



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

Press: Dated: 13th April, 2023

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(13-26 April 2023)**

1. Salient Observed Features for week of 12th April 2023

- Sub-dued rainfall activities observed over most parts of the country during 2nd half of the week (mainly during 9-12 April) leading to rise in day temperatures. Heat wave conditions developed in isolated pockets of Gangetic West Bengal on 12th April 2023. On 12th April, the maximum temperature was at the range of 39 to 43 degC, over some pockets of east central India including over Odisha and Gangetic West Bengal while it is of 38-41 degC over Telangana, south Coastal Andhra Pradesh, interior Maharashtra and east Uttar Pradesh, Bihar and Gujarat State, which were above normal by 1-3degC.
- **Analysis of Weekly overall Rainfall distribution during the week ending on 12 April 2023 and Pre-monsoon Season's Rainfall Scenario (1 March-12 April 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 12 April 2023 was -66%, over south Peninsula as -50%, central India as +129% and northwest India had -87 % while all India Seasonal cumulative rainfall %departure during this year's **Pre-monsoon Season's Rainfall** during **1 March-12 April 2023** is +19% and over northwest India, it is -6%. 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		
	06.04.2023 TO 12.04.2023			01.03.2023 TO 12.04.2023		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	3.5	25.5	-86%	97.4	103.2	-6%
NORTH-WEST INDIA	1	7.5	-87%	57.2	60.6	-6%
CENTRAL INDIA	3.9	1.7	+129%	32.2	10.8	+198%
SOUTH PENINSULA	3.2	6.4	-50%	41	25.4	+62%
Country as a whole	2.8	8.2	-66%	52	43.7	+19%

2. Large scale features

- Currently, ENSO-neutral conditions prevailing over the equatorial Pacific region. Also, neutral IOD conditions are present over the Indian Ocean and the latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue during the pre-monsoon season.
- The Madden Julian Oscillation (MJO) Index is currently in Phase 7 with amplitude > 1. It will continue in same phase till end of the week 1. Thereafter, it will move to phase 8 around 19 April in the beginning of the week 1 with decreasing amplitude. It is likely to remain in Phase 8 during 1st half of the week 2 and then move to Phase 1 towards beginning of the 2nd half of the week 2. It will remain in Phase till end of the week 2 with amplitude < 1.

3. Forecast for next two week

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (13 to 19 April, 2023) and Week 2 (20 to 26 April, 2023)

Forecast for week 1 (13 to 19 April, 2023):

- ✓ A trough/wind discontinuity runs from east Vidarbha to north coastal Karnataka at lower tropospheric levels.
- ✓ A cyclonic circulation lies over southwest Rajasthan in lower tropospheric levels.
- ✓ A fresh Western Disturbance is likely to affect Western Himalayan Region from 15th April, 2023.

- ✓ **Under the influence of above synoptic features, following weather is expected:**

Northwest India:

- Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; isolated to scattered rainfall with thunderstorm/lightning over Himachal Pradesh & Uttarakhand during 15th-19th April.
- Isolated light rainfall over Punjab & Haryana during 17th to 19th April, 2023.
- Strong surface winds (25-35 kmph) very likely over Uttar Pradesh on 13th April, 2023.

West India:

- Light/moderate isolated rainfall with thunderstorm/lightning very likely over Konkan & Goa, Madhya Maharashtra and Marathawada during the week. Isolated hailstorm activity very likely over Madhya Maharashtra & Marathawada on 13th & 14th and over south Konkan & Goa on 13th April, 2023.

East India:

- No significant weather over the region during the week except light isolated rainfall with thunderstorm/lightning/gusty winds over Odisha during 2nd half of the week.

Northeast India:

- Light isolated to scattered rainfall very likely over Arunachal Pradesh during the week and over Assam & Meghalaya during 2nd half of the week.

South India:

- Light isolated rainfall with isolated thunderstorm very likely over Kerala and Karnataka during the week and over Coastal Andhra Pradesh, Telangana and Tamil Nadu during 2nd half of the week.

