

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

Press Release: Dated: 06th March, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (06th March to 19th March 2025)

1. Salient Observed Features for the week ending 05th March 2025:

- ❖ **Two Western Disturbances (WDs; 27 Feb – 2 Mar & 2-5 Mar)** moved across northern parts of India during the week.
- ❖ A longer wet spell was observed over Western Himalayan region during the week with Extremely heavy rainfall/snowfall on 28 Feb. The heavy rainfall and snowfall spell during 27 Feb till 1 March was mainly due to slow movement of an intense Western Disturbance (1st WD) and formation of Induced low pressure Area over west Rajasthan & adjoining parts of Pakistan during the period. Fairly widespread to widespread rainfall/snowfall over Jammu & Kashmir, Himachal Pradesh Uttarakhand from 27th February to 1st March. Fairly widespread to widespread rainfall was observed over Punjab and Haryana on 28th February & 1st March. **Heavy to very heavy rainfall with extremely heavy falls** at isolated places over Jammu & Kashmir on 28th February, **Heavy to very heavy rainfall** at isolated places of Himachal Pradesh and Punjab on 28th February. **Heavy rainfall** observed at isolated places over Jammu & Kashmir on 27th February, Uttarakhand on 28th February, Himachal Pradesh, Uttarakhand and Tamil Nadu on 1st March.
- ❖ **Thunderstorm** recorded at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 27th February; Jammu & Kashmir, Himachal Pradesh and Punjab on 28th February; Uttarakhand, Punjab, Haryana & Chandigarh, Uttar Pradesh, Bihar, south Tamil Nadu, Kerala & Mahe and Lakshadweep on 1st March.
- ❖ **Hailstorms** reported at isolated places over Jammu & Kashmir and Himachal Pradesh on 27th February, Jammu & Kashmir on 28th February; Uttarakhand, Punjab, Haryana, West Uttar Pradesh and North Rajasthan on 1st March.
- ❖ **The 2nd WD only caused** light rainfall/snowfall over Jammu & Kashmir, Himachal Pradesh on 25th & 26th February, Uttarakhand on 26th February. Light to moderate rainfall was observed over Punjab and Haryana on 26th February.

- ❖ **Weekly Average Minimum temperature** was above normal by 1-3°C over parts of north, northwest and west coast of India, and nearly normal over remaining parts of the country during the week. **Weekly Average Maximum temperature** was above normal by 1-3°C over northern, western and central India, below normal by 1-3°C over parts of northeast India, and near normal over south Peninsular India during the week.
- ❖ **Heat Wave** conditions observed at isolated places over Konkan on 27th February, Konkan & Coastal Karnataka on 28th February.
- ❖ **Temperature Scenario:** The lowest minimum temperature of **4.0°C** had been recorded at **Fatehpur (Rajasthan)** on **05 March, 2025** and the highest maximum temperature of **40.2°C** had been recorded at **Kannur Airport (Kerala & Mahe)** on **28 February, 2025** over the plains of the country during the week.
- ❖ **Analysis of weekly overall rainfall distribution during the week-ending on 05th March and Winter Season's Rainfall Scenario (1st January – 28th February 2025):** The country as a whole, the weekly cumulative All India Rainfall (for 27th February to 05th March 2025) in % departure from its long period average (LPA) is +522%. All India Seasonal cumulative rainfall % departure during this year's Winter Season Rainfall (01st January to 28th February 2024) is -47%. Details of the rainfall distribution over the four broad geographical regions of India are given in Table 1, and Meteorological sub-division-wise rainfall for week and season are given in Annexure I & II, respectively.

