



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

**Dated: 25 February, 2021**

**Subject: Current Weather Status and Outlook for next two weeks (25 February to 10 March, 2021)**

**Salient Features**

- Under the influence of an trough /wind discontinuity in low level easterlies, isolated to scattered rainfall/thunderstorm activity occurred over Andaman Nicobar islands and over West, Central and South Peninsular India till 23<sup>rd</sup> February, 2021. Isolated heavy to very heavy rainfall occurred over Tamilnadu, Puducherry & Karaikal during 20<sup>th</sup> to 22<sup>nd</sup> February and over South Interior Karnataka on 23<sup>rd</sup> February, 2021.
- As a result, rainfall activity over South Peninsula was 270% above Long Period Average (LPA) during past week (17 to 24 February, 2021).
- Dense to very dense fog occurred over Punjab, Haryana, Chandigarh & Delhi and West Rajasthan during 1<sup>st</sup> half of the week.
- Minimum temperatures are above normal by 2 to 6°C over most parts of northwest and adjoining central & east India, it is likely to be above normal during next 3-4 days and fall by 2-3°C thereafter.
- Under the influence of a Western Disturbance, fairly widespread to widespread rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, scattered to fairly widespread rainfall/snowfall over Himachal Pradesh during next 3 days and isolated to scattered rainfall/snowfall likely over Uttarakhand during next 4 days. Isolated heavy rainfall/snowfall very likely over Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 26<sup>th</sup> February, 2021.

### Weekly Rainfall Scenario (18 to 24 February, 2021)

During the week, rainfall for the country as a whole was below Long Period Average (LPA) by 54%. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	3.0	6.4	-54%
Northwest India	0.4	12.3	-97%
Central India	2.8	1.6	74%
South Peninsula	9.4	2.5	275%
East & northeast India	0.3	10.0	-97%

The Meteorological sub-division-wise rainfall for the week is given in **Annexure I**.

### Winter Rainfall Scenario (01 January to 24 February, 2021)

For the country as a whole, cumulative rainfall during this year's winter season till 24 February, 2021 is below LPA by 30%. Details of the rainfall distribution over the four broad geographical regions of India are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	25.7	36.7	-30%
Northwest India	33.2	70.2	-53%
Central India	8.8	14.3	-38%
South Peninsula	55.8	15.1	270%
East & northeast India	10.0	46.4	-78%

Cumulative seasonal rainfall is given in **Annexure II**.

### Weekly minimum Rainfall Scenario (18 to 24 February, 2021)

- The minimum temperatures were between 8 to 16°C over most parts of north & adjoining central India (excluding Western Himalayan Region) and more than 12°C over rest parts of India. These were above normal by 3 to 4°C over most parts of northwest India and upto 2°C over most parts of central parts of the country (**Annexure III**).

### Chief synoptic conditions as on 25 February, 2021

- A Western Disturbance as a cyclonic circulation lies over Afghanistan at 3.1 km above mean sea level with the trough aloft with its axis at 4.5 km above mean sea level along longitude 70°E to the north of latitude 30°N.
- An induced cyclonic circulation lies over north Pakistan at lower levels.
- A cyclonic circulation lies over Comorin area at lower levels.

### Large scale features as on 25 February, 2021

- Currently, moderate La Niña conditions are prevailing over equatorial Pacific and Sea Surface Temperatures (SSTs) are below normal over central and eastern equatorial Pacific Ocean. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates that colder than normal SST anomaly is most likely to persist over Nino 3.4 region and La Niña conditions likely to continue during coming seasons.
- At present, neutral Indian Ocean Dipole (IOD) conditions are observed over Indian Ocean and the latest MMCFS forecast indicates that neutral IOD conditions are likely to continue during the coming months.
- The Madden Julian Oscillation (MJO) index lies in Western Pacific (Phase 6) with high amplitude. As per the latest projections, it is likely to be in phase 7 with high amplitude during next one week. Thus suppressed convective activity is likely over north Indian Ocean.

