



Saturday, August 26, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features:

- ❖ The western end of the Monsoon Trough lies along the foothills of the Himalayas and it is likely to remain so or north of its normal position during next 6-7 days. However, the eastern end of the monsoon trough passes through Gorakhpur, Patna, Bankura, Digha and thence southeastwards to eastcentral Bay of Bengal.
- ❖ A cyclonic circulation lies over north Bangladesh & neighbourhood in lower tropospheric levels with trough aloft roughly along Long. 88°E to the north of Lat. 20°N in middle tropospheric levels.

Weather Forecast and Warnings:

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over Sub-Himalayan West Bengal & Sikkim during 26th-27th; over Bihar and Odisha on 26th August, 2023.

Isolated very heavy rainfall also likely over Bihar on 26th August 2023.

Northeast India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with isolated **heavy rainfall** activity very likely over the region during next 5 days.

Isolated very heavy rainfall also likely over Assam & Meghalaya during 26th -27th August, 2023.

Subdued rainfall activity likely over rest parts of the country during next one week.



Main Weather Observations:

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Arunachal Pradesh, Sub-Himalaya West Bengal & Sikkim and Konkan & Goa; **at a few places** over Uttarakhand, Haryana-Chandigarh-Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya and Chhattisgarh and **at isolated places** over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, Uttar Pradesh, Gujarat Region, Madhya Maharashtra, Telangana, Odisha, Coastal Andhra Pradesh & Yanam, North & South Interior Karnataka and Madhya Pradesh
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **(in cm):**
Arunachal Pradesh: Chnglang-15; Kaying-7; Kamba-4; **Uttarakhand;** Khatima (UdhamSinghnagar)-17; Pithoragarh -8; Chorgalia & Haldawani- (Nanital)-7 each; **Assam & Meghalaya:** Bdadarpur (Karimganj)-10; Cherrapunji -6; Tangla-3; **Nagaland, Manipur, Mizoram & Tripura:** Chwnha and Saiha- 3 each; **Sub-Himalaya West Bengal & Sikkim;** Soreng-10; Manga, Namchi -9 each; Rangla -8; Nawthong-6; **Uttar Pradesh:** Lucknow, Gorakhpur, Bnadaha, Baharaich - 3 each; **Konkan & Goa:** Mormngao-6; Mapusa and Devgad-4 each; **Madhya Maharashtra:** Satara - 5; Pune -3; **Chhattisgarh;** Raipur -6; **Odisha:** Balasore -6; Balangir-4; **Coastal Andhra Pradesh & Yanam:** Mehodrigadda(Vishakhapatnam)-3.
- ❖ **Yesterday's Heavy to heavy rainfall** at isolated places over Arunachal Pradesh and Uttarakhand and **heavy rainfall** at isolated places over Sub- Himalayan West Bengal and Assam & Meghalaya.
- ❖ **Minimum Temperature Departures (as on 25-08-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Uttarakhand, Coastal Andhra Pradesh & Yanam, Telangana and Lakshadweep; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Saurashtra & Kutch, Chhattisgarh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Madhya Maharashtra, Andaman & Nicobar Islands, Kerala & Mahe and North Interior Karnataka. They were **below normal (-1.6°C to -3.0°C)** at isolated places over Uttar Pradesh, West Madhya Pradesh, Bihar, Assam & Meghalaya and West Bengal & Sikkim and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 20.2°C** was reported at **Dhar (West Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-08-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Kerala & Mahe; at a few places over Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at a few places over Karnataka and at isolated places over Telangana and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 39.9°C** was reported at **Ongole (Coastal Andhra Pradesh & Yanam)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The western end of **Monsoon Trough** continues to run along the foothills of the Himalayas and its eastern end continues to pass through Gorakhpur, Patna, Bankura, Digha and thence southeastwards to eastcentral Bay of Bengal at mean sea level.
- ❖ The cyclonic circulation Northeast Uttar Pradesh & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over North Bangladesh & neighbourhood extending upto 1.5 km above mean sea level with trough aloft roughly along Long. 88°E to the north of Lat. 20°N between 3.1 & 5.8 km above mean sea level persists.
- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 70°E to the north of Lat. 32°N persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 31st August, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ 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	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	WS	FWS	FWS	SCT	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	WS	WS	FWS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	FWS	WS	WS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	FWS	FWS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	SCT	ISOL	ISOL	SCT	SCT	SCT
7	ODISHA	FWS	SCT	SCT	SCT	SCT	FWS	FWS
8	JHARKHAND	FWS	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
9	BIHAR	WS	SCT	SCT	ISOL	ISOL	ISOL	SCT
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
12	UTTARAKHAND	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
14	PUNJAB	SCT	ISOL	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
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	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	WS	WS	WS	WS	FWS	FWS	SCT
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	ISOL	ISOL	ISOL	ISOL	SCT
28	COASTAL ANDHRA PRADESH & YANAM	FWS	SCT	SCT	SCT	ISOL	ISOL	SCT
29	TELANGANA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	SCT
32	COASTAL KARNATAKA	FWS	SCT	SCT	SCT	SCT	SCT	SCT
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
35	KERALA & MAHE	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
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

