



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

Press: Dated: 02 Nov, 2023

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(02-15 Nov 2023)**

1. Salient Observed Features for week ending 02 Nov 2023

- No significant weather was observed over most parts of India during the week except occurrences of Light to moderate rainfall at many places over extreme southern parts of peninsular India and Andaman Nicobar Islands during most dates in the week.
- Isolated heavy rainfall was also observed over extreme southern parts of peninsular India for 3 days mainly during 2nd half of the week. This rainfall activity over Peninsular India was mainly due to strong north-easterly/easterly winds from Bay of Bengal to over South Peninsular India.
- **Analysis of Weekly overall Rainfall distribution during the week ending on 01 Nov 2023 and monsoon Season's Rainfall Scenario (1 Oct-01 Nov 2023):** It shows for the country as a whole, the weekly cumulative All India Rainfall in % departure from its long period average (LPA) till week ending on 1 Nov 2023 was -74%, over south Peninsula, it was -66%, central India as -97% while over northwest India had -87% and east & northeast India had got -74%. All India Seasonal cumulative rainfall % departure during this year's **Post monsoon Season's Rainfall** during **1 Oct to 01 Nov 2023** is -33% and over northwest India, it is +44%. 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 Annex I and II respectively.

Table 1: Rainfall status (Week and season)

Region	WEEK			SEASON		
	26.10.2023 TO 01.11.2023			01.10.2023 TO 01.11.2023		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	2.7	10.5	-74%	134.4	124.1	+8%
NORTH-WEST INDIA	0	1.5	-98%	31.2	21.7	+44%
CENTRAL INDIA	0.1	4.9	-97%	22.9	57.6	-60%
SOUTH PENINSULA	10.9	31.7	-66%	63.9	157.3	-59%
Country as a whole	2.6	10	-74%	51.3	76.8	-33%

2. Large scale features

- Currently, the Sea Surface Temperatures (SSTs) and the atmospheric conditions over the Equatorial Pacific Ocean indicate moderate El Niño conditions. The latest forecasts from MMCFS and other global models suggest that these El Niño conditions are likely to continue during the upcoming season. In addition to ENSO conditions over the Pacific, other factors such as the Indian Ocean Sea Surface Temperatures (SSTs) also influence Indian climate. Currently, positive Indian Ocean Dipole (IOD) conditions are prevailing over the Equatorial Indian Ocean. The latest MMCFS forecast indicates that the positive IOD conditions are likely to weaken during the upcoming months.
- Currently MJO lay in Phase 2 and Most of the models are indicating that MJO will retreat back to phase 6 across phase 1, 8 and 7 with amplitude < 1 during week 1. Then, it is likely to move eastwards in the beginning of week 2 from phase 6 to Phase 7 and then to phase 8 with amplitude near 1 till end of the week 2.

3. Forecast for next two week

Weather systems & associated Precipitation during Week 1 (02 to 08 November, 2023) and Week 2 (09 to 15 November, 2023)

Weather systems & associated Precipitation during Week 1 (02 to 08 November, 2023)

- ❖ Under the influence of strong Easterly/Northeasterly winds from the Bay of Bengal to Southeast Peninsular India and a trough of low in easterlies over Southwest & adjoining Westcentral Bay of Bengal in lower tropospheric levels:
 - ✓ Light/moderate scattered to fairly widespread rainfall very likely over south Peninsular India during the week.
 - ✓ Isolated **heavy rainfall** very likely over Tamil Nadu-Puducherry-Karaikal and Kerala-Mahe during 02nd to 07th and over South Interior Karnataka during 03rd to 05th November.
 - ✓ Isolated **Very heavy rainfall** very likely over Tamil Nadu on 04th and over Kerala on 03rd & 04th November.
- ❖ Under the influence of feeble Western Disturbance; light rainfall/snowfall at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 02nd & 03rd and over Uttarakhand on 03rd November. Thereafter, a fresh **Western Disturbance** is likely to affect Western Himalayan Region from the night of 07th November, 2023 and very likely to cause light isolated rainfall/snowfall over Western Himalayan Region on 7th & 8th November, 2023.
- ❖ Light/moderate scattered to fairly widespread rainfall very likely over Andaman & Nicobar Islands during the week.
- ❖ Light isolated rainfall is also likely over east & northeast India during 1st half of the week.
- ❖ **No significant weather likely over rest parts of the country.**