Table 1: Rainfall status (Week and season)

Region	Week			Season		
	27.02.2025 TO 05.03.2025			01.01.2025 TO 28.02.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	4.1	2.9	+43%	33.7	47.2	-29%
NORTHWEST INDIA	34.3	3.5	+879%	43.4	78.7	-45%
CENTRAL INDIA	0.0	0.7	-99%	1.6	14.9	-90%
SOUTH PENINSULA	3.2	0.5	+538%	8.7	15.7	-45%
THE COUNTRY AS A WHOLE	11.8	1.9	+522%	20.9	39.8	-47%

2. Large scale features:

- ❖ Over the equatorial Pacific Ocean, weak La Niña conditions are present and are expected to persist till April 2025. After that, a transition to ENSO-neutral conditions is likely.
- ❖ Near-average sea surface temperatures (SSTs) are currently seen across most of the Indian Ocean. 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 15 days.
- ❖ The Madden Julian Oscillation (MJO) index is currently in Phase 1 with an amplitude > 1 . It will remain in Phase 1 throughout Week 1. By the start of week 2, it is likely to migrate in Phase 2 with amplitude becoming < 1 . During the middle of week 2, it is likely to migrate from Phase 2 to 3 with amplitude remaining < 1 . By the end of week 2, it is likely to further propagate to Phase 4 with amplitude remaining < 1 .

3. Forecast for the next two weeks

Weather systems & associated Precipitation during Week 1 (06 to 12 March, 2025):

- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 09th March, 2025. Under its influence;
 - ✓ **Scattered to fairly widespread** light/moderate rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh during 09th – 12th and **Isolated** light/moderate rainfall/snowfall likely over Uttarakhand during 10th -12th March.
- ❖ A trough runs roughly along Long. 86°E to the north of Lat. 23°N and a **cyclonic circulation** lies over northeast Assam in lower tropospheric levels. Under their influence,
 - ✓ **Scattered light/moderate rainfall/snowfall** accompanied with **thunderstorm and lightning** likely over Arunachal Pradesh, Assam on 06th & 07th; and over Nagaland on 07th March.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Bihar on 08th; with **thunderstorm & lightning** over Sikkim on 07th & 08th March.

❖ **Strong surface winds (25-35 kmph gusting to 40 kmph) likely to prevail over the plains of Northwest India including Delhi till afternoon hours of today, 06th March.**

❖ No significant weather likely over rest parts of the country during the week.

Precipitation for week 2 (13 to 19 March, 2025):

- ❖ Under the influence of western disturbances, scattered to fairly widespread rainfall/snowfall is likely over Western Himalayan Region during first half of week2.
- ❖ Light/moderate scattered to fairly widespread rainfall is also likely over northeast India and south Peninsular India during some days of the week.
- ❖ Overall, rainfall is likely to be below normal over all the homogeneous regions of the country during the week except northeast and south Peninsular India, where it is likely to be near normal during the week.

Temperature forecast & heat wave warning for Week 1 (06 to 12 March, 2025) and Week 2 (03 to 19 March, 2025)

Temperature forecast & heat wave warning for Week 1 (06 to 12 March, 2025):

Maximum temperature:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Northwest, central India and Gujarat State during next 4-5 days.
- ❖ No significant change in maximum temperatures likely over East India during next 2 days and gradual rise by about 2-3°C thereafter.
- ❖ No significant change in maximum temperatures likely over Maharashtra during next 24 hours and gradual rise by 2-4°C thereafter.

Hot & Humid weather warnings:

