



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

Dated: 06th February, 2020

Current Weather Status and Outlook for next two weeks

High lights of the past week

- **Cold Wave conditions** had been observed at most places over Punjab on one day; at many places over Punjab on one day; at a few places over Haryana, Chandigarh & Delhi on two days during the week. The **lowest minimum temperature of 2.1^oC** had been recorded at **Bhatinda (Punjab) on 5th February 2020** over the plains of the country during the week.
- **Dense to very dense** fog had been observed at isolated places over Punjab on five days, over Haryana, Chandigarh & Delhi on four days, over Uttarakhand, Gangetic West Bengal and Chhattisgarh on one day each during the week.

Weekly Rainfall Scenario (30th January to 05th February 2020)

During the week, rainfall was above below Long Period Average (LPA) by 59% over the country as a whole. Details are given below:

Regions	Actual Rainfall(mm)	Normal Rainfall(mm)	% Departure from LPA
Country as a whole	1.7	4.3	-59
Northwest India	1.0	7.4	-87
Central India	2.3	1.8	+29
South Peninsula	0.6	1.1	-45
East & northeast India	3.4	7.1	-52

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

Seasonal Rainfall Scenario (01st January to 05th February 2020)

For the country as a whole, cumulative rainfall during the winter season till 5th February, 2020 is 43% above LPA. Details of the rainfall distribution over the four road geographical regions of India are given below:

Regions	Actual Rainfall(mm)	Normal Rainfall(mm)	% Departure from LPA
Country as a whole	29.1	20.3	+43
Northwest India	57.4	38.6	+49
Central India	15.8	8.7	+81
South Peninsula	7.0	8.9	-21
East & northeast India	29.8	23.5	+27

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

Chief synoptic conditions as on 06th February 2020

- A feeble Western Disturbance seen a cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir at mid-tropospheric levels.
- A cyclonic circulation lies over Madhya Maharashtra & neighbourhood and a trough in easterlies at runs from South Interior Karnataka to the centre of the above cyclonic circulation at lower tropospheric levels.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from 11th February.

Large scale features as on 06th February 2020

- Currently, warm El Niño Southern Oscillation (ENSO) neutral conditions are prevailing over equatorial Pacific Ocean and the latest Monsoon Mission Coupled Forecast System (MMCFS) forecast indicates cooling of SSTs in coming season and ENSO-neutral conditions are likely to continue for the entire forecast period.
- At present, weak positive Indian Ocean Dipole (IOD) conditions are observed over Indian and the latest MMCFS forecast indicates positive IOD conditions are likely to weaken further and turn into neutral IOD conditions during JFM season.
- The convectively active phase of the Madden–Julian Oscillation (MJO) is currently in Phase-5 with amplitude nearly 1. It is likely to enter into Phase -6 with same amplitude during next one week.

Forecast for next two weeks

Weather systems and associated Precipitation & temperature pattern during week 1 (06th – 13th February 2020) and week 2 (14th - 20th February 2020)

Week 1 (06th – 13th February 2020)

- Under the influence of current Western Disturbance light isolated rain/snow very likely to occur over Western Himalayan region during next two days, Thereafter under the influence of a fresh Western Disturbance light/moderate isolated to scattered rain/fall very likely to occur over Western Himalayan region during 11th to 13th February, 2020.
- Due to confluence between westerlies and easterly winds from Bay of Bengal at lower tropospheric levels, scattered to fairly widespread rainfall/thundershowers over Vidarbha, Chhattisgarh. Gangetic West Bengal and Odisha during next 3 days. **(Annexure III & IV).**
- Cumulative precipitation is likely to be below normal over Jammu & Kashmir, Ladakh, Himachal Pradesh, Uttarakhand, Punjab, Arunachal Pradesh, Assam & Meghalaya. It is likely to be above normal over Odisha, Chhattisgarh, Telangana and coastal Andhra Pradesh. No rain likely over remaining parts of the country. **(Annexure III & IV).**

Week 2: (14th - 20th February 2020)

- Cumulative precipitation is likely to be below normal over Jammu & Kashmir, Ladakh, Himachal Pradesh, Uttarakhand, Punjab, Arunachal Pradesh, Assam & Meghalaya. No rain likely over remaining parts of the country.

