



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

**Press Release: Dated: 25 April 2024**

**Subject: Current Weather Status and Extended range Forecast for next two weeks (25 April-8 May 2024)**

**1. Salient Observed Features for week ending 24 April 2024**

- **Last week's Heat wave conditions (2<sup>nd</sup> spell of Heat wave during this season)** further intensified over the eastern parts of India during the week and continued to prevail during all dates in the week. Heat wave to sever heat wave conditions observed over Odisha and West Bengal while it was heat wave conditions prevailed over Chhattisgarh on 19<sup>th</sup> & 20<sup>th</sup> April; over Bihar on 20<sup>th</sup> & 21<sup>st</sup> April; over Jharkhand on 21<sup>st</sup> April and over Tamil Nadu during 22<sup>nd</sup>-24<sup>th</sup> April; over Telangana on 18<sup>th</sup> & 19<sup>th</sup> April and over Saurashtra & Kutch on 18<sup>th</sup> April. It may be added that the current Heat wave spell over Odisha started since 15<sup>th</sup> April and over Gangetic West Bengal since 17<sup>th</sup> April and **hence competed 10 and 8 days respectively.**
- **Hailstorm** reported at isolated places over Madhya Maharashtra on 18<sup>th</sup> April; over Telangana on 20<sup>th</sup> & 23<sup>rd</sup> April; over northwest Rajasthan on 20<sup>th</sup> April; over Himachal Pradesh on 20<sup>th</sup> & 24<sup>th</sup> April; over Uttarakhand, Punjab and Haryana on 20<sup>th</sup> April; over Jammu division on 22<sup>nd</sup> April; over West Madhya Pradesh on 22<sup>nd</sup> & 23<sup>rd</sup> April; over Odisha on 22<sup>nd</sup> April; over Vidarbha on 23<sup>rd</sup> & 24<sup>th</sup> April; over Jammu & Kashmir on 23<sup>rd</sup> April; over East Uttar Pradesh on 24<sup>th</sup> April; over Jharkhand on 24<sup>th</sup> April; over Madhya Pradesh on 24<sup>th</sup> April.
- **Temperature Scenario:** The highest maximum temperature of 46.0°C was observed at **Bharagora, dist. East Singhbhum (Jharkhand)** on 21<sup>st</sup> April, 2024 and the lowest minimum temperature of 16.6°C was observed at **Karnal (Haryana)** on 24<sup>th</sup> April, 2024.
- **Analysis of Weekly overall Rainfall distribution during the week ending on 24 April 2024 and Summer Season's Rainfall Scenario (1 March- 24 April 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 24 April was -18%. All India Seasonal cumulative rainfall % departure during this year's **Summer Season's** during **1 March to 24 April 2024** is -14% and over northwest India, it is -8%. 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		
	11.04.2024 TO 17.04.2024			01.03.2024 TO 17.04.2024		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	23.7	31.8	-26%	111.1	153	-27%
NORTH-WEST INDIA	6.8	6.7	+2%	67.8	73.6	-8%
CENTRAL INDIA	2.7	2.3	+17%	29.4	14.8	+99%
SOUTH PENINSULA	6.1	9.1	-33%	15.1	41.2	-63%
Country as a whole	8	9.7	-18%	51.4	60.1	-14%

## 2. Large scale features

Madden Julian Oscillation (MJO) index is currently in Phase 4 with amplitude greater than 1. It will continue in same phase with gradually increasing amplitude during week 1. Thereafter, it would move across phase 5 during first half of week1 and across Phase 6 during later half of week 1. Thus, MJO Phase may support enhancement of convective activity over Bay of Bengal (BoB) till second half of week 1. NCICS based forecasts for zonal winds indicate easterly winds over both the basins i.e., the BoB and the Arabian Sea (AS) during the entire forecast period. Thus, equatorial waves are not likely to contribute to cyclogenesis during entire forecast period.