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more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599
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Fig. 1: Maximum Temperatures Dated 25.08.2023

Fig. 2: Departure of Maximum Temp. Dated 25.08.2023

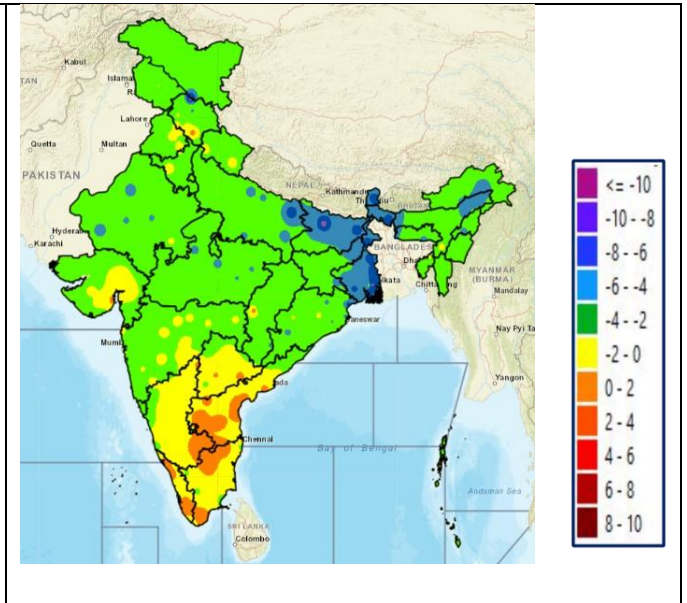
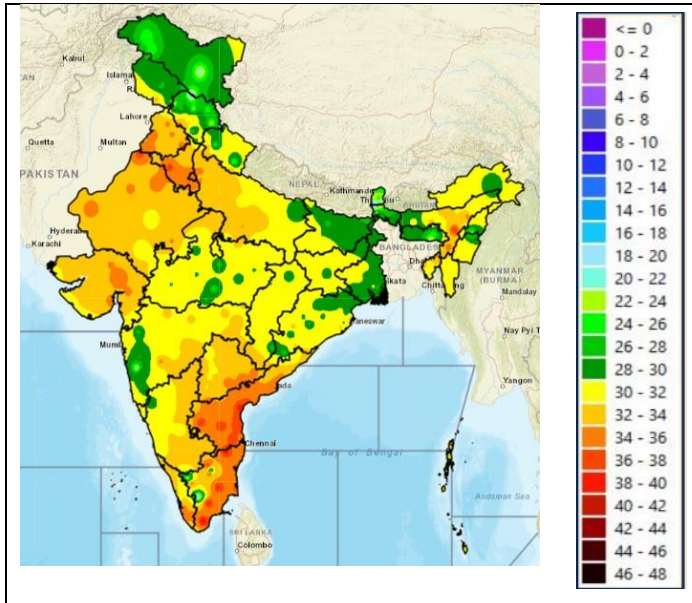


