

2025-12-21

Time of Issue: 15:11:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

- Scattered to widespread light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and isolated to scattered rainfall/snowfall over Himachal Pradesh & Uttarakhand during next 3 days.
- **Heavy rainfall/snowfall accompanied with snowstorm** with wind speed reaching 50-60 kmph gusting to 70 kmph along with reduced visibility (<400m) due to falling snow likely at isolated places over higher reaches of Jammu-Kashmir-Ladakh, northeast Himachal Pradesh during next 24 hours.
- **Isolated Thunderstorm, lightning, with Gusty Wind speed (30-40 kmph)** likely to prevail over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 22nd and with Thunderstorm, lightning over Himachal Pradesh on 21st December.

Forecast of minimum temperatures:

- No significant change in minimum temperature very likely over Northwest India except Uttar Pradesh for next 2 days and thereafter gradual fall in minimum temperature by 3-5°C for subsequent 3 days.
- Gradual rise in minimum temperatures by 2-3°C over Uttar Pradesh for next 3 days and thereafter fall by 3-5 °C during subsequent 4 days.
- No significant change in minimum temperature very likely over East India for next 3 days and thereafter gradual fall in minimum temperature by 2-3°C for subsequent 4 days.
- Gradual rise in minimum temperatures by 2°C over Central for next 2 days and thereafter fall by 2-3 °C during subsequent 4 days.
- Gradual rise in minimum temperatures by 2-3°C over Maharashtra for next 2 days and thereafter no significant change in minimum temperatures.
- No significant change in minimum temperatures over Gujarat Region during next 2 days and gradual fall by 2-3°C during subsequent 3 days and thereafter no significant change in minimum temperatures.
- No significant change in minimum temperature over rest parts of the country during next 7days.

Dense Fog & Cold wave Warnings:

- **Dense to very dense fog conditions** during night/morning hours very likely East Uttar Pradesh till 23rd, Punjab, Haryana Chandigarh during 25th-28th, West Uttar Pradesh during 26th-28th with **Dense fog conditions** during night/morning hours very likely in isolated pockets of Punjab, Haryana Chandigarh, Uttar Pradesh till 22nd and during 24th-28th December.
- **Dense fog conditions** during night/morning hours very likely in isolated/some parts of Bihar till 24th and over Himachal Pradesh, Uttarakhand till 26th December.
- **Dense fog conditions** during night/morning hours very likely in isolated pockets of northeast India till morning hours of 24th; north Rajasthan, West Bengal & Sikkim till 22nd, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha till 23rd December.
- **Cold wave conditions** very likely in isolated pockets of North Interior Karnataka and Telangana on 22nd & 23rd December.
- **Cold day conditions** very likely in isolated pockets of Uttarakhand, Jharkhand on 22nd; Punjab, Haryana Chandigarh, Bihar, Uttar Pradesh on 22nd & 23rd December.

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Main Weather Observations:

