



Wednesday, August 02, 2023
Time of Issue: 0845 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features:

- ❖ **Deep Depression over Gangetic West Bengal:** The **Deep Depression** over coastal Bangladesh and neighbourhood moved west-northwestwards with a speed of 31 kmph during past 6 hours and lay centred at 0530 hours IST of 02nd August, 2023 over Gangetic West Bengal near latitude 23.1°N and longitude 87.2°E, close to Bankura (West Bengal), about 130 km west-northwest of Kolkata (West Bengal) and 190 km east-southeast of Ranchi. It is likely to move west-northwestwards across Jharkhand and weaken gradually into a Depression during next 12 hours and into a Well Marked Low Pressure Area during subsequent 24 hours.
- ❖ The Western end of the Monsoon Trough at mean sea level runs close to foothills of Himalayas and Eastern end now passes through Gorakhpur, Gaya, Deogarh, center of Deep Depression over Gangetic West Bengal and thence southeastwards to Eastcentral Bay of Bengal. The eastern end of the Monsoon trough likely to shift northwards towards foothills of the Himalayas by 06th August.

Weather Forecast and Warning:

East India: Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning and **heavy to very heavy rainfall** at isolated places very likely over Bihar during 02nd-06th; Odisha on 02nd & 03rd; over Gangetic West Bengal and Jharkhand on 02nd and over Sub-Himalaya West Bengal & Sikkim during 02nd-04th August.

Isolated extremely heavy rainfall also very likely over Odisha on 02nd August, 2023.

Central India: Light/moderate scattered to fairly widespread rainfall with isolated **heavy to very heavy rainfall** is very likely over East Madhya Pradesh during 02nd-04th; north Chhattisgarh on 02nd & 03rd; West Madhya Pradesh on 03rd & 04th and Vidarbha on 02nd August. **Isolated extremely heavy rainfall also likely over East Madhya Pradesh on 03rd August.**

Northwest India: Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, Uttar Pradesh & East Rajasthan during 02nd-06th; Himachal Pradesh, Haryana, West Uttar Pradesh during 03rd-06th, August.

Isolated very heavy rainfall also likely over East Uttar Pradesh on 02nd & 03rd; Uttarakhand during 03rd-06th; Himachal Pradesh on 03rd & 04th; West Uttar Pradesh and East Rajasthan on 03rd August.

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

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra during next 5 days, Marathwada on 02nd August and over Gujarat Region during 04th-06th August, 2023.

South India: Light/moderate widespread rainfall with **isolated heavy rainfall** very likely over Coastal Karnataka during 02nd-04th and reduced rainfall activity over the remaining regions.

Fishermen Warning: Fishermen are advised not to venture into North & adjoining Central Bay of Bengal and along & off Bangladesh-West Bengal-North Odisha coasts till forenoon of 02nd August.

* 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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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Odisha, Gangetic West Bengal and Chhattisgarh; **at many places** over Gujarat Region, Konkan & Goa and Madhya Maharashtra; **at a few places** over Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Marathwada and **at isolated places** over Punjab, West Uttar Pradesh, East Rajasthan, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh and Vidarbha.
- ❖ **Heavy rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** at isolated places over Odisha and **heavy rainfall** at isolated places over Gangetic West Bengal.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **(in cm): Odisha:** Boudh-17, Bhawanipatna-12, Phulabani-10; **Gangetic West Bengal:** Haldia-7, Burdwan, Ulubelia, Diamond Harbour & Bankura-4 each, Purulia-2; **Punjab:** Ludhiana-6; **Madhya Maharashtra:** Mahabaleshwar-3; **Konkan & Goa:** Matheran-2.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Punjab, East Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, Gangetic West Bengal, Odisha and Telangana.
- ❖ **Minimum Temperature Departures (as on 01-08-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at most places over Punjab and Andaman & Nicobar Islands; at many places over West Uttar Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar and Lakshadweep; at a few places over East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and at isolated places over East Uttar Pradesh, West Madhya Pradesh, Kerala & Mahe and Vidarbha. They were **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi, Odisha and Telangana and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 19.4°C** was reported at **Narsinghpur (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 01-08-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Arunachal Pradesh and Sub-Himalaya West Bengal & Sikkim; at isolated places over Gangetic West Bengal; **above normal (1.6°C to 3.0°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab and Uttar Pradesh; at a few places over Madhya Pradesh and Vidarbha; at isolated places over Haryana-Chandigarh-Delhi and East Rajasthan. They were **below normal (-1.6°C to -3.0°C)** at isolated places over Odisha, Gujarat State and Madhya Maharashtra and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 38.60°C** was reported at **Phalodi (West Rajasthan)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Deep Depression** over coastal Bangladesh and neighbourhood moved west-northwestwards with a speed of 31 kmph during past 6 hours and lay centred at 0530 hours IST of 02nd August, 2023 over Gangetic West Bengal near latitude 23.1°N and longitude 87.2°E, close to Bankura (West Bengal), about 130 km west-northwest of Kolkata (West Bengal) and 190 km east-southeast of Ranchi. It is likely to move west-northwestwards across Jharkhand and weaken gradually into a Depression during next 12 hours and into a Well Marked Low Pressure Area during subsequent 24 hours.
- ❖ The Western end of the Monsoon Trough at mean sea level runs close to foothills of Himalayas and Eastern end now passes through Gorakhpur, Gaya, Deogarh, center of **Deep Depression** over Gangetic West Bengal and thence southeastwards to Eastcentral Bay of Bengal.
- ❖ The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level from Long. 75°E & 38°N to Long. 64°E & 27°N persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 07th 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.
- ❖ Thunderstorm accompanied with lightning likely over Northwest & Central India during next 4 days and over Northeast India during next 24 hours.

