

National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Sunday, April 28, 2024 Time of Issue: 1630 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 east Afghanistan & neighbourhood upto middle tropospheric level and a cyclonic circulation lies over northwest Rajasthan & neighbourhood in lower tropospheric levels. Under their influence:
 - ✓ Farley widespread to Widespread light to moderate rainfall/snowfall accompanied with **thunderstorm, lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 28th April -30 April, 2024 with possibility of **hailstorm over Himachal Pradesh on 28th & 29th and Uttarakhand on 29th April, 2024.**
 - ✓ Isolated **Heavy rainfall** also likely over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad on 28th & 29th April and over Himachal Pradesh on 29th April, 2024.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Punjab, Haryana-Chandigarh during 28th & 29th April, 2024.
 - ✓ Isolated rainfall accompanied with **thunderstorm, lightning & gusty winds (35-45 kmph)** very likely over Uttar Pradesh on 28th & 29th April, 2024.
 - ✓ Isolated **Hailstorm** very likely over Punjab on 29th April, 2024.
 - ✓ **Duststorm/thundersquall** (50-60 kmph) very likely over south Haryana and West Uttar Pradesh on 28th April, 2024.
- A trough/wind discontinuity runs from eastern parts of Vidarbha to north Kerala in lower tropospheric levels. Another trough runs from northeast Jharkhand to south Chhattisgarh. Under their influence:
 - ✓ Isolated light rainfall accompanied with **thunderstorm**, **lightning & gusty winds (30-40 kmph)** very likely over West Madhya Pradesh on 28th, over East Madhya Pradesh, Vidarbha, Chhattisgarh on 28th & 29th and **with lightning** over Marathwada on 28th April, 2024.
 - ✓ Isolated to scattered light to moderate rainfall accompanied with isolated **thunderstorm & lightning** very likely over Kerala & Mahe during next 5 days; oner Lakshadweep on 28th-29th; and **gusty winds (30-40 kmph)** very likely over Coastal Andhra Pradesh & Yanam during 28th- 30th 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 Fairly widespread to fairly widespread rainfall over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 27th April-02nd May, 2024.
 - ✓ Isolated light to moderate rainfall accompanied with **thunderstorm & lightning & gusty winds (30-40 kmph)** very likely over Sikkim on 28th April-01st May and over Arunachal Pradesh during next 7 days.
 - ✓ **Isolated heavy to very heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya on 01st -02nd May and over Nagaland, Manipur, Mizoram & Tripura on 02nd May; with isolated heavy rainfall over Arunachal Pradesh & Assam & Meghalaya during 28th- 30th April; over Nagaland, Manipur, Mizoram & Tripura on 01st May 2024.
 - ✓ Isolated extremely heavy rainfall very likely over Assam & Meghalaya on 02nd May, 2024.

Maximum temperature observation and forecast for next 5 days:

Yesterday, maximum temperatures were in the range of 42-45°C over some places over Odisha, Gangetic West Bengal, Coastal Andhra Pradesh, Rayalaseema and Telangana; 40-42 over many parts of Bihar, Jharkhand, Chhattisgarh, Interior parts of Maharashtra, North Tamil Nadu, Marathwada, east Uttar Pradesh. These were above normal by 4-9°C over in many parts of Gangetic West Bengal and in some parts of north Odisha.

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, Odisha and Bihar, in some parts over Jharkhand during next 4 days till 1 May and then Heat Wave to severe heat wave conditions likely at isolated places over these areas on 2 May. Heat Wave to severe heat wave conditions likely at isolated places over Sub-Himalayan West Bengal on 28 Apil and Heat wave conditions in isolated pockets for subsequent 3 days till 1 May. Heat wave conditions in isolated pockets over Rayalaseema, Interior Karnataka, Tamil Nadu and Andhra Pradesh during next 5 days, Telangana during 29 April to 1 May; Kerala & Mahe on 28th April; Konkan on 28th and 29 April and East Uttar Pradesh during 28th-30th April.
- ♦ Hot and humid weather very likely to prevail over West Assam & Meghalaya, Tripura during 28th-29th; Kerala & Mahe, Coastal Karnataka during next 5-dayhs, Telangana on 28 April and 2nd May, Konkan & Goa during 30th April April-01st May 2024.







Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at many places over Himachal Pradesh; at a few places over Uttarakhand, Arunachal Pradesh, Assam & Meghalaya; at isolated places over Punjab, Haryana, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Himachal Pradesh: Rampur Bushar (dist Shimla) 4, Kumarsain (dist Shimla) 3, Kataula (dist Mandi) 3, Shimla AERO (dist Shimla) 3, Chamba AWS (dist Chamba) 2, Mashobra AWS (dist Shimla) 2, Narkanda AWS (dist Shimla) 2, Saloni (dist Chamba) 2; Haryana-Chandigarh-Delhi: Chandigarh Aws (dist Chandigarh) 1, Chandigarh (dist Chandigarh) 1, Naraingarh (dist Ambala) 1; West Uttar Pradesh: Shahjahanpur (t) (dist Shahjahanpur) 1, Shahjahapur Obsy (dist Shahjahanpur) 1; East Madhya Pradesh: Junnardeo (dist Chindwara) 1; West Madhya Pradesh: Multai (dist Betul) 1; Kerala & Mahe: Enadimangalam AWS (dist Pathanamthitta) 1.
- ❖ Yesterday, **Heat wave conditions** reported at some/many places with **severe heat wave conditions** at isolated places over Odisha and Gangetic West Bengal. **Heat Wave conditions** reported at isolated places over Kerala. **Heat wave conditions have been prevailing over Odisha since 15th and Gangetic West Bengal since 17th April.**
- ❖ Minimum Temperature Departures (as on 28-04-2024): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at a few places over Bihar; at isolated places over West Bengal & Sikkim and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka; at many places over Odisha, Marathwada and Assam & Meghalaya; at a few places over Jharkhand, Telangana and Nagaland, Manipur, Mizoram & Tripura; at isolated places over East Uttar Pradesh, Arunachal Pradesh, Gujarat Region, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. These are below normal (-1.6°C to -3.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.6°C is reported at Muzaffarnagar (West Uttar Pradesh) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 27-04-2024): Maximum temperatures were markedly above normal (5.1°C or more) at many places over Gangetic West Bengal; at isolated places over Bihar; appreciably above normal (3.1°C to 5.0°C) at a few places over Odisha, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya; and at isolated places over Arunachal Pradesh, South Interior Karnataka, Rayalaseema and Kerala & Mahe; above normal (1.6°C to 3.0°C) at many places over North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam; at a few places over Telangana; at isolated places over East Uttar Pradesh, Chhattisgarh, Konkan & Goa, Coastal Karnataka, Gujarat Region. These were markedly below normal (-5.1°C or less) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Himachal Pradesh, Punjab and at isolated places over north Rajasthan, Uttarakhand; below normal (-1.6°C to -3.0°C) at a few places over West Madhya Pradesh; at isolated places over East Madhya Pradesh, Vidarbha, Haryana-Chandigarh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.8°C was reported at Kalaikunda (Gangetic West Bengal) over the country.





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Meteorological Analysis (Based on 1430 hours IST)

- ❖ The Western Disturbance as a cyclonic circulation over east Afghanistan & neighbourhood 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. 65°E to the north of lat. 32°N persists.
- ❖ The cyclonic circulation over northwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- The cyclonic circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- The cyclonic circulation over north Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The trough from northeast Jharkhand to south Chhattisgarh at 0.9 km above mean sea level persists.
- The trough/wind discontinuity from eastern parts of Vidarbha to north Kerala across Madhya Maharashtra, interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Gulf of Mannar & neighbourhood at 0.9 km above mean sea level persists.
- The cyclonic circulation over central parts of south Arabian Sea extending upto 1.5 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 04th May, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 05th May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ No large change during next 24 hours, fall in maximum temperatures by 2-3°C very likely over northwest India during subsequent 2-3 days.
- ❖ No large change during next 24 hours and then gradual increase by 2-3°C maximum temperatures very likely over Central India during subsequent 3 days.
- * Rise in maximum temperatures by about 1-2 °C very likely over East India during next 2 days and no significant change thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over west India during next 2 days and no significant change thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over Tamil Nadu during next 3-4 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 05th-07th 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

