



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

Dated: 05 May, 2022

Current Weather Status and Outlook for next two weeks (05 to 18 May, 2022)

Significant Features of current week ended on 04 May, 2022

- Under the influence of trough/wind discontinuity over Peninsular in the lower tropospheric levels, isolated to scattered rainfall/thunderstorm activity occurred over Peninsular India on most of the days of the week.
- Due to east-west trough from Northwest to Northeast India and southwesterly winds from Bay of Bengal to northeastern states, fairly widespread to widespread rainfall/thunderstorm activity over Northeast India & adjoining east India during most days of the week.
- **Heat wave to severe heat wave conditions** occurred at most places over West Rajasthan on one day; at isolated places over Himachal Pradesh on two days and over Haryana, Chandigarh & Delhi and East Uttar Pradesh on one day each during the week.
- **Heat wave** conditions at many places occurred over West Rajasthan and Vidarbha on one day each; at a few places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and Vidarbha on one day each; at isolated places over East Madhya Pradesh Pradesh on three days, over Haryana, Chandigarh & Delhi, Jharkhand, Odisha, West Uttar Pradesh, West Madhya Pradesh, West Rajasthan and Saurashtra & Kutch on two days each; over Vidarbha, Jammu Division of Jammu Kashmir & Ladakh, Gangetic West Bengal, East Uttar Pradesh, East Rajasthan, Punjab and Madhya Maharashtra on one day each during the week.
- The **highest maximum temperature** of 47.4°C recorded at Banda (East Uttar Pradesh) on 29th April 2022.

Weekly Rainfall Scenario (28 April to 04 May, 2022)

During the week, rainfall was below Long Period Average (LPA) by 14% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	10.1	11.7	-14%
Northwest India	4.4	7.7	-43%
Central India	2.4	3	-21%
South Peninsula	11.7	11.1	5%
East & northeast India	35.3	38.9	-9%

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

Seasonal Rainfall Scenario (01 March to 04 May, 2022)

For the country as a whole, cumulative rainfall during this year's pre-monsoon season upto 04 May, 2022 is below LPA by 28%. 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	55	76.5	-28%
Northwest India	14.3	83.7	-83%
Central India	7.2	19.3	-63%
South Peninsula	66.5	55	21%
East & northeast India	220.3	210.1	5%

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

Chief synoptic conditions as on 05 May, 2022

- A feeble Western Disturbance as a trough in middle tropospheric westerlies runs along Long. 62°E to the north of Lat. 30°N.
- A cyclonic circulation over northwest Madhya Pradesh & neighbourhood at lower tropospheric levels.
- A trough/wind discontinuity runs from above cyclonic circulation over northwest Madhya Pradesh to Comorin area at lower tropospheric levels.
- Another trough runs from cyclonic circulation over northwest Madhya Pradesh to

Meghalaya at lower tropospheric levels.

- A trough runs along Long.90°E to the north of Lat.20°N between 3.1 km & 3.6 km above mean sea level.
- A cyclonic circulation over South Andaman Sea & neighbourhood extending upto mid tropospheric levels. Under its influence, a Low Pressure Area is likely to form over the same region on 06th May. It is very likely to move northwestwards and intensify gradually into a Depression during subsequent 48 hours.

Large scale features as on 05 May, 2022

- Currently, La Niña conditions are prevailing over the equatorial Pacific region. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates that the La Niña conditions are likely to continue throughout the forecast period. Other climate models are also indicating enhanced probability for La Niña conditions during the upcoming season.
- At present neutral Indian Ocean Dipole (IOD) conditions are present over the Indian Ocean and the latest MMCFS forecast indicates that the negative IOD conditions are likely to develop starting from April to June (AMJ) season.
- The Madden Julian Oscillation Index (MJO) currently lies in phase 1 with amplitude less than 1. It would move across phases 2, 3, 4 and 5 during next 5 days with gradually increasing amplitude. Hence, MJO will support enhancement of convective activity over the Bay of Bengal during week 1.

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (05 to 11 May, 2022) and Week 2 (12 to 18 May, 2022)

Forecast for week 1 (05 to 11 May, 2022):

- Under the influence of an east-west trough from northwest Madhya Pradesh to Meghalaya and southwesterly winds from Bay of Bengal in lower tropospheric levels:
 - ❖ Scattered to fairly widespread light/moderate rainfall very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during the week with isolated **thunderstorm/lightning** over the region on 05th & 06th May.

