



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

Press Release: Dated: 14 March 2024

Subject: Current Weather Status and Extended range Forecast for next two weeks (14-28 March 2024)

1. Salient Observed Features for week ending 13 March 2024

- **Due to impact of a fresh WD**, Light/Moderate rainfall/snowfall observed at isolated places over Jammu-Kashmir, Uttarakhand and Himachal Pradesh on 12 and 13 March. Hailstorm was observed at isolated places over Himachal Pradesh on 12th & 13th March.
- **Temperature Scenario**: The highest maximum temperature of **41.0°C** had been recorded at **Anantapur (Rayalaseema)** on 12th March 2024 and the lowest minimum temperature of **6.9°C** is reported at **Karnal (Haryana)** on 07th March 2024.

➤ **Analysis of Weekly overall Rainfall distribution during the week ending on 13 March 2024 and Summer Season's Rainfall Scenario (1-13 March 2024)**: 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 13 March 2024 was -91%. All India Seasonal cumulative rainfall % departure during this year's **Winter's Rainfall** during **1 March to 13 March 2024** is -6% and over northwest India, it is +41%. 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		
	07.03.2024 TO 13.03.2024			01.03.2024 TO 13.03.2024		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	1.7	11.2	-85%	7.1	19.5	-63%
NORTH-WEST INDIA	0.5	11.2	-96%	30.6	21.7	+41%
CENTRAL INDIA	0.5	2.4	-80%	3.4	4.3	-21%
SOUTH PENINSULA	0.2	3.9	-94%	0.2	6.5	-96%
Country as a whole	0.6	6.8	-91%	11.7	12.5	-6%

2. Large scale features

currently Madden Julian Oscillation (MJO) index is in Phase 5 with amplitude more than 1. It would move across phase 6 with amplitude remaining significantly higher than 1 during first half of week 1. Thereafter, it would move across phases 7 and 8 with amplitude gradually becoming less than 1 during later part of week 2. Thus, the MJO is not likely to contribute to enhancement of rainfall activity or cyclogenesis over the North Indian Ocean (NIO) during the entire forecast period.

3. Forecast for next two week

Forecast for next two week

[Weather systems & associated Precipitation during Week 1 \(14 to 20 March, 2024\) and Week 2 \(21 to 27 March, 2024\)](#)

[Weather systems & associated Precipitation during Week 1 \(14 to 20 March, 2024\)](#)

- ❖ A trough runs from Gangetic West Bengal to north Coastal Andhra Pradesh in lower tropospheric levels and an anti-cyclonic circulation lies over Westcentral Bay of Bengal. Under the influence of these systems:
- ✓ Scattered to fairly widespread rainfall with isolated **thunderstorms, lightning & gusty winds (30-40 kmph) very likely over Gangetic West Bengal during 14th – 19th March. Isolated hailstorm also likely over Gangetic West Bengal on 14th & 16th March.**
- ✓ Isolated light to moderate rainfall with **thunderstorms, lightning & gusty winds (30-40 kmph)** over Jharkhand & Odisha during 14th-20th; over Vidarbha, Chhattisgarh and East Madhya Pradesh during 16th-20th March, 2024. **Isolated hailstorm also likely over East Madhya Pradesh, Vidarbha & Chhattisgarh on 17th & 18th March.** Isolated light rainfall/snowfall very likely over Sub-Himalayan West Bengal & Sikkim on 15th&16thmarch, 2024.
- ❖ Isolated to scattered light/moderate rainfall/snowfall very likely over Arunachal Pradesh and Isolated light rainfall over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 14th-20th March, 2024.

Rainfall for week 2 (14 to 20 March, 2024):

- ✓ Under the influence of Western Disturbances, light/moderate scattered to fairly widespread rainfall/snowfall likely over Western Himalayan Region and isolated to scattered rainfall with thunderstorm activity likely over northwest & adjoining central India during some days of the week.
- ✓ Overall, rainfall activity is likely to be above **normal** over northwest & northeast India, near normal over many parts of central & east India and below normal over south Peninsular India.

