



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Saturday, April 27, 2024 Time of Issue: 1700 hours IST (EVENING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- A Western Disturbance as a cyclonic circulation lies over central Afghanistan with a trough along 64°E to the north of 25°N in middle & upper tropospheric levels. An induced cyclonic circulation lies over north Haryana in lower tropospheric levels. Under their influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall/snowfall accompanied with thunderstorm, lightning very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and isolated rainfall over Uttarakhand during 27th-30th April, 2024 with possibility of hailstorm over Himachal Pradesh and Uttarakhand during 27th-29th April, 2024.
 - ✓ Isolated **Heavy rainfall** also likely over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad during 27th-29th April and over Himachal Pradesh on 27th & 29th April, 2024.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm**, **lightning & gusty winds (40-50 kmph)** very likely over Punjab, Haryana-Chandigarh-Delhi during 27th-29th and over northwest Uttar Pradesh on 27th April, 2024.
 - ✓ Isolated Hailstorm very likely over Punjab on 27th & 28th and over Haryana on 27th April, 2024.
 - ✓ Strong surface winds (25-35 kmph) very likely to prevail over East Uttar Pradesh, West Rajasthan on 27th & 28th April.
- A trough/wind discontinuity runs from Marathwada to north Tamil Nadu in lower tropospheric levels. Under their influence:
 - ✓ Isolated light rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Madhya Maharashtra, Marathwada, Madhya Pradesh, Vidarbha, Chhattisgarh on 27th & 28th April, 2024.
 - ✓ Isolated Hailstorm very likely over West Madhya Pradesh on 27th and over East Madhya Pradesh on 27th & 28th April, 2024.
 - Isolated light to moderate rainfall accompanied with isolated thunderstorm & lightning very likely over Kerala & Mahe on 27th, 28th & 30th and over Coastal Andhra Pradesh & Yanam and Telangana on 28th & 29th April, 2024.
- A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under its influence:
 - Fairly widespread to widespread light to moderate rainfall/snowfall accompanied with isolated thunderstorm & lightning & gusty winds (40-50 kmph) very likely over Arunachal Pradesh and scattered to fairly widespread rainfall over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 27th April-01st May, 2024.
 - Isolated light to moderate rainfall accompanied with thunderstorm & lightning very likely over Sikkim on 29th April-01st May, 2024.
 - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya during 28th April-01st May with isolated very heavy rainfall over Arunachal Pradesh on 30th April & 01st May, 2024.

Maximum temperature observation and forecast for next 5 days:

Yesterday, maximum temperatures were in the range of 42-44°C over many parts of Odisha, Gangetic West Bengal, Rayalaseema; in some parts of Jharkhand, Bihar, Telangana, Chhattisgarh and in isolated pockets over Vidarbha, East Uttar Pradesh; 40-42°C over many parts of West Uttar Pradesh, Haryana-Delhi; in some parts of North Interior Karnataka in isolated pockets of East Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal. These were above normal by 4-6°C over in many parts of Gangetic West Bengal in some parts of Bihar, Odisha; in isolated pockets of East Uttar Pradesh, Jharkhand and above normal by 2-4°C over many parts of West Uttar Pradesh, Haryana-Chandigarh-Delhi; in some parts of Punjab and in isolated pockets over Madhya Maharashtra, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Chhattisgarh.

