



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

Dated: 10 May, 2018

Current Weather Status and Outlook for next two weeks

Highlights of the past week

Temperature Scenario:

- **Heat wave conditions** were observed at one or two pockets over Vidarbha on three days during the week.
- **Maximum temperature** above 44°C was reported at many places over Vidarbha on many days and over West Rajasthan on a day during the week; Maximum Temperature above 44°C was reported at one or two places over West Madhya Pradesh and over Madhya Maharashtra on one day each during the week.
- **The highest maximum temperature** of 46.0°C was recorded at Phalodi (West Rajasthan) on 03rd May and at Chandrapur (Vidarbha) on 8th May 2018 in the plains of the country during the week.

Thunderstorm:

- **Moderate/severe hailstorm occurred over Western Himalayan region including Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 7th & 8th May.**
 - **Moderate to severe thunderstorm/duststorm accompanied with gusts and squall affected some parts of Rajasthan, Haryana, Delhi and Uttar Pradesh on 2nd May; and moderate duststorm/thunderstorm occurred over these regions from 7th to 9th May. Maximum wind speed of 126 kmph has reported at Agra and 69 kmph over Delhi on 2nd May with squall of 50-70 kmph over few places.**
 - **Thunderstorm accompanied with squall/gust** had been reported at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, South Interior Karnataka and Kerala on most of the days; over Sub-Himalayan West Bengal & Sikkim and Chhattisgarh on many days; over Gangetic West Bengal, Jharkhand and Coastal Karnataka and North Interior Karnataka on a few days; over Coastal Andhra Pradesh and Telangana on two days and over
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Andaman & Nicobar Islands, Arunachal Pradesh, Madhya Pradesh, Rayalaseema and Lakshadweep on one day each during the week.

Heavy rainfall:

- Heavy to very heavy rain had been observed at isolated places over Tamilnadu & Puducherry , Assam & Meghalaya , South Interior Karnataka and Rayalaseema on one or two days during the week.
- Heavy rain had been observed at isolated places over Coastal Andhra Pradesh, Himachal Pradesh, Kerala, Tamil Nadu & Puducherry on two to three days and over Arunachal Pradesh , Assam & Meghalaya, Nagaland , Manipur, Mizoram & Tripura , Rayalaseema, South Interior Karnataka and Sub Himalayan West Bengal & Sikkim and Telengana on one or two days during the week.

Weekly Rainfall Scenario (03 to 09 May, 2018)

During the week, rainfall was above Long Period Average (LPA) by 39% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	15.8	11.4	39%
Northwest India	13.0	5.7	127%
Central India	2.8	3.3	-14%
South Peninsula	24.1	12.8	88%
East & northeast India	38.4	37.6	2%

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

Seasonal Rainfall Scenario (01 March to 09 May, 2018)

For the country as a whole, cumulative rainfall during this year's Pre-monsoon season 2018 upto 02 May, 2018 is below LPA by 13%. 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	73.4	84.2	-13%
Northwest India	68.0	86.9	-22%
Central India	23.2	23.7	-2%
South Peninsula	83.4	62.9	33%
East & northeast India	177.6	231.6	-23%

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

Chief synoptic conditions as on 10 May, 2018

- A north-south trough at 1.5 km above mean sea level runs from Uttarakhand to south Uttar Pradesh.
- Another north-south trough runs from northwest Rajasthan to south Madhya Maharashtra and extends upto 0.9 km above mean sea level.
- A cyclonic circulation lies over West Bengal & neighbourhood at lower levels.
- A cyclonic circulation lies over Lakshadweep & adjoining southeast Arabian Sea and extends upto 3.1 km above mean sea level. A trough runs from this system to North Interior Karnataka at 1.5 km above mean sea level.
- A cyclonic circulation lies over Comorin area & neighbourhood at lower levels.
- A fresh Western Disturbance is likely to affect Western Himalayan region from 13th May onwards.

Large scale features as on 10 May, 2018

- La-Nina conditions are prevailing over the equatorial Pacific Ocean at present and latest MMCFS model forecasts indicate its persistence during the forecast period.
- Madden Julian Oscillation (MJO) is in phase 1 with high amplitude (more than 1) and likely to be in same phase with HIGH amplitude during next one week.
- Indian Ocean Dipole (IOD) is in neutral phase (0.0°C) and likely to be in neutral phase during next one week.

