



Friday, August 11, 2023  
Time of Issue: 0800 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Significant Weather features:

- ❖ A cyclonic circulation lies over northeast Uttar Pradesh and adjoining northwest Bihar in lower tropospheric levels.
- ❖ The Monsoon Trough lies north of its normal position. It is likely to continue to remain north of its normal position or along the foothills of Himalayas during next 4-5 days.
- ❖ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 64°E to the north of 30°N.

#### Weather Forecast and Warnings:

**Northwest India:** Light/moderate scattered to fairly widespread rainfall with isolated **heavy to very heavy rainfall** activity very likely over southern parts of Uttarakhand, northern parts of East Uttar Pradesh during 11<sup>th</sup>-15<sup>th</sup> August and isolated **heavy rainfall** likely over Himachal Pradesh during 11<sup>th</sup>-15<sup>th</sup>; Punjab, Haryana on 13<sup>th</sup> August, 2023.

**Isolated extremely heavy rainfall also likely over Uttarakhand during 11<sup>th</sup>-13<sup>th</sup> August.**

**Subdued rainfall activity likely over rest parts of northwest India during next 6 days.**

**East India:** Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** activity very likely over northern parts of Bihar, Sub-Himalayan West Bengal & Sikkim during 11<sup>th</sup>-15<sup>th</sup> August and Gangetic West Bengal on 12<sup>th</sup> August.

**Isolated very heavy rainfall likely over northern parts of Bihar during 11<sup>th</sup>-13<sup>th</sup> and over Sikkim on 11<sup>th</sup> & 12<sup>th</sup> August.**

**Northeast India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy to very heavy rainfall** activity very likely over Arunachal Pradesh, Assam, Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 3 days.

**Central, West & South India:** Subdued rainfall activity likely over these regions during next 7 days.



## Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Coastal Andhra Pradesh & Yanam, Uttarakhand; **at a few places** over Madhya Maharashtra, East Uttar Pradesh, Assam & Meghalaya, Punjab and **at isolated places** over Konkan & Goa, Bihar, Vidarbha, Tamil Nadu, Puducherry & Karaikal, Gujarat Region, West Bengal & Sikkim, Rayalaseema, North Interior Karnataka, Jharkhand.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **East Uttar Pradesh:** Varanasi-5; **Coastal Andhra Pradesh & Yanam:** Bapatla-5, Narsapur-1; **Tamil Nadu, Puducherry & Karaikal:** Namgabakkam-4; **Madhya Maharashtra:** Mahabaleshwar-2.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, East Uttar Pradesh, Sub-Himalaya West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Minimum Temperature Departures (as on 10-08-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Punjab, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; at a few places over Himachal Pradesh, Odisha, Telangana and Marathwada and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at a few places over Andaman & Nicobar Islands; at isolated places over Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 20.6°C** was reported at **Malanjkhanda (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 10-08-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Coastal Andhra Pradesh & Yanam, Chhattisgarh; at a few places over Vidarbha, Marathwada, Kerala & Mahe, Odisha, Madhya Maharashtra, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Telangana; **above normal (1.6°C to 3.0°C)** at most places over Interior Karnataka; at many places over Madhya Pradesh, Konkan & Goa; at a few places over East Rajasthan, Gujarat Region, Rayalaseema, Gangetic West Bengal; at isolated places over Tamil Nadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Bihar; **below normal (-1.6°C to -3.0°C)** at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 38.5°C** was reported at **Nalgonda (Telangana)**.



### Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **cyclonic circulation** over northeast Uttar Pradesh and adjoining northwest Bihar extending upto 3.1 km above mean sea level persists.
- ❖ The **Monsoon Trough** at mean sea level now passes through Amritsar, Najibabad, Kanpur, Darbhanga, Jalpaiguri and thence southeastwards towards Mizoram.
- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 64°E to the north of Lat. 30°N persists.
- ❖ The **cyclonic circulation** over West Rajasthan at 1.5 km above mean sea level persists.

### Weather Forecast for next 5 days (Upto 0830 hours IST of 15<sup>th</sup> August, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ Isolated light to moderate thunderstorm likely over northwest India.
- ❖ No significant change in maximum temperatures likely over most parts of country during next 5 days.

### Weather Outlook for subsequent 2 days

- ❖ Fairly widespread to widespread light/moderate rainfall likely over along the foothills of the Himalayas, parts of east & northeast India, along the west coasts and islands.
- ❖ Subdued rainfall activity with isolated to scattered rainfall likely over rest parts of the country.