Rainfall for week 2 (20 to 26 April, 2023):

- ✓ **Under the influence of Western Disturbance, isolated to scattered rainfall with thunderstorm likely over Western Himalayan Region and northeastern states during many days of the week.**
- ✓ **Due to trough/cyclonic circulation, isolated to scattered rainfall with thunderstorm likely over many parts of south Peninsula and central India during many days of the week.**
- ✓ **Overall, rainfall activity is likely to be above normal over northwest, central & south Peninsular India and below normal over northeast & adjoining east India.**

Maximum Temperatures and its forecast during Week 1 (13 to 19 April, 2023) and Week 2 (20 to 26 April, 2023):

Maximum Temperature Forecast for week 1 (13 to 19 April, 2023):

- **Maximum temperatures** are in the range of 40-42°C over parts of central & north peninsular India. These are above normal by 3-5°C over many parts of Western Himalayan region and Northeast India, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, Kerala & Mahe.
- **Maximum Temperatures** are very likely to be above normal by 3-5°C over Northeast India, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, Kerala & Mahe and

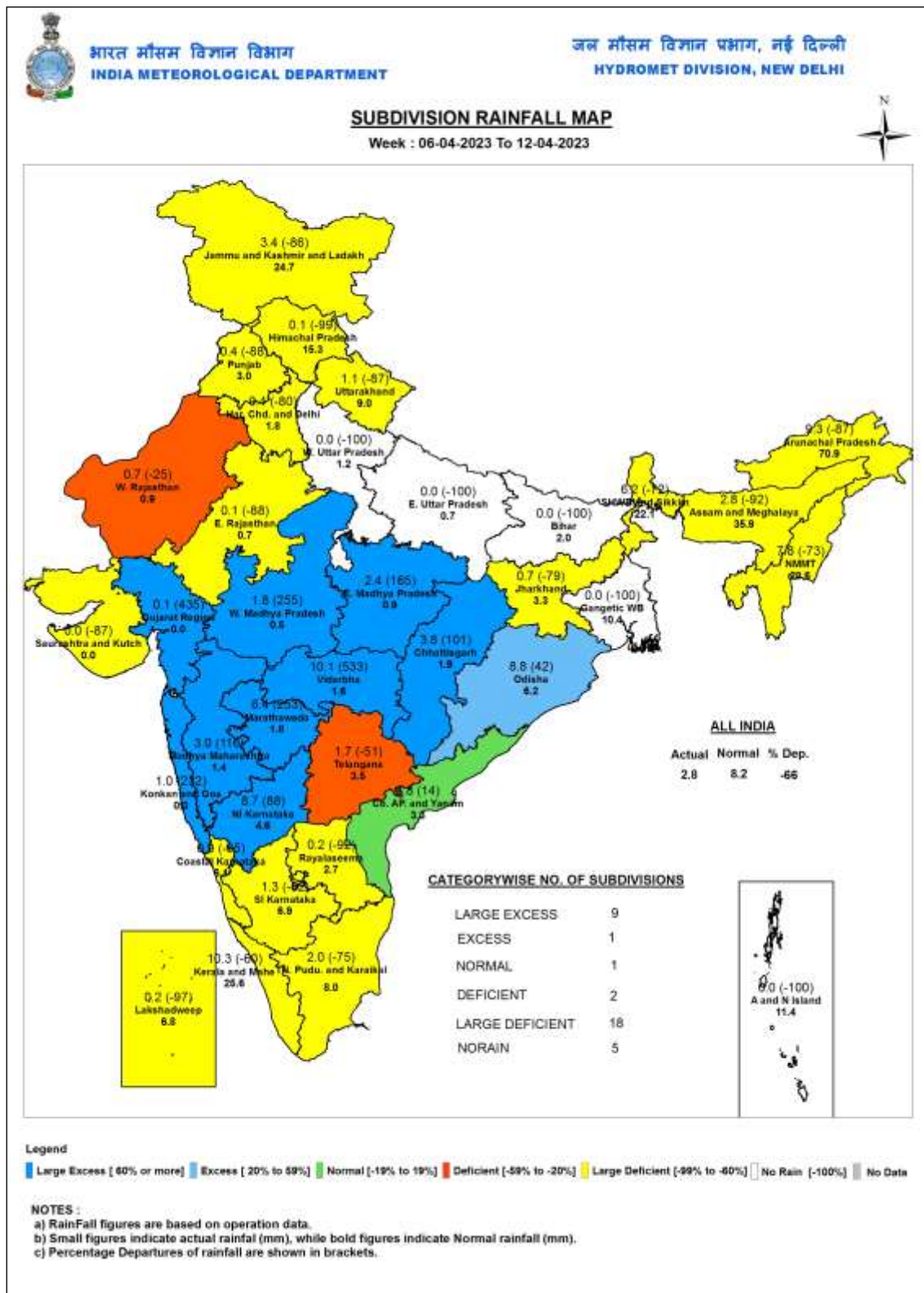
Madhya Pradesh during most days of the week. These are likely to be above normal by 1-3°C over most parts of rest parts of the country.