Minimum Temperatures

Week 1: (06th – 13th February 2020)

- During week 1, night minimum temperatures are likely to be below normal over major parts of India, outside interior Karnataka, Rayalaseema, south coastal Andhra Pradesh and Tamil Nadu, where they are likely to be markedly above normal during some of the days. **(Annexure V).**

Minimum Temperatures

Week 2: (14th - 20th February 2020)

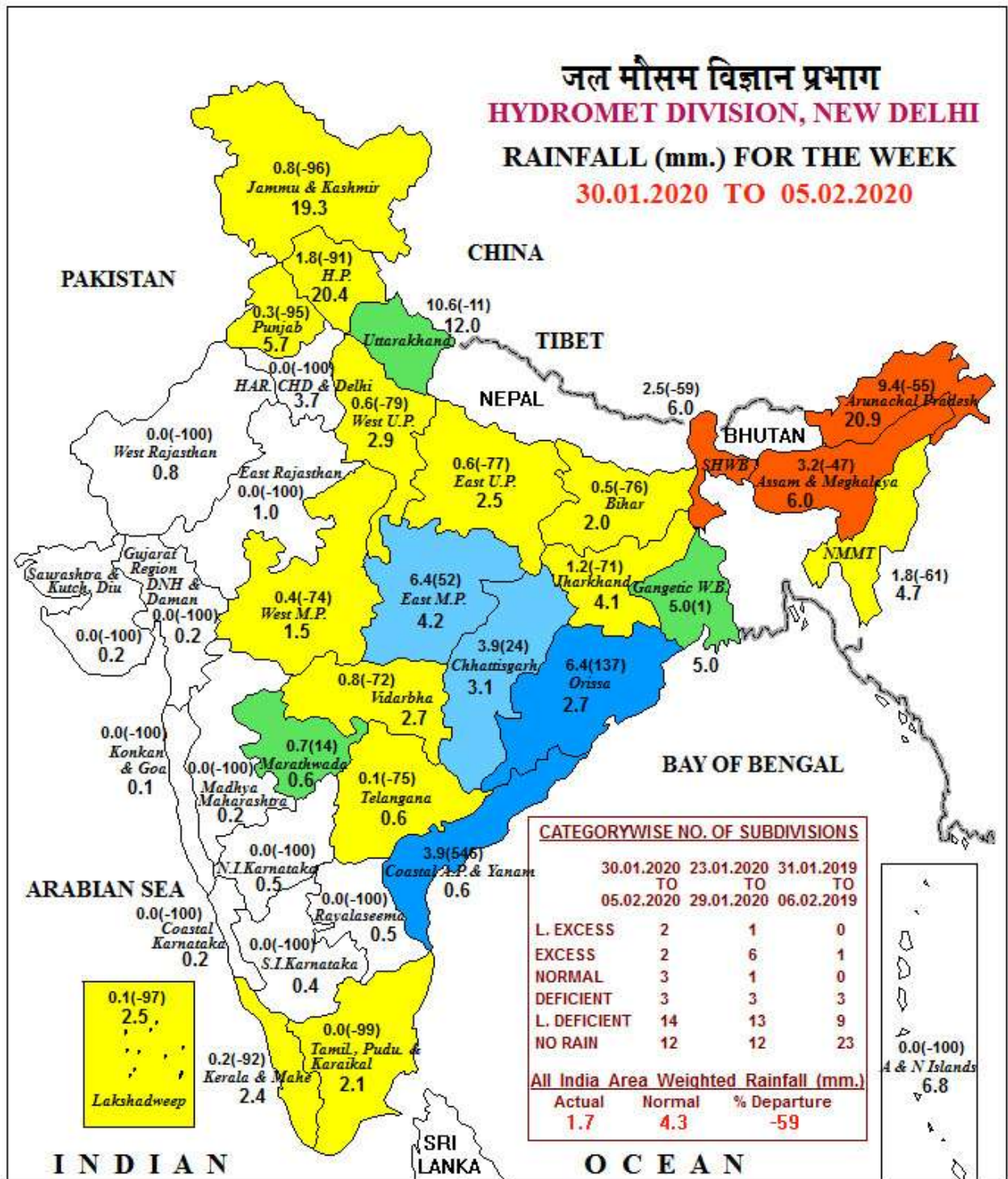
- During week 2, it is likely to be below normal over most parts of the country outside some parts of west coast **(Annexure V).**

Cyclogenesis probability:

- No cyclogenesis is likely over North Indian Ocean during weeks 1 and 2.