Table-1

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

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

Fig. 1: Maximum Temperatures Dated 10.08.2023

Fig. 2: Departure of Maximum Temp. Dated 10.08.2023

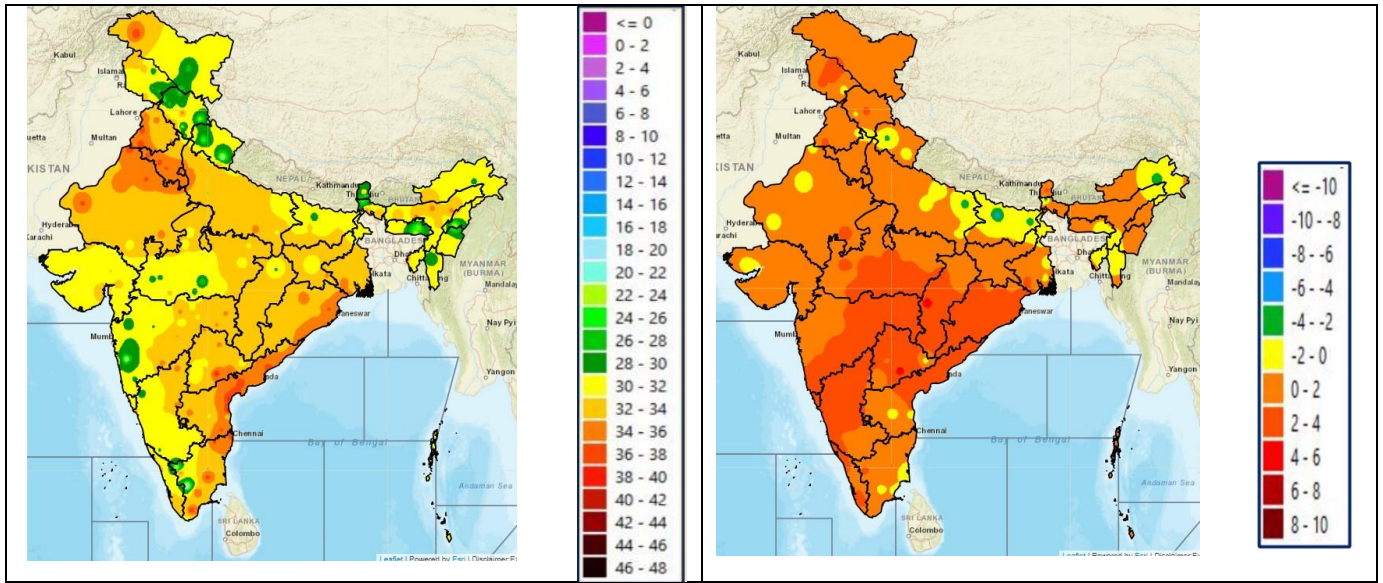


Fig. 3: Minimum Temperatures Dated 10.08.2023

Fig. 4: Departure of Minimum Temp. Dated 10.08.2023

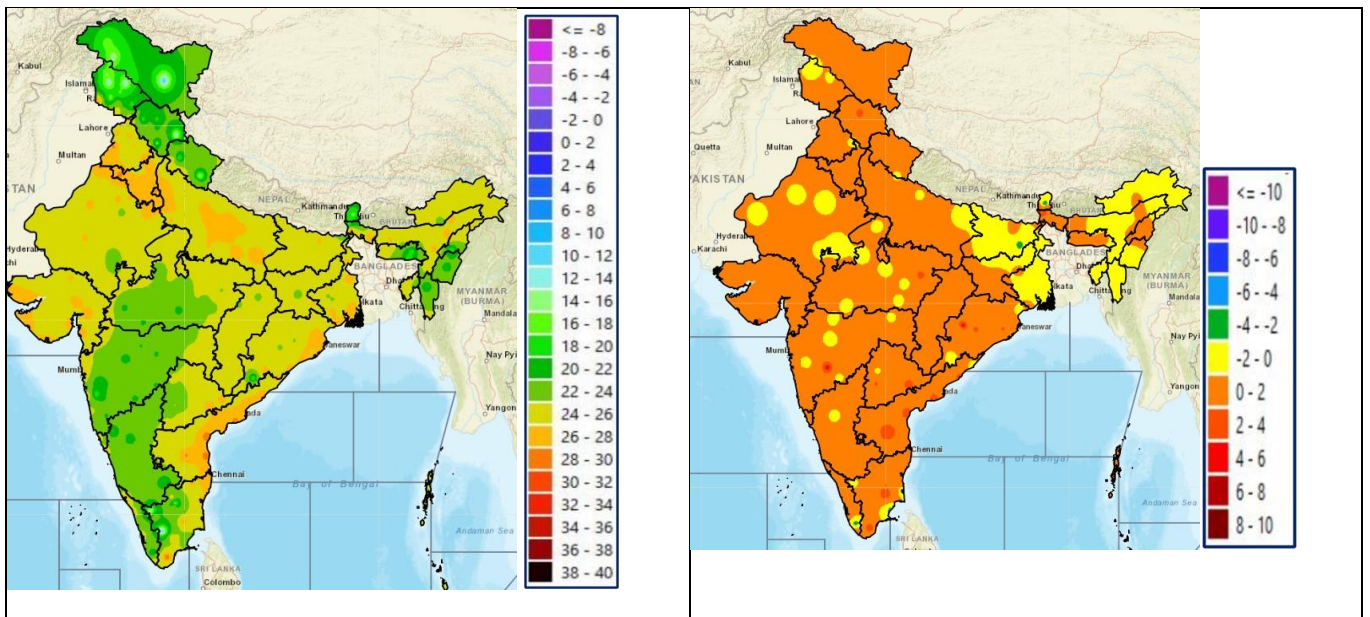
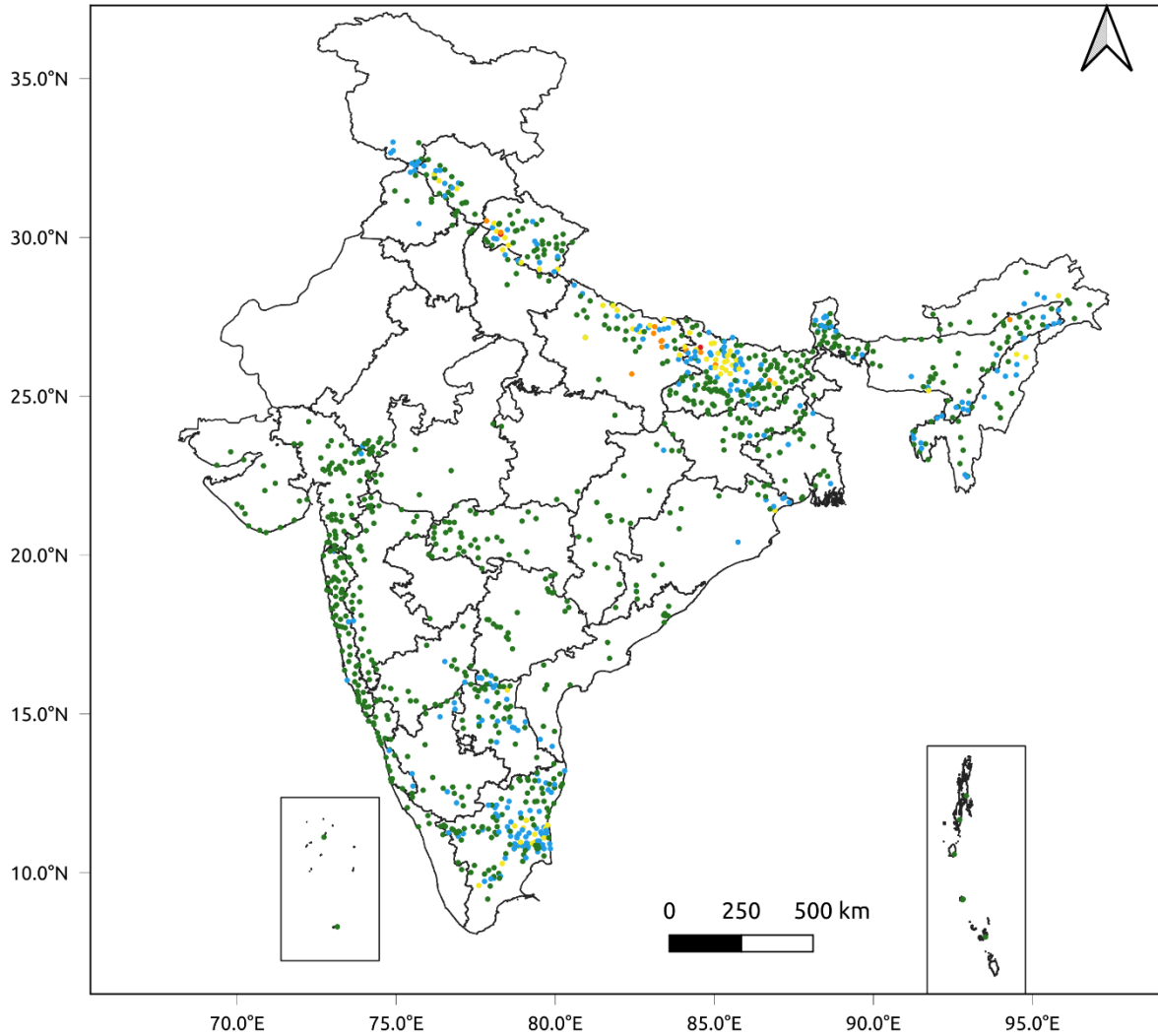