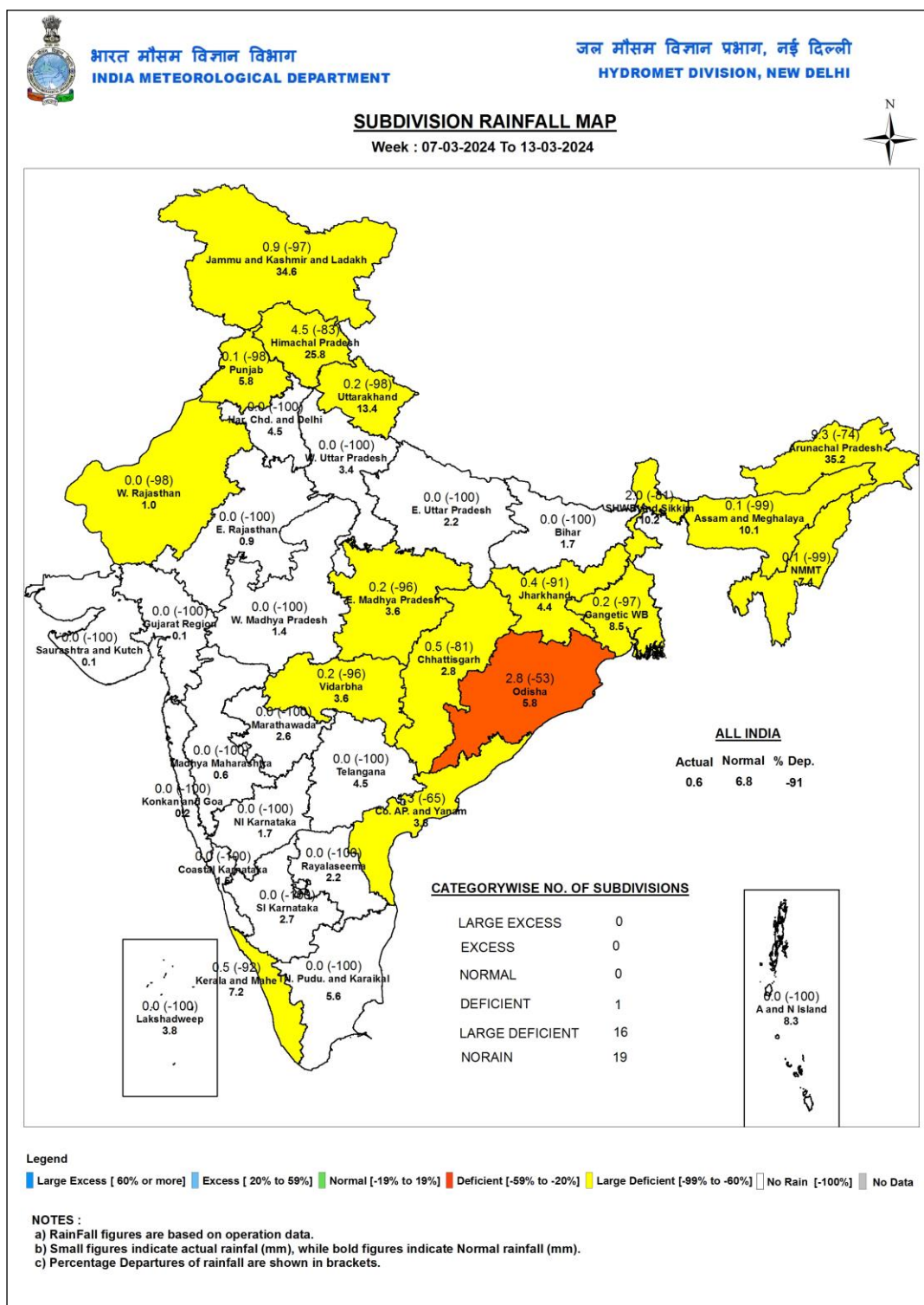
Maximum temperatures for Week 1 (14 to 20 March, 2024) and Week 2 (21 to 27 March, 2024)