Weather Outlook for subsequent 2 days

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



Table-1

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

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 Dated 01.08.2023

Fig. 2: Departure of Maximum Temp. Dated 01.08.2023

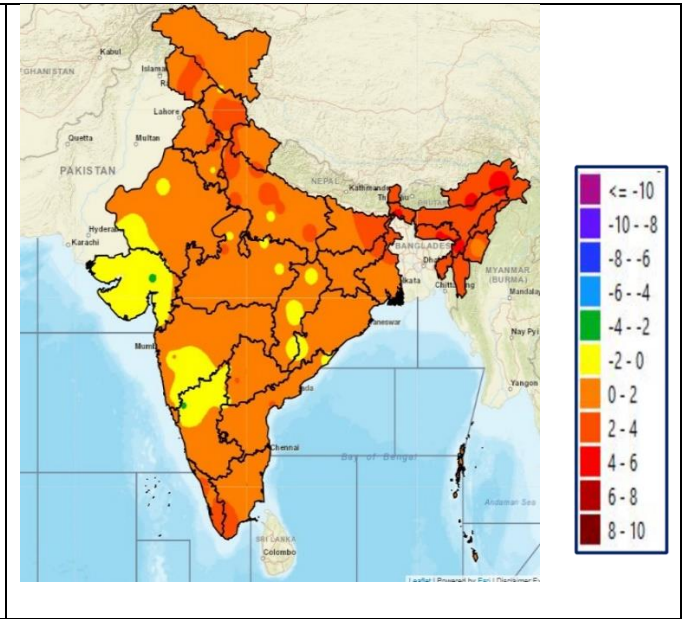
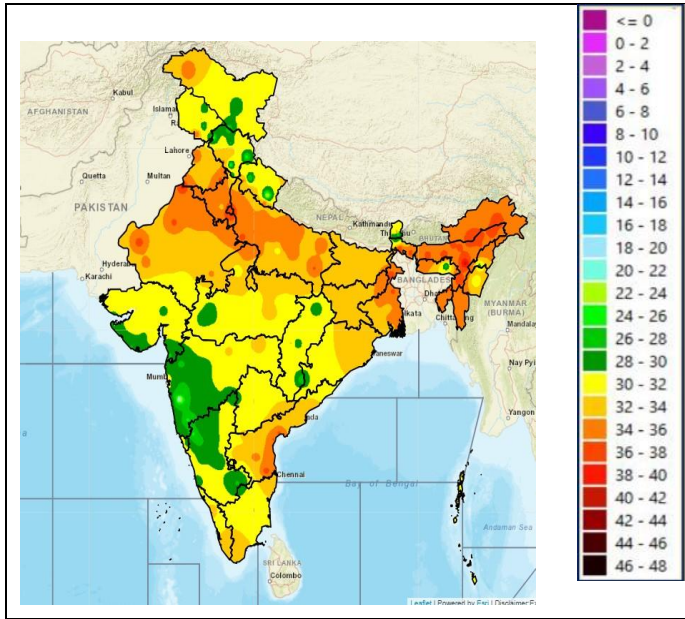


