



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

Press: Dated: 12 May, 2022

**Subject: Current Weather Status and Extended Range Forecast for next two weeks
(12-25 May 2022)**

1. Salient Features for week ending on 12 May 2022

- Formation and movement of cyclonic storm 'ASANI' over Bay of Bengal during 07th to 12th May has caused fairly widespread to widespread rainfall/thunderstorm activity had occurred over Andaman & Nicobar Islands throughout the week along with isolated heavy/very heavy rainfall activity reported on one or two days; isolated thundersquall also had been reported over the Islands on one day during the week; reaching close to the Andhra Pradesh coast, this system had caused fairly widespread to widespread rainfall/thunderstorm activity over Coastal Andhra Pradesh & Yanam and Rayalseema towards the end of the week along with isolated heavy rainfall over these areas. For details about its genesis, intensity, track and associated severe weather and why the system has unique characteristic in terms of its direction of movement on 11 and 12 May 2022 when reached near coast pls refer: https://rsmcnewdelhi.imd.gov.in/uploads/archive/21/21_611dcd_ASANI-Brief%20Report.pdf
- Movement of a Western Disturbances during 1st half of the week had caused widespread rainfall/thunderstorm activity over Jammu Kashmir & Ladakh on a single day and isolated to scattered rainfall/thunderstorm activity on three to four days during the week; movement of these systems along with convergence of moist southeasterlies over the region had caused isolated to scattered rainfall/thunderstorm activity over remaining parts of Western Himalayan Region also on many days during the week; isolated hailstorm activity also had been reported from Western Himalayan Region on one or two days along with. This WD in together with lower Troughs/ cyclonic circulations in the lower tropospheric levels had caused isolated to scattered rainfall/thunderstorm activity over plains of Northwest India and adjoining areas of Madhya Pradesh on two to three days during 1st half of the week.
- **Temperature Scenario: Heat wave: Heat wave conditions at most places** had occurred over West Rajasthan on two days; **at many places** over West Rajasthan on one day; **at a few places** over West Rajasthan and West Madhya Pradesh on one day each; **at isolated places** over West Madhya Pradesh on three days, over Vidarbha on two days; over East & West Rajasthan and southern parts of Saurashtra & Kutch on one day each during the week.

- The highest maximum temperature of **46.5°C** had been recorded at **Barmer (West Rajasthan)** on **11th May 2022** and the lowest minimum temperature of **17.2°C** had been recorded at **Meerut (West Uttar Pradesh)** on **5th May 2022** over the plains of the country during the week.
- **Weekly overall Rainfall distribution during the current week ending on 11 May 2022 Pre-monsoon Season's Rainfall Scenario (01 March to 11 May, 2022):** During the week ending on 11 May 2022, for the country as a whole, the weekly cumulative All India Rainfall departure from its long period average (LPA) was -3% with weekly cumulative over northwest India as -28%, while all India cumulative rainfall during this year's **Pre-monsoon Season's Rainfall Scenario (01 March to 11 May, 2022)** is below LPA by **-25%** and over northwest India, it is above LPA by **-78%**. 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		
	05.05.2022 TO 11.05.2022			01.03.2022 TO 11.05.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	25.0	37.3	-33	245.5	247.4	-1
NORTH-WEST INDIA	5.7	7.9	-28	20.0	91.6	-78
CENTRAL INDIA	2.9	3.7	-22	10.1	23.0	-56
SOUTH PENINSULA	26.9	14.1	+91	93.4	69.1	+35
Country as a whole	12.0	12.4	-3	67.1	88.9	-25

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 6 with amplitude more than 1. It would move eastwards to phase 7 during later part of week 1 and would continue in same phase during rest part of the forecast period. Hence, MJO will not support any convective activity over the North Indian Ocean (NIO) including the Bay of Bengal (BoB) and the Arabian Sea (AS) during entire forecast period.