### Forecast for next two week

#### Weather systems & associated Precipitation during Week 1 (25 February to 03 March, 2021) and Week 2 (04 to 10 March, 2021)

#### Rainfall for week 1: (25 February to 03 March, 2021)

- Under the influence of a Western Disturbance as a cyclonic circulation over Afghanistan in lower tropospheric level with a trough aloft with its axis in mid tropospheric level along longitude 70°E to the north of latitude 30°N and an induced cyclonic circulation over north Pakistan in lower tropospheric levels:

- (i) Fairly widespread to widespread rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, scattered to fairly widespread rainfall/snowfall over Himachal Pradesh during next 3 days and isolated to scattered rainfall/snowfall likely over Uttarakhand during next 4 days.
- (ii) Isolated thunderstorm/lightning very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during 25<sup>th</sup> to 27<sup>th</sup> February; over Himachal Pradesh & Uttarakhand during 26<sup>th</sup>-27<sup>th</sup> February. Isolated hailstorm also very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 25<sup>th</sup> & 26<sup>th</sup>; over Himachal Pradesh on 26<sup>th</sup> and over Uttarakhand on 26<sup>th</sup> & 27<sup>th</sup> February, 2021.
- (iii) Isolated heavy rainfall/snowfall very likely over Kashmir, Gilgit, Baltistan & Muzaffarabad on 26<sup>th</sup> February, 2021.
- Thereafter, a fresh Western Disturbance likely to affect Western Himalayan Region during 3<sup>rd</sup> to 5<sup>th</sup> March, 2021 and cause light/moderate scattered to fairly widespread precipitation over the region.
  - Light rainfall/thundershower is likely over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh during the week and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 1<sup>st</sup> half of the week
  - Light rainfall/thundershower is also likely over Kerala & Mahe during 1<sup>st</sup> half of the week (**Annexure IV**).
  - **Cumulatively, above normal rainfall/snowfall likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and rainfall over Kerala and normal to below normal rainfall over rest parts of country (Annexure V).**

#### **Rainfall for week 2: (04 to 10 March, 2021)**

- **Due to absence of any active Western Disturbance and other synoptic systems, below normal rainfall activity likely over the country (Annexure V).**

#### **Temperature for week 1 & 2: (25 February to 10 March, 2021)**

- Minimum temperatures are above normal by 2 to 6°C over most parts of northwest and adjoining central & east India and near normal over remaining parts of the country.
- No significant change in minimum temperature likely over most parts of Northwest,

central India during 1<sup>st</sup> half of the week1 and fall by 2-3°C during its 2<sup>nd</sup> half.

- No significant change in minimum temperature likely over rest parts of the country during week1.
- During week 2, **the minimum temperatures likely to be normal to above normal over northwest & adjoining central India and northeastern states. These are likely to be below normal by 2-4°C over remaining parts of the country (Annexure VI).**

#### **Cyclogenesis:**

- No cyclogenesis is likely over the north Indian Ocean during next two weeks.