- **Heat wave conditions very likely in isolated pockets over Gangetic West Bengal during 13th-17th; over north coastal Andhra Pradesh & Odisha during 13th-15th April and over Bihar during 15th-17th April, 2023.**

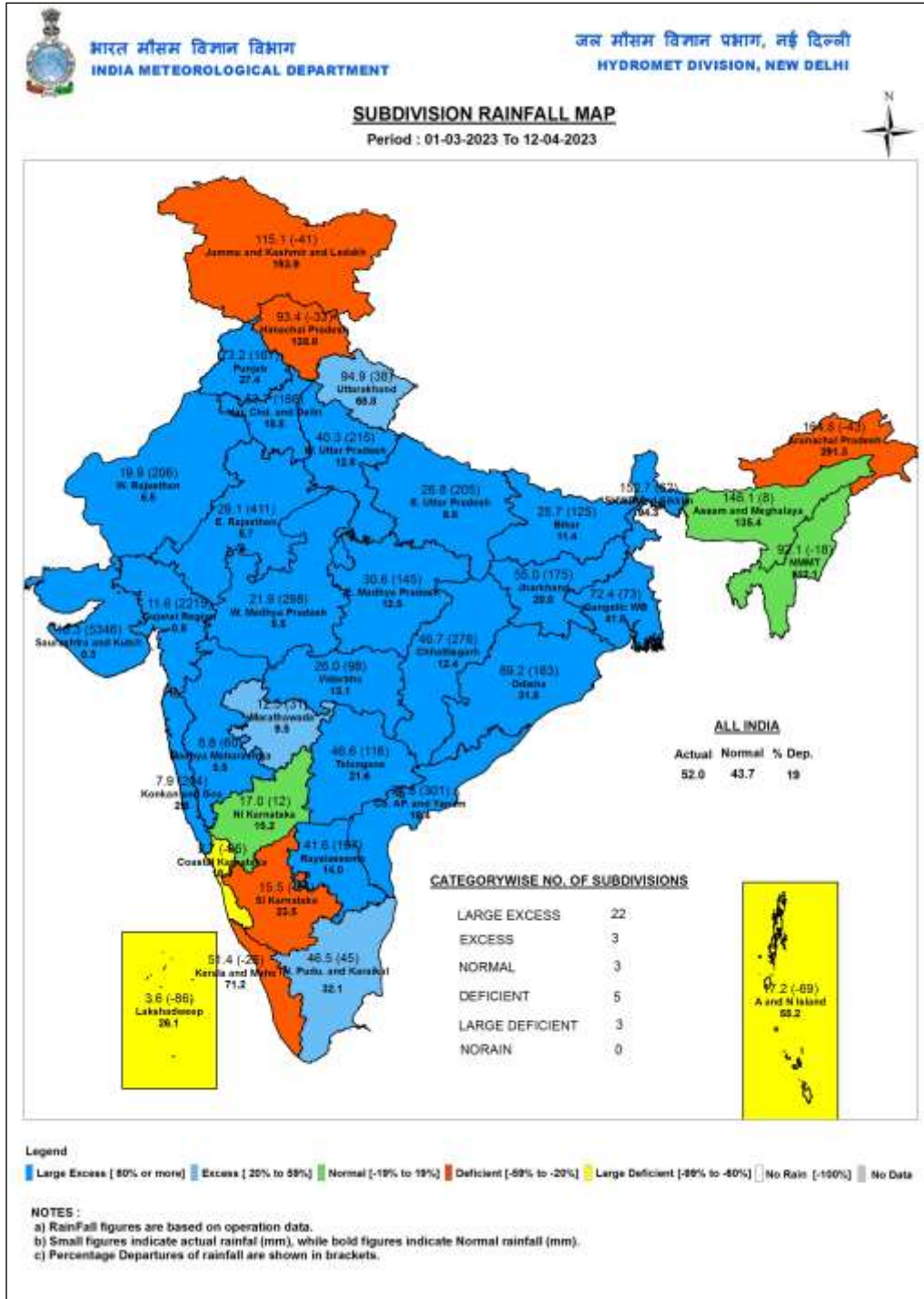
Maximum Temperature for week 2 (20 to 26 April, 2023):