Next weekly update will be issued on Thursday, the 13th February 2020.

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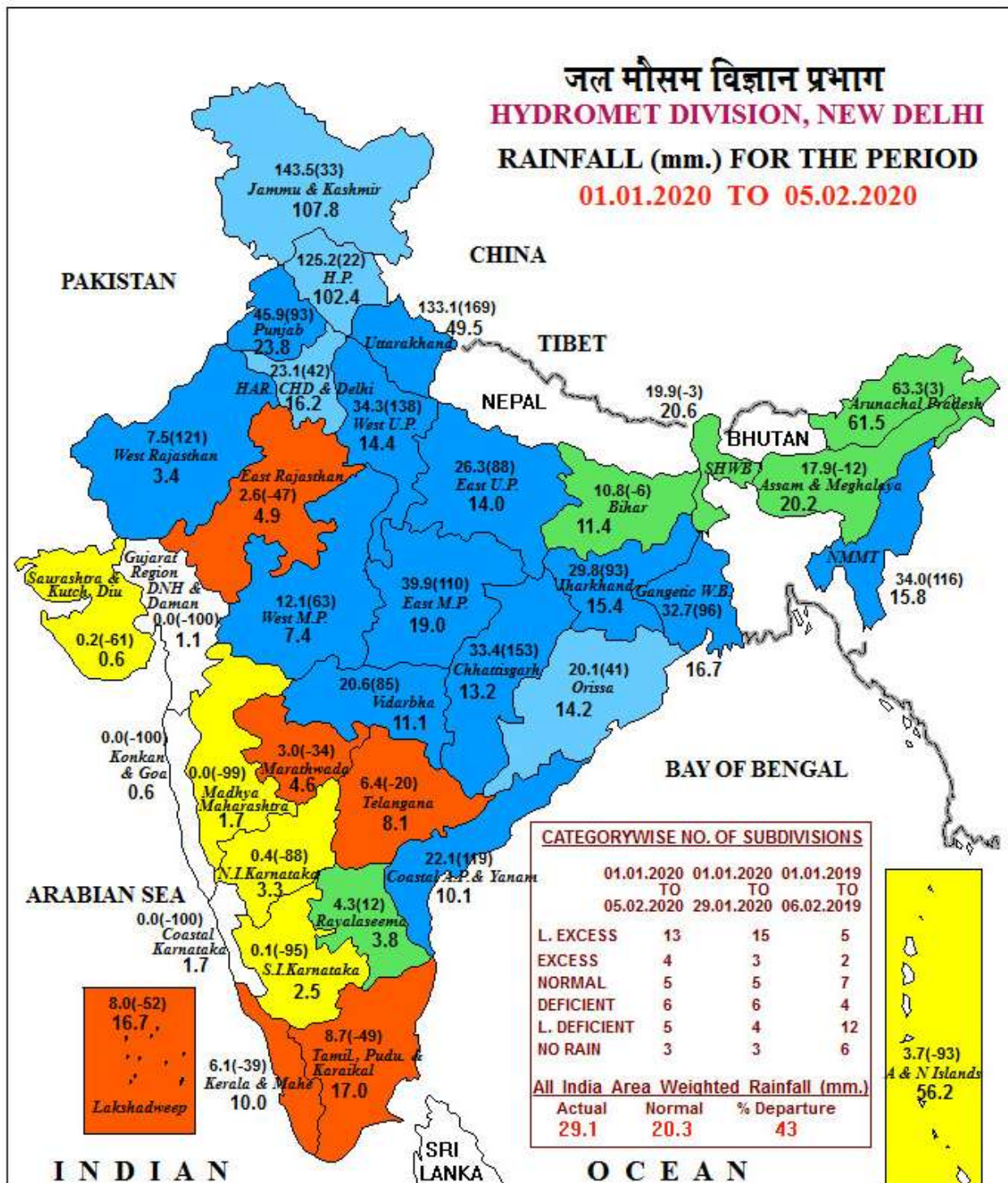
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
 ■ DEFICIENT [-20% TO -59%] ■ L. DEFICIENT [-60% TO -99%] □ NO RAIN [-100%] □ NO DATA

NOTES:

(a) Rainfall figures are based on operational data.