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

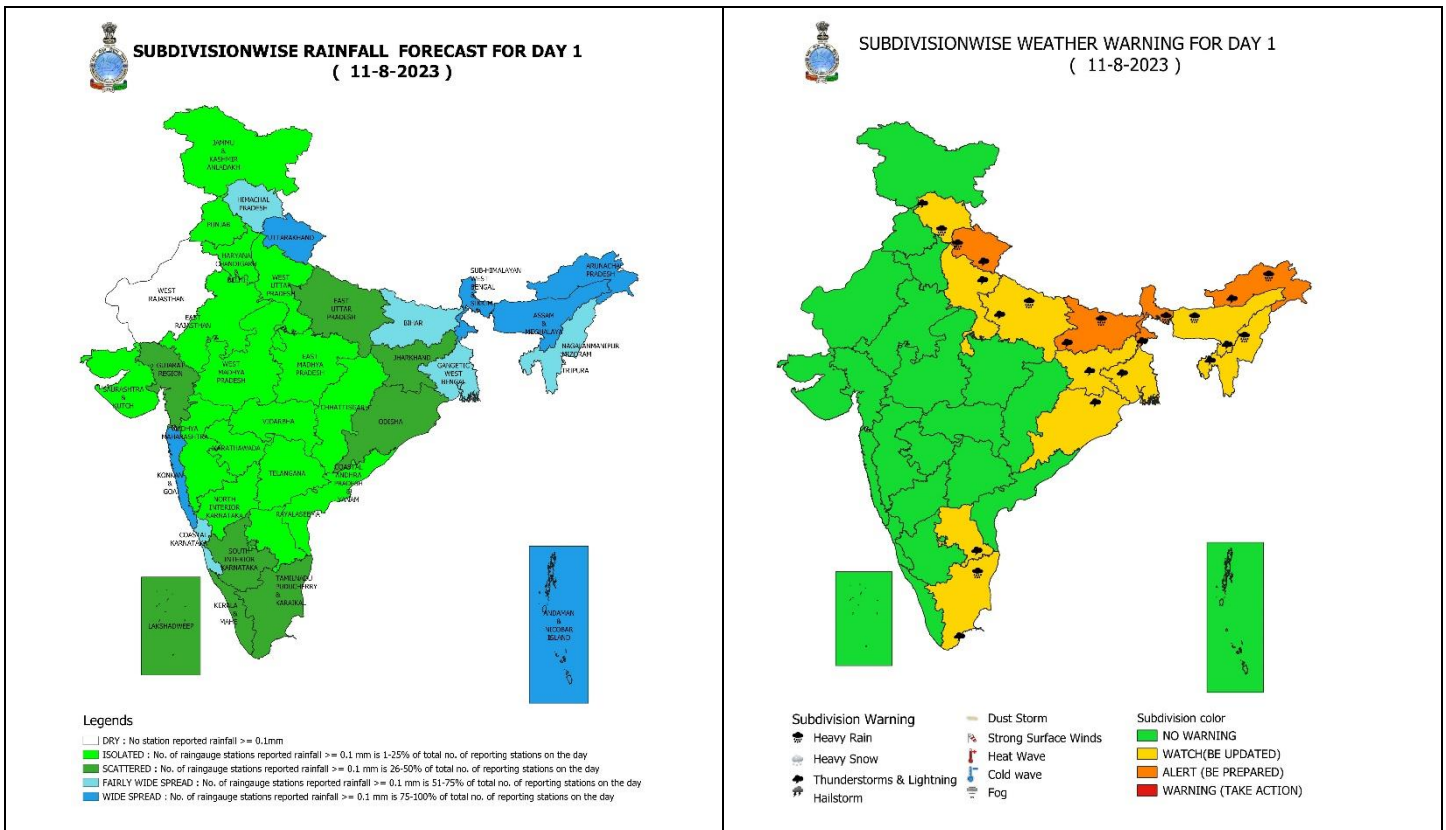


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 9-8-2023 to 0830 IST of 10-8-2023



