



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

**Dated: 09 May, 2019**

**Current Weather Status and Outlook for next two weeks (09 to 22 May, 2019)**

**Significant Features during past week (02 to 08 May, 2019)**

- **Cyclonic Storm' FANI'**: Last week's Extremely Severe Cyclonic Storm 'FANI' crossed the Odisha coast close to Puri between 0800 to 1000 hours IST of 3<sup>rd</sup> May 2019. After crossing the coast, the cyclonic storm weakened gradually into a Cyclonic Storm over Gangetic West Bengal in the early morning of 4<sup>th</sup> May and further into a deep depression over Bangladesh & adjoining Gangetic West Bengal in the morning of same day i.e. 4<sup>th</sup> May and into a well marked low pressure area and further into a low pressure area over north Myanmar and adjoining east Arunachal Pradesh, Nagaland & Manipur in the early morning of 5<sup>th</sup> May.
  - **Heavy Rainfall Activity**: in association with cyclonic storm, extremely heavy rainfall reported at isolated places over Odisha on 3<sup>rd</sup> and over Assam & Meghalaya on 5<sup>th</sup> May. Heavy to very heavy rainfall reported at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Coastal Andhra Pradesh, Gangetic West Bengal and Tamilnadu and heavy at isolated places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, south Interior Karnataka and Tamilnadu on one or two days of the week.
  - **Heat wave Conditions**: Heat wave to severe heat wave conditions reported at isolated places over Coastal Andhra Pradesh on one or two days. Heat wave conditions reported some parts over East Uttar Pradesh on one day or two days; and isolated places over Vidarbha on many days; over Telangana on one or two days. The highest maximum temperature of 46.4°C had been recorded at Brahmapuri (Vidarbha) on 2<sup>nd</sup> May 2019.
-

### Weekly Rainfall Scenario (02 to 08 May, 2019)

During the week, rainfall was above Long Period Average (LPA) by 28% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	14.8	11.5	28%
Northwest India	3.4	5.8	-42%
Central India	8.3	3.3	152%
South Peninsula	4.8	12.9	-63%
East & northeast India	62.7	38.3	64%

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

### Seasonal Rainfall Scenario (01 March to 08 May, 2019)

For the country as a whole, cumulative rainfall during this year's pre-monsoon season upto 08<sup>th</sup> May is below LPA by 21%. 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	65.5	82.5	-21%
Northwest India	53.7	85.6	-37%
Central India	26.7	23.3	15%
South Peninsula	37.1	61.1	-39%
East & northeast India	205.2	226.8	-10%

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

### Chief synoptic conditions as on 09 May, 2019

- A Western Disturbance as a cyclonic circulation lies over northeast Afghanistan & adjoining north Pakistan at mid-tropospheric levels.
- An induced cyclonic circulation lies over central Pakistan & adjoining West Rajasthan at lower levels.
- A cyclonic circulation lies over north Bangladesh & neighbourhood at lower levels.
- A trough runs from north interior Odisha to Rayalseema across Coastal Andhra Pradesh at lower levels.

### Large scale features as on 09 May, 2019

- Currently, weak El Niño conditions are prevailing over the equatorial Pacific Ocean and the latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates that these conditions are likely to weaken during the summer season.
- 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 turn into weak positive IOD conditions during May and June.
- The Madden–Julian Oscillation (MJO) at present lies over Phase -7 with high amplitude (more than 1). It is very likely to move in phase-8 with high amplitude towards end of the next one week.