3. Forecast for next two week

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (12 to 18 May, 2022) and Week 2 (19 to 25 May, 2022)

Forecast for week 1 (12 to 18 May, 2022):

- **Southwest Monsoon likely to advance into South Andaman Sea & adjoining Southeast Bay of Bengal around 15th May, 2022. Thereafter, it is likely to advance over remaining parts of Andaman Sea and many parts of south & adjoining central Bay of Bengal during the week.**
- A Well Marked Low Pressure Area Pradesh (**remnant of Cyclonic Storm 'ASANI'**) lies over coastal Andhra Pradesh at 0830 hrs IST of today, the 12th May. It is likely to weaken further into a Low Pressure Area during next 12 hours.
- Strong southwesterly winds from Bay of Bengal to northeast & adjoining east India at lower tropospheric levels;
- ❖ Widespread light/moderate rainfall with thunderstorm/lightning/gusty winds very likely over Northeast India during the week.
- ❖ **Isolated heavy to very heavy falls** very likely over Assam-Meghalaya during 12th to 17th May. **Isolated extremely heavy falls** also likely over Meghalaya on 12th to 14th May.
- ❖ **Isolated heavy falls** very likely over Arunachal Pradesh on 12th and isolated heavy to very heavy falls during 13th to 17th May.

- ❖ **Isolated heavy falls** very likely over Nagaland-Manipur-Mizoram-Tripura during 13th to 17th May.
- Fairly widespread to widespread light/moderate rainfall very likely over Andaman & Nicobar Islands during the week. **Isolated heavy falls** very likely over the region during 2nd half of the week. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph also likely over south Andaman Sea on 15th to 17th May, 2022.
- Fairly widespread to widespread light/moderate rainfall with isolated thunderstorm/lightning/gusty winds very likely over Kerala-Mahe & Lakshadweep with **isolated heavy falls** over Kerala-Mahe during most days of the week.
- Isolated to scattered rainfall activity with isolated thunderstorm/lightning/gusty winds very likely over Karnataka, Tamilnadu, Puducherry & Karaikal, Telangana, Andhra Pradesh and Rayalaseema during most days of the week. **Heavy to very heavy rainfall** at isolated places very likely over Rayalaseema on today, the 12th May; **Heavy rainfall** at isolated places is also very likely over coastal Andhra Pradesh, Coastal & South Interior Karnataka on today the 12th May and over and over Tamilnadu, Puducherry & Karaikal on 12th & 14th May, 2022.
- A fresh Western Disturbance likely to affect Western Himalayan Region from 16th May, 2022. Under its influence, isolated to scattered rainfall with thunderstorm/lightning & hail very likely over Western Himalayan Region and adjoining plains of India during 16th to 19th May, 2022.
- No significant weather likely over remaining parts of the country during the week.

Rainfall for week 2 (19 to 25 May, 2022):

- **Increase in rainfall/thunderstorm activity over south Peninsular India as compared to week 1.**
- Due to trough/wind discontinuity and strong westerly flow from Arabian Sea over south Peninsula India, light/moderate fairly widespread to widespread rainfall activity likely over southwest Peninsular India and isolated to scattered rainfall over rest peninsular India. **Isolated heavy rainfall is also likely over Kerala, Coastal & South Interior Karnataka during many days of the week..**
- 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 over northeast & East India during most days of the week. **Isolated heavy rainfall is also likely over northeast India during some days of the week.**

- **Overall, rainfall activity is likely to be above normal over Peninsular & Central India; near normal over east & northeast India and below normal over northwest India during the week.**

Maximum Temperatures for week 1(12 to 18 May, 2022) and week 2(19 to 25 May, 2022)

Maximum Temperatures for Week 1(12 to 18 May, 2022):

- **Maximum Temperatures (as on 11/05/2022)** were 43-46°C over most parts of Rajasthan; in some parts of West Madhya Pradesh, Gujarat state, Vidarbha and 40-42°C over most parts of East Madhya Pradesh; in many parts of Punjab; in some parts of south Haryana and in isolated pockets of Madhya Maharashtra and Madhya southern parts of East Uttar Pradesh..
- No significant change in maximum temperatures very likely over Northwest India during 1st half of the week and fall by 2-3°C thereafter.
- No significant change in maximum temperatures very likely over East India, Vidarbha & Chhattisgarh during next 24 hours and rise by 2-4°C thereafter.
- No significant change in maximum temperatures very likely over Gujarat during next 2 days and fall by 2-3°C thereafter..
- **Heat Wave conditions in most parts with severe heat wave conditions in isolated pockets very likely over West Rajasthan during 12th to 13th; heat wave conditions in many parts on 14th & 15th and is some parts on 16th May, 2022.**
- **Heat Wave conditions in some parts with severe heat wave conditions in isolated pockets very likely over East Rajasthan on 12th & 13th and heat wave conditions in some parts during 14th to 16th May, 2022.**
- **Heat Wave conditions in isolated pockets very likely over Gujarat state on 12th & 13th; Jammu & Kashmir, south Haryana-Delhi, Punjab during 12th-14th; West Madhya Pradesh during 12th- 16th; East Madhya Pradesh during 13th-16th; Vidarbha during 14th-16th May, 2022.**

