



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

Press: Dated: 17 Feb, 2022

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(17 Feb- 2 March 2022)**

1. Salient Features for week ending on 16 Feb 2022

- **No major weather system affected the country and rainfall was sub-due during the week over most of the country including over northwest India due to absence of any active WD affecting the region.** However, under the influence of a trough in low level easterlies over Andaman Sea, fairly widespread to widespread rainfall/thunderstorms had occurred over Andaman & Nicobar Islands towards the end of the week. Remnants of Western Disturbances have caused scattered to fairly widespread rainfall/snowfall activity over Arunachal Pradesh and Sikkim and isolated to scattered rainfall/thunderstorm activity over remaining parts of East and Northeast India during the first half of the week.
- **Weekly overall Rainfall distribution during the current week ending on 16 Feb 2022**
Winter Season's Rainfall Scenario (01 Jan to 16 Feb, 2022): During the week ending on 16 Feb 2022, for the country as a whole, the weekly cumulative All India Rainfall departure from its long period average (LPA) was -71% with weekly cumulative over northwest India as -93%, while all India cumulative rainfall during this year's Winter Season till 16 Feb, 2022 is above LPA by +616% and over northwest India, it is above LPA by +72%. 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		
	10.02.2022 TO 16.02.2022			01.01.2022 TO 16.02.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	5.2	6.2	-16%	61.1	35.0	+75%
NORTH-WEST INDIA	0.8	12.4	-93%	90.9	56.4	+61%
CENTRAL INDIA	0.6	2.4	-74%	25.4	12.5	+103%
SOUTH PENINSULA	2.2	2.3	-4%	22.3	12.3	+81%
country as a whole	1.7	6.0	-71%	50.6	29.5	+72%

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 3 with amplitude more than 1 and will propagate eastwards and remain in Phase 4 from middle of week 1 to first half of week 2 with amplitude gradually becoming less than 1. Thereafter, it will enter into phase 5 during later part of week 2. MJO phase is thus favourable for enhancement of convective activity over the Bay of Bengal (BoB).

3. Forecast for next two week

Weather systems & associated Precipitation

Week 1 (17 to 23 February, 2022):

- Under the influence of cyclonic circulation over Southeast Bay of Bengal at lower tropospheric levels; fairly widespread to widespread rainfall very likely over Andaman & Nicobar Islands during 1st half of the week and reduce thereafter. **Isolated heavy rainfall accompanied with thunderstorm/lightning also likely over Andaman & Nicobar Islands on 17th and over Andaman Islands on 18th February. Strong surface winds (20-30 kmph) likely along & off Andaman & Nicobar Islands during next 2 days.**
- Isolated to scattered light/moderate rainfall very likely over Arunachal Pradesh during 1st half of the week, fairly widespread during subsequent 02 days and isolated thereafter; isolated to scattered light/moderate rainfall over Assam & Meghalaya during 19th to 21st; over Nagaland-Manipur-Mizoram-Tripura on 20th and 21st February. **Isolated Heavy rainfall also likely over Arunachal Pradesh on 20th February 2022.**
- A trough runs from north Kerala to Marathwada in lower tropospheric levels and also due to northeasterly winds over coastal Tamilnadu in lower tropospheric levels, isolated light/moderate rainfall very likely over south interior Karnataka and Marathwada on 17th; over Telangana during next 2 days; over south Tamilnadu and Kerala during most days of the week and scattered light/moderate rainfall over Lakshadweep Islands during next 2 days.
- Isolated/scattered light/moderate rainfall very likely over Sub-Himalayan West Bengal-Sikkim during the week and isolated light/moderate rainfall over Gangetic West Bengal & Odisha on 20th & 21st; over Jharkhand on 20th and over Bihar on 21st February, 2022.
- Isolated light rainfall likely over Vidarbha and Chhattisgarh on 17th, 19th & 20th; Madhya Pradesh on 18th & 19th February, 2022.
- Under the influence of feeble Western Disturbance; isolated light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 17th & 18th and over Himachal Pradesh on 18th February, 2022.
- Strong surface winds (25-35 kmph) likely to prevail over Haryana-Chandigarh-Delhi and Uttar Pradesh on 19th and 20th February 2022.
- A fresh Western Disturbance likely to cause light isolated to scattered rainfall/snowfall over Western Himalayan Region during 22nd to 24th February, 2022.