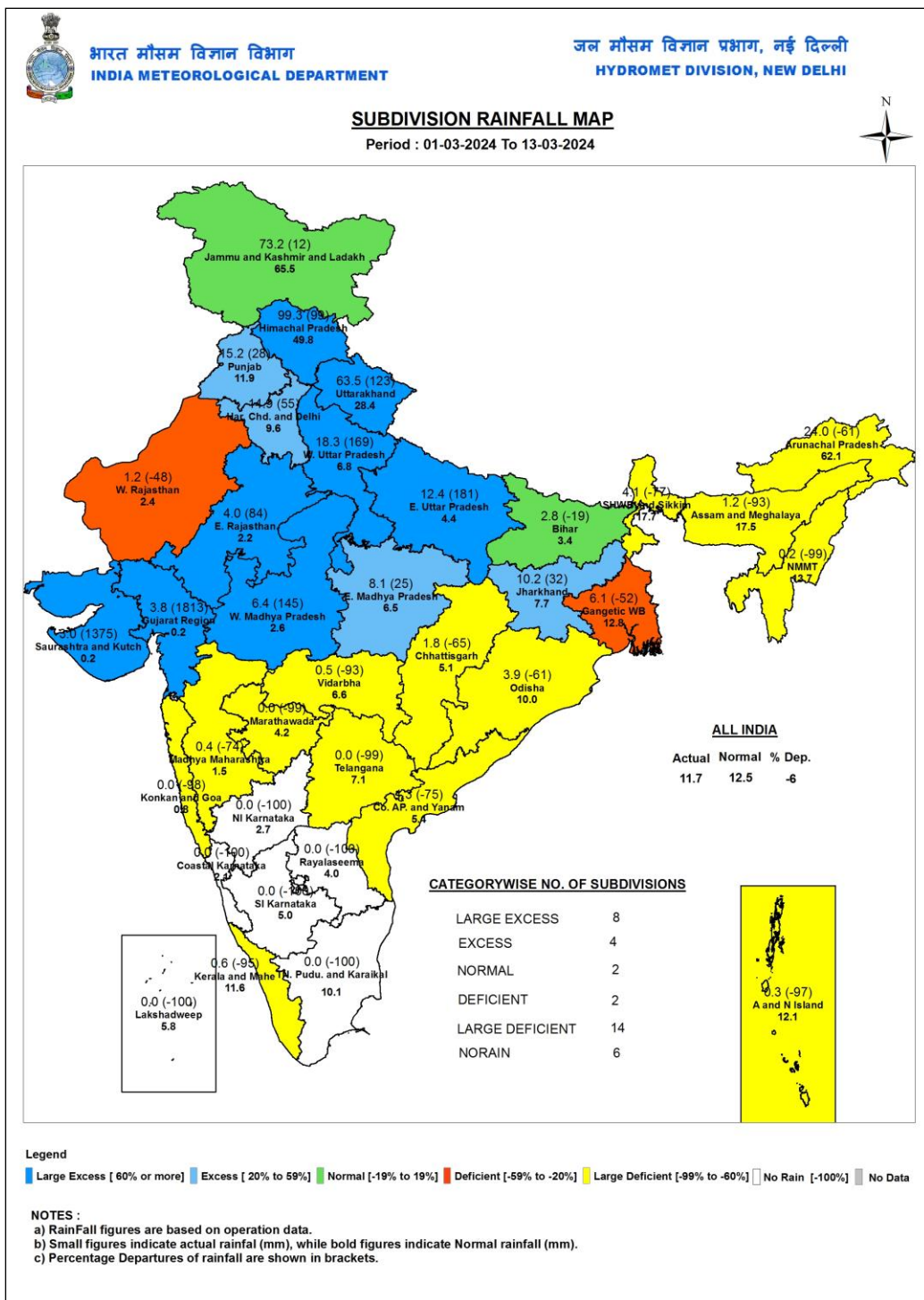
Maximum temperatures for Week 1 (14 to 20 March, 2024):