Maximum Temperatures for week 2 (19 to 25 May, 2022):

- **Maximum temperatures likely to rise over most parts of northwest & adjoining central India as compared to week 1.**
- These are likely to be above normal by 2-4°C over most parts of northwest India and Odisha. It is likely to be below normal to near normal over rest parts of India.
- **Heat wave at isolated pockets likely over northwest India during many days of the week.** Refer Annex V)

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

Refer

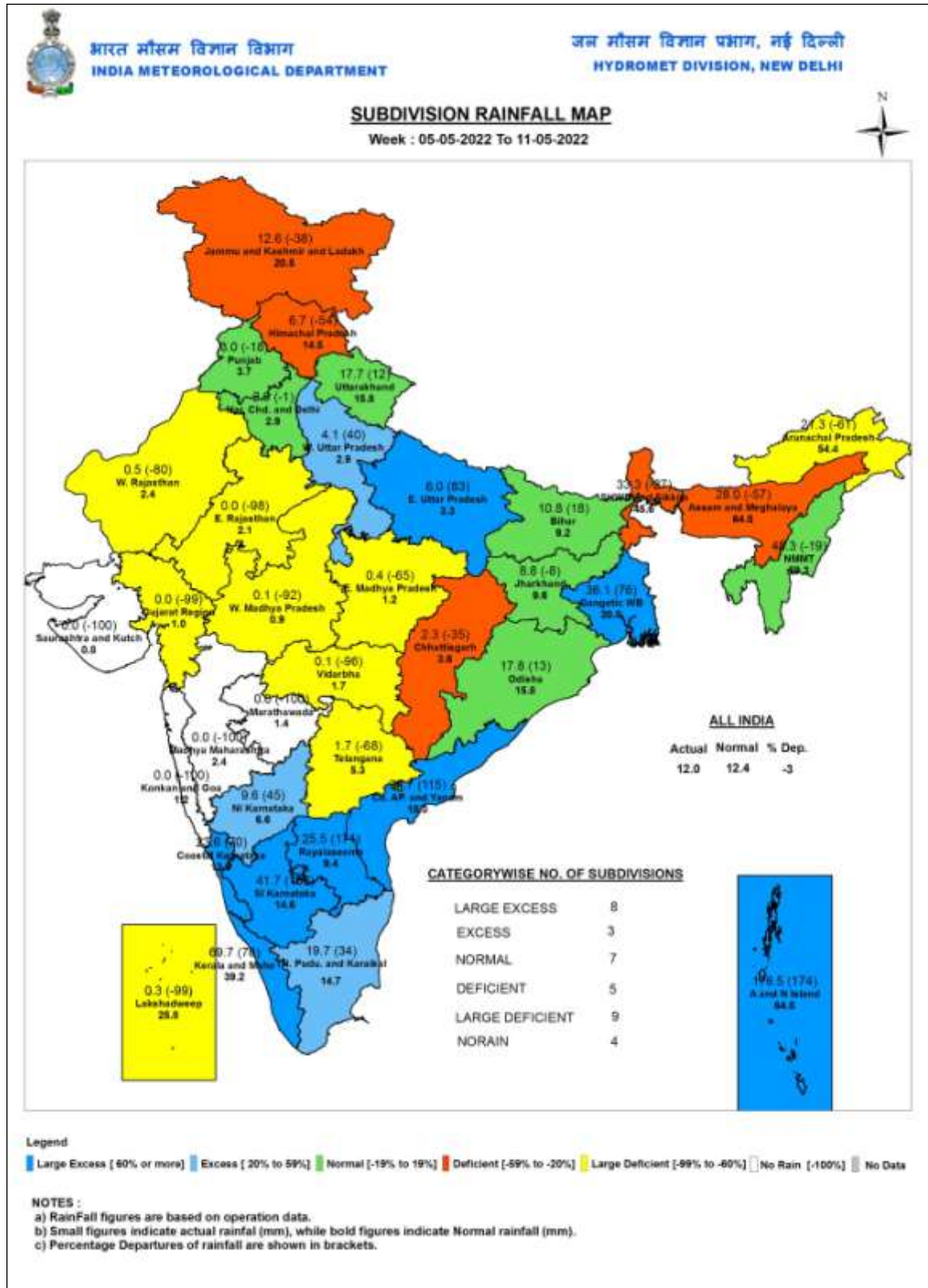
https://rsmcnewdelhi.imd.gov.in/uploads/archive/24/24_5d2d9e_Extended%20Range%20Outlook_12052022.pdf