## 3. Forecast for next two week

### Forecast for next two week

### Weather systems & associated Precipitation during Week 1 (25 April to 01 May, 2024) and Week 2 (02 to 08 May, 2024)

## Weather systems & associated Precipitation during Week 1 (25 April to 01 May, 2024)

- ❖ A Western Disturbance as a cyclonic circulation lies over south Iran in middle & upper tropospheric levels. An induced cyclonic circulation is likely to form over southwest Rajasthan in lower tropospheric levels on 26<sup>th</sup> April, 2024. Under their influence:
  - ✓ Scattered to fairly widespread light to moderate rainfall/snowfall accompanied with **thunderstorm, lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and isolated rainfall over Uttarakhand during 26<sup>th</sup>-28<sup>th</sup> April, 2024 with possibility of **hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26<sup>th</sup> & 27<sup>th</sup> and Himachal Pradesh on 27<sup>th</sup> & 28<sup>th</sup> April, 2024.**
  - ✓ Isolated **Heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 27<sup>th</sup> & 28<sup>th</sup>; over Himachal Pradesh on 27<sup>th</sup> April, 2024.
  - ✓ Isolated rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 Kmph)** very likely over Punjab during 26<sup>th</sup>-28<sup>th</sup> and Haryana-Chandigarh-Delhi on 26 & 27<sup>th</sup>; over Rajasthan and West Uttar Pradesh on 26<sup>th</sup> April, 2024.
  - ✓ Isolated **Hailstorm** very likely over Punjab and Haryana on 26<sup>th</sup> & 27<sup>th</sup> April, 2024.
  - ✓ **Strong surface winds (25-35 Kmph)** very likely to prevail over Uttar Pradesh and south Rajasthan during 25<sup>th</sup>-27<sup>th</sup> April.
- ❖ A cyclonic circulation lies over Marathwada & adjoining Madhya Maharashtra and a trough/wind discontinuity runs from this cyclonic circulation to north coastal Tamil Nadu in lower tropospheric levels. Another cyclonic circulation lies over central parts of south Madhya Pradesh and a trough/wind discontinuity runs from this cyclonic circulation over to South Interior Karnataka in lower tropospheric levels. Under their influence:
  - ✓ Isolated light rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Madhya Maharashtra, Marathwada, Madhya Pradesh, Vidarbha, Chhattisgarh during 25<sup>th</sup>-27<sup>th</sup> April, 2024.
  - ✓ Isolated **Hailstorm** very likely over Vidarbha, south Madhya Maharashtra and Marathwada on 25<sup>th</sup>; over north West Madhya Pradesh on 26<sup>th</sup> & 27<sup>th</sup> and East Madhya Pradesh on 27<sup>th</sup> April, 2024.
  - ✓ Isolated light to moderate rainfall accompanied with isolated **thunderstorm & lightning** very likely over Kerala & Mahe and Coastal Andhra Pradesh & Yanam on 25<sup>th</sup> & 26<sup>th</sup> April, 2024.
- ✓ A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under its influence:
  - ✓ Fairly widespread to widespread light to moderate rainfall/snowfall accompanied with isolated **thunderstorm & lightning & gusty winds (30-50 Kmph)** very likely over Arunachal Pradesh and scattered to fairly widespread rainfall over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during the week.
  - ✓ Isolated light to moderate rainfall accompanied with isolated **thunderstorm & lightning** very likely over Sikkim on 28<sup>th</sup> April, 2024.
  - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya on 28<sup>th</sup> & 30<sup>th</sup> April and 1<sup>st</sup> May, 2024

### Rainfall for week 2 (02 to 08 May, 2024):

- ✓ No significant weather is likely over any parts of the country except northeast India, where light to moderate rainfall/thunderstorm likely to occur during many days of the week.
- ✓ Overall, rainfall activity is likely to be below normal over all the homogenous regions of India during the week.

### Maximum temperatures for Week 1 (25 April to 01 May, 2024) and Week 2 (02 to 08 May, 2024)

- **Areas likely to experience Heat wave during Week 1 (25 April to 01 May, 2024): and Week 2 (02 to 08 May, 2024) enclosed in terms of PROBABILITY OF HEATWAVE CONFIDENCE in form of a figure at Annexure V.**

