



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

Press: Dated: 28 April, 2022

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(28 April-10 May 2022)**

1. Salient Features for week ending on 27 April 2022

- Under the influence of trough/wind discontinuity from Central India to South Peninsula in the lower tropospheric levels which persisted almost throughout the week had caused scattered to fairly widespread rainfall/thunderstorm activity over Kerala & Mahe, isolated rainfall/thunderstorm activity over remaining parts of south Peninsula on most of the days of the week; isolated heavy rainfall had occurred over Kerala & Mahe on one days and over Tamil Nadu, Puducherry & Karaikkal on 2 days during 22-24 April and it was reduced significantly thereafter.
- Under the influence of troughs in lower tropospheric levels, scattered to fairly widespread rainfall/thunderstorm activity over Assam and Meghalaya and Arunachal Pradesh during most of the days in the week and isolated heavy rainfall activity also had been reported over northeast India till 24th April.
- Movement of two Western Disturbances had caused isolated to scattered rainfall/thunderstorm activity over Western Himalayan Region during 20-23 and during 24-26 April except Kashmiri areas reported fairly widespread to widespread rainfall/thunderstorm activity during the same period. There were reports of dust rising winds and dust storms for one to two days from impacts of each these two WD during corresponding period over Rajasthan and other plains of northwest India including Delhi.
- **Heavy rain:** Heavy rainfall at isolated places had occurred over Northeast India for 3 days till 20th April and over Tamil Nadu, Puducherry & Karaikkal and Kerala & Mahe for 2 days during 23-24 April and over Kerala for 1 day on 24th April.
- **Temperature Scenario: Heatwave:** Severe heat wave had prevailed at isolated pockets over Saurashtra & Kutch on one day and heat wave prevailed at isolated pockets over Bihar and Gangetic West Bengal on three days; over Gujarat state on two days and over West Rajasthan, Sub-Himalayan West Bengal, Odisha and Vidarbha on one day during the week.
- The highest maximum temperature of **45.6°C** had been recorded had been recorded **at Rajgarh (West Madhya Pradesh) on 27th April 2022** and the lowest minimum temperature of **13.5 °C** had been recorded **at Pantnagar (Uttarakhand) on 25th April 2022** over the plains of the country during the week.

- **Weekly overall Rainfall distribution during the current week ending on 27 April 2022 Pre-monsoon Season's Rainfall Scenario (01 March to 27 April, 2022):** During the week ending on 27 April 2022, for the country as a whole, the weekly cumulative All India Rainfall departure from its long period average (LPA) was -61% with weekly cumulative over northwest India as -100%, while all India cumulative rainfall during this year's **Pre-monsoon Season's Rainfall Scenario (01 March to 27 April, 2022)** is below LPA by -31% and over northwest India, it is above LPA by -87%. 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		
	21.04.2022 TO 27.04.2022			01.03.2022 TO 27.04.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	3.1	5.0	-37	185.1	171.2	+8
NORTH-WEST INDIA	0.0	1.1	-100	9.9	76.0	-87
CENTRAL INDIA	0.0	0.3	-85	4.9	16.3	-70
SOUTH PENINSULA	0.4	1.4	-73	54.9	43.9	+25
country as a whole	0.6	1.5	-61	45.0	64.8	-31

2. Large scale features

- Currently, La Niña conditions are prevailing over the equatorial Pacific region. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates that La Niña conditions are likely to continue throughout the Month. Other climate models are also indicating enhanced probability for La Niña conditions likely during summer season. At present, neutral Indian Ocean Dipole(IOD) conditions are present over the Indian Ocean and the latest MMCFS forecast indicates that the

neutral IOD conditions are likely to continue during summer season. As the changes in the sea surface temperature (SST) conditions over the Pacific and the Indian Oceans are known to influence the Indian climate, IMD is carefully monitoring the evolution of sea surface conditions over these Ocean basins.

➤ The Madden Julian Oscillation Index (MJO) currently lies in phase 5 with amplitude less than 1 and would continue in same phase during next 2 days. It is likely to move across phases 6, 7 & 8 during remaining part of the forecast period. Hence, MJO will support enhancement of convective activity over the Bay of Bengal (BoB) during first half of week 1.