Fig. 3: Minimum Temperatures Dated 01.08.2023

Fig. 4: Departure of Minimum Temp. Dated 01.08.2023

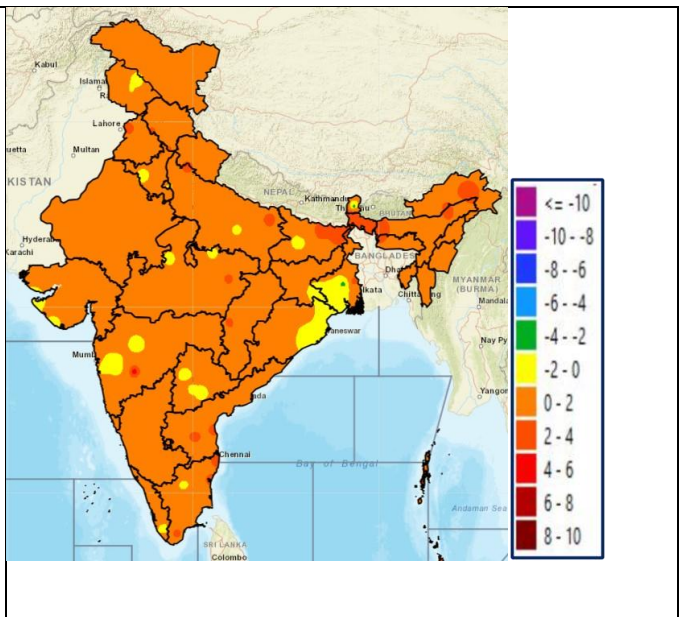
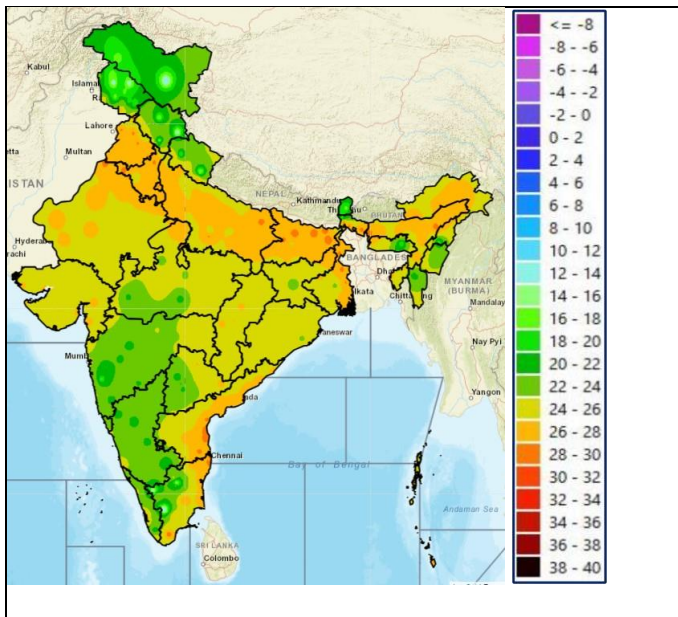
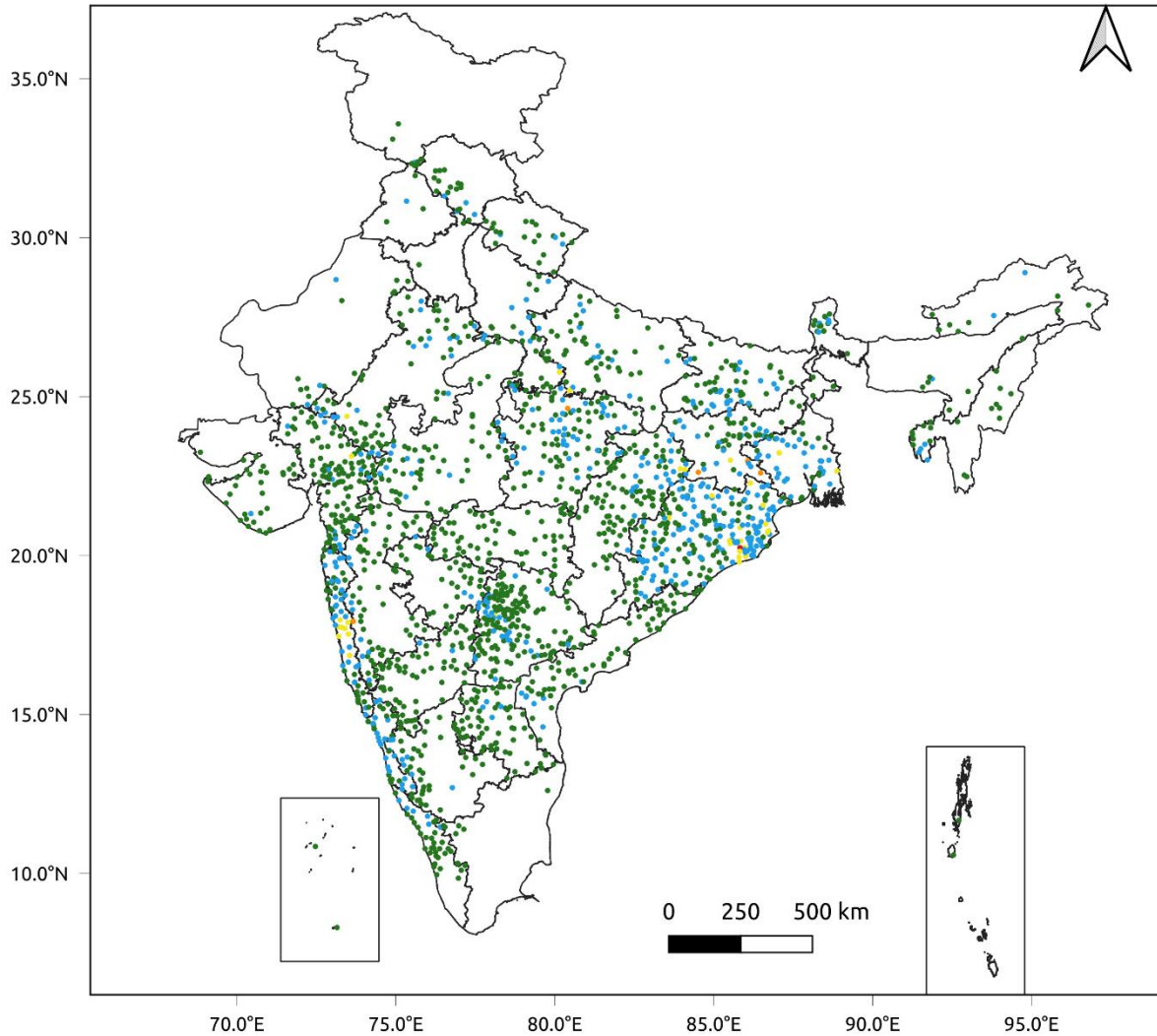


