



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

Press: Dated: 3rd Mar, 2022

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(3-16 March 2022)**

1. Salient Features for week ending on 2 March 2022

- Formation and westward movement of a Low Pressure Area across south Andaman Sea had caused scattered to fairly widespread rainfall/thunderstorms over Andaman & Nicobar Islands during the second half of the week along with isolated heavy rainfall activity reported for 2 days during 27 Feb-1 March.
- Movement of three WDs across extreme norther India had caused fairly widespread to widespread rainfall/snowfall/thunderstorm activity over Jammu Kashmir & Ladakh during most dates in the week and over remaining parts of Western Himalayan Region on two to three days whereas isolated rainfall/snowfall/thunderstorm activity had been reported over these region on one or two days during the week. Two WDs along with their induced cyclonic circulations had caused scattered to fairly widespread rainfall/thunderstorms over Punjab and Haryana, Chandigarh & Delhi one or two days and isolated rainfall/thunderstorm activity over parts of Madhya Pradesh on two to three days; isolated hailstorm activity also had been reported over Uttarakhand and over plains of northwest India on one or two days along with.
- **Weekly overall Rainfall distribution during the current week ending on 2 March 2022**
Winter Season's Rainfall Scenario (01 Jan to 28 Feb, 2022): During the week ending on 1 March, for the country as a whole, the weekly cumulative All India Rainfall departure from its long period average (LPA) was -23% with weekly cumulative over Peninsular India as -60%, while all India cumulative rainfall during this year's Winter Season till 28 Feb, 2022 is above

LPA by **+44%** and over northwest India, it is above LPA by **+37%**. 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		
	24.02.2022 TO 02.03.2022			01.01.2022 TO 28.02.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	7.8	10.0	-22%	73.4	52.1	+41%
NORTH-WEST INDIA	10.5	13.1	-20%	108.3	78.9	+37%
CENTRAL INDIA	1.1	1.7	-36%	26.6	15.2	+75%
SOUTH PENINSULA	0.7	1.8	-60%	24.2	16.2	+49%
country as a whole	5.0	6.5	-23%	58.7	40.8	+44%

2. Large scale features

- Currently, La Niña conditions are prevailing over the equatorial Pacific region. The La Niña is likely to weaken during 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 the Indian Ocean and the latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue during the northern hemisphere spring and summer seasons. There is also a possibility of negative IOD conditions during the autumn season.
- The Madden Julian Index (MJO) currently lies in phase 6 with amplitude less than 1. It is likely to continue in the same phase for the next 3-4 days, then move to phase 7 and remain there till 1st half of the week 2 and at phase 8 in the 2nd half of the week 2 with amplitude remaining less than 1.

3. Forecast for next two week

Weather systems & associated Precipitation

week 1 (03 to 09 March, 2022):

- The depression over southwest Bay of Bengal and adjoining Equatorial Indian Ocean moved north-northwestwards with a speed of about 18 kmph during last 06 hours and lay centered at 1130 hrs IST of today, the 3rd March 2022, over southwest Bay of Bengal near latitude 6.1°N and longitude 83.4°E, about 360 km south-southeast of Trincomalee (Sri Lanka), 700 km south-southeast of Nagappattinam (Tamil Nadu), 760 km south-southeast of Puducherry (Tamil Nadu) and about 840 km south-southeast of Chennai (Tamil Nadu). It is likely to intensify further into a Deep Depression during next 24 hours. It is likely to move northwestwards along and off east coast of Sri Lanka towards north Tamil Nadu Coast during next 48 hours. Under its influence:

Rainfall forecast & Warnings (associated with depression):

- ✓ Light to moderate rainfall/thunder shower at a few places likely over coastal Tamil Nadu, Puducherry & Karaikal on 03rd March, 2022.
- ✓ Light to moderate rainfall/thunder shower at many places with **isolated heavy rainfall** likely over coastal Tamil Nadu, Puducherry & Karaikal; light to moderate rainfall/thundershower at a few places likely over south coastal Andhra Pradesh and Rayalaseema on 04th March, 2022.
- ✓ Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall** at isolated places very likely over north coastal Tamil Nadu, Puducherry & Karaikal; light to moderate rainfall/thunder shower at many places with **isolated heavy falls** very likely over south coastal Andhra Pradesh and Rayalaseema on 05th & 06th March, 2022.
- ✓ Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall** at isolated places very likely over north Tamil Nadu, Puducherry & Karaikal and **isolated heavy falls** very likely over south coastal Andhra Pradesh and Rayalaseema on 07th March, 2022.