- Dry weather very likely over remaining parts of the country during most days of the week.
- **Overall rainfall activity is very 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 above normal.**

Week 2 (24 February to 02 March, 2022):

- **No intense Western Disturbance is likely to affect northwest India during the week.**
- Light/moderate isolated to scattered rainfall/thundershower is likely over east & northeast India and south Peninsular India is likely during most days of the week.
- **Overall precipitation activity is likely to be above normal east & northeast India and south Peninsular India; normal to above normal over rest parts of the country except Western Himalayan Region, where it is likely to be below normal.**

Minimum Temperatures, cold wave and fog

Week 1(17 to 23 February, 2022):

- Gradual rise in minimum temperatures by 2-3°C very likely over most parts of Gujarat state during 1st half of the week and gradual fall by 2-3°C thereafter.
- Gradual rise in minimum temperatures by 2-3°C very likely over Bihar and Gangetic West Bengal during 1st half of the week and no significant changes thereafter.
- No significant change in minimum temperatures very likely over most parts over Central India during 1st half of the week and fall by 2-3°C thereafter.
- No significant change in minimum temperatures very likely over rest parts of the country during most days of the week.

Week 2 (24 February to 02 March, 2022):

- **There is likely gradual rise in minimum temperatures over most parts of the country as compare to week 1.**
- **These are likely to be near normal over most parts of the country.** (Refer Annex IV)

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

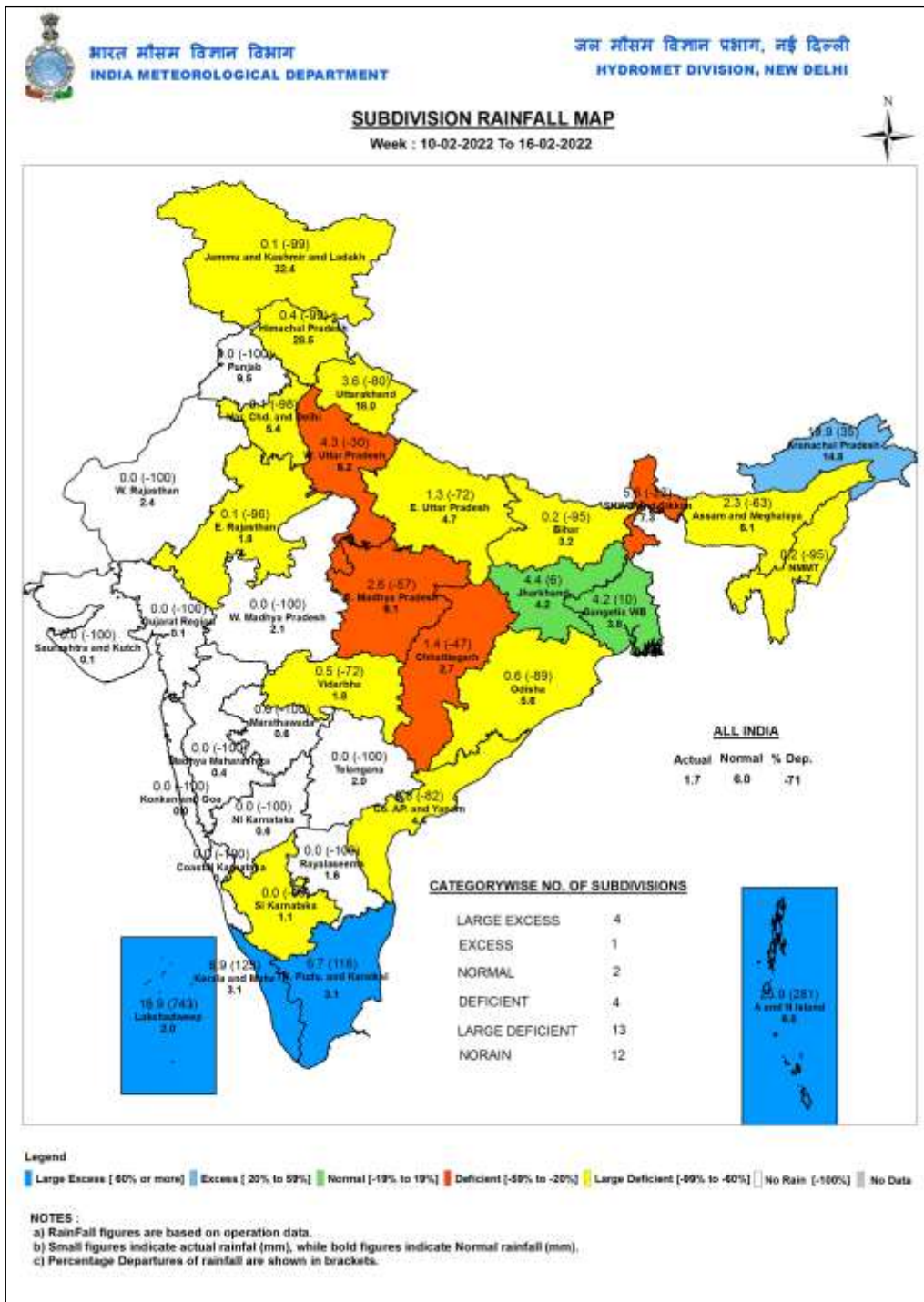
Various broad scale features and model guidance indicate that no cyclogenesis is likely over the North Indian Ocean during the ensuing 2 weeks