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

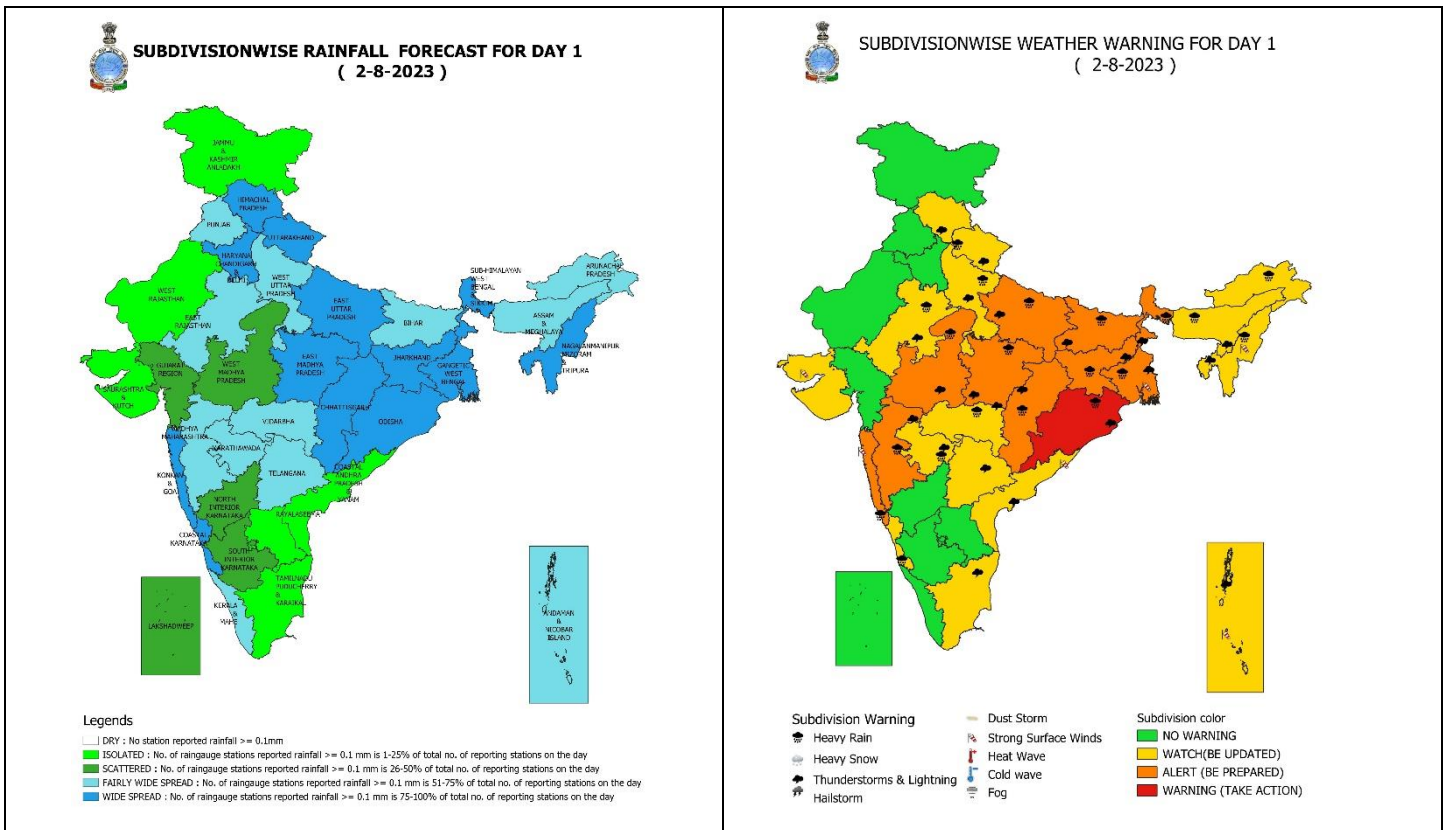


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 31-7-2023 to 0830 IST of 1-8-2023