Fig. 3: Minimum Temperatures Dated 25.08.2023

Fig. 4: Departure of Minimum Temp. Dated 25.08.2023

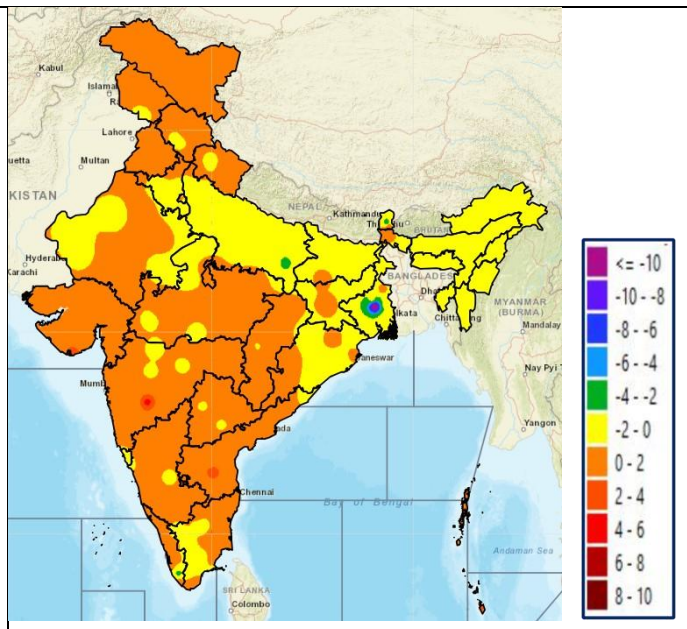
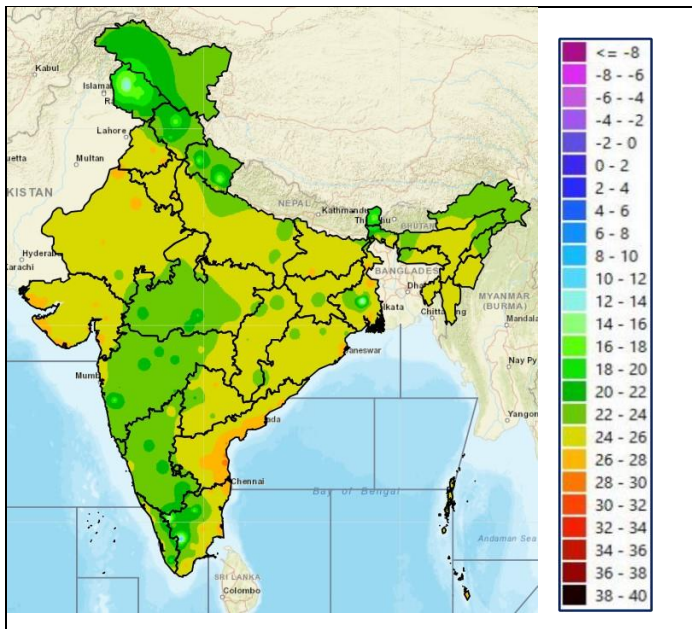
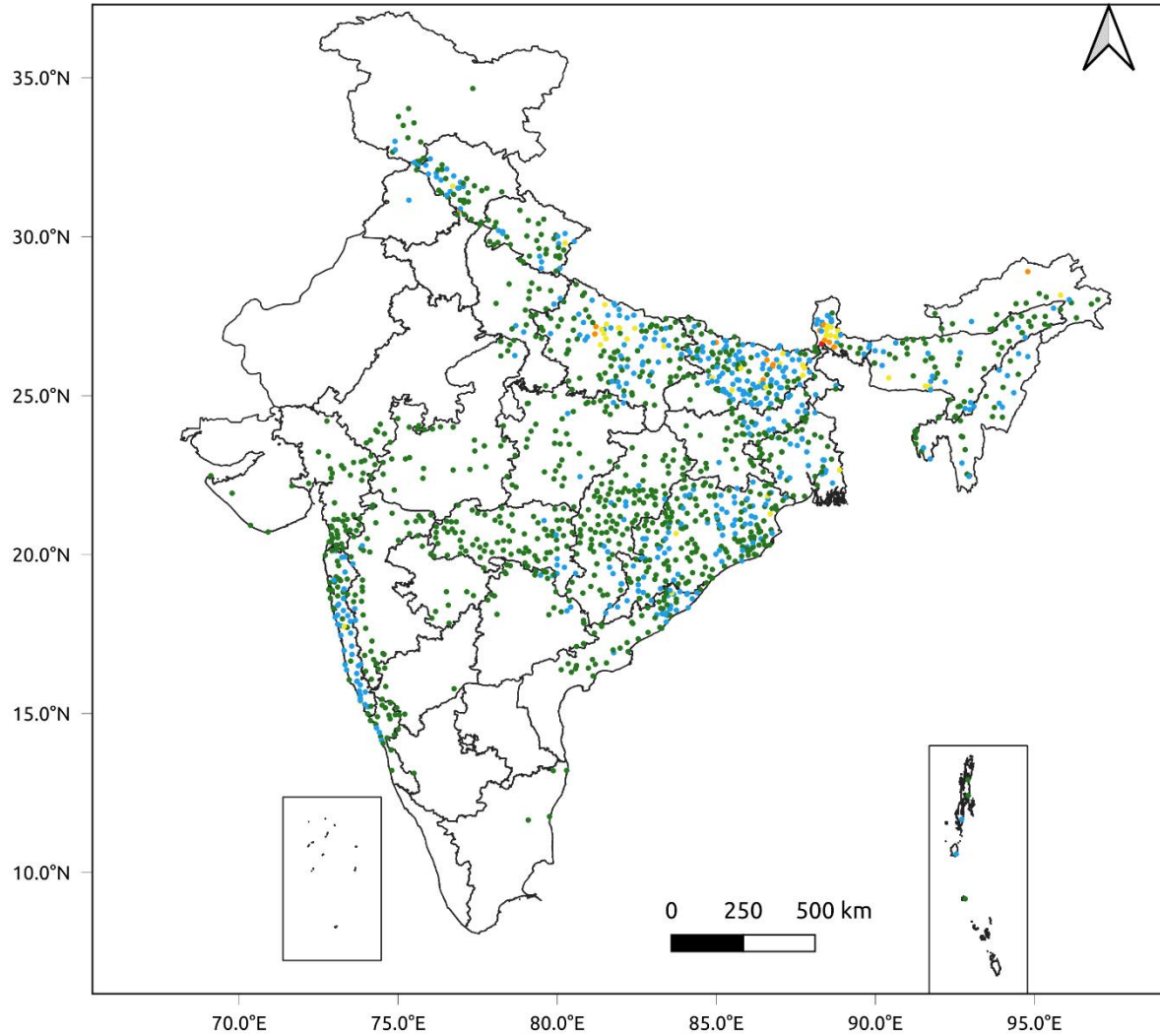