Heat Wave, Warm Night and Hot & Humid weather warning for next 5 days

- Heat Wave to severe heat wave conditions very likely to prevail in many places over Gangetic West Bengal, in some parts over Odisha and in isolated pockets over Sub-Himalayan West Bengal during next 5 days. Heat wave conditions in isolated pockets over Bihar, Jharkhand, Rayalaseema, Interior Karnataka, Tamil Nadu, during next 5 days; Kerala & Mahe during 27th-28th; Konkan during 27th-29th and Uttar Pradesh during 28th-30th, Coastal Andhra Pradesh & Yanam during 30th April-01st May, 2024.
- Hot and humid weather very likely to prevail over West Assam & Meghalaya, Tripura during 27th-29th; Kerala & Mahe, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Konkan & Goa during 27th April-01st May 2024.
- Warm night conditions very likely over East Uttar Pradesh 27th & 28th April and Bihar on 27th April, 2024.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Himachal Pradesh; at a few places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Haryana-Chandigarh-Delhi, Punjab, Vidarbha and at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Odisha, Gujarat Region, Madhya Maharashtra, Marathwada, Chhattisgarh, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Kerala & Mahe.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Assam & Meghalaya: Karimganj_(dist Karimganj) 7, Matijuri (dist Hailakandi) 4, Matijuri (dist Hailakandi) 4, Badarpur (dist Karimganj) 3, B P Ghat (dist Karimganj) 3, Lala (dist Hailakandi) 3, Tezpur (dist Shonitpur) 2; Nagaland, Manipur, Mizoram & Tripura: Kailashahar (dist Unakoti) 5, Kailashahar (dist Unakoti) 3; Coastal Andhra Pradesh & Yanam: Araku Valley (dist Alluri Sitharamaraju) 3; Himachal Pradesh: Kothi (dist. Kullu) 3, Tissa (dist. Chamba) 2, Manali (dist. Kullu) 2; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad: Nowgam (dist Kupwara) 3.
- Yesterday, Heat Wave conditions in many places with severe heat wave in isolated pockets prevailed over Gangetic West Bengal and heat wave conditions in isolated pockets over Sub-Himalayan West Bengal, Bihar, Jharkhand, Odisha, Rayalaseema, Interior Karnataka and Kerala & Mahe. *Heat wave conditions have been prevailing over Odisha since 15th and Gangetic West Bengal since 17th April.*
- Hailstorm also observed at isolated places over Haryana (Charkhi Dadri, Hissar, Narnaul).
- Minimum Temperature Departures (as on 27-04-2024): Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Konkan & Goa, Madhya Maharashtra; at isolated places over Bihar; appreciably above normal (3.1°C to 5.0°C) at isolated places over Gangetic West Bengal, Marathwada, Gujarat Region; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Saurashtra & Kutch and North Interior Karnataka; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Andaman & Nicobar Islands; at isolated places over Coastal and South Interior Karnataka, Rayalaseema, East Rajasthan, Haryana-Chandigarh-Delhi and Chhattisgarh. These were below normal (-1.6°C to -3.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.0°C is reported at Amritsar (Punjab) over the plains of the country.
- Maximum Temperature Departures (as on 26-04-2024): Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Gangetic West Bengal and Bihar; at isolated places over Sub-Himalayan West Bengal & Sikkim; appreciably above normal (3.1°C to 5.0°C) at many places over Rayalaseema; at a few places over Odisha, Telangana, Jharkhand and at isolated places over Tamil Nadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at a few places over Chhattisgarh, Arunachal Pradesh; at isolated places over Coastal Andhra Pradesh & Yanam, Interior Karnataka, Konkan & Goa and Kerala & Mahe. These were markedly below normal (-5.1°C or less) at a few places over Madhya Pradesh below normal (-1.6°C to -3.0°C) at a few places over Gujarat state at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.6°C was reported at Nandyal (Rayalaseema) over the country.





Meteorological Analysis (Based on 1430 hours IST)

- The Western Disturbance as a cyclonic circulation over central Afghanistan between 3.1 & 5.8 km above mean sea level with a trough aloft in upper tropospheric westerlies with its axis at 7.6 km above mean sea level roughly along long. 64°E to the north of lat. 25°N persists.
- The induced cyclonic circulation over north Haryana & neighbourhood and extends upto 1.5 km above mean sea level persists.
- The cyclonic circulation over northeast Assam & neighbourhood extending upto 4.5 km above mean sea level persists.
- The cyclonic circulation over north Bangladesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- The trough/wind discontinuity from Marathwada to north Tamil Nadu across Madhya Maharashtra, interior Karnataka extending upto 1.5 km above mean sea level persists.
- The cyclonic circulation over south Chhattisgarh & neighbourhood at 0.9 km above mean sea level persists.
- The cyclonic circulation over Comorin area & neighbourhood at 0.9 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 04th May, 2024)

- Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- No significant change in maximum temperatures very likely over Central India during next 2 days and rise by 2-3°C thereafter.
- Rise in maximum temperatures by about 2 °C very likely over East India during next 3 days and no significant change thereafter.
- Rise in maximum temperatures by 2-3°C very likely over Maharashtra and many parts of south peninsular India during next 3 days.
- No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 04th-06th May, 2024)

- Isolated to scattered light/moderate rainfall likely over Northwest, Northeast & south Peninsular India.
- Dry weather likely to prevail over rest parts of the country.