Forecast for next two week

Weather systems & associated Precipitation during Week 1(10 to 16 May 2018) and Week 2 (17 to 23 May 2018)

- Under the influences of cyclonic circulations/troughs over East & northeast India, scattered to fairly widespread rainfall very likely to occur over Sub-Himalayan West Bengal & Sikkim and northeastern states during the 1st week along with heavy rainfall at isolated places on a few days of the week. **Isolated to scattered rain/thundershowers and gusty/squally winds are likely to occur over east India during many days of the 1st week.**
- **Under the influence of a fresh Western Disturbance from 13th May, fairly widespread to widespread precipitation very likely to occur over Western Himalayan region (Jammu & Kashmir, Himachal Pradesh and Uttarakhand) along with thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) and hail very likely at isolated places during second half of the 1st week.** Isolated to scattered rainfall with isolated thunderstorm/duststorm is also likely

Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan during same period.

- **Scattered to fairly widespread rainfall very likely to occur over south India during 1st week alongwith thunderstorm accompanied with gusty/squally winds at isolated places on two or three days and heavy rainfall at isolated places on one or two days during the 1st week(Annexure IV).**
- No significant weather is expected over the remaining parts of the country during 1st week.
- **Overall rainfall activity is likely to be above normal over east India & adjoining northeastern states and south Peninsular India; and below normal over Western Himalayan region and near normal over rest parts of the country during week 1 (Annexure IV).**
- **During Week 2, rainfall activity is likely to be above normal over east India and south Peninsular India; and below normal over Western Himalayan region & northeastern states and near normal over rest parts of the country (Annexure IV).**

Temperature outlook for week 1 & Week 2

Maximum temperature and Heat Wave

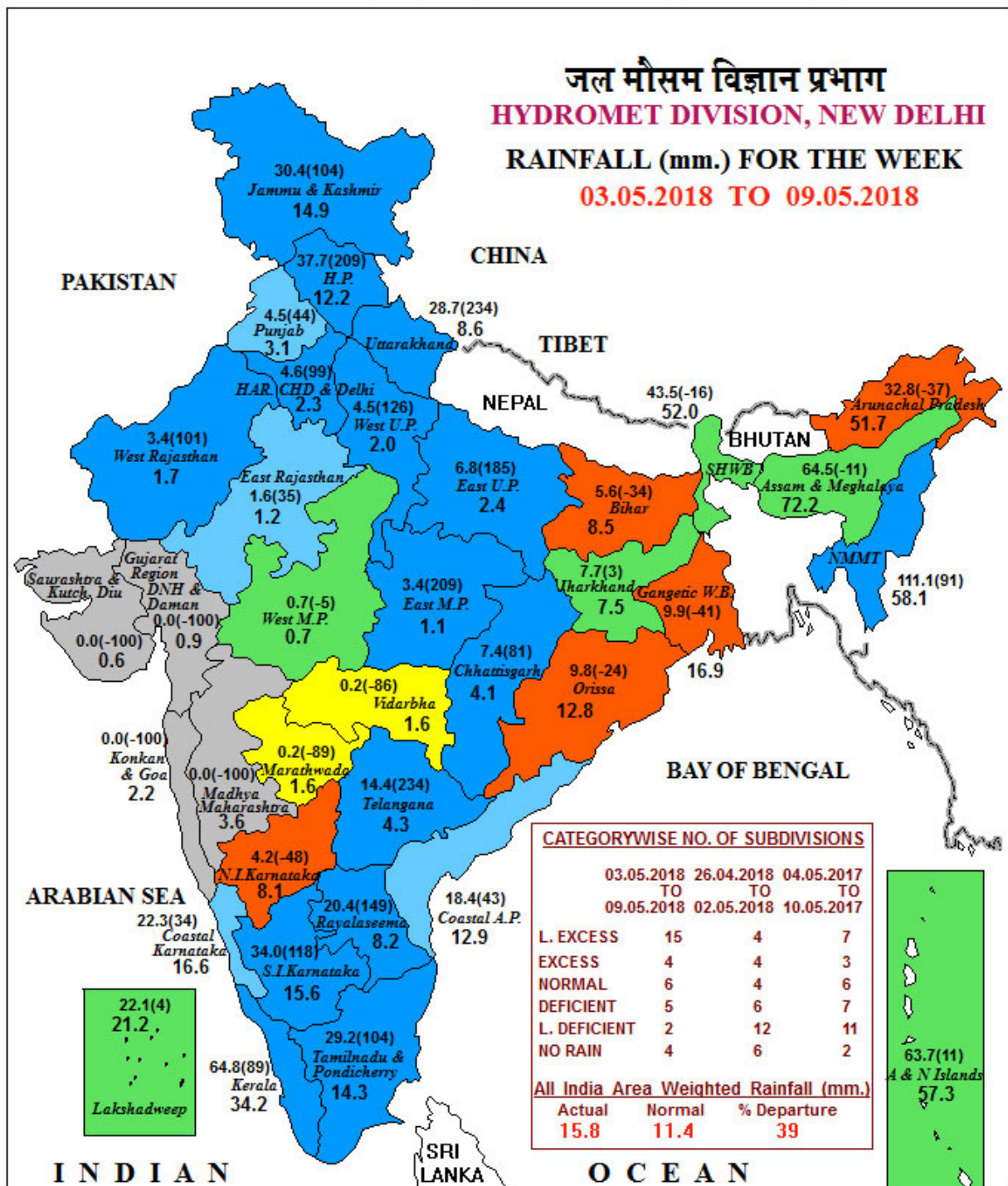
- The maximum temperatures are very likely to be above 40°C over plains of northwest India and Central and adjoining east & south Peninsular India during the 1st week. These are likely to be near normal over most parts of the country except Western Himalayan region. Hence no major heat wave spell is expected over any parts of country during next one week. However, **heat wave may occur at one or two pockets of Vidarbha on one or two days of 1st week.**
- During 2nd week, maximum temperatures are likely to rise over plains of northwest India and central parts of the country would be above 42°C over its parts. There would be near normal or above normal over most parts of the plains of northwest India and central parts of the country. **As a result, heat wave conditions may prevail over some parts over northwest & central India during week 2 (Annexure V).**

