



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

Dated: 25 March, 2021

Subject: Current Weather Status and Outlook for next two weeks (25 March to 07 April, 2021)

Salient Features

- An active Western Disturbance & its induced cyclonic circulation caused fairly widespread to widespread rainfall/snowfall/thunderstorm activity over Western Himalayan Region & Punjab during 22nd to 24th March, 2021. Isolated to scattered rainfall/thunderstorm activity also occurred over remaining parts of Northwest & adjoining central India during the same period; isolated hailstorm /dust storm activity also reported from Rajasthan on one or two days of this period.
- Due to cyclonic circulation/trough over central parts of country, light to moderate isolated/scattered rain/thundershower occurred over central India during past week (18th to 24th March, 2021).
- Under the influence of strong lower level southwesterly winds from the Bay of Bengal, fairly widespread to widespread rainfall with heavy falls at isolated places are likely over Northeast India during 29th March to 03rd April, 2021. Flood like situation may also occur over the region during this period.
- **Heat wave conditions at isolated pockets are very likely over Saurashtra & Kutch and Konkan & Goa during 25th - 27th March and over north Gujarat region on 27th & 28th March, 2021.**

Weekly Rainfall Scenario (18th to 24th March, 2021)

During the week, rainfall for the country as a whole was below Long Period Average (LPA) by 30%. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	5.7	8.1	-30%
Northwest India	13.3	13.9	-5%
Central India	2.9	1.6	78%
South Peninsula	1.0	3.7	-73%
East & northeast India	2.9	16.2	-82%

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

Pre-monsoon Rainfall Scenario (01st to 24th March, 2021)

For the country as a whole, cumulative rainfall during this year's pre-monsoon season till 24th March, 2021 is below LPA by 41%. 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	13.6	23.0	-41%
Northwest India	24.2	38.3	-37%
Central India	4.9	6.5	-24%
South Peninsula	3.6	10.9	-67%
East & northeast India	23.9	43.3	-45%

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

Weekly maximum temperature Scenario (18th to 24th March, 2021)

- The maximum temperatures were between 32 to 38°C over most parts of the country outside Western Himalayan Region & adjoining plains. These were above normal by 3 to 5°C over most parts of northeast India, below normal by 1 to 3°C over north Peninsular India and near normal over remaining parts of the country (**Annexure III**).

Chief synoptic conditions as on 25th March, 2021

- A Western Disturbance now as a trough in mid tropospheric westerlies with its axis at 5.8 km above mean sea level along Long 86°E to the north of Lat 24°N.
- A wind discontinuity at lower levels runs from Rayalaseema to south Odisha across Coastal Andhra Pradesh.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from 28th March.

Large scale features as on 25th March, 2021

- Currently, moderate La Niña conditions are prevailing over equatorial Pacific and Sea Surface Temperatures (SSTs) are below normal over central & eastern equatorial Pacific Ocean. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates warming of SSTs over Nino 3.4 region during the coming season and there is a possibility of transition of La Niña conditions to ENSO neutral conditions during the forthcoming season. However, model skill during this period is supposed to be limited because of the spring barrier.
- At present, neutral Indian Ocean Dipole (IOD) conditions are observed over Indian Ocean and the latest MMCFS forecast indicates neutral IOD conditions are likely to continue up to May, June & July (MJJ) months and negative IOD conditions likely to develop thereafter.
- The Madden Julian Oscillation (MJO) index lies in Indian Ocean (Phase 3) with amplitude nearly one. As per the latest projections, it is likely to move over Maritime Continent (Phase 4) with amplitude nearly one during next one week.

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (25th to 31st March, 2021) and Week 2 (01st to 07th April, 2021)

Rainfall for week 1: (25th to 31st March, 2021)

- A fresh Western Disturbance very likely to cause scattered to fairly widespread rainfall/snowfall over Western Himalayan Region with thunderstorm/ lightning over Himachal Pradesh & Uttarakhand and thunderstorm, lightning & hail over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during 28th- 29th March, 2021.
- **Under the influence of strong lower level southwesterly winds from the Bay of Bengal, fairly widespread to widespread rainfall with thunderstorm/thundersquall/lightning and heavy falls at isolated places are likely over Northeast India during 29th March to 03rd April, 2021. It may cause landslides and low level inundation at some places during same period.**
- Isolated to scattered rainfall/thundershowers are very likely over Tamilnadu, Puducherry & Karaikal, Telangana, Kerala & Mahe and coastal & south Interior Karnataka during most days of the week 1 (**Annexure IV**).

