



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

Dated: 15 February 2018

Current Weather Status and Outlook for next two weeks

Highlights of the past week 8th –14th February, 2018

Rainfall:

Interaction of low level easterlies with an active western disturbance and also due to the presence of an induced cyclonic circulation over West Rajasthan & neighbourhood, widespread rain/snow occurred over Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 12th and 13th February with isolated heavy falls over Jammu & Kashmir on 13th. In addition to this, fairly widespread to widespread rainfall activity had been observed over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh and Vidarbha and scattered to fairly widespread rainfall activity was observed over East Uttar Pradesh on 13th and 14th February.

Thunderstorm Activity:

Thunderstorm accompanied with hailstorm had been observed over Vidarbha, Marathwada, Chhattisgarh and East Madhya Pradesh during 11-12 February 2018.

Fog:

Dense to very dense fog observed at a few places over Haryana and at isolated places over Chandigarh and Delhi, Madhya Pradesh, north Rajasthan, Odisha and Tripura on one to two days during the week.

Cold Wave:

Cold wave conditions prevailed at isolated places over Punjab, Haryana and north Rajasthan on one day during the week. The lowest minimum temperature of 3.0 °C was recorded at Sikar (East Rajasthan) in the plains of northwest India on 08th February 2018. The lowest maximum temperature of 15.6° C was recorded at Hardoi (West Uttar Pradesh) in the plains of northwest India on 12th February 2018. Detail of temperature distribution during the week from 8th to 14th February 2018 is given in (Annexure-III).

Weekly Rainfall Scenario (8th-14th February, 2018)

During the week, rainfall was above Long Period Average (LPA) by 76 % over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	8.5	4.8	76
Northwest India	15.2	9.2	66
Central India	7.1	2.0	255
South Peninsula	4.5	1.6	184
East & northeast India	3.2	6.0	-47

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

Winter Season Rainfall Scenario (1st January-14th February, 2018)

For the country as a whole, cumulative rainfall of winter season upto 14th February has been 58% below LPA. Details of the rainfall distribution over the four broad homogeneous regions of India are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	12.0	28.8	-58
Northwest India	19.2	54.2	-64
Central India	7.1	12.0	-41
South Peninsula	8.5	10.5	-19
East & northeast India	61.8	87.6	-29

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

Chief synoptic features

- The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level today runs roughly along Longitude 94°E to the north of Latitude 22°N.
- The other Western Disturbance as a trough in mid tropospheric westerlies with its axis at 3.1 km above mean sea level today runs roughly along Longitude 68°E to the north of Latitude 30°N.
- A fresh Western disturbance is likely to affect Western Himalayan region from 20th February onwards.

Large scale features as on 15th February, 2018

- Current Nino 3.4 region SST anomaly value is -0.9°C .
- Madden Julian Oscillation (MJO) is currently in phase 7 with amplitude > 1 . It is very likely to remain in phase 7 with amplitude >1 in coming week.
- The IOD is currently neutral with the weekly IOD index value (to 12 February) at -0.1°C . Climate models forecast it to remain neutral in the coming weeks.

Outlook for next two weeks (Till 28th February 2018)

Western Disturbance and Rainfall (Annexure IV)

- The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Longitude 94°E to the north of Latitude 22°N is likely to cause isolated rainfall activity over Arunachal Pradesh and east Assam during next 24 hours. The other Western Disturbance as a trough in mid-tropospheric westerlies roughly along Longitude 68°E to the north of Latitude 30°N is likely to cause isolated to scattered rain/snow over Jammu & Kashmir and Himachal Pradesh during next 48 hours. Strong surface winds speed reaching upto 20 to 30 kmph very likely to prevail over Gangetic plains during next 3 days.
- Isolated rainfall activity over Jammu & Kashmir till 21st February and scattered to fairly widespread over western Himalayan Region between 22nd to 28th February 2018.
- Below normal rainfall activity over western Himalayan region and adjoining plains till 21st February and above normal over Jammu & Kashmir between 22nd to 28th February 2018. (**Annexure V**)

