

Saturday, January 13, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings during next 5 days:

- ❖ Conditions are becoming favourable for cessation of Northeast Monsoon rains over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka around 15th January, 2024.
- ❖ A Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long. 56°E to the north of Lat. 32°N. Under its influence; Light rainfall/snowfall at isolated places very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 13th January.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 16th January, 2024. Under its influence; Light rainfall/snowfall at isolated places very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 16th & 17th and Uttarakhand on 17th & 18th January.

Dense fog and Cold day warning:

- ❖ **Dense to very dense fog** conditions very likely to prevail for a few hours in night/morning in many parts of Punjab and Haryana, Chandigarh & Delhi on 13th and in some pockets for subsequent 3-4 days.
- ❖ **Dense to very dense fog** conditions very likely to prevail for a few hours in night/morning in some parts of Uttar Pradesh on 13th and in isolated pockets for subsequent 3 -4 days.
- ❖ **Dense fog** conditions very likely to prevail for a few hours in morning in isolated pockets of Uttarakhand during 13th-17th; Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, north Madhya Pradesh on 13th; West Rajasthan, Bihar, Odisha, East Rajasthan on 13th & 14th and Assam & Meghalaya, Mizoram & Tripura during 13th-15th January.
- ❖ **Cold Day to Severe Cold Day** conditions very likely to continue in many parts of Punjab, Haryana-Chandigarh-Delhi on 13th and **cold day conditions** in isolated pockets for subsequent 3 -4 days.
- ❖ **Cold Day** conditions very likely to continue in isolated pockets of Uttarakhand and Uttar Pradesh on 13th January, 2024.

Temperatures Forecast and Cold wave warning:

- ❖ Gradual fall by 2-3°C in minimum temperatures likely over many parts of Central and East India during next 2 days and no significant change thereafter.
- ❖ No significant change in minimum temperatures very likely over Northwest India during next 4-5 days.
- ❖ **Cold wave to Severe Cold wave** conditions very likely to continue in isolated pockets of Punjab, Haryana, Chandigarh & Delhi on 13th and **cold wave** conditions in isolated pockets on 14th January, 2024.
- ❖ **Cold wave** conditions very likely in isolated pockets of Rajasthan, Uttar Pradesh on 13th and over Bihar during 13th-14th January.
- ❖ **Ground frost conditions in isolated pockets** very likely over Uttarakhand, Punjab, Rajasthan and Haryana on 13th January, 2024.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Andaman & Nicobar Islands and Tamil Nadu.
- ❖ **Significant rainfall amount recorded** (from 0830 hours IST to 1730 hours IST of yesterday): (1 cm or more): **NIL**.
- ❖ Yesterday, **Cold wave to severe cold wave conditions** prevailed in isolated pockets of East Rajasthan, Punjab and **cold wave condition** in isolated pockets of Haryana and West Rajasthan.
- ❖ **Fog conditions** observed (at 0530 hours IST of today, 13.01.2024): **Dense to Very Dense fog** reported in isolated pockets of Punjab and East Uttar Pradesh; **Dense fog** in isolated pockets over Haryana, Delhi, Madhya Pradesh, Bihar, Assam, Gangetic West Bengal and Andhra Pradesh; **Moderate fog** in isolated pockets over Rajasthan, West Uttar Pradesh.
- ❖ **Visibility** recorded (at 0530 hours IST of today, 13.01.2024) (≤ 500 metres): **Punjab**: Amritsar-25, Patiala-500; **Haryana-Delhi**: Hissar-50, Palam (Delhi) & Safdarjung (Delhi)-200 each; **Uttar Pradesh**: Lucknow & Varanasi(Babatpur)-25 each, Gorakhpur & Bahraich-200 each, Bareilly, Varanasi & Sultanpur-500 each; **Bihar**- Purnea & Gaya -50 each, Patna & Bhagalpur- 500 each; **Madhya Pradesh**: Gwalior-200; **Gangetic West Bengal**: Diamond Harbour- 50, Malda-500; **Assam**: Tezpur, North Lakhimpur & Dibrugarh-50 each, Guwahati-500; **Andhra Pradesh**: Vijayawada- 200, **Rajasthan**: Ganganagar & Kota - 500 each.
- ❖ Yesterday, **cold day conditions** prevailed in many parts of Punjab, Haryana & Chandigarh; in some parts of East Uttar Pradesh and in isolated pockets of Uttarakhand, northwest Uttar Pradesh & northwest Rajasthan. **Severe cold day conditions** also observed in some parts of Punjab and in isolated pockets of Haryana, northwest Uttar Pradesh & northwest Rajasthan.
- ❖ **Minimum Temperature Departures (as on 12-01-2024)**: Minimum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Konkan & Goa; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Madhya Maharashtra, Vidarbha, Gujarat Region, Chhattisgarh and Odisha; **above normal (1.6°C to 3.0°C)** at many places over Coastal & South Interior Karnataka, Telangana, Coastal Andhra Pradesh & Yanam; at a few places over Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Assam & Meghalaya and Kerala & Mahe. They were **below normal (-1.6°C to -3.0°C)** at a few places over Haryana-Chandigarh-Delhi, at isolated places over Himachal Pradesh, Uttar Pradesh, Punjab, Rajasthan, Bihar, Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 1.4°C was reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 12-01-2024)**: Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably above normal (3.1°C to 5.0°C)** at many places over Saurashtra & Kutch and Konkan & Goa; at isolated places over Telangana; **above normal (1.6°C to 3.0°C)** at most places over Gujarat Region; at many places over Rajasthan and Chhattisgarh; at a few places over Madhya Pradesh, Madhya Maharashtra, North Interior Karnataka and Lakshadweep; at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at many places over Punjab and Haryana & Chandigarh; at a few places over Uttarakhand; at isolated places over West Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim; **appreciably below normal (-3.1°C to -5.0°C)** at most places over East Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Gangetic West Bengal; at isolated places over Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 36.2°C was reported at **Karwar (Coastal Karnataka)**.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ Conditions are becoming favourable for cessation of Northeast Monsoon rains over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka around 15th January, 2024.
- ❖ 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. 56°E to the north of Lat. 32°N.
- ❖ The **Cyclonic circulation** over Comorin area & adjoining Maldives area between 4.5 & 5.8 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 16th January, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 20th January, 2024)