- **Cumulatively, above normal to above rainfall very likely over parts of northeastern states and Kerala and below normal over remaining parts of the country (Annexure V).**

Rainfall for week 2: (01st to 07th April, 2021)

- **Due to strong lower level southwesterly winds from the Bay of Bengal to northeastern states, fairly widespread to widespread rainfall with heavy falls at isolated places are likely over this region during 1st half of the week 2. As a result above normal rainfall activity likely over this region.**
- **Due to absence of any active Western Disturbance, rainfall activity is likely to be below normal over northwest India. It is likely to be below normal to normal over remaining parts of the country (Annexure V).**

Temperature for week 1 & 2: (25th March to 07th April, 2021)

- **Maximum temperatures are very likely to rise gradually by 4-6°C over Northwest India during first half of the week 1. Gradual rise in maximum temperatures by 3-5°C over most parts of Central India and by 2-4°C over most parts of East, West and peninsular India during first half of the week 1.**
- **No heat wave conditions very likely over the country during next 4-5 days except Saurashtra & Kutch and Konkan & Goa where **heat wave conditions are very likely at isolated pockets during 25th - 27th March and over north Gujarat region during 27th - 28th March, 2021.****
- **During week 2, due to likely dry weather over most parts of the country (outside northeast India), the maximum temperatures are very likely to rise gradually over most parts of the country. Hence, normal to above normal maximum temperatures likely over northwest, east India and east coast. These are likely to be below normal by 1-2°C over north eninsular & adjoining central India (Annexure VI).**

Cyclogenesis:

- **There is a low probability of cyclogenesis over southeast BoB during the latter half of week 1 (26.03.2021 to 01.04.2021).**