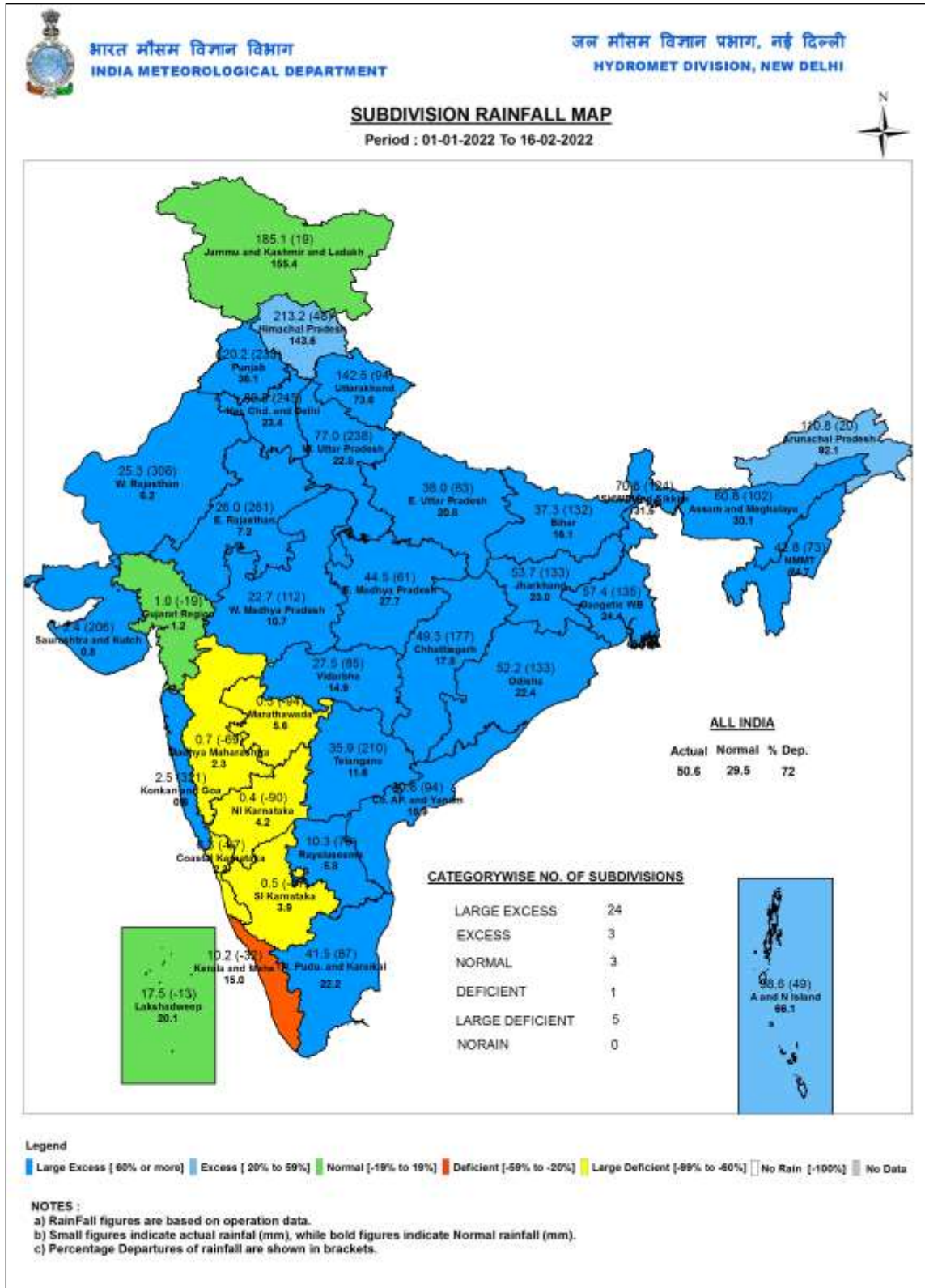
Next weekly update will be issued on next Thursday i.e. 24 Feb 2022