- ❖ Isolated to scattered light/moderate rainfall very likely over Bihar, Jharkhand, West Bengal & Sikkim and Odisha during next 5 days with isolated **thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph) over the region on 05th & 06th May.**
- Under the influence of a Western Disturbance:
 - ❖ Isolated light rainfall very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand during 1st half of the week with thunderstorm/lightning over the region today.
 - ❖ Isolated light rainfall with thunderstorm/lightning very likely over Punjab, Haryana, Uttar Pradesh & West Rajasthan today.
- Due to trough/wind discontinuity over peninsular India in lower tropospheric levels:
 - ❖ Scattered to fairly widespread light/moderate rainfall with **thunderstorm/lightning/gusty winds** very likely over Kerala & Mahe, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and isolated rainfall activity over Coastal & North Interior Karnataka, Andhra Pradesh and Telangana during the week.
 - ❖ **Isolated heavy rainfall** very likely over South Interior Karnataka, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe today.
- Under A cyclonic circulation lies over South Andaman Sea and neighbourhood. Under its influence, a **Low Pressure Area** is likely to form over the same region on 06th May. It is very likely to move northwestwards and intensify gradually into a Depression during subsequent 48 hours. Under its influence;
 - ❖ **Heavy rainfall** at isolated places very likely over Nicobar Islands on today and **Heavy to very heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands during 06th-08th May.

Fishermen Warning:

- ❖ **05th May: Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph** very likely to prevail over Andaman Sea & adjoining Southeast and Eastcentral Bay of Bengal.
- ❖ **06th May: Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** likely to prevail over Southeast & adjoining Eastcentral Bay of Bengal and Andaman Sea.
- ❖ **07th May: Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** likely to prevail over Eastcentral & adjoining Southeast Bay of Bengal and Andaman Sea.
- ❖ **08th May: Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph** likely to prevail over central & adjoining Southeast Bay of Bengal and **(speed reaching 40-50 kmph gusting to 60 kmph)** over Andaman Sea.
- ❖ **09th May: Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph** likely to prevail over Westcentral & adjoining Eastcentral Bay of Bengal and **(speed reaching 40-50 kmph gusting to 60 kmph)** over Andaman Sea.
- Dry weather very likely over remaining parts of the country during most days of the week (**Annexure III**).

Rainfall for week 2 (12 to 18 May, 2022):

- **Increase in rainfall/thunderstorm activity over most parts of the country (outside northwest & adjoining central India) as compared to week 1.**
- Due to trough over east India and strong southwesterly winds from Bay of Bengal to northeastern states at lower tropospheric levels, light to moderate scattered to fairly widespread rainfall with thunderstorm activity is very likely over northeast & East India during most days of the week. **Isolated heavy rainfall is also likely over northeast India during some days of the week.**
- Due to trough/wind discontinuity over south Peninsula India, light/moderate isolated to scattered rainfall along with thunderstorm is likely over south Peninsular India during most days of the week.
- **Overall, rainfall activity is likely to be above normal over northeast, east & adjoining central India, most parts of Peninsular India and below normal over northwest & adjoining central India during the week(Annexure IV).**

Maximum Temperatures for week 1(05 to 11 May, 2022) and week 2(12 to 18 May, 2022)

Maximum Temperatures for Week 1(05 to 11 May, 2022):

- **Maximum Temperatures (as on 04/05/2022)** were **42-44°C** over most parts of Vidarbha; in some parts of Madhya Pradesh and in isolated pockets of Gujarat state, Marathawada, Madhya Maharashtra & and West Uttar Pradesh and **40-42°C** in many parts of Rajasthan & Haryana-Delhi and in isolated pockets of Rayalaseema, Telangana, Jharkhand and in northern parts of Odisha.
- No significant change in maximum temperatures very likely over most parts of Northwest & Central India today and rise by 2-3°C thereafter.
- No significant change in maximum temperatures very likely over rest parts of the country.
- **Heat Wave conditions in isolated pockets over West Rajasthan during 28th-30th April with Severe Heat Wave Conditions on 01st-02nd May;**
- **Heat Wave conditions in some/isolated parts over**
 - ✓ **north Madhya Maharashtra on 05th May**
 - ✓ **Rajasthan during 07th to 11th May**
 - ✓ **south Haryana-Delhi, southwest Uttar Pradesh, Madhya Pradesh & Vidarbha during 08th to 11th May, 2022.**

Maximum Temperatures for week 2 (12 to 18 May, 2022):

