



Tuesday, August 08, 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 north Bangladesh in lower tropospheric levels.
- ❖ The Monsoon Trough lies north of its normal position. It is likely to be 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. 70°E to the north of Lat. 30°N.

#### **Weather Forecast and Warnings:**

**Northwest India:** Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** activity very likely over Uttarakhand during 08<sup>th</sup>-10<sup>th</sup>; Uttar Pradesh on 08<sup>th</sup> & 09<sup>th</sup> August, 2023. **Isolated very heavy rainfall also likely over East Uttar Pradesh on 08<sup>th</sup> & 09<sup>th</sup> and over Uttarakhand & West Uttar Pradesh on 09<sup>th</sup> August.**

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

**East India:** Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** activity very likely over West Bengal & Sikkim on 08<sup>th</sup> and Bihar & Jharkhand on 08<sup>th</sup> & 09<sup>th</sup> August. **Isolated very heavy rainfall** is also likely over Bihar on 08<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 24 days and isolated heavy rainfall for subsequent 4 days.

**Central, West & South India:** **Subdued rainfall activity likely over these regions during next 6 days.**



## Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Bihar, Jharkhand, Gangetic West Bengal and Chhattisgarh; **at many places** over Sub-Himalaya West Bengal & Sikkim and Coastal Karnataka; **at a few places** over Himachal Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Lakshadweep and **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Gujarat state, Vidarbha, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Tripura:** Agartala 5; **Meghalaya:** Cherrapunji-3; **Himachal Pradesh:** Dharmshala 3; **Gangetic West Bengal:** Shanti Niketan, Burdwan & Haldia 3 each; Bankura & Diamond Harbour 2 each; **Sub-Himalayan West Bengal & Sikkim:** Malda 2; **Jharkhand:** Ranchi 2.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over East Uttar Pradesh, Assam, Gangetic West Bengal and Vidarbha.
- ❖ **Minimum Temperature Departures (as on 07-08-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at most places over Coastal Andhra Pradesh & Yanam; at many places over Rayalaseema, Kerala & Mahe; at a few places over Himachal Pradesh, Uttarakhand, East Rajasthan, Vidarbha, Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Lakshadweep; at isolated places over Gangetic West Bengal, Odisha, Saurashtra & Kutch, Marathwada, Telangana. They were **below normal (-1.6°C to -3.0°C)** at isolated places over West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 21.0°C** was reported at **Narsinghpur (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 07-08-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe; at a few places over Rayalaseema and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at a few places over Vidarbha, Chhattisgarh, Konkan & Goa, Telangana, Lakshadweep and Andaman & Nicobar Islands; at isolated places over Karnataka. They were **markedly below normal (-5.1°C or less)** at isolated places over Bihar; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Jharkhand; at a few places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at a few places over West Rajasthan, East Uttar Pradesh, Sub-Himalaya West Bengal & Sikkim and Assam & Meghalaya; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh and Saurashtra & Kutch and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 40.0°C** was reported at **Palayankottai (Tamil Nadu)**.

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

- ❖ The **cyclonic circulation** over north Bangladesh at 0.9 km above mean sea level with the **trough** aloft roughly along Long. 90°E to the north of Lat. 25°N between 1.5 km & 2.1 km above mean sea level persists.
- ❖ Western end of the **Monsoon Trough** at mean sea level runs along the foothills of Himalayas and the eastern end passes through Gorakhpur, Madhubani, Kishanganj and thence eastwards towards Manipur.
- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 70°E to the north of Lat. 30°N.
- ❖ The **cyclonic circulation** over north Gujarat & neighbourhood at 5.8 Km above mean sea level persists.

### Weather Forecast for next 5 days (Upto 0830 hours IST of 13<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.
- ❖ Thunderstorm with gusty wind (speed reaching 30-40 kmph) likely over south peninsular India.

### 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	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	FWS	FWS	FWS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	FWS	FWS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	FWS	FWS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	WS	FWS	SCT	FWS	FWS	FWS	WS
7	ODISHA	SCT	SCT	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	WS	FWS	SCT	SCT	FWS	FWS	WS
9	BIHAR	WS	FWS	SCT	SCT	FWS	FWS	WS
10	EAST UTTAR PRADESH	FWS	FWS	FWS	FWS	SCT	SCT	FWS
11	WEST UTTAR PRADESH	SCT	FWS	FWS	FWS	SCT	SCT	SCT
12	UTTARAKHAND	FWS	WS	FWS	FWS	WS	WS	WS
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	SCT	SCT	FWS	FWS	FWS	FWS	FWS
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	SCT	SCT	FWS
21	GUJARAT REGION	ISOL	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	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
27	CHHATTISGARH	SCT	SCT	SCT	ISOL	ISOL	ISOL	WS
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	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	FWS	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
35	KERALA & MAHE	SCT	SCT	SCT	SCT	SCT	SCT	ISOL
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT	SCT	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

