



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

**Dated: 08 February, 2018**

## **Current Weather Status and Outlook for next two weeks**

### **Highlights of the past week**

#### **Precipitation:**

- The western disturbances accompanied with a jet stream affected northeastern states causing very light to moderate precipitation at most places over Arunachal Pradesh on a few days and at isolated places over Assam & Meghalaya and Sikkim.
- In association with easterlies, very light to moderate rainfall occurred at isolated places over Andaman & Nicobar, Tamil Nadu, Kerala and Lakshadweep on a few days.

#### **Fog:**

- Dense to very dense fog occurred at many places over East Uttar Pradesh and at a few places over West Uttar Pradesh on one or two days; at isolated places over Sub-Himalayan West Bengal and Bihar on many days, over East Uttar Pradesh on a few days and over Punjab, Assam & Meghalaya, Tripura and Gangetic West Bengal on one or two days during the week.

#### **Minimum Temperatures:**

- No cold wave condition prevailed. However, the minimum temperatures were markedly below normal to below normal on many days over Coastal Andhra Pradesh, Telangana, Rayalaseema; on a few days over Chhattisgarh, Coastal & South Interior Karnataka and on one or two days over Odisha, Jharkhand, Konkan & Goa, Vidarbha and North Interior Karnataka.
  - The lowest minimum temperature of 2.4°C was recorded at Churu (West Rajasthan) in the plains of the country on 7<sup>th</sup> February.
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### Weekly Rainfall Scenario (01 to 07 February, 2018)

During the week, rainfall was below Long Period Average (LPA) by 87% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	0.6	4.8	-87%
Northwest India	0.6	8.1	-92%
Central India	0.0	2.0	-99%
South Peninsula	0.4	1.1	-60%
East & northeast India	2.2	8.6	-74%

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

### Seasonal Rainfall Scenario (1 to January to 07 February, 2018)

For the country as a whole, cumulative rainfall during this year's winter season 2018 upto 07 February, 2018 is below LPA by 85%. 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	3.5	24.0	-85%
Northwest India	4.0	45.0	-91%
Central India	0.0	10.0	-99%
South Peninsula	4.0	8.9	-55%
East & northeast India	9.3	29.7	-69%

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

### Chief synoptic conditions as on 08 February, 2018

- A Western Disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood at 3.1 km above mean sea level.
- A fresh Western Disturbance as a cyclonic circulation at 3.1 km above mean sea level lies over eastern parts of Iran & adjoining Afghanistan with a trough aloft with its axis at 5.8 km above mean sea level running roughly along Longitude 55°E to the north of Latitude 32°N.

- A cyclonic circulation extending upto 0.9 km above mean sea level lies over southwest Madhya Pradesh & neighbourhood.
- A trough of low at mean sea level lies over southwest Bay of Bengal and adjoining Sri Lanka.

### Large scale features as on 08 February, 2018

- La Niña conditions are prevailing currently and similar condition is likely to continue during next two weeks.
- Madden Julian Oscillation (MJO) is in phase 7 with amplitude more than 1 and is likely to be in same phase with amplitude more than 1 during the week.
- Indian Ocean Dipole (IOD) is in neutral phase (-0.2°C).

### Forecast for next two week

#### **Weather systems & associated Precipitation during Week 1(08 to 14 February 2018) and Week 2 (15 to 23 February 2018)**

- Under the influence of a Western Disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood at 3.1 km above mean sea level. Light isolated precipitation would occur over Jammu & Kashmir during next 24 hours.
- **Thereafter, a fresh Western Disturbance would affect Western Himalayan Region (Jammu & Kashmir, Himachal Pradesh and Uttarakhand) & adjoining plains from 10<sup>th</sup> onwards and may cause light isolated to scattered precipitation over Western Himalayan region on 10<sup>th</sup>, light/moderate scattered to fairly widespread on 11<sup>th</sup>; fairly widespread to widespread precipitation with possibility of heavy falls on 12<sup>th</sup> and light/moderate isolated to scattered precipitation over Western Himalayan region on 14<sup>th</sup>.**
- **Light isolated to scattered rainfall over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathawada, Vidarbha, Interior Odisha, Bihar and Uttar Pradesh on 11<sup>th</sup>. Thunderstorm accompanied with hailstorm likely over Punjab, Haryana, Chandigarh & Delhi, Vidarbha, West Uttar Pradesh, Himachal Pradesh and Uttarakhand on 11<sup>th</sup>.**
- **Due to Western Disturbance and its likely interaction with easterlies at lower levels, light/ moderate scattered to fairly widespread rainfall over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathawada, Vidarbha, Interior Odisha, Bihar and Uttar Pradesh on 12<sup>th</sup>. Thunderstorm accompanied with hailstorm likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Maharashtra, Marathwada, Madhya Pradesh and Vidarbha on 12<sup>th</sup>.**
- **On 13<sup>th</sup>, its intensity & spread would decrease and light isolated to scattered rainfall would occur over all above mentioned areas.**
- **Thereafter, another fresh Western Disturbance would affect Western Himalayan Region & adjoining plains from 14<sup>th</sup> onwards.**