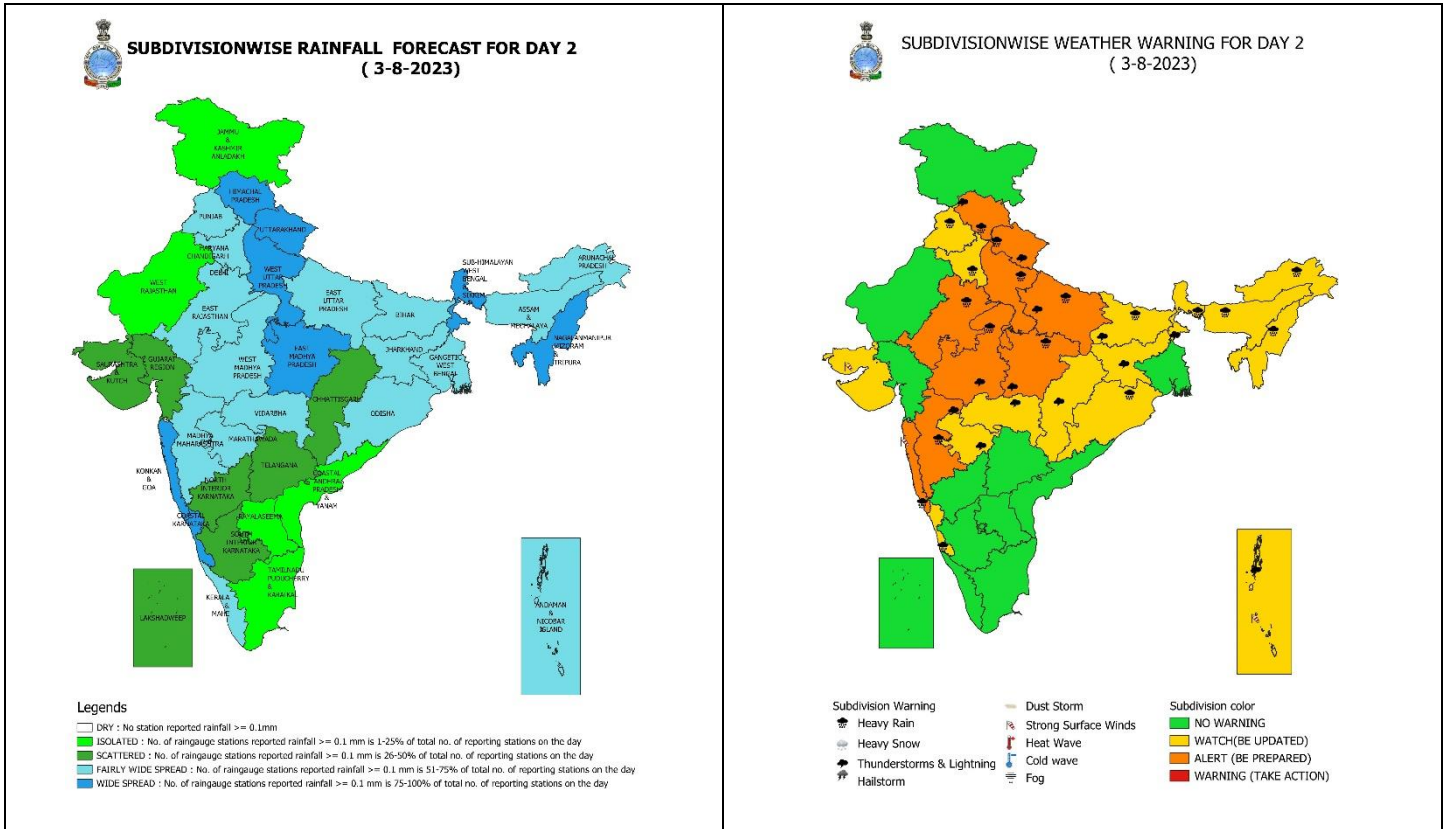
Legends

- 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)