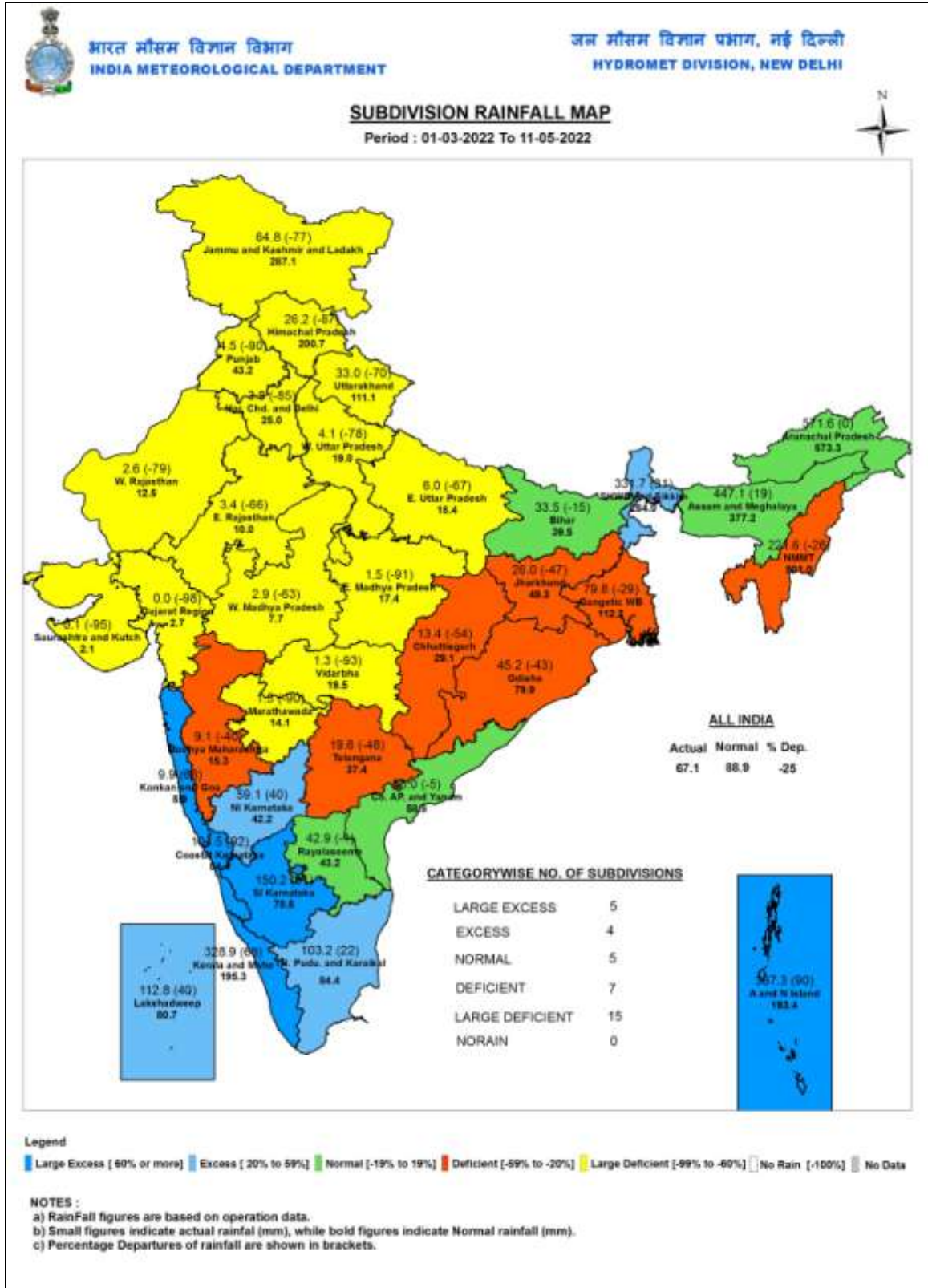
Next weekly update will be issued on next Thursday i.e. 5 May April 2022