Night minimum temperatures

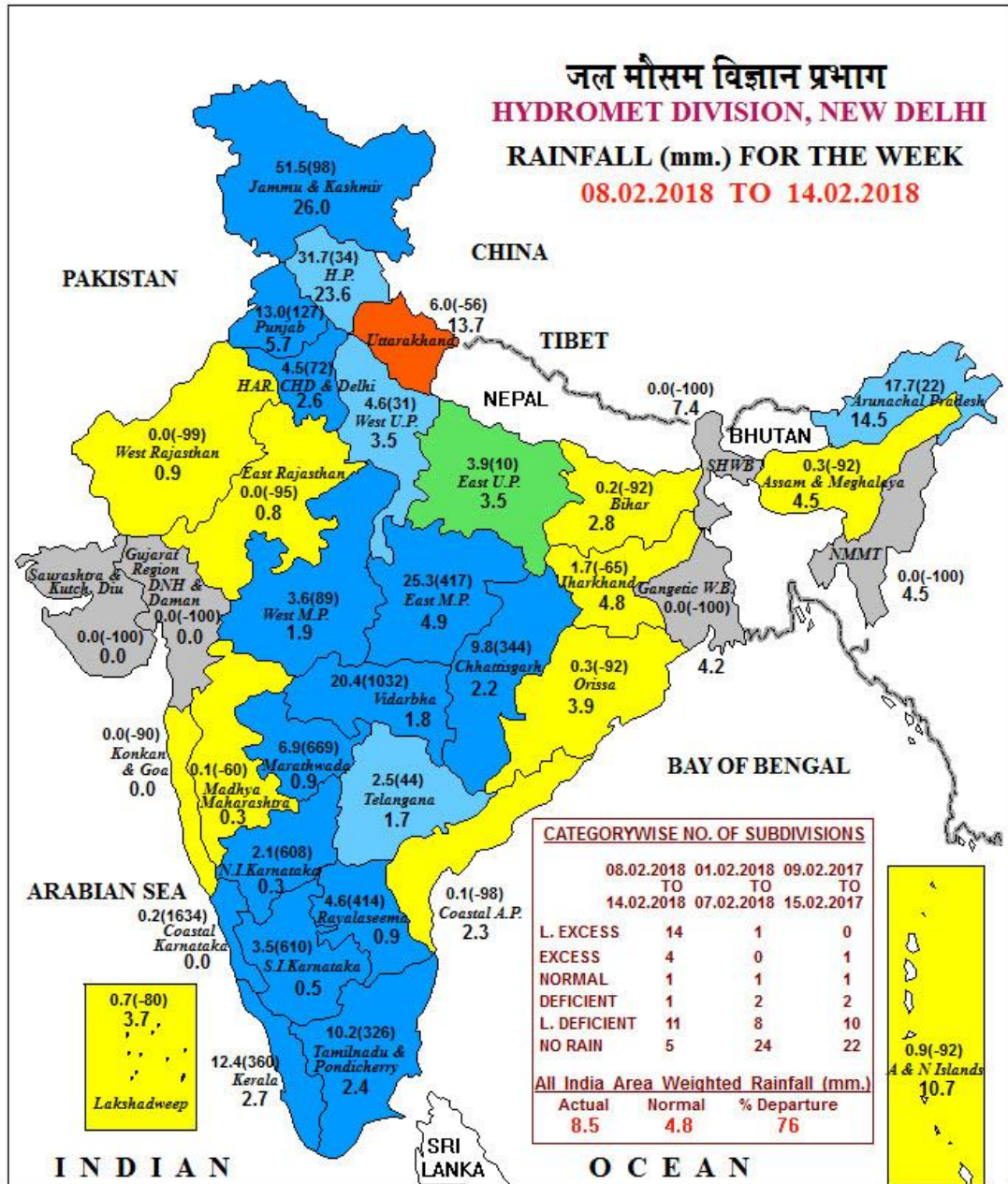
- **Minimum temperatures likely to be above normal over northwest, west and northeast India and below normal over east & adjoining peninsular India till 21st February. They are likely to be significant above normal over most parts of the country outside south and adjoining east India between 22 to 28 February**

