



Tuesday, December 26, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

- **Minimum temperatures** in the range of 6-10°C prevailing over most parts of Punjab, Haryana- Chandigarh-Delhi & West Uttar Pradesh and 11-12°C over most parts of Rajasthan, East Uttar Pradesh, north Madhya Pradesh and some parts of Chhattisgarh & Jharkhand. These are 2-3°C above normal over some parts of Punjab, West Rajasthan, Uttar Pradesh, North Odisha and Madhya Pradesh; over many parts of Bihar, Jharkhand, Gangetic West Bengal, Gujarat and northeast India.

Weather Systems and Forecast & Warnings during next 5 days:

Dense fog warning:

- **Dense to very dense fog** conditions very likely to continue in early hours/morning hours in some pockets of Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh during 26th-28th and over Rajasthan & north Madhya Pradesh on 26th & 27th and over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26th December.
- **Dense Fog** conditions very likely to continue in early hours/morning hours in isolated pockets over Odisha on 26th & 27th; Uttarakhand during 26th -28th; Jammu-Kashmir on 27th & 28th; Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh on 29th & 30th and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 26th-30th December.

Rainfall Forecast:

- Under the influence of strong Northeasterly winds, a fresh spell of light to moderate rainfall likely over Coastal Tamil Nadu from 30th December 2023 to 01st January 2024.
- A fresh Western Disturbance is likely to affect Northwest India from 29th December. Under the influence of its interaction with lower level easterly winds, it is likely to cause a Wet Spell over Northwest & adjoining Central India during 30th December-02nd January 2024.
- Light to moderate rainfall at isolated places very likely over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep during next 5 days with isolated heavy rainfall over Tamil Nadu, Puducherry & Karaikal on 30th December.

Minimum Temperatures Forecast:

- No significant change in Minimum Temperatures likely over most parts of the country during next 2-3 days.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Tamil Nadu, Puducherry & Karaikal and Assam & Meghalaya.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm):
NIL
- ❖ **Fog Observed (at 0530 hours IST of today):** **Very dense fog** in isolated pockets of Punjab, Haryana, Delhi, East Uttar Pradesh, West Madhya Pradesh and Odisha; **moderate fog** in isolated pockets of West Uttar Pradesh and **Shallow fog** in isolated pockets of Chandigarh, Bihar, Coastal Andhra Pradesh and Tripura.
- ❖ **Visibility Recorded (at 0530 hours IST of today) (500 meters or less):** Punjab: Amritsar & Patiala -0 each; Haryana: Ambala-0; Chandigarh-500; Delhi: Palam-0, Safdarjung-200; West Uttar Pradesh: Jhansi-200; East Uttar Pradesh: Varanasi & Prayagraj-0 each, Lucknow-200; West Madhya Pradesh: Guna-0, Gwalior-500; Odisha: Paradip-0, Bhubaneswar-500; Bihar: Purnea-500; Coastal Andhra Pradesh: Vijaywada-500; Tripura: Agartala & Kailashahar-500 each.
- ❖ **Minimum Temperature Departures (as on 25-12-2023):** Minimum temperatures were **markedly above normal (5.1°C or more)** at a few places over Nagaland, Manipur, Mizoram & Tripura; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at many places over Jharkhand, Bihar, Arunachal Pradesh, Gangetic West Bengal, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, East Uttar Pradesh, Punjab, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe; at a few places over Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Saurashtra & Kutch, Madhya Pradesh; at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa, Haryana-Chandigarh-Delhi. They were **below normal (-1.6°C to -3.0°C)** at a few places over Interior Karnataka and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 5.8°C was reported at **Sikar & Alwar (East Rajasthan)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-12-2023):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Bihar; **appreciably above normal (3.1°C to 5.0°C)** at most places over Himachal Pradesh; **at many places over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at a few places over** Uttarakhand, East Uttar Pradesh and Bihar; **above normal (1.6°C to 3.0°C)** at most places over Haryana-Chandigarh-Delhi, Rajasthan, Saurashtra & Kutch, Konkan & Goa, Jharkhand, Arunachal Pradesh and West Uttar Pradesh; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim; at a few places over Madhya Pradesh, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and at isolated places over Madhya Maharashtra, Vidarbha, Odisha, Gangetic West Bengal, Coastal Karnataka, South Interior Karnataka, Rayalaseema and Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 36.5°C was reported at **Honavar (Coastal Karnataka)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Cyclonic Circulation** over east Bangladesh & neighbourhood extending upto 3.1 km above mean sea level persists.
- ❖ The Western Disturbance in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 58°E to the north of Lat. 30°N.

Weather Forecast for next 7 days (Upto 0830 hours IST of 02nd January, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Shallow to Moderate fog very likely in isolated pockets over Bihar and Gangetic West Bengal during next 2 days in the morning hours.
- ❖ No significant change in Minimum Temperatures likely over most parts of the country during next 2-3 days.