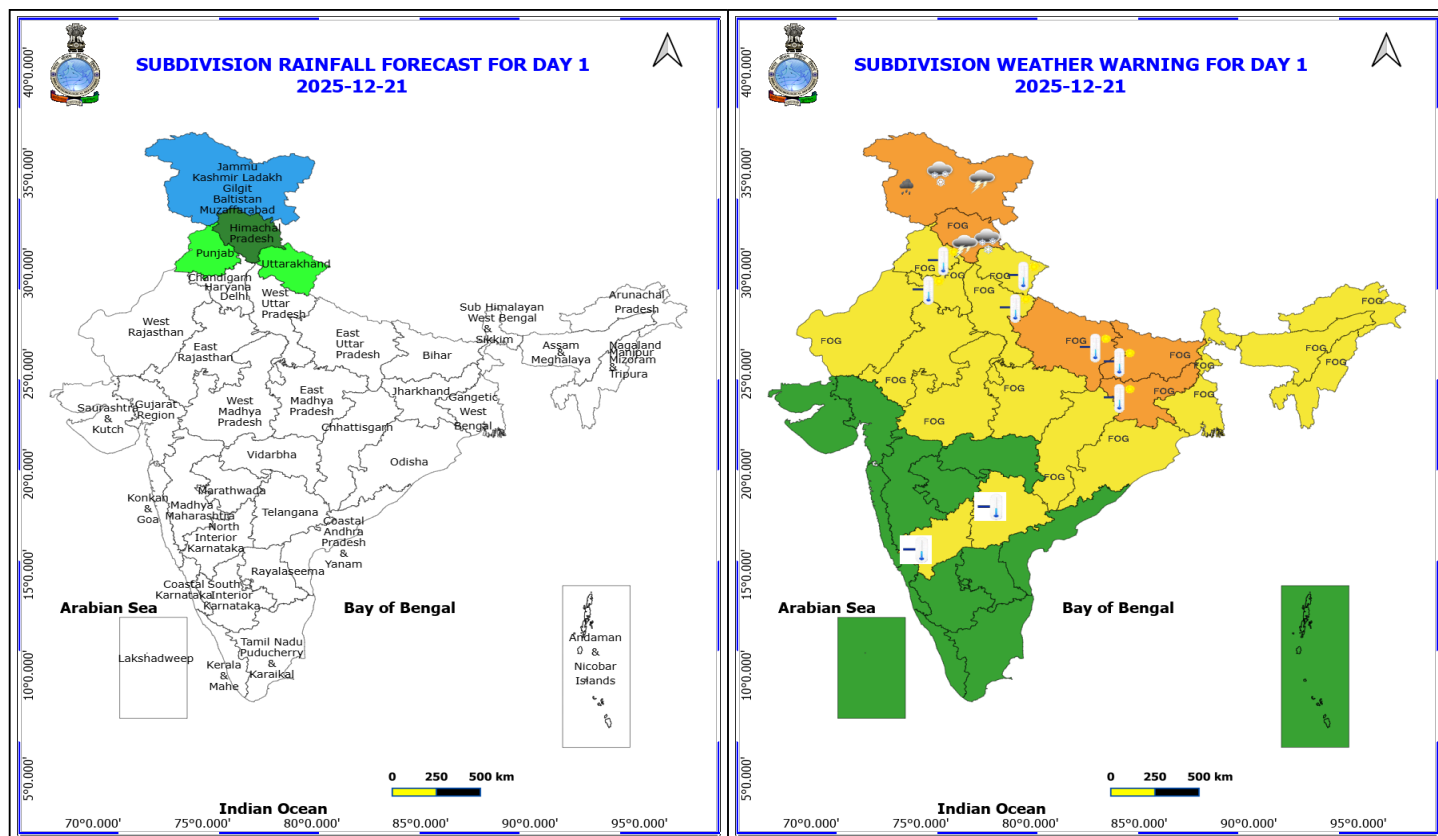
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad**: Nowgam (dist Kupwara) 1.
- ❖ **Fog Condition Observed (at 0830 hours of today)**: **Dense to very Dense fog** prevailed in some parts of Uttar Pradesh; in isolated pockets of interior Odisha, Madhya Pradesh; **dense fog**: reported in isolated pockets of Assam & Meghalaya, Sub-Himalayan West Bengal, Bihar, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Northwest Rajasthan, North Madhya Pradesh.
- ❖ **Visibility reported (at 0830 hours of today)**: **West Uttar Pradesh**: Agra(Iaf) & Aligarh Ams-00 Each; **East Uttar Pradesh**: Barabanki-00, Bahraich-50; Kanpur City-50, Shrawasti(Ap), Ayodhya, Fursatganj-100 Each; **East Madhya Pradesh**: Rewa Satna, Khajuraho 00; **West Madhya Pradesh**: **Datia, Gwalior 00m each**; **Odisha**: Rourkela (25); **Assam & Meghalaya**: Barapani=50, Jorhat=100; **Sub-Himalayan West Bengal**: Coochbehar (100); **Bihar**: Gaya (50); **Himachal Pradesh**: Bilaspur 50, And Una 100; **Uttarakhand**: Pantnagar (100), Khatima, Haridwar, Kashipur; **Punjab**: Amritsar(50m); Halwara; Gurdaspur; **Haryana**: Hisar(100), Sirsa; West Rajasthan: Ganganagar - 100 .
 - **Cold day to severe cold day conditions** observed in some pockets of Uttar Pradesh, in isolated pockets of Uttarakhand; **cold day conditions** in isolated pockets of Punjab, Haryana, Delhi and Madhya Pradesh.
 - **Cold wave to severe cold wave conditions** observed in isolated pockets of North Interior Karnataka and **cold wave conditions** in isolated pockets of Telangana.
- ❖ **Minimum Temperature Departures (as on 21-12-2025)**: **markedly below normal (<-5.0°C)** at a few places over North Interior Karnataka; **appreciably below normal (-5.0°C to -3.1°C)** at a few places over Tamil Nadu, Madhya Maharashtra, Telangana; at isolated places over West Madhya Pradesh, Uttar Pradesh, Chhattisgarh, Odisha and **below normal (-1.6°C to -3.0°C)** at isolated places over Gangetic West Bengal, Assam & Meghalaya, South Interior Karnataka. **The lowest minimum temperature of 4.6°C was observed over Bareilly (IAF) (West Uttar Pradesh) and Ambikapur (Chhattisgarh) over the plains of India.**
- ❖ **Maximum Temperature Departures (as on 20-12-2025)**: **below normal(-1.6°C to -3.0°C)** at few places over Punjab. **appreciably below normal(-5.0°C to -3.1°C)** at isolated places over Bihar. **The highest maximum temperature** of 36.3°C is reported at RAJKOT (A) (GUJARAT).

Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** lay as a trough in middle and upper tropospheric westerlies levels with its axis at 5.8 km above mean sea level roughly along Long. 62°E to the north of Lat. 27°N.
- **Subtropical westerly Jet Stream** with core winds of the order of 120 knots at 12.6 km above mean sea level continues to prevail over Northwest India.
- A **cyclonic circulation** lay over Equatorial Indian ocean & adjoining southwest Bay of Bengal at 1.5 km above mean sea level.

Weather Outlook for subsequent 3 days

- Isolated to Scattered rainfall activity over Western Himalayana Region, Tamil Nadu and Nicobar Islands.



21 December (Day 1)

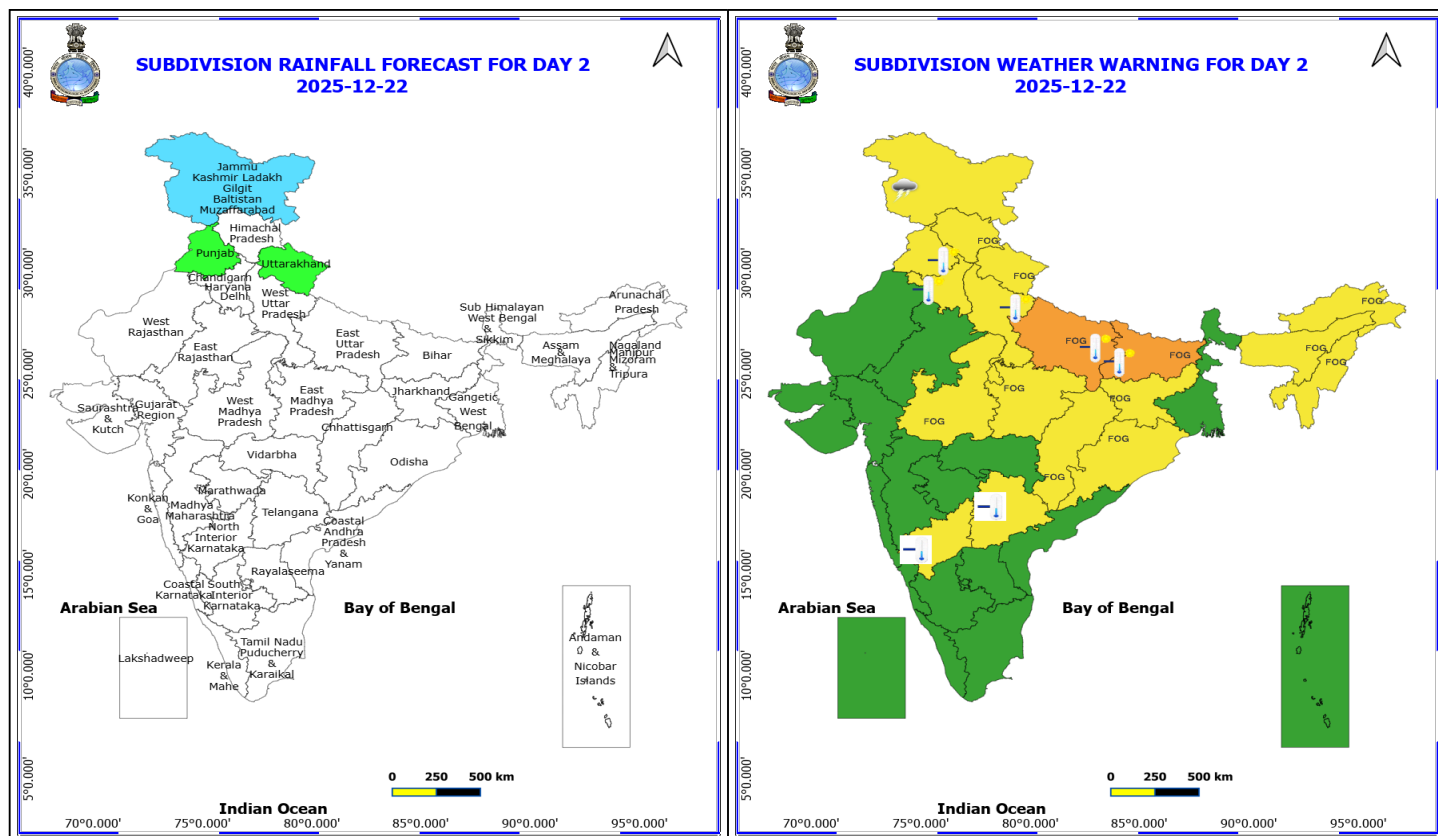
- ❖ **Heavy Rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heavy Snowfall** very likely at isolated places over Northeast Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thundersquall/Snowstorm with wind speed reaching(50-60kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ **Cold wave conditions** very likely at isolated places over North Interior Karnataka and Telangana.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jharkhand, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Rajasthan, Uttarakhand, West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over East Uttar Pradesh.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off south Oman & adjoining Yemen coasts, adjoining and some parts of westcentral Arabian Sea, along and off Somalia coast, adjoining sea areas, over Gulf of Mannar & adjoining Comorin area.