Wind warning (associated with depression):

- ✓ Squally winds speed reaching 45-55 kmph gusting to 65 kmph are very likely to prevail over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil

Nadu, Puducherry coasts. Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely over Equatorial Indian Ocean on 03rd March, 2022.

- ✓ Squally winds speed would gradually increase becoming 50-60 kmph gusting to 70 kmph over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off north Tamil Nadu, Puducherry & South Andhra Pradesh coasts on 04th & 05th March, 2022.
- ✓ Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely to prevail over Westcentral & adjoining Southwest Bay of Bengal and along & off north Tamil Nadu, Puducherry and south Andhra Pradesh coasts on 06th March, 2022.

Sea condition:

- ✓ Sea condition will be rough to very rough over Southwest & adjoining westcentral Bay of Bengal, Gulf of Mannar and Comorin area and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts during 3rd – 6th March. Sea condition will be rough to very rough over adjoining Equatorial Indian Ocean on 3rd March, 2022.

Fishermen Warning:

- ✓ Fishermen are advised not to venture into Southwest & adjoining Westcentral Bay of Bengal, adjoining Equatorial Indian Ocean, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 6th March, 2022.
- A The Western Disturbance as a cyclonic circulation lies over north Pakistan & neighbourhood in lower & middle tropospheric levels and an induced cyclonic circulation lies over West Rajasthan & neighbourhood in lower tropospheric levels. Under their influence:
 - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall with isolated **thunderstorm/lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh and Uttarakhand during next 24 hours.
 - ✓ Isolated light rainfall very likely over Punjab, Haryana-Chandigarh and West Uttar Pradesh during next 24 hours.
 - ✓ **Strong surface Winds (speed 25-35 kmph)** very likely to prevail over Haryana-Chandigarh-Delhi & Rajasthan on 04th March and over most parts of plains of northwest India on 05th March, 2022.
- A fresh Western Disturbance is very likely to cause isolated to scattered rainfall/snowfall on 05th and fairly widespread to widespread light/moderate rainfall/snowfall over Jammu-

Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh; and isolated rainfall/snowfall over Uttarakhand on 06th & 07th March, 2022. **Isolated heavy rainfall** is also very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 06th March, 2022. Under influence of induced cyclonic circulation; isolated light rainfall likely over adjoining plains on 06th & 07th March, 2022.

- Dry weather very likely over remaining parts of the country during most days of the week.
- Overall precipitation activity is likely to be above normal most parts of South Peninsular India and Western Himalayan Region and below normal over rest parts of the country during the week.

week 2 (10 to 16 March, 2022):

- Under the influence of Western Disturbance & its associated induced cyclonic circulation; precipitation activity is likely to be normal to above normal over northwest India during the week.
- Rainfall activity is likely to be below normal rest parts of the country.

Maximum Temperatures Forecasts

Week 1(03 to 09 March, 2022):

- Maximum Temperature Departures (as on 02-03-2022) were above normal by 2- 4°C over West Rajasthan, Gujarat, West Madhya Pradesh, Vidharbha, Kerala & Mahe, Punjab, Konkan & Goa, Tamilnadu-Puducherry-Karaikal and Coastal Andhra Pradesh & Yanam. These were near normal or slightly below over most parts of rest India.
- The maximum temperatures are likely to be above normal by 2-3°C over most parts of northwest, east & northeast India and near normal of below normal by 2-3°C over rest parts of India.
- No heat wave is likely over any part of the country during the week.

week 2 (10 to 16 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 most parts of northwest and many parts of east & northeast India; and near normal of below normal by 2-3°C over rest parts of India.
- No heat wave is likely over any part of the country during the week.