Day maximum temperatures

- **Maximum temperatures are likely above normal over most parts of the country outside some parts of central India where it may be near normal till 21st February; and significant above normal over most parts of the country between 22nd to 28th February 2018. (Annexure VI)**

Next weekly update will be issued on Thursday, the 22 February 2018

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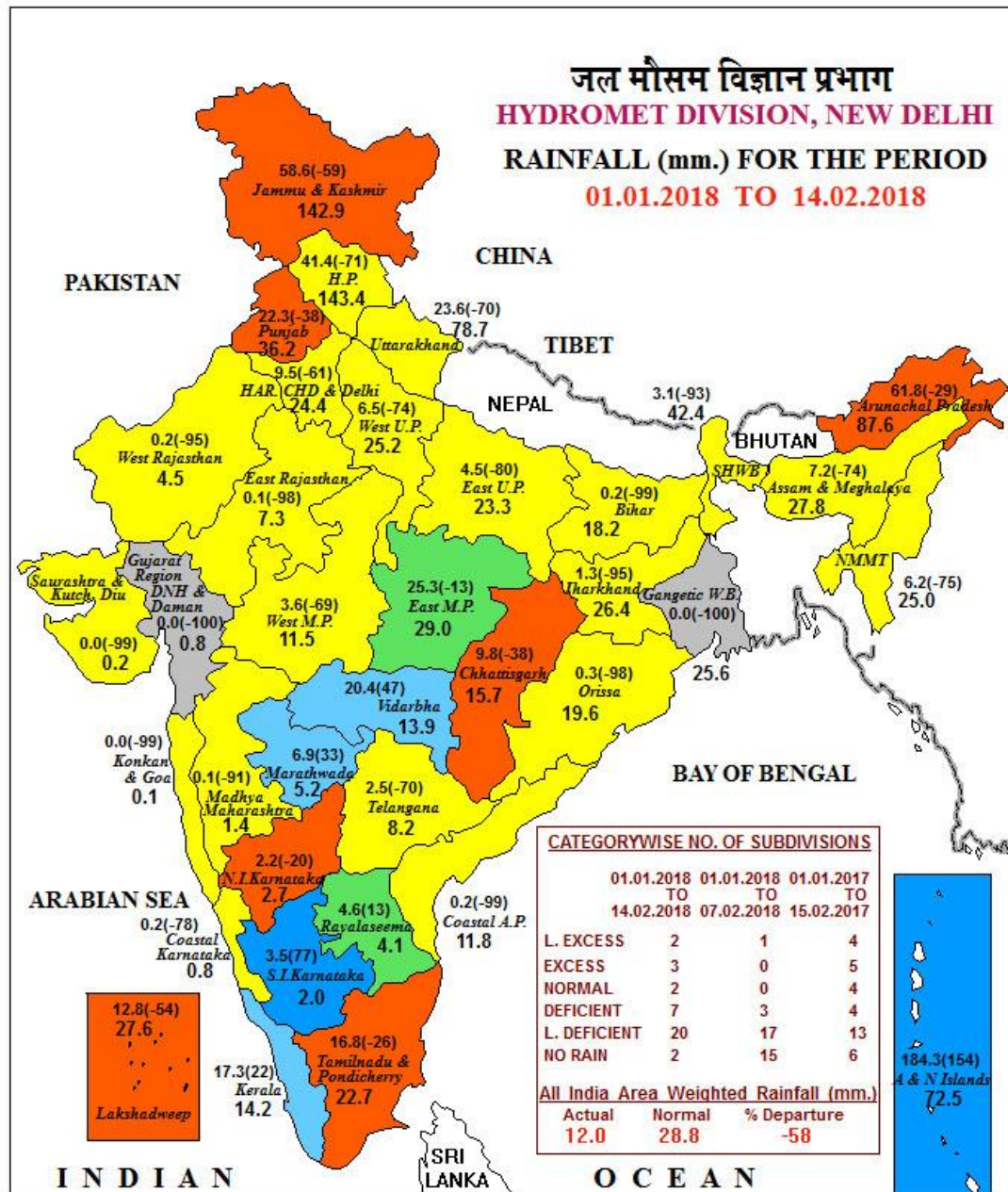


LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA

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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TABLE-1(C)

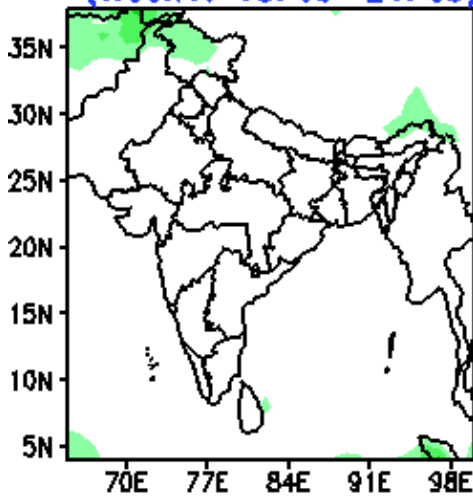
METEOROLOGICAL SUB-DIVISIONWISE DISTRIBUTION OF REALISED MINIMUM TEMPERATURE 2018								
Sr.No	MET.SUB-DIVISIONS	08 FEB	09 FEB	10 FEB	11 FEB	12 FEB	13 FEB	14 FEB
1	ANDAMAN & NICO.ISLANDS	N	N	N	N	N	N	N
2	ARUNACHAL PRADESH	N	N	N	N	N	N	N
3	ASSAM & MEGHALAYA	MAN	N	N	N	N	N	N
4	NAGA.MANI.MIZO.& TRIPURA	N	AN	MAN	N	N	AN	N
5	SUB-HIM.W. BENG. & SIKKIM	N	N	N	N	N	N	AAN
6	GANGETIC WEST BENGAL	MAN	N	N	AN	N	N	N
7	ODISHA	N	N	N	AN	N	N	N
8	JHARKHAND	N	AN	N	N	AN	AN	AAN
9	BIHAR	N	N	N	N	N	N	AAN
10	EAST UTTAR PRADESH	N	N	BN	BN	N	N	AAN
11	WEST UTTAR PRADESH	N	N	BN	BN	AN	N	N
12	UTTARAKHAND	N	N	N	N	AAN	N	N
13	HARYANA CHD. & DELHI	BN	BN	BN	N	AAN	N	N
14	PUNJAB	N	N	BN	N	AAN	N	N
15	HIMACHAL PRADESH	N	N	N	N	N	N	BN
16	JAMMU & KASHMIR	N	N	N	N	N	BN	BN
17	WEST RAJASTHAN	N	N	N	MAN	N	AN	N
18	EAST RAJASTHAN	N	N	N	MAN	N	AN	N
19	WEST MADHYA PRADESH	N	N	N	N	N	AN	N
20	EAST MADHYA PRADESH	N	AN	N	N	N	AN	N
21	GUJARAT REGION D.D. & N.H.	N	N	N	AN	N	N	AAN
22	SAURASTRA KUTCH & DIU	N	N	N	AN	N	N	AAN
23	KONKAN & GOA	N	N	N	N	N	N	N
24	MADHYA MAHARASHTRA	N	N	AN	N	N	N	AN
25	MARATHAWADA	N	N	N	N	N	N	N
26	VIDARBHA	N	N	N	AN	N	AN	N
27	CHHATTISGARH	N	AN	N	N	N	AN	N
28	COASTAL ANDHRA PRADESH	AN	N	N	N	N	N	N
29	TELANGANA	N	N	N	N	N	AN	N
30	RAYALASEEMA	AN	N	AN	AN	N	N	N
31	TAMILNADU & PUDUCHERRY	AN	AN	AN	AN	AN	N	N
32	COASTAL KARNATAKA	N	AN	N	N	N	N	N
33	NORTH INT.KARNATAKA	N	AN	N	N	N	N	N
34	SOUTH INT.KARNATAKA	AN	AN	N	AN	N	N	N
35	KERALA	N	AN	N	N	N	N	N
36	LAKSHADWEEP	N	AN	N	N	N	N	N
LEGENDS:								
N	NORMAL (N+1,N-1)°C	BN	BELOW NORMAL (N-2)°C		ABN	APRECIABLY BELOW NORMAL (N-3, -4)°C		
AN	ABOVE NORMAL (N+2)°C	MBN	MARKEDLY BELOW NORMAL (N-5 AND BELOW) °C					
AAN	APRECIABLY ABOVE NORMAL (N+3,+4)°C			MAN	MARKEDLY ABOVE NORMAL (N+5 AND ABOVE) °C			
* Cold wave conditions (Departure from Normal is(-4 °C to -5 °C and -5 °C to -6 °C)				** Severe Cold wave conditions (Departure from Normal is(-6 °C or less and -7 °C or less)				