**Next weekly update will be issued on next Thursday i.e. 04 March, 2021**

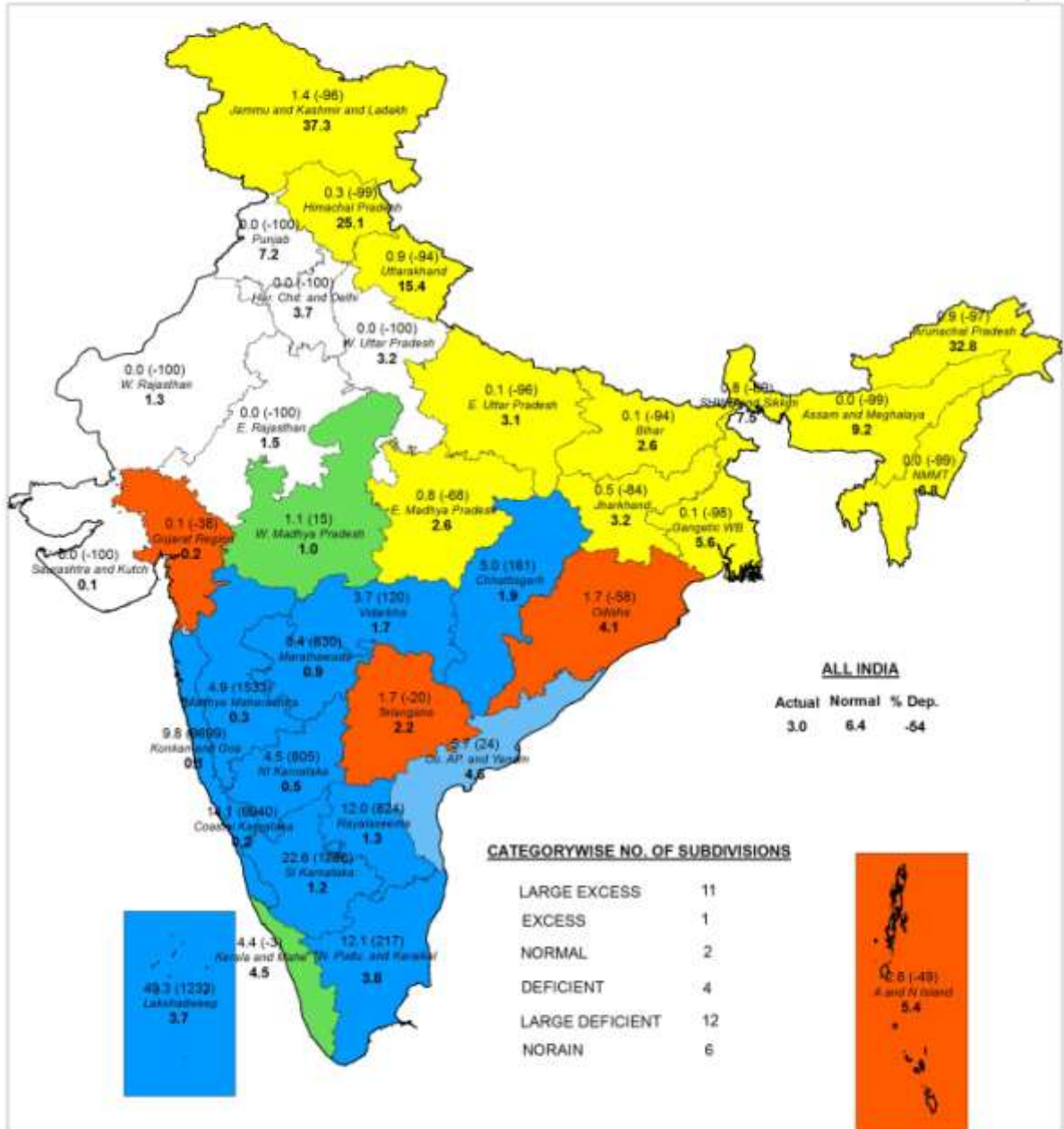


भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

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