3. Forecast for next two week

[Weather systems & associated Precipitation during Week 1 \(28 April to 04 May, 2022\) and Week 2 \(05 to 11 May, 2022\)](#)

Forecast for week 1 (28 April to 04 May, 2022):

- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels, rainfall intensity is likely to increase over the region from 29th April :
 - ✓ Fairly widespread/widespread rainfall with thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph) very likely over Arunachal Pradesh, Assam-Meghalaya and scattered/fairly widespread rainfall over Nagaland-Manipur-Mizoram-Tripura & Sub-Himalayan West Bengal-Sikkim during most days of the week.
 - ✓ **Isolated heavy rainfall very likely over Arunachal Pradesh on 30th and over Assam-Meghalaya during 30th April-02nd May.**
- Under the influence of a Western Disturbance as a trough in mid & upper tropospheric westerlies along Long. 55°E & to the north of Lat. 28°N: light/moderate isolated rainfall accompanied with thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph) very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 28th-30th & Himachal Pradesh during next 5 days and over Uttarakhand during 29th April-01st May. Isolated hailstorm also likely over Uttarakhand during 29th April-02nd May 2022.
- Duststorm very likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan on 30th April.

- Under the influence of another fresh Western Disturbance likely to affect Northwest India from 02nd May, 2022:
 - ✓ Light/moderate isolated/scattered rainfall accompanied with thunderstorm/lightning likely over Western Himalayan Region during 02nd-04th May.
 - ✓ Isolated light rainfall likely over plains of northwest India during 03rd-04th May.
 - ✓ Due to trough/wind discontinuity over peninsular India in lower tropospheric levels, isolated to scattered rainfall with thunderstorm/lightning very likely over Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Telangana during the week.
- Dry weather very likely over remaining parts of the country during most days of the week.

Rainfall for week 2 (05 to 11 May, 2022):

- Due to trough over east India and strong southwesterly winds from Bay of Bengal to northeastern states at lower tropospheric levels, light to moderate scattered to fairly widespread rainfall with thunderstorm activity is very likely to continue over northeast & adjoining East India during many days of the week.
- Due to trough/wind discontinuity over south Peninsula India, light/moderate isolated to scattered rainfall along with thunderstorm is likely over extreme south Peninsular India during most days of the week.
- **Overall, rainfall activity is likely to be normal to above normal over east India and parts of northeastern states and below normal over rest parts of the country.**

Maximum Temperatures for week 1(28 April to 04 May, 2022) and week 2(05 to 11 May, 2022)

Maximum Temperatures for Week 1(28 April to 04 May, 2022):

- **Maximum Temperatures (as on 27/04/2022)** were 43-45°C over most parts of West Rajasthan, Vidarbha, Madhya Pradesh & East Uttar Pradesh; in some parts of East Rajasthan, Saurashtra-Kutch, interior Gangetic West Bengal & Madhya Maharashtra and in isolated pockets of Gujarat Region, Bihar, Jharkhand, northern Odisha, Chhattisgarh, Marathwada & northern parts of Telangana and Rayalaseema and 40-43°C over most parts of Haryana-Delhi, Punjab, West Uttar Pradesh, remaining parts of Gangetic West Bengal; in remaining parts of Telangana, remaining parts of East Rajasthan & remaining parts of Gujarat Region and in isolated pockets of remaining parts of Rayalaseema.

- Rise by about 2°C in maximum temperatures very likely over most parts of Northwest India during next 2 days and no significant change thereafter.
- No significant change in maximum temperatures very likely over most parts of East India during 1st half of the week and fall by about 2-3°C thereafter.
- No significant change in maximum temperatures very likely over rest parts of the country.
- Heat Wave conditions in isolated pockets over West Rajasthan during 28th-30th April with Severe Heat Wave Conditions on 01st-02nd May;
- Heat Wave conditions in some/isolated parts over
 - ✓ Vidarbha, West Uttar Pradesh, Madhya Pradesh, Punjab, Haryana-Chandigarh-Delhi & East Rajasthan during next 5 days;
 - ✓ East Uttar Pradesh during 28th April-01st May, Bihar, Jharkhand, interior Odisha, Chhattisgarh & Gangetic West Bengal during 28th-30th April;
 - ✓ Telangana during 28th April-01st May;
 - ✓ Gujarat State on 28th April, 2022.