Next weekly update will be issued on next Thursday i.e. 01st April, 2021

Annexure I

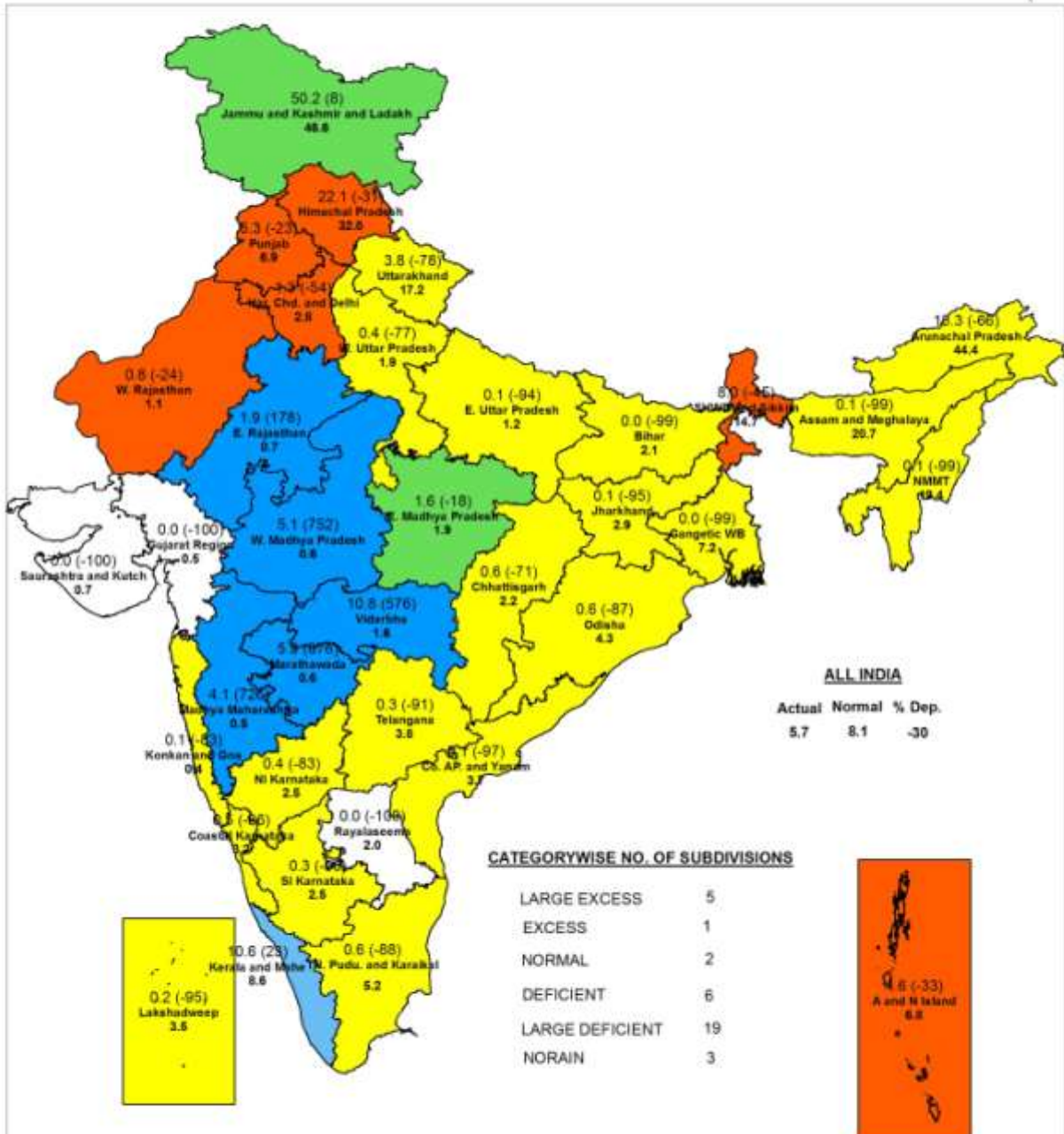


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HYDROMET DIVISION, NEW DELHI

MET. SUBDIVISION RAINFALL MAP

Week : 18-03-2021 To 24-03-2021



Legend

Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-89% 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.