### Maximum temperatures for Week 1 (25 April to 01 May, 2024):

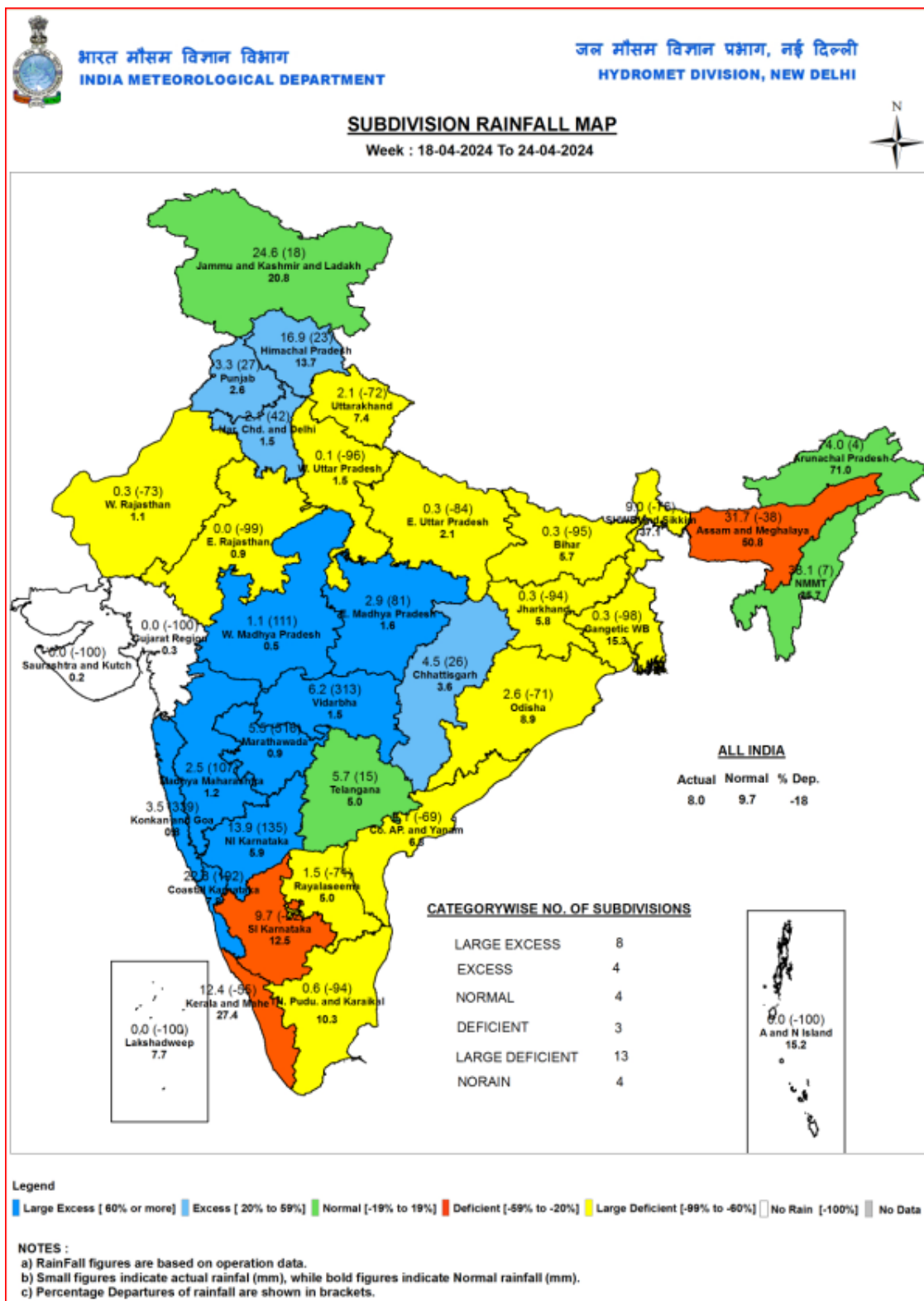
- ❖ Yesterday, maximum temperatures were in the range of 42-44°C over many parts of Rayalaseema; in some parts of Coastal Andhra Pradesh & Yanam, Telangana, Odisha and Gangetic West Bengal and in isolated pockets over Tamil Nadu, Puducherry & Karaikal and Jharkhand. These were in the range of 40-42°C over many parts of Bihar, East Uttar Pradesh; some parts of Gujarat; in isolated pockets over interior Karnataka, interior Maharashtra, West Rajasthan, Madhya Pradesh and West Uttar Pradesh. These were above normal by 3-5°C over many parts of West Bengal & Sikkim; at isolated pockets over Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh.
- ❖ Rise by about 2°C in maximum temperatures very likely over many parts of Northwest India during next 2 days and fall by 2-3°C for subsequent 3 days and again rise by 2-4°C thereafter.
- Rise by 2-3°C in maximum temperatures very likely over East India and Maharashtra during 1<sup>st</sup> half of the week and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country during most days of the week.