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22 December (Day 2)

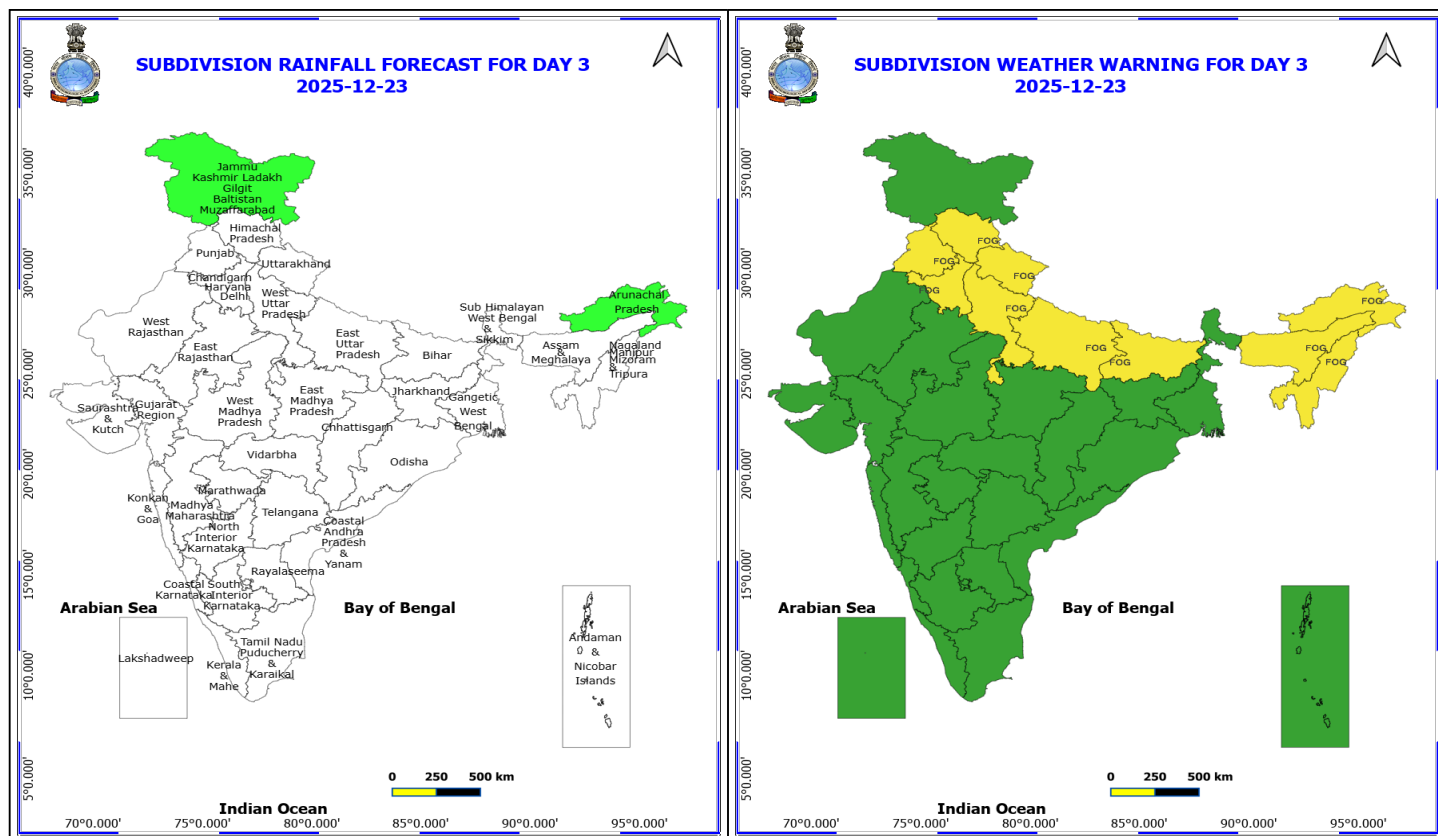
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Cold wave conditions** very likely at isolated places over North Interior Karnataka and Telangana.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Himachal Pradesh, Jharkhand, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over East Uttar Pradesh.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to over Gulf of Mannar & adjoining Comorin area.

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23 December (Day 3)

❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab, Uttar Pradesh and Uttarakhand.