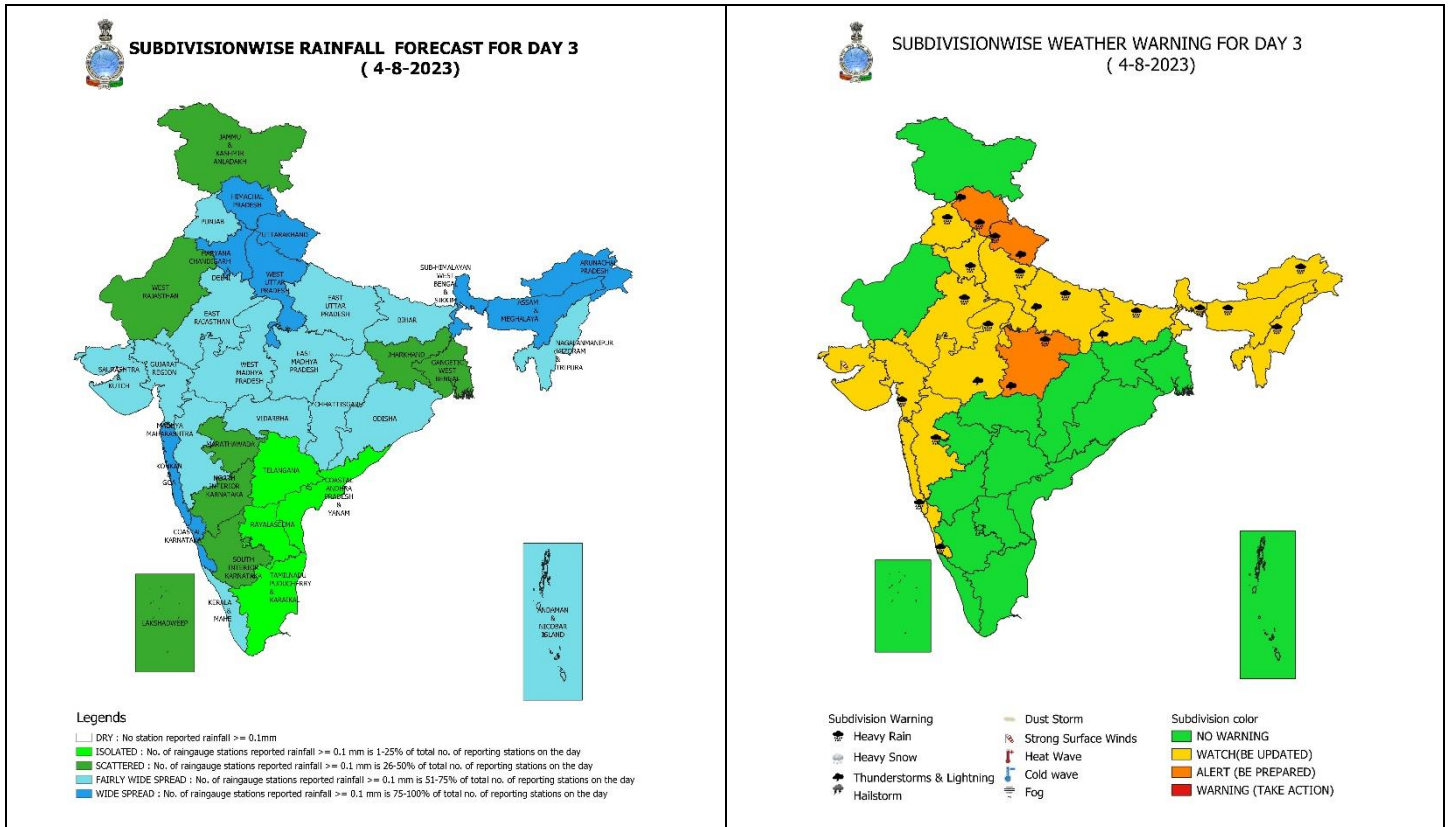
02 August (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Odisha; **Heavy to very heavy rainfall** at isolated places over East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa and Madhya Maharashtra; **Heavy rainfall** at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Vidarbha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathwada and Coastal Karnataka.
- ❖ **Thunderstorm with lightning gusty (wind speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal and East Uttar Pradesh; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalaya West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Southwest, Central & North Arabian Sea, along & off Gujarat-Maharashtra coasts and Comorin area. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over north, central & adjoining southeast Bay of Bengal and north Andaman Sea. **Fishermen are advised not to venture into these areas.**