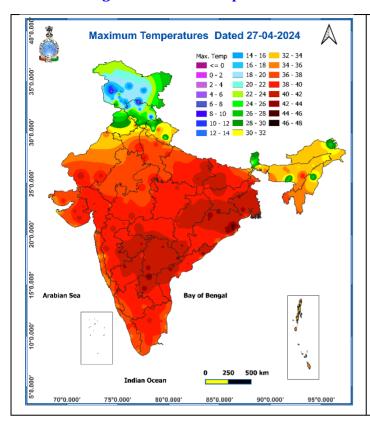
7 Days Rainfall Forecast								
C No	Cub di ti	28-Apr	29-Apr	30-Apr	01-May	02-May	03-May	04-May
S. No.	Subdivision	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	FWS	FWS
3	ASSAM & MEGHALAYA	SCT	FWS	WS	WS	WS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	FWS	FWS	WS	WS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	SCT	SCT	DRY	DRY
6	GANGETIC WEST BENGAL	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	SCT	ISOL	ISOL	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	DRY	DRY	DRY	DRY	ISOL
14	PUNJAB	SCT	SCT	ISOL	DRY	DRY	DRY	ISOL
15	HIMACHAL PRADESH	WS	WS	SCT	ISOL	DRY	DRY	ISOL
16	JAMMU & KASHMIR AND LADAKH	WS	WS	WS	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
29	TELANGANA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY						
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
32	COASTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA & MAHE	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
36	LAKSHADWEEP	SCT	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

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures



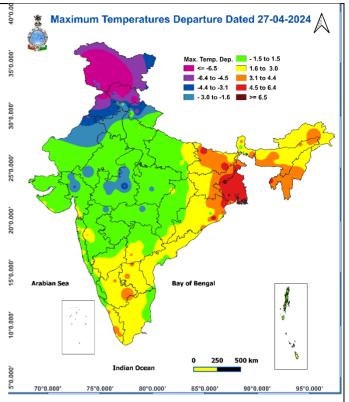
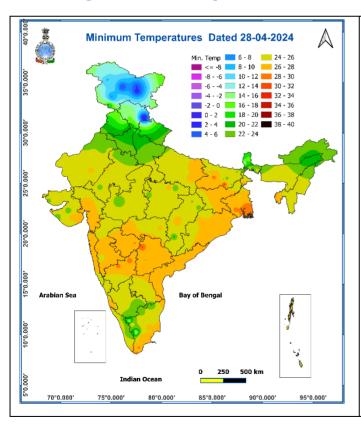
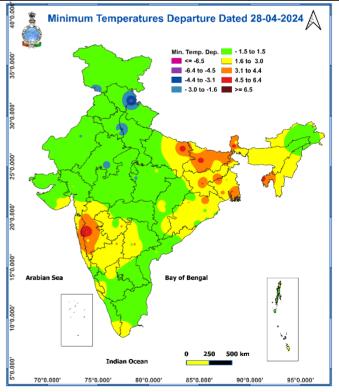