TABLE-1(B)

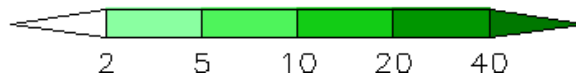
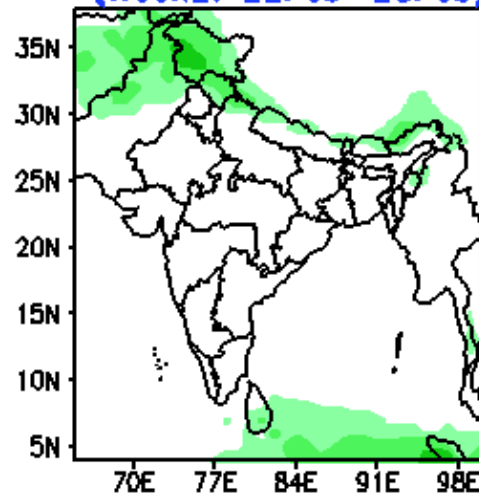
Sr. No	MET.SUB-DIVISIONS	15 FEB	16 FEB	17 FEB	18 FEB	19 FEB	20 FEB	21 FEB
1	ANDAMAN & NICO.ISLANDS	D	D	D	D	D	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	D	D	D	D	D	D
3	ASSAM & MEGHALAYA	ISOL	D	D	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	D	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	D	D	D	D	D	D	D
6	GANGETIC WEST BENGAL	D	D	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	D	D	D	D	D	D	D
13	HARYANA CHD. & DELHI	D	D	D	D	D	D	D
14	PUNJAB	D	D	D	D	D	D	D
15	HIMACHAL PRADESH	ISOL	D	D	D	D	D	ISOL
16	JAMMU & KASHMIR	SCT	ISOL	D	D	D	ISOL	SCT
17	WEST RAJASTHAN	D	D	D	D	D	D	D
18	EAST RAJASTHAN	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. & N.H.	D	D	D	D	D	D	D
22	SAURASTRA 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	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 PRADESH	D	D	D	D	D	D	D
29	TELANGANA	D	D	D	D	D	D	D
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31	TAMILNADU & PUDUCHERRY	ISOL	D	D	D	D	D	D
32	COASTAL KARNATAKA	D	D	D	D	D	D	D
33	NORTH INT.KARNATAKA	D	D	D	D	D	D	D
34	SOUTH INT.KARNATAKA	D	D	D	D	D	D	D
35	KERALA	D	D	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	NIL 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)			
• FOG	* SNOWFALL	# HAILSTORM		⚡ HEAT WAVE		⚡ SEVERE HEAT WAVE		
§ THUNDER SQUALL	DS/TS DUST/THUNDERSTORM			⚡ COLD WAVE		⚡ SEVERE COLD WAVE		

MME Actual Rainfall (mm/day)

(Week1: 15Feb-21Feb)

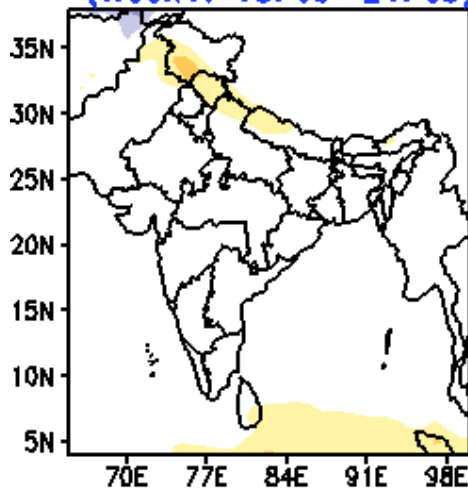


(Week2: 22Feb-28Feb)