### Forecast for next two week

#### Weather systems & associated Precipitation during Week 1(09 to 15 May, 2019) and Week 2 (16 to 22 May, 2019)

##### Rainfall for week 1: (09 to 15 May, 2019)

- Due to approaching Western disturbance (WD) and likely moisture incursion from Arabian Sea; scattered to fairly widespread rainfall/thunderstorm activity very likely over Western Himalayan Region (WHR) includes Jammu & Kashmir, Himachal Pradesh and Uttarakhand during many days of the week. Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) is also very likely to occur during 1<sup>st</sup> half of the week.
- Isolated to scattered rainfall/thunderstorm activity very likely to occur over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh during many days of the week. Thunderstorm/Duststorm & lightning accompanied with gusty wind (40-50 kmph) at isolated places over Rajasthan and gusty wind (30-40 kmph) Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh likely to occur during 1<sup>st</sup> half.
- Fairly widespread to widespread rainfall/thunderstorm activity very likely over northern states (Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura) during many days of the week. **Heavy rainfall at isolated places is very likely over Arunachal Pradesh and Assam & Meghalaya during 1<sup>st</sup> half.**
- Isolated to scattered rainfall with isolated thunderstorms and gusty winds also very likely to occur over West Bengal & Sikkim during most days of the week; and Isolated rainfall with thunderstorms and gusty winds very likely to occur over Odisha, Jharkhand and Gangetic West Bengal on many days during the week.
- Isolated rainfall with thunderstorms and gusty winds also very likely to occur south Peninsular India during most days of the week(**Annexures III**).

- **Cumulatively, above normal rainfall likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Rajasthan, Uttar Pradesh, South Interior Karnataka and Tamilnadu during week -1 (Annexures IV).**

#### **Rainfall for week 2: (16 to 22 May, 2019)**

- **Above normal rainfall activity likely to occur over above normal rainfall likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Rajasthan, West Uttar Pradesh and Gujarat state; below normal rainfall activity likely to occur over northeastern states during week 2 (Annexure IV).**

#### **Maximum Temperature for week 1 & 2: (09 to 22 May, 2019)**

- **Presently heat Wave to severe heat wave conditions are prevailing at a few places over some parts of Coastal Andhra Pradesh and heat wave at isolated places over East Uttar Pradesh, West Rajasthan, Bihar, Chhattisgarh, Odisha, Vidarbha, and Telangana. It is likely to prevail till tomorrow and abate thereafter due to likely thunderstorm activity over these regions thereafter. Overall week as a whole, maximum temperatures are likely to be below normal over the most parts of the country except Odisha, Coastal Andhra Pradesh and coastal Tamilnadu, where these are likely to be above normal by 2-3°C above normal during week 1. Hence, isolated heat wave conditions likely to occur over Odisha & Coastal Andhra Pradesh towards end of the week 1.**
- **During 2<sup>nd</sup> week, similar conditions likely to prevail over most parts of the country. Heat wave conditions likely to occur over Odisha & Coastal Andhra Pradesh on some days of the week 2 (Annexure V).**