Fig. 1: Maximum Temperatures Dated 07.08.2023

Fig. 2: Departure of Maximum Temp. Dated 07.08.2023

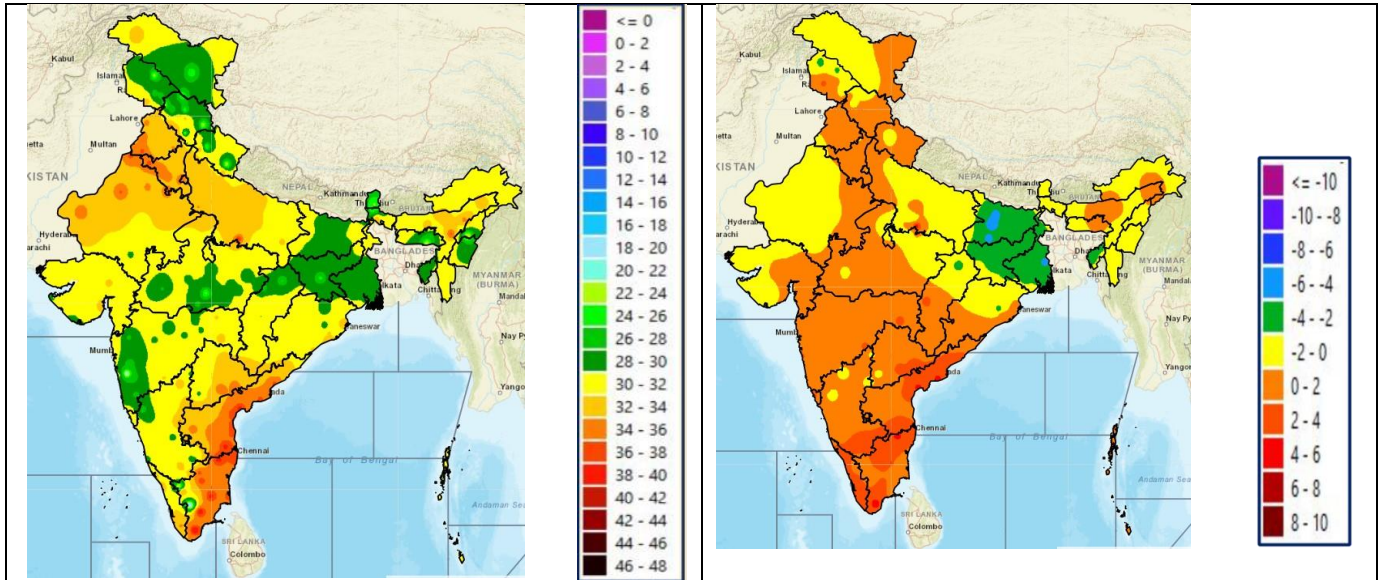
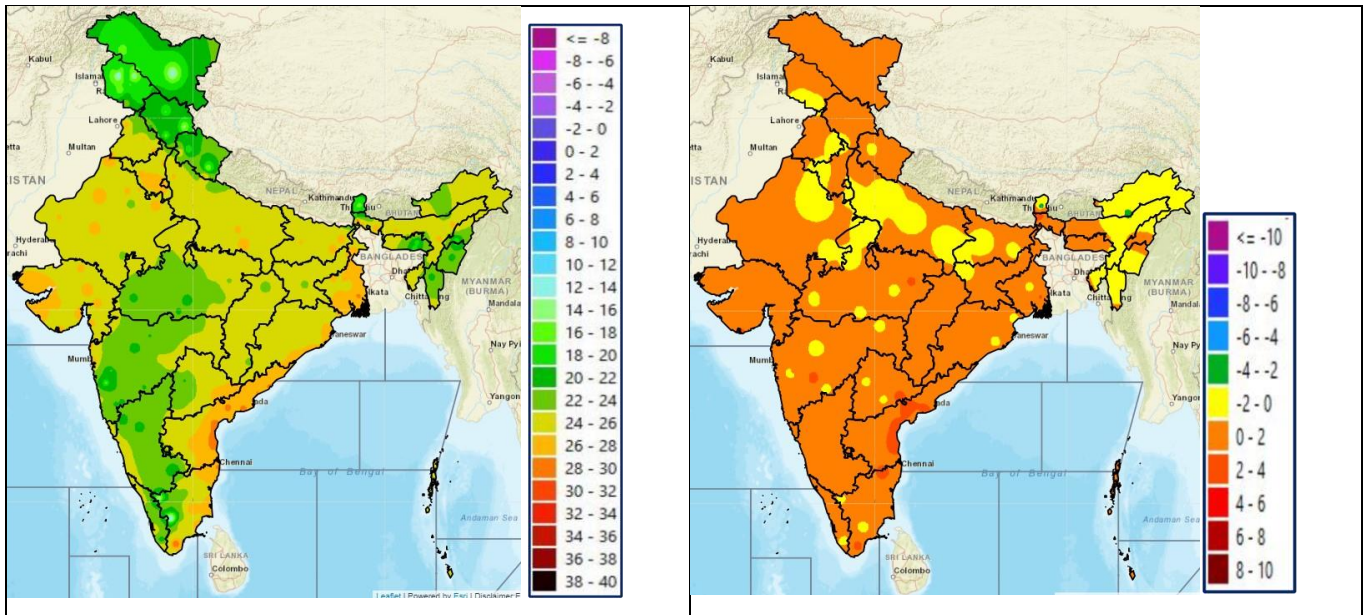