(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

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Annexure-III

TABLE-1(B)

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS -2020

Sr. No	MET.SUB-DIVISIONS	06 FEB	07 FEB	08 FEB	09 FEB	10 FEB	11 FEB	12 FEB
1	ANDAMAN & NICO.ISLANDS	D	D	D	ISOL	ISOL	ISOL	D
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	D	D
3	ASSAM & MEGHALAYA	D	D	ISOL	ISOL	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	ISOL	SCT ⁵	ISOL ⁵	D	D
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	ISOL	D	D	D	D	D
6	GANGETIC WEST BENGAL	ISOL	SCT ⁵	SCT	D	D	D	D
7	ODISHA	SCT ⁵	FWS [#]	FWS ⁵	ISOL ⁶	D ⁶	D	D
8	JHARKHAND	ISOL	SCT	ISOL	D	D	D	D
9	BIHAR	D	D	ISOL	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 ⁶	ISOL ⁶	D	D	D	D	D
13	HARYANA CHD. & DELHI	D ⁶ ↓	D ⁶ ↓	D ⁶ ↓	D	D	D	D
14	PUNJAB	D ⁶ ↓	D ⁶ ↓	D ⁶ ↓	D	D	D	D
15	HIMACHAL PRADESH	ISOL	ISOL	D	D	D	ISOL	ISOL
16	JAMMU & KASHMIR	ISOL	D	D	D	D	SCT	SCT
17	WEST RAJAST SAN	D ↓	D ↓	D ↓	D	D	D	D
18	EAST RAJAST SAN	D ↓	D ↓	D ↓	D	D	D	D
19	WEST MADHYA PRADESH	D	D	D	D	D	D	D
20	EAST MADHYA PRADESH	ISOL	ISOL	D	D	D	D	D
21	GUJARAT REGION D.D. & N.H.	D	D	D	D	D	D	D
22	SAURAST RA KUTCH & DIU	D	D	D	D	D	D	D
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	D	D	D	D	ISOL	D	D
25	MARATHAWADA	D	D	ISOL	ISOL	ISOL	D	D
26	VIDARBHA	SCT ⁵	SCT ⁵	ISOL	D	D	D	D
27	CHHATTISGARH	SCT ⁵	FWS	SCT ⁵	ISOL	D	D	D
28	COASTAL A. PR. & YANAM	ISOL	ISOL	SCT ⁵	SCT	ISOL	ISOL	ISOL
29	TELANGANA	D	ISOL	SCT ⁵	ISOL	ISOL	ISOL	D
30	RAYALASEEMA	D	D	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMIL PUDU. & KARAİKAL	D	D	ISOL	ISOL	ISOL	ISOL	D
32	COASTAL KARNATAKA	D	D	D	D	D	D	D
33	NORT'S INT.KARNATAKA	D	D	D	ISOL	ISOL	ISOL	D
34	SOUT'S INT.KARNATAKA	D	D	D	ISOL	ISOL	ISOL	D
35	KERALA & MAHE *	ISOL	ISOL	ISOL	ISOL	D	D	D
36	LAKSHADWEEP	D	D	D	D	D	D	D