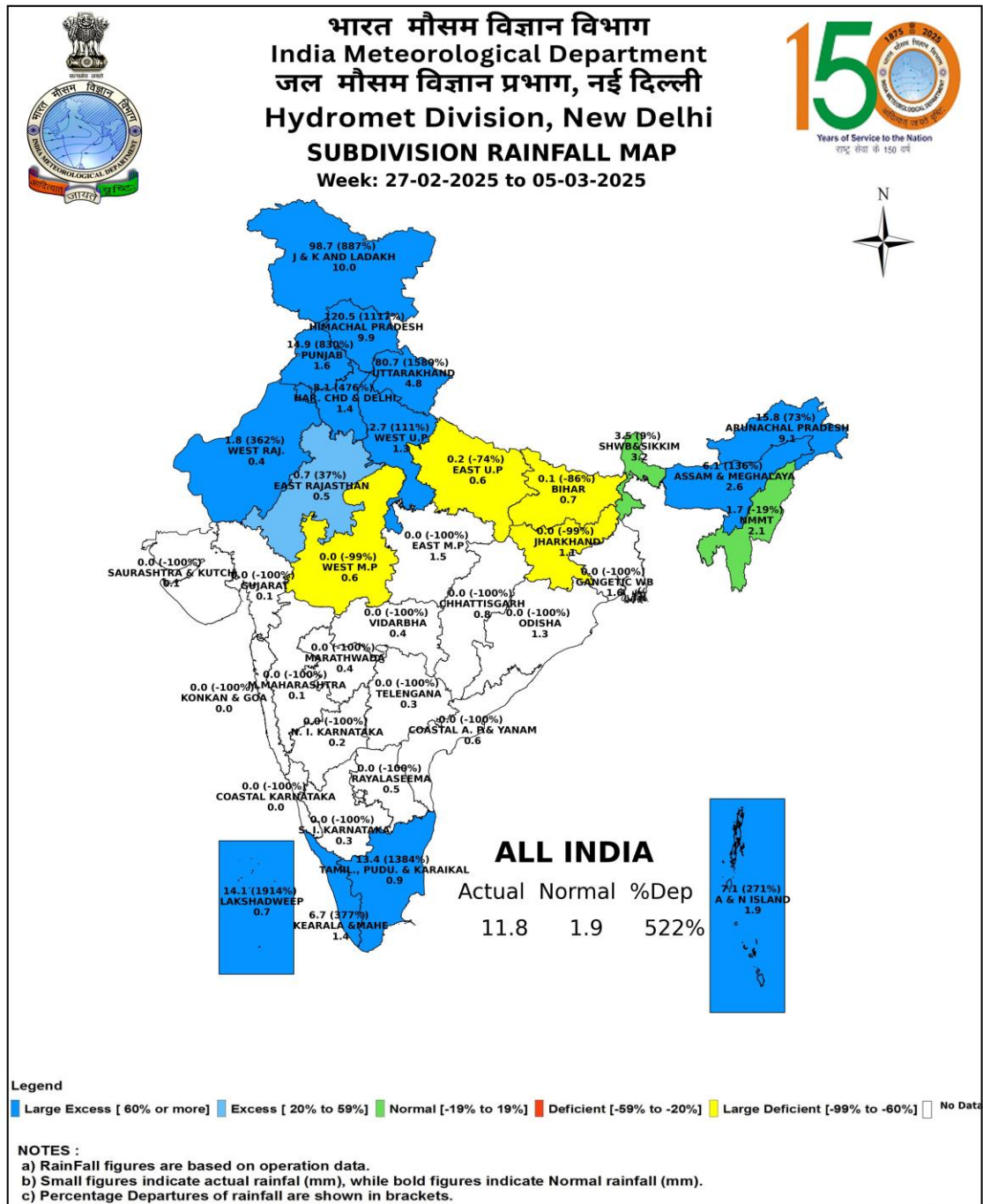
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa, Kerala & Mahe, Coastal Karnataka during 06th -08th; Coastal Andhra Pradesh & Yanam on 06th & 07th; Gujarat Region on 09th & 10th March.