Fig. 3: Minimum Temperatures Dated 07.08.2023

Fig. 4: Departure of Minimum Temp. Dated 07.08.2023

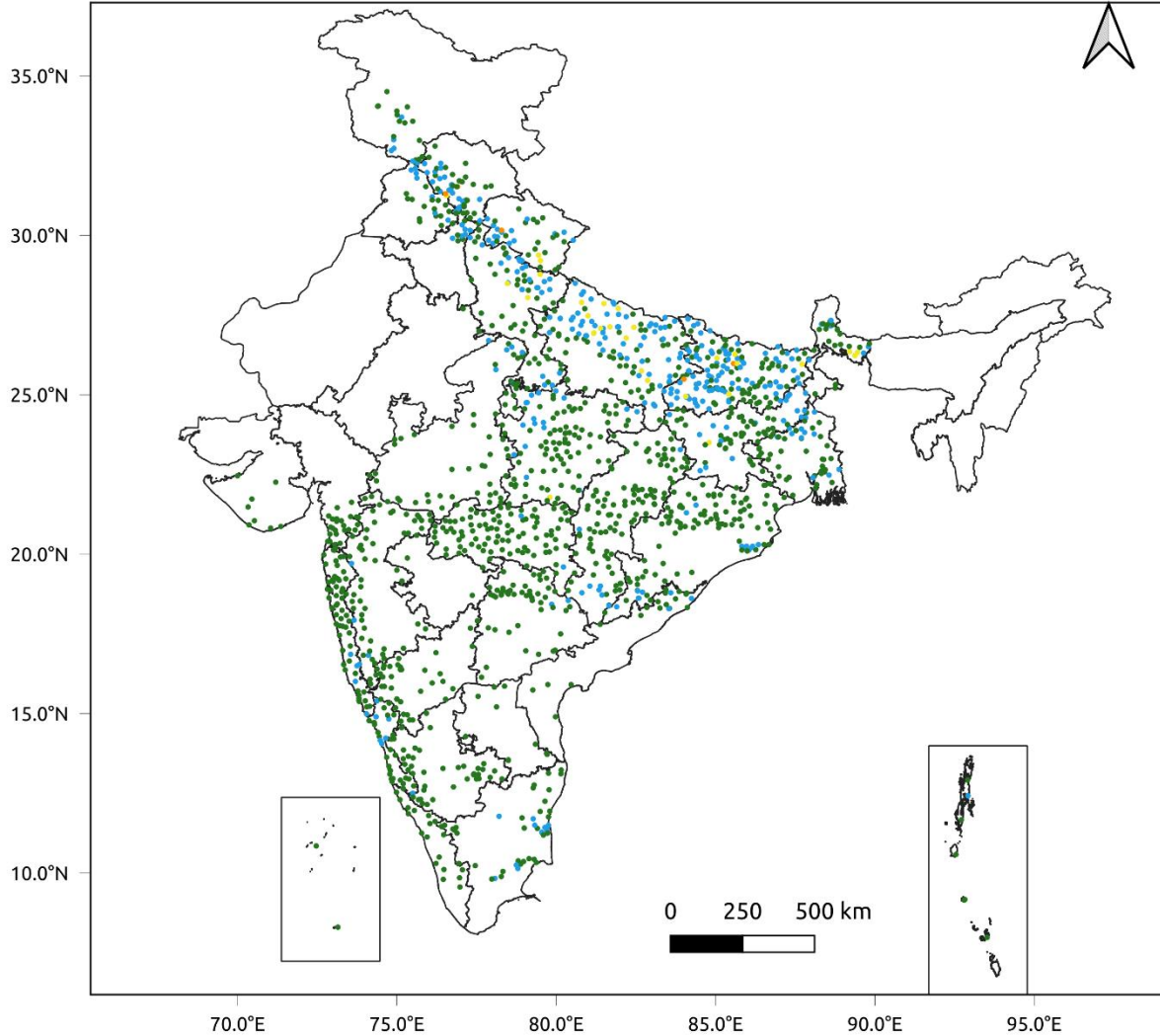


**\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".**  
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For  
more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599  
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**Fig. 5: Accumulated Rainfall (mm) during past 24 hours**