- ❖ Shallow to Moderate fog very likely in isolated pockets over Gangetic West Bengal during next 2 days.
- ❖ Gradual fall by 2-3°C in minimum temperatures likely over many parts of Central and East India during next 2-3 days and no significant change thereafter.
- ❖ No significant change in minimum temperatures very likely over Northwest India during next 5 days.

Weather Outlook for subsequent 2 days

- ❖ Light to moderate rainfall at isolated places over East Madhya Pradesh and Odisha.
- ❖ Mainly dry weather likely to prevail over rest parts of the country.

Table-1

7 Days Rainfall Forecast

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

* Red colour warning does not mean "Red Alert", Red colour 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)

Fig. 1: Maximum Temperatures

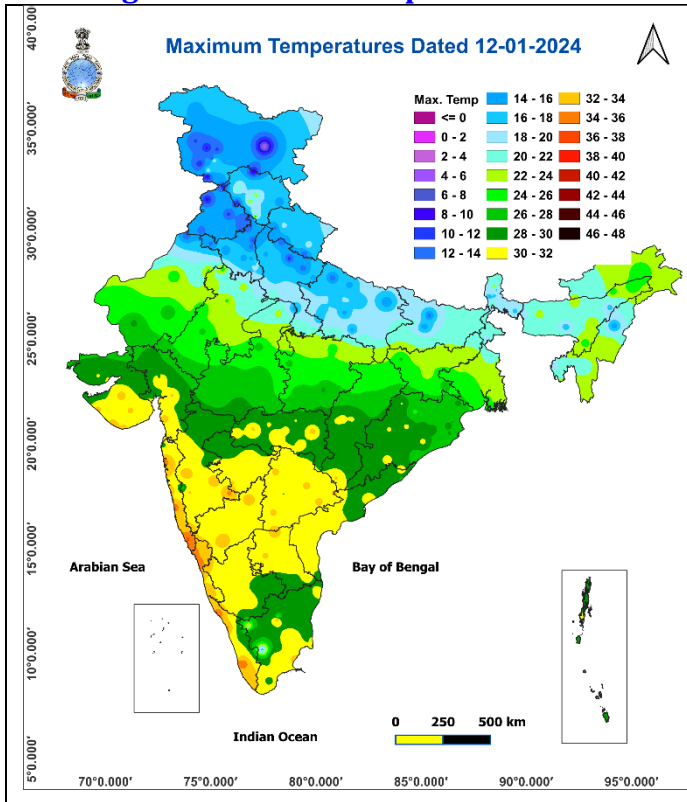


Fig. 2: Departure of Maximum Temperatures

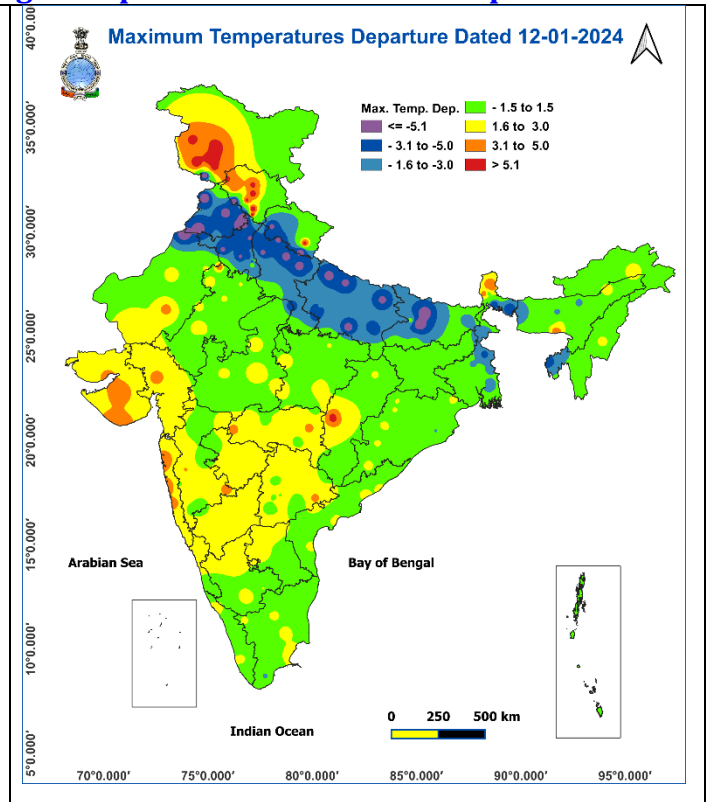


Fig. 3: Minimum Temperatures

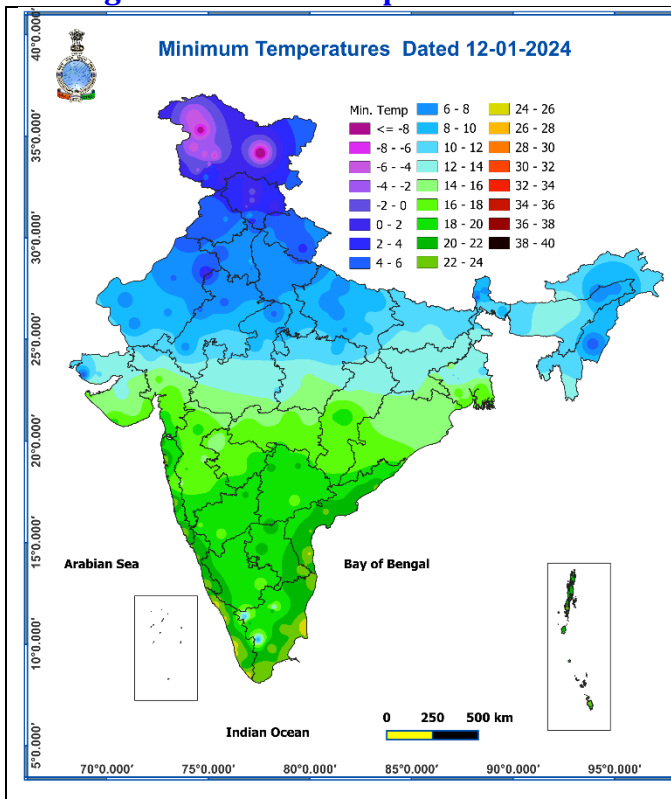


Fig. 4: Departure of Minimum Temperatures

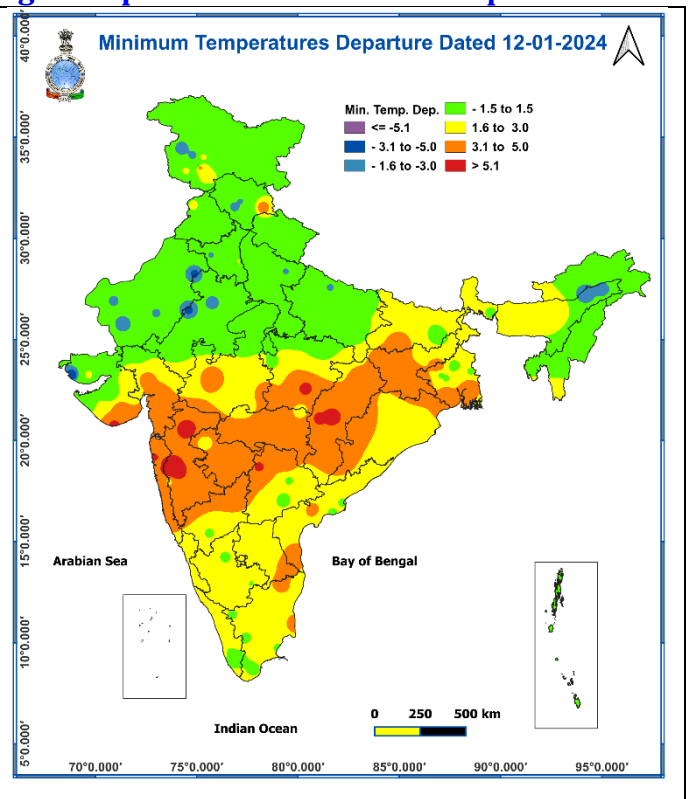
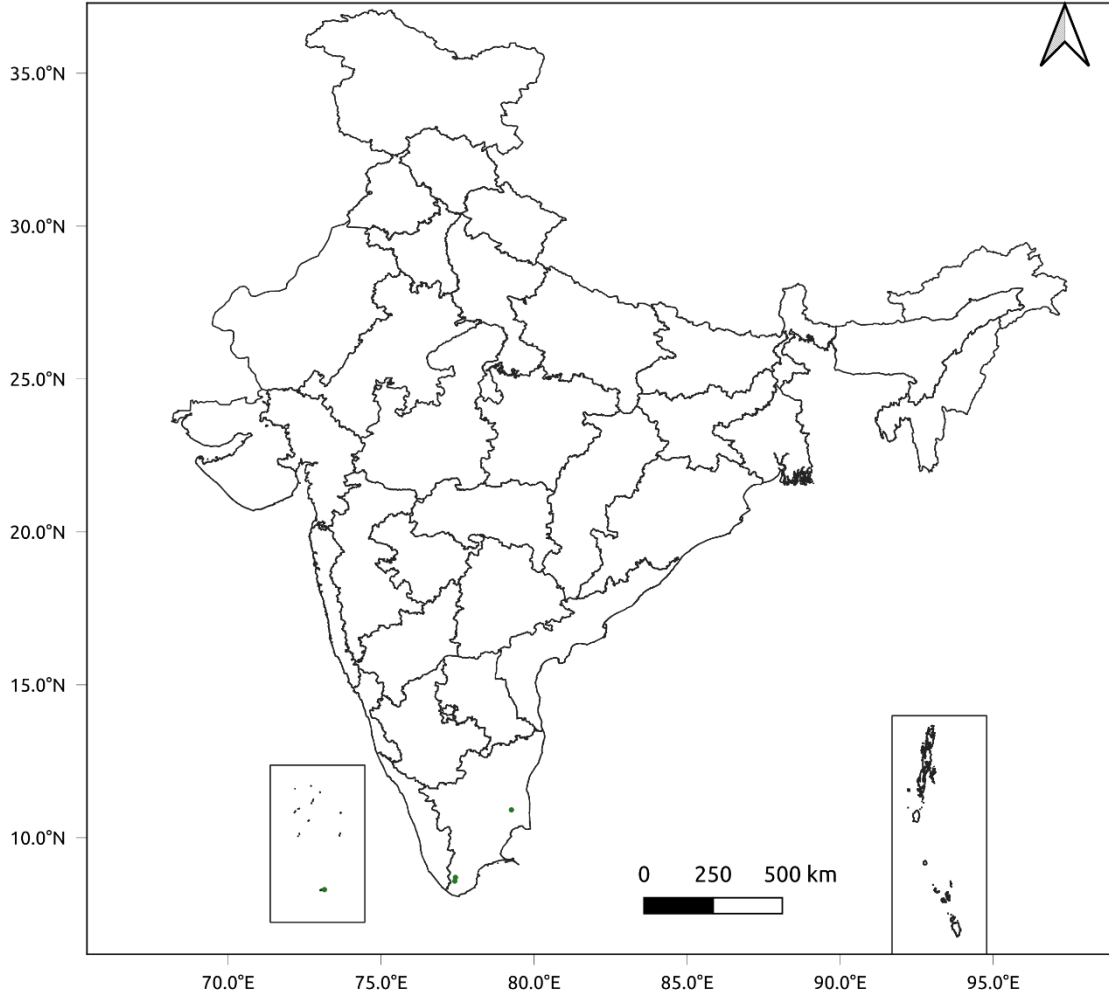