Rainfall for week 2 (09 to 15 November, 2023):

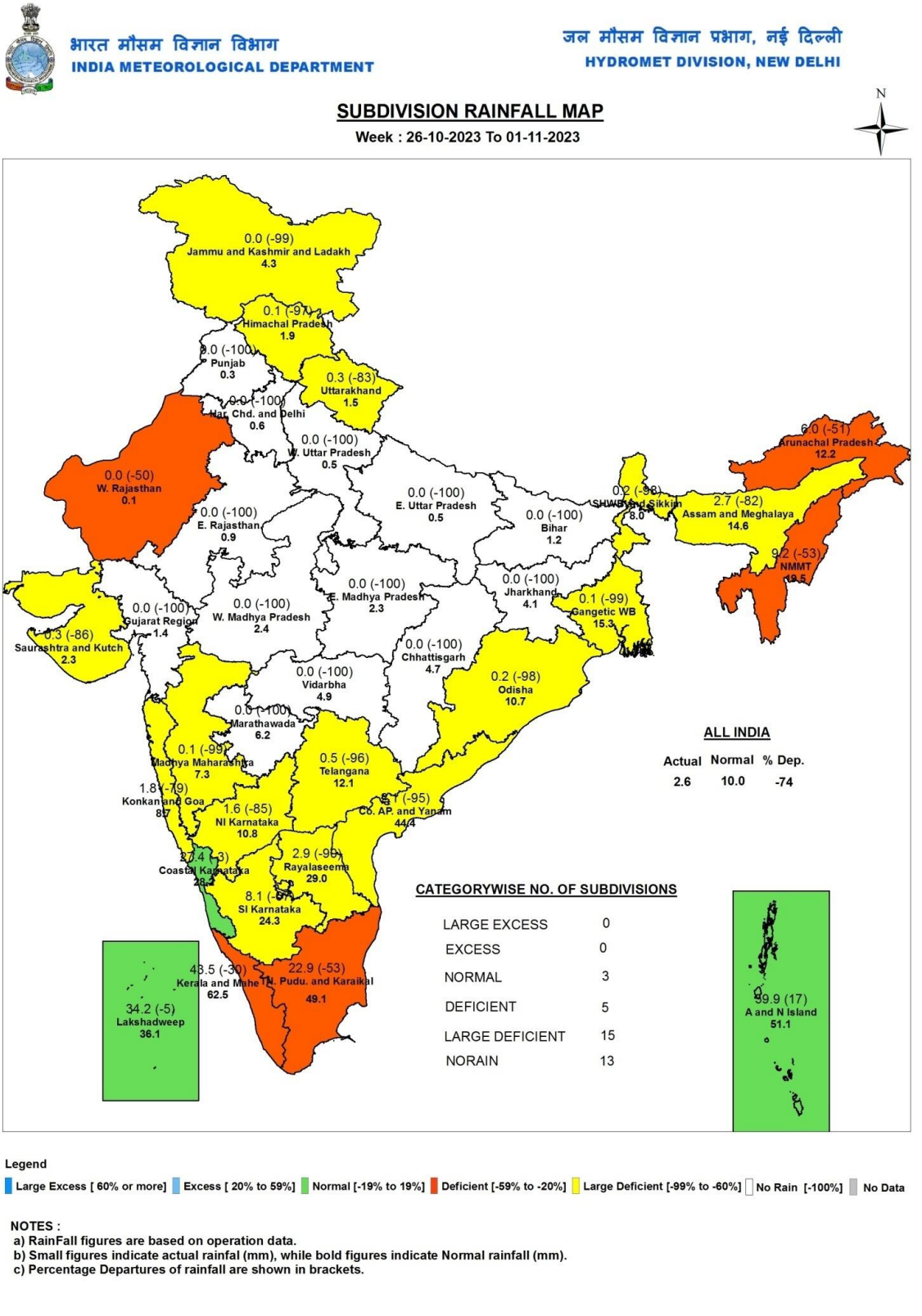
- ✓ No active easterly wave is likely to affect South Peninsular India during the week.
- ✓ No active Western Disturbance likely to affect northwest India during the week.
- ✓ Overall, rainfall activity is likely to be **below normal** over all the regions of India during the week.