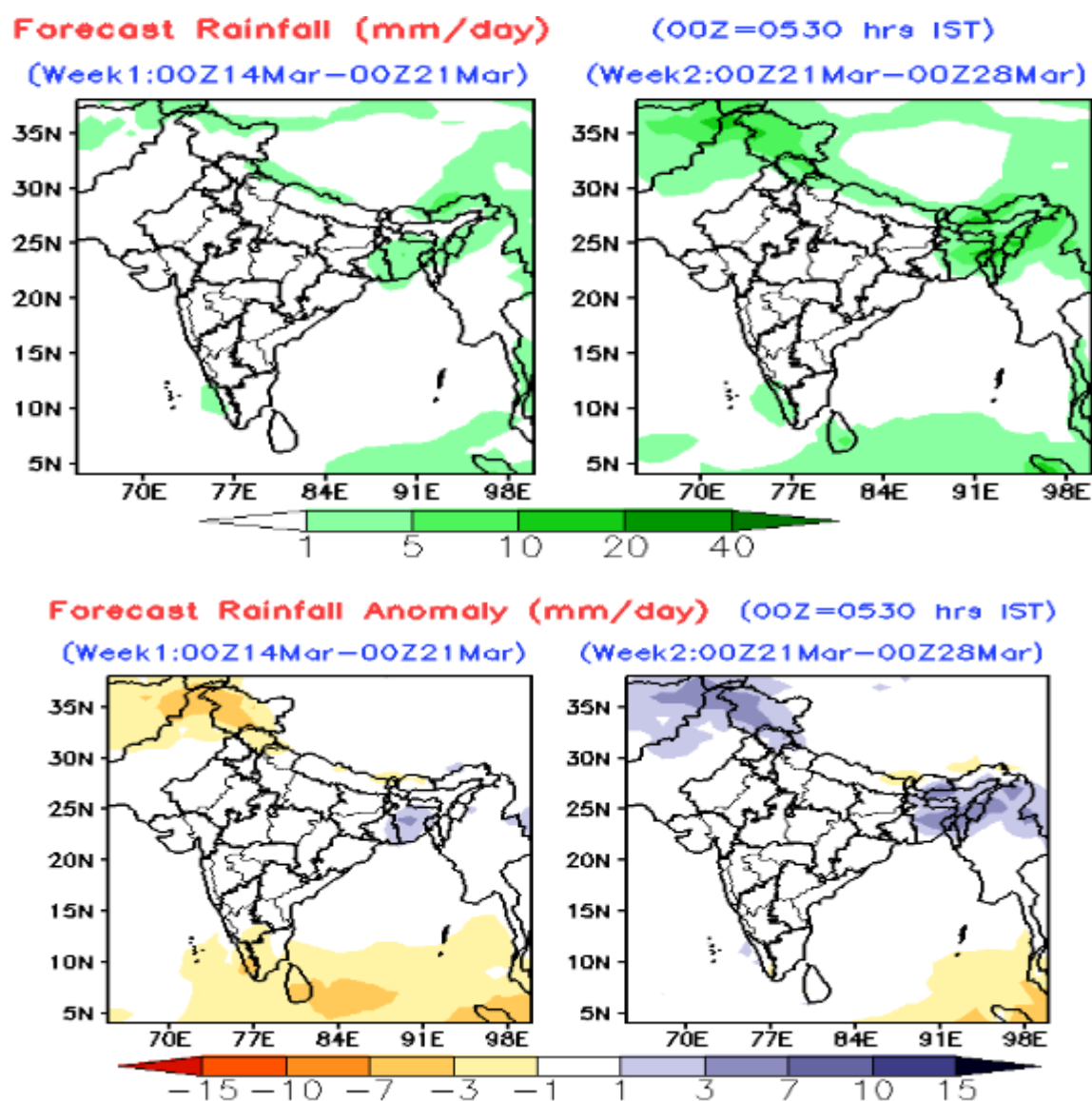
- ❖ **Maximum temperatures are above normal by 2-4°C over many parts of south Peninsular India. It is likely to remain same during most days of the week.**
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Rayalaseema and Tamil Nadu, Puducherry & Karaikal during most days of the week.
- ❖ No significant change in maximum temperatures very likely over Northwest & West India during 1st half of the week and rise by 2-4°C thereafter.
- ❖ Gradual fall in maximum temperatures by 2-3°C very likely over Odisha during 1st half of the week and no significant change thereafter.
- ❖ **There is low probability of heat wave over isolated pockets of North Interior Karnataka, Marathawada, Telangana, South Vidharbha and Rayalaseema during some days of the week.**

Maximum temperatures for Week 2 (21 to 27 March, 2024):

