



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

**Press: Dated:10 March, 2022**

**Subject: Current Weather Status and Extended range Forecast for next two weeks  
(10-23 March 2022)**

**1. Salient Features for week ending on 09 March 2022**

- No major weather system affected the main land of the country and rainfall was sub-normals during the week over most parts of India, except parts of Madhya Pradesh, Rajasthan, Maharashtra and Kerala where normal to above normal rainfall occurred. However, movement of 2 WDs, associated induced cyclonic circulations and trough in easterly have caused some rainfall and thunderstorm activities on 1-3 days during the week over northwest and west central parts of India, Maharashtra and extreme south Peninsular India.
- A Deep Depression moved from Southwest Bay of Bengal and adjoining Equatorial Indian Ocean to Southwest Bay of Bengal during 3-6 March 2022 and then its remnant to north Tamil Nadu coast till 7<sup>th</sup> March 2022. Since this system had been away from the coast, it had not caused any adverse weather over Peninsular India.
- Movement of 1<sup>st</sup> WD had caused isolated rainfall/snowfall /thunderstorm activity over Western Himalayan Region on one or two days along with fairly widespread to widespread rainfall/snowfall/thunderstorm activity over Jammu Kashmir & Ladakh and Himachal Pradesh on one day each during the first half of the week. Under the influence of 2<sup>nd</sup> WD, which subsequently followed, isolated to scattered rainfall/snowfall/thunderstorm activity had occurred over Jammu Kashmir & Ladakh on one or two days during the second half of the week. Under the influence of the induced cyclonic circulations associated with the Western Disturbances, isolated rainfall/thunderstorm activity had occurred over plains of Northwest India on one or two days and over adjoining areas of Central India on three to four days during the week.
- Under the influence of trough in low level easterlies, isolated rainfall/thunderstorm activity had occurred

over parts of Peninsular India and adjoining areas of West India during the second half of the week.

- **Weekly overall Rainfall distribution during the current week ending on 09 March 2022**  
**Pre-monsoon Season’s Rainfall Scenario (01 March to 09 March, 2022):** During the week ending on 09 March 2022, for the country as a whole, the weekly cumulative All India Rainfall departure from its long period average (LPA) was -75% with weekly cumulative over northwest India as -65%, while all India cumulative rainfall during this year’s **Pre-monsoon Season’s Rainfall Scenario (01 March to 09 March, 2022)** is below LPA by -76% and over northwest India, it is above LPA by -69%. 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		
	03.03.2022 TO 09.03.2022			01.03.2022 TO 09.03.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	0.2	10.0	-98%	1.0	13.1	-93%
NORTH-WEST INDIA	3.2	9.1	-65%	3.7	11.8	-69%
CENTRAL INDIA	0.4	1.8	-78%	0.6	2.4	-76%
SOUTH PENINSULA	1.2	2.7	-57%	1.3	3.1	-57%
country as a whole	1.4	5.5	-75%	1.7	7.1	-76%

## 2. Large scale features

- Currently, weak La Niña conditions are prevailing over equatorial Pacific region. The latest Monsoon Mission Climate Forecast System (MMCFS) forecast indicates that these La Niña conditions are likely to weaken starting from the northern hemisphere spring season and to reach cold ENSO neutral conditions during the second quarter of 2022. At present, neutral IOD conditions are present over Indian Ocean and the latest MMCFS forecast indicates that the neutral IOD

conditions are likely to continue during the forecast period.

- The Madden Julian Oscillation (MJO) Index currently lies in Phase 1 with amplitude less than 1 and will move across phases 2, 3 and 4 during entire forecast period. Thus, MJO phase is conducive for enhancement of convective activity over the north Indian Ocean during entire forecast period.