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

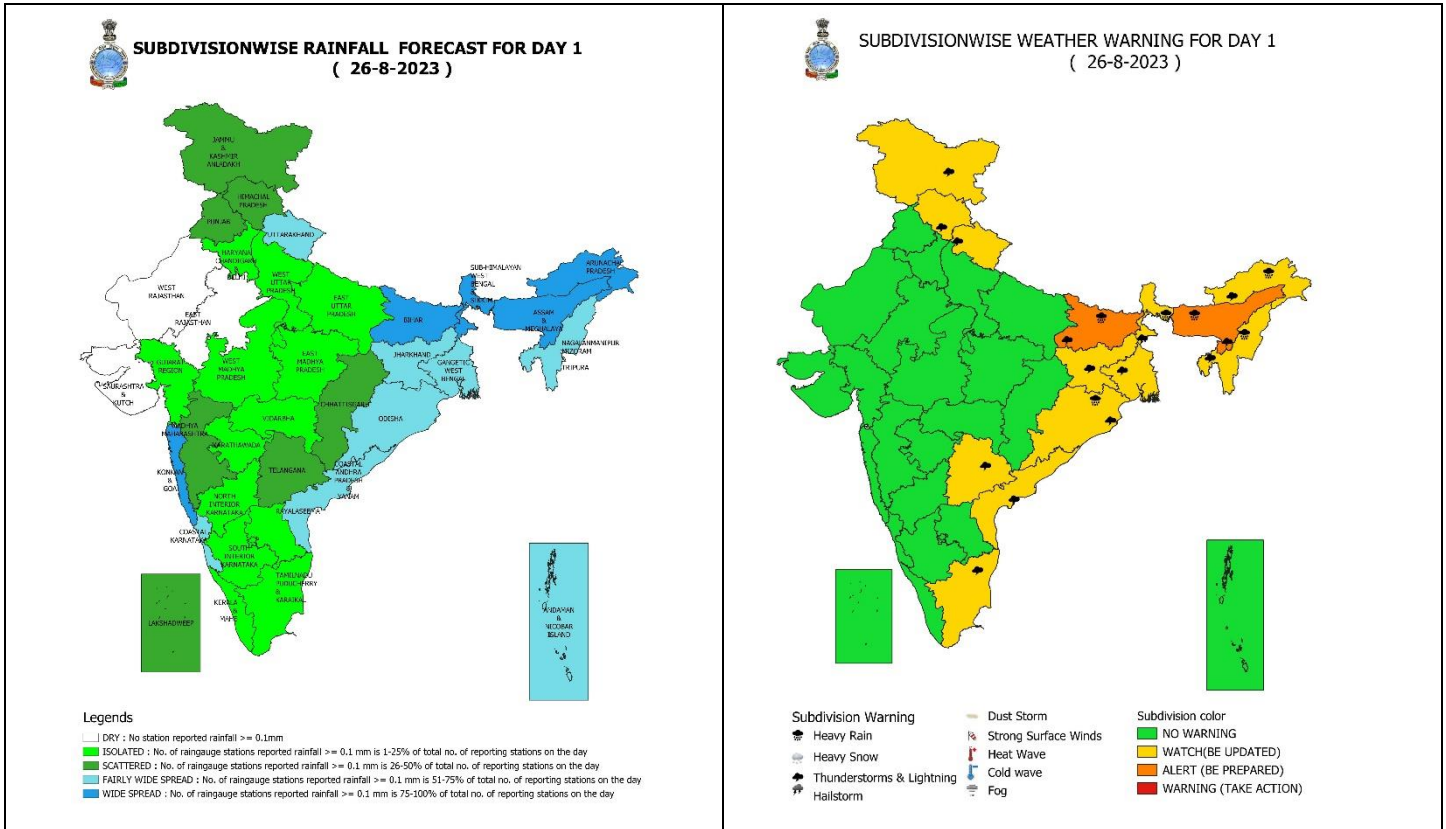


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 24-8-2023 to 0830 IST of 25-8-2023