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures







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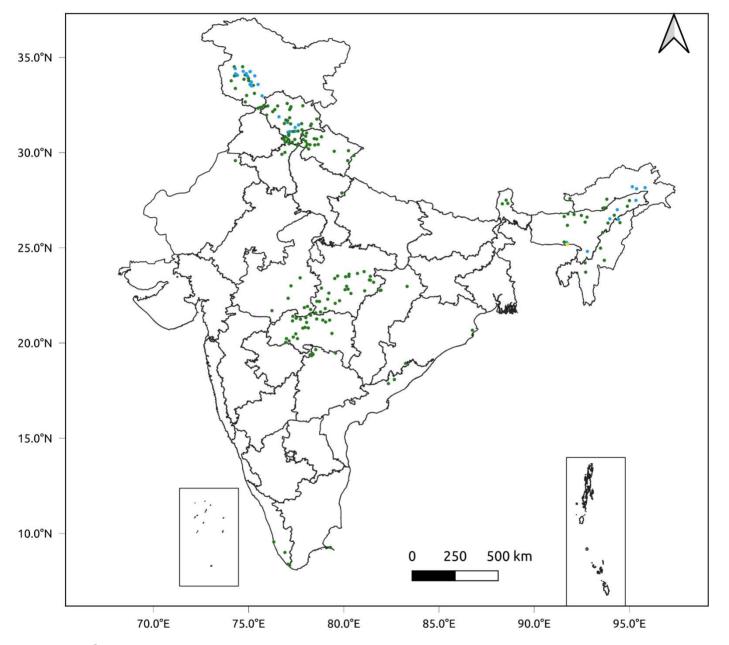
Maxii	num tei	mperatures reported ((≥40°C)	at 1730 hrs IST of t	oday, t	the 27th April 2024	
MORADABAD	40.2	BERHAMPORE	41.2	RAIPUR-MANA	41.2	NIZAMABAD	43
ALWAR	40.1	AMBIKAPUR	40	DURG	41.6	MEDAK	42
DEOMALI	41.4	KALAIKUNDA	45.8	DHENKANAL	42.1	RAMGUNDAM	42.4
FATEHGARH	41.4	PURULIA	42.7	SAMBALPUR	42.2	HANAMKONDA	41
LAKHIMPUR KHERI	40	BANKURA	43.2	JHARSUGUDA	43.6	SOLAPUR	42
HARDOI	40.2	SRI NIKETAN	42	KEONJHARGARH	41.5	GULBARGA	42.9
BAHRAICH	41	KRISHNANAGAR	42	BALASORE	41.7	HYDERABAD	40.9
VALMIKI NAGAR	40.4	ASANSOL	42.5	CONTAI	41	NALGONDA	41.5
SULTANPUR	40.2	BAGATI	40.5	NASHIK	40.1	KOTHAGUDEM (BHADRACHALAM)	42.6
GORAKHPUR	41	RAJKOT (A)	40.9	MALEGAON	42	SANGLI	40.5
BALLIA (MIRDHA)	41	SURENDRANAGAR	40.3	AKOLA	41.4	MAHBUBNAGAR	43.5
JHANSI	40.3	NARSINGHPUR	41	WASHIM	43	RENTACHINTALA	43.2
ORAI	40.2	PENDRA ROAD	41	AMRAOTI	40	VIJAYAWADA-GANNAVARAM	41.2
FATEHPUR	40.2	BILASPUR	41.4	WARDHA	41.4	NANDIGAMA	41.8
PRAYAGRAJ	42.2	ROURKELA	42.7	YEOTMAL	41.7	NANDYAL	44.9
VARANASI (BABATPUR) (A)	42.2	JAMSHEDPUR (A)	43.2	BRAHMPURI	42.7	KURNOOL	44.5
VARANASI	41.2	MIDNAPORE	43.5	GADCHIROLI	42	ANANTAPUR	43.7
CHAPRA	40.6	KOLKATA-Howrah-ULUBERIA	41.5	RAJNANDGAON	41.5	CUDDAPAH	43.4
PATNA-Airport	41.4	KOLKATA-Alipur	41.1	BHUBANESHWAR	44.6	NELLORE	41.1
BHAGALPUR	40.1	KOLKATA (DUM DUM) (A)	41	CHANDBALI	42.4	AROGYAVARAM	40
MALDA	40.6	DIAMOND HARBOUR	41	BEED (BIR)	41.2	TIRUPATHI	42.9
TIKAMGARH	40.8	CANNING	42	PARBHANI	41.5	TIRUTTANI	40.2
KHAJURAHO	40.2	KOLKATA-Salt Lake	41.8	NANDED	42.4	DHARMAPURI	41
SATNA	40.5	KESHOD (A)	40.4	ADILABAD	42.3	TIRUPPATTUR	41.8
SIDHI	42	AMRELI	41.2	CHANDRAPUR (CHANDA)	42.8	VELLORE	40.1
DALTONGANJ	42.8	KHARGONE	41.2	BARAMATI	40.1	SALEM	41.9
DEHRI	41.2	JALGAON	41.5	JEUR	43	PALAKKAD (PALGHAT)	41.8
GAYA	42	KHANDWA	41.5	UDGIR	40.6	KARUR PARAMATHI	40.5
	40-40.9°C						
	41-41.9°C	Highest maximum tem	peratu	re of 45.8°C has been	observ	ed over Kalaikunda (Gangetic	Wes
	42-42.9°C			Bengal).			
	43-46°C			= = -8/.			