### 3. Forecast for next two week

#### Forecast for next two week

#### Weather systems & associated Precipitation during Week 1 (10 to 16 March, 2022) and Week 2 (17 to 23 March, 2022)

#### Rainfall for week 1 (10 to 16 March, 2022):

- Due to wind confluence & convergence south Peninsular India in lower tropospheric levels,
  - ✓ Isolated light rainfall very likely to continue over Kerala & Mahe during most days of the week; over Coastal Karnataka & Lakshadweep during next 2 days and over Tamilnadu during 12th-14th March, 2022.
  - ✓ Light rainfall with thunderstorm & lightning very likely to continue at isolated places over Konkan & Goa, Madhya Maharashtra & Marathwada on 10th March.
- Due to Western Disturbance as a cyclonic circulation over north Haryana & neighbourhood at lower tropospheric levels, isolated light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and with thunderstorm & lightning over Uttarakhand on 10th March, 2022 and dry weather thereafter.
- A Cyclonic Circulation lies over Southeast and adjoining Southwest Bay of Bengal & Equatorial Indian Ocean and extends upto middle tropospheric levels. Under its influence scattered to fairly widespread light/moderate rainfall very likely over Andaman & Nicobar Islands during next 2 days.
- Dry weather very likely over remaining parts of the country during most days of the week.
- Overall rainfall activity is likely to be below normal over most parts of the country during the week.

### Rainfall for week 2 (17 to 23 March, 2022):

- Due to trough/wind discontinuity over south Peninsula India, isolated to scattered rainfall along with thunderstorm is likely over extreme south Peninsular India during many days of the week.
- Due to trough over northeast India, thunderstorm activity is also likely over northeast & adjoining east India during some days of the week.
- Overall, rainfall activity is likely to be below normal over most parts of the country except extreme south Peninsular India and Andaman & Nicobar Islands, where it is likely to be normal to above normal.

### Maximum Temperatures for week 1(10 to 16 March, 2022) and week 2(17 to 23 March, 2022)

#### Maximum Temperatures for Week 1(10 to 16 March, 2022):

- Maximum Temperatures (as on 09-03-2022) were above 35°C over many parts of Gujarat, Kerala & Mahe, Telangana, Rayalaseema and Tamilnadu. These were above normal by 2-4°C over many parts of Gujarat, Konkan & Goa and Kerala & Mahe.
- No significant change in maximum temperatures very likely over Northwest & Central India during next 2 days and gradual rise by 2-4°C thereafter.
- Gradual rise in maximum temperatures by 2-3°C very likely over Gujarat State during 1<sup>st</sup> half of the week and no significant change thereafter.
- No significant change in maximum temperatures over rest parts of the country..
- **No significant heat wave conditions likely over any part of the country during the week.**

#### Maximum Temperatures for week 2 (17 to 23 March, 2022):

- There is likely gradual rise in maximum temperatures over most parts of the country as compare to week 1.
- These are likely to be above normal by 2-4°C over many parts of northwest, central, east & northeast India and north Peninsular India and near normal over rest parts of India.
- Heat wave at isolated pockets likely over Gujarat & adjoining areas during some days of the week. (Refer Annex IV)