- **Fairly widespread to widespread precipitation would occur over Arunachal Pradesh during next 2 days & isolated precipitation in rest days of the 1<sup>st</sup> week and light isolated rainfall over rest parts of northeastern states during first half of the 1<sup>st</sup> week.**
- Isolated to scattered light/moderate rainfall activity is very likely over Andaman & Nicobar Islands during second half of the 1<sup>st</sup> week.
- Isolated to scattered rainfall activity is likely over Tamilnadu, Kerala and South Interior Karnataka during 1<sup>st</sup> week (**Annexure III**).
- **Overall rainfall activity is likely to be below normal over Western Himalayan region and above normal over central & south Peninsula; and no rain likely over any other part of the country during week 1 (Annexure IV).**
- **During Week 2, above normal rainfall activity is likely over Western Himalayan region and below normal over northeastern states; and no rain likely over any other part of the country during week 1 (Annexure IV).**

#### **Minimum temperature for week 1 & Week 2**

- Minimum temperatures are very likely to be between 5 to 10°C over parts of northwest India outside Western Himalayan region (where likely to be below 5°C) and between 10 to 15°C over rest northern parts of country during week 1. Considering the prevailing temperature and its trend during the week, **No Cold wave conditions likely over any part of country during week 1.**
- **Overall, minimum temperatures are very likely to be below normal over most parts of the country during 1<sup>st</sup> week (Annexure V).**
- **During 2<sup>nd</sup> week, there would be gradual rise in minimum temperatures over most parts of the country and these are very likely to be above normal over most parts of country outside east coast, where they are likely to be below normal (Annexure V).**

#### **Fog:**

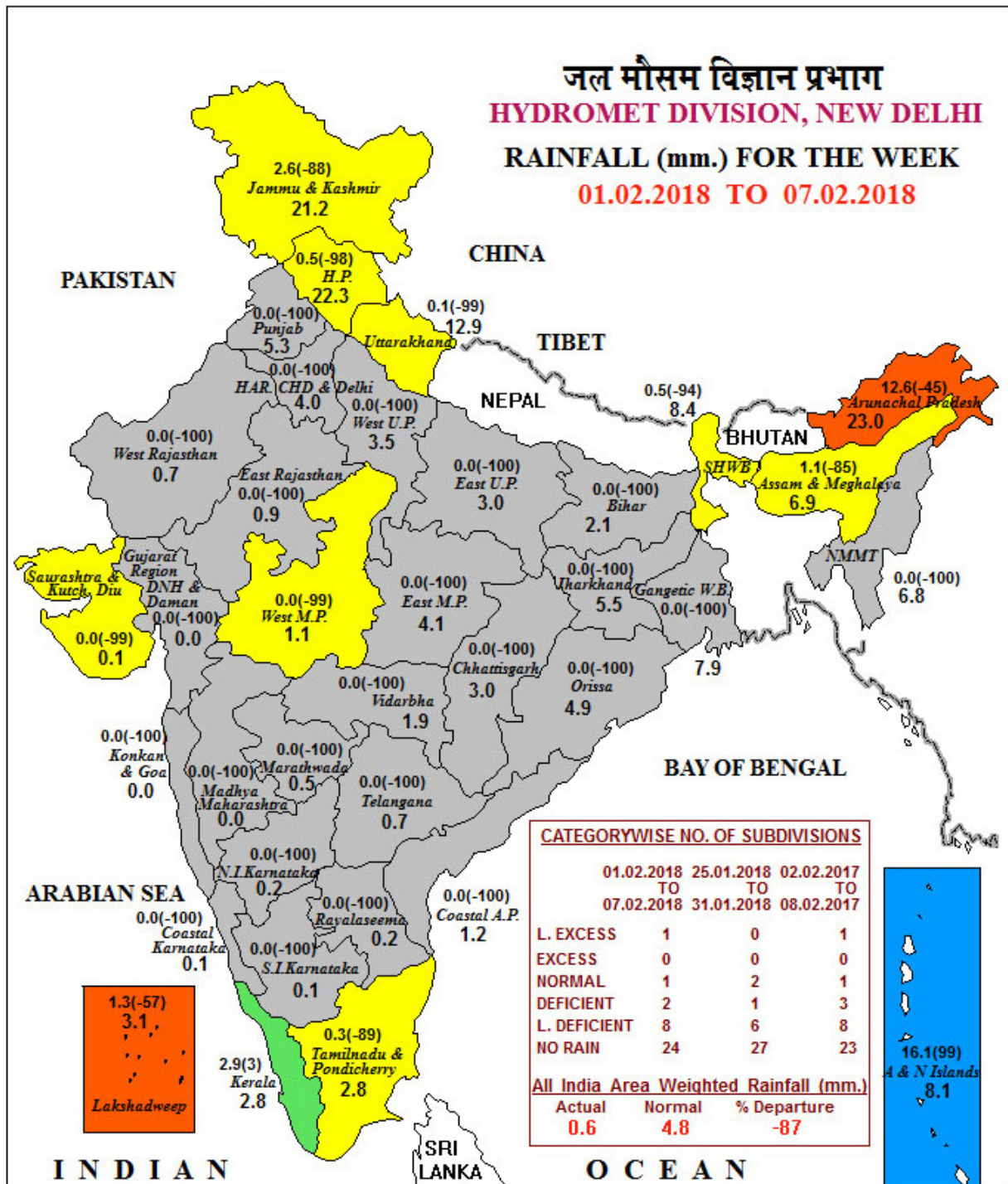
- No dense fog is likely to occur over northern parts of the country during next one week.