Minimum temperature forecast for Week 1 (02 to 08 November, 2023) and Week 2 (09 to 15 November, 2023)

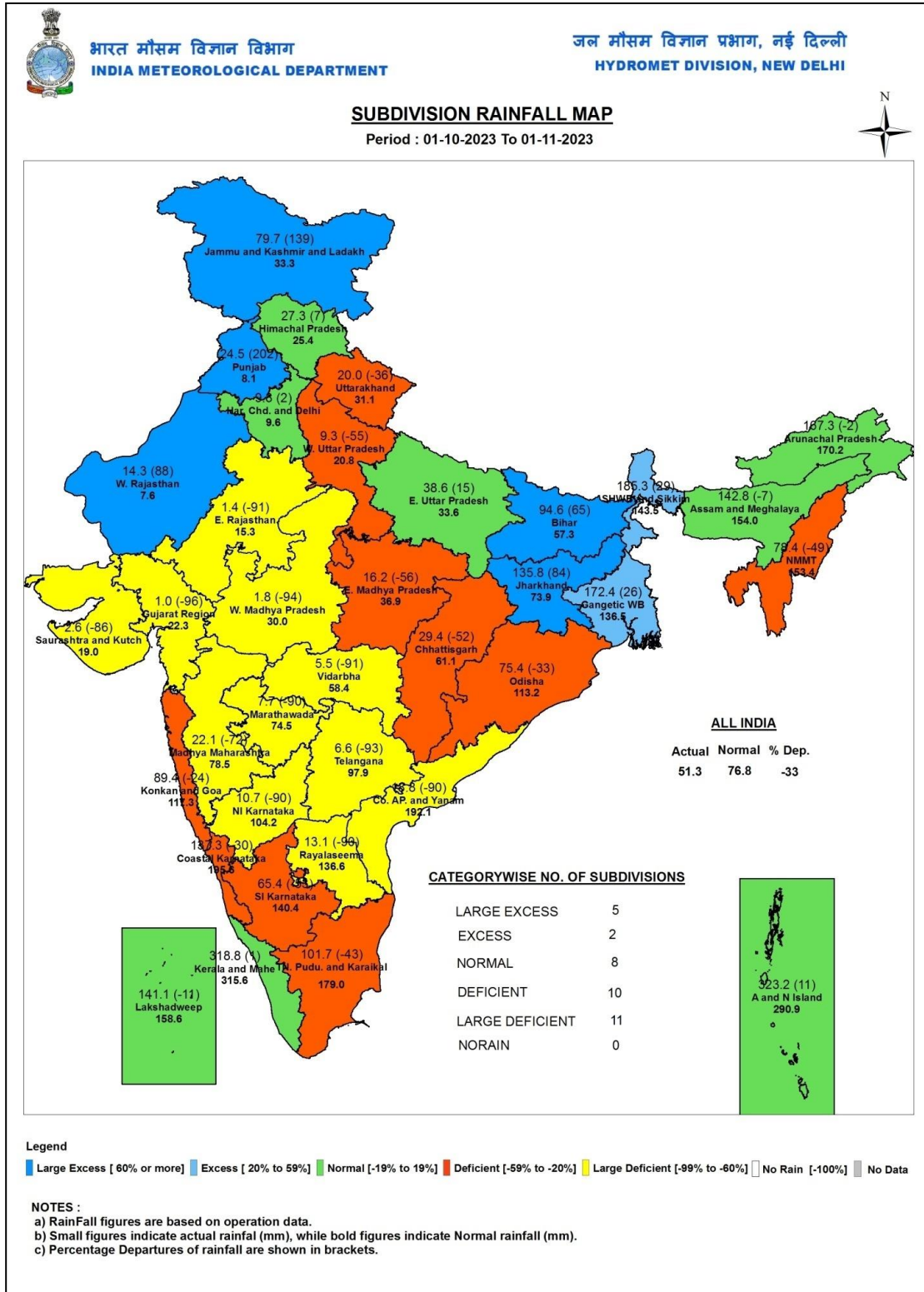
- ✓ **Minimum Temperature Departures (as on 02-11-2023):** Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, south Punjab, Delhi, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh, East Rajasthan, Jharkhand, Chhattisgarh; at a few places over Gangetic West Bengal, north Gujarat, Coastal Andhra Pradesh & Yanam; at isolated places over Himachal Pradesh, Uttar Pradesh, Telangana, Rayalaseema, Odisha, Arunachal Pradesh and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 10.9°C is reported at Jalgaon (Madhya Maharashtra) over the plains of the country.
- ✓ Minimum temperatures are very likely to be near normal to above normal by 1-2°C over Northwest & central India. It is likely to be near normal or below normal by 1-2°C over rest parts of the country during next 2 week.