Maximum Temperatures for week 2 (05 to 11 May, 2022):

- **No significant change in maximum temperatures likely over most parts of the country as compared to week 1.**
- However, these are likely to be above normal by 2-4°C over many parts of northwest India and along East Coast. It is likely to be below normal to near normal over rest parts of India.
- **Heat wave at isolated pockets likely over northwest & adjoining central India and over Odisha, Coastal Andhra Pradesh during some days of the week..(Refer Annex V)**

4. Cyclogenesis forecast for North Indian Ocean during next 2 weeks

Refer

https://rsmcnewdelhi.imd.gov.in/uploads/archive/24/24_25ad55_Extended%20Range%20Outlook_28042022.pdf

Next weekly update will be issued on next Thursday i.e. 5 May April 2022

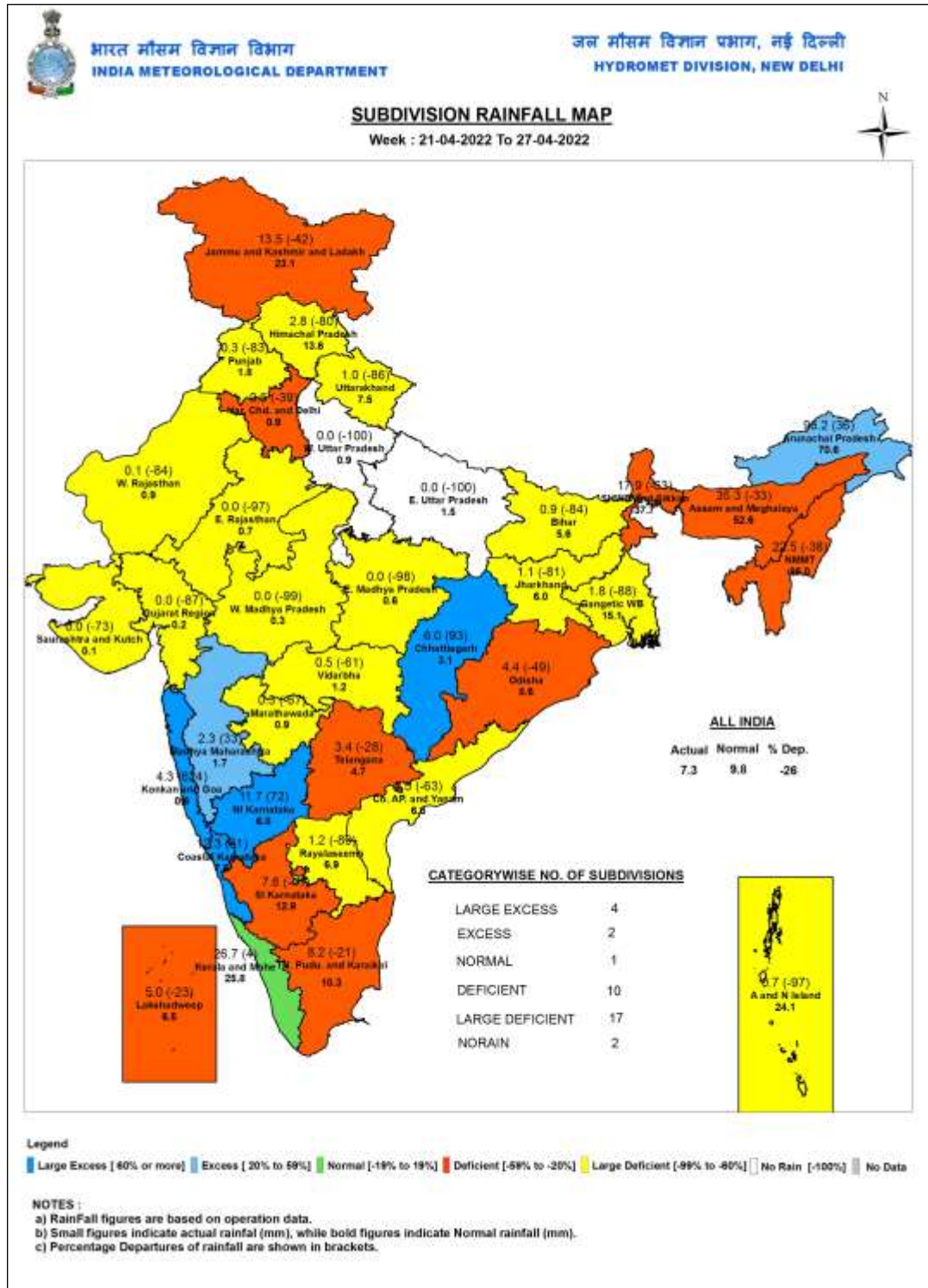
Legends: Heavy Rain: 64.5 to 115.5 mm **Very Heavy Rain:** 115.6 to 204.4 mm, **Extremely Heavy Rain** > 204.4 mm