24 Hr cumulative rainfall recorded over different stations during 0830 IST of 27-4-2024 to 0830 IST of 28-4-2024

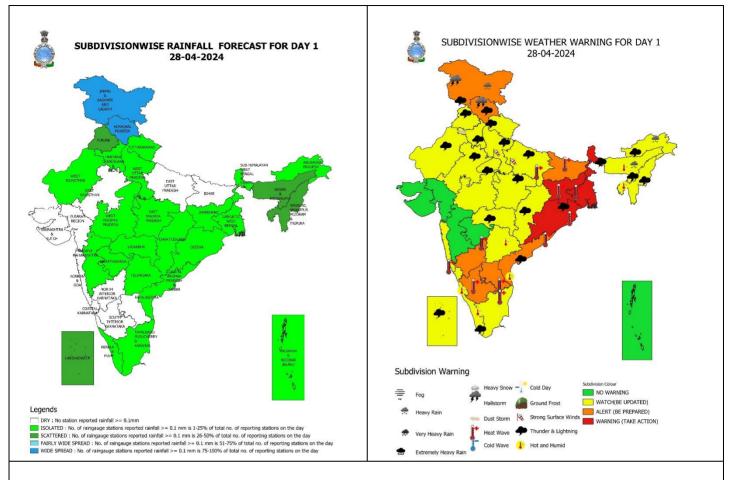


Legends

- 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)





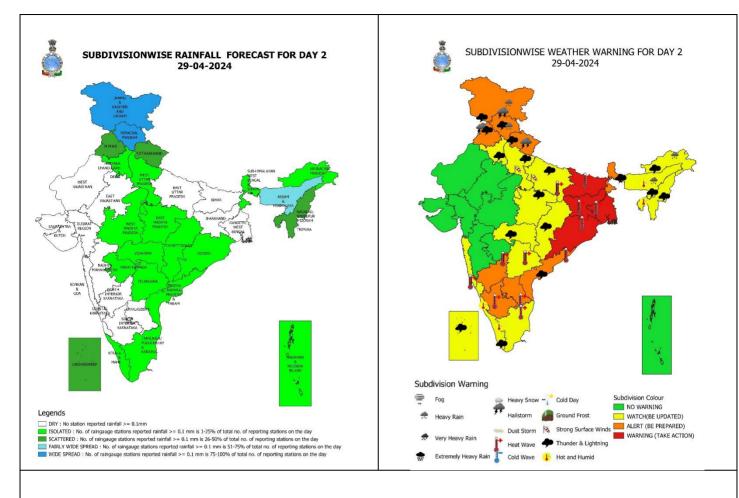


28 April (Day 1):

- ❖ Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, East Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning, gusty winds (speed reaching 35-45 kmph) & at isolated places over Uttar Pradesh, with lightning, duststorm & gusty winds (speed reaching 30-40 kmph) at isolated places over Haryana-Chandigarh-Delhi and West Uttar Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Rajasthan, West Madhya Pradesh, Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam with lightning at isolated places over Arunachal Pradesh, Kerala & Mahe Sub-Himalayan West Bengal & Sikkim, Lakshadweep.
- **\Lambda Heavy rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and Assam & Meghalaya.
- ❖ Hot and humid weather very likely to prevail over west Assam, Meghalaya, Tripura, Kerala & Mahe and Coastal Karnataka.
- *Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal, Odisha and Bihar; at isolated places over Jharkhand, Sub-Himalayan West Bengal; heat wave conditions in isolated pockets over East Uttar Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka.