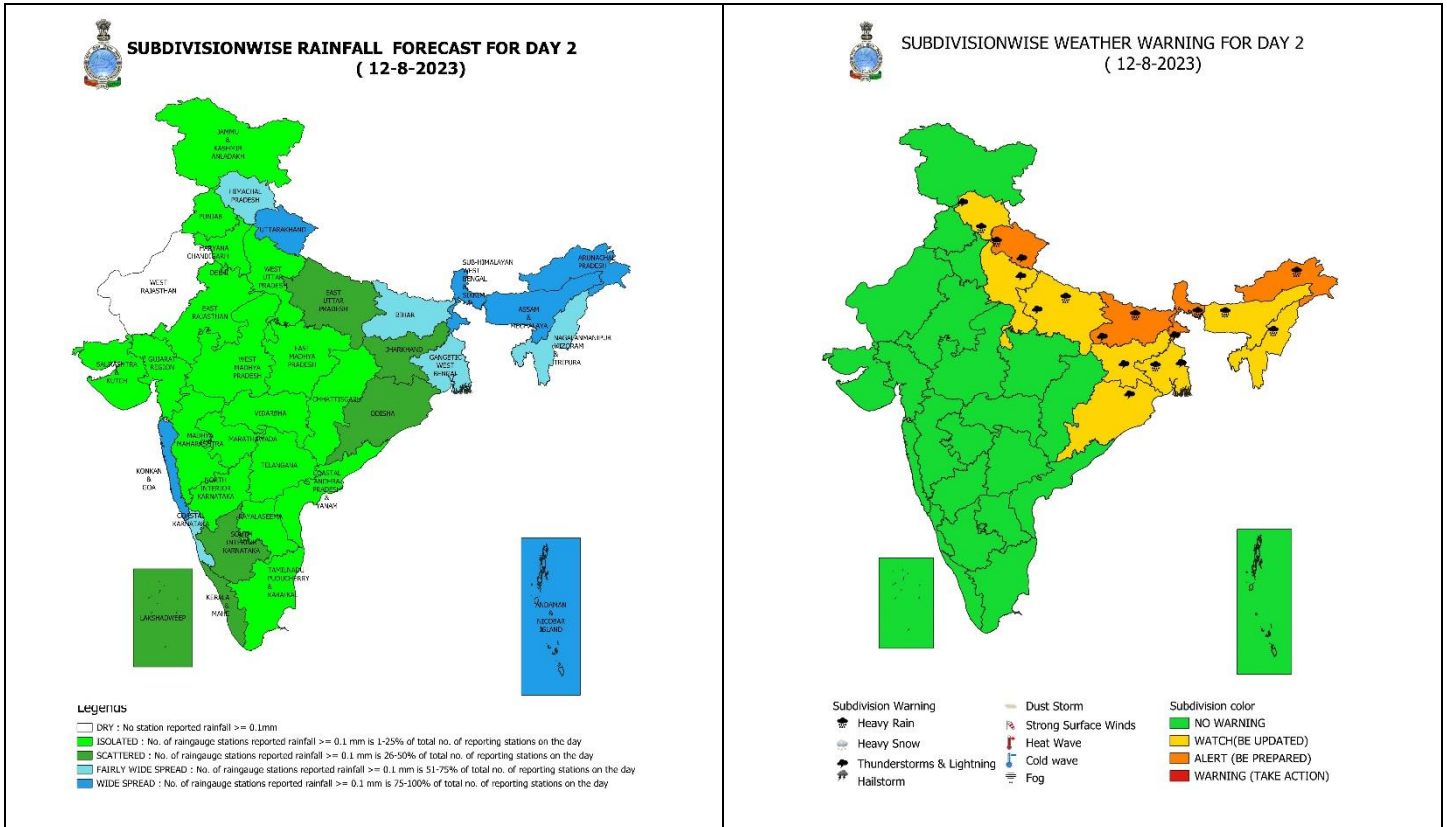
## Legends

- 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 ( $\geq 204.5$  mm)