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Table-1

	7 Days Ra	ainfall F	orecast	t				
S.	Subdivision		28-	29-	30- Apr	01- Мах	02- May	03- May
No.	Subalvision	Apr Day 1	Apr Day 2	Apr Day 3	Apr Day 4	May Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
2	ARUNACHAL PRADESH	FWS	WS	WS	WS	WS	WS	FWS
3	ASSAM & MEGHALAYA	SCT	FWS	FWS	WS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	SCT	FWS	FWS	WS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	SCT	SCT	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
8	JHARKHAND	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	SCT	ISOL	SCT	ISOL	ISOL	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
14	PUNJAB	SCT	SCT	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	WS	WS	WS	SCT	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	WS	WS	WS	FWS	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
21	GUJARAT REGION	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
26	VIDARBHA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
29	TELANGANA	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
31	TAMILNADU PUDUCHERRY & KARAIKAL	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
35	KERALA & MAHE	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
36	LAKSHADWEEP	DRY	SCT	DRY	DRY	DRY	DRY	DRY

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





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Fig. 2: Departure of Maximum Temperatures

Fig. 1: Maximum Temperatures

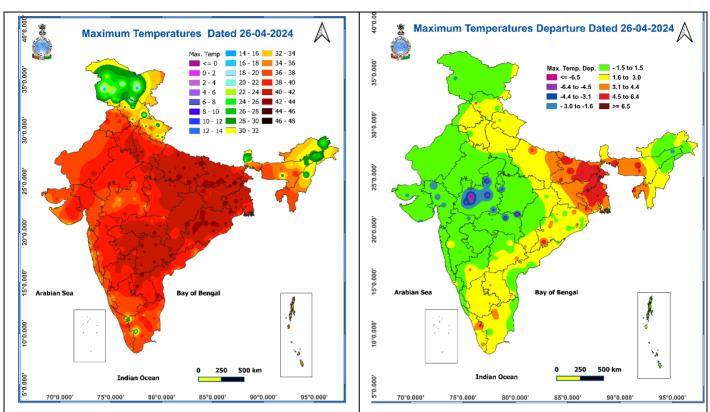
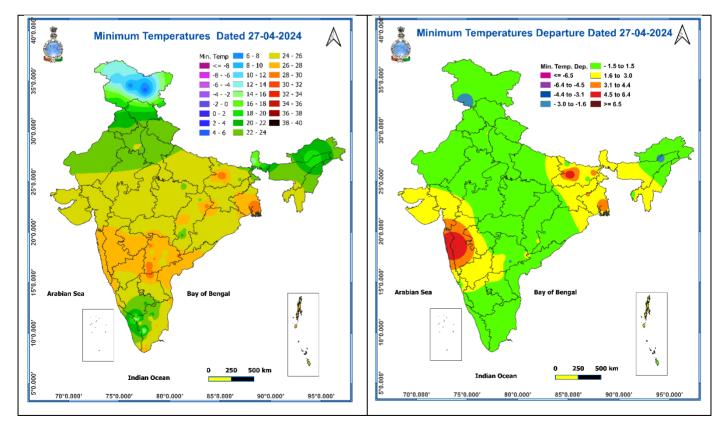


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



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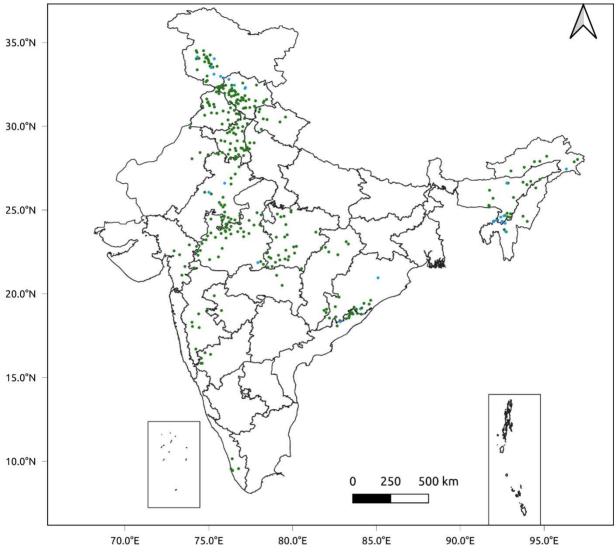




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 26-4-2024 to 0830 IST of 27-4-2024