- (Refer Annex IV)

Next weekly update will be issued on next Thursday i.e. 10 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

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

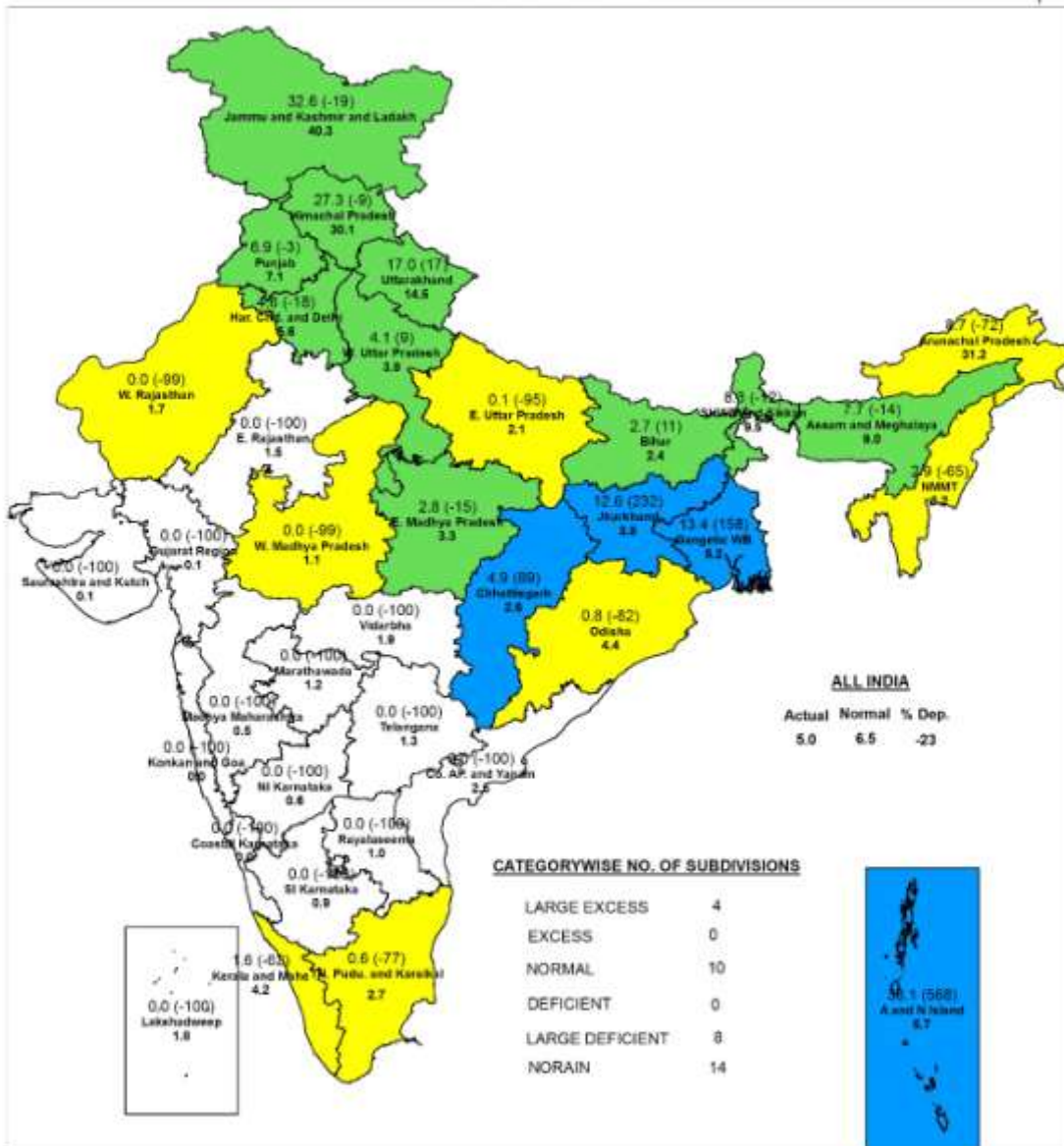


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INDIA METEOROLOGICAL DEPARTMENT

जन मौसम विज्ञान पभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Week : 24-02-2022 To 02-03-2022



Legend

Large Excess [>60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-69% to -20%] Large Deficient [-99% to -80%] No Rain [-100%] No Data

NOTES :

- a) Rainfall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.