Cyclogenesis:

- A low pressure is likely to develop over central Parts of Arabian Sea towards end of 1st week with low probability of cyclogenesis and likely to move west-northwestwards towards Yemen coast.

Next weekly update will be issued on next Thursday i.e. 17 May, 2018

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



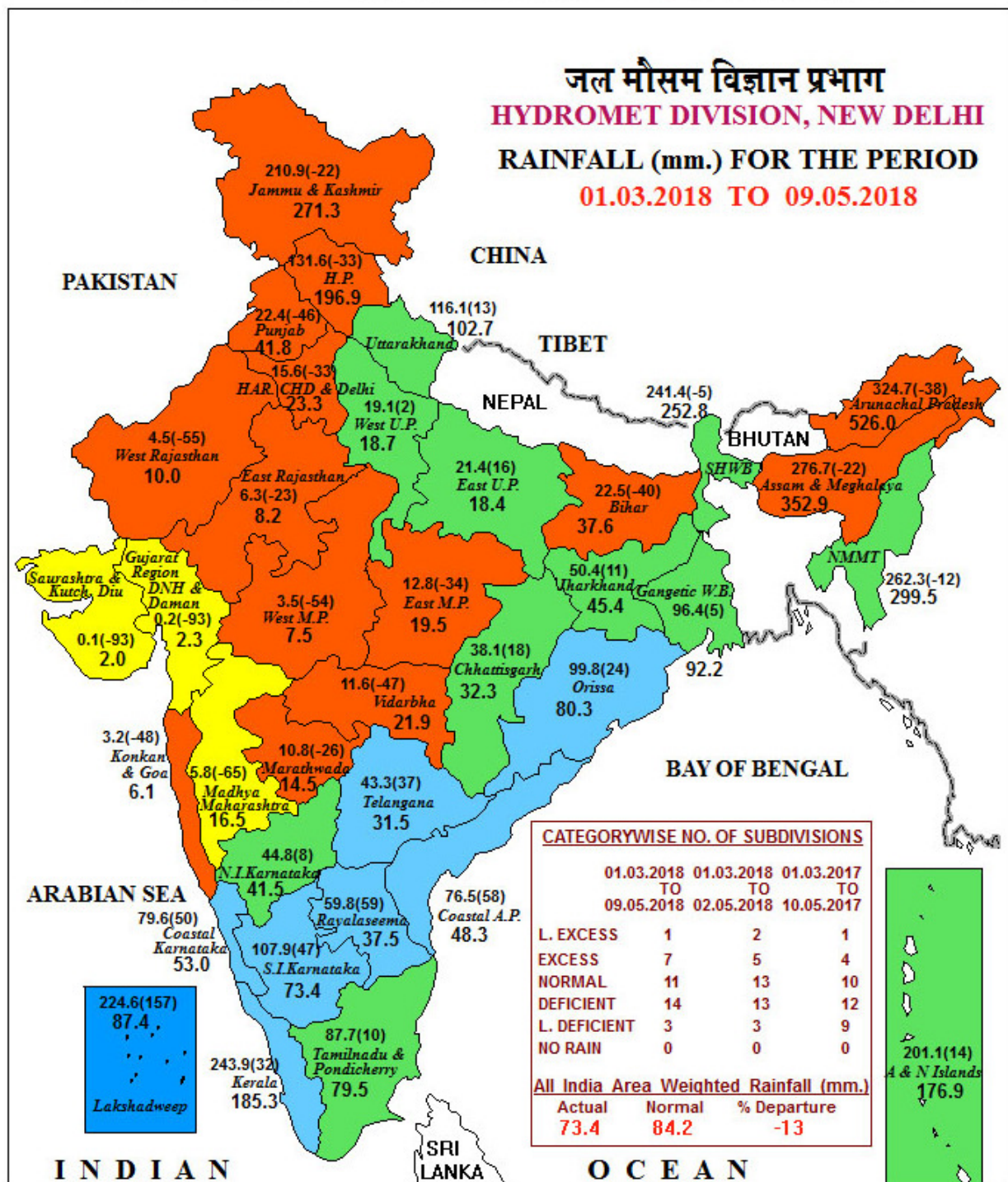
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
 ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