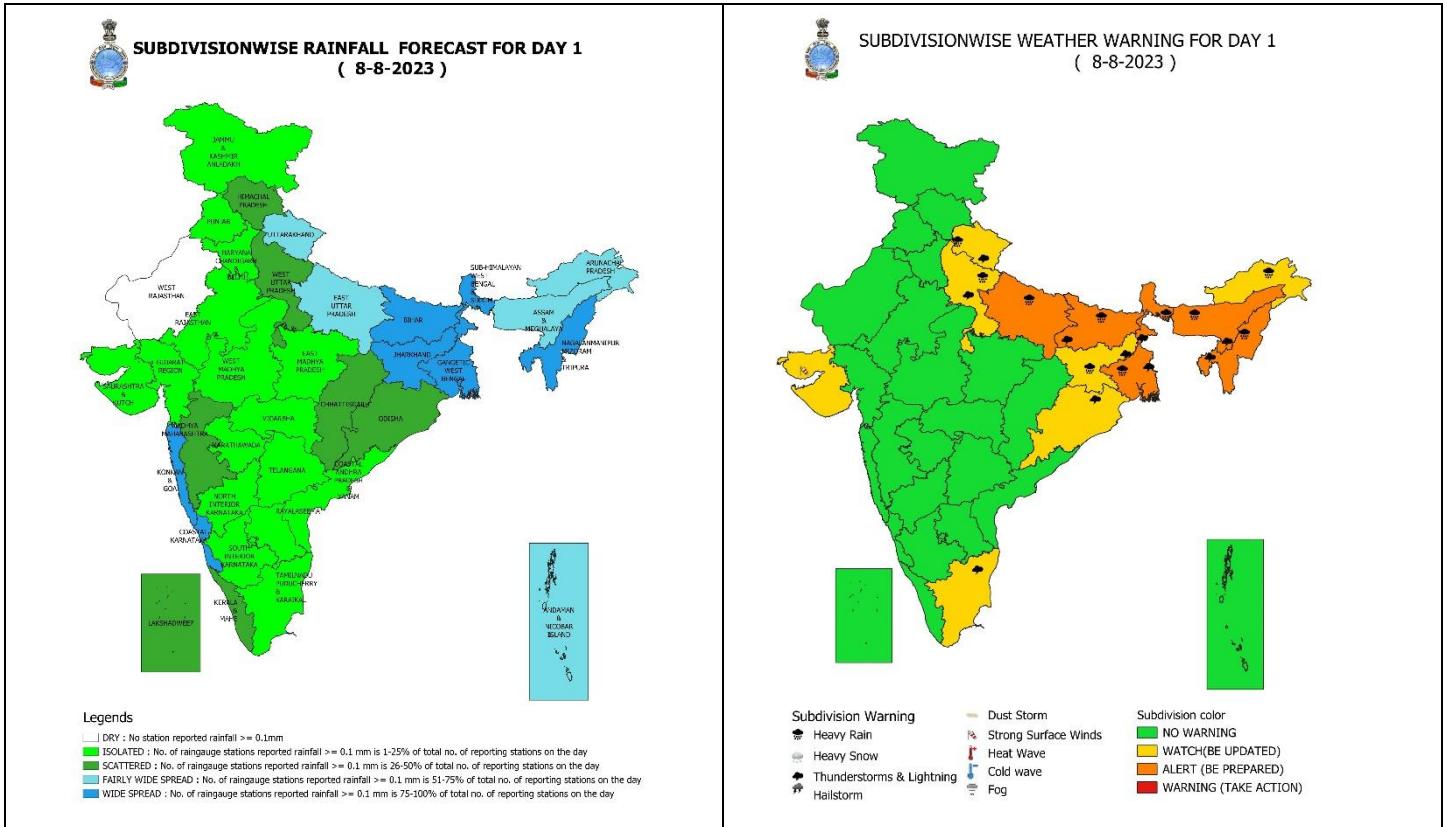


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 6-8-2023 to 0830 IST of 7-8-2023