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

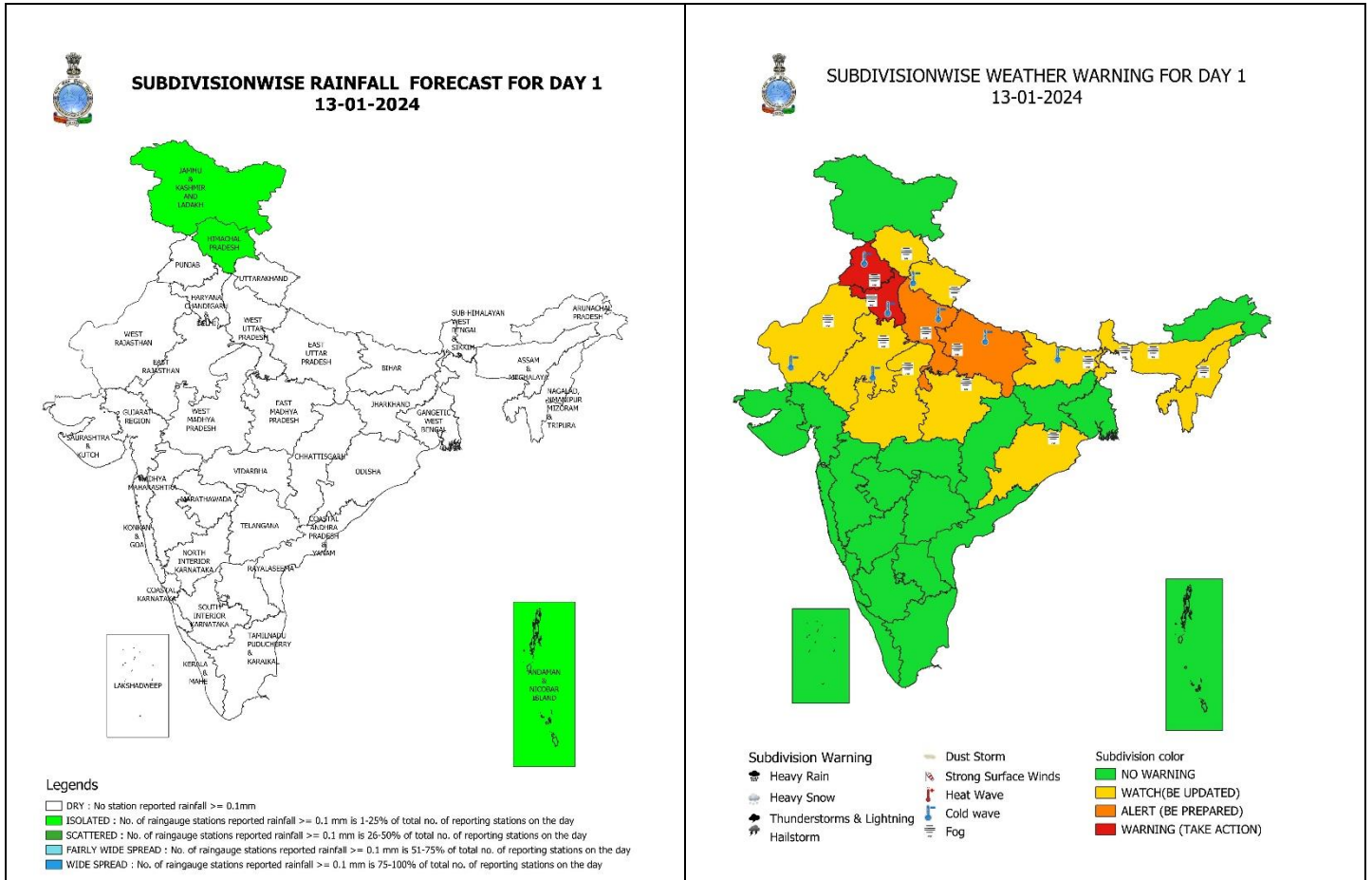


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 11-1-2024 to 0830 IST of 12-1-2024