Weather Outlook for subsequent 2 days

- ❖ Scattered to fairly widespread rainfall light to moderate rainfall likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Andaman & Nicobar Islands. Isolated to scattered light rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Rayalaseema and Karnataka.
- ❖ Mainly dry weather likely to prevail over rest parts of the country.



Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	01-Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
12	UTTARAKHAND	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	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	ISOL
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
35	KERALA & MAHE	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	FWS	FWS	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

* 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

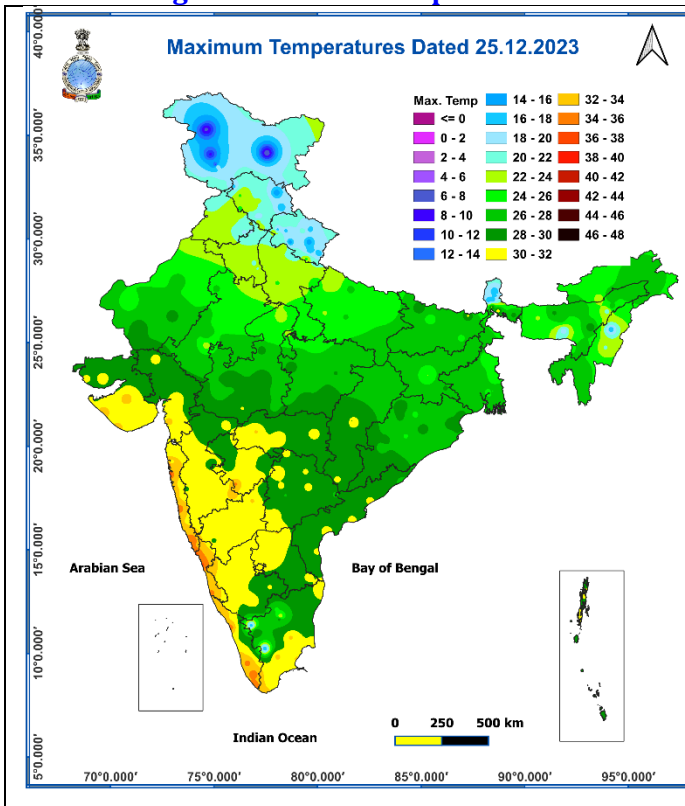


Fig. 2: Departure of Maximum Temperatures

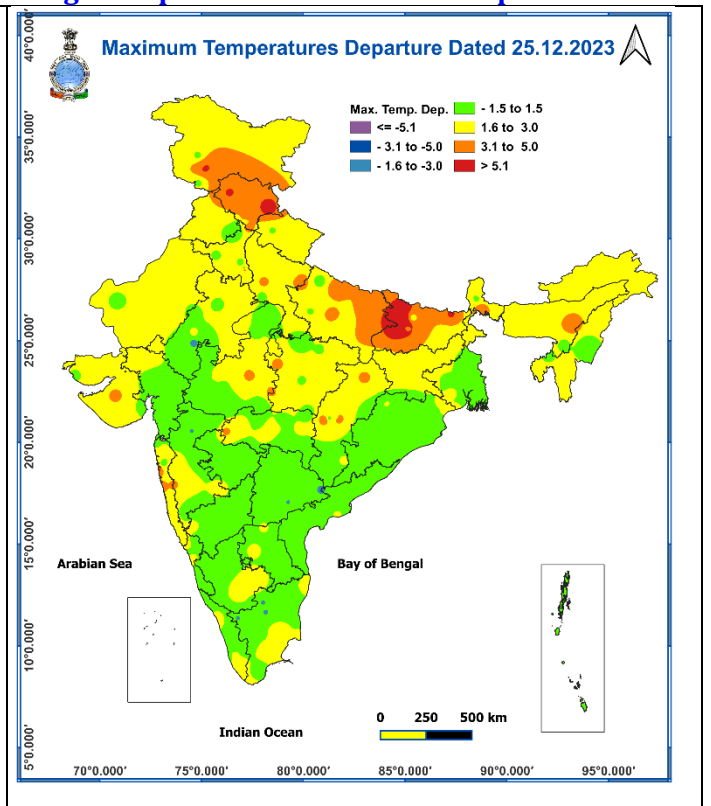


Fig. 3: Minimum Temperatures

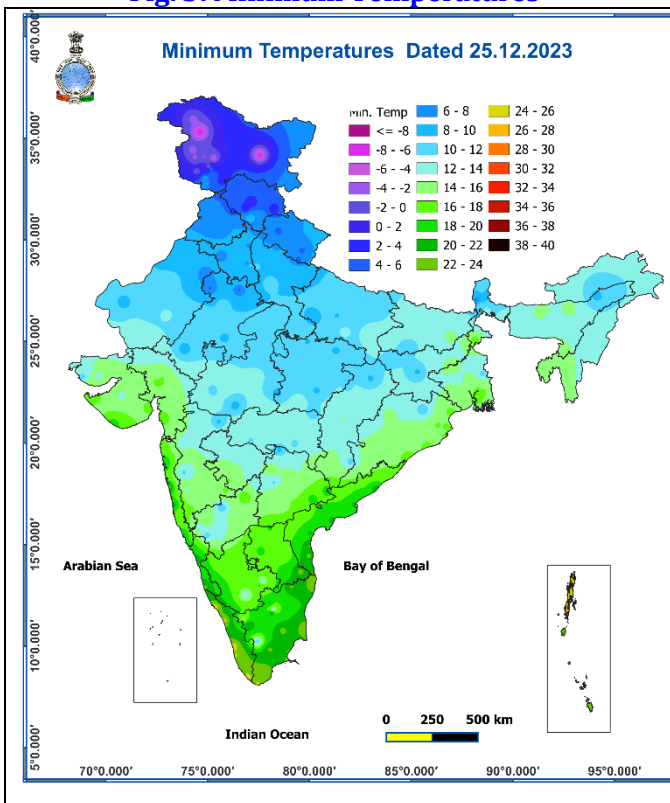


Fig. 4: Departure of Minimum Temperatures

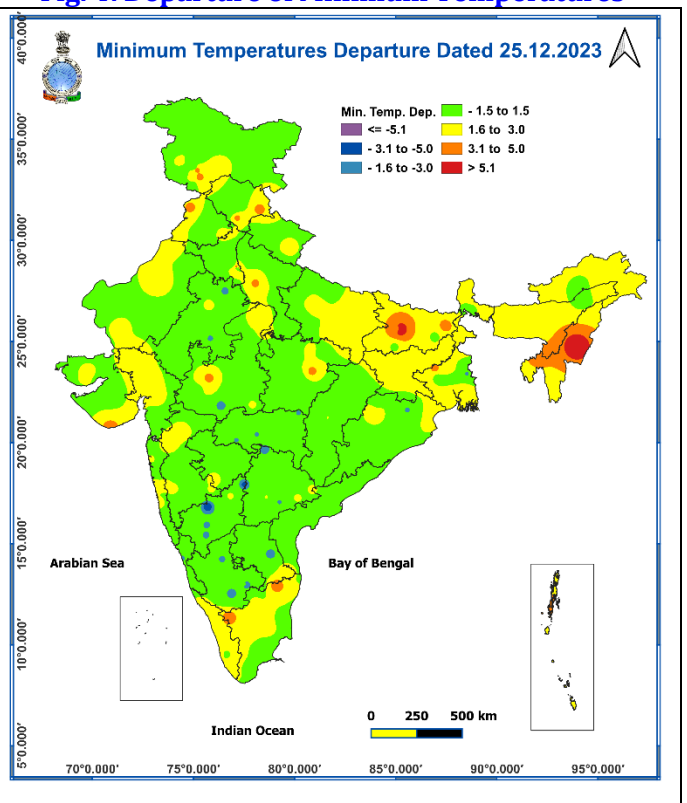
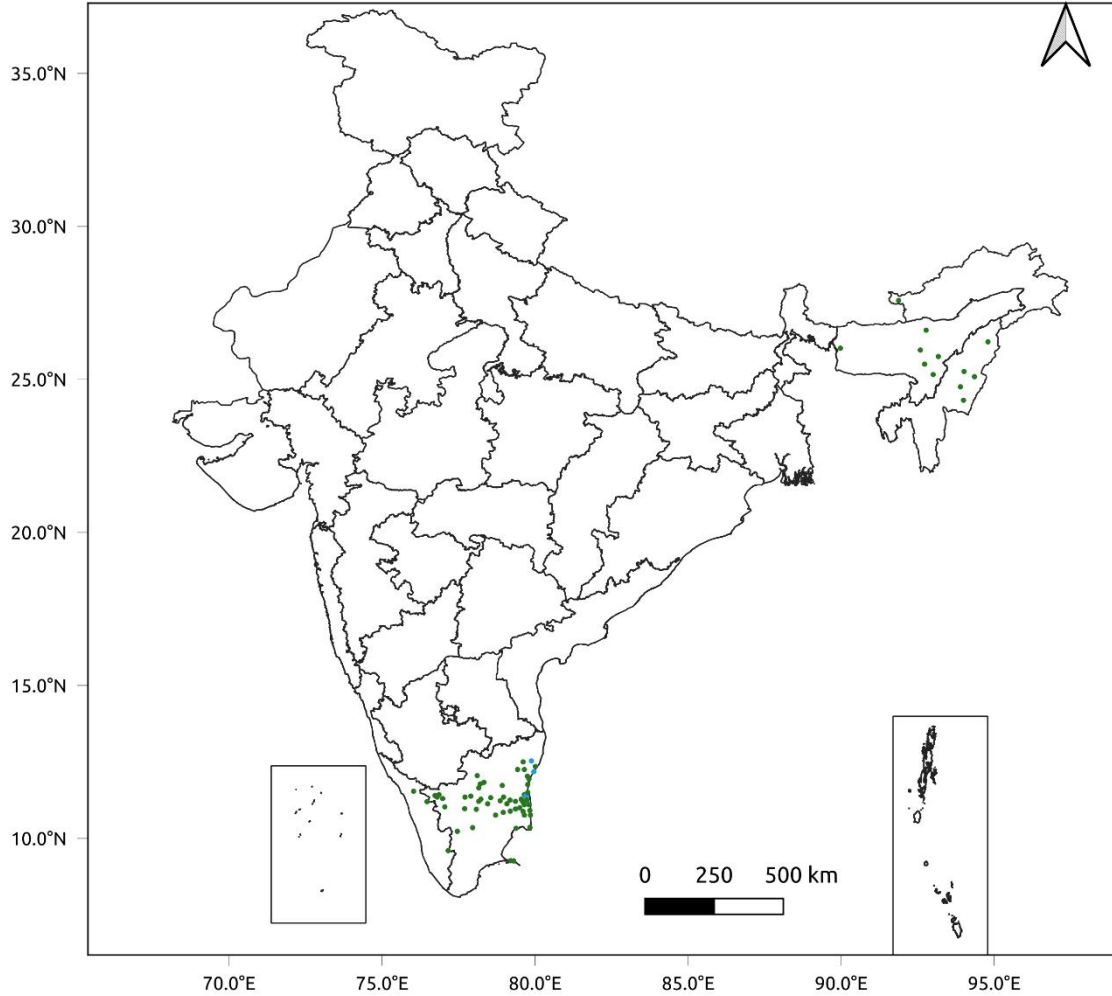