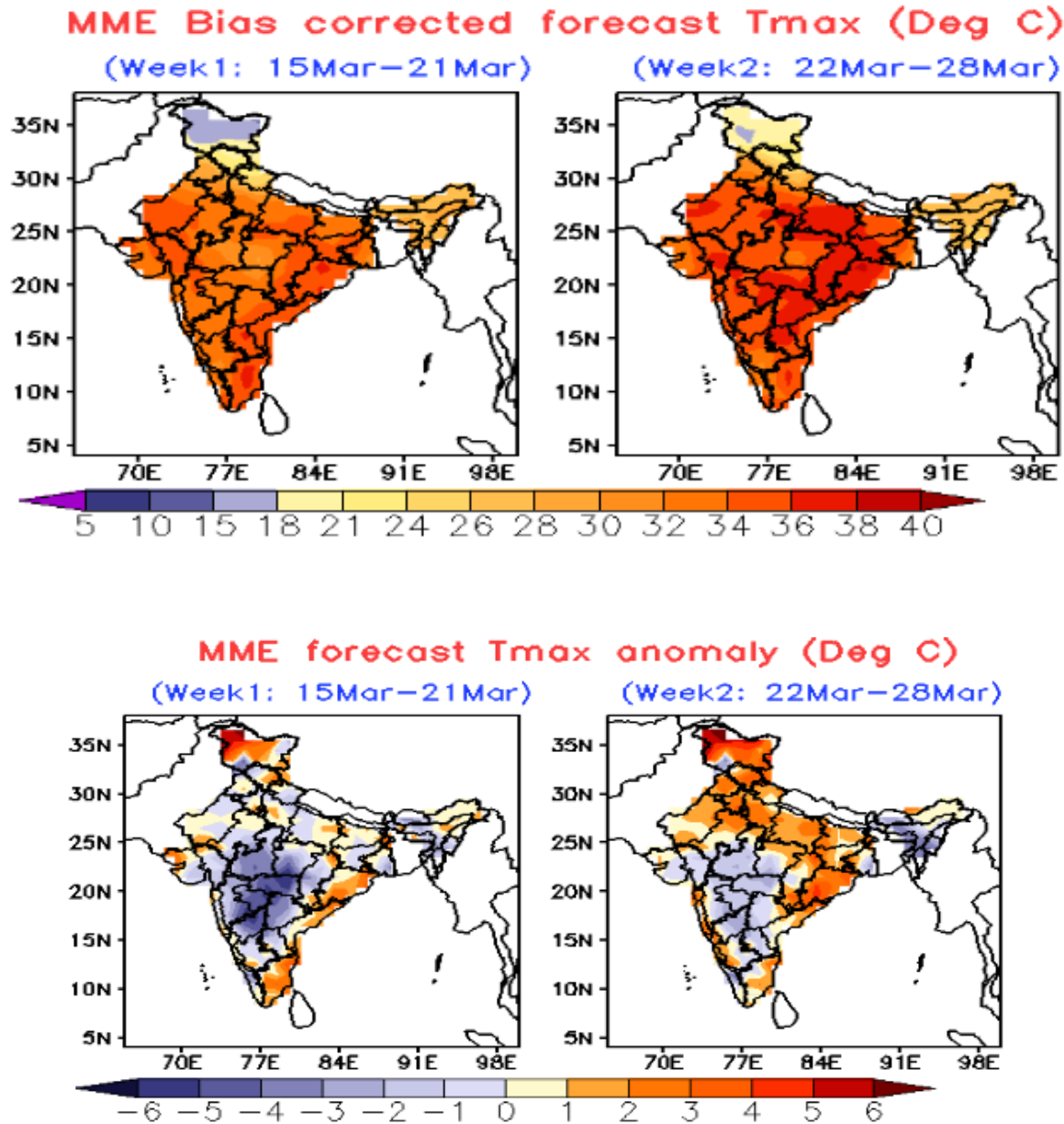
- The maximum temperatures are likely to rise gradually by 2-3°C over many parts of northwest & central India as compared to week 1.
- These are very likely to be above normal over many parts of northwest & east India and west coast. These are likely to be near normal over most parts of Interior Peninsular India.
- **Hot and humid weather likely to prevail over isolated pockets of Maharashtra & Karnataka Coast, Tamilnadu, Andhra Pradesh and Odisha during some days of the week.**
- **There is low probability of heat wave over isolated pockets of Coastal Andhra Pradesh and Odisha during some days of the week.**