- **Maximum temperatures likely to rise over most parts of northwest & adjoining central India as compared to week 1.**
- These are likely to be above normal by 2-4°C over most parts of northwest India, Gujarat, Madhya Pradesh, Chhattisgarh and Odisha. It is likely to be below normal to near normal over rest parts of India (**Annexure V**).
- **Heat wave at isolated pockets likely over northwest & adjoining central India during many days of the week.**

Cyclogenesis:

- **A low pressure area is likely to form over south Andaman Sea and adjoining southeast Bay of Bengal areas on 6th May. There is high probability that the system would move northwestwards and intensify into a depression over southeast Bay of Bengal & adjoining Andaman Sea during subsequent 48 hours.**

Next weekly update will be issued on next Thursday i.e. 12 May, 2022

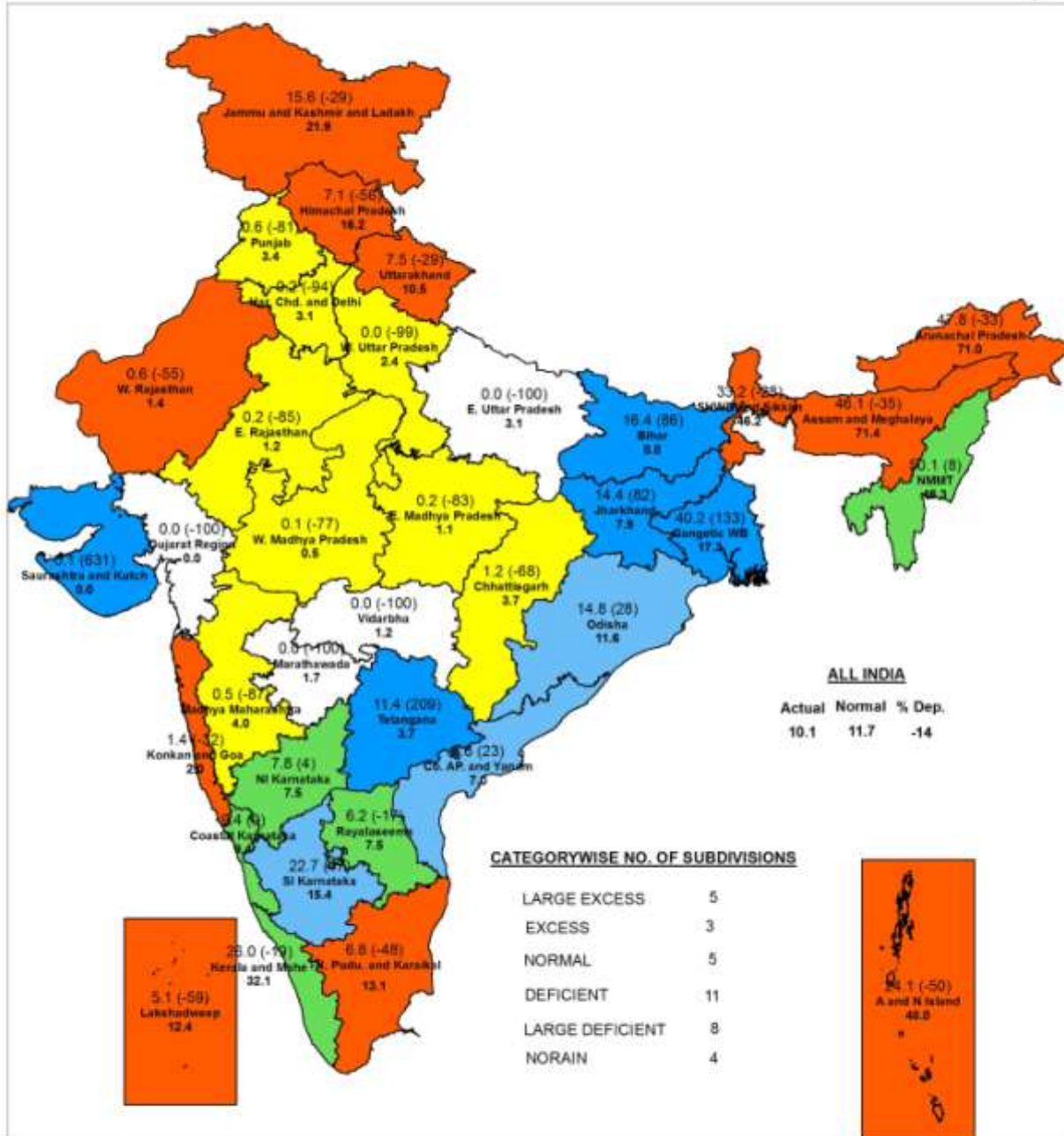


भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Week : 28-04-2022 To 04-05-2022



Legend

Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-49% to -60%] No Rain [-100%] No Data

NOTES :

- a) Rainfall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.