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

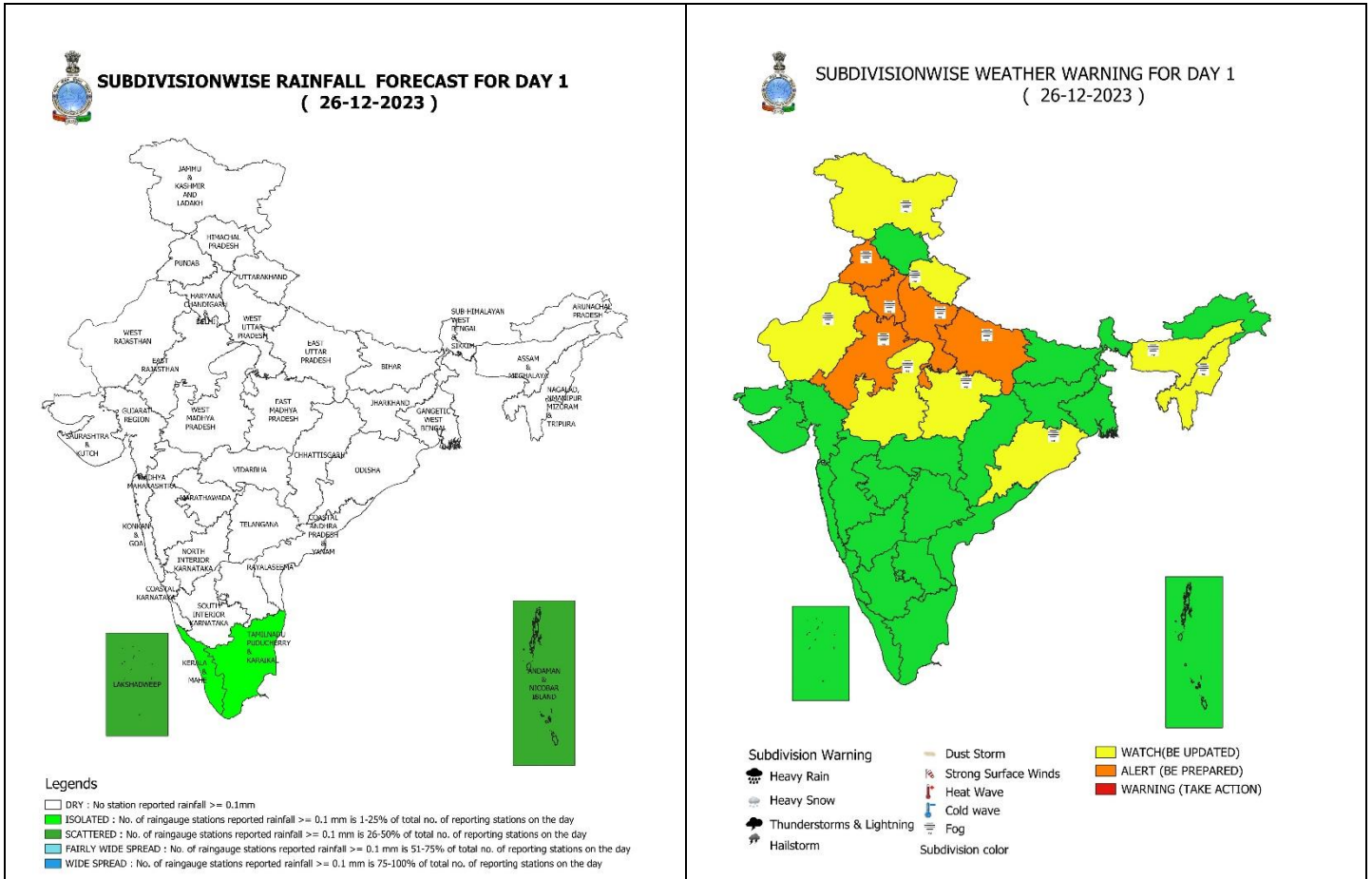


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 24-12-2023 to 0830 IST of 25-12-2023



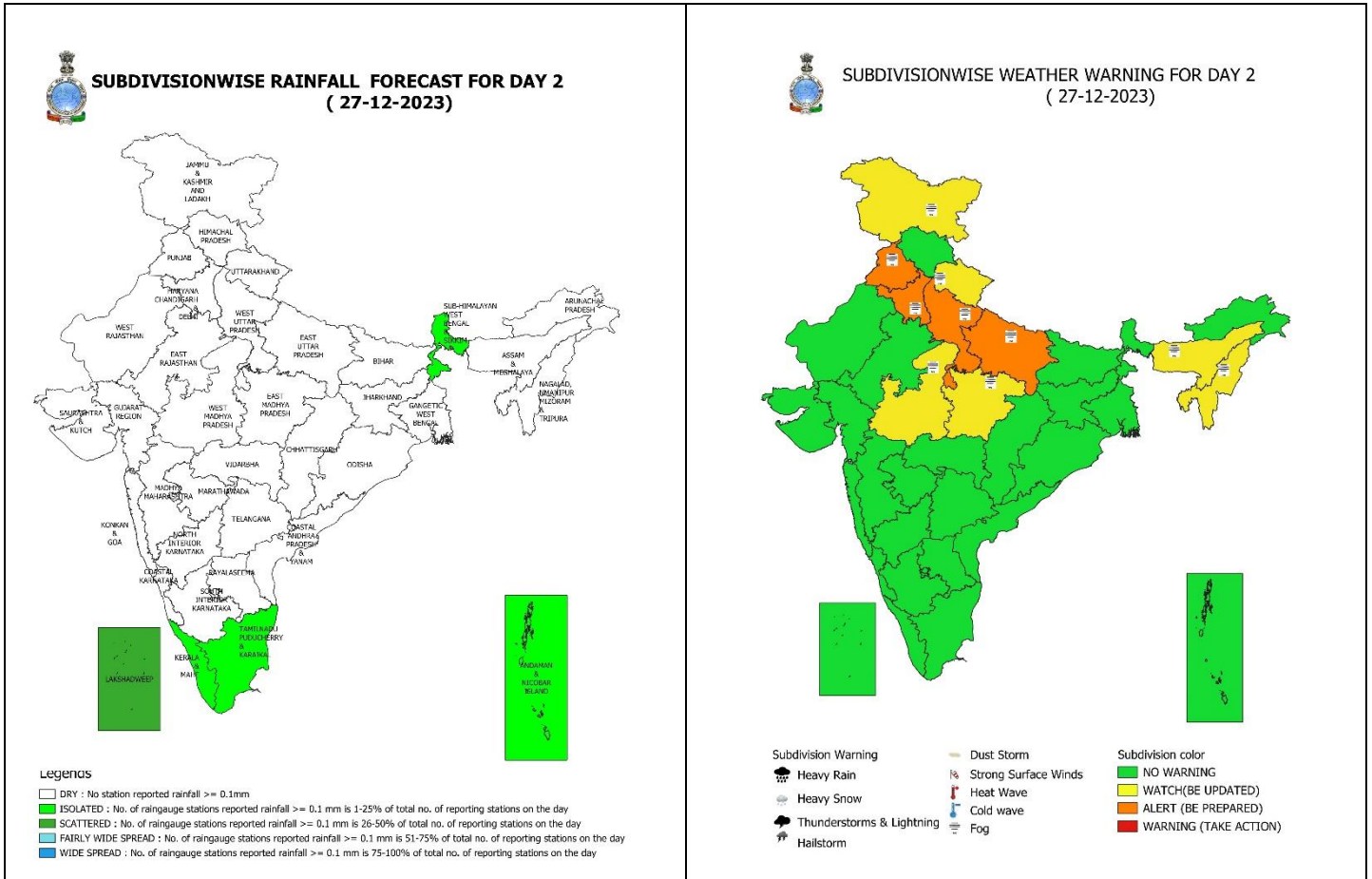
Legends

- 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 December (Day 1):

- ❖ **Dense to very dense fog** very likely in some pockets over Punjab, Haryana-Chandigarh-Delhi; **Dense to very dense fog** in isolated pockets over Uttar Pradesh, Rajasthan, Madhya Pradesh; **Dense fog** in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Strong Wind** with wind speed 45-55 kmph gusting to 65 kmph very likely to prevail over Comorin area. Fishermen are advised not to venture into these areas.