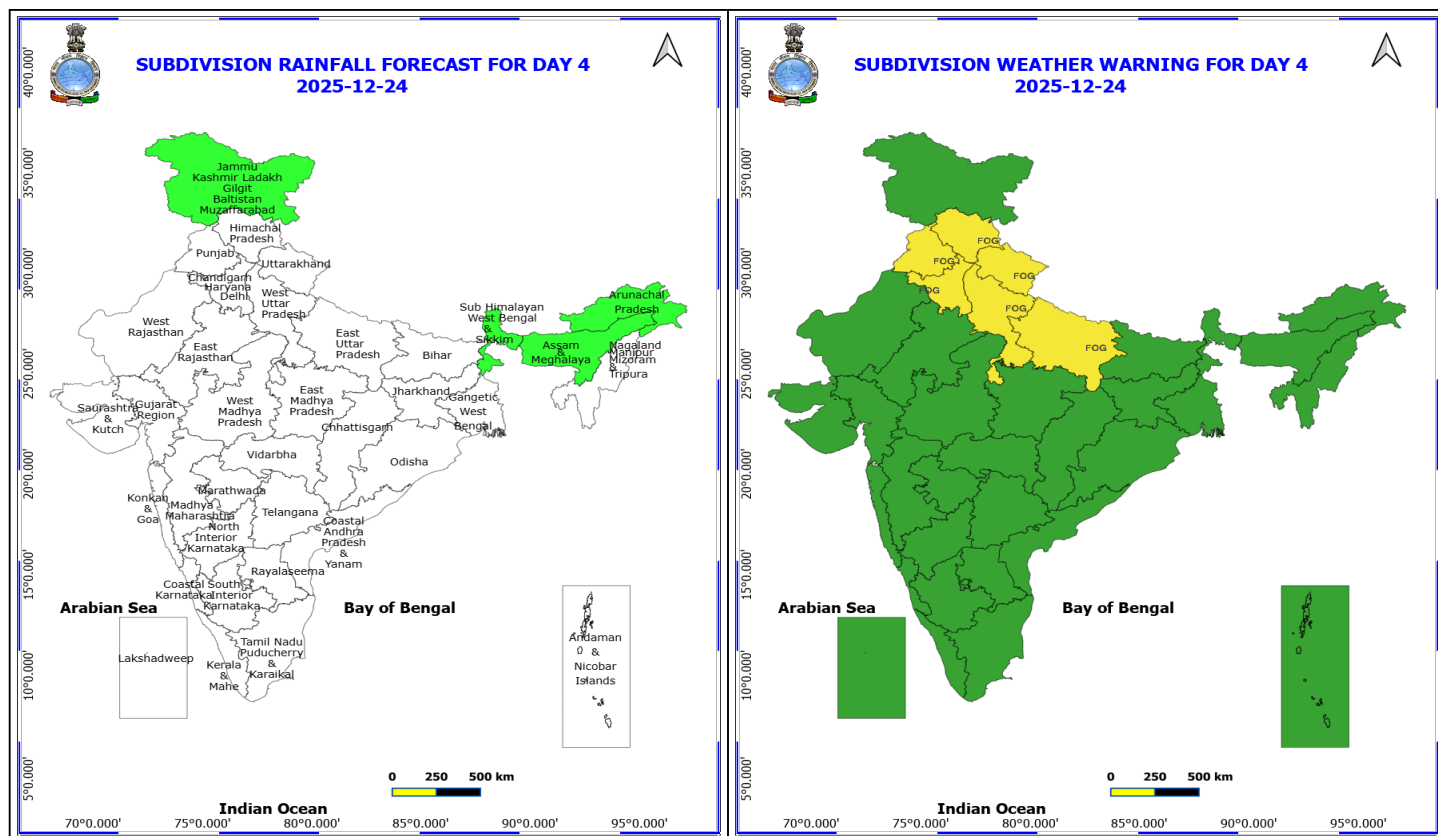
No Fishermen Warning

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24 December (Day 4)

- ❖ **Dense Fog** likely at isolated places over Himachal Pradesh, Uttar Pradesh and Uttarakhand.
- ❖ **Dense to Very Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.