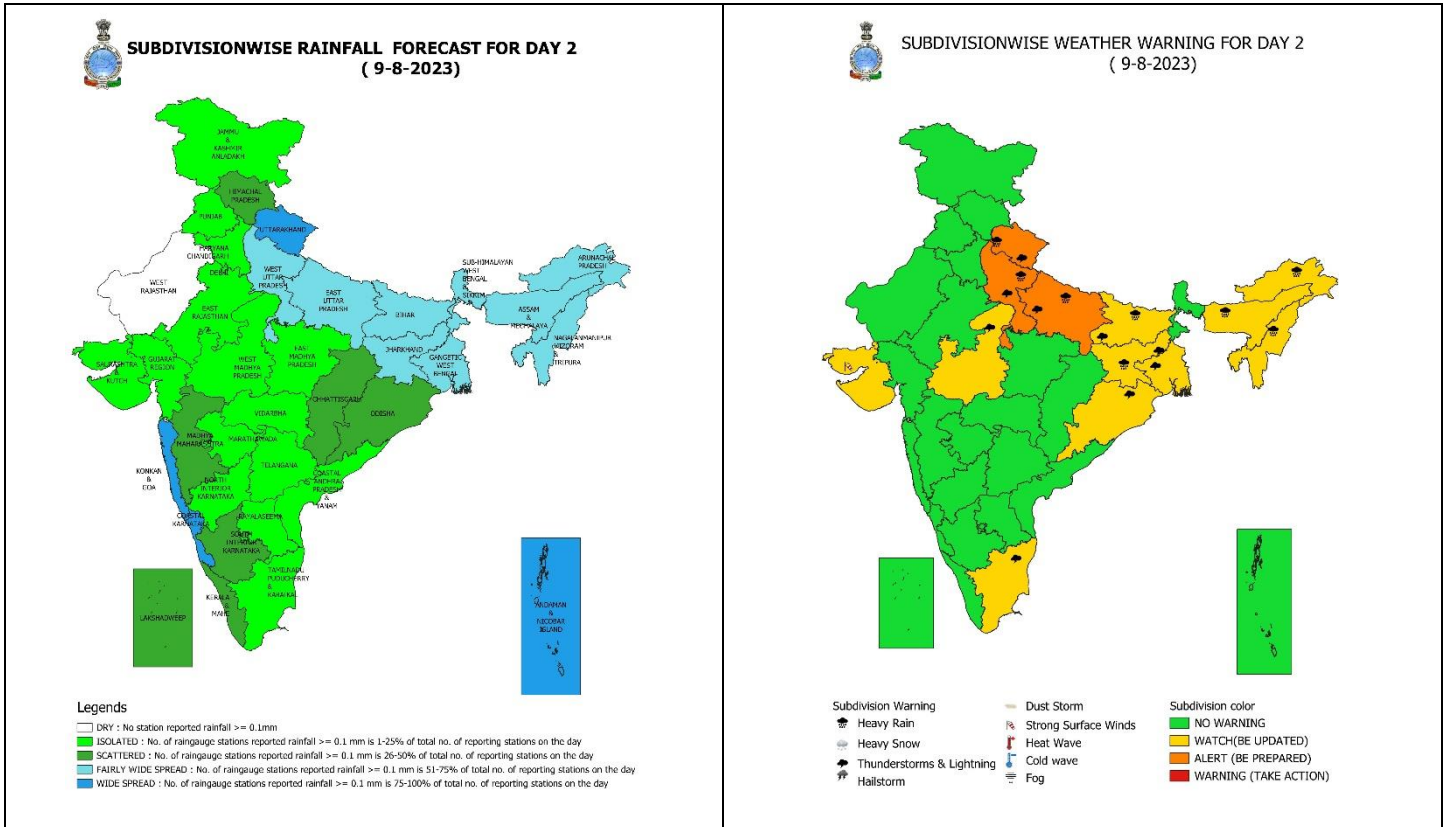
## Legends

- 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)