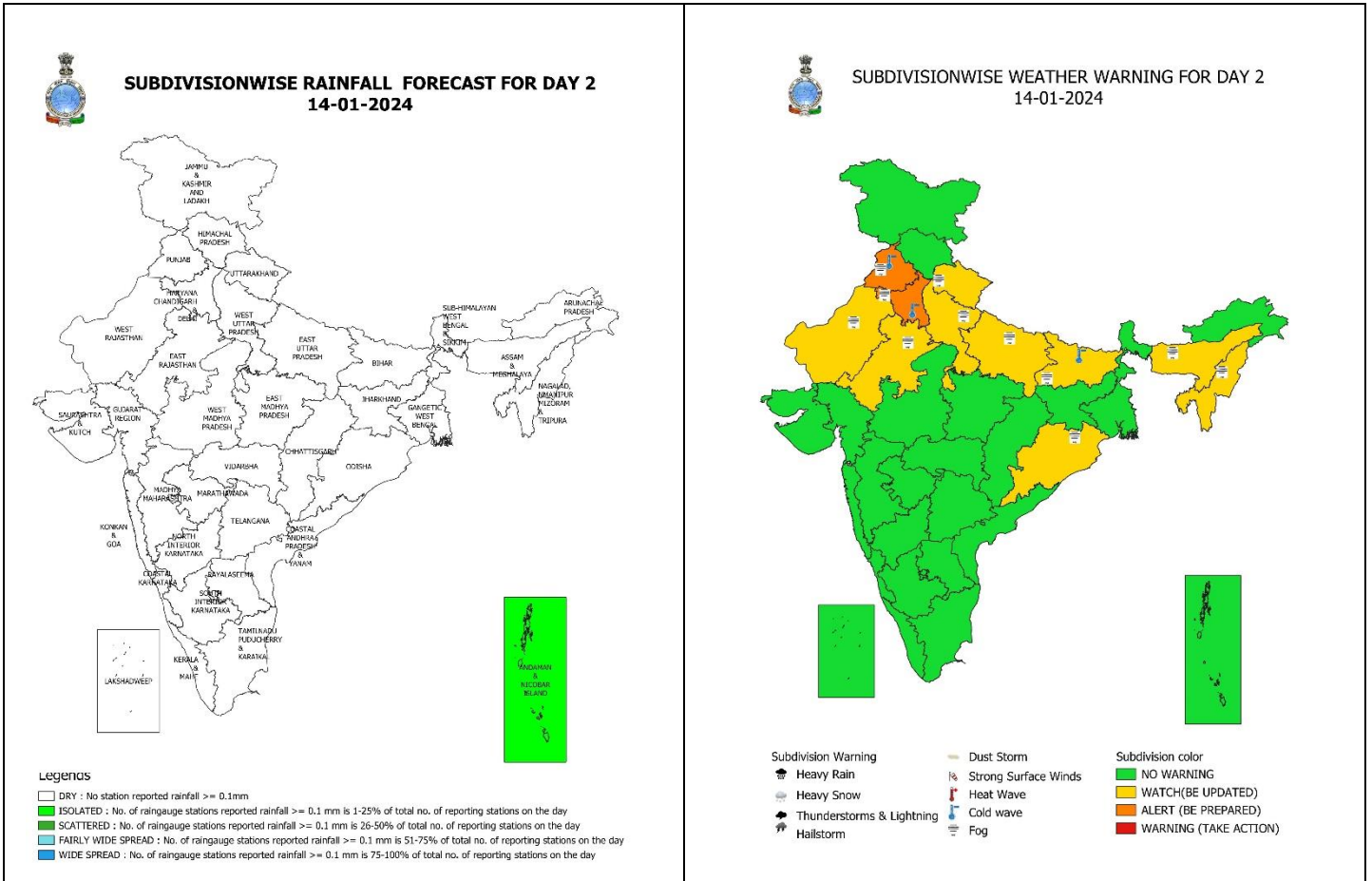
Legends

- 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)