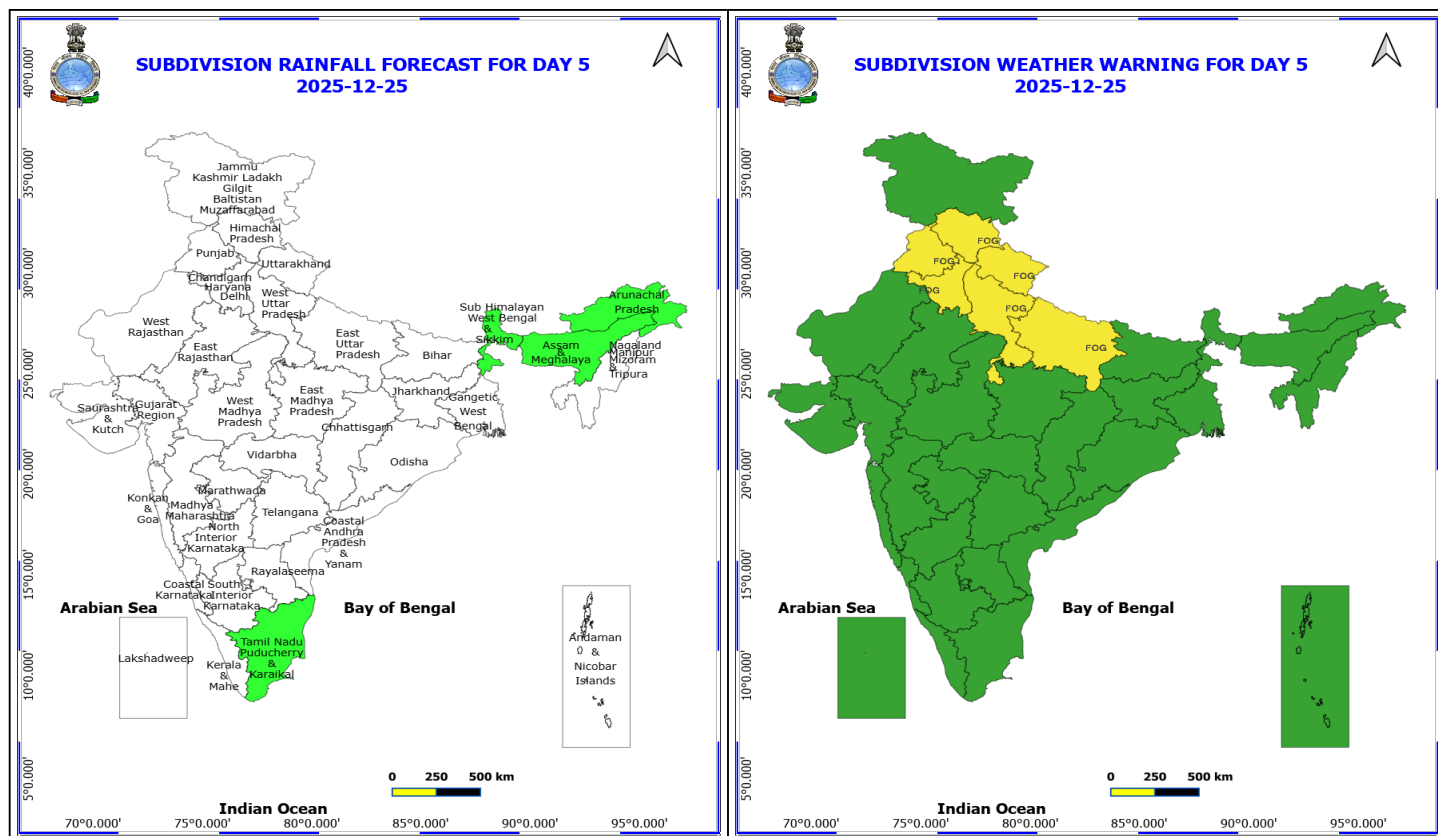
No Fishermen Warning

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25 December (Day 5)

- ❖ **Dense Fog** likely at isolated places over East Uttar Pradesh, Himachal Pradesh and Uttarakhand.
- ❖ **Dense to Very Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.