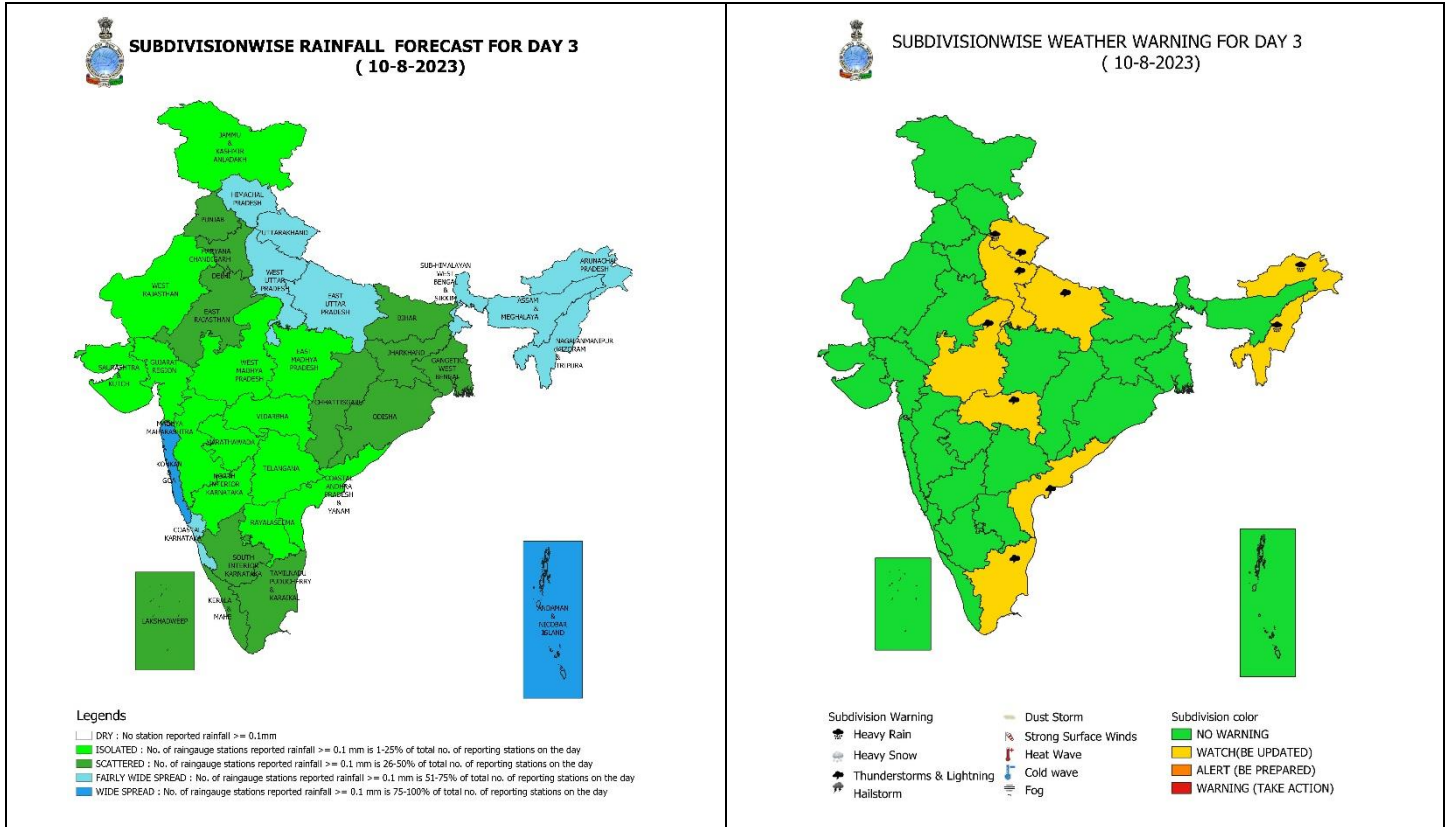
## 08 August (Day 1):

- ❖ **Heavy to very heavy rainfall** at isolated places over East Uttar Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **Heavy rainfall** at isolated places over Uttarakhand, West Uttar Pradesh, Jharkhand, Arunachal Pradesh.
- ❖ **Thunderstorm with lightning** likely at isolated places over Uttarakhand, West Uttar Pradesh, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** very likely over Southwest, Central & North Arabian Sea, along & off Gujarat coasts, Comorin area; **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** over Central & North Bay of Bengal. **Fishermen are advised not to venture into these areas.**
- ❖ **24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 09-08-2023:**  
**Moderate flash flood risk** likely over few watersheds & neighbourhood of **Uttarakhand, Eastern parts of Bihar adjoining Jharkhand, Southern and Eastern parts of SHWB AND Northern & Southern parts of Gangetic West Bengal Met Sub-divisions** during next 24 hours.