**SUBDIVISION RAINFALL MAP**

Week : 18-02-2021 To 24-02-2021



**Legend**

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

**NOTES :**

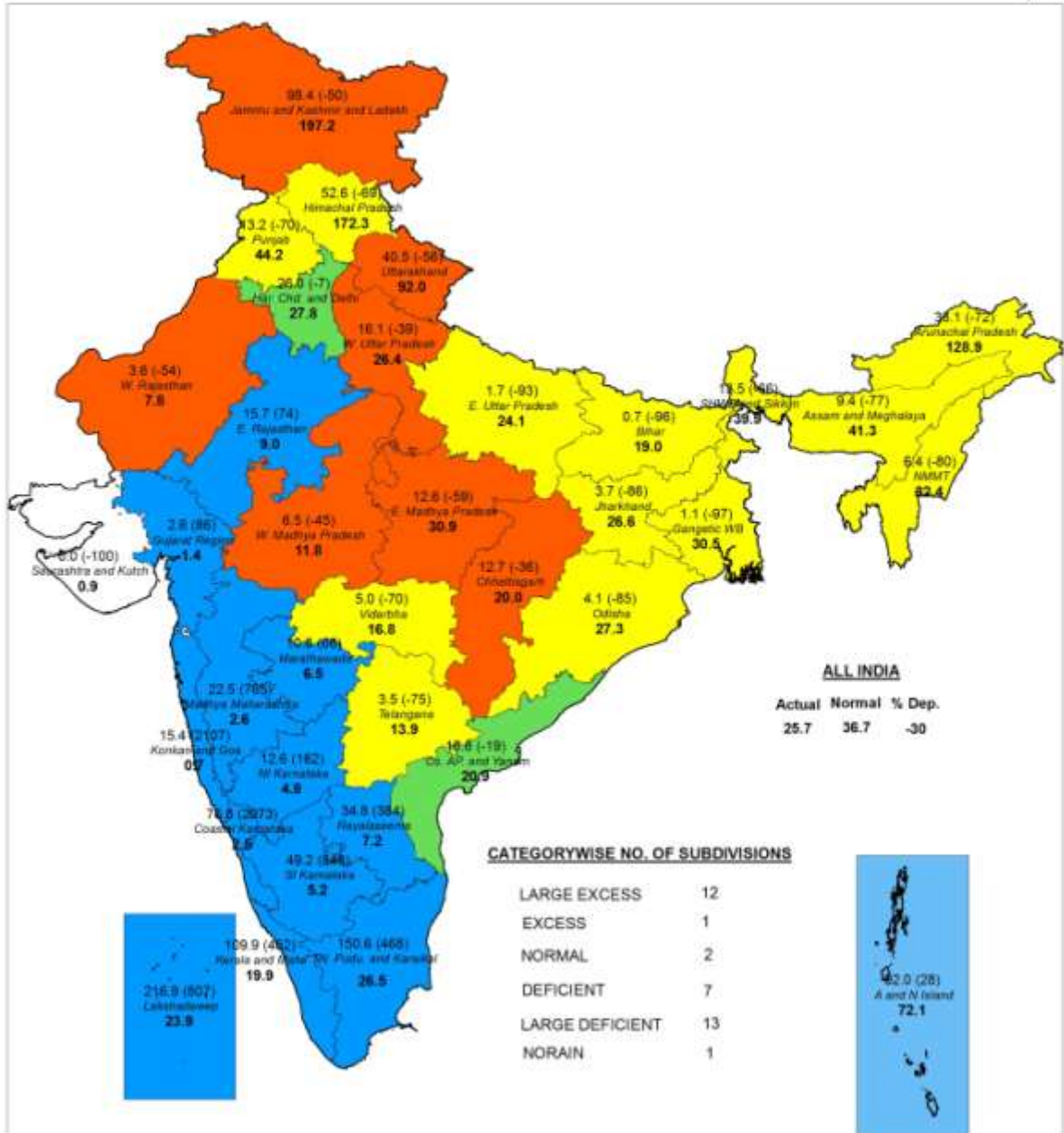
- a) Rainfall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.