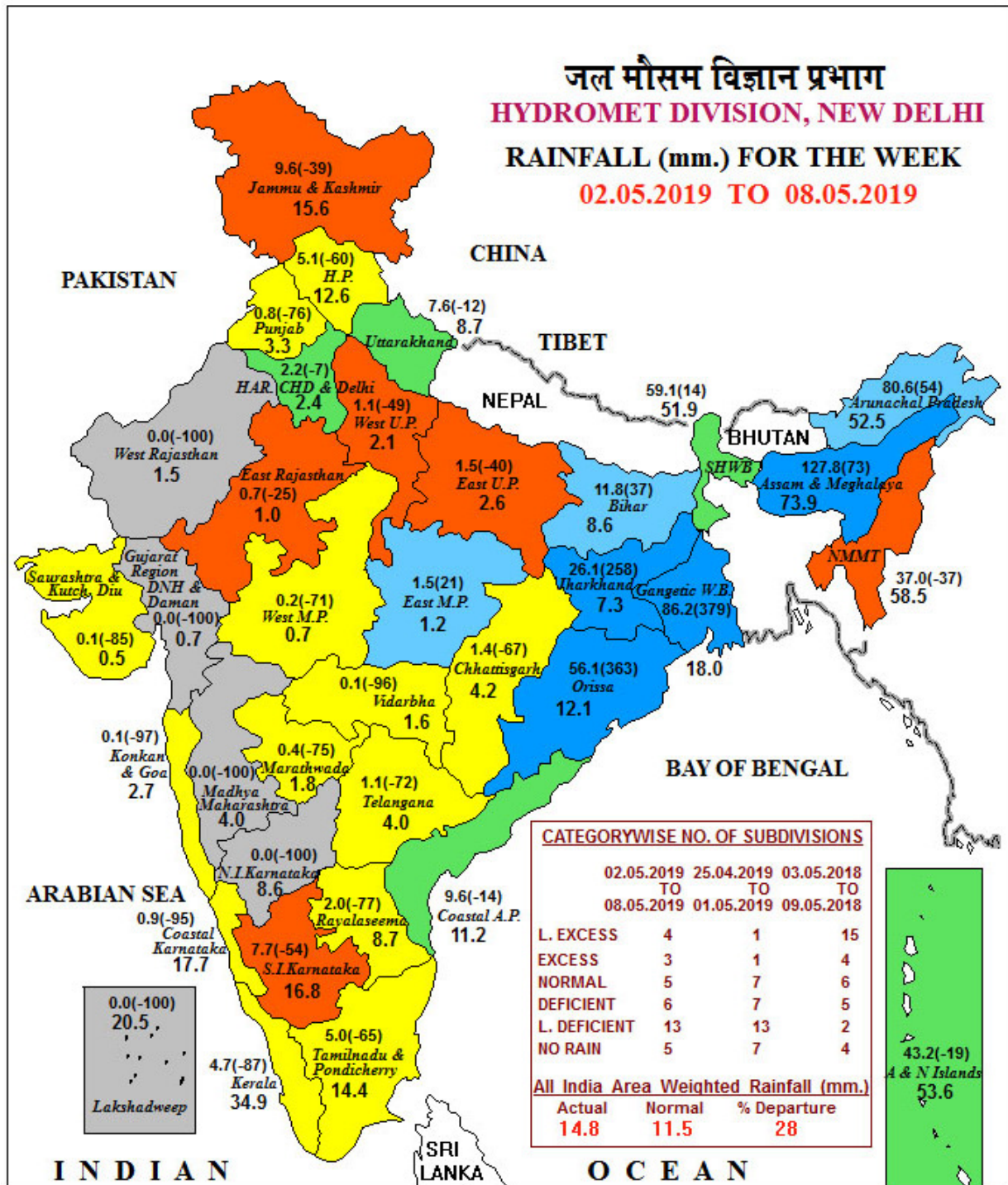
#### **Cyclogenesis:**

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

**Next weekly update will be issued on next Thursday i.e. 16 May, 2019**

# भारत मौसम विज्ञान विभाग

## INDIA METEOROLOGICAL DEPARTMENT



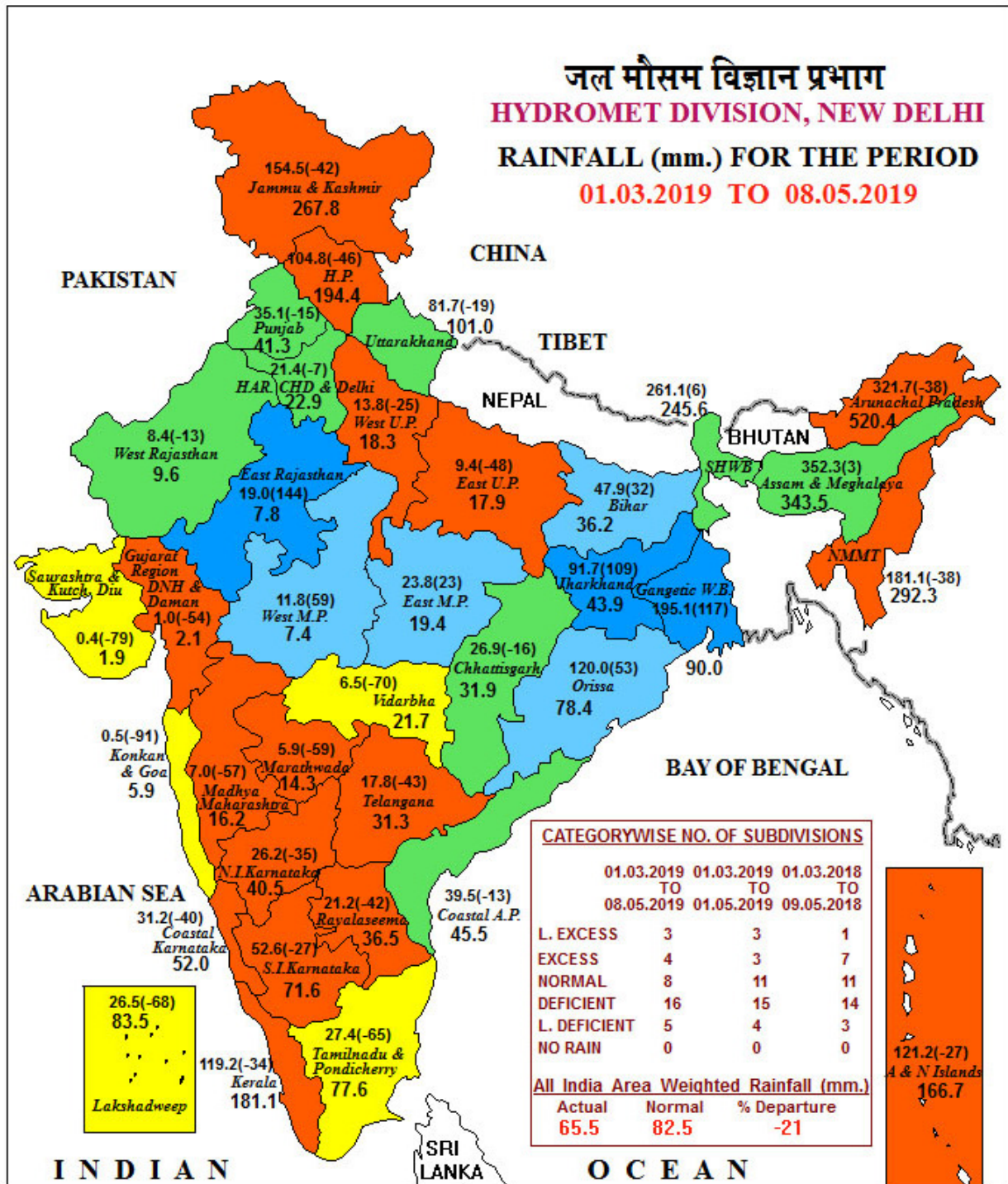
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)  
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%)  NO DATA

**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.

# भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



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.