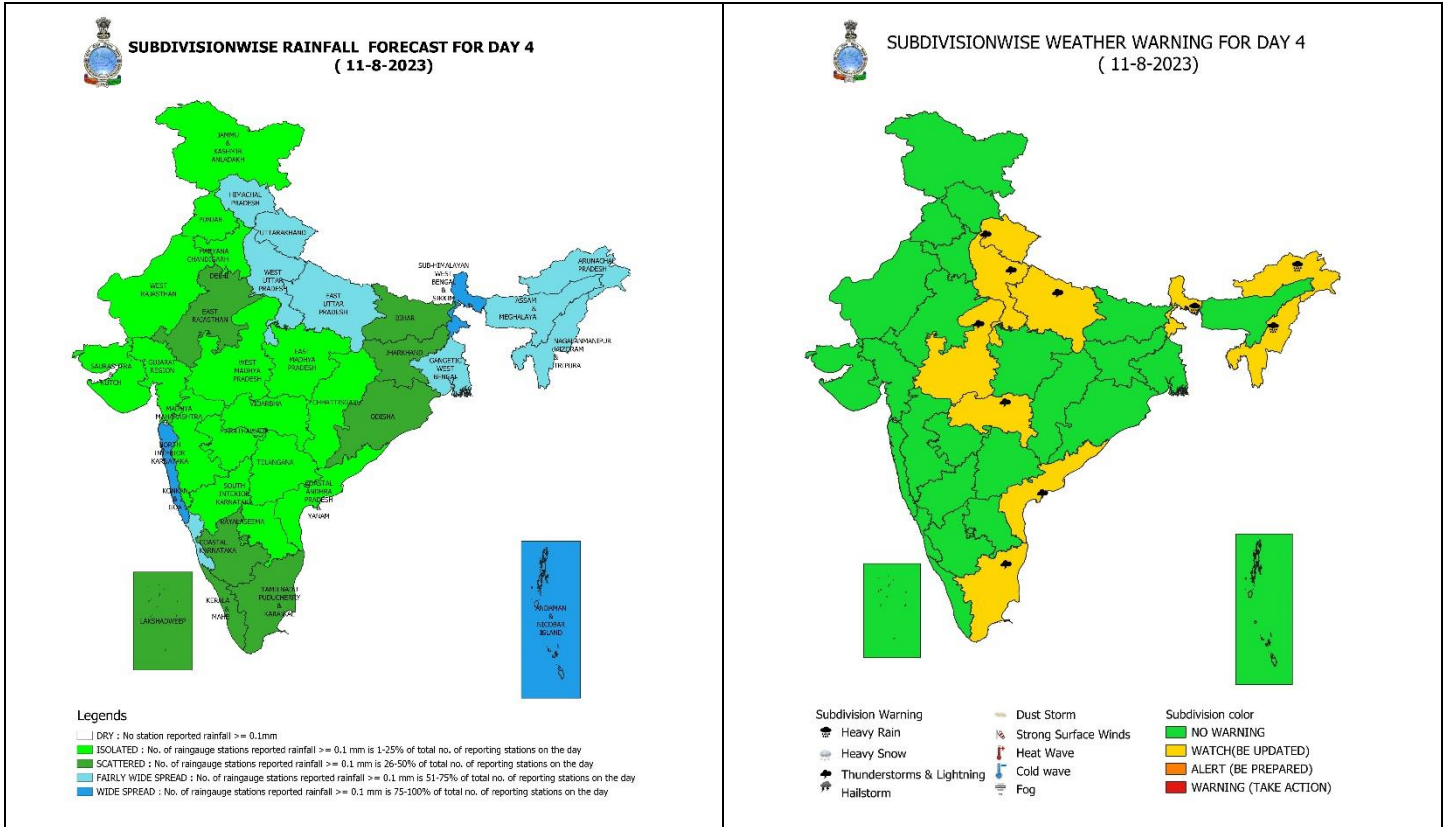
### 09 August (Day 2):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Uttar Pradesh; **Heavy rainfall** at isolated places over Bihar, Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh.
- ❖ **Thunderstorm with lightning** likely at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** very likely over Southwest, Central & North Arabian Sea, along & off Gujarat coast; **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** over South Bay of Bengal. **Fishermen are advised not to venture into these areas.**