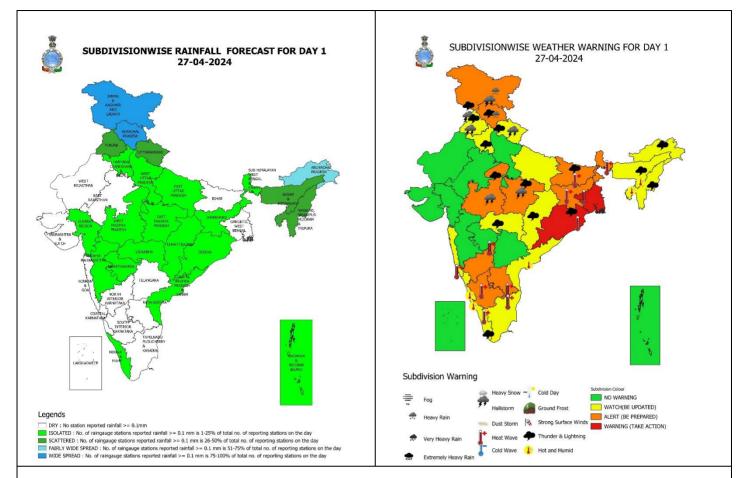
Legends

- Very Light to Light Rainfall (0.1 15.5 mm)
- Moderate Rainfall (15.6 64.4 mm)
- Heavy Rainfall (64.5 115.5 mm)
- Very Heavy Rainfall (115.6 204.4 mm)
- Extremely Heavy Rainfall (>=204.5 mm)





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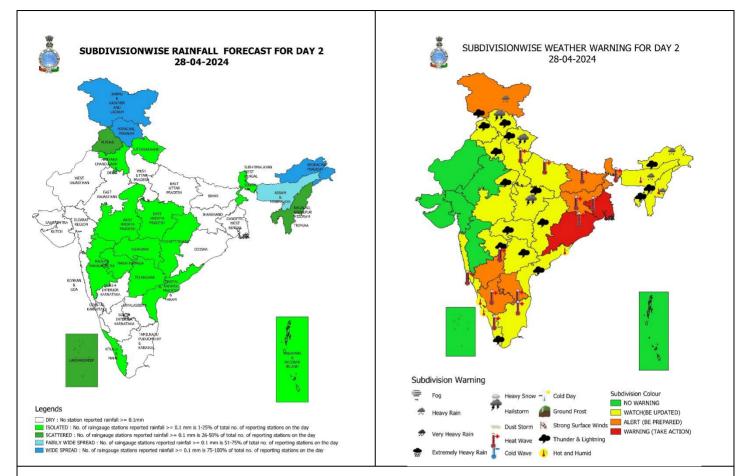
27 April (Day 1):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh and Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Vidarbha, Chhattisgarh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Odisha; with lightning at isolated places over Arunachal Pradesh and Kerala & Mahe.
- Heavy rainfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- **Warm night** very likely to prevail in isolated pockets over East Uttar Pradesh and Bihar.
- Hot and humid weather very likely to prevail over west Assam, Meghalaya, Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over north Odisha; heat wave conditions in isolated pockets over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema and Interior Karnataka.





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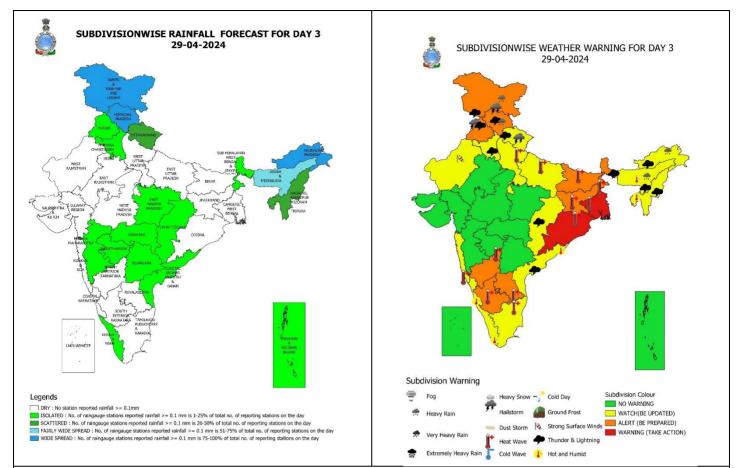
28 April (Day 2):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh and East Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana-Chandigarh-Delhi, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana; with lightning at isolated places over Arunachal Pradesh and Kerala & Mahe.
- Heavy rainfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and Assam & Meghalaya.
- **Warm night** very likely to prevail in isolated pockets over East Uttar Pradesh.
- Hot and humid weather very likely to prevail over west Assam, Meghalaya, Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over north Odisha; heat wave conditions in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema and Interior Karnataka.