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

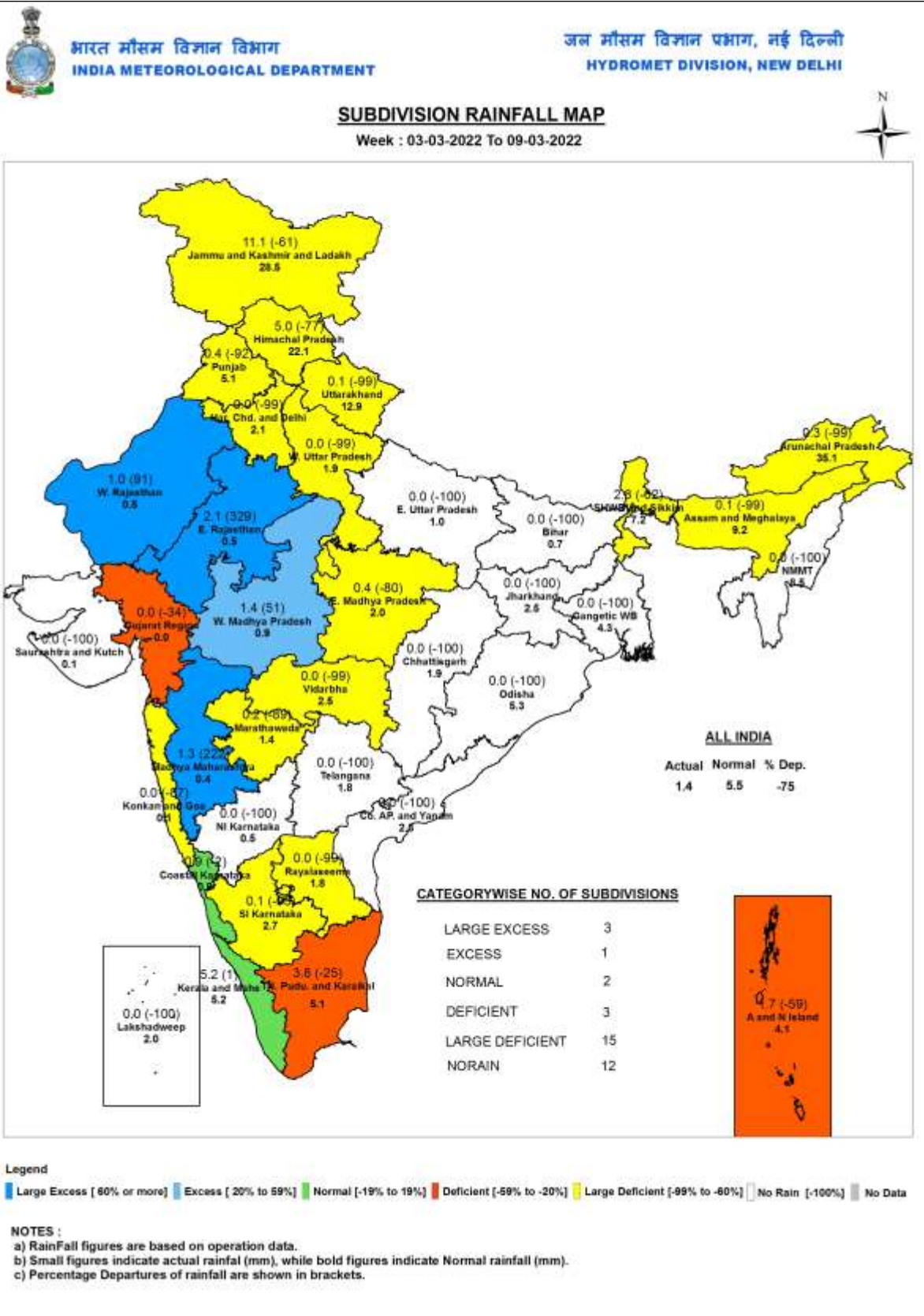
Various broad scale features, sea conditions and model guidance indicate that no cyclogenesis is expected over the North Indian Ocean region during next 2 weeks. However, favourable MJO & sea conditions and various models guidance indicate development of a cyclonic circulation over the central parts of south Bay of Bengal during first half of week 1 leading to enhanced convective activity over the region.