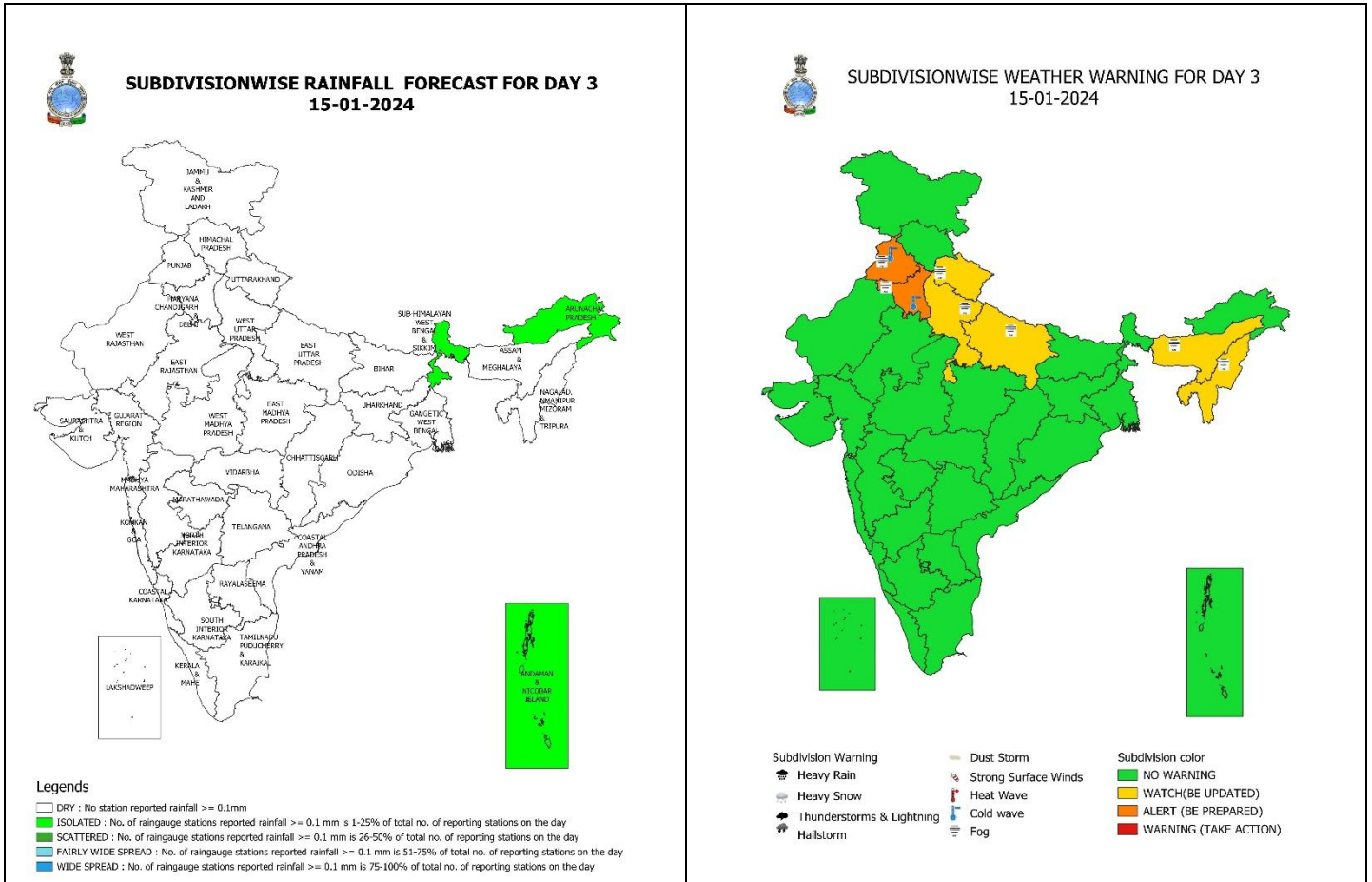
13 January (Day 1):

- ❖ **Dense to very dense fog** very likely in many parts over Punjab; in some parts over Haryana-Chandigarh-Delhi, Uttar Pradesh; **Dense fog** in isolated pockets over Himachal Pradesh, Uttarakhand, Northwest Rajasthan, north Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Cold day to severe cold day** conditions very likely in many parts over Punjab, Haryana and Chandigarh; **Cold day** conditions in isolated pockets over Uttarakhand, Uttar Pradesh and Bihar.
- ❖ **Cold wave to severe cold wave** conditions very likely in some parts over Punjab and Haryana-Chandigarh-Delhi and **cold wave** conditions in isolated pockets over Uttar Pradesh, Rajasthan and Bihar.
- ❖ **Ground frost** conditions very likely in isolated pockets over Uttarakhand, Punjab, Haryana-Chandigarh and Rajasthan.
- ❖ **Squally weather with wind speed 40-45 kmph gusting to 55 kmph** very likely to prevail over southern parts of Southwest and adjoining Southeast Arabian Sea. Fishermen are advised not to venture into these areas.