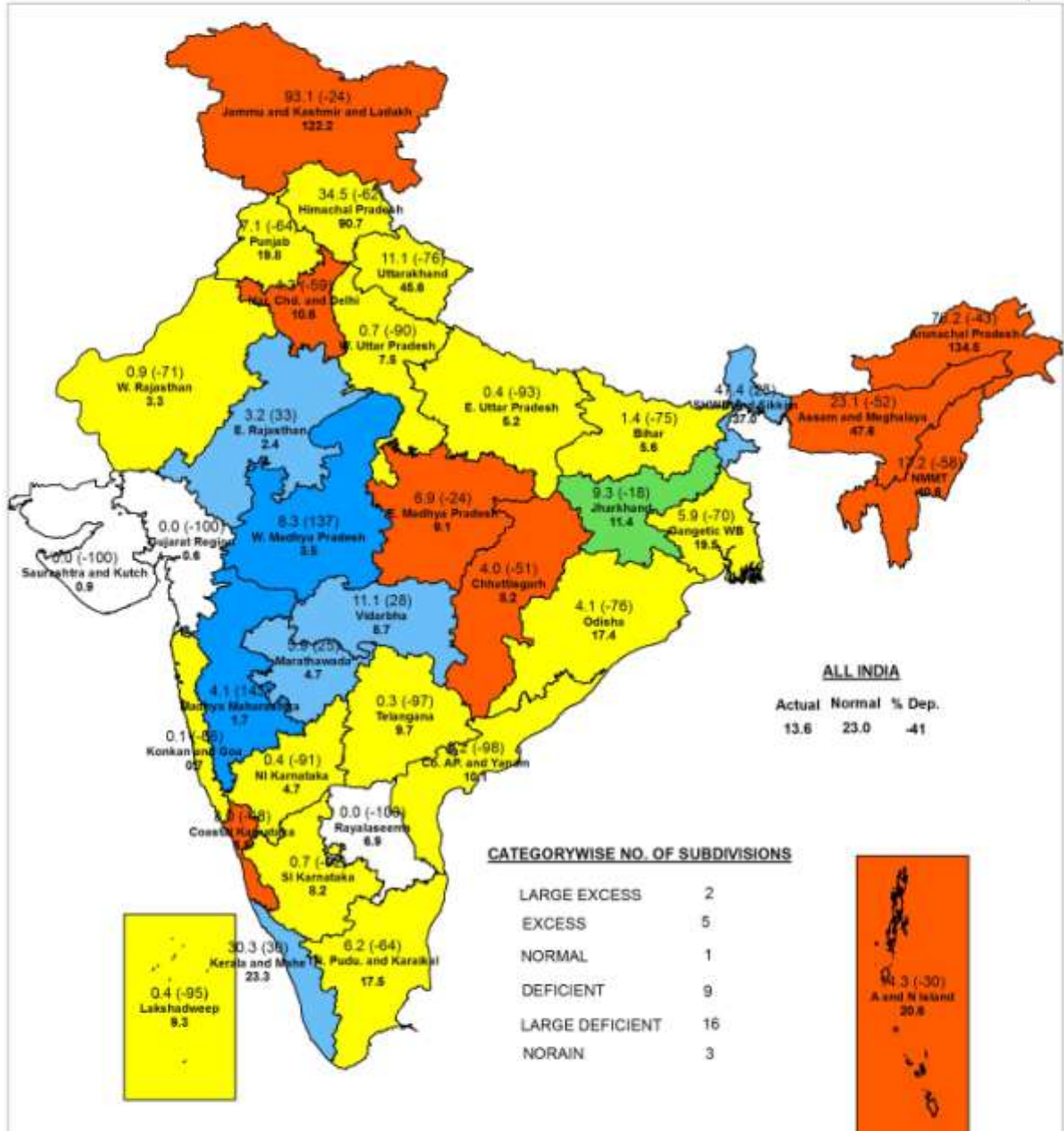


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HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-03-2021 To 24-03-2021



Legend

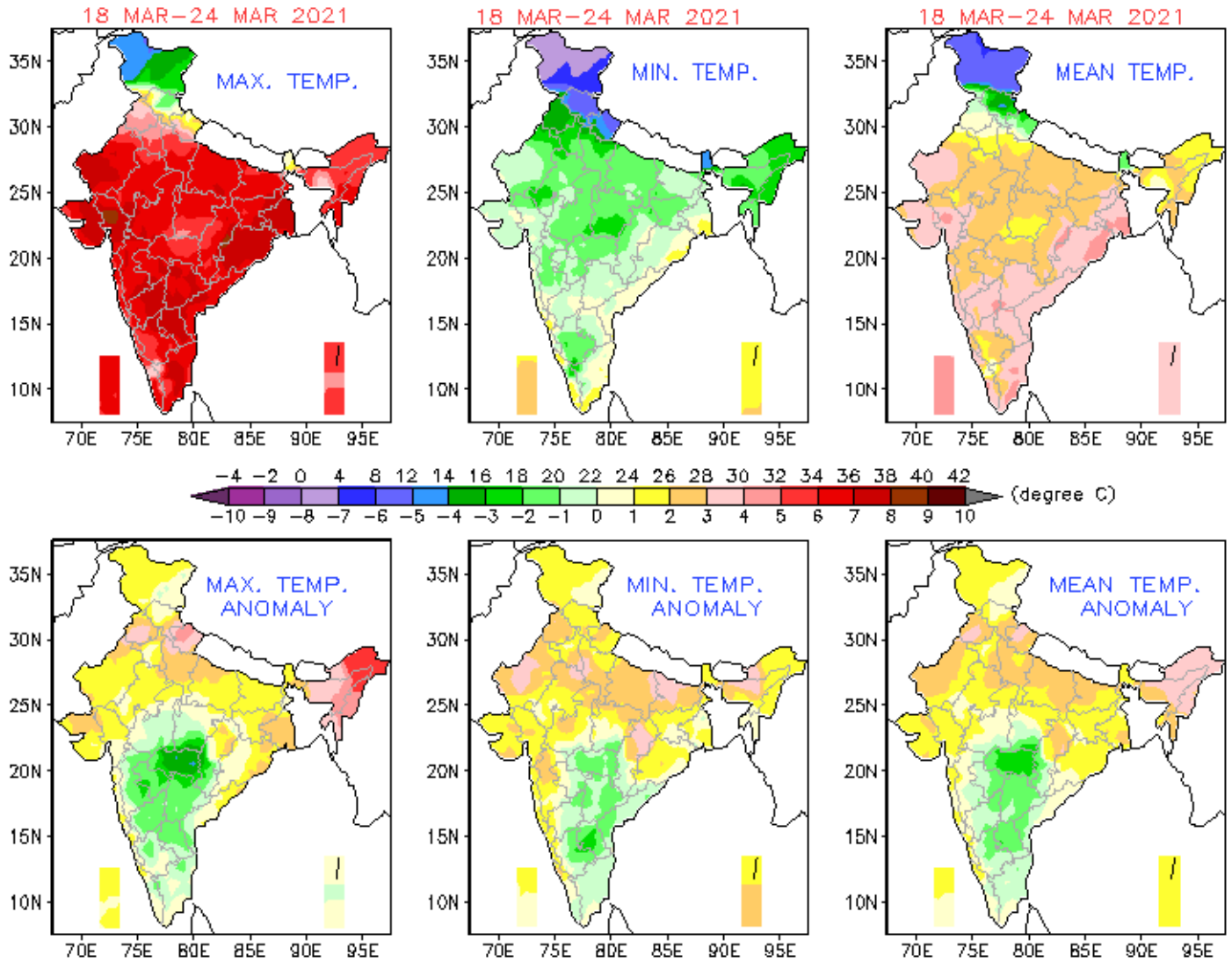
Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