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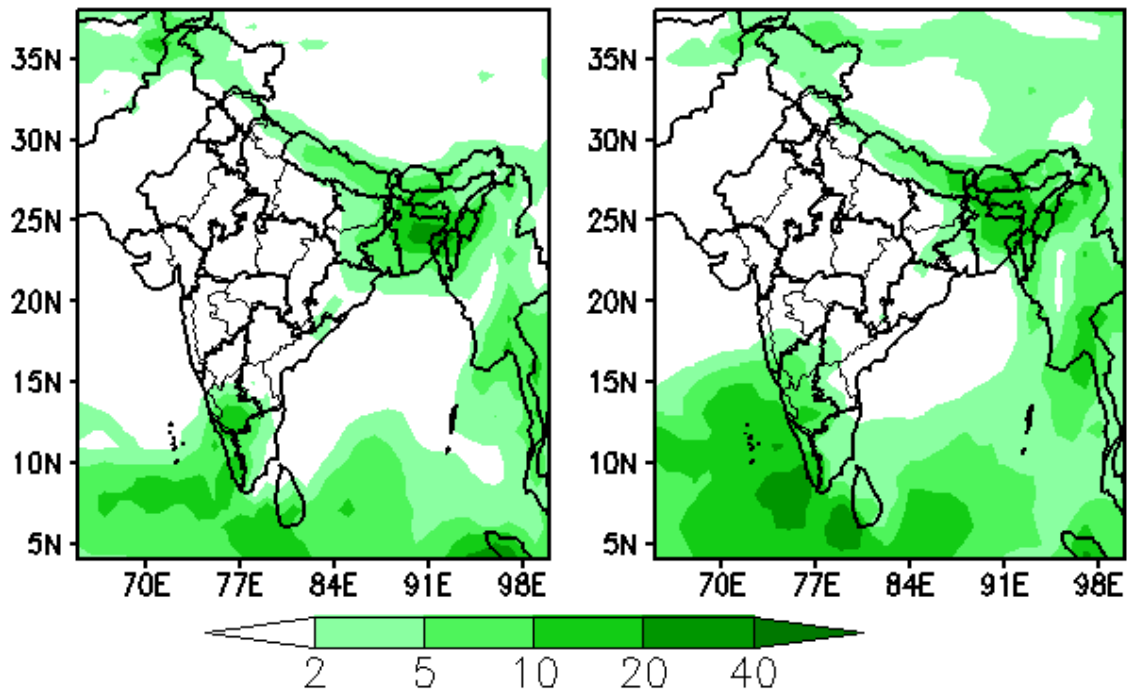
Annexure III