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

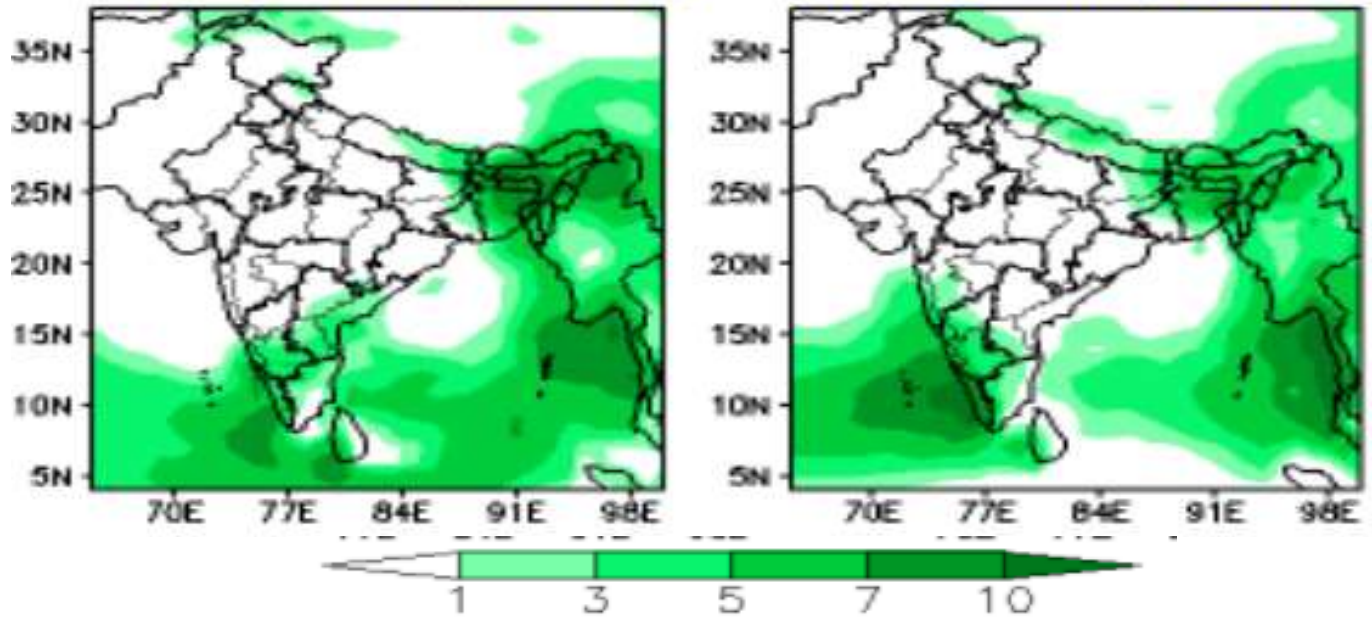




Forecast Rainfall (mm/day)

(Week1: 13May-19May)

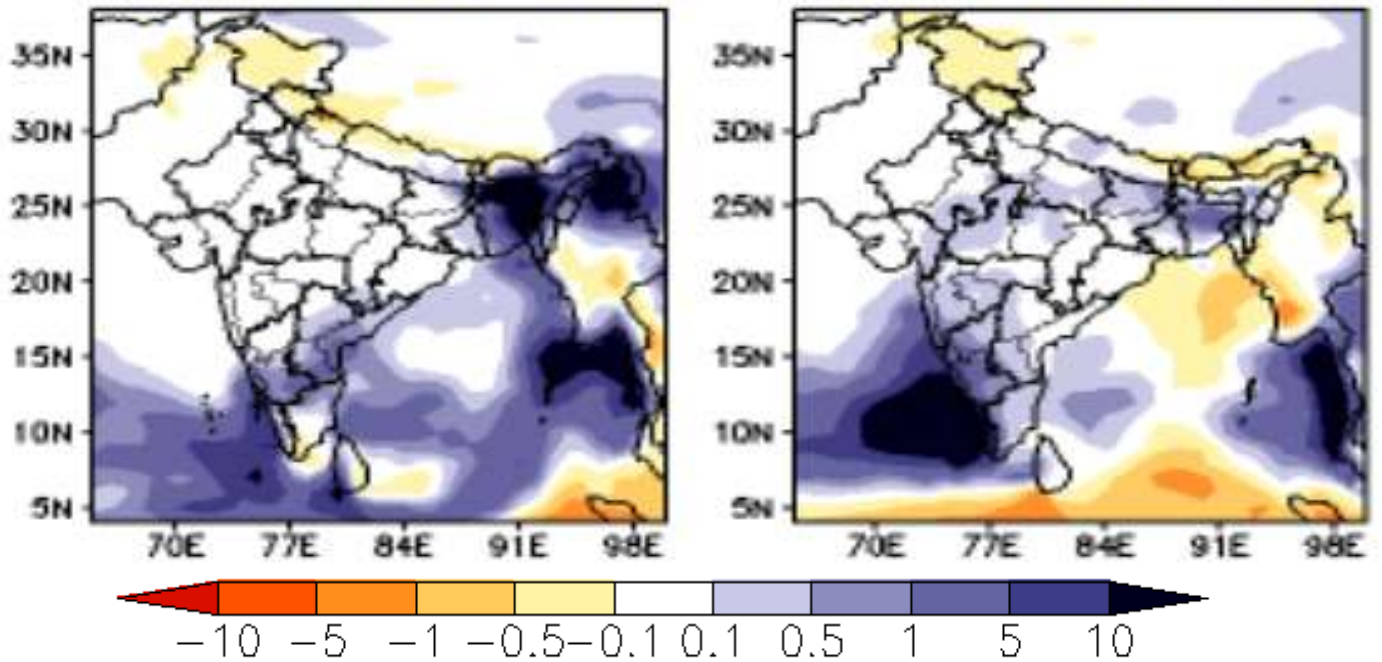
(Week2: 20May-26May)