- Maximum temperatures likely to fall gradually by 2-3° C over most parts of the country as compared to week 1. These are likely to below normal by 2-3° C over most parts of India except northeast India, Bihar, West Bengal, Odisha and north Coastal Andhra Pradesh, where it is likely to be normal to above normal.
- **Isolated heat wave conditions likely over parts of Bihar, West Bengal, Odisha and north Coastal Andhra Pradesh during some days of the 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



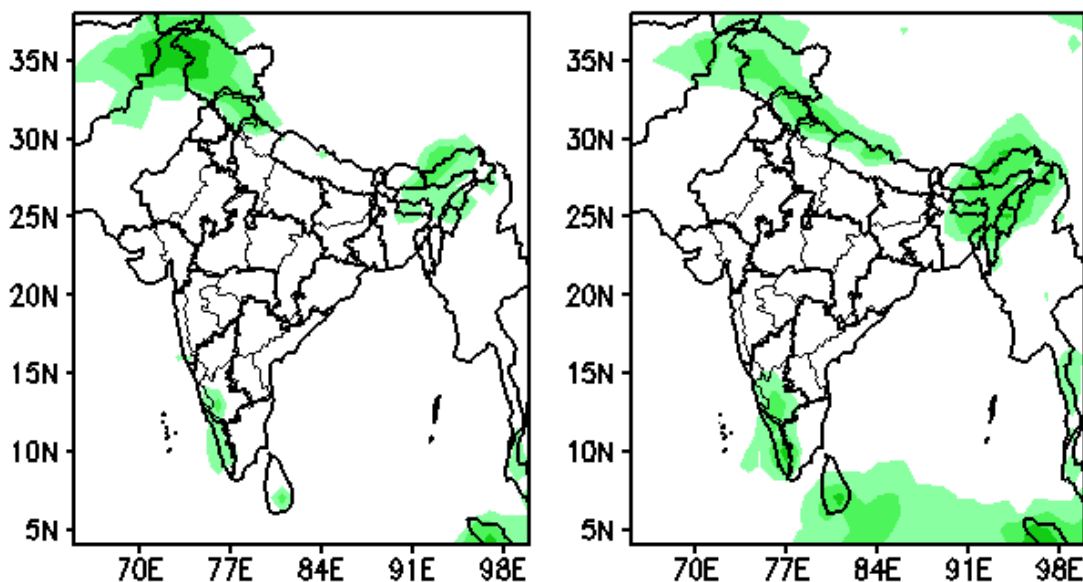
Annex: II



Forecast Rainfall (mm/day)

(Week1: 14Apr-20Apr)