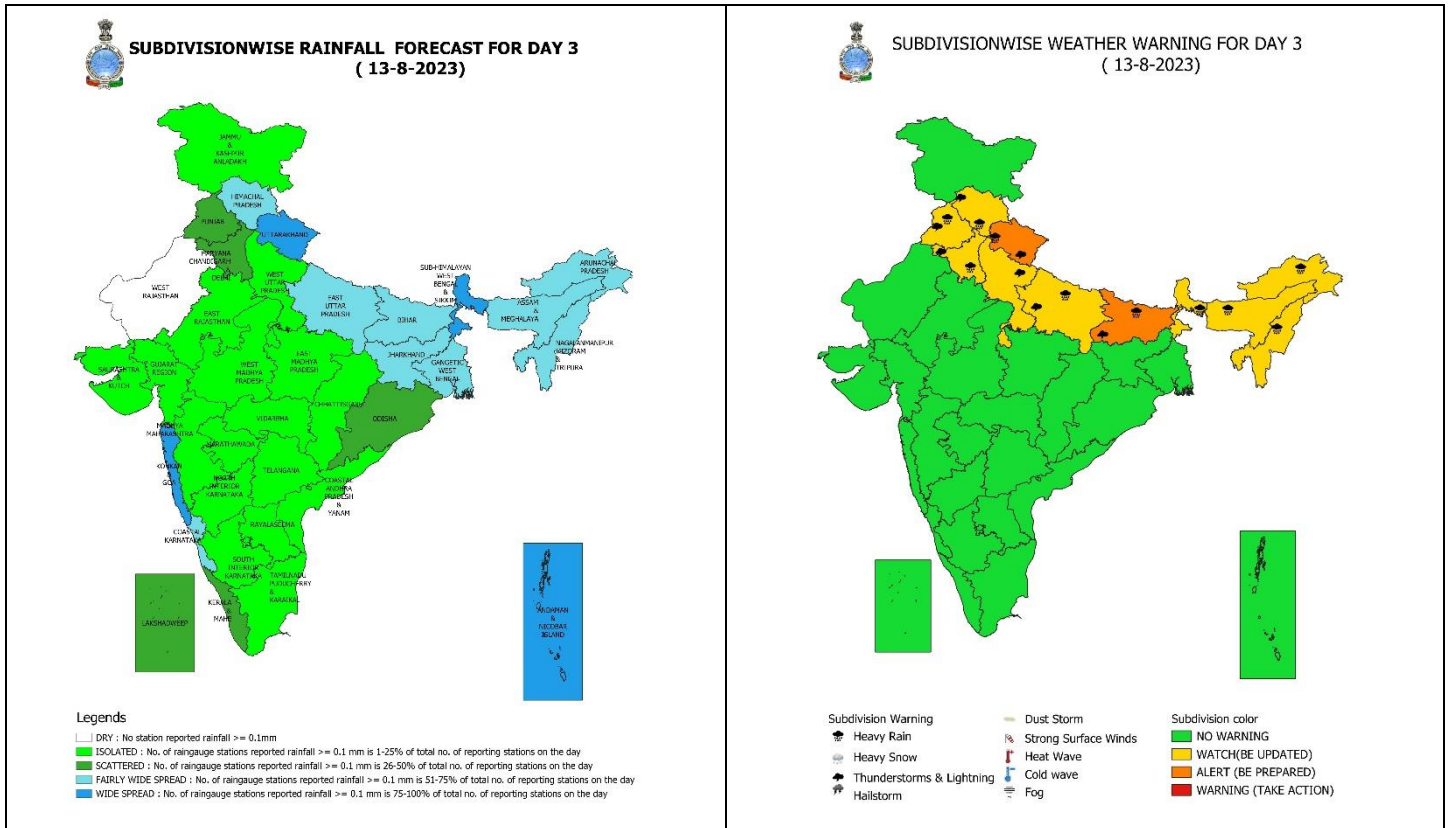
### 11 August (Day 1): -

- ❖ **Heavy to very heavy rainfall with extremely falls** very likely at isolated places over Uttarakhand; **heavy to very heavy rainfall** at isolated places over Bihar, Sub-Himalaya West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, East Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest & adjoining Westcentral Arabian Sea. **Fishermen are advised not to venture into these areas.**
- ❖ **24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 12-08-2023:**
  - **Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of Uttarakhand Met Sub-divisions during next 24 hours.