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

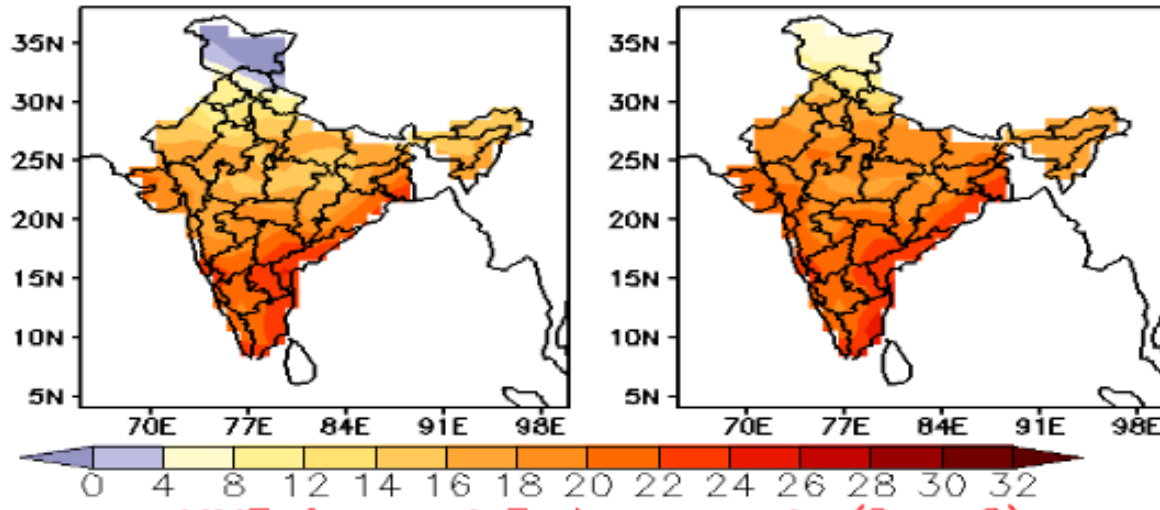


Extended range forecast of Maximum Temperature (top panel) and anomalies(lower panels) from IMD MME

MME Bias corrected forecast Tmin (Deg C)

(Week1: 15Mar–21Mar)

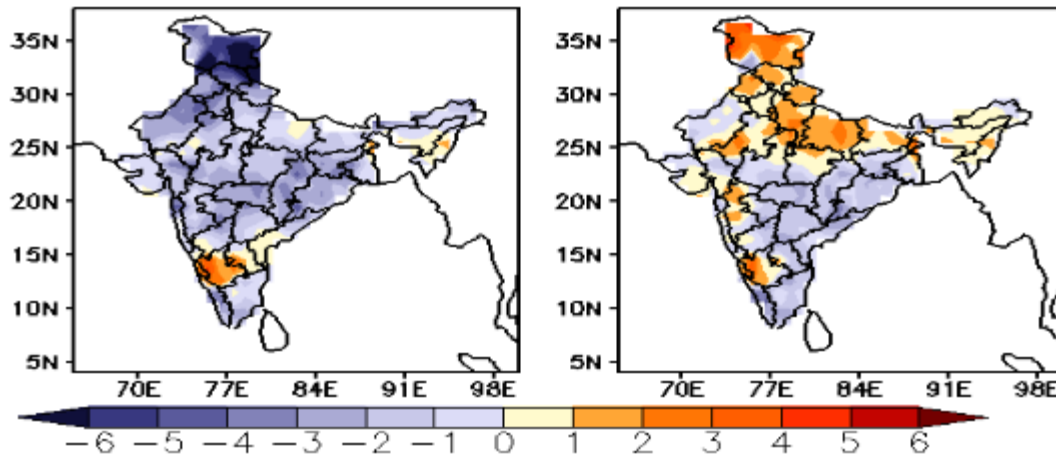
(Week2: 22Mar–28Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 15Mar–21Mar)

(Week2: 22Mar–28Mar)



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

MME

Annexure IV

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Week 1: 15.03.2024 -21.03.2024



Week2: 22.03.2024- 28.03.2024



PROBABILITY OF HEATWAVE CONFIDENCE

LOW (1-33% PROBABILITY)



MODERATE (34-67% PROBABILITY)



HIGH (68-100% PROBABILITY)