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

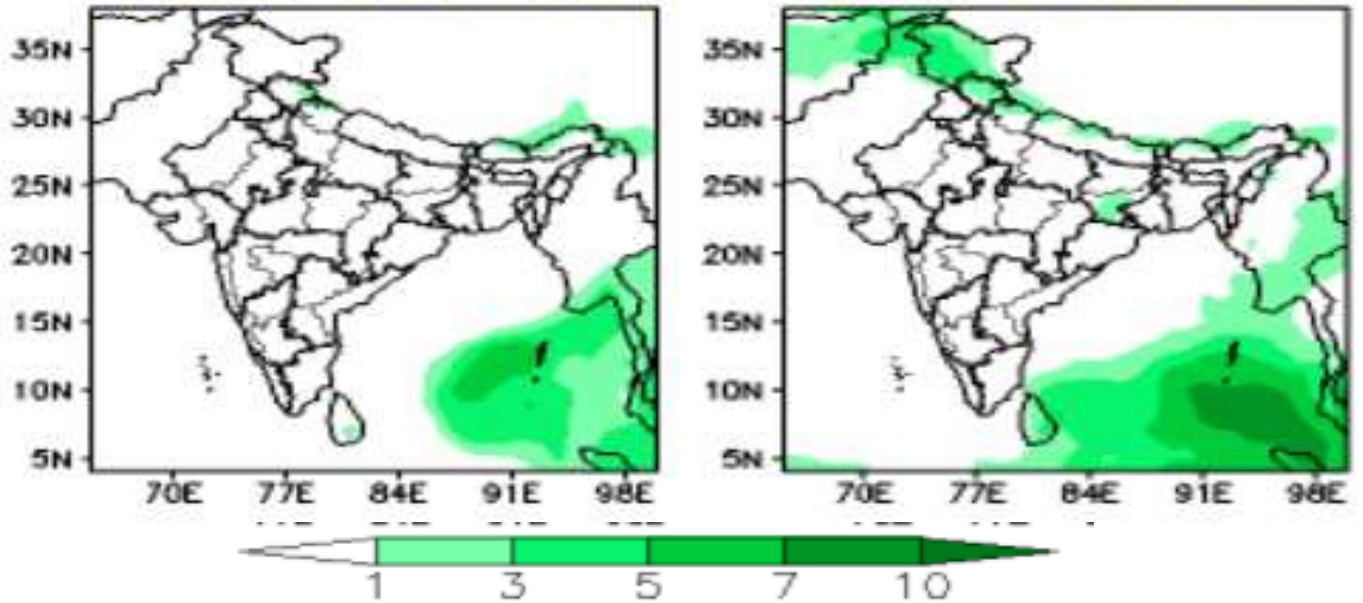




Forecast Rainfall (mm/day)

(Week1: 18Feb-24Feb)