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

Annex: I



Annex II

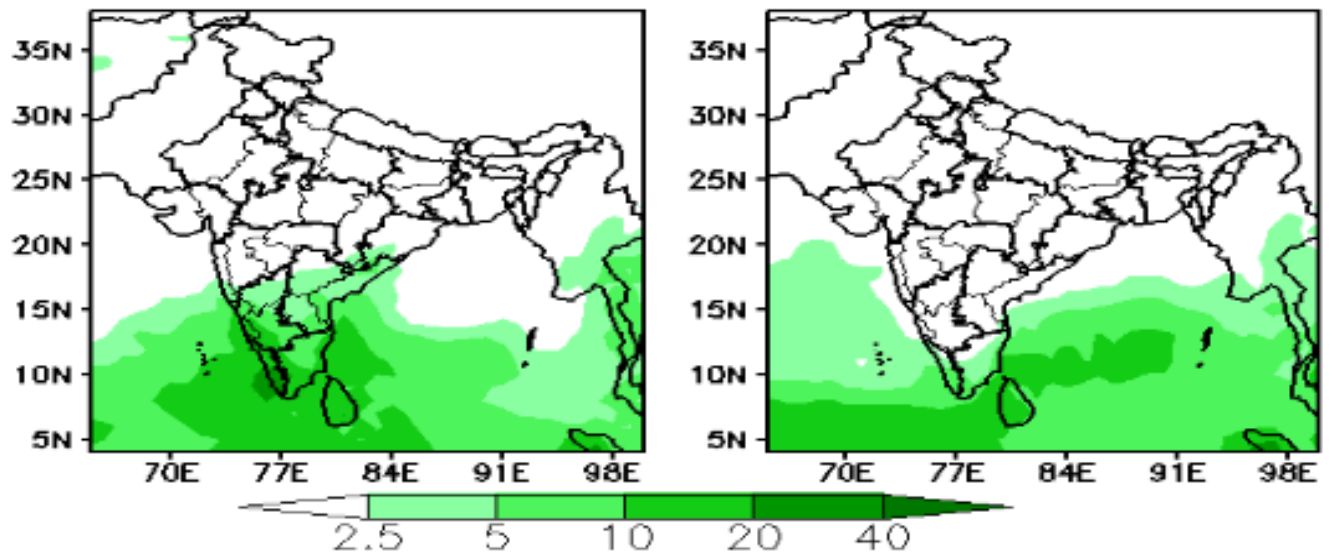


Forecast Rainfall (mm/day)