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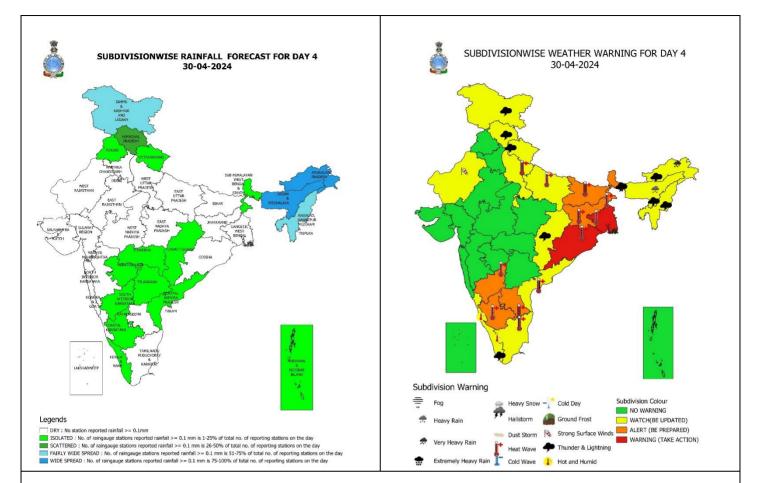
29 April (Day 3):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh and Punjab; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Nagaland, Manipur, Mizoram & Tripura; with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Haryana-Chandigarh-Delhi, Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana; with lightning at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim.
- Heavy rainfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh and Assam & Meghalaya.
- Hot and humid weather very likely to prevail over west Assam, Meghalaya, Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over north Odisha; heat wave conditions in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Interior Karnataka.





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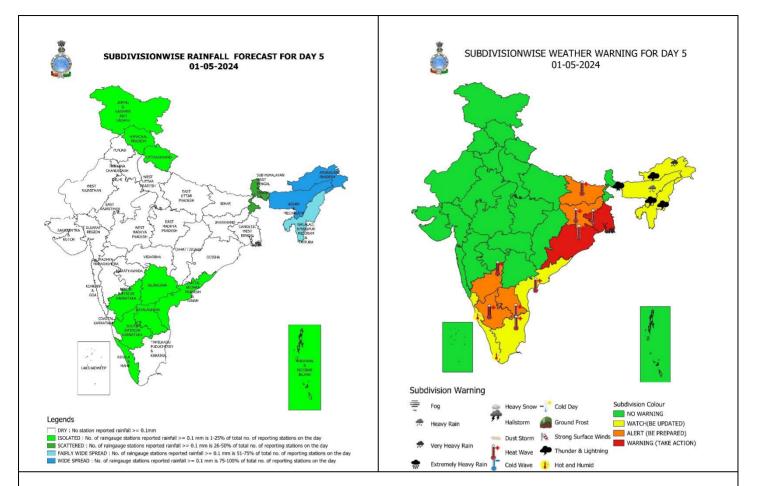
30 April (Day 4):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya and Chhattisgarh; with lightning at isolated places over Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe.
- Heavy to very rainfall very likely at isolated places over Arunachal Pradesh; Heavy rainfall very likely at isolated places over Assam & Meghalaya.
- ***** Hot and humid weather very likely to prevail over Kerala & Mahea and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over north Odisha; heat wave conditions in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.