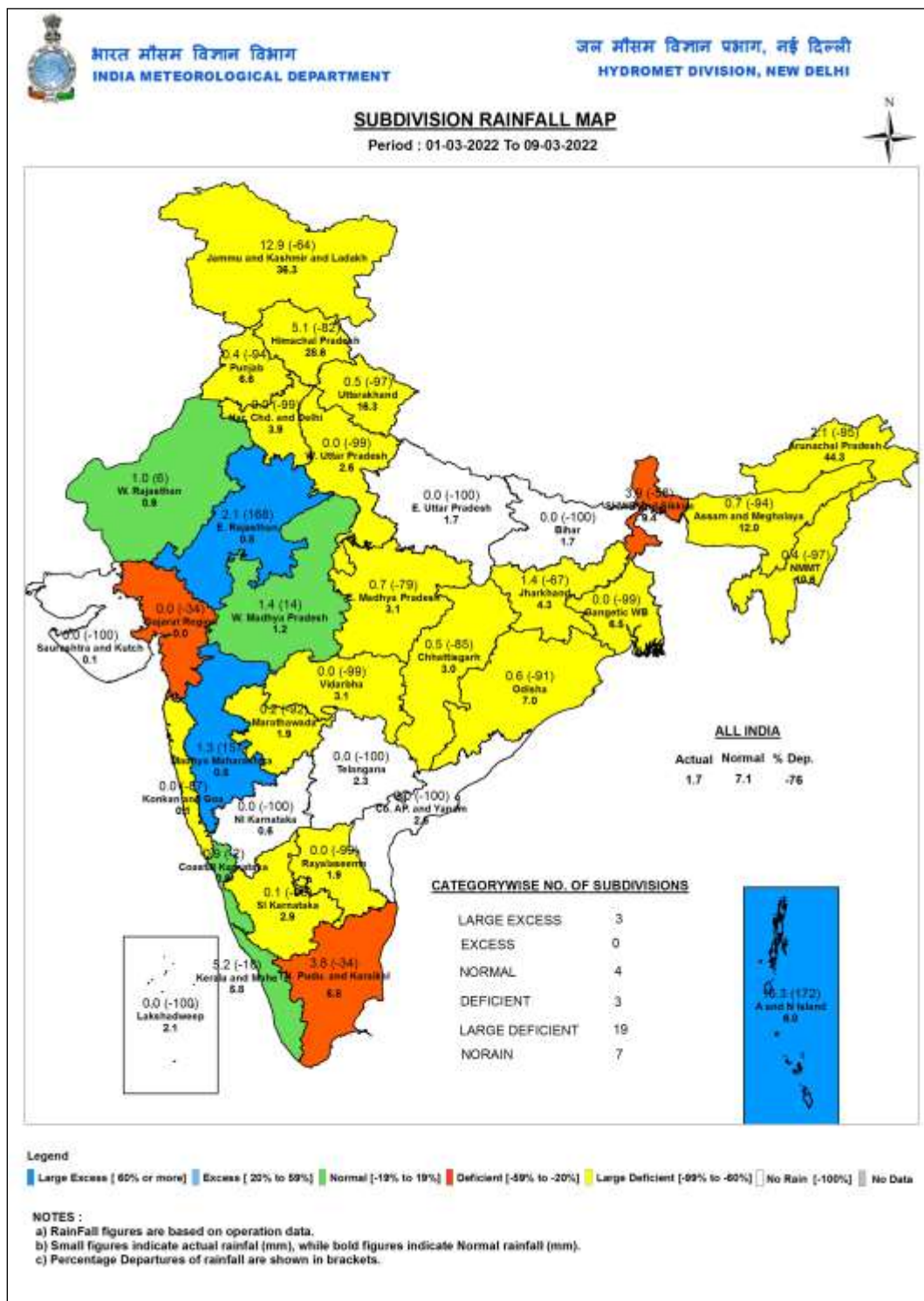
**Next weekly update will be issued on next Thursday i.e. 17 March 2022**

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

<b>SPATIAL DISTRIBUTION</b> (% 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)

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

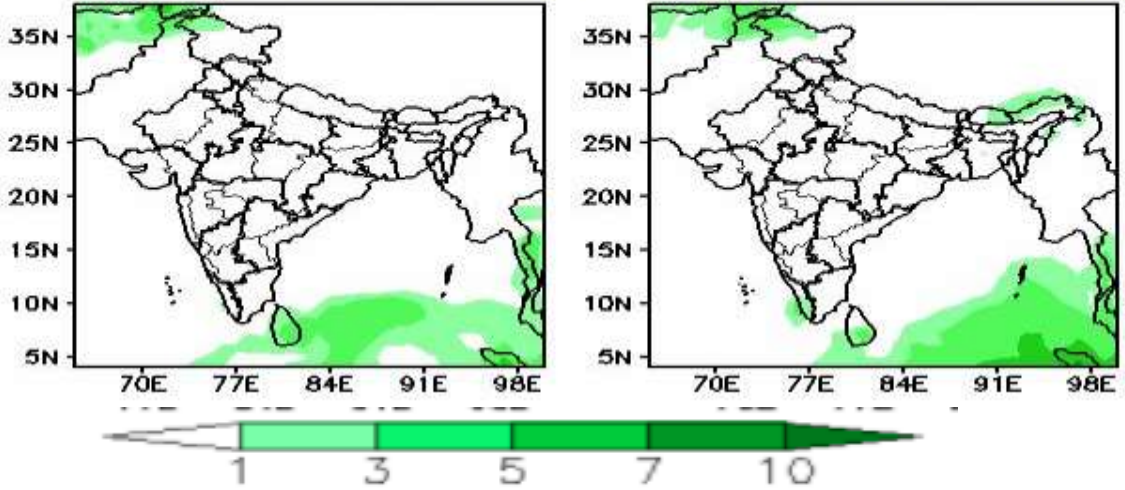




**Forecast Rainfall (mm/day)**

(Week1: 11Mar-17Mar)