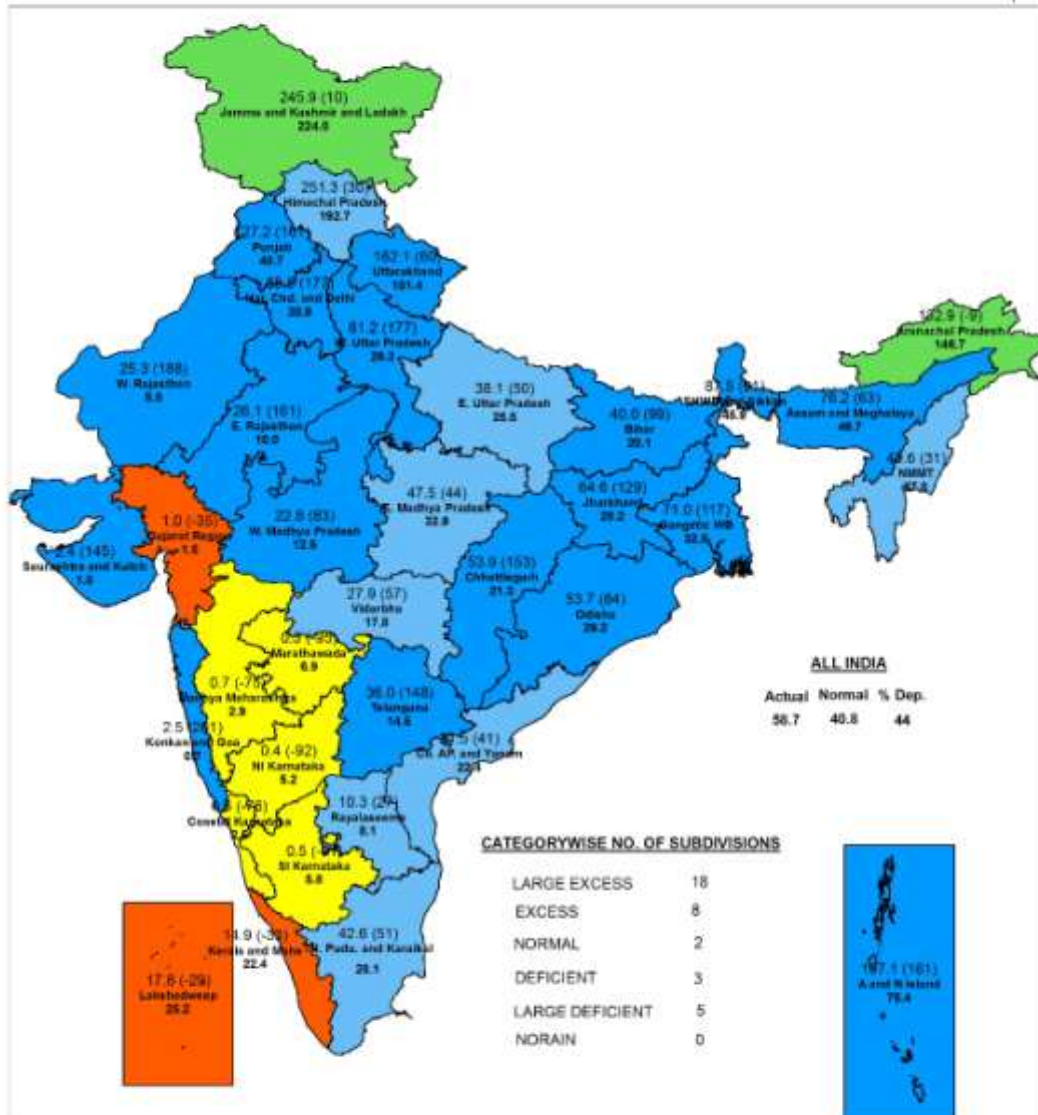


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INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान पभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-01-2022 To 28-02-2022