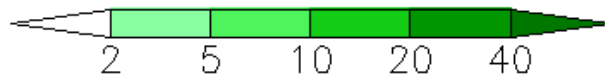
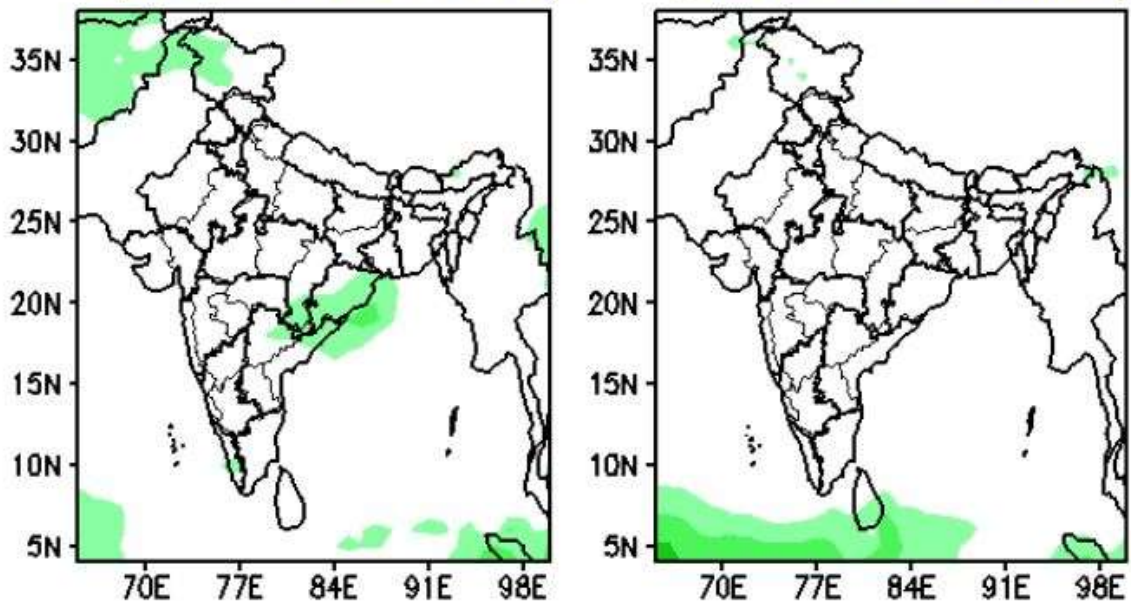
LEGENDS:

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
			NIL RAINFALL
⁵	Heavy Rainfall (64.5-115.5 mm)	⁵	Heavy to Very Heavy Rainfall (115.6-204.4 mm)
		⁵	Extremely Heavy Rainfall (204.5 mm or more)
⁶	FOG	[*]	SNOWFALL
		[#]	HALSTORM
			↓ COLD WAVE (-4.5 °C to -6.4 °C)
			↓ SEVERE COLD WAVE (< -6.4)
⁵	TSUNDERSTORM WITH SQUALL/GUSTY WIND	^{DS/TS}	DUST/TSUNDERSTORM
		[†]	HEAT WAVE (+4.5 °C to +6.4 °C)
		^{††}	SEVERE HEAT WAVE (> +6.4)

Forecast Rainfall (mm/day)

(Week1: 07Feb-13Feb)

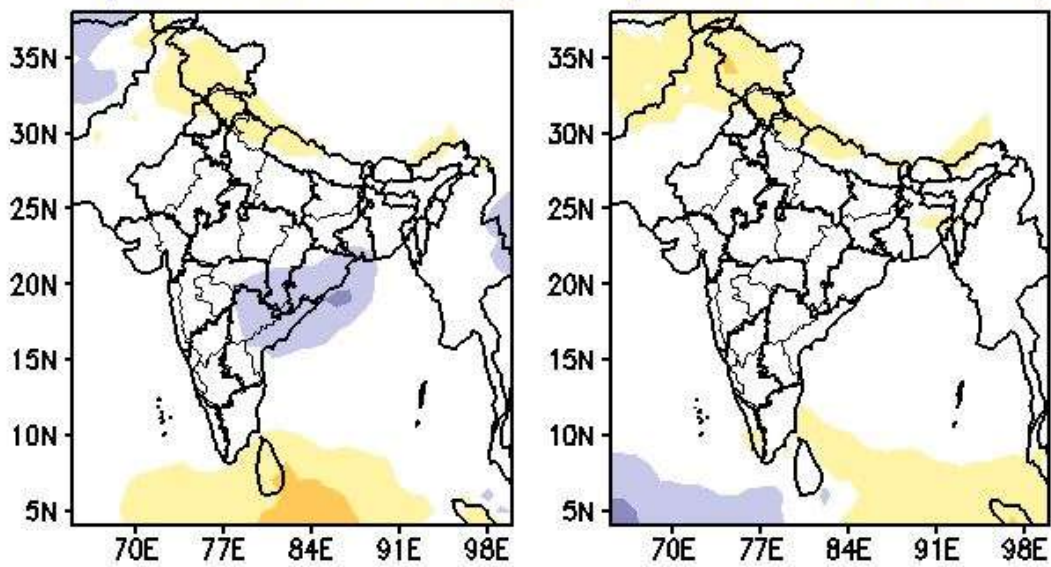
(Week2: 14Feb-20Feb)