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.

Annexure III

TEMPERATURE FOR WEEK ENDING 24 MAR & ITS ANOMALY



Annexure IV

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

Sr. No	MET.SUB-DIVISIONS	25 MAR	26 MAR	27 MAR	28 MAR	29 MAR	30 MAR	31 MAR
1	ANDAMAN & NICO.ISLANDS	ISOL	ISOL	SCT	SCT	SCT	SCT	ISOL
2	ARUNACHAL PRADESH	SCT ^L	ISOL	ISOL	ISOL	SCT ^L	FWS	FWS
3	ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	SCT ^L	FWS ^{L#}	FWS [*]	FWS [*]
4	NAGA.MANI.MIZO.& TRIPURA	D	D	ISOL	SCT ^L	FWS ^{L#}	FWS [*]	FWS [*]
5	SUB-HIM.W. BENG. & SIKKIM	ISOL ^{L#}	ISOL ^L	D	ISOL ^L	ISOL ^L	ISOL	ISOL
6	GANGETIC WEST BENGAL	D	D	D	ISOL ^L	ISOL ^{L#}	D	D
7	ODISHA	D	D	D	ISOL ^L	ISOL ^{L#}	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	D	D	D	ISOL ^L	ISOL ^L	D	D
13	HARYANA CHD. & DELHI	D	D	D	D	D	D	D
14	PUNJAB	ISOL	D	D	D	D	D	D
15	HIMACHAL PRADESH	D	D	D	SCT ^{L#}	ISOL ^L	D	D
16	JAMMU & KASHMIR AND LADAKH	D	D	D	FWS ^{L#}	SCT ^L	D	D
17	WEST RAJASTSAN	ISOL	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	ISOL [↓]	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	ISOL	D	D	D	D	D
32	COASTAL KARNATAKA	ISOL ^L	D	ISOL	ISOL	ISOL	ISOL	D
33	NORTH INTERIOR KARNATAKA	ISOL ^L	D	D	D	D	D	D
34	SOUTH INTERIOR KARNATAKA	ISOL	D	ISOL	ISOL	ISOL	ISOL	D
35	KERALA & MAHE	SCT ^L	ISOL ^L	SCT ^L	SCT ^L	SCT ^L	SCT	ISOL
36	LAKSHADWEEP	SCT ^L	D	SCT ^L	SCT ^L	SCT ^L	D	D