**SUBDIVISION RAINFALL MAP**

Period : 01-01-2021 To 24-02-2021



**Legend**

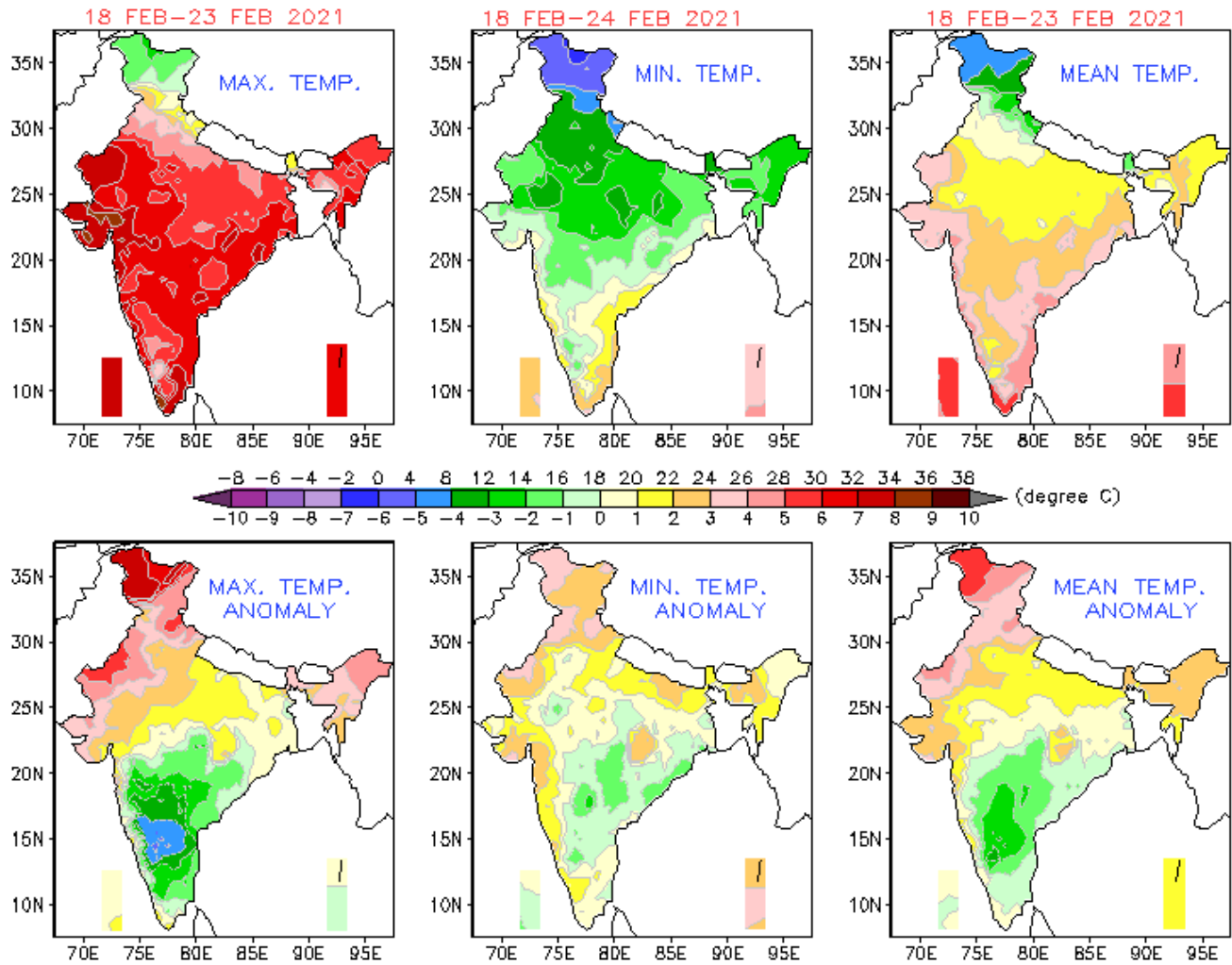
Large Excess [ 60% or more] Excess [ 30% to 59%] Normal [-19% to 19%] Deficient [-59% to -30%] Large Deficient [-69% to -60%] No Rain [-100%] No Data