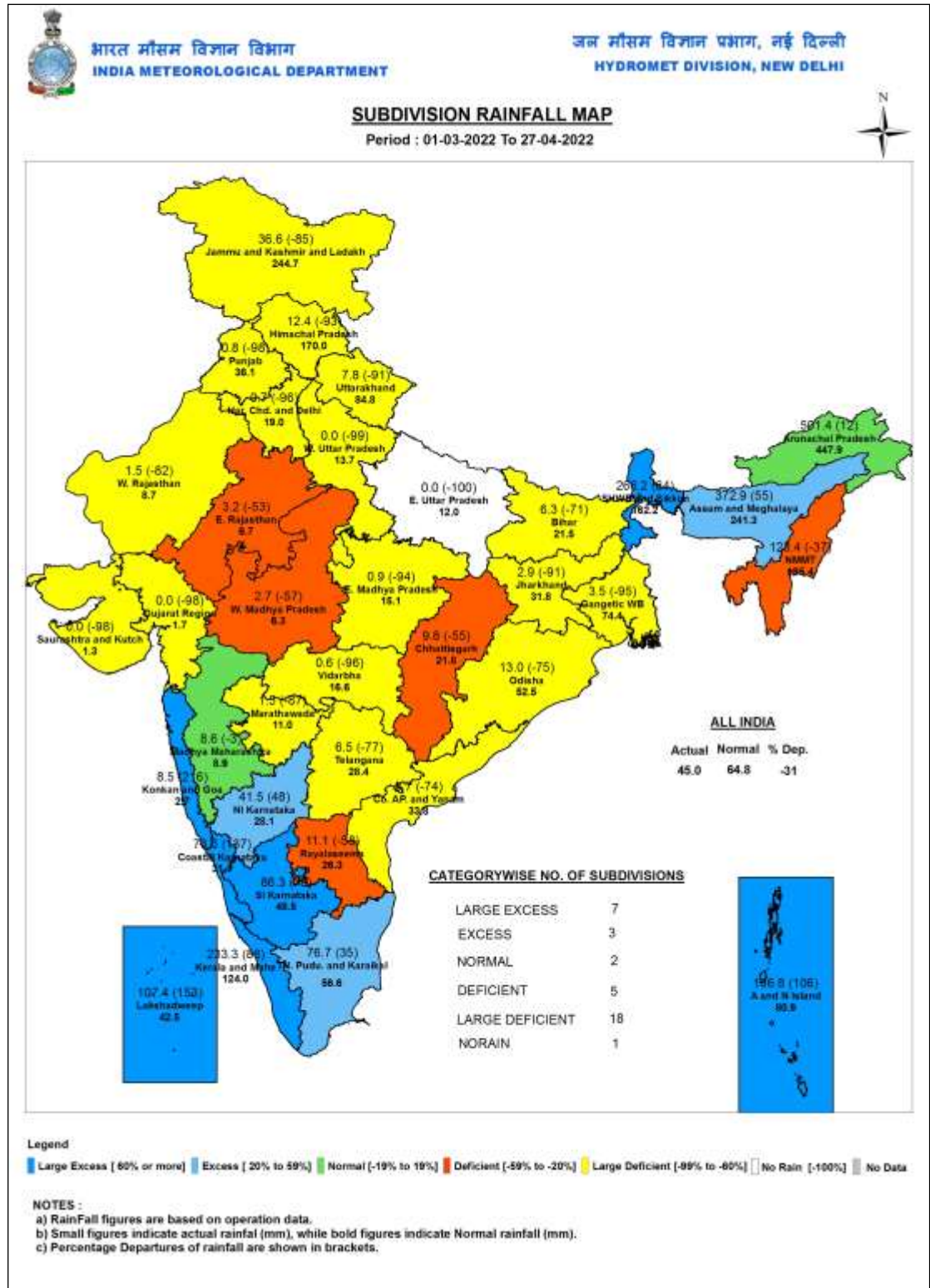
SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