(00Z=0530 hrs IST)

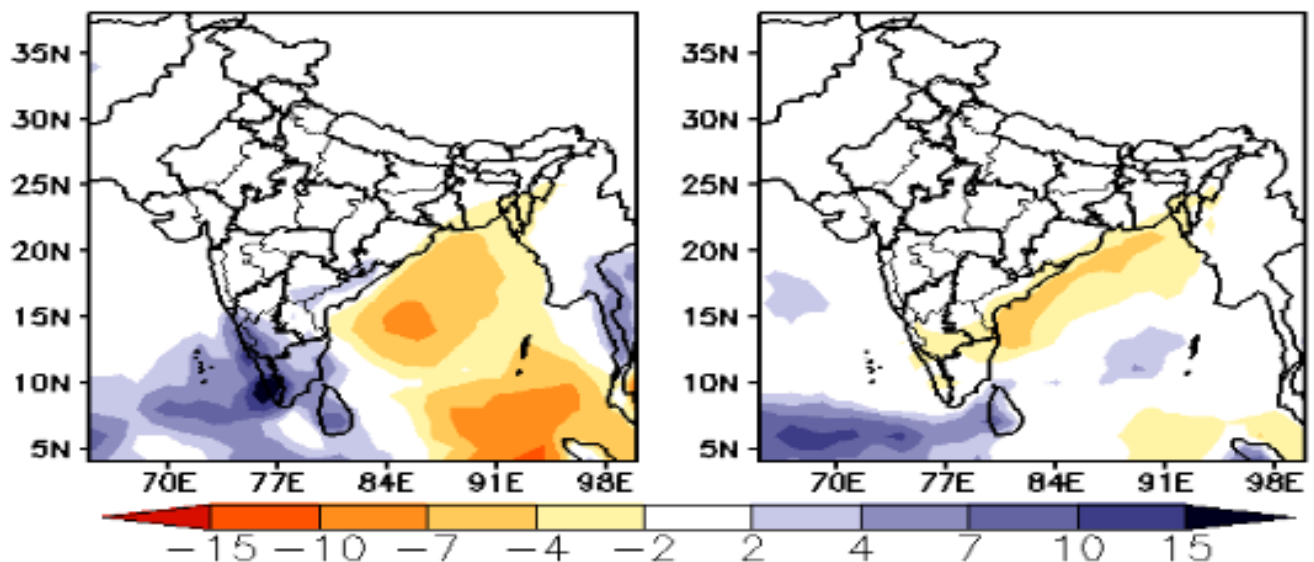
(Week1:00Z02Nov–00Z09Nov)

(Week2:00Z09Nov–00Z16Nov)