**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.

### Annexure III

#### TEMPERATURE FOR WEEK ENDING 24 FEB & ITS ANOMALY





## Annexure IV

## METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST &amp; Wx. WARNINGS-2021

Sr. No	MET.SUB-DIVISIONS	25 FEB	26 FEB	27 FEB	28 FEB	01 MAR	02 MAR	03 MAR
1	ANDAMAN & NICO.ISLANDS	ISOL	D	D	D	D	D	D
2	ARUNACHAL PRADESH	ISOL <sup>L</sup>	ISOL <sup>L</sup>	ISOL <sup>L</sup>	SCT <sup>L</sup>	SCT <sup>L</sup>	ISOL	ISOL
3	ASSAM & MEGHALAYA	ISOL <sup>L</sup>	ISOL <sup>L</sup>	ISOL	ISOL	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	ISOL <sup>L</sup>	ISOL <sup>L</sup>	ISOL	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	D	D	D	D	D	D	D
7	ODISHA	D	D	D	D	D	D	D
8	JHARKHAND	D	D	D	D	D	D	D
9	BIHAR	D	D	D	D	D	D	D
10	EAST UTTAR PRADESH	D	D	D	D	D	D	D
11	WEST UTTAR PRADESH	D	D	D	D	D	D	D
12	UTTARAKHAND	ISOL	SCT <sup>L#</sup>	SCT <sup>L#</sup>	ISOL	D	D	D
13	HARYANA CHD. & DELHI	D	D	D	D	D	D	D
14	PUNJAB	D	ISOL	ISOL	D	D	D	D
15	HIMACHAL PRADESH	ISOL	FWS <sup>L#</sup>	SCT <sup>L</sup>	D	D	D	ISOL
16	JAMMU & KASHMIR AND LADAKH	WS <sup>L#</sup>	WS <sup>L#</sup>	FWS <sup>L</sup>	D	D	D	ISOL
17	WEST RAJASTSAN	D	D	D	D	D	D	D
18	EAST RAJASTSAN	D	D	D	D	D	D	D
19	WEST MADHYA PRADESH	D	D	D	D	D	D	D
20	EAST MADHYA PRADESH	D	D	D	D	D	D	D
21	GUJARAT REGION	D	D	D	D	D	D	D
22	SAURASTRA & KUTCH	D	D	D	D	D	D	D
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	D	D	D	D	D	D	D
25	MARATHAWADA	D	D	D	D	D	D	D
26	VIDARBHA	D	D	D	D	D	D	D
27	CHHATTISGARH	D	D	D	D	D	D	D
28	COASTAL ANDHRA PR. & YANAM	D	D	D	D	D	D	D
29	TELANGANA	D	D	D	D	D	D	D
30	RAYALASEEMA	D	D	D	D	D	D	D
31	TAMIL. PUDU. & KARAIKAL	ISOL <sup>L</sup>	D	D	D	D	D	D
32	COASTAL KARNATAKA	D	D	D	D	D	D	D
33	NORTH INTERIOR KARNATAKA	D	D	D	D	D	D	D
34	SOUTH INTERIOR KARNATAKA	D	D	D	D	D	D	D
35	KERALA & MAHE	ISOL <sup>L</sup>	ISOL	D	D	D	D	D
36	LAKSHADWEEP	D	D	D	D	D	D	D

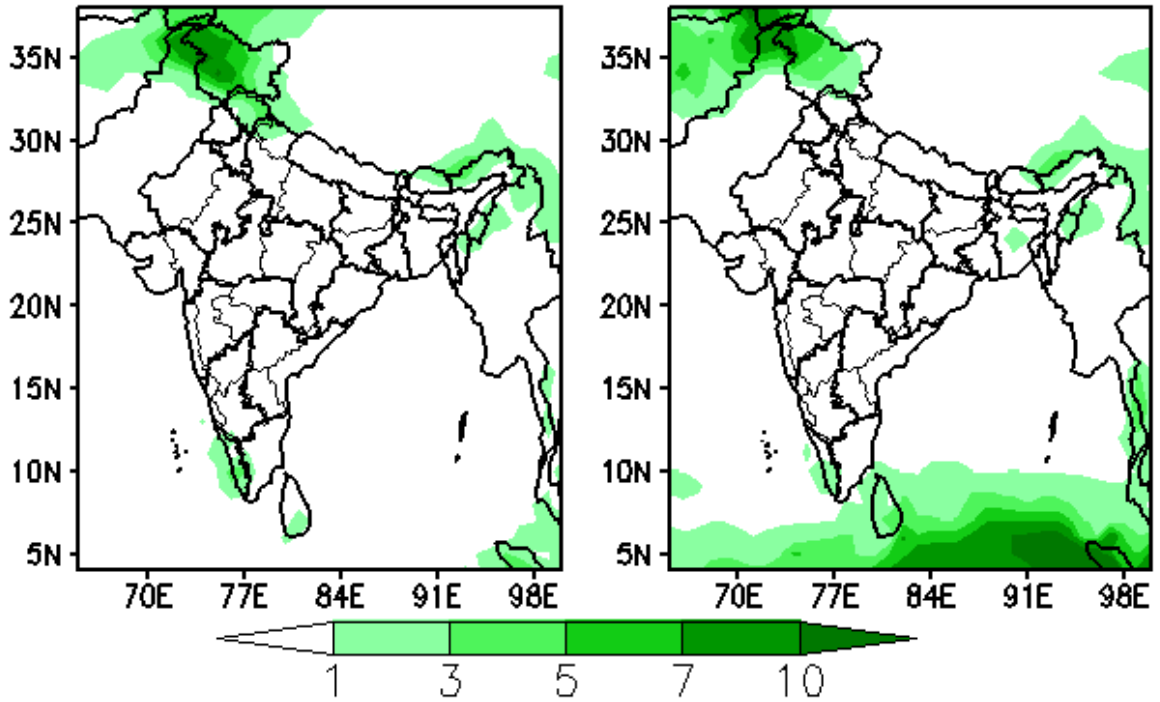
## LEGENDS:

WS - WIDE SPREAD / MOST PLACES (76-100%)				FWS - FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)				
SCT - SCATTERED / FEW PLACES (26% to 50%)				ISOL - ISOLATED (up to 25%)			D / DRY - NO RAINFALL	
* Heavy Rainfall (64.5-115.5 mm)		** Heavy to Very Heavy Rainfall (115.6-204.4 mm)			*** Extremely Heavy Rainfall (204.5 mm or more)			
F Fog	* Snowfall	D Dust storm	S Thunderstorm with Squall	L Thunderstorm with Lightning			# Thunderstorm with Hail	
↓ Cold Wave (Minimum temperature departure from Normal -4.5°C to -6.4°C)				↓ Severe Cold Wave (Minimum temperature departure from Normal ≤ -6.5°C)				
↑ Heat Wave (Maximum temperature departure from Normal +4.5°C to +6.4°C)				↑ Severe Heat Wave (Maximum temperature departure from Normal ≥ +6.5°C)				

### Forecast Rainfall (mm/day)

(Week1: 26Feb-04Mar)

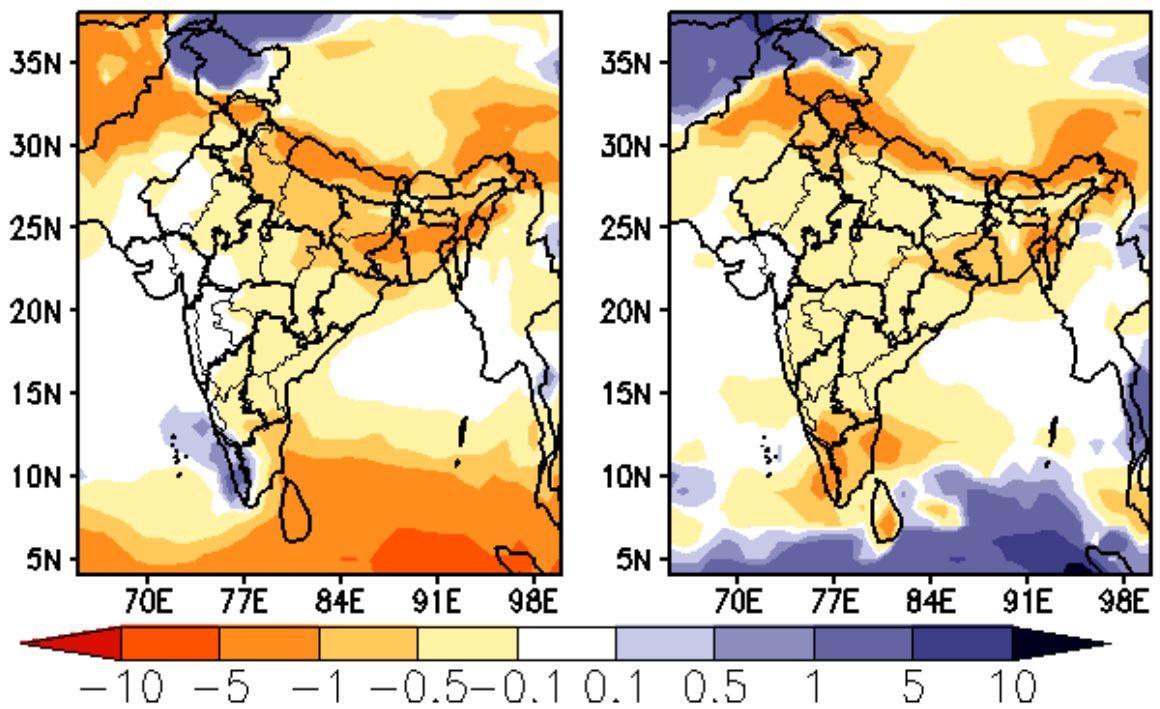
(Week2: 05Mar-11Mar)