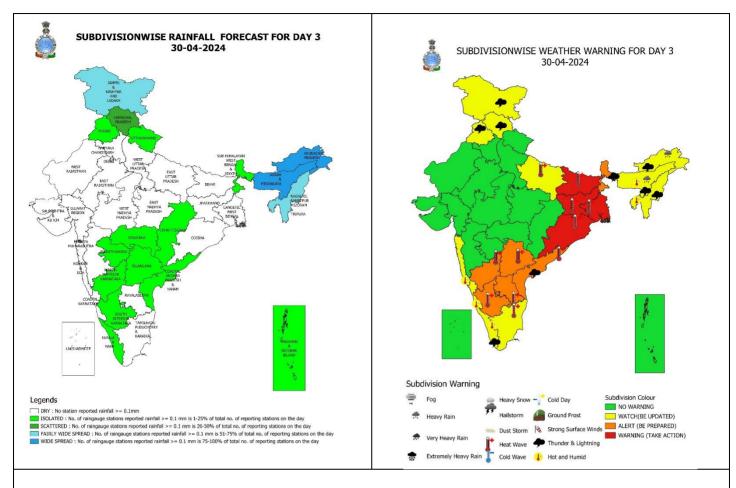


29 April (Day 2):

- ❖ Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh, Uttarakhand and Punjab; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning, gusty winds (speed reaching 35-45 kmph) & at isolated places over Uttar Pradesh, with lightning, duststorm & gusty winds (speed reaching 30-40 kmph) at isolated places over Haryana-Chandigarh-Delhi; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam with lightning at isolated places over Arunachal Pradesh, Kerala & Mahe, Sub-Himalayan West Bengal & Sikkim and Lakshadweep.
- **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 and Coastal Karnataka.
- ❖ Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal, Bihar; at some places over Jharkhand, Odisha; heat wave conditions in isolated pockets over East Uttar Pradesh, Sub-Himalayan West Bengal, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka.