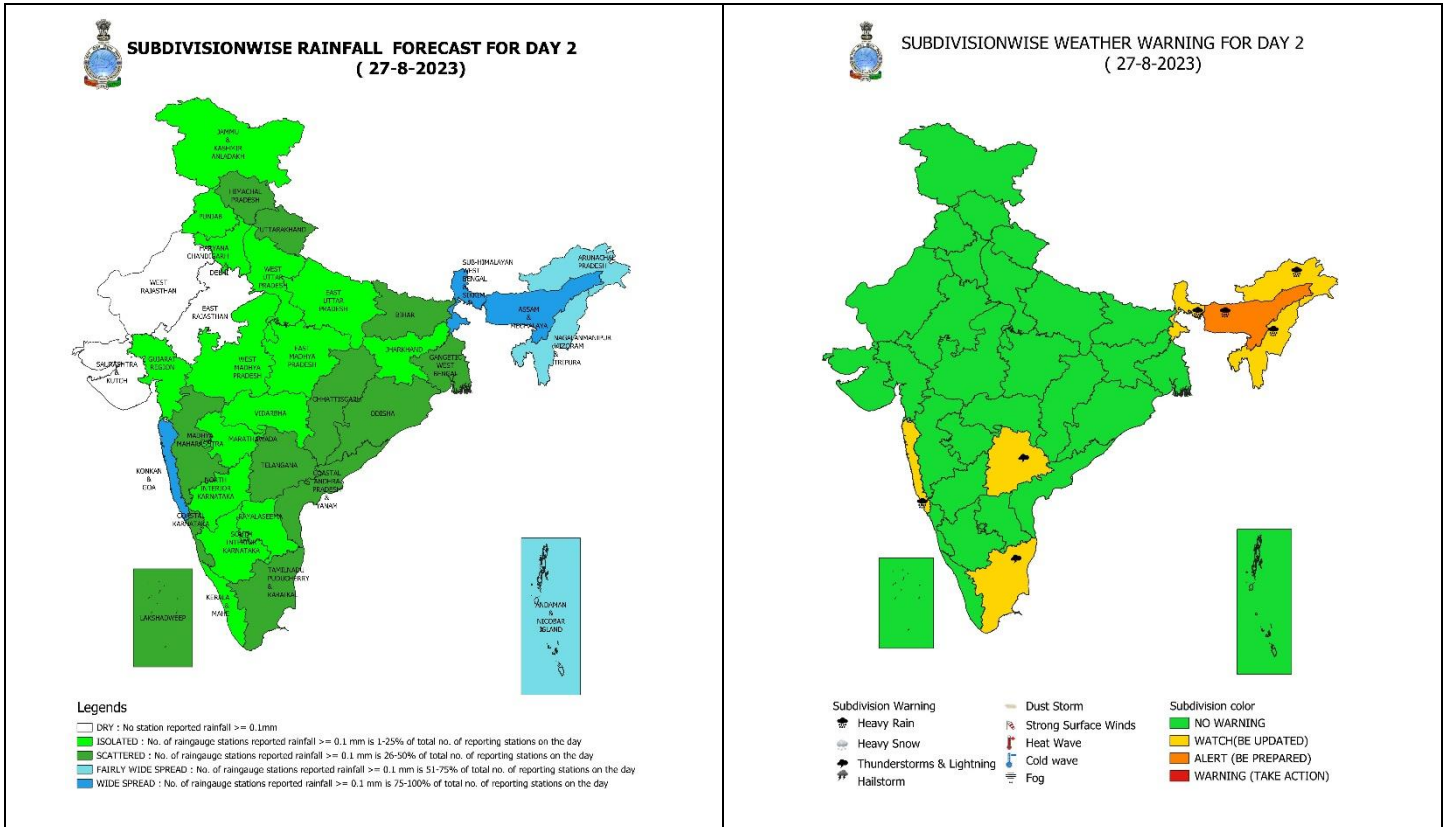
Legends

- 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 (≥ 204.5 mm)