### Forecast Rainfall Anomaly (mm/day)

(Week1: 26Feb-04Mar)

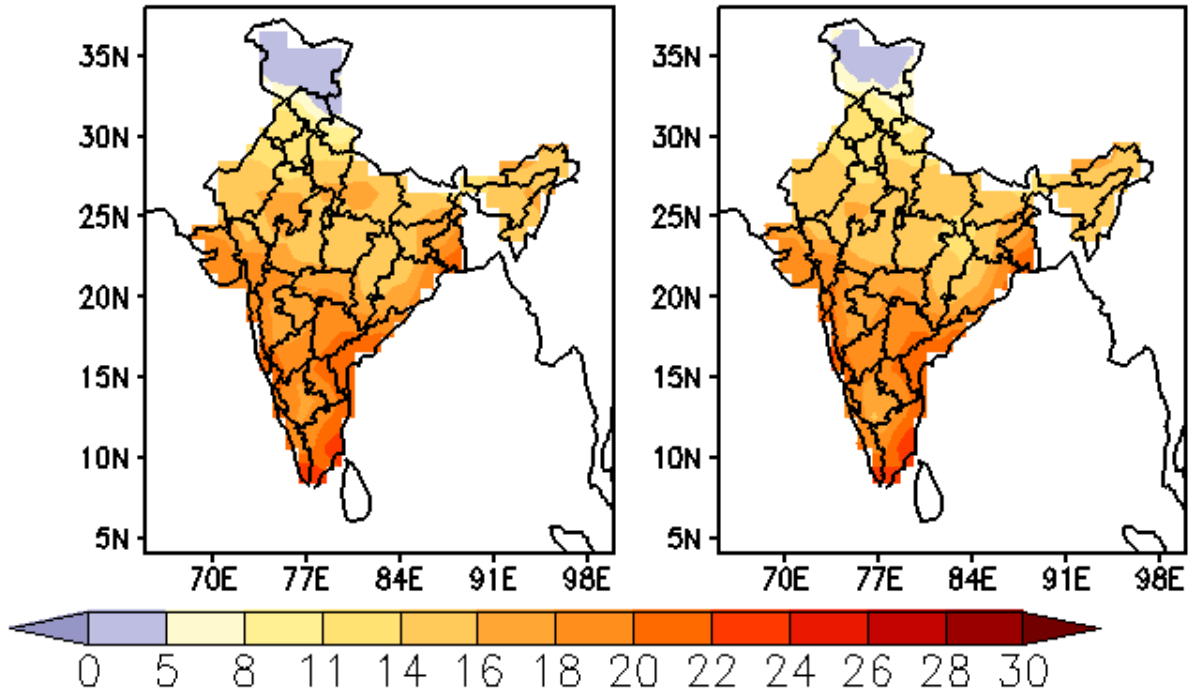
(Week2: 05Mar-11Mar)



### MME Bias corrected forecast Tmin (Deg)

(Week1: 26Feb-04Mar)

(Week2: 05Mar-11Mar)



### MME forecast Tmin anomaly (Deg C)

(Week1: 26Feb-04Mar)

(Week2: 05Mar-11Mar)