Forecast Rainfall Anomaly (mm/day)

(Week1: 13May-19May)

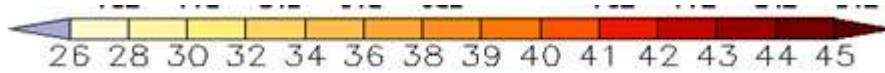
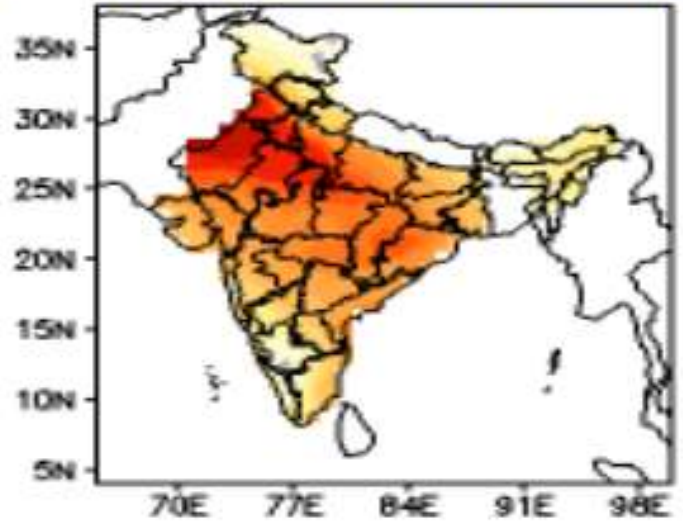
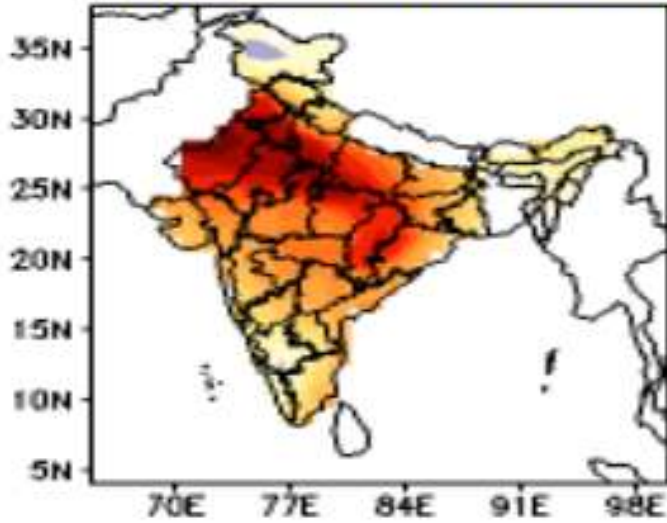
(Week2: 20May-26May)



MME Bias corrected forecast Tmax (Deg)

(Week1: 13May-19May)

(Week2: 20May-26May)



MME forecast Tmax anomaly (Deg C)

(Week1: 13May-19May)

(Week2: 20May-26May)