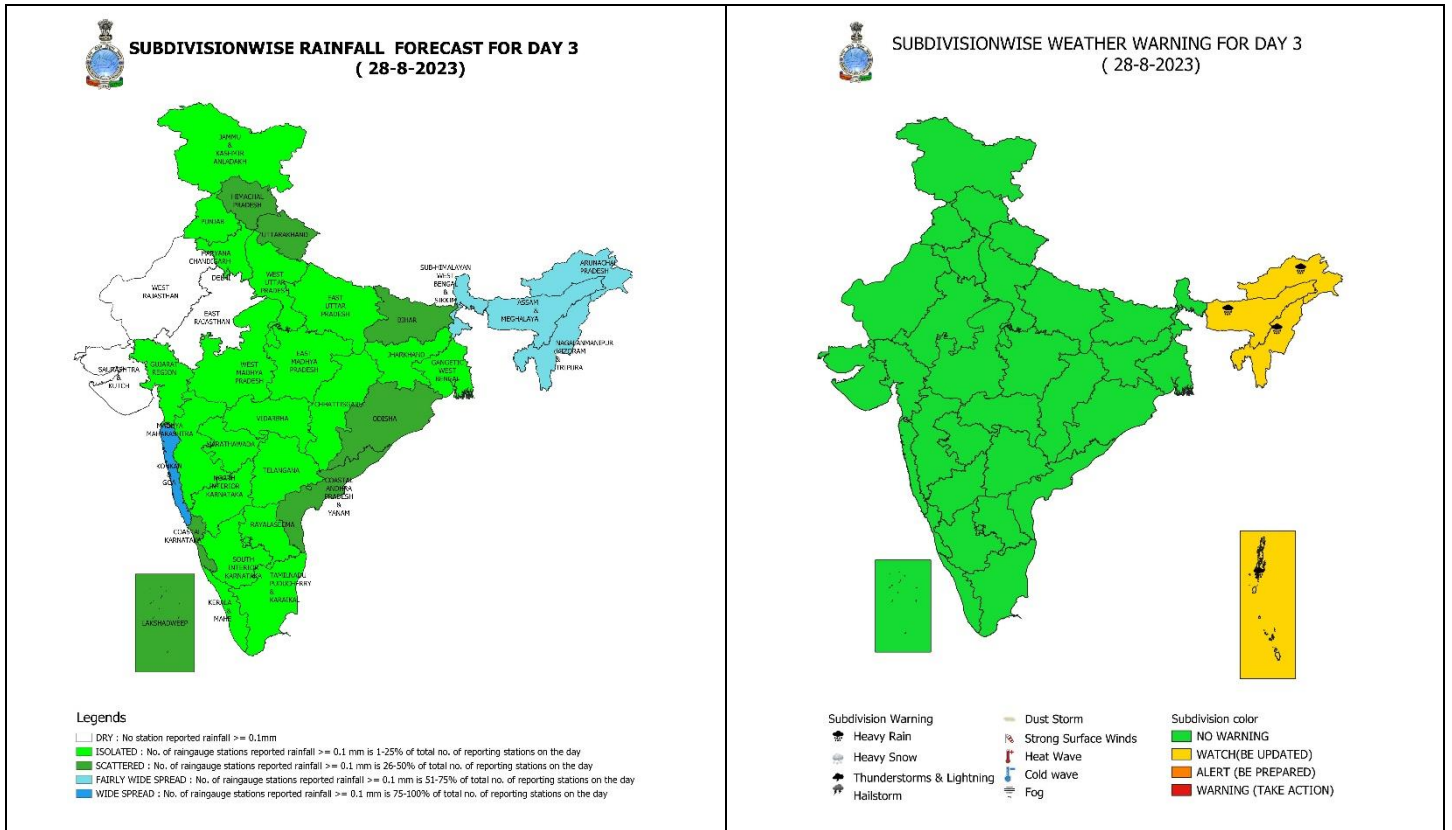
26 August (Day 1): -

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Bihar, Assam & Meghalaya and **Heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Westcentral and adjoining Southwest Arabian Sea. **Fishermen are advised not to venture into these areas.**