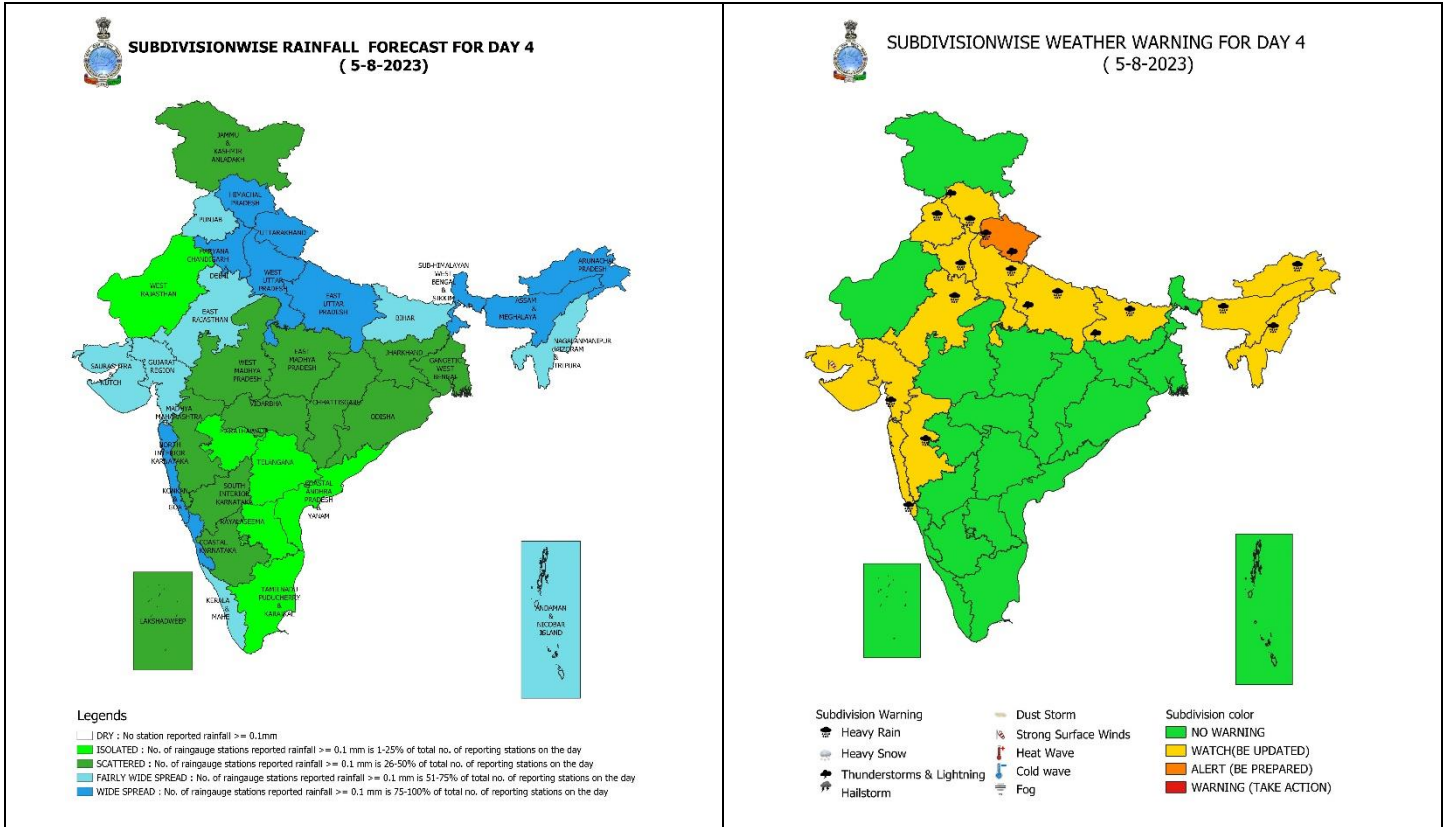
03 August (Day 2):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over East Madhya Pradesh; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Konkan & Goa and Madhya Maharashtra; **Heavy rainfall** at isolated places over Punjab, Haryana-Chandigarh-Delhi, Sub-Himalaya West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka.
- ❖ **Thunderstorm with lightning gusty (wind speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands and East Uttar Pradesh; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalaya West Bengal & Sikkim, Bihar, Jharkhand, Madhya Maharashtra and Marathwada.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Southwest, Central & North Arabian Sea, along & off Gujarat-Maharashtra coasts and Comorin area. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over northwest, central & adjoining south Bay of Bengal and north Andaman Sea. **Fishermen are advised not to venture into these areas.**