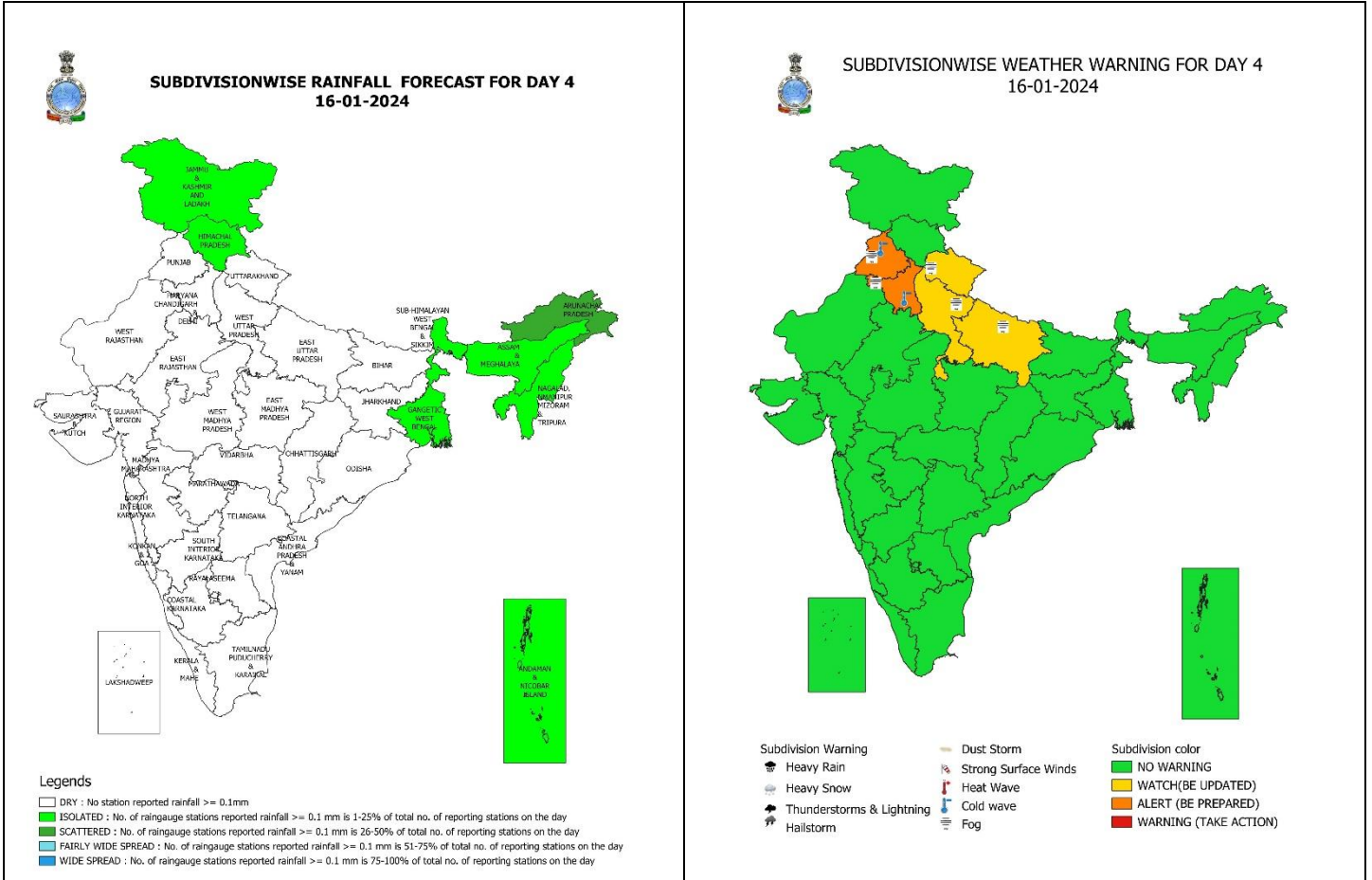
14 January (Day 2):

- ❖ **Dense to very dense fog** very likely in some parts over Punjab, Haryana-Chandigarh-Delhi, in isolated pockets over Uttar Pradesh; **dense fog** in isolated pockets over Uttarakhand, northwest Rajasthan, Bihar, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Cold day** conditions very likely in some parts over Punjab, Haryana and Chandigarh.
- ❖ **Cold wave** conditions very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi and Bihar.