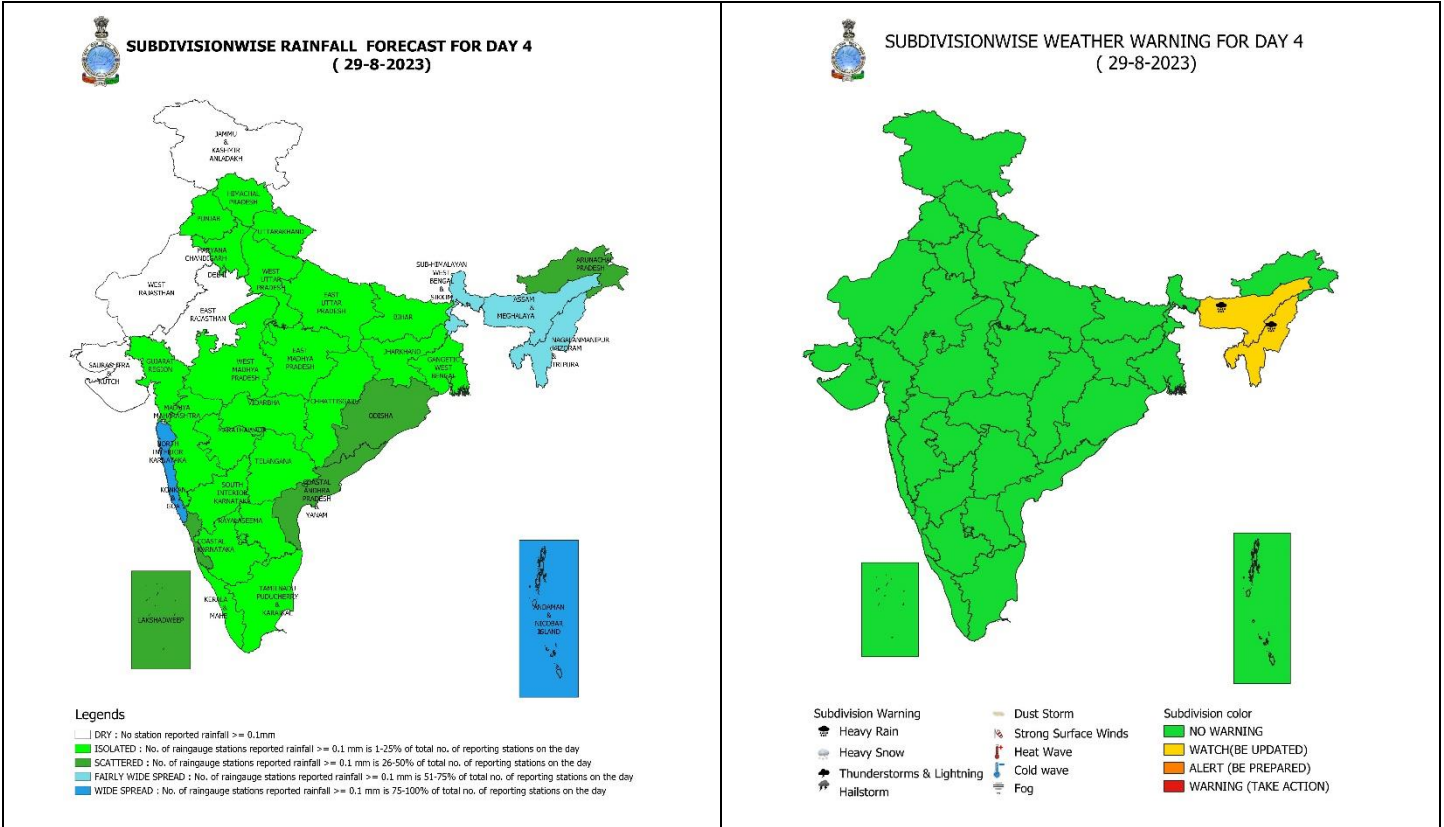
27 August (Day 2): -

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya and **Heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa.
- ❖ **Thunderstorm with lightning** very likely at isolated places over Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Westcentral and adjoining Southwest Arabian Sea. **Fishermen are advised not to venture into these areas.**