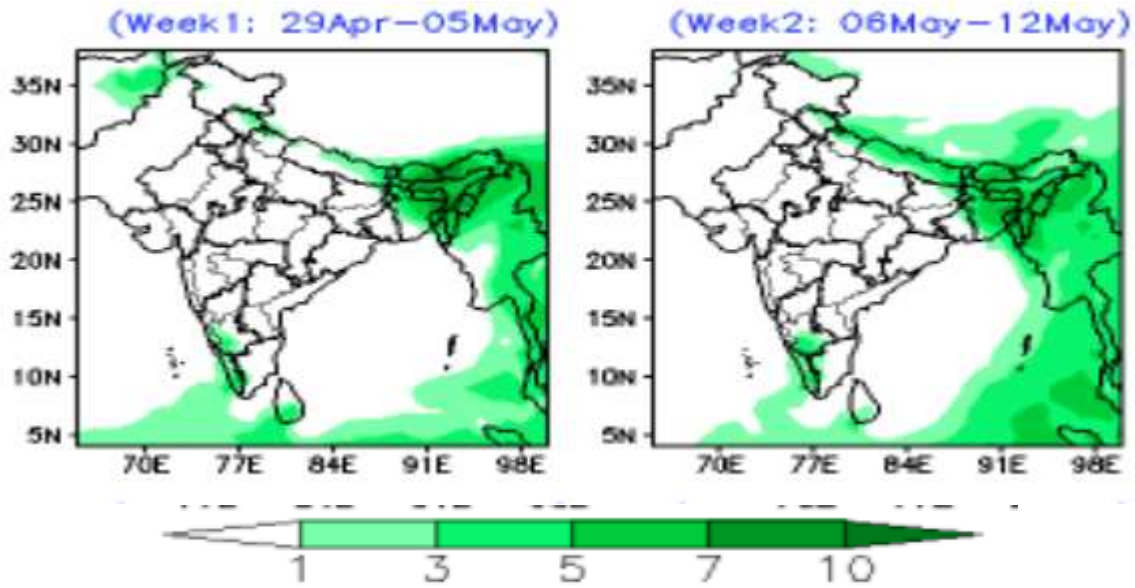
Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