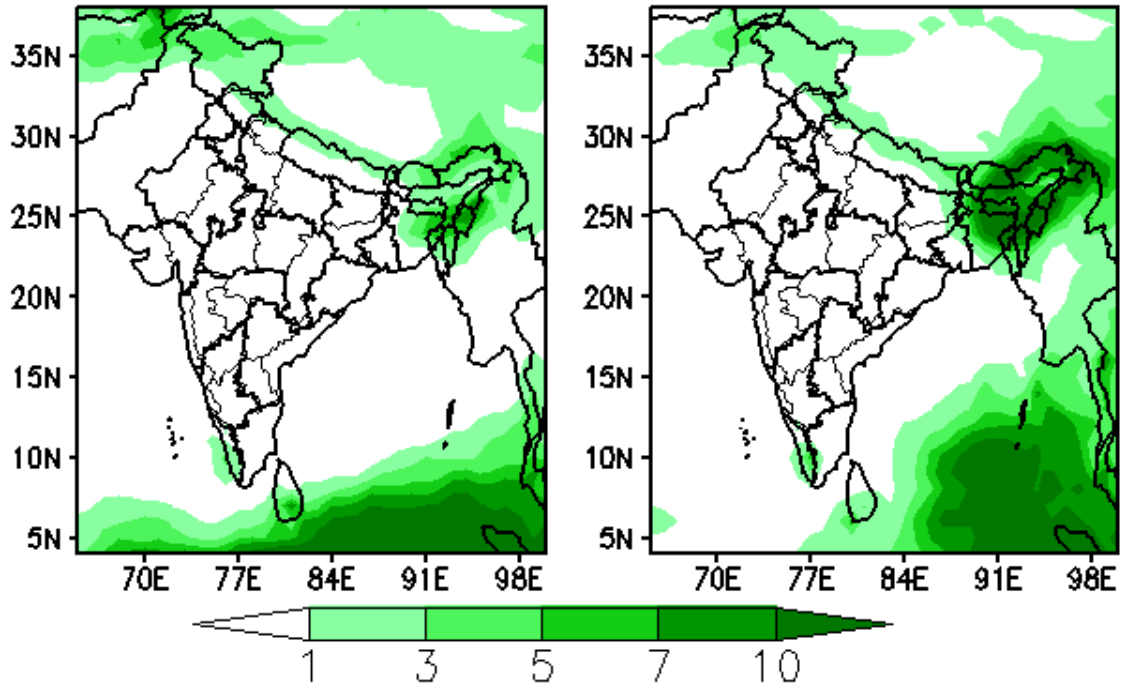
LEGENDS:

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 Duststorm	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: 26Mar-01Apr)

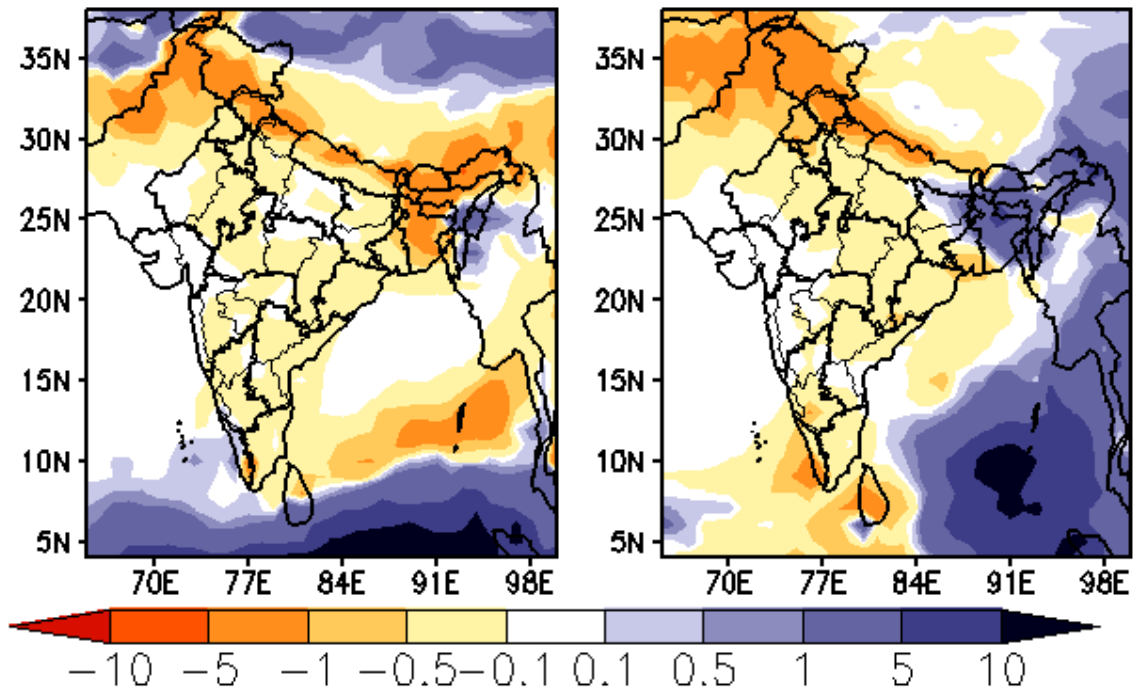
(Week2: 02Apr-08Apr)