#### **Cyclogenesis:**

- No cyclogenesis is likely to develop over Bay of Bengal and Arabian Sea during next one week.

**Next weekly update will be issued on next Thursday i.e. 15 February, 2018**

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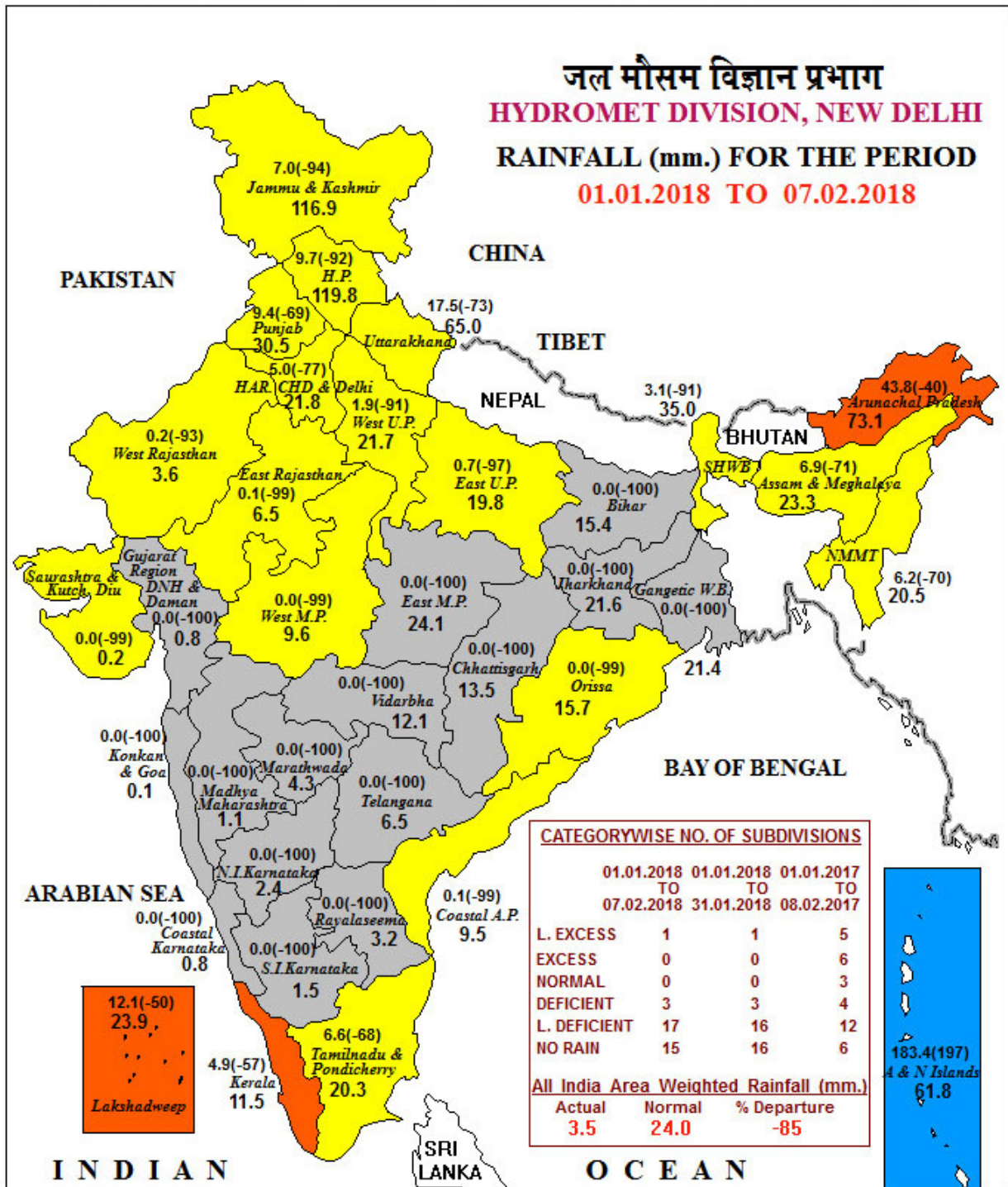
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)  
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%)  NO DATA