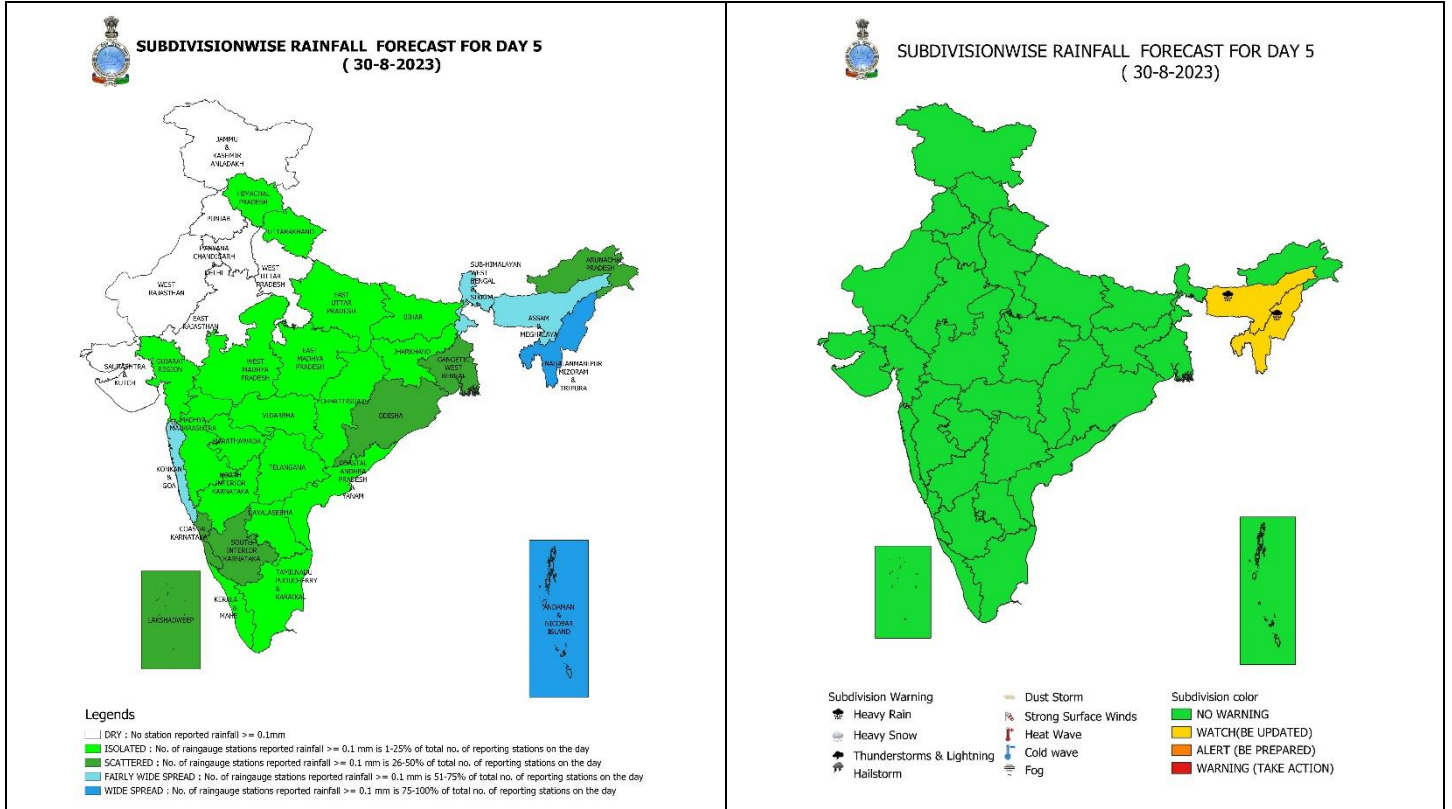
28 August (Day 3): -

- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Westcentral and adjoining Southwest, Northwest & Eastcentral Arabian Sea. **Fishermen are advised not to venture into these areas.**



29 August (Day 4): -

- ❖ **Heavy rainfall** likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Westcentral and adjoining Southwest, Northwest & Eastcentral Arabian Sea. **Fishermen are advised not to venture into these areas.**



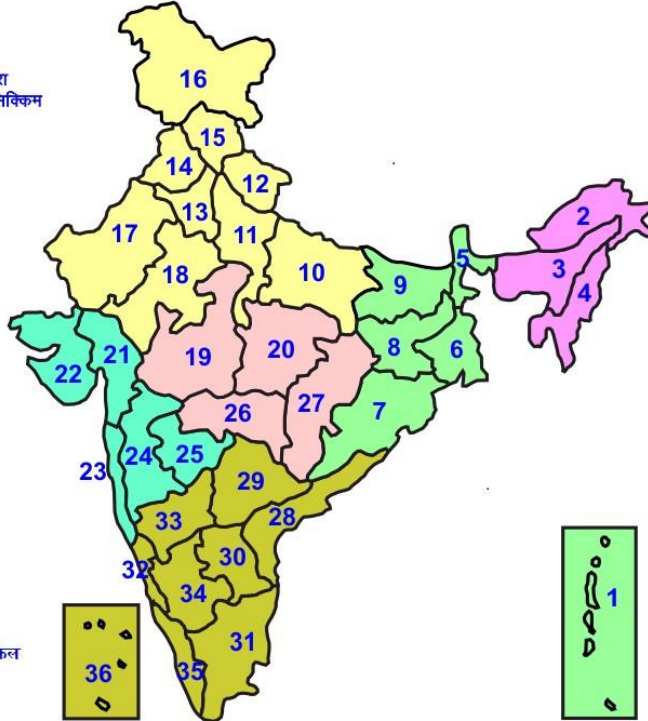
30 August (Day 5): -

- ❖ **Heavy rainfall** likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Westcentral and adjoining Southwest, Northwest & Eastcentral 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 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

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



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".

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WATCH (BE UPDATED)
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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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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)

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