## Annexure III

## METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST &amp; Wx. WARNINGS-2019

Sr. No	MET.SUB-DIVISIONS	09 MAY	10 MAY	11 MAY	12 MAY	13 MAY	14 MAY	15 MAY
1	ANDAMAN & NICO.ISLANDS	FWS	FWS	FWS	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	WS <sup>TS</sup>	WS <sup>TS</sup>	WS*	WS*	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS <sup>TS</sup>	FWS <sup>TS</sup>	FWS*	WS*	FWS	FWS*	D
4	NAGA.MANI.MIZO.& TRIPURA	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	SCT <sup>TS</sup>	SCT <sup>TS</sup>	SCT	SCT	SCT
5	SUB-HIM.W. BENG. & SIKKIM	SCT	SCT	FWS <sup>TS</sup>	FWS <sup>TS</sup>	FWS <sup>TS</sup>	FWS	FWS
6	GANGETIC WEST BENGAL	D <sup>f</sup>	D <sup>f</sup>	ISOL <sup>TS</sup>	ISOL	ISOL <sup>TS</sup>	ISOL	ISOL
7	ODISHA	ISOL <sup>f</sup>	D <sup>f</sup>	ISOL <sup>f</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	ISOL
8	JHARKHAND	D <sup>f</sup>	D <sup>f</sup>	ISOL	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	ISOL
9	BIHAR	D <sup>f</sup>	D <sup>f</sup>	ISOL	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	ISOL
10	EAST UTTAR PRADESH	D <sup>DS</sup> <sup>f</sup>	D <sup>TSDS</sup> <sup>f</sup>	ISOL <sup>TSDS</sup>	ISOL	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	D <sup>DS</sup>	ISOL <sup>TSDS</sup>	ISOL <sup>TSDS</sup>	ISOL	ISOL	ISOL	ISOL
12	UTTARAKHAND	D	SCT <sup>TS#</sup>	FWS <sup>TS#</sup>	SCT	SCT	FWS	SCT
13	HARYANA CHD. & DELHI	D <sup>DS</sup>	SCT <sup>TSDS</sup>	SCT <sup>TSDS</sup>	ISOL	SCT	ISOL	ISOL
14	PUNJAB	ISOL	SCT <sup>TSDS</sup>	SCT <sup>TSDS</sup>	ISOL	SCT	SCT	ISOL
15	HIMACHAL PRADESH	ISOL	SCT <sup>TS#</sup>	FWS <sup>TS#</sup>	ISOL	SCT	SCT	ISOL
16	JAMMU & KASHMIR	ISOL	FWS <sup>TS</sup>	FWS <sup>TS</sup>	ISOL	FWS	SCT	SCT
17	WEST RAJASTHAN	ISOL <sup>DS</sup> <sup>f</sup>	ISOL <sup>TSDS</sup>	SCT <sup>TSDS</sup>	ISOL	ISOL	SCT	SCT
18	EAST RAJASTHAN	D <sup>DS</sup>	ISOL <sup>TSDS</sup>	ISOL <sup>TSDS</sup>	ISOL	ISOL	SCT	SCT
19	WEST MADHYA PRADESH	D	ISOL	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	D	ISOL	ISOL
20	EAST MADHYA PRADESH	D <sup>f</sup>	ISOL <sup>f</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	D	D
21	GUJARAT REGION D.D. & N.H.	ISOL	ISOL	ISOL	D	D	D	ISOL
22	SAURASTRA KUTCH & DIU	D	ISOL	ISOL	ISOL	D	ISOL	ISOL
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	D	D	D	D	D	D	D
25	MARATHAWADA	D	ISOL	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	D	D
26	VIDARBHA	D <sup>f+</sup>	D <sup>f+</sup>	ISOL <sup>TS</sup> <sup>f</sup>	ISOL <sup>TS</sup>	D	D	D
27	CHHATTISGARH	D <sup>f</sup>	D <sup>f</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	ISOL <sup>f+</sup>	ISOL <sup>f</sup> <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	D <sup>f</sup>	D <sup>f</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	D	ISOL
30	RAYALASEEMA	D	D	ISOL	ISOL <sup>TS</sup>	SCT <sup>TS</sup>	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	SCT <sup>f</sup> <sup>TS*</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL <sup>TS*</sup>	SCT	ISOL
32	COASTAL KARNATAKA	D	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INT.KARNATAKA	D	D	ISOL <sup>TS</sup>	ISOL	ISOL	D	ISOL
34	SOUTH INT.KARNATAKA	ISOL	ISOL	ISOL <sup>TS</sup>	SCT <sup>TS</sup>	SCT <sup>TS*</sup>	SCT	ISOL
35	KERALA	ISOL	ISOL	SCT <sup>TS</sup>	SCT <sup>TS*</sup>	SCT <sup>TS*</sup>	SCT	SCT
36	LAKSHADWEEP	D	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL

## LEGENDS:

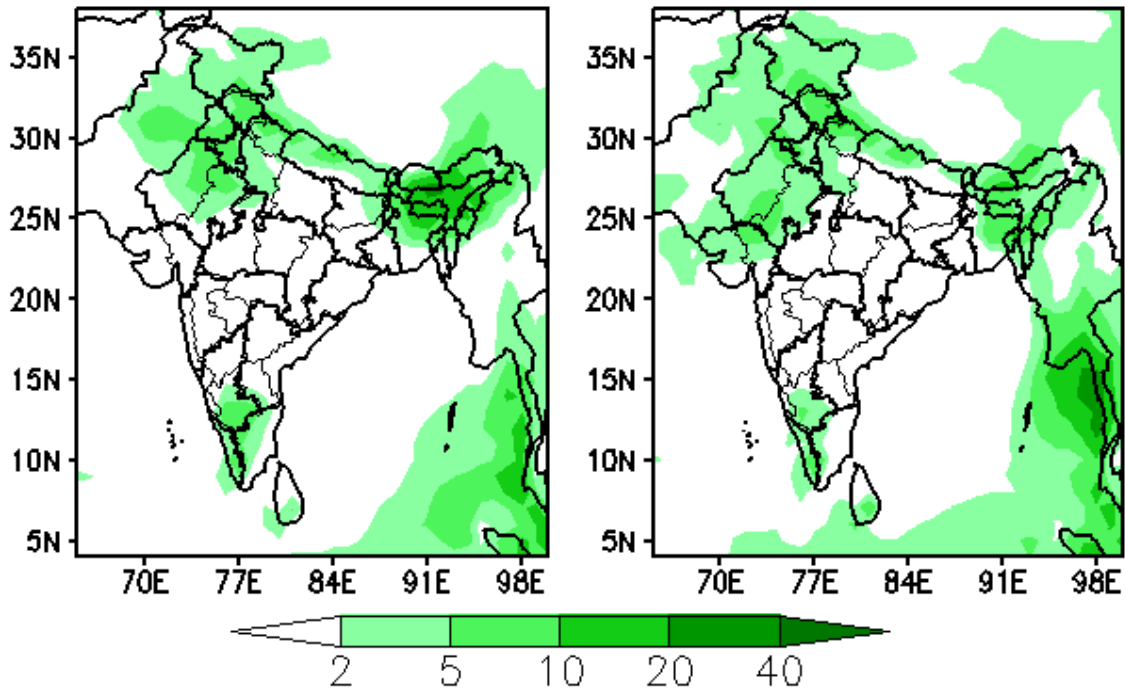
WS	WIDE SPREAD / MOST PLACES (76-100%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)
SCT	SCATTERED / FEW PLACES (26% to 50%)	ISOL	ISOLATED (up to 25%)
			D/DRY
			NIL RAINFALL
<sup>*</sup> Heavy Rainfall (64.5-115.5 mm)	<sup>**</sup> Heavy to Very Heavy Rainfall (115.6-204.4 mm)	<sup>***</sup> Extremely Heavy Rainfall (204.5 mm or more)	
<sup>☁</sup> FOG	<sup>*</sup> SNOWFALL	<sup>#</sup> HAILSTORM	<sup>f</sup> HEAT WAVE (+4.5 °C to +6.4 °C)
<sup>§</sup> THUNDERSTORM WITH SQUALL/GUSTY WIND	<sup>DS/TS</sup> DUST/THUNDERSTORM	<sup>f</sup> SEVERE HEAT WAVE (> +6.4)	<sup>f</sup> SEVERE COLD WAVE (< -6.4)
		<sup>‡</sup> COLD WAVE (-4.5 °C to -6.4 °C)	

**Forecast rainfall (mm per day)**

**Actual Rainfall (mm/day)**

(Week1: 10May-16May)

(Week2: 17May-23May)