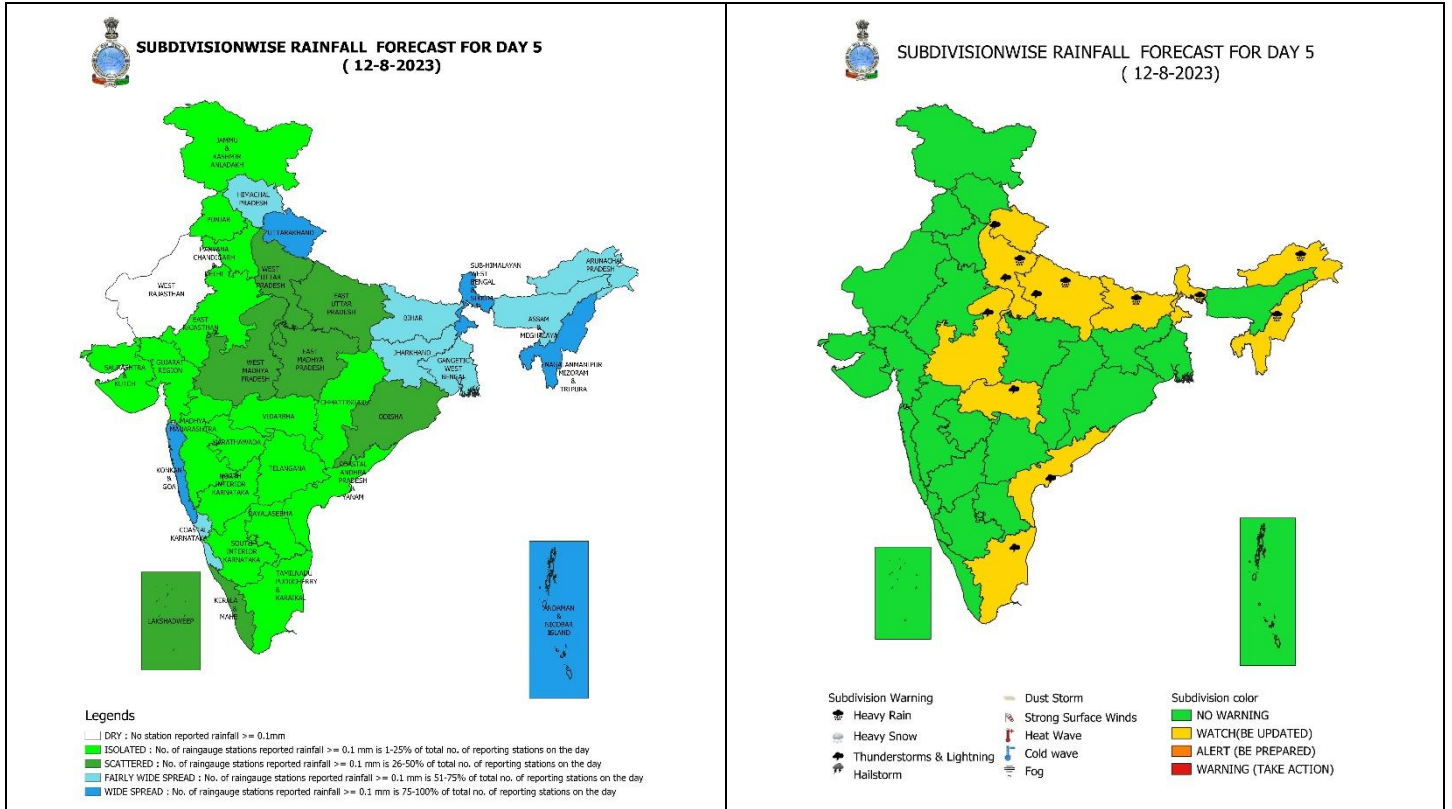
**10 August (Day 3):**

- ❖ **Heavy rainfall** at isolated places over Uttarakhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning** likely at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** very likely over Southwest, Central & adjoining North Arabian Sea. **Fishermen are advised not to venture into these areas.**



### 11 August (Day 4):

- ❖ **Heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning** likely at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** very likely over Southwest, Central & adjoining North Arabian Sea. **Fishermen are advised not to venture into these areas.**



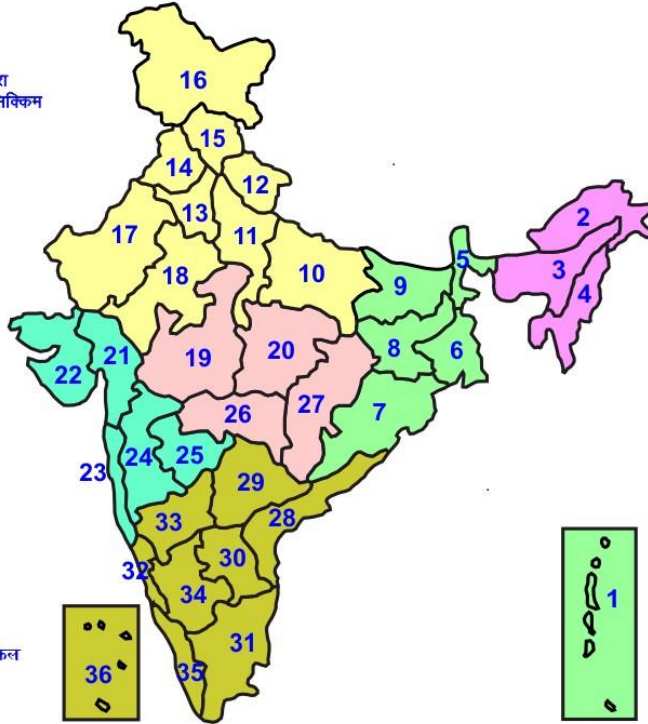
## 12 August (Day 5):

- ❖ **Heavy rainfall** at isolated places over northern parts of Uttar Pradesh & Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning** likely at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** very likely over Southwest, Central & adjoining North Arabian Sea. **Fishermen are advised not to venture into these areas.**



## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 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 ओडिशा
- 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 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 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. Marathawada
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

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## LEGENDS

### WARNING

<b>WARNING (TAKE ACTION)</b>
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<b>NO WARNING ( NO ACTION)</b>

### 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  $< 1\text{km}$

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 Strom: Wind speed  $> 220$  kmph ( $> 119$  knots)

\* 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

(Service to the Nation since 1875)