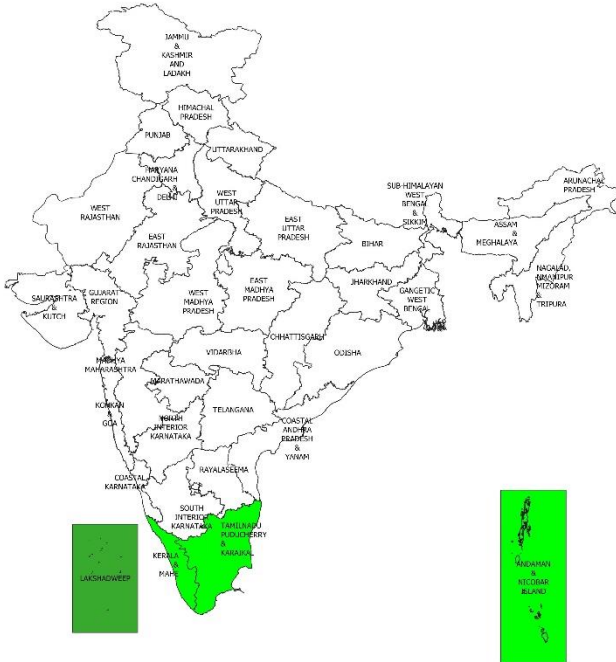


27 December (Day 2):

- ❖ **Dense to very dense fog** very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and **Dense fog** in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Squally Weather** with wind speed 40-45 kmph gusting to 55 kmph likely to prevail over Comorin area. Fishermen are advised not to venture into these areas.



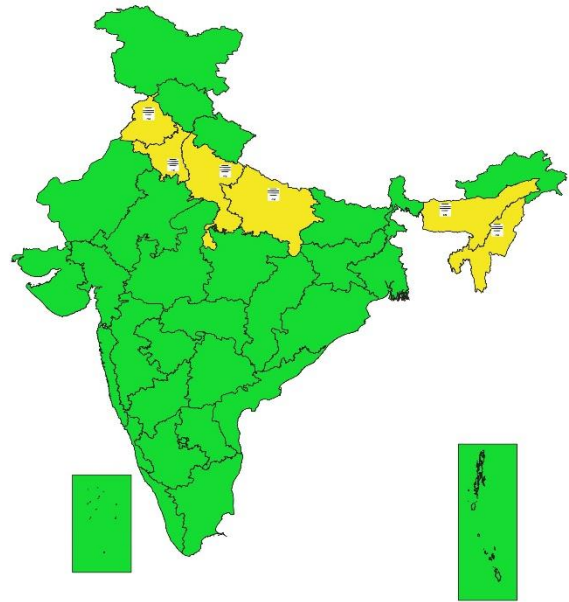
**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 3
(28-12-2023)**



Legends
 □ DRY : No station reported rainfall ≥ 0.1 mm
 □ ISOLATED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 1-25% of total no. of reporting stations on the day
 □ SCATTERED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 26-50% of total no. of reporting stations on the day
 □ FAIRLY WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 51-75% of total no. of reporting stations on the day
 □ WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 75-100% of total no. of reporting stations on the day