Legend

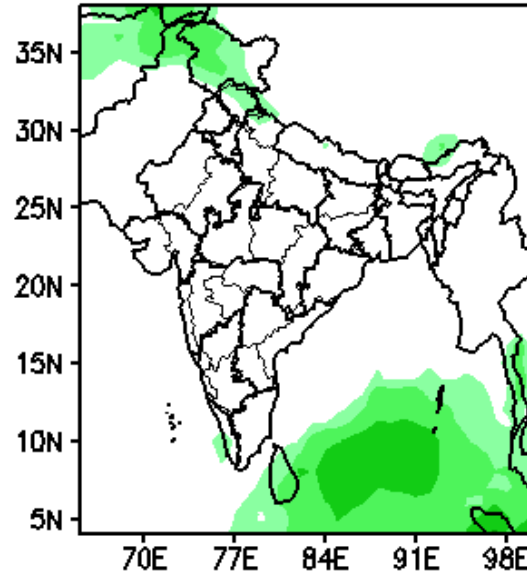
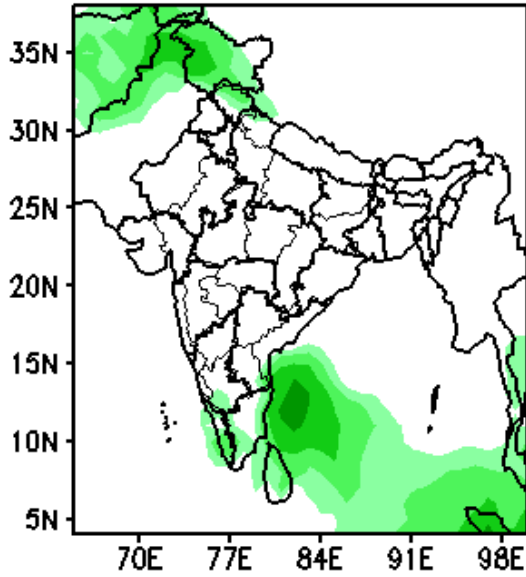
Large Excess [80% or more] Excess [20% to 89%] Normal [-19% to 19%] Deficient [-69% to -20%] Large Deficient [-96% to -40%] No Rain [-100%] No Data

NOTES :

- a) Rainfall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.

(Week1: 04Mar-10Mar)