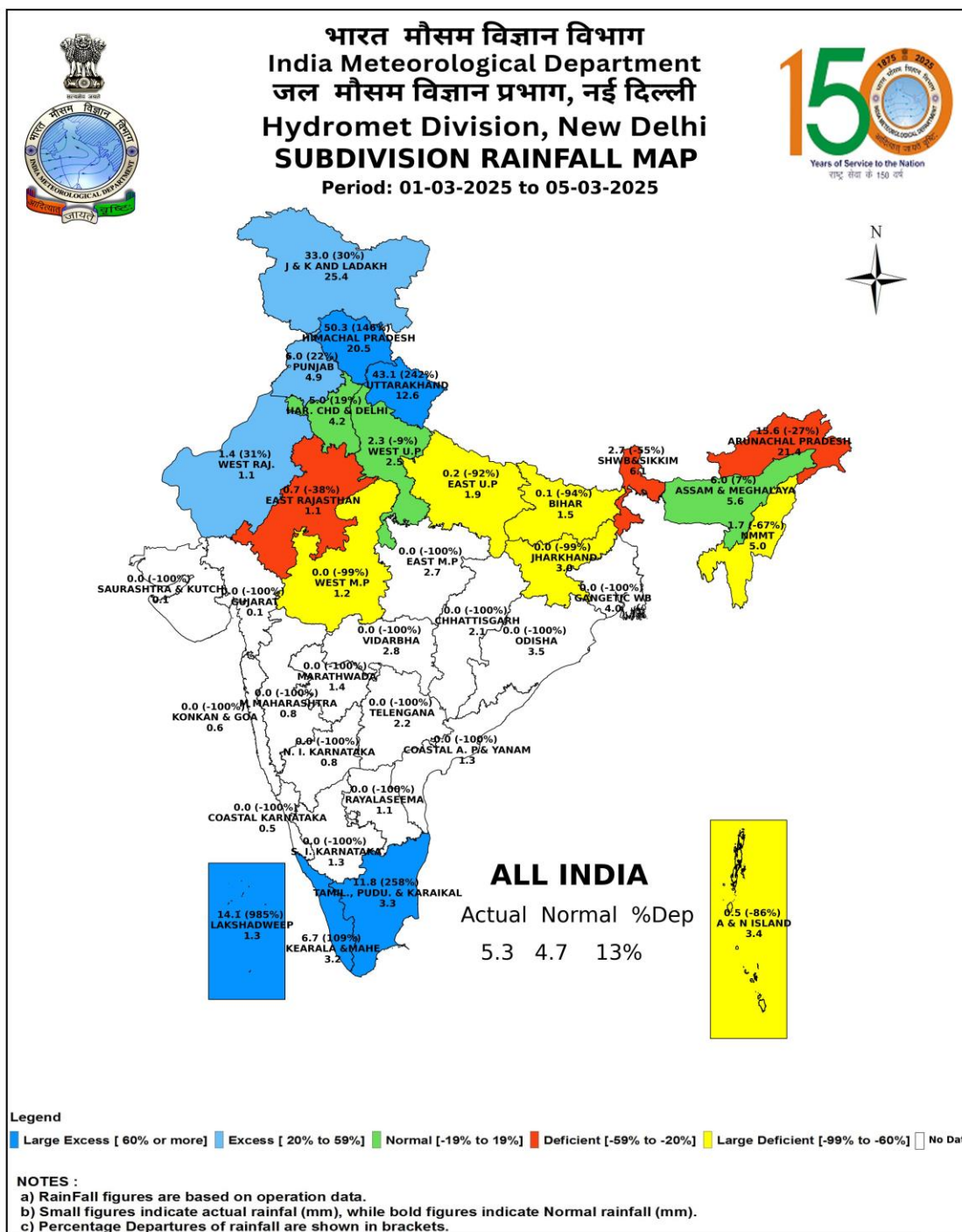
Heat Wave Warning:

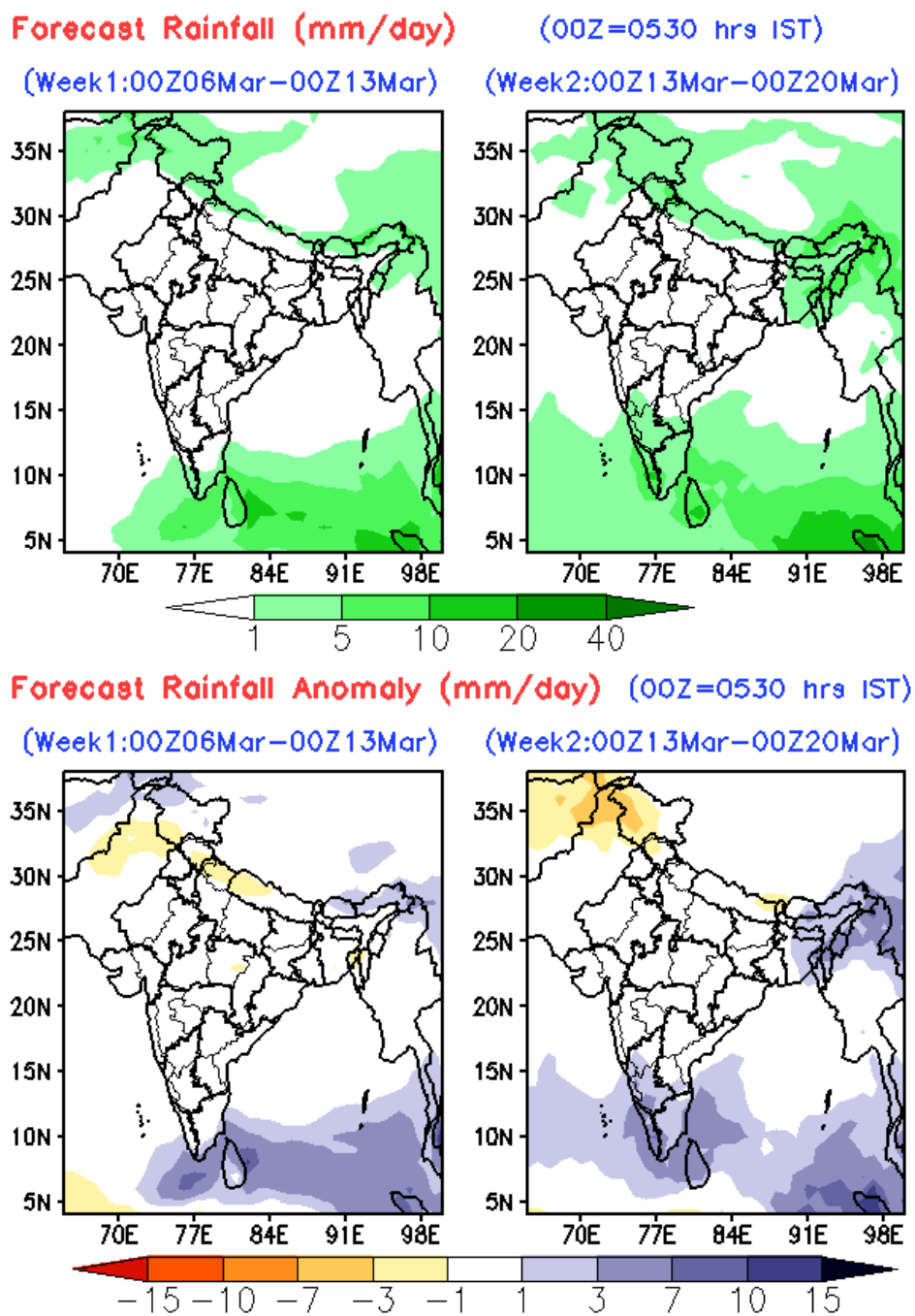
- ❖ **Heat wave** very likely to prevail over Konkan & Goa on 09th & 10th March.

Temperature forecast & heat wave warning for Week 2 (13 to 19 March, 2025):