## 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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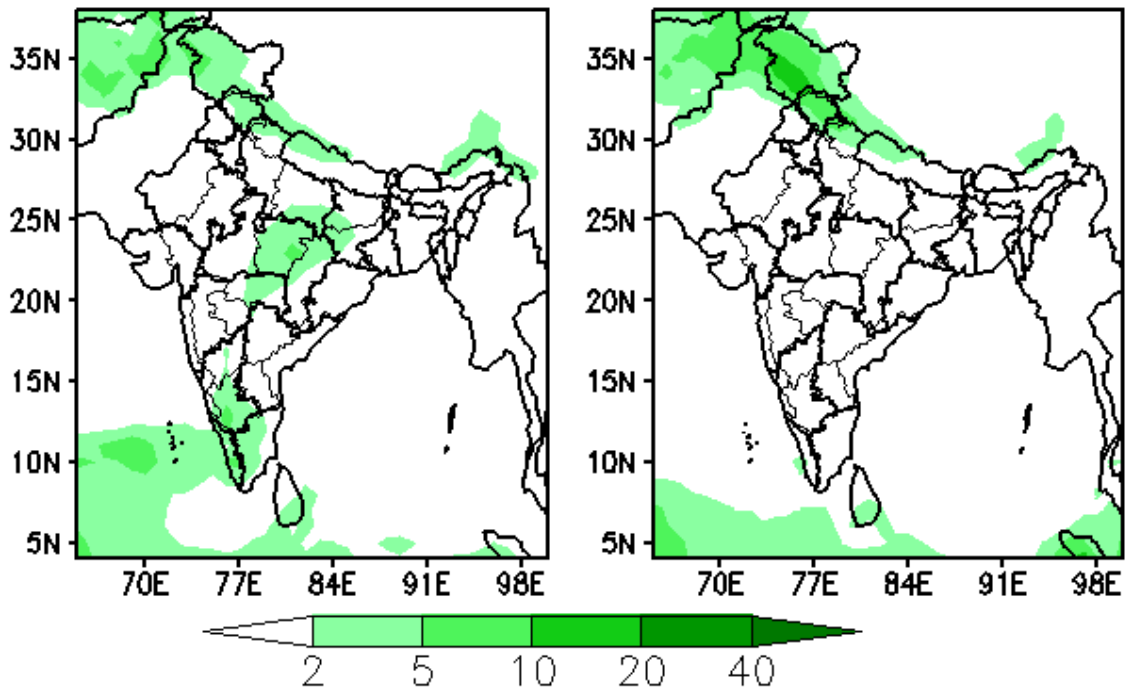
## Annexure III