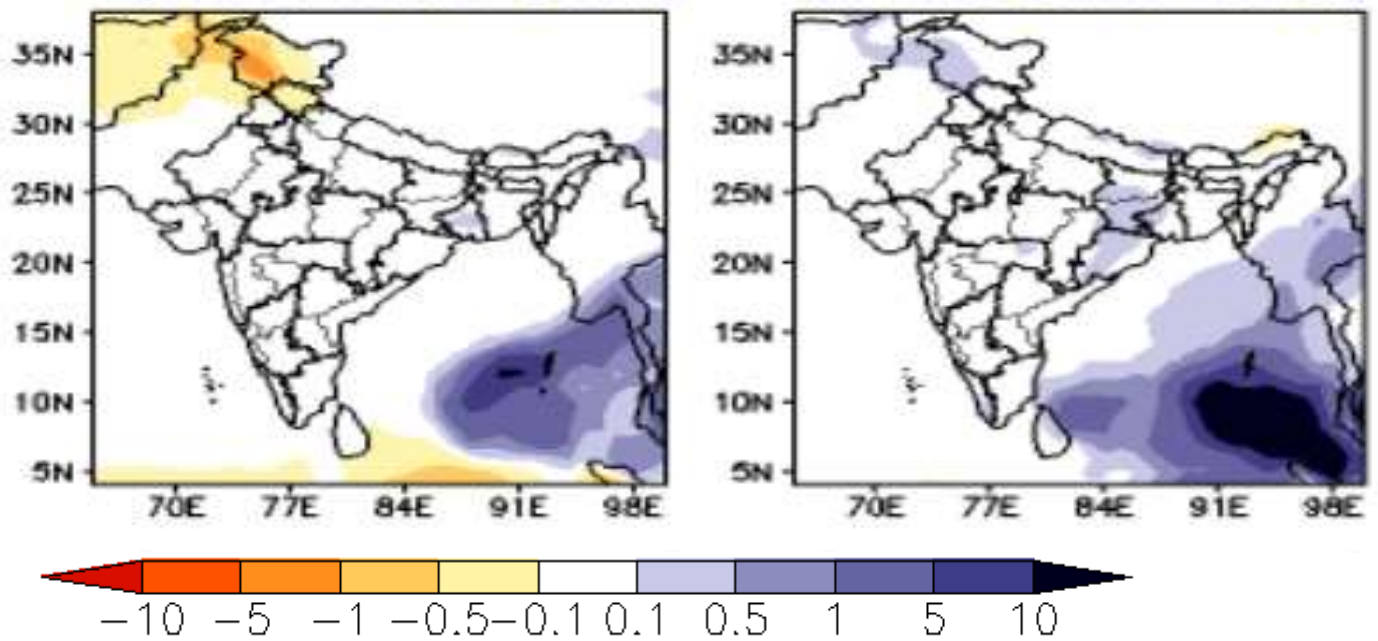
(Week2: 25Feb-03Mar)



Forecast Rainfall Anomaly (mm/day)

(Week1: 18Feb-24Feb)

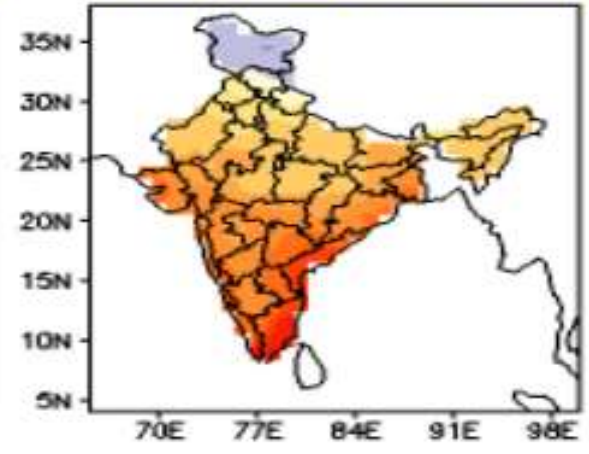
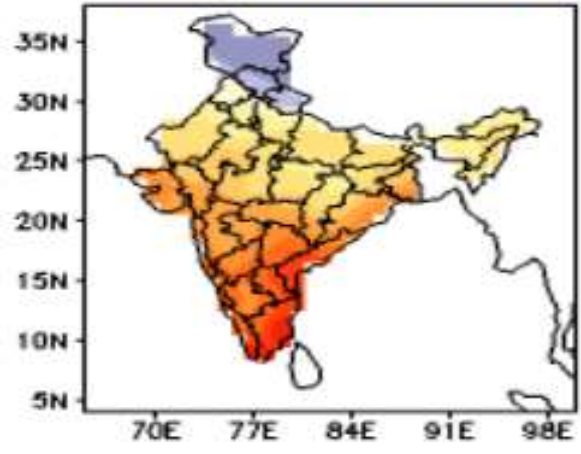
(Week2: 25Feb-03Mar)



MME Bias corrected forecast Tmin (Deg)

(Week1: 18Feb-24Feb)

(Week2: 25Feb-03Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 18Feb-24Feb)

(Week2: 25Feb-03Mar)