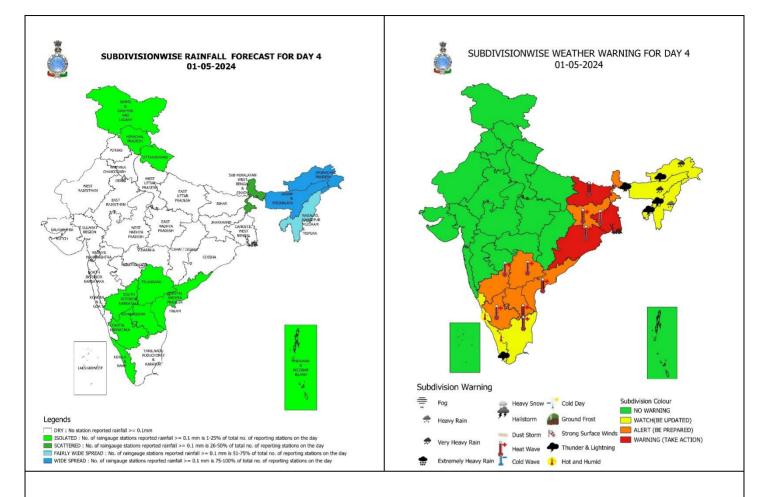


30 April (Day 3):

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





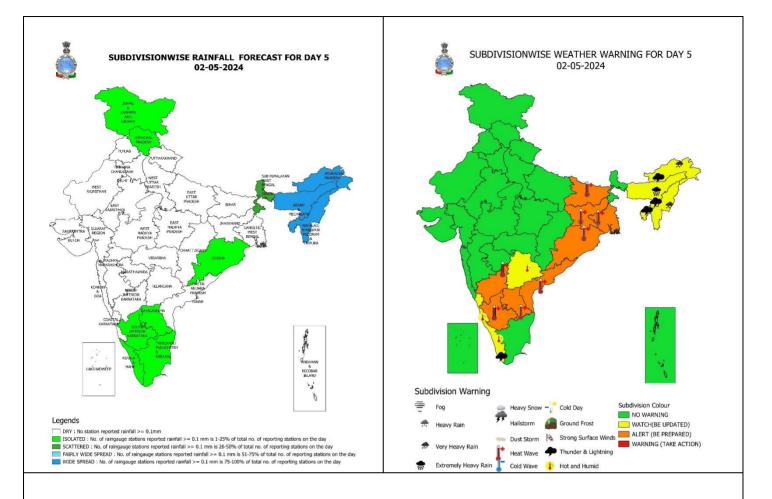


01 May (Day 4):

- ❖ Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Arunachal Pradesh, 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 Kerala & Mahe.
- Heavy to very heavy rainfall likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; Heavy rainfall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura.
- **\diamoldot 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 Odisha, Bihar and Jharkhand; heat wave conditions in isolated pockets over Sub-Himalayan West Bengal, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka.







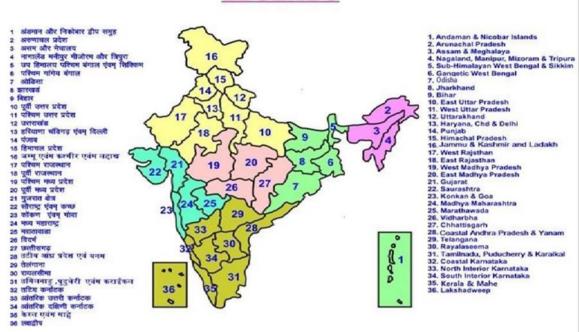
02 May (Day 5):

- ❖ Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya with lightning at isolated places over Kerala & Mahe.
- * Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Assam & Meghalaya and Heavy to very heavy rainfall at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ Hot and humid weather likely to prevail over Kerala & Mahe, Telangana and Coastal Karnataka.
- **Heat wave conditions** likely to prevail at isolated places over Gangetic West Bengal, Odisha, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.









SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

	WARNING (TAKE ACTION)			
	ALERT (BE PREPARED)			
	WATCH (BE UPDATED)			
	NO WARNING (NO ACTION)			

Probabilistic Forecast

Terms	Probability of Occurrence (%)		
Unlikely	< 25		
Likely	25 - 50		
Very Likely	50 - 75		
Most Likely	> 75		





LEGENDS Probabilistic Forecast WARNING WARNING (TAKE ACTION) Probability of Occurrence (%) **Terms** < 25 ALERT (BE PREPARED) Likely WATCH (BE UPDATED) Very Likely Most Likely Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* Rain/ Snow Extremely Heavy: > 204.4 mm/cm When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal 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 (b). Based on Actual maximum temperature **Heat Wave** Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C (c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C When maximum temperature remains 40°C Warm Night Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C Severe Warm Night: When minimum temperature departure >6.4 °C. When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure 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 (b) Based on actual Minimum Temperature (for Plains only) Cold Wave Cold Wave : When Minimum Temperature is ≤ 4.0 °C Severe Cold Wave: When Minimum Temperature is < 2.0 °C (c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. Cold Day Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres 0 Dense Fog: when the visibility between 50- 200 metres Fog Very Dense Fog: when the visibility < 50 metres 44 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) Thunderstorm An ensemble of particles of dust or sand energetically lifted to great heights by a strong and **Dust/Sand** turbulent wind. Storm Ice deposits on ground Air temperature ≤4°C (over Plains) Frost A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph 4 Severe: Wind speed 62-87 kmph Squall Very Severe: Wind speed >87 kmph Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre Sea State Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) 9 Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Cyclone Super Cyclone Strom: Wind speed >220 kmph (>119 knots)