### Heat Wave, Warm Night and Hot & Humid weather warning:

- ❖ **Heat Wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal, in some parts over Odisha and in isolated pockets over Sub-Himalayan West Bengal during the week. **Heat wave conditions** in isolated pockets over Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, East Uttar Pradesh during most days of the week and West Uttar Pradesh during 26<sup>th</sup>-29<sup>th</sup>; Konkan during 27<sup>th</sup>-29<sup>th</sup> April.
- ❖ **Hot and humid weather** very likely to prevail over Tripura, Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal during most days of the week; Assam & Meghalaya during 25<sup>th</sup>-28<sup>th</sup>; Konkan & Goa on 25<sup>th</sup> & 26<sup>th</sup> April, 2024.
- ❖ **Warm night** very likely to prevail over Odisha during 27<sup>th</sup>-29<sup>th</sup> April, 2024.

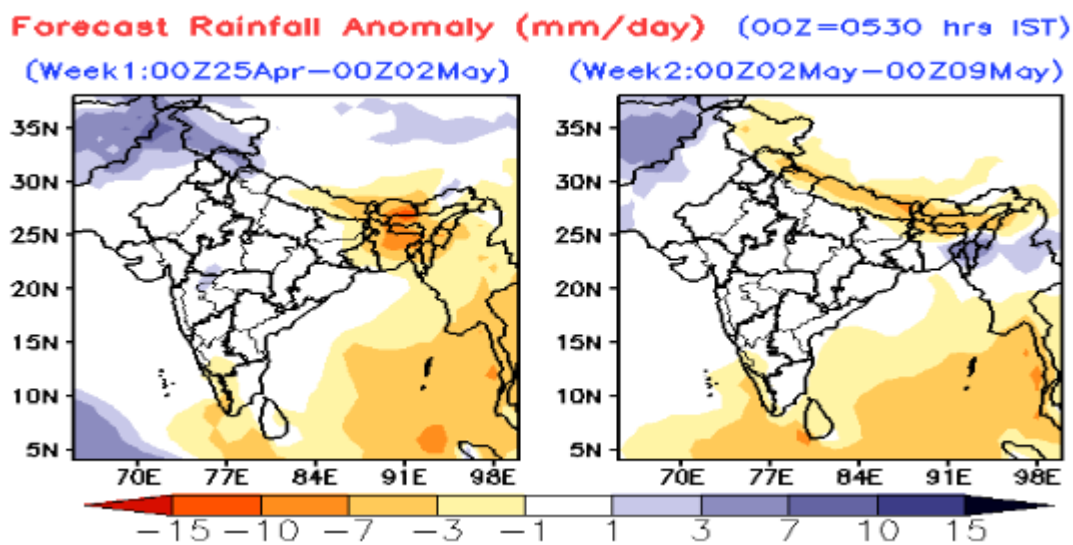
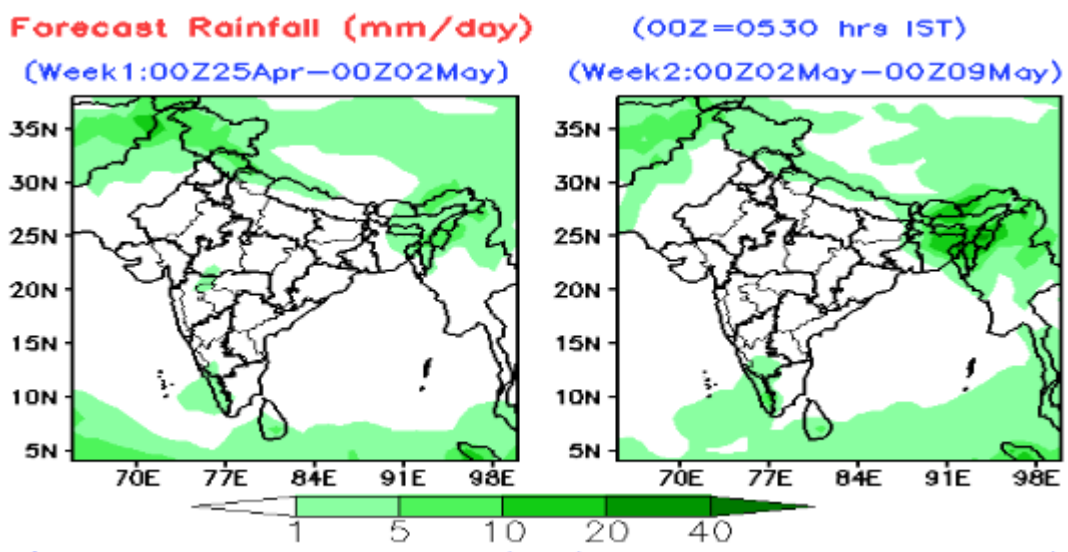
### Maximum temperatures for Week 2 (02 to 08 May, 2024):