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2018								
Sr. No	MET.SUB-DIVISIONS	08 FEB	09 FEB	10 FEB	11 FEB	12 FEB	13 FEB	14 FEB
1	ANDAMAN & NICO.ISLANDS	D	D	D	D	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	FWS <sup>TS#</sup>	FWS	ISOL	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	ISOL <sup>TS#</sup>	ISOL	D	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	ISOL	ISOL	D	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	D	D	D	D	D	ISOL	D
6	GANGETIC WEST BENGAL	ISOL	D	D	D	ISOL	ISOL	D
7	ODISHA	D	D	ISOL	ISOL	ISOL	ISOL	D
8	JHARKHAND	D	D	D	ISOL	ISOL	ISOL	D
9	BIHAR	D	D	D	D	ISOL	ISOL	D
10	EAST UTTAR PRADESH	D	D	D	ISOL	FWS <sup>TS#</sup>	ISOL	D
11	WEST UTTAR PRADESH	D	D	D	ISOL <sup>TS#</sup>	SCT <sup>TS#</sup>	ISOL	D
12	UTTARAKHAND	D	D	ISOL	SCT <sup>TS#</sup>	FWS <sup>•</sup>	ISOL	D
13	HARYANA CHD. & DELHI	D	D	D	ISOL <sup>TS#</sup>	SCT <sup>TS#</sup>	ISOL	D
14	PUNJAB	D	D	D	ISOL <sup>TS#</sup>	SCT <sup>TS#</sup>	ISOL	D
15	HIMACHAL PRADESH	D	D	ISOL	FWS <sup>TS#</sup>	WS <sup>•</sup>	ISOL	D
16	JAMMU & KASHMIR	ISOL	ISOL	SCT	FWS	WS <sup>•</sup>	ISOL	ISOL
17	WEST RAJASTHAN	D	D	D	ISOL	ISOL	D	D
18	EAST RAJASTHAN	D	D	D	ISOL	ISOL	D	D
19	WEST MADHYA PRADESH	D	D	D	ISOL	SCT <sup>TS#</sup>	D	D
20	EAST MADHYA PRADESH	D	D	D	SCT	FWS <sup>TS#</sup>	ISOL	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	ISOL	ISOL <sup>TS#</sup>	D	D
25	MARATHAWADA	D	D	D	ISOL	SCT <sup>TS#</sup>	ISOL	D
26	VIDARBHA	D	D	ISOL	ISOL <sup>TS#</sup>	FWS <sup>TS#</sup>	ISOL	D
27	CHHATTISGARH	D	D	ISOL	ISOL	SCT	ISOL	D
28	COASTAL ANDHRA PRADESH	ISOL	D	D	D	D	D	D
29	TELANGANA	D	D	ISOL	ISOL	ISOL	ISOL	D
30	RAYALASEEMA	ISOL	D	D	D	D	D	D
31	TAMILNADU & PUDUCHERRY	SCT	ISOL	ISOL	D	D	D	D
32	COASTAL KARNATAKA	ISOL	D	D	D	D	D	D
33	NORTH INT.KARNATAKA	D	D	D	ISOL	ISOL	D	D
34	SOUTH INT.KARNATAKA	ISOL	ISOL	ISOL	ISOL <sup>TS</sup>	ISOL	ISOL	D
35	KERALA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	D
36	LAKSHADWEEP	SCT	ISOL	ISOL	D	ISOL	ISOL	D
<b>LEGENDS:</b>								
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		

### Actual Rainfall (mm/day)

(Week1: 09Feb-15Feb)