Forecast Rainfall Anomaly (mm/day)

(Week1: 07Feb-13Feb)

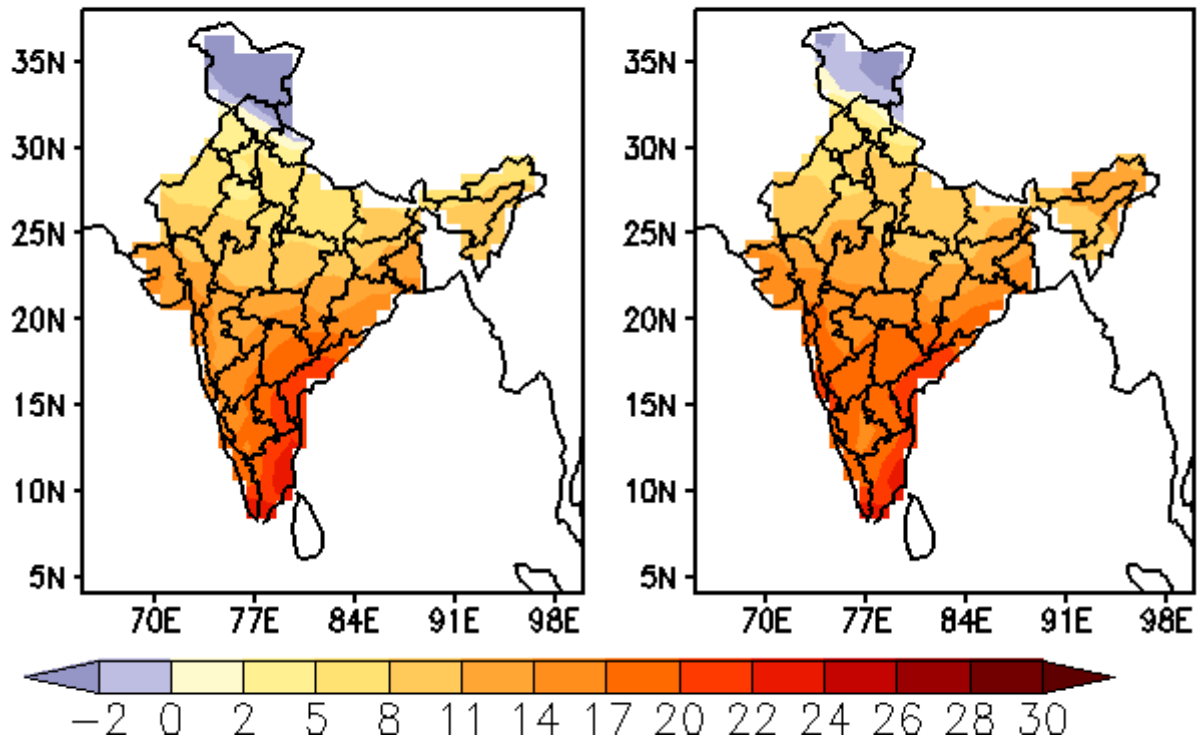
(Week2: 14Feb-20Feb)



MME Bias corrected forecast Tmin (Deg)

(Week1: 07Feb-13Feb)

(Week2: 14Feb-20Feb)



MME forecast Tmin anomaly (Deg C)

(Week1: 07Feb-13Feb)

(Week2: 14Feb-20Feb)