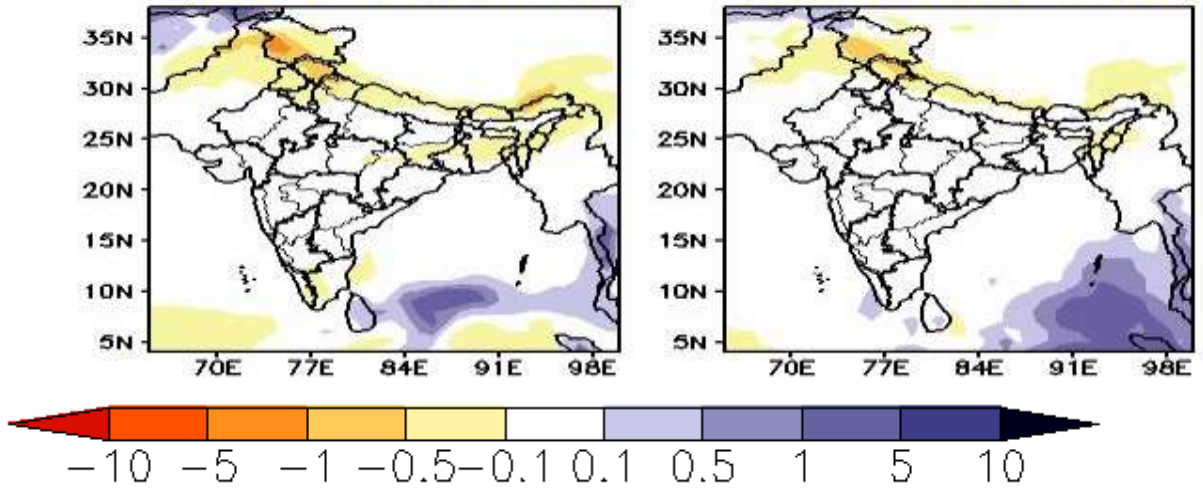
(Week2: 18Mar-24Mar)



**Forecast Rainfall Anomaly (mm/day)**

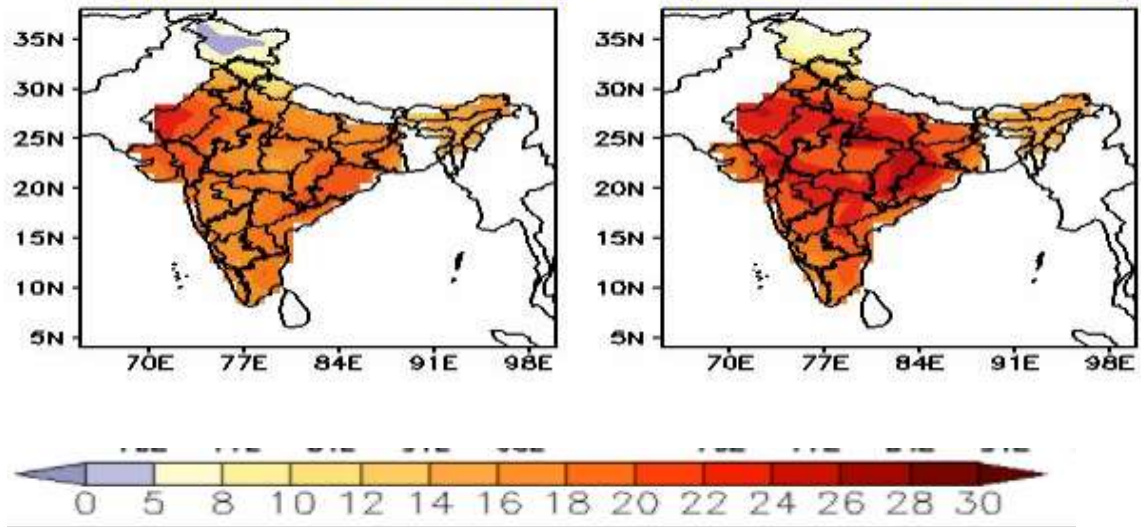
(Week1: 11Mar-17Mar)

(Week2: 18Mar-24Mar)





**MME Bias corrected forecast Tmax (Deg)**  
(Week1: 11Mar-17Mar) (Week2: 18Mar-24Mar)



**MME forecast Tmax anomaly (Deg C)**  
(Week1: 11Mar-17Mar) (Week2: 18Mar-24Mar)