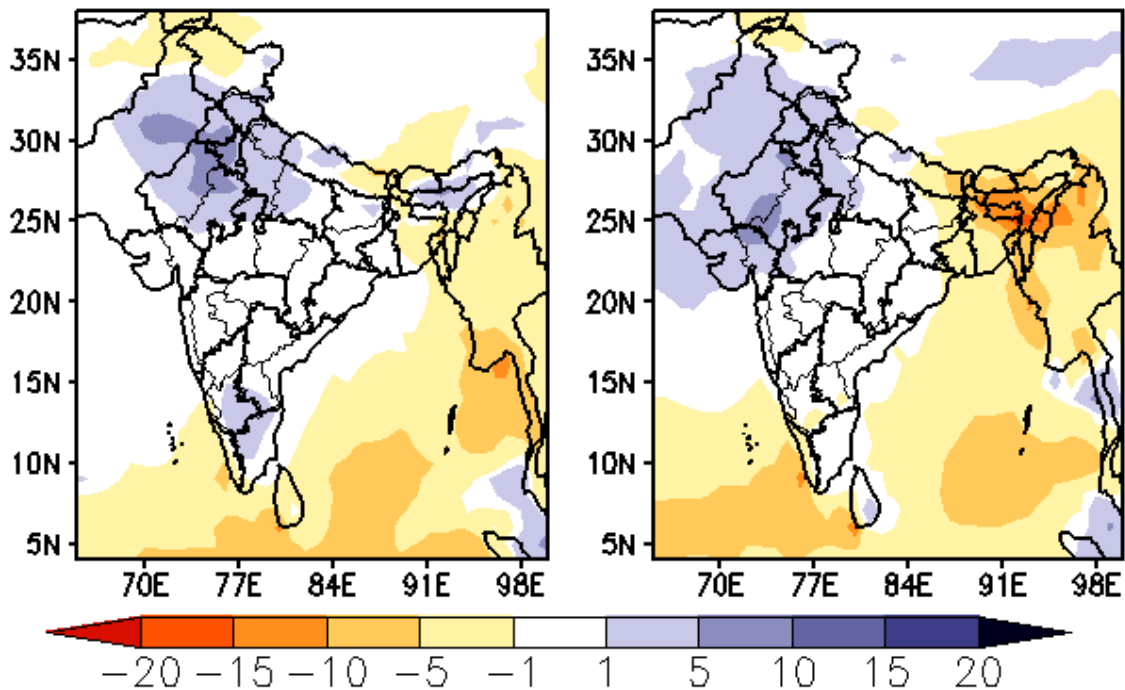


**Forecast rainfall anomaly (mm per day)**

**Rainfall Anomaly (mm/day)**

(Week1: 10May-16May)

(Week2: 17May-23May)



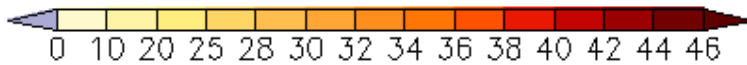
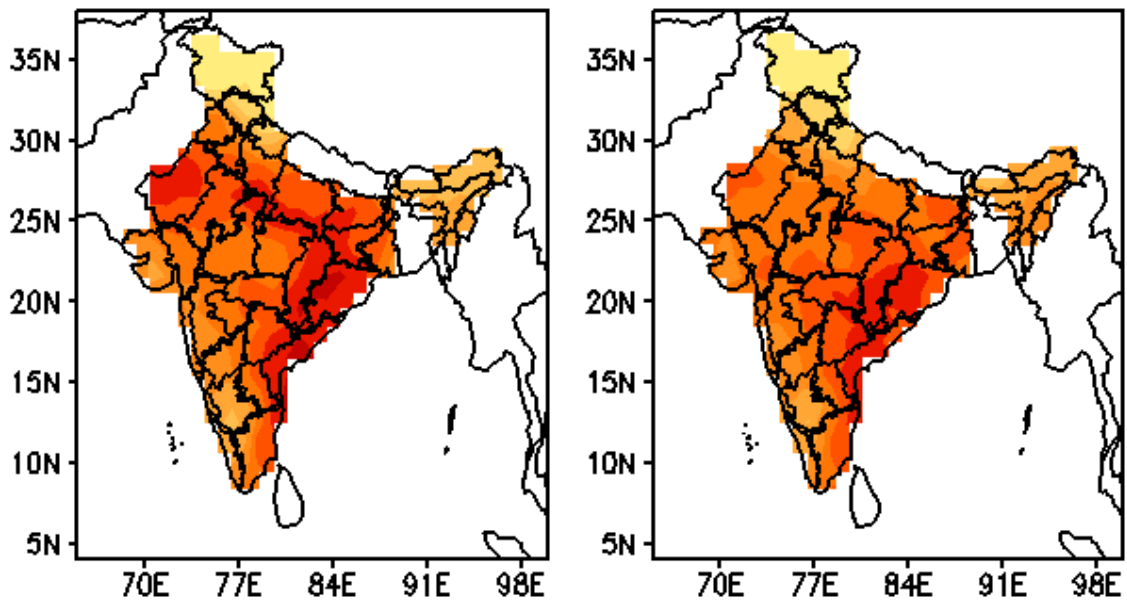


**MME Bias Corrected  $T_{max}$  forecast ( $^{\circ}C$ )**

**MME Bias Corrected Actual  $T_{max}$  (Deg C)**

(Week1: 10May-16May)

(Week2: 17May-23May)



**MME Bias Corrected  $T_{max}$  Anomaly ( $^{\circ}C$ )**

**MME Bias Corrected  $T_{max}$  Anomaly (Deg)**

(Week1: 10May-16May)

(Week2: 17May-23May)