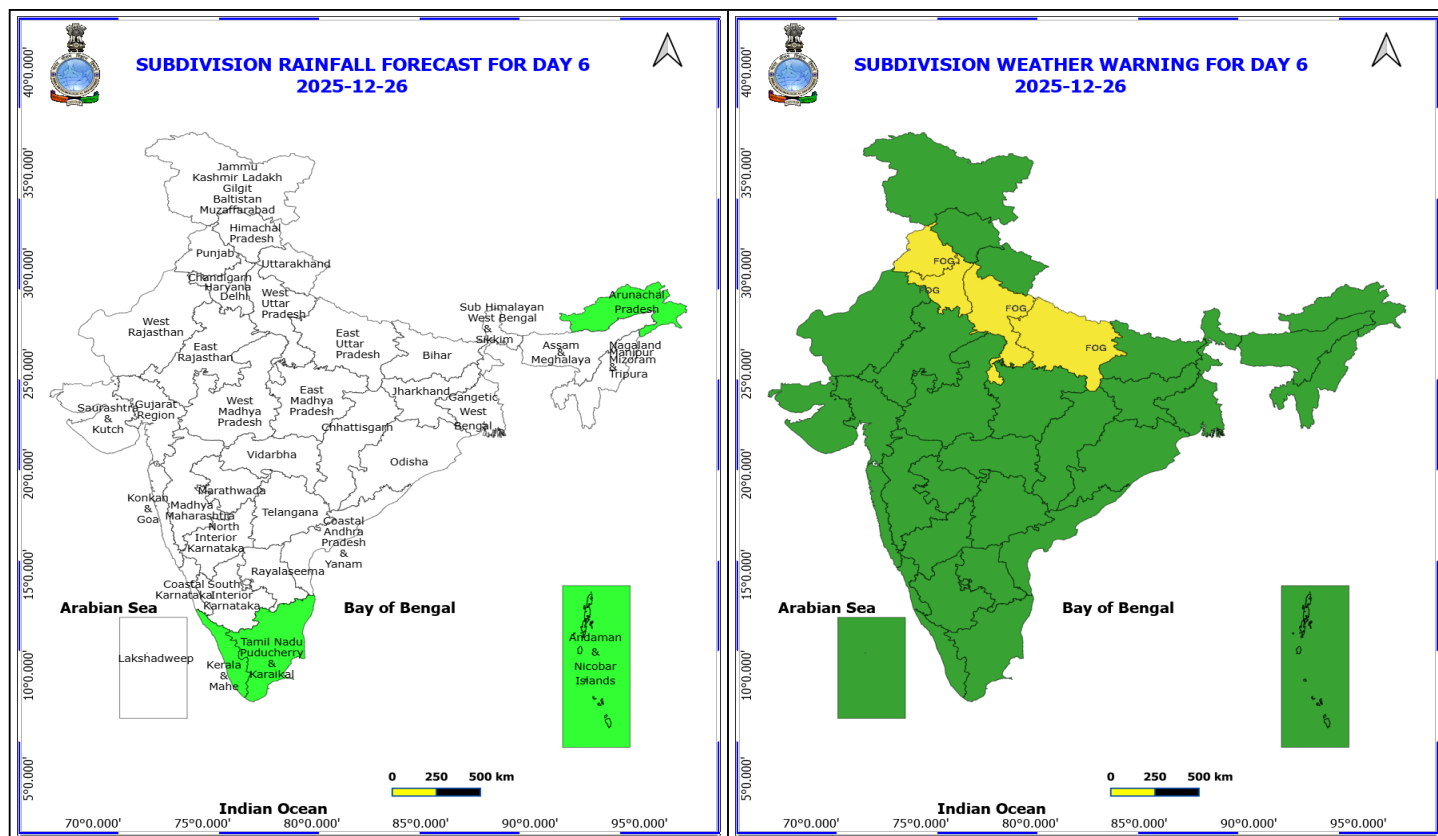
No Fishermen Warning

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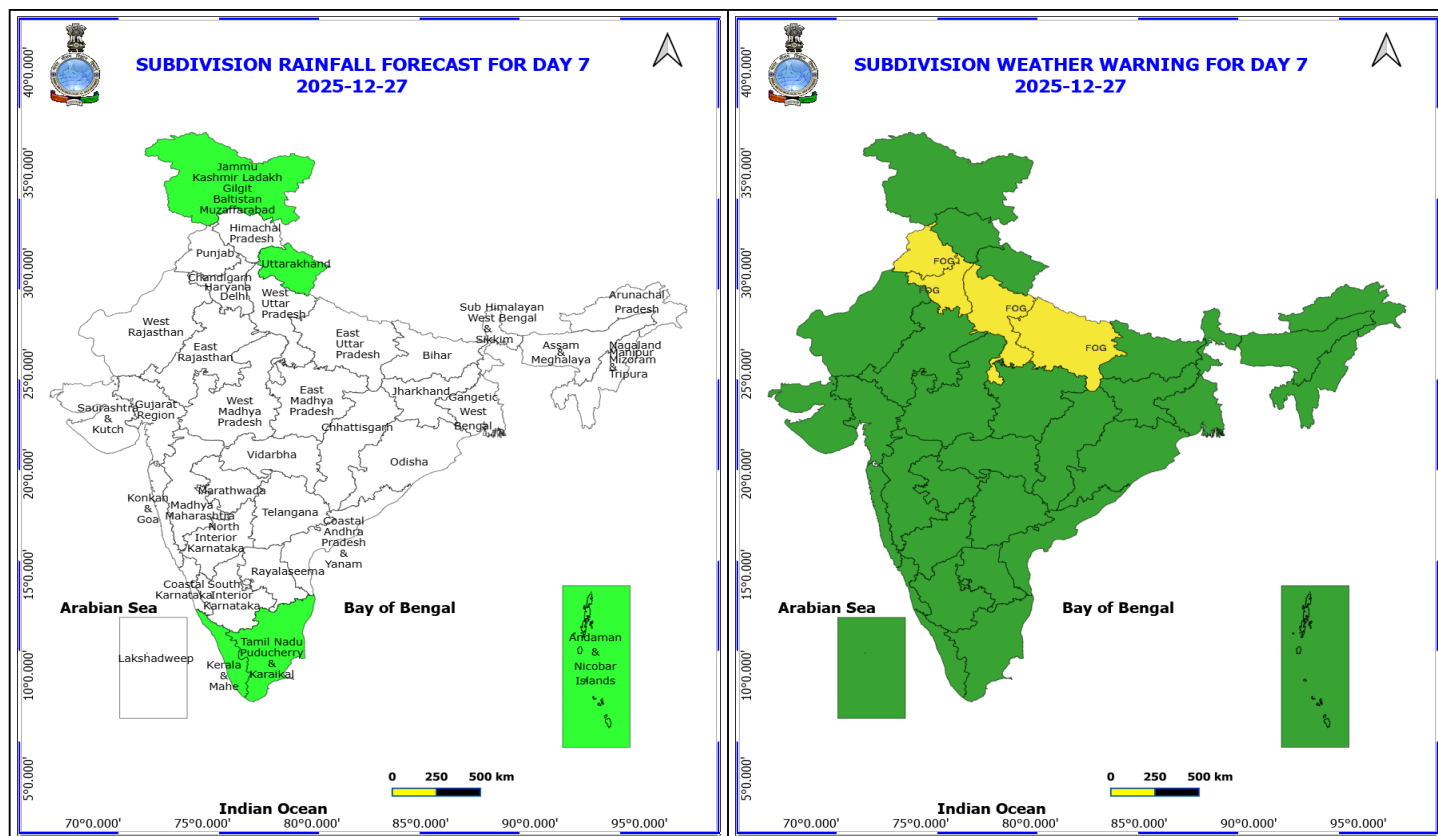
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26 December (Day 6)