- Maximum temperatures are likely to rise gradually over most parts of the country as compared to week 1. These are very likely to be above normal by 2-4°C over east & northeast India, remaining parts of along the east coast and many parts along the west coast. These are likely to be near normal over remaining parts of the country.
- **There is moderate probability of heat wave over isolated/some pockets of East Uttar Pradesh, Bihar, East Jharkhand, West Bengal, Odisha, south Chhattisgarh, Telangana, Coastal Andhra Pradesh, Rayalaseema and Interior Karnataka during some days of the week; and there is low probability of Heat Wave over Tamilnadu, West coast, Gujarat and Rajasthan on one or two days of the week (Annexure III).**
- **Hot and humid weather likely to prevail over isolated pockets of Maharashtra & Karnataka Coast, Tamilnadu and Kerala during many days of the week.**



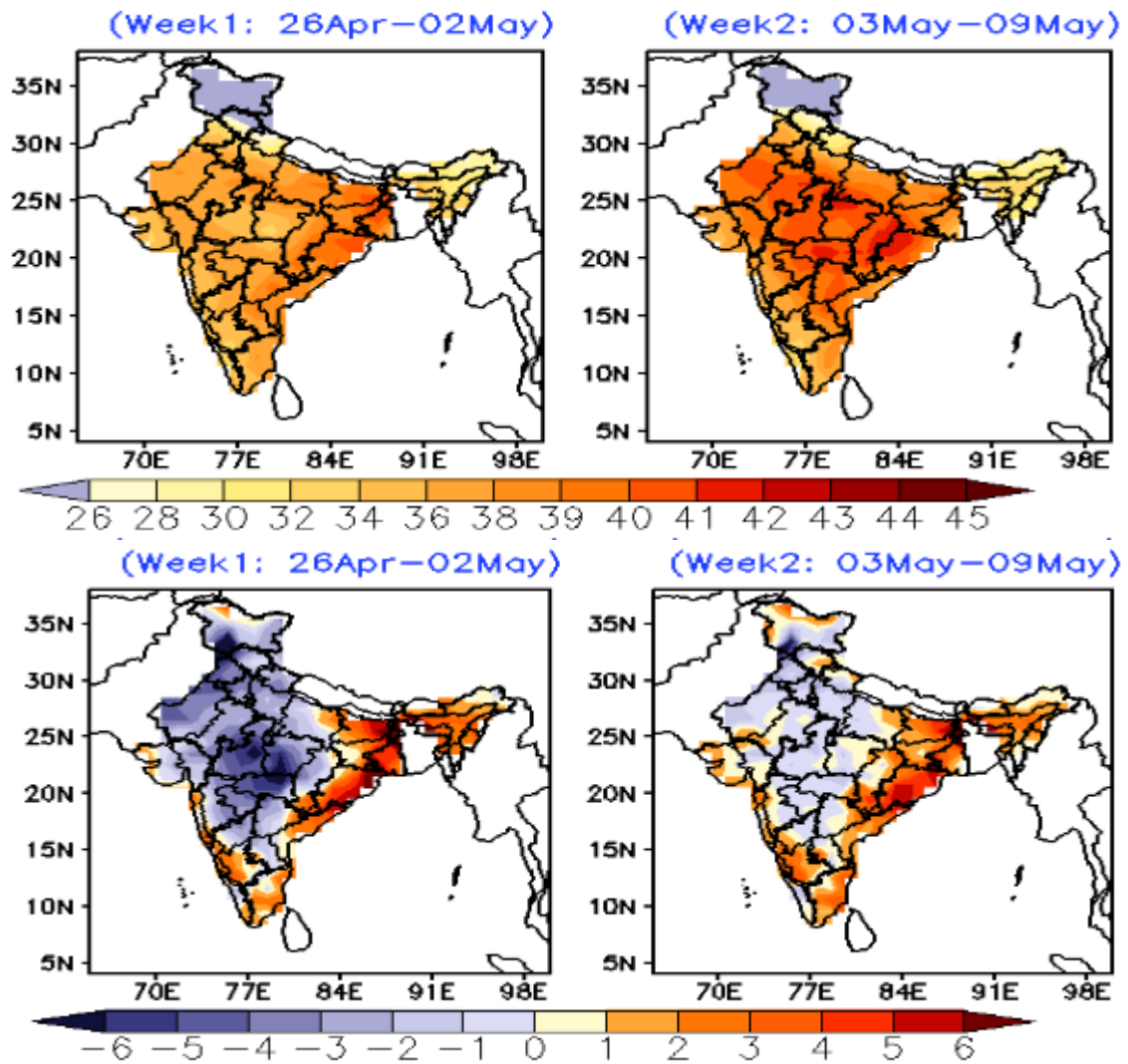






Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panels) from IMD MME



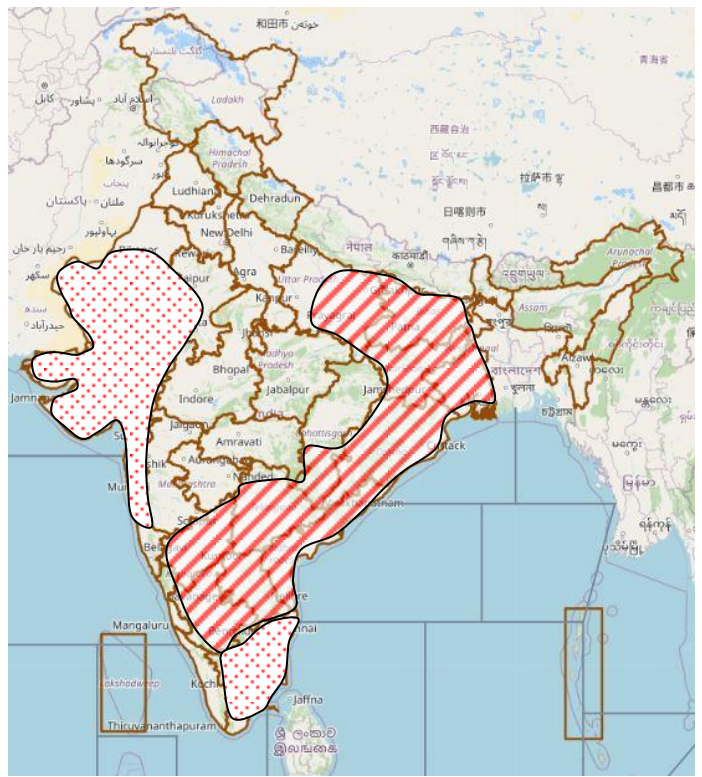


Extended range forecast of Maximum Temperature (top panel) and anomalies(lower panels) from IMD MME

**EXTENDED RANGE OUTLOOK FOR HEATWAVE**

**Week 1: 26.04.2024 - 02.05.2024**

**Week 2: 03.05.2024 - 09.05.2024**



**PROBABILITY OF HEATWAVE**

**CONFIDENCE**

**LOW (1-33% PROBABILITY)**



**MODERATE (34-67% PROBABILITY)**



**HIGH (68-100% PROBABILITY)**