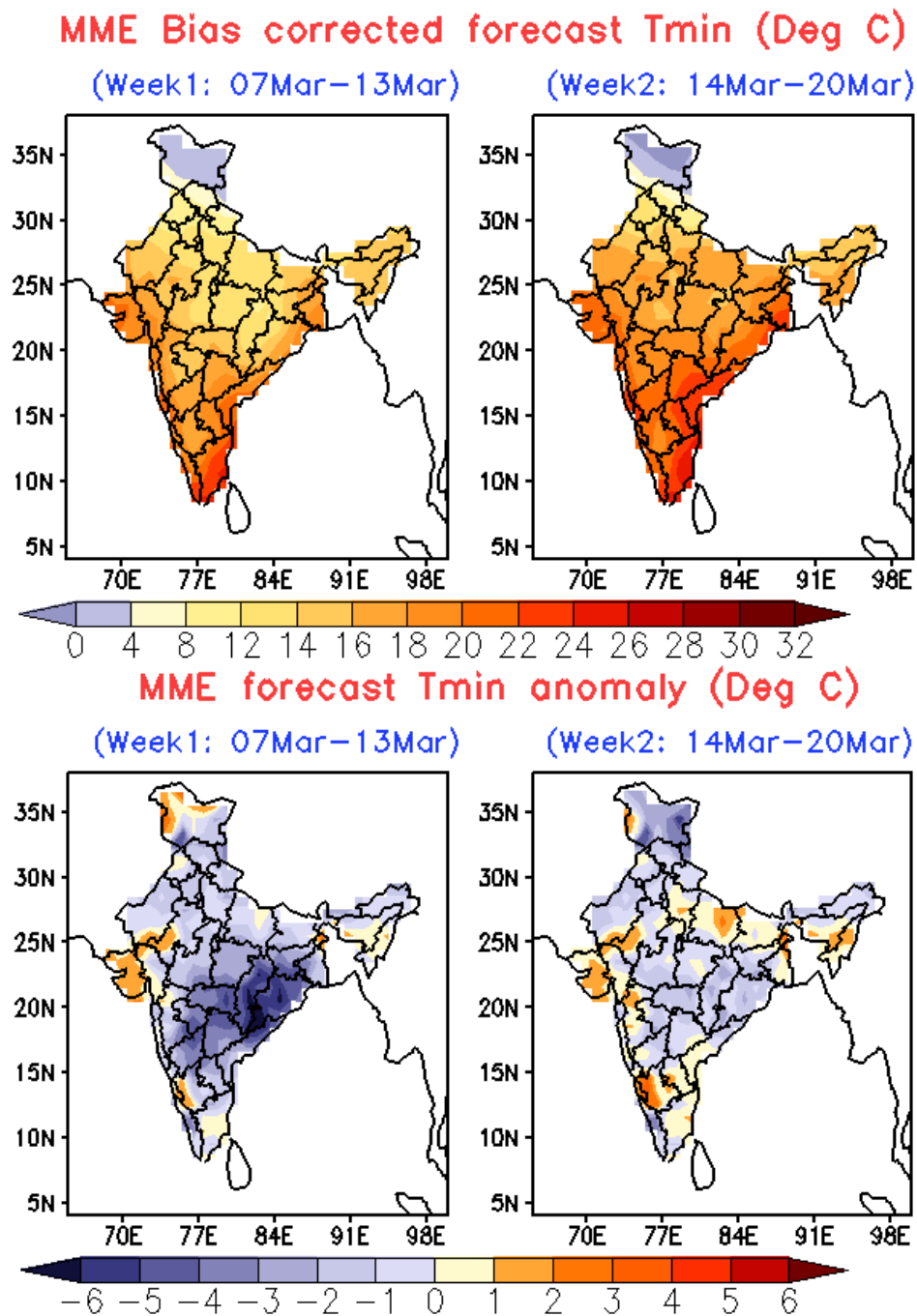
- ❖ Maximum temperatures are likely to be above normal by 2-3°C over many parts of northwest India and along west & east coast of India. It is likely to be near normal or below normal over rest parts of the country.
- ❖ There is a low to moderate probability of heatwave conditions over interior Odisha and north Coastal Andhra Pradesh.
- ❖ Minimum temperatures are likely to be below normal or near normal over most parts of the country except parts of coastal Karnataka, where it will be 2-3°C above normal.