- ❖ **Dense Fog** likely at isolated places over East Uttar Pradesh.
 - ❖ **Dense to Very Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.
- No Fishermen Warning**



27 December (Day 7)

- ❖ **Dense Fog** likely at isolated places over East Uttar Pradesh.
 - ❖ **Dense to Very Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.
- No Fishermen Warning**



Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	21- Dec	22- Dec	23- Dec	24- Dec	25- Dec	26- Dec	27- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	ISOL	ISOL	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	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	DRY	DRY	DRY	DRY	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	WS	FWS	ISOL	ISOL	DRY	DRY	ISOL
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	DRY
21	GUJRAT 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	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	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	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
32	COSTAL 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	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
36	LAKSHDWEAP	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

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Fig. 1: Maximum Temperatures Dated 2025-12-20

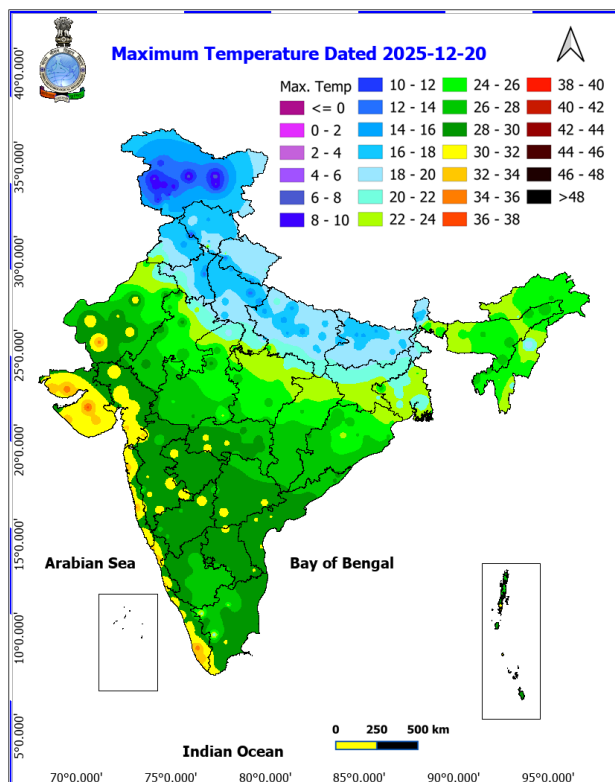


Fig. 2: Departure of Maximum Temp. Dated 2025-12-20

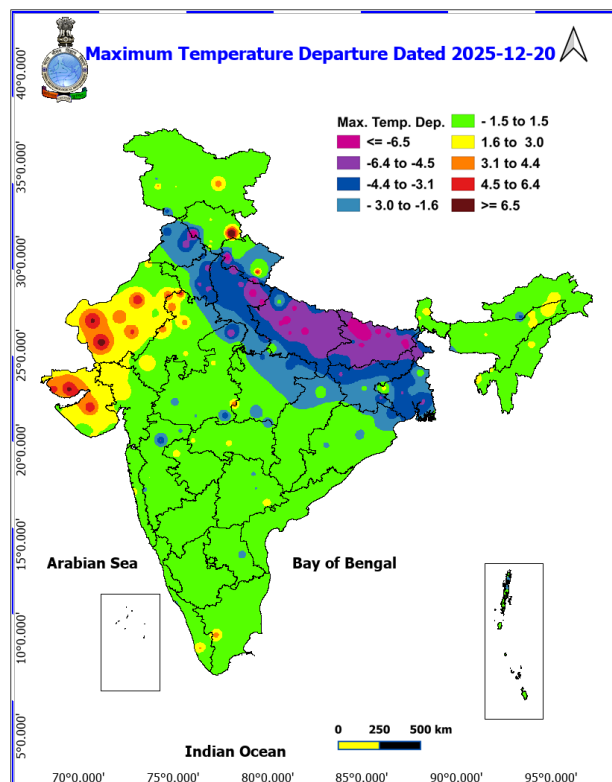


Fig. 3: Minimum Temperatures Dated 2025-12-21