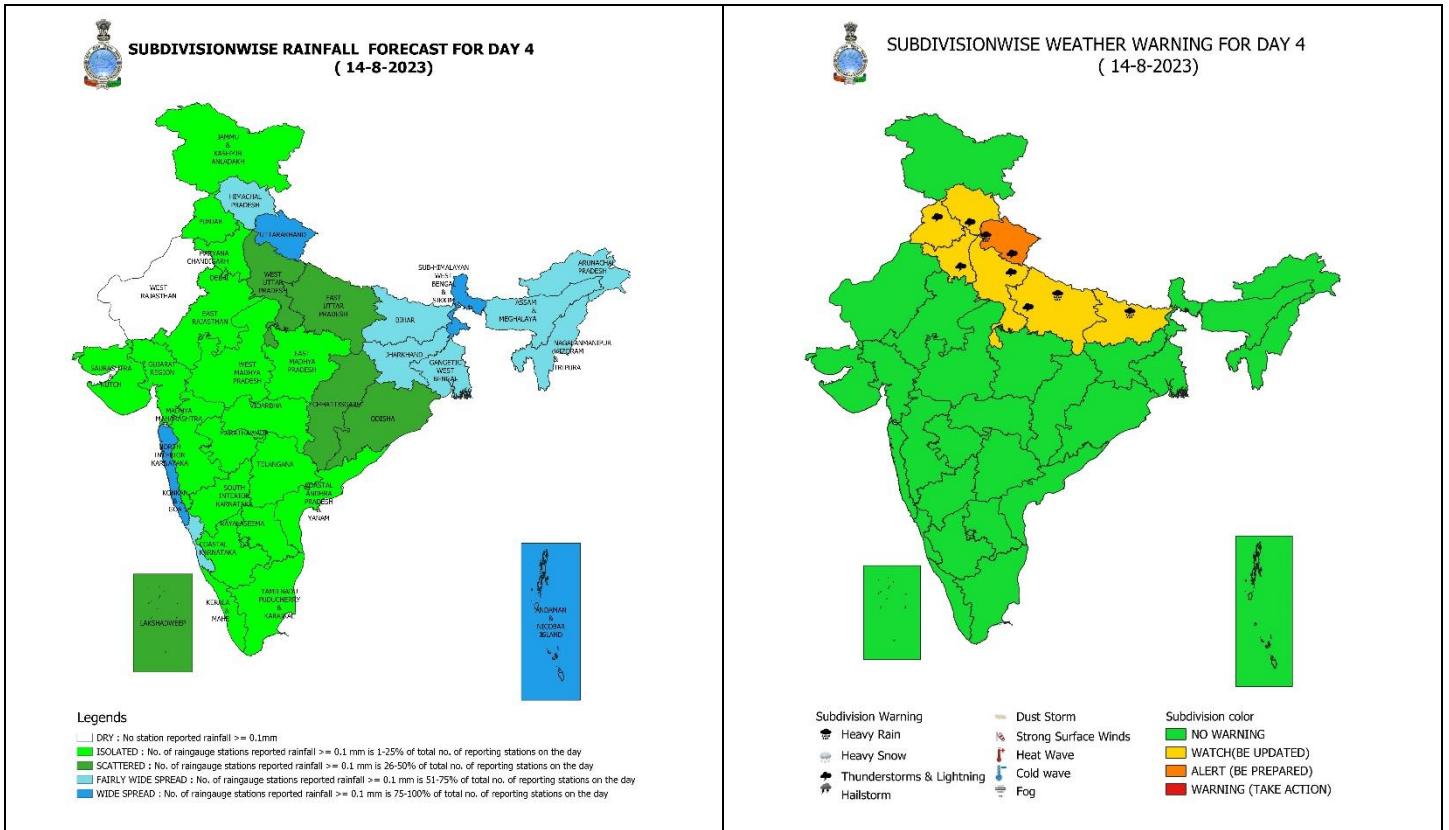
## 12 August (Day 2): -

- ❖ **Heavy to very heavy rainfall with extremely falls very likely at isolated places over Uttarakhand; Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya; Heavy rainfall at isolated places over Himachal Pradesh, East Uttar Pradesh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura.**
- ❖ **Thunderstorm with lightning winds (speed 30-40 kmph gusting to 50 kmph) likely at isolated places over Andaman & Nicobar Islands; Thunderstorm with lightning at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Bengal & Sikkim, Bihar, Odisha and Jharkhand.**
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.**