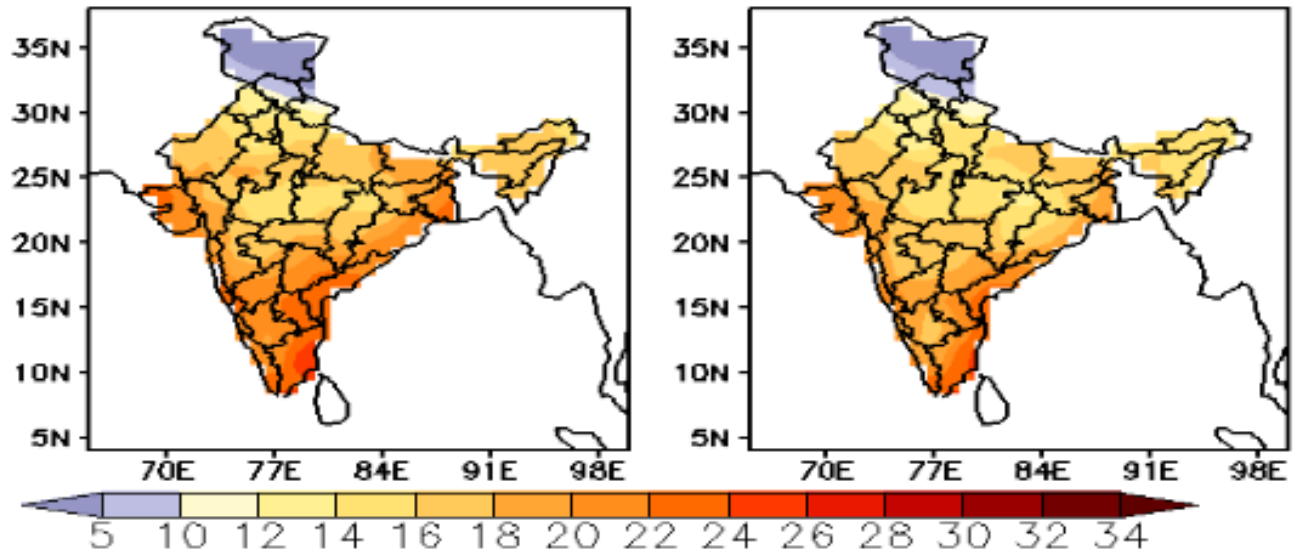
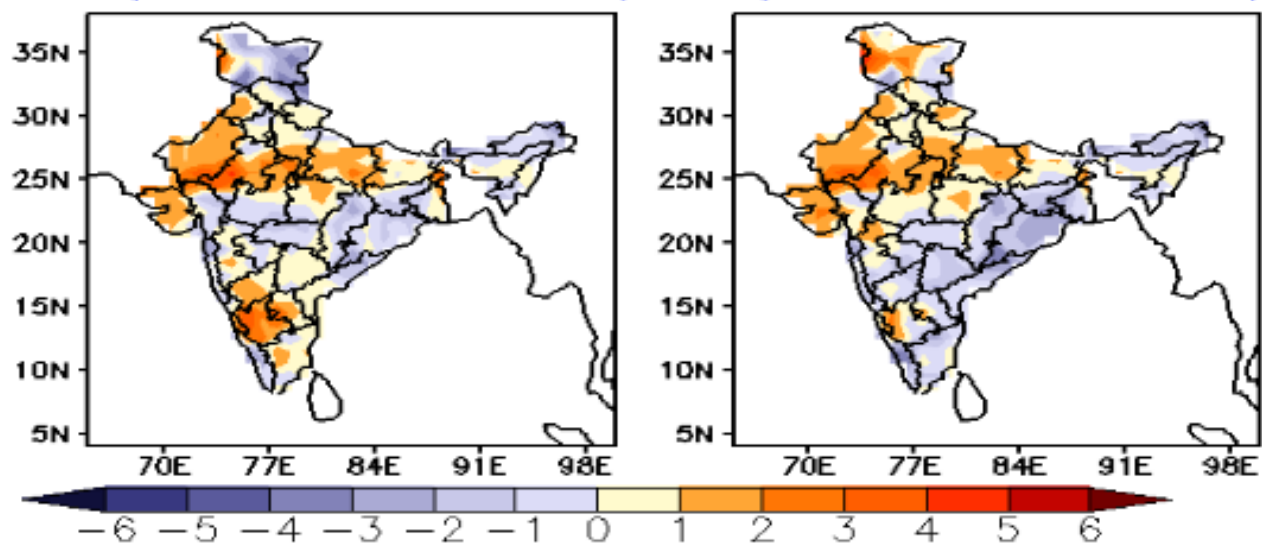
**Forecast Rainfall Anomaly (mm/day)** (00Z=0530 hrs IST)

(Week1:00Z02Nov–00Z09Nov)

(Week2:00Z09Nov–00Z16Nov)



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

MME Bias corrected forecast Tmin (Deg C)**(Week1: 03Nov–09Nov)****(Week2: 10Nov–16Nov)****MME forecast Tmin anomaly (Deg C)****(Week1: 03Nov–09Nov)****(Week2: 10Nov–16Nov)**

Extended range forecast of Minimum Temperature (top panel) and anomalies(lower panels) from IMD MME