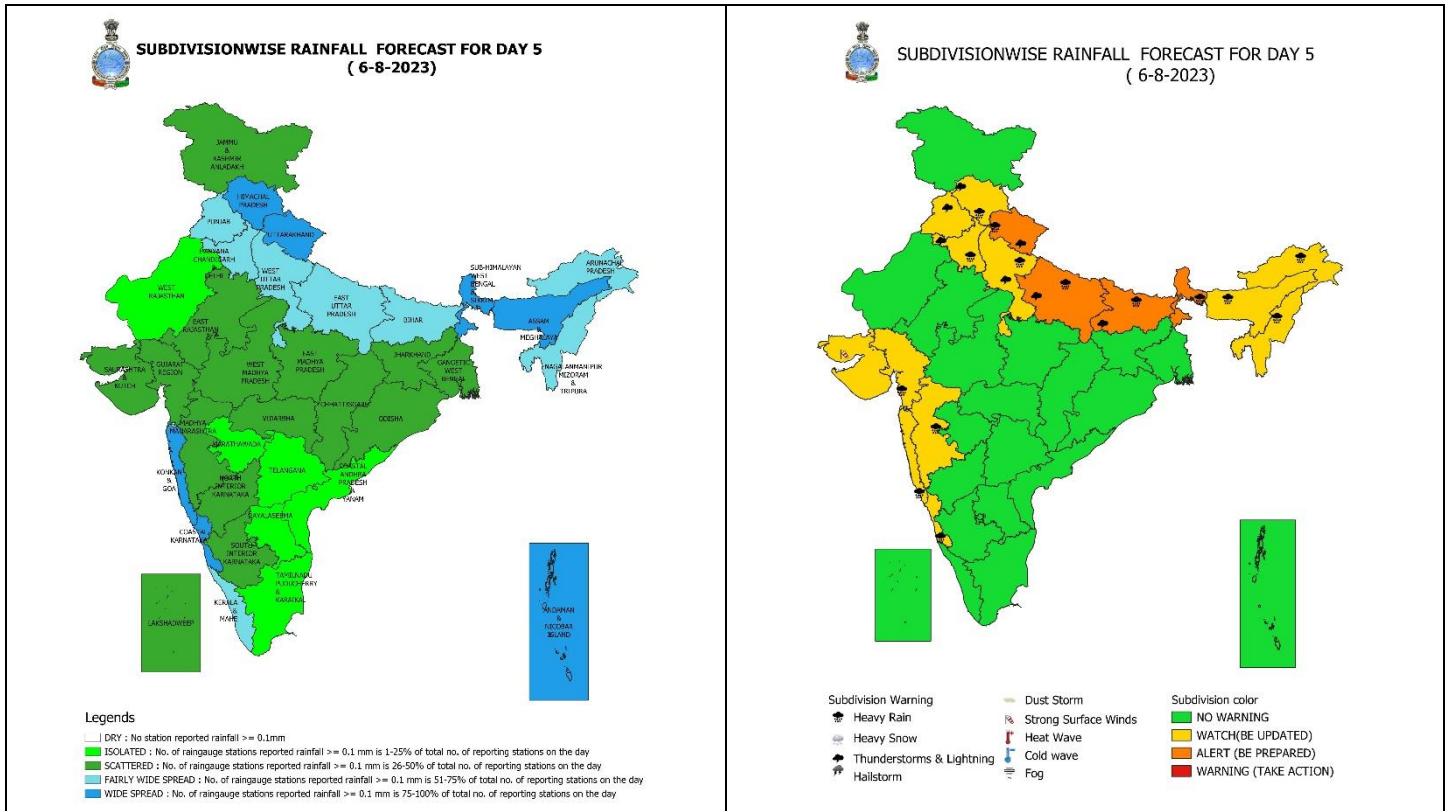
04 August (Day 3):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya; **Heavy rainfall** likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalaya West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region and Coastal Karnataka.
- ❖ **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh and Bihar.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Southwest, Central & North Arabian Sea, along & off Gujarat coast and Comorin area. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over central & adjoining south Bay of Bengal. **Fishermen are advised not to venture into these areas.**



05 August (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Arunachal Pradesh and Assam & Meghalaya; **Heavy rainfall** likely at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, Bihar, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Gujarat Region.
- ❖ **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh and Bihar.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Southwest, Central & North Arabian Sea, along & off Gujarat coast and Comorin area. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over central & adjoining south Bay of Bengal. **Fishermen are advised not to venture into these areas.**



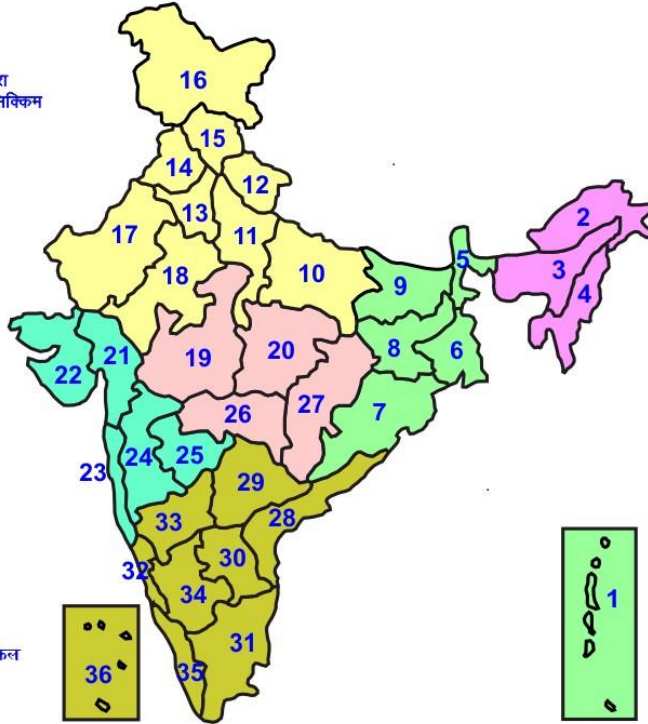
06 August (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Bihar, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; **Heavy rainfall** likely at isolated places over Himachal Pradesh, Punjab, north Haryana-Chandigarh, West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, south Konkan & Goa and Coastal Karnataka.
- ❖ **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Uttarakhand and Bihar.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Southwest, Central & North Arabian Sea, along & off Gujarat coast and Comorin area. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over central & adjoining south Bay of Bengal. **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 Rajsthan
18. East Rajsthan
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

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

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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°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 $< 1\text{km}$

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

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