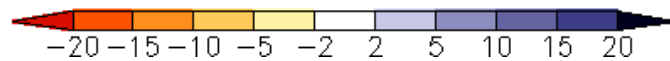
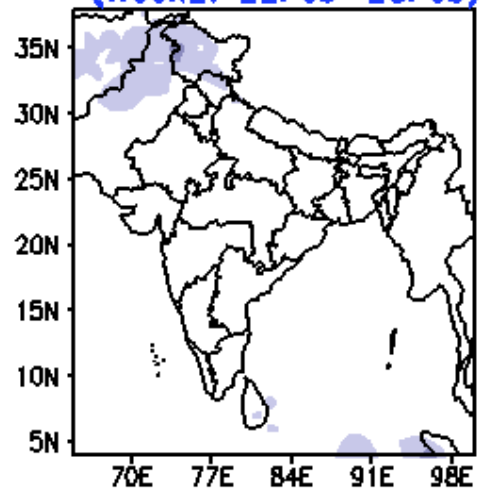


MME Rainfall Anomaly (mm/day)

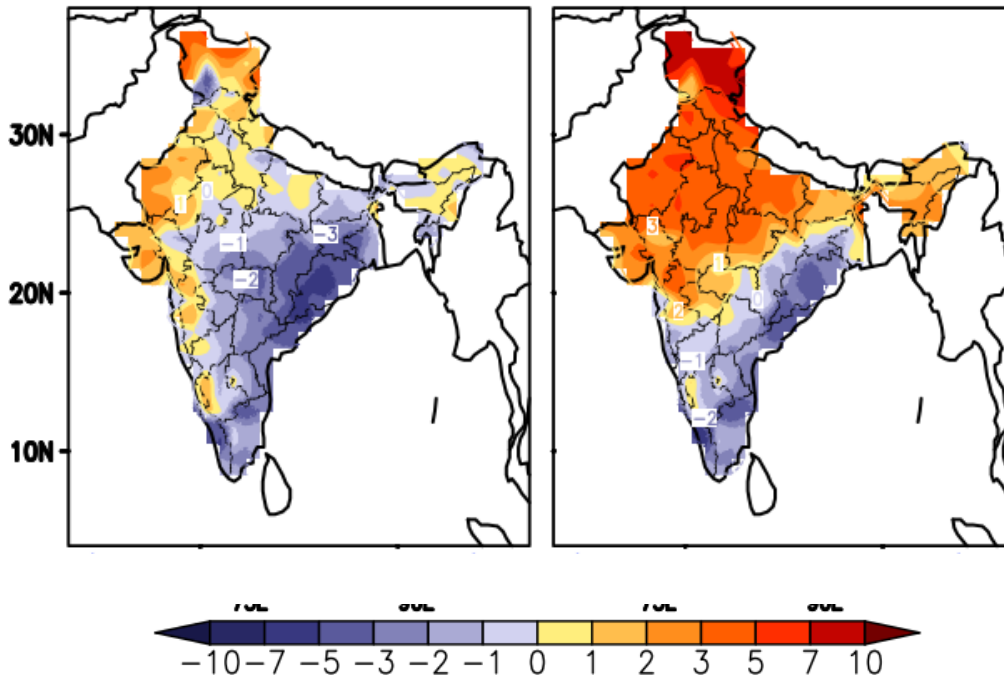
(Week1: 15Feb-21Feb)



(Week2: 22Feb-28Feb)



Minimum Temperature Anomaly (°C)
(Week1: 15Feb-21Feb) (Week2: 22Feb-28Feb)



Maximum Temperature Anomaly (°C)
(Week1: 15Feb-21Feb) (Week2: 22Feb-28Feb)