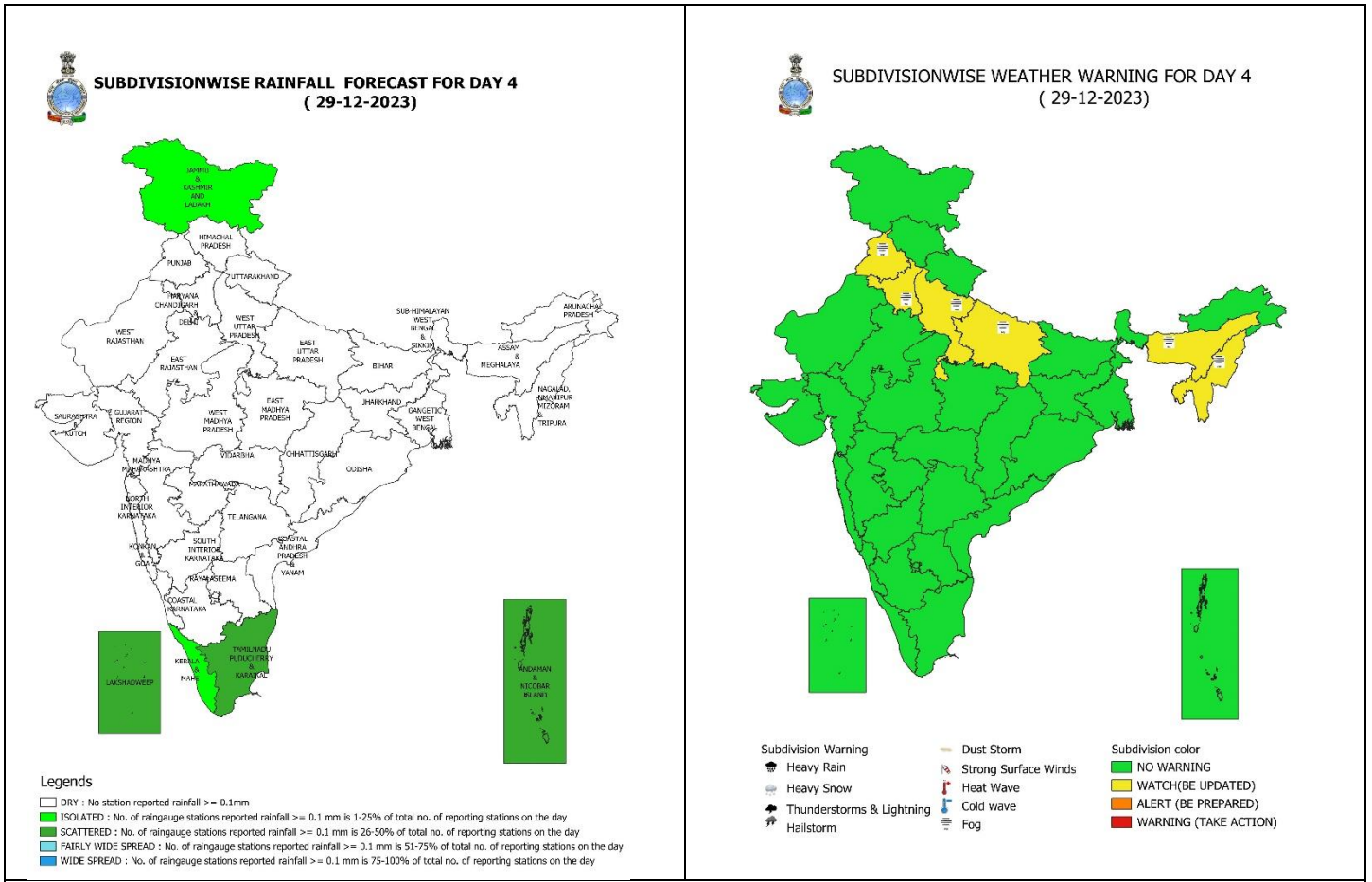
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(28-12-2023)**



Subdivision Warning
 ☁ Heavy Rain
 ❄ Heavy Snow
 ⚡ Thunderstorms & Lightning
 🌨 Hailstorm
 🌪 Dust Storm
 🌪 Strong Surface Winds
 🌡 Heat Wave
 🌊 Cold wave
 🌫 Fog
Subdivision color
 🟢 NO WARNING
 🟡 WATCH(BE UPDATED)
 🟠 ALERT (BE PREPARED)
 🔴 WARNING (TAKE ACTION)