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

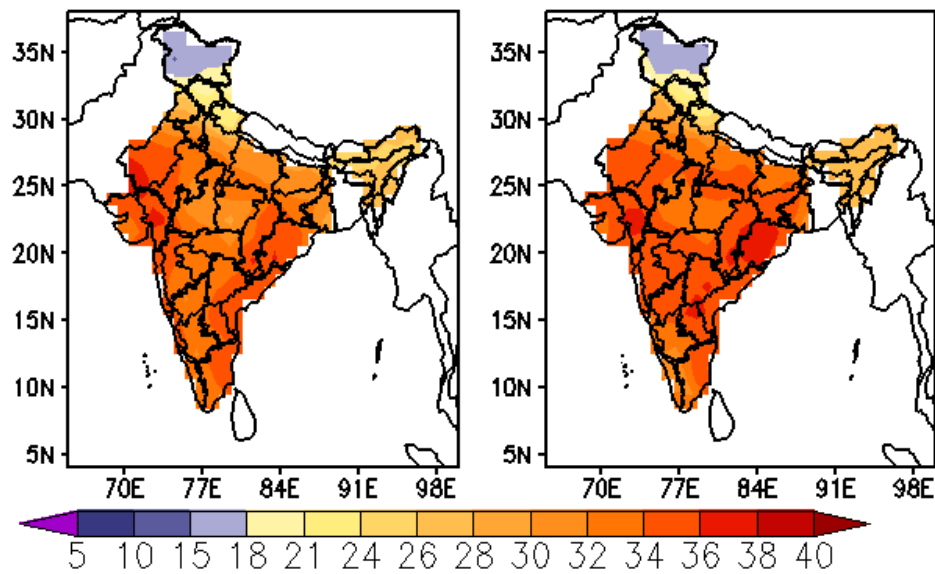


Extended range forecast of weekly distribution of Minimum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

MME Bias corrected forecast Tmax (Deg C)

(Week1: 07Mar–13Mar)

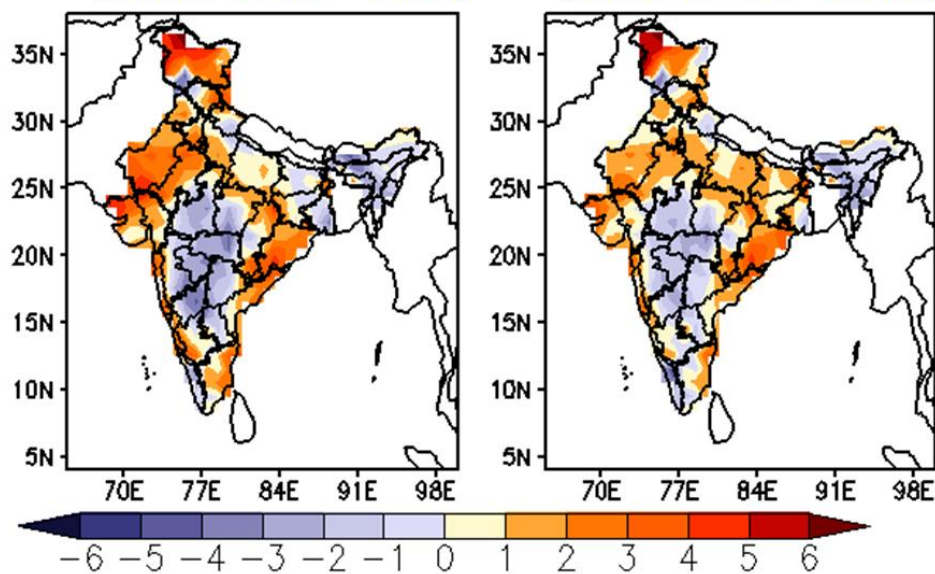
(Week2: 14Mar–20Mar)



MME forecast Tmax anomaly (Deg C)

(Week1: 07Mar–13Mar)

(Week2: 14Mar–20Mar)



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

Heat Wave forecast during next 2 weeks

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Week1: 07.03.2025- 13.03.2025



Week2: 14.03.2025- 20.03.2025



PROBABILITY OF HEATWAVE

CONFIDENCE

LOW (1-33% PROBABILITY)
MODERATE (34-67% PROBABILITY)
HIGH (68-100% PROBABILITY)