Annexure III

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST-2022

Sr. No	MET.SUB-DIVISIONS	05 MAY	06 MAY	07 MAY	08 MAY	09 MAY	10 MAY	11 MAY
1	ANDAMAN & NICO.ISLANDS	WS ^{L*}	WS ^{L**}	WS ^{L**}	WS ^{L*}	FWS	FWS	FWS
2	ARUNACHAL PRADESH	ISOL ^L	ISOL	SCT	SCT	FWS	WS	WS
3	ASSAM & MEGHALAYA	SCT ^L	SCT ^L	SCT	SCT	FWS	WS	WS
4	NAGA.MANI.MIZO.& TRIPURA	SCT ^L	SCT ^L	SCT	FWS	FWS	FWS	WS
5	SUB-HIM.W. BENG. & SIKKIM	SCT ^L	FWS ^L	FWS	SCT	SCT	WS	WS
6	GANGETIC WEST BENGAL	SCT ^L	SCT ^L	ISOL	ISOL	ISOL	ISOL	DRY
7	ODISHA	SCT ^L	SCT ^L	ISOL ^L	ISOL	ISOL	ISOL	DRY
8	JHARKHAND	SCT ^L	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
9	BIHAR	SCT ^L	ISOL	ISOL	SCT	SCT	ISOL	SCT
10	EAST UTTAR PRADESH	ISOL ^L	ISOL ^L	ISOL	ISOL	ISOL	DRY	DRY
11	WEST UTTAR PRADESH	ISOL ^L	DRY	DRY	DRY [†]	DRY [†]	DRY	DRY
12	UTTARAKHAND	ISOL ^L	ISOL	ISOL	DRY	DRY	ISOL	ISOL
13	HARYANA CHD. & DELHI	ISOL	DRY	DRY	DRY [†]	DRY [†]	DRY	DRY
14	PUNJAB	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL ^L	ISOL	ISOL	DRY	DRY	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT ^L	ISOL ^L	ISOL	DRY	DRY	ISOL	DRY
17	WEST RAJASTHAN	ISOL ^{DSTS}	DRY	DRY [†]	DRY [†]	DRY [†]	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY [†]	DRY [†]	DRY [†]	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY [†]	DRY [†]	DRY	DRY
20	EAST MADHYA PRADESH	ISOL ^L	DRY	DRY	DRY [†]	DRY [†]	DRY	DRY
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY [†]	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	ISOL ^L	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	ISOL ^L	DRY	DRY	DRY [†]	DRY [†]	DRY	DRY
27	CHHATTISGARH	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	DRY	DRY
28	COASTAL ANDHRA PR. & YANAM	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	ISOL	ISOL
29	TELANGANA	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	DRY	DRY
30	RAYALASEEMA	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	ISOL ^L	ISOL	ISOL
31	TAMIL. PUDU. & KARAIKAL	SCT ^{L*}	SCT ^L	SCT	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	FWS ^L	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL ^L	ISOL	ISOL	ISOL	ISOL	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	FWS ^{L*}	SCT ^L	SCT	SCT	SCT	SCT	ISOL
35	KERALA & MAHE	FWS ^{L*}	FWS ^L	FWS ^L	SCT ^L	SCT ^L	SCT	SCT
36	LAKSHADWEEP	FWS ^L	SCT	SCT	SCT	SCT	SCT	SCT

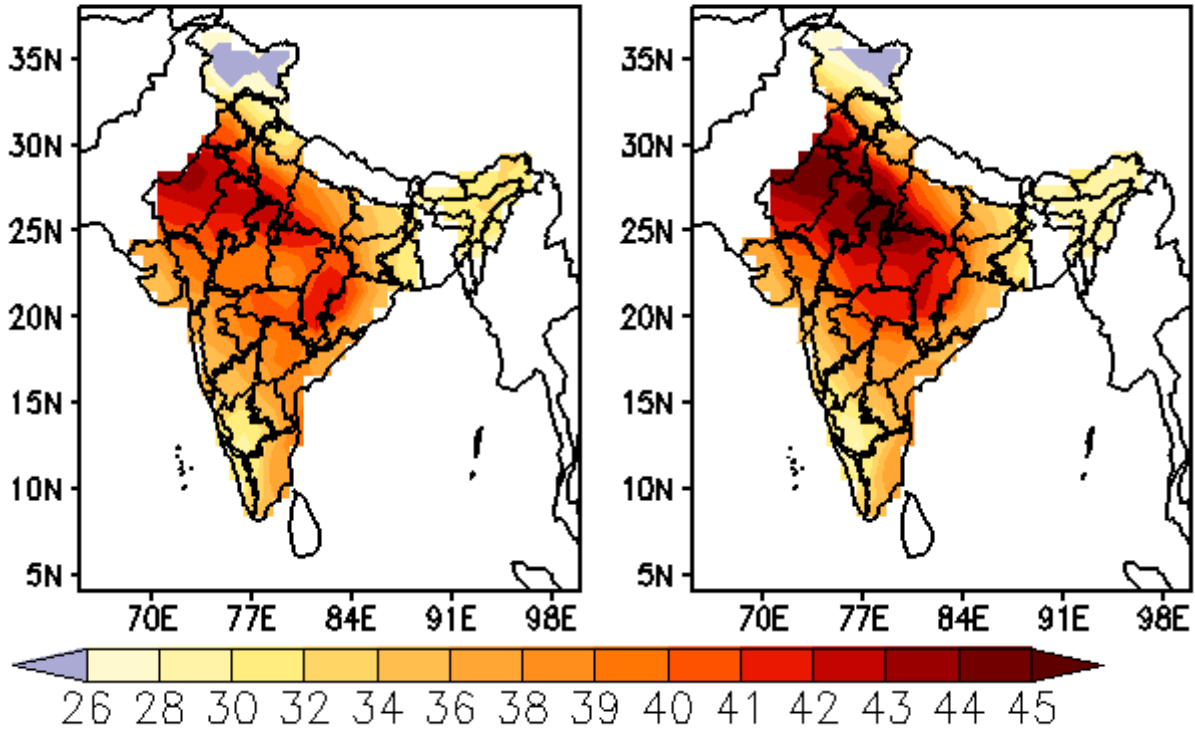
LEGENDS:

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 - NO 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)	
F Fog	* Snowfall	D Dust storm	S Thunderstorm with Squall	L Thunderstorm with Lightning	# Thunderstorm with Hail
† Heat Wave (Maximum temperature departure from Normal +4.5 °C to +6.4 °C)			†† Severe Heat Wave (Maximum temperature departure from Normal ≥ +6.5 °C)		
‡ Cold Wave (Minimum temperature departure from Normal -4.5 °C to -6.4 °C)			‡‡ Severe Cold Wave (Minimum temperature departure from Normal ≤ -6.5 °C)		

MME Bias corrected forecast Tmax (Deg)

(Week1: 06May-12May)

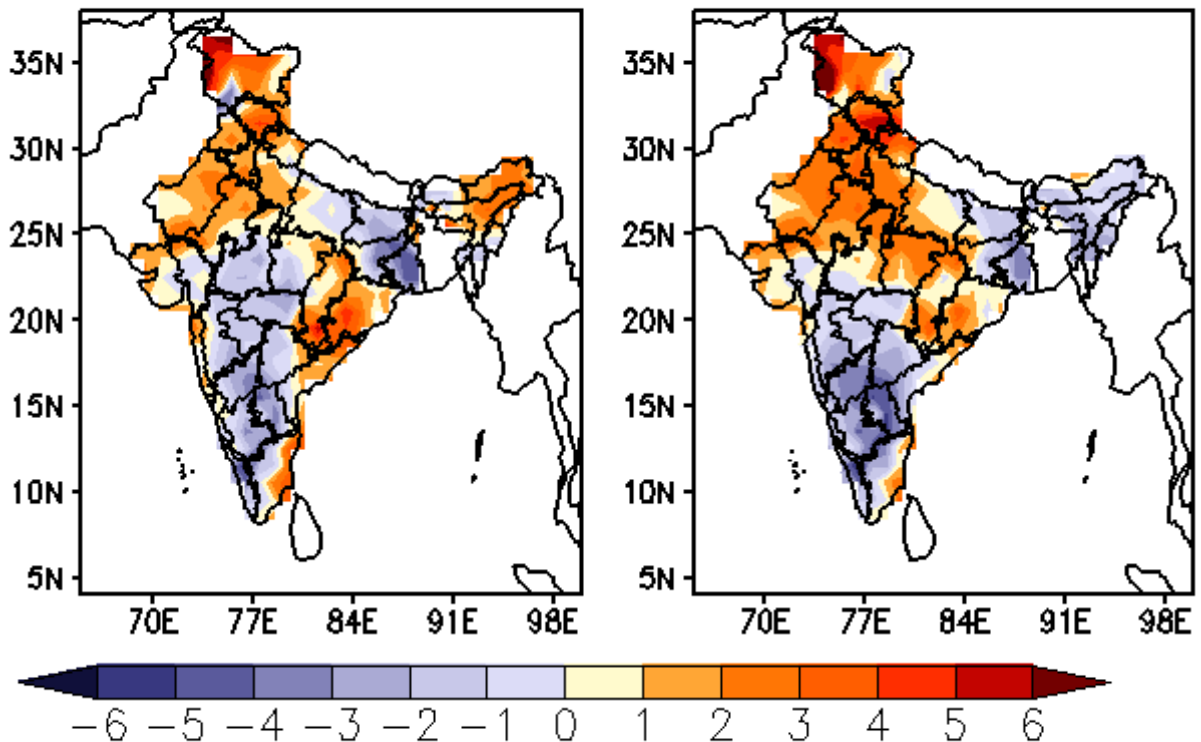
(Week2: 13May-19May)



MME forecast Tmax anomaly (Deg C)

(Week1: 06May-12May)

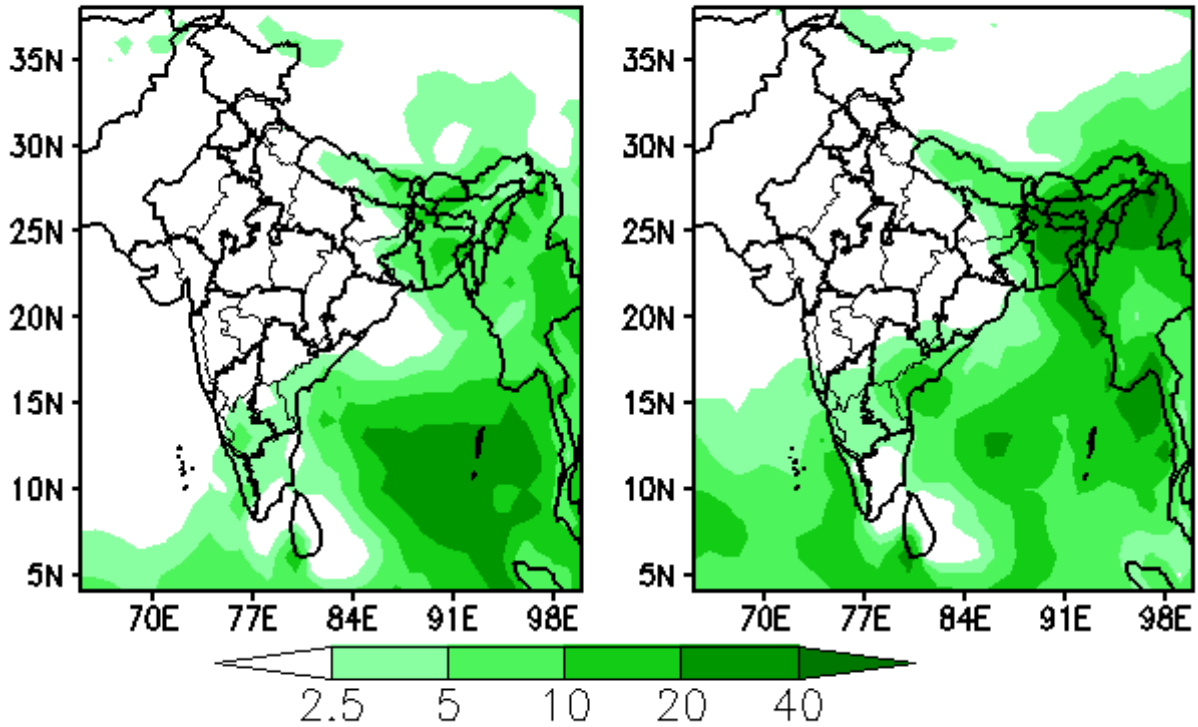
(Week2: 13May-19May)



Forecast Rainfall (mm/day)

(Week1: 06May-12May)

(Week2: 13May-19May)



Forecast Rainfall Anomaly (mm/day)

(Week1: 06May-12May)

(Week2: 13May-19May)