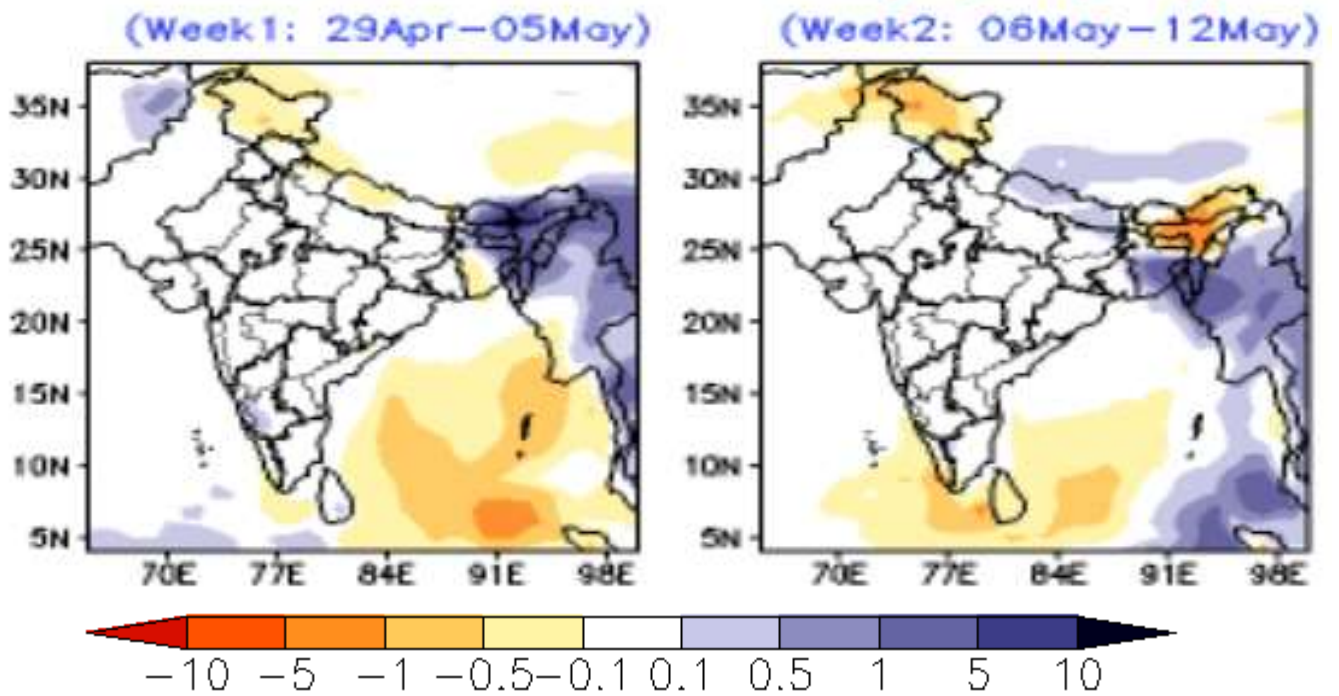




Annexure III



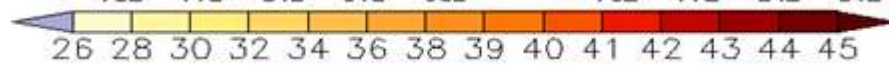
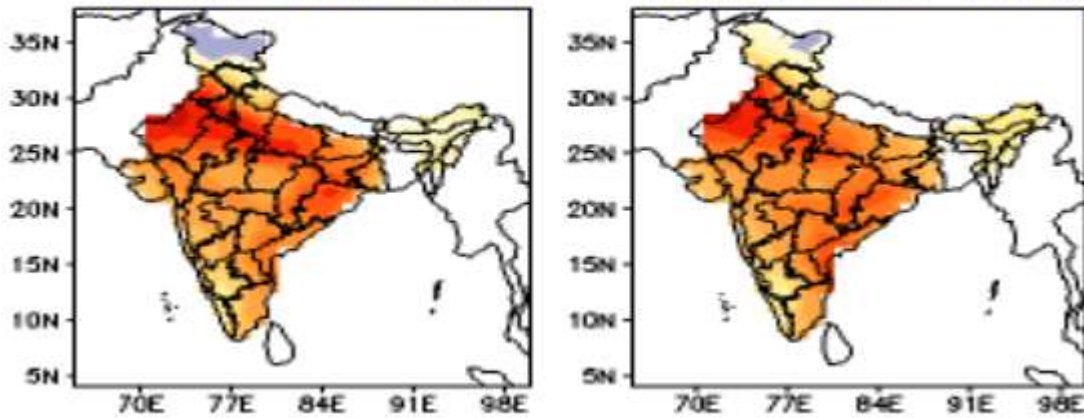
Forecast Rainfall Anomaly (mm/day)



MME Bias corrected forecast Tmax (Deg)

(Week1: 29Apr-05May)

(Week2: 06May-12May)



MME forecast Tmax anomaly (Deg C)

(Week1: 29Apr-05May)

(Week2: 06May-12May)