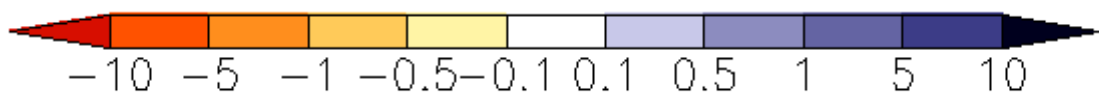
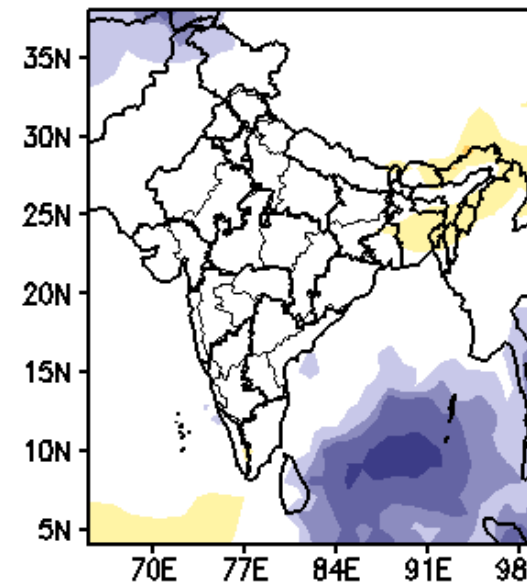
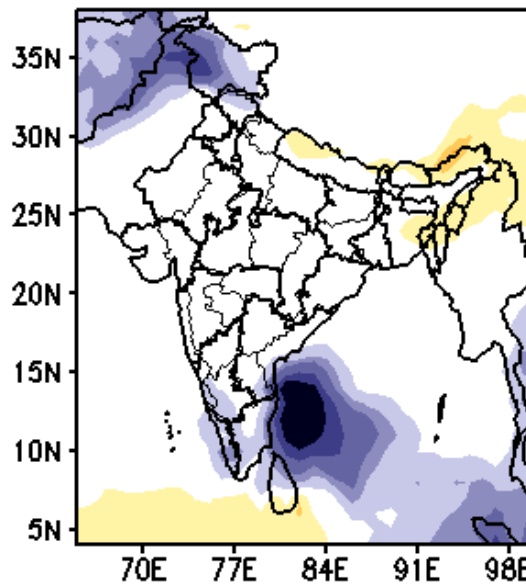
(Week2: 11Mar-17Mar)



Forecast Rainfall Anomaly (mm/day)

(Week1: 04Mar-10Mar)

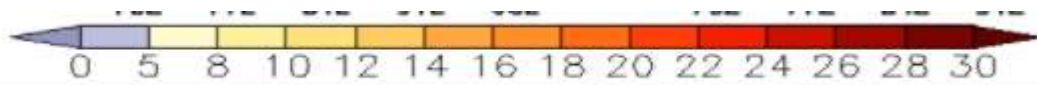
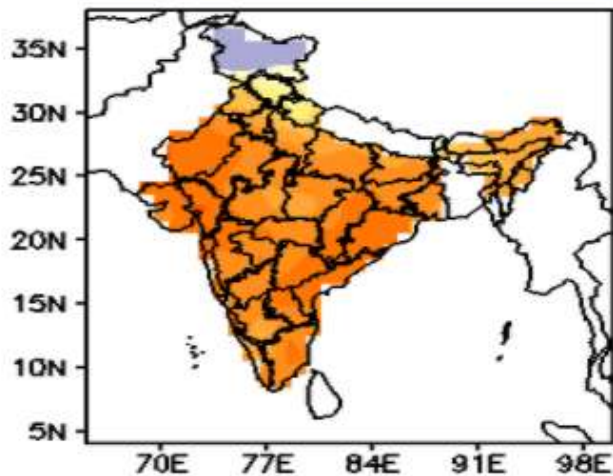
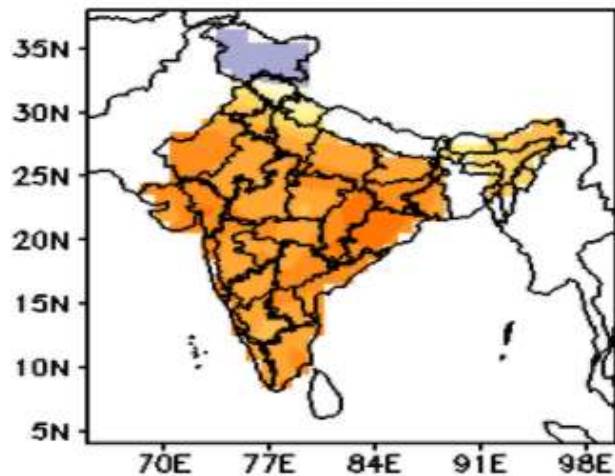
(Week2: 11Mar-17Mar)



MME Bias corrected forecast Tmax (Deg)

(Week1: 04Mar-10Mar)

(Week2: 11Mar-17Mar)



MME forecast Tmax anomaly (Deg C)

(Week1: 04Mar-10Mar)

(Week2: 11Mar-17Mar)