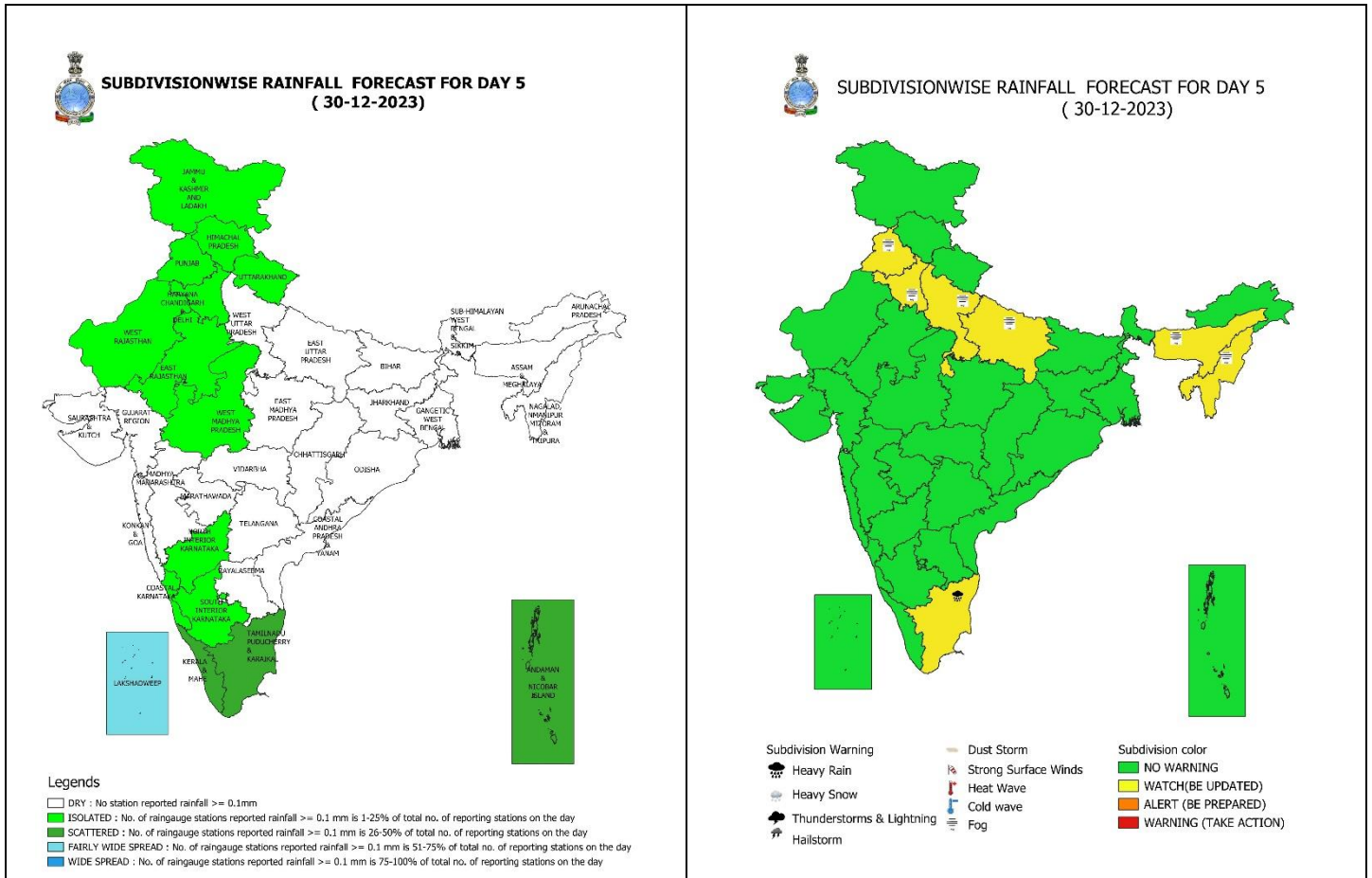
28 December (Day 3):

- ❖ **Dense fog** very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya.
- ❖ **Squally Weather** with wind speed 40-45 kmph gusting to 55 kmph likely to prevail over Comorin area and central part of South Bay of Bengal. Fishermen are advised not to venture into these areas.



29 December (Day 4):

- ❖ **Dense fog** likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya.
- ❖ **Squally Weather** with wind speed 40-45 kmph gusting to 55 kmph likely to prevail over Comorin area. Fishermen are advised not to venture into these areas.

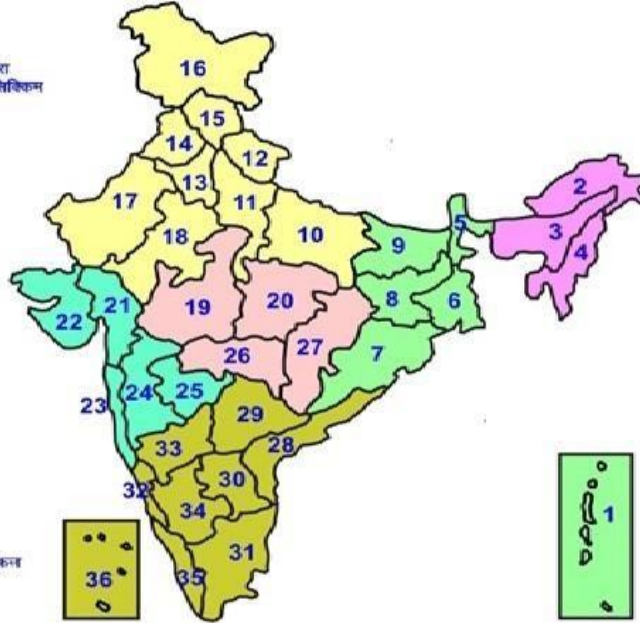


30 December (Day 5):

- ❖ **Dense fog** likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya.
- ❖ **Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally Weather** with wind speed 40-45 kmph gusting to 55 kmph likely to prevail over Comorin area. 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 मीज़ोरम 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
- 22 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 चण्डीगढ़
- 31 रामलक्ष्मी
- 32 तमिलनाडु, पुदुचेरी एवं कराईकल
- 33 उत्तरी कर्नाटक
- 34 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. 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

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 < 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)