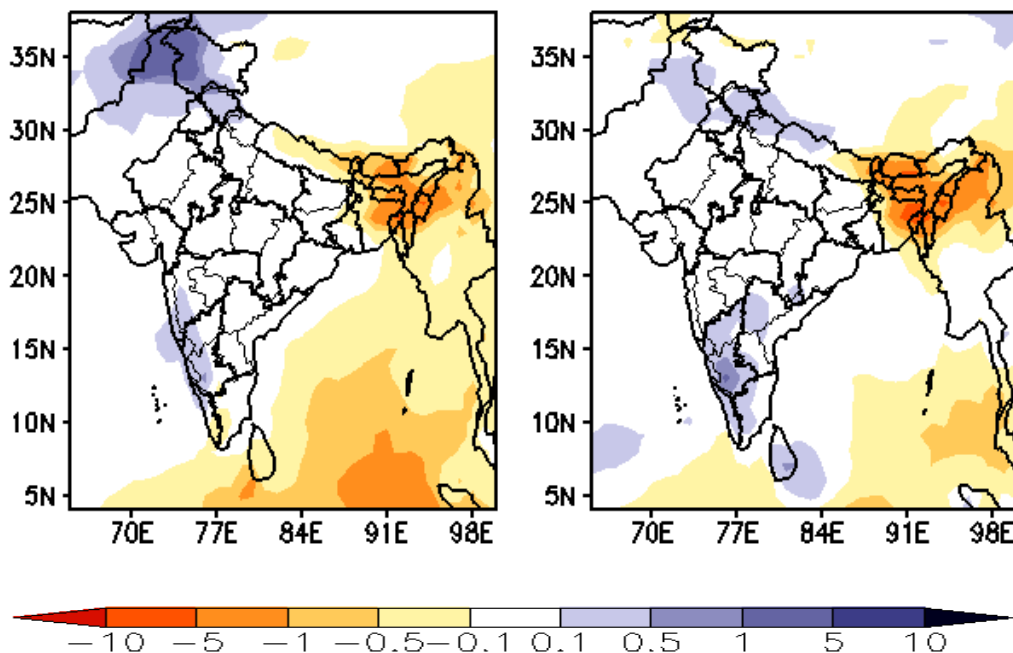
(Week2: 21Apr-27Apr)



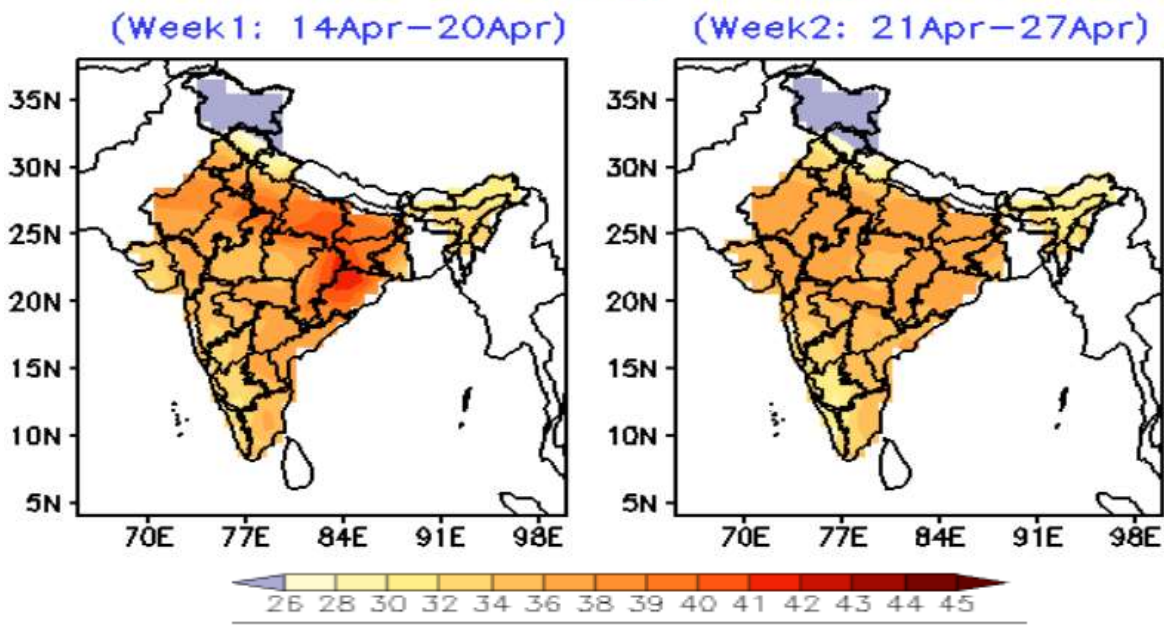
Forecast Rainfall Anomaly (mm/day)

(Week1: 14Apr-20Apr)

(Week2: 21Apr-27Apr)



MME Bias corrected forecast Tmax (Deg)



MME forecast Tmax anomaly (Deg C)