Forecast Rainfall Anomaly (mm/day)

(Week1: 26Mar-01Apr)

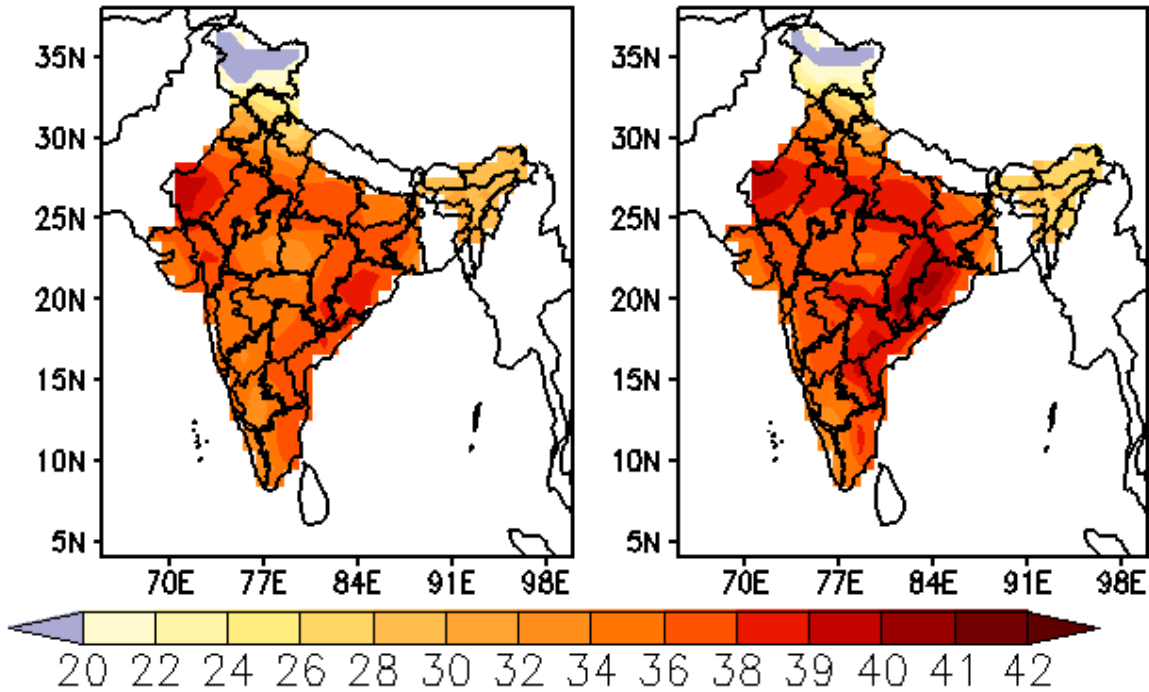
(Week2: 02Apr-08Apr)



MME Bias corrected forecast Tmax (Deg)

(Week1: 26Mar-01Apr)

(Week2: 02Apr-08Apr)



MME forecast Tmax anomaly (Deg C)

(Week1: 26Mar-01Apr)

(Week2: 02Apr-08Apr)

