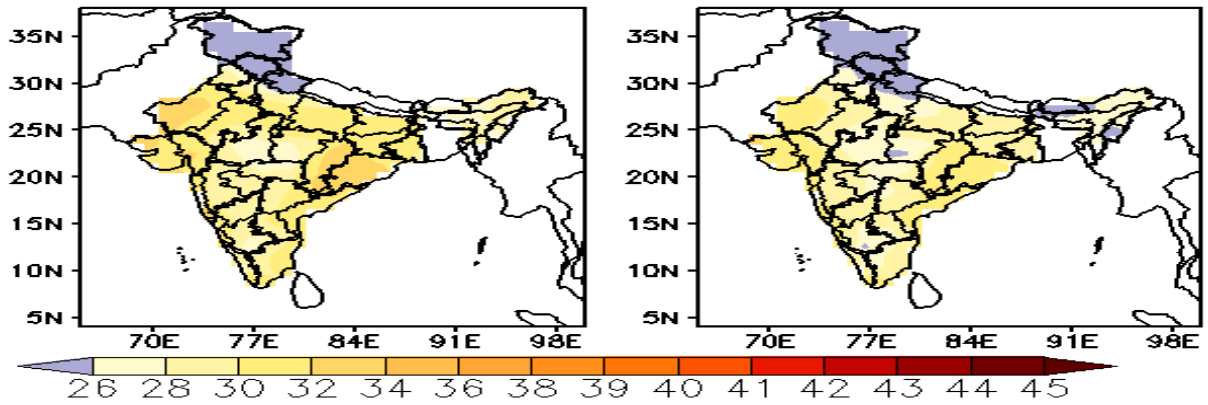


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

MME Bias corrected forecast Tmax (Deg C)

(Week1: 15Nov-21Nov)

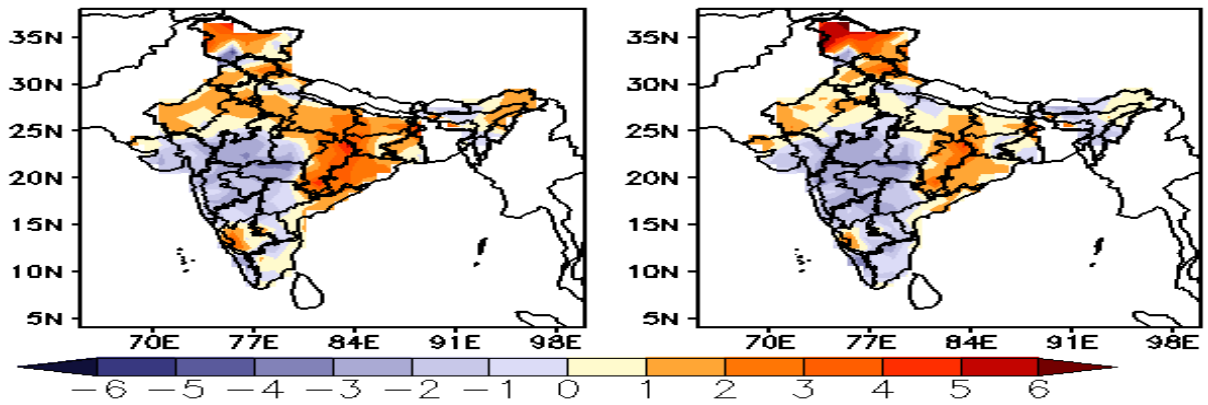
(Week2: 22Nov-28Nov)



MME forecast Tmax anomaly (Deg C)

(Week1: 15Nov-21Nov)

(Week2: 22Nov-28Nov)

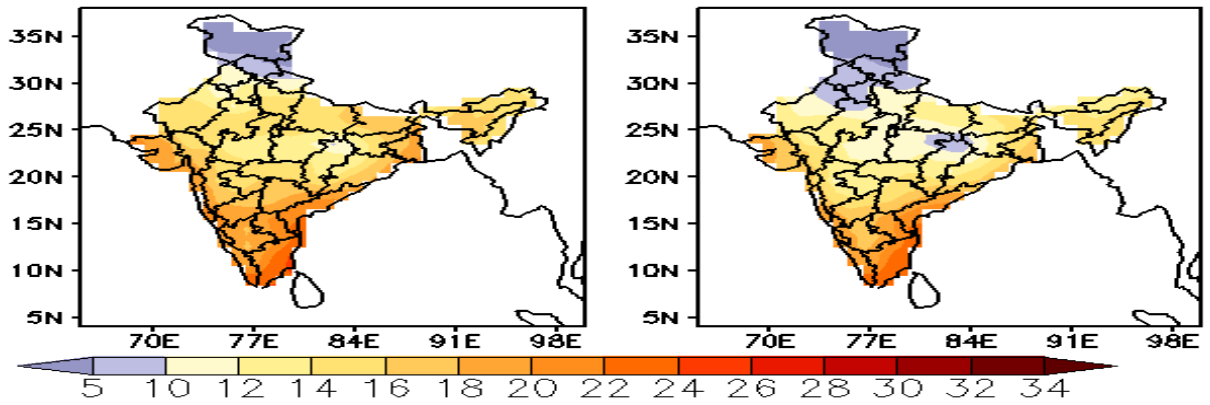


Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

MME Bias corrected forecast Tmin (Deg C)

(Week1: 15Nov–21Nov)

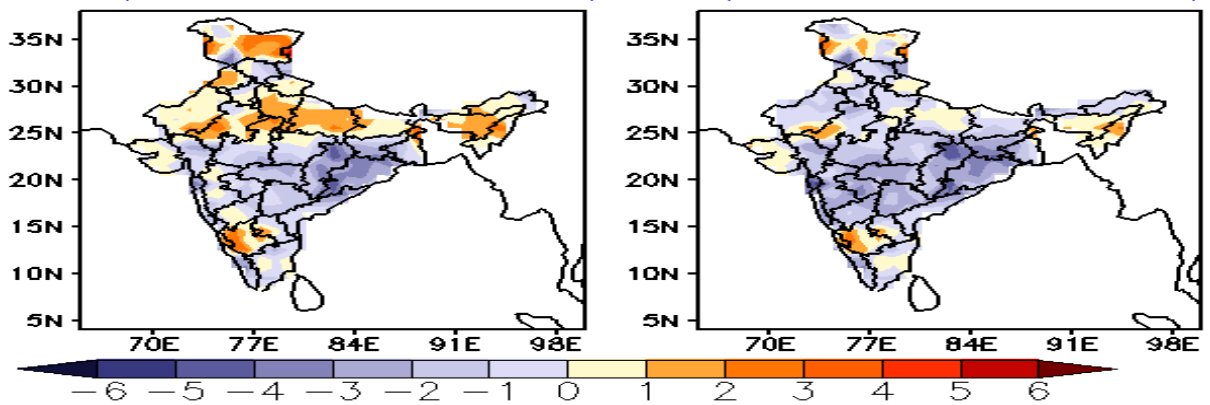
(Week2: 22Nov–28Nov)



MME forecast Tmin anomaly (Deg C)

(Week1: 15Nov–21Nov)

(Week2: 22Nov–28Nov)



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