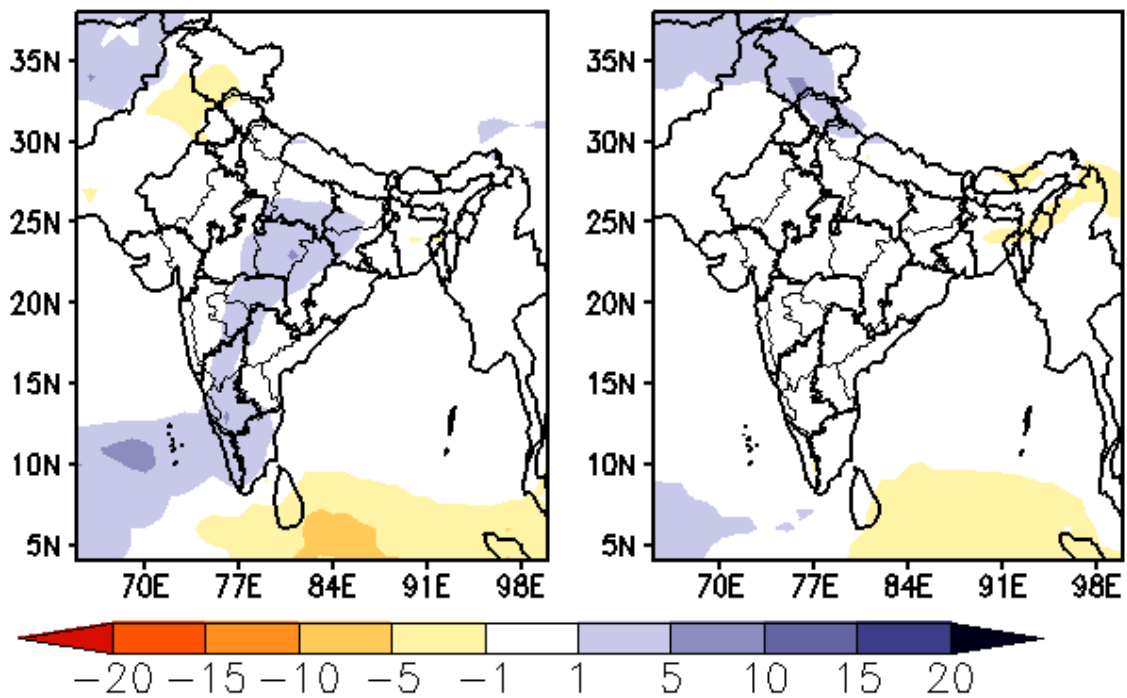
(Week2: 16Feb-22Feb)



### Rainfall Anomaly (mm/day)

(Week1: 09Feb-15Feb)

(Week2: 16Feb-22Feb)

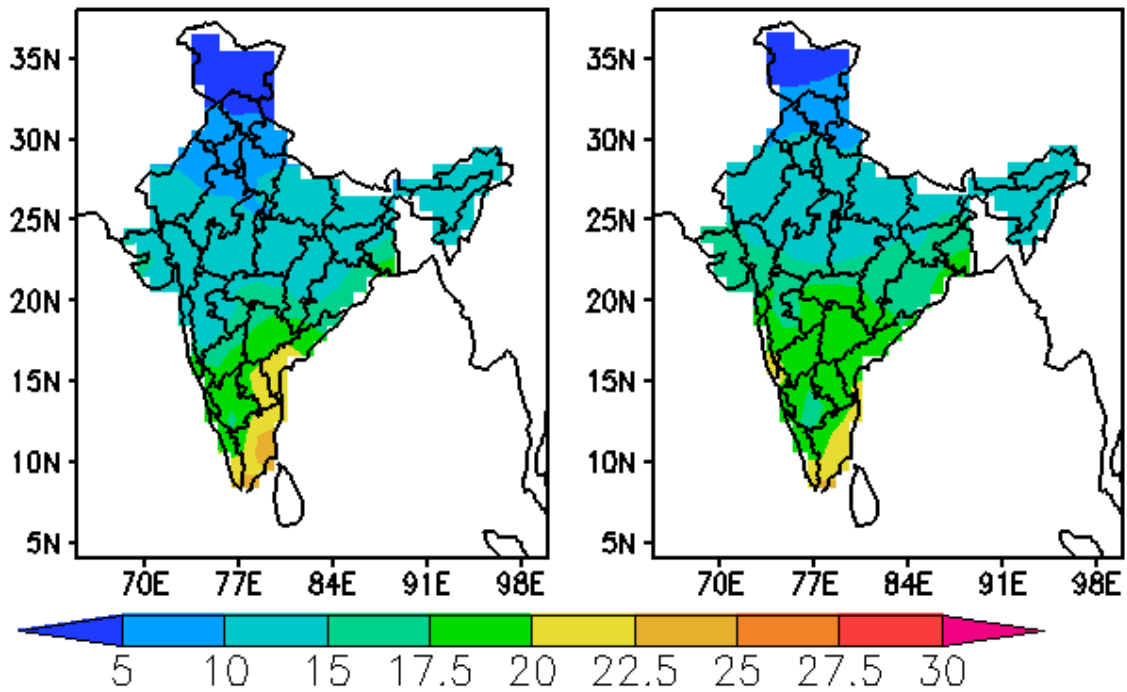




### MME Bias Corrected Actual Tmin (Deg C)

(Week1: 09Feb-15Feb)

(Week2: 16Feb-22Feb)



### MME Bias Corrected Tmin Anomaly (Deg)

(Week1: 09Feb-15Feb)

(Week2: 16Feb-22Feb)