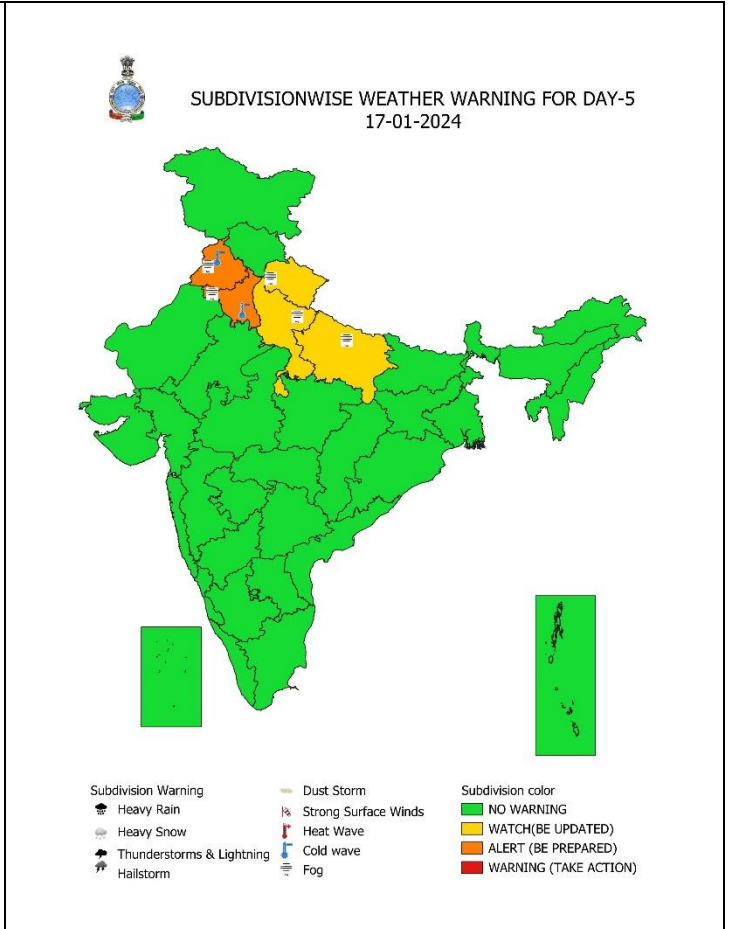
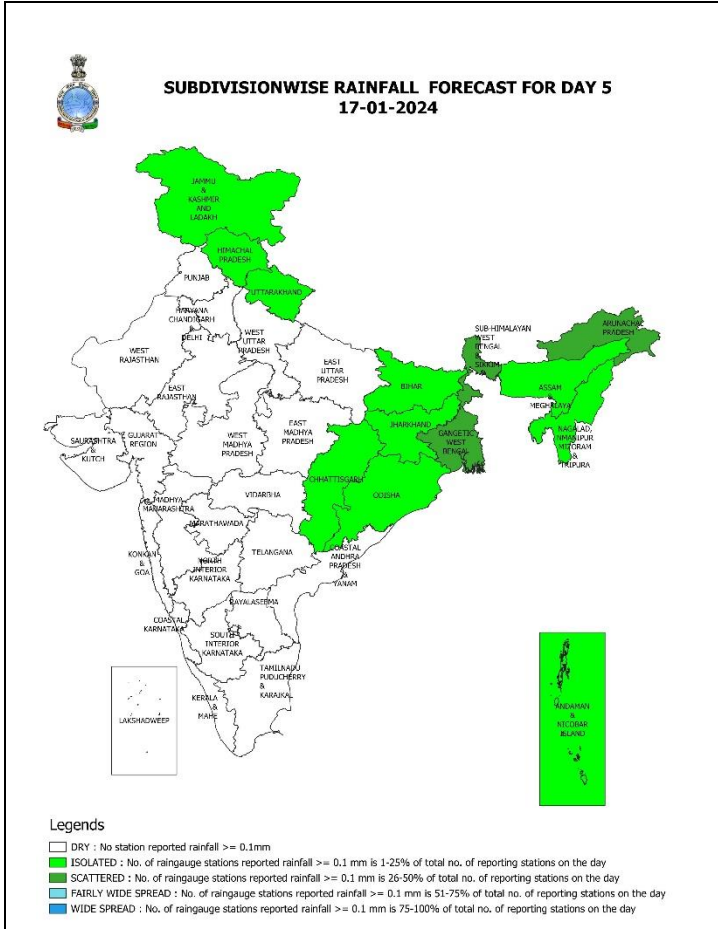
15 January (Day 3):

- ❖ **Dense to very dense fog** likely in some parts over Punjab, Haryana-Chandigarh-Delhi; in isolated pockets over Uttar Pradesh; **dense fog** in isolated pockets over Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Cold day** conditions likely in some parts over Punjab, Haryana and Chandigarh.



16 January (Day 4):

- ❖ **Dense to very dense fog** likely in some parts over Punjab, Haryana-Chandigarh-Delhi; in isolated pockets over Uttar Pradesh; **dense fog** in isolated pockets over Uttarakhand
- ❖ **Cold day** conditions likely in isolated pockets over Punjab, Haryana and Chandigarh.

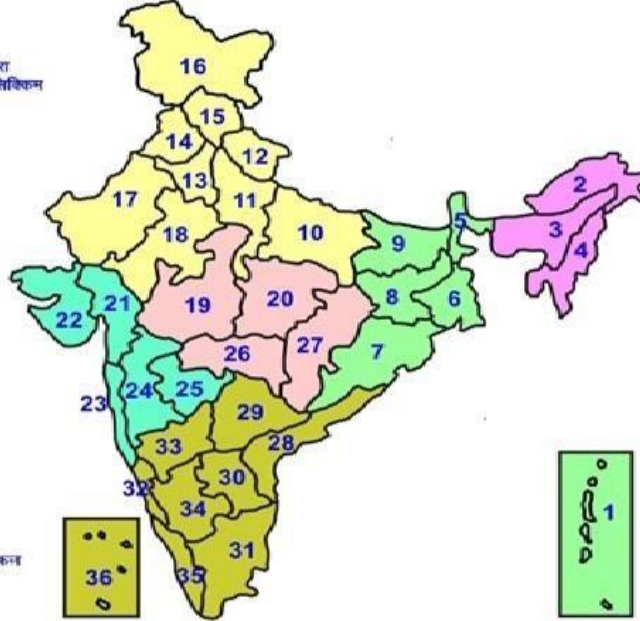


17 January (Day 5):

- ❖ **Dense to very dense fog** likely in some parts over Punjab, Haryana-Chandigarh-Delhi; in isolated pockets over Uttar Pradesh; **dense fog** in isolated pockets over Uttarakhand
- ❖ **Cold day** conditions likely in isolated pockets over Punjab, Haryana and Chandigarh.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीगढ़ 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 महाराष्ट्र
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 दक्षिण कर्नाटक
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 उत्तरी 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. Odisha
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. Tamilnada, 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

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



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



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 $\geq 37^{\circ}\text{C}$



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 $> 6.4^{\circ}\text{C}$.



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 $\leq 15^{\circ}\text{C}$



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 $\leq -6.5^{\circ}\text{C}$



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



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



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



Ice deposits on ground

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



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



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



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 colour warning does not mean "Red Alert", Red colour 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)