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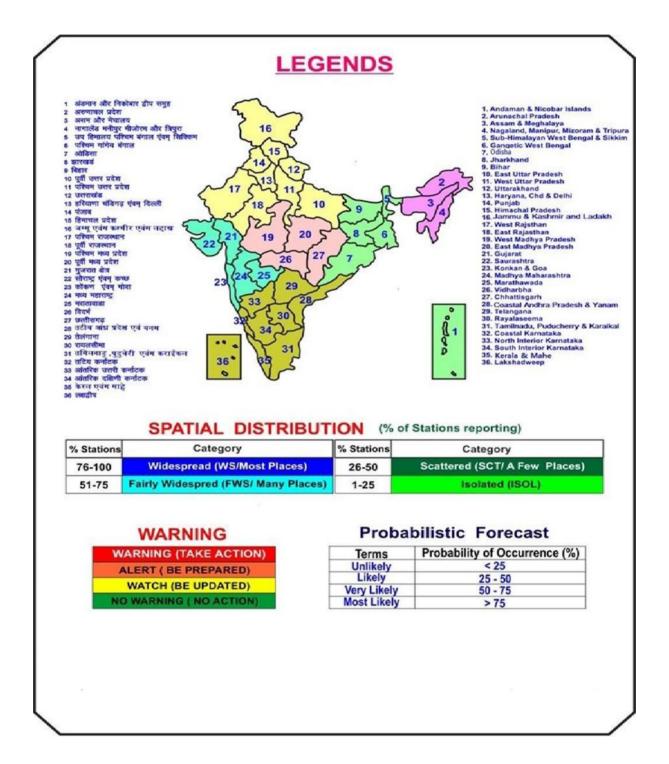
01 May (Day 5):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya; with lightning at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim.
- Heavy to very rainfall very likely at isolated places over Arunachal Pradesh; Heavy rainfall very likely at isolated places over Assam & Meghalaya.
- * Hot and humid weather very likely to prevail over Kerala & Mahe and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over north Odisha; heat wave conditions in isolated pockets over Bihar, Jharkhand, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.





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	WARNING	EGENDS Probal	pilistic Forecast					
	WARNING (TAKE ACTION)	Terms Unlikely	Probability of Occurrence (%) < 25					
_	ALERT (BE PREPARED)	Likely	25 - 50					
		Very Likely	50 - 75					
- 10	NO WARNING (NO ACTION)	Most Likely	> 75					
ain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *							
	(a) Based on Departure from normal Heat Wave: Maximum Temperature Depa	I arture from normal 4.5						
į +	Severe Heat Wave: Maximum Temperatu		nai 20.5° C					
Heat Wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C							
	(c). Criteria for heat wave for coasta When maximum temperature departure is temperature ≥37°C		eat Wave may be described provided maxin					
Î.	When maximum temperature remain							
Varm Night	Warm Night: When minimum temperature Severe Warm Night: When minimum tem							
	Gevere warm Night: when minimum tem	iperature departure >6	4 0.					
	When minimum temperature of a (a). Based on departure Cold Wave: Minimum Temperature Depar Severe Cold Wave: Minimum Temperatur	rture from normal -4.5	°C to -6.4 °C.					
] -								
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is ≤ 4.0 °C							
	Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C							
	(c) For Coastal Stations							
	When Minimum Temperature departure is	s ≤-4.5 °C & actual M	/inimum Temperature is ≤ 15 °C					
	When minimum temperature of a st	tation ≤10°C for pl	ains and ≤0°C for hilly regions					
0-	Based on departure							
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.							
Cold Day	Severe Cold Day: Maximum Temperature	e Departure from norm	al ≤ -6.5 °C					
	Phenomenon of small droplets	suspended in ai	and the horizontal visibility < 1					
Ø	Moderate Fog: When the visibility between	en 500-200 metres						
-	Dense Fog: when the visibility between 50- 200 metres							
Fog	Very Dense Fog: when the visibility < 50	metres						
<i>Ff</i> nunderstorm	Sudden electrical discharges manife sound (thunder)	ested by a flash of I	ight (Lightning) and a sharp rumbling					
Dust/Sand Storm	An ensemble of particles of dust or turbulent wind.	sand energetically	lifted to great heights by a strong an					
"	Ice deposits on ground							
"	Air temperature ≤4°C (over Plains)							
Frost								
~	A strong wind that rises sudde	nly, lasts for atle	east 1 minute.					
47	Moderate: Wind speed 52-61 kmph							
Squall	Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph							
	Effect of various waves in the sea of							
	Rough to very rough: Wind speed 41-62 High to very high: Wind speed 63-117 km							
Sea State	Phenomenal: Wind speed 63-117 kmph (>6							
	Cyclonic Storm: Wind speed 62-87 kmph							
6	Severe Cyclonic Storm: Wind speed 88-							
	Very Severe Cyclonic Storm: Wind spee							
Cyclone	Extremely Severe Cyclonic Storm: Win	d sneed 166-220 kmn	n (90) -119 knots)					