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2018								
Sr. No	MET.SUB-DIVISIONS	10 MAY	11 MAY	12 MAY	13 MAY	14 MAY	15 MAY	16 MAY
1	ANDAMAN & NICO.ISLANDS	SCT	SCT	FWS	FWS	FWS	SCT	SCT
2	ARUNACHAL PRADESH	FWS	SCT	SCT	SCT	SCT	FWS	FWS
3	ASSAM & MEGHALAYA	WS ^{TS}	FWS	SCT	FWS	FWS	FWS	FWS
4	NAGA.MANI.MIZO.& TRIPURA	FWS ^{TS}	FWS	SCT	FWS	FWS	FWS	FWS
5	SUB-HIM.W. BENG. & SIKKIM	SCT ^{S#}	SCT	SCT	FWS ^S	FWS ^S	FWS	FWS
6	GANGETIC WEST BENGAL	SCT ^{S#}	SCT ^{TS}	ISOL ^{TS}	SCT ^S	SCT ^S	SCT	SCT
7	ODISHA	SCT ^{TS}	ISOL	ISOL	SCT ^S	SCT ^S	SCT	ISOL
8	JHARKHAND	ISOL ^{TS}	ISOL ^{TS}	ISOL ^{TS}	SCT ^S	SCT ^S	ISOL	ISOL
9	BIHAR	ISOL ^{TS}	ISOL	ISOL	SCT ^S	SCT ^S	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL	D	ISOL ^{TS}	SCT ^S	SCT ^S	ISOL	D
11	WEST UTTAR PRADESH	ISOL	D	D ^{DS}	SCT ^S	ISOL ^S	ISOL	D
12	UTTARAKHAND	ISOL	D	ISOL	WS ^{S#}	FWS ^{S#}	ISOL	ISOL
13	HARYANA CHD. & DELHI	ISOL	D	D	ISOL	ISOL ^{TS}	ISOL	D
14	PUNJAB	D	D	ISOL	ISOL	ISOL ^{TS}	D	D
15	HIMACHAL PRADESH	D	D	ISOL	FWS ^{S#}	WS ^{S#}	SCT	ISOL
16	JAMMU & KASHMIR	D	D	SCT ^{TS}	FWS ^{S#}	FWS ^{S#}	SCT	SCT
17	WEST RAJASTHAN	D	D	D	ISOL	ISOL ^{DS}	D ^{DS}	D
18	EAST RAJASTHAN	D	D	D	D	ISOL ^{DS}	ISOL ^{DS}	D
19	WEST MADHYA PRADESH	D	D	D	ISOL	ISOL	ISOL	D
20	EAST MADHYA PRADESH	D	D	ISOL	ISOL	ISOL	ISOL	ISOL
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	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	D	ISOL	ISOL	ISOL	D	ISOL
26	VIDARBHA	D	D	ISOL	ISOL	ISOL	D	D
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	ISOL	ISOL ^{TS}	SCT	FWS	FWS	SCT	SCT
29	TELANGANA	ISOL	ISOL	ISOL	SCT	SCT	SCT	ISOL
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	SCT ^{TS}	SCT	SCT	SCT	FWS	SCT	SCT
32	COASTAL KARNATAKA	WS ^{TS}	FWS	FWS	WS	WS	FWS	FWS
33	NORTH INT.KARNATAKA	SCT ^{TS}	ISOL	ISOL	SCT	SCT	SCT	SCT
34	SOUTH INT.KARNATAKA	FWS	FWS ^{TS}	SCT	SCT ^{TS}	FWS ^{TS}	FWS	FWS
35	KERALA	WS ^{TS}	FWS ^{TS}	FWS	FWS ^{TS}	FWS ^{TS}	FWS	FWS
36	LAKSHADWEEP	WS	SCT	SCT	SCT	FWS	FWS	FWS
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 (+4.5 °C to +6.4 °C)		SEVERE HEAT WAVE (> +6.4)
THUNDER SQUALL		^{DS/TS} DUST/THUNDERSTORM		COLD WAVE (-4.5 °C to -6.4 °C)		SEVERE COLD WAVE (< -6.4)		

Actual Rainfall (mm/day)

(Week1: 11May-17May)

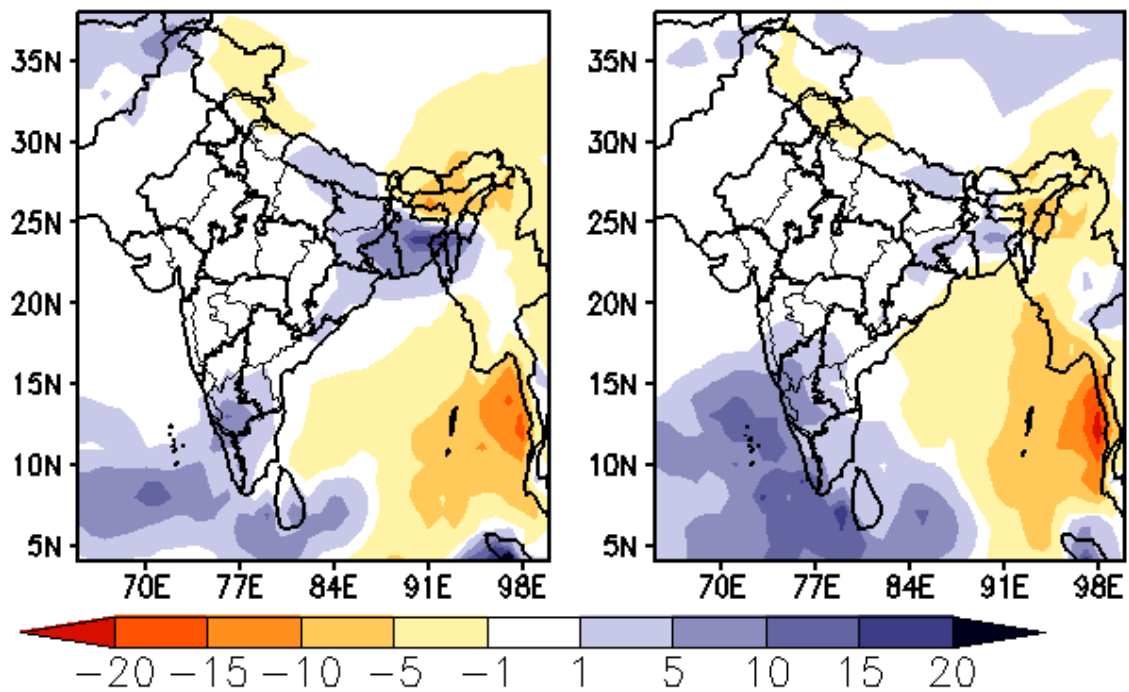
(Week2: 18May-24May)



Rainfall Anomaly (mm/day)

(Week1: 11May-17May)

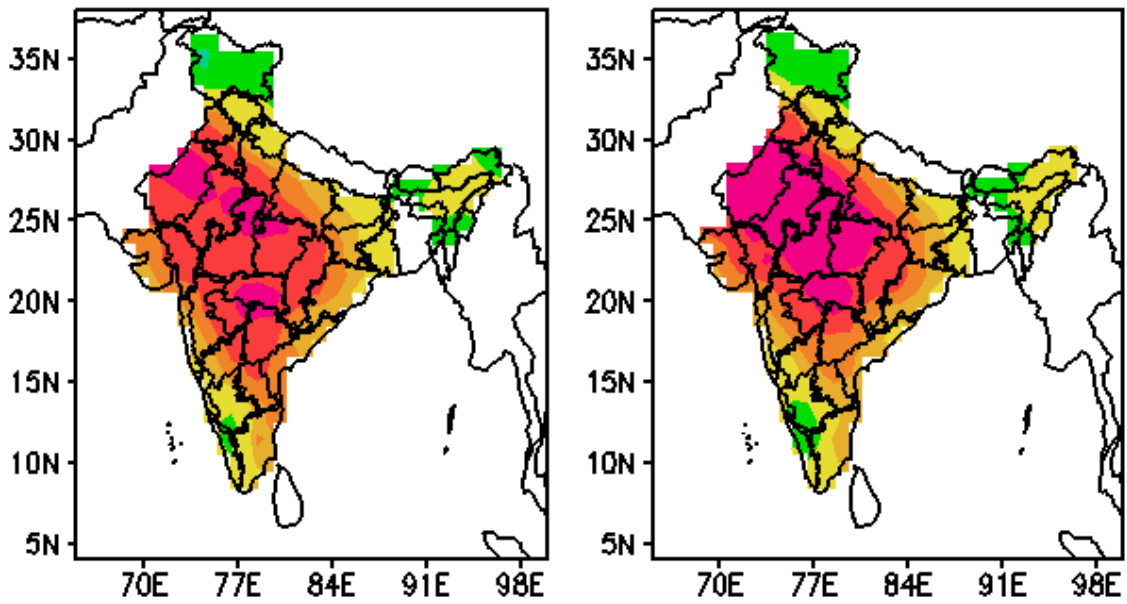
(Week2: 18May-24May)



MME Bias Corrected Actual Tmax (Deg C)

(Week1: 11May-17May)

(Week2: 18May-24May)



MME Bias Corrected Tmax Anomaly (Deg)

(Week1: 11May-17May)

(Week2: 18May-24May)