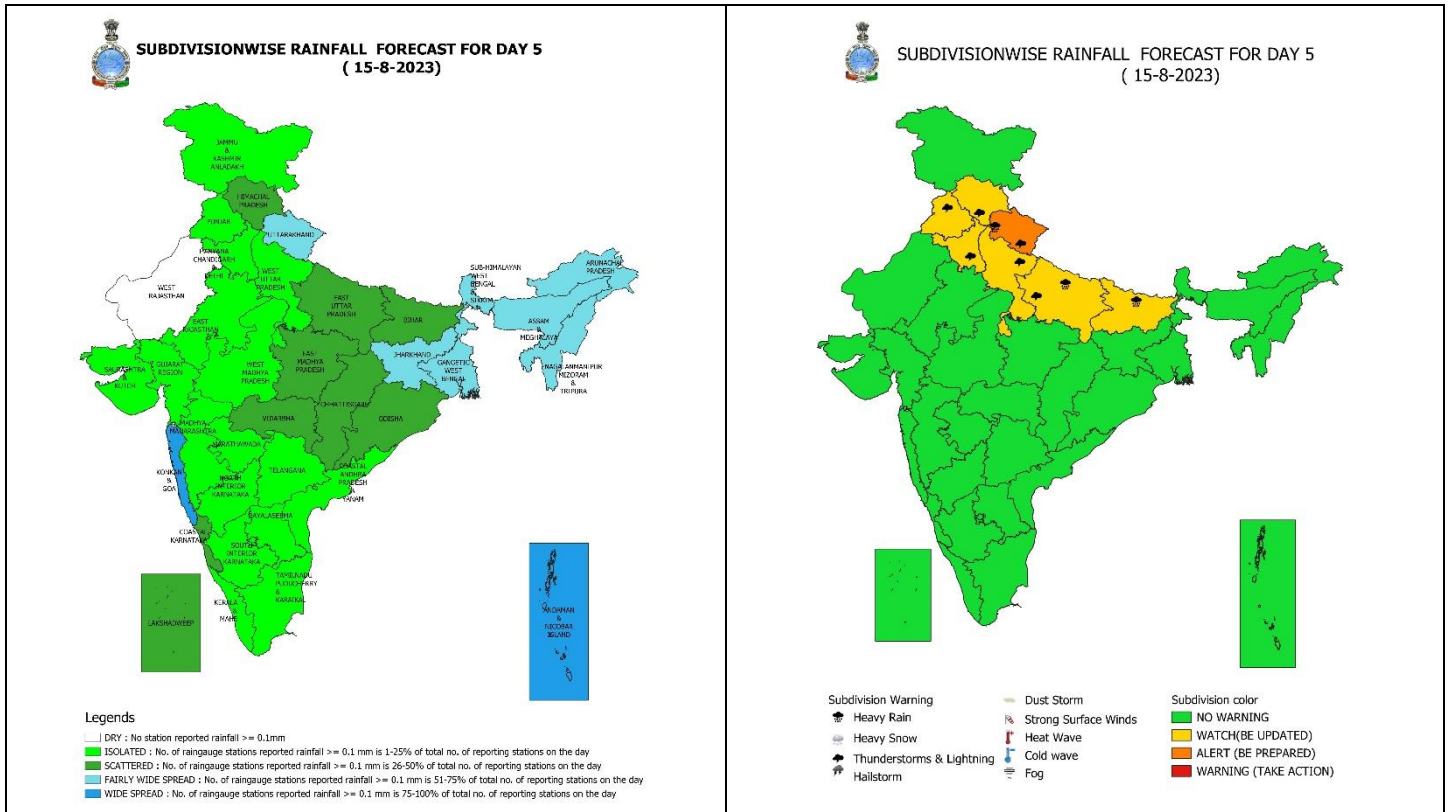
### 13 August (Day 3): -

- ❖ **Heavy to very heavy rainfall with extremely falls** likely at isolated places over Uttarakhand; **Heavy to very heavy rainfall** at isolated places over Bihar and **Heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Uttar Pradesh, Sub-Himalaya West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning winds (speed 30-40 kmph gusting to 50 kmph)** likely at isolated places over Andaman & Nicobar Islands; **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Bihar.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Central & adjoining North Arabian Sea. **Fishermen are advised not to venture into these areas.**



### 14 August (Day 4): -

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand and **Heavy rainfall** at isolated places over East Uttar Pradesh and Bihar.
- ❖ **Thunderstorm with lightning winds (speed 30-40 kmph gusting to 50 kmph)** likely at isolated places over Andaman & Nicobar Islands; **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura and West Uttar Pradesh.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Central & adjoining North Arabian Sea. **Fishermen are advised not to venture into these areas.**



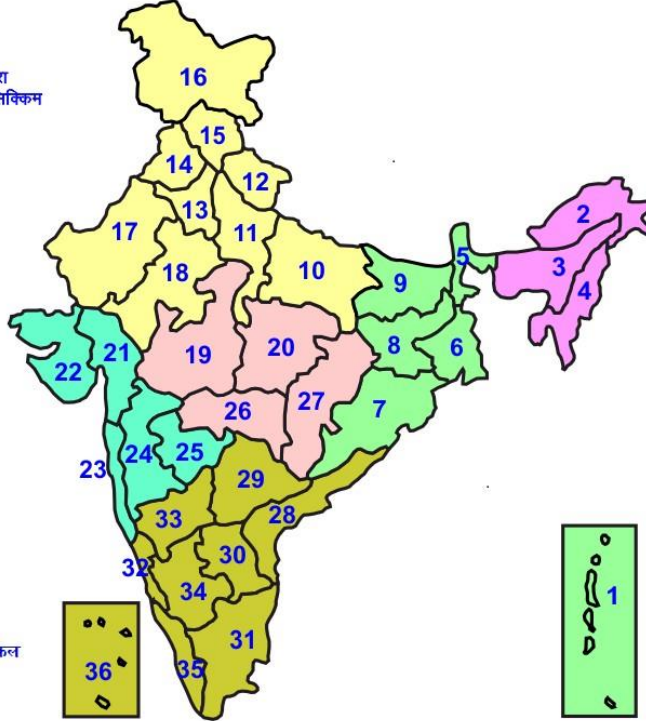
**15 August (Day 5): -**

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand and **Heavy rainfall** at isolated places over East Uttar Pradesh and Bihar.
- ❖ **Thunderstorm with lightning winds (speed 30-40 kmph gusting to 50 kmph)** likely at isolated places over Andaman & Nicobar Islands; **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura and West Uttar Pradesh.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Central & adjoining North Arabian Sea. **Fishermen are advised not to venture into these areas.**



## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसेमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माले
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## 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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

\* Red color warning does not mean "Red Alert" Red color 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

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## LEGENDS

### 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



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



Cold Wave

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed >87 kmph



Sea State

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

Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed >220 kmph (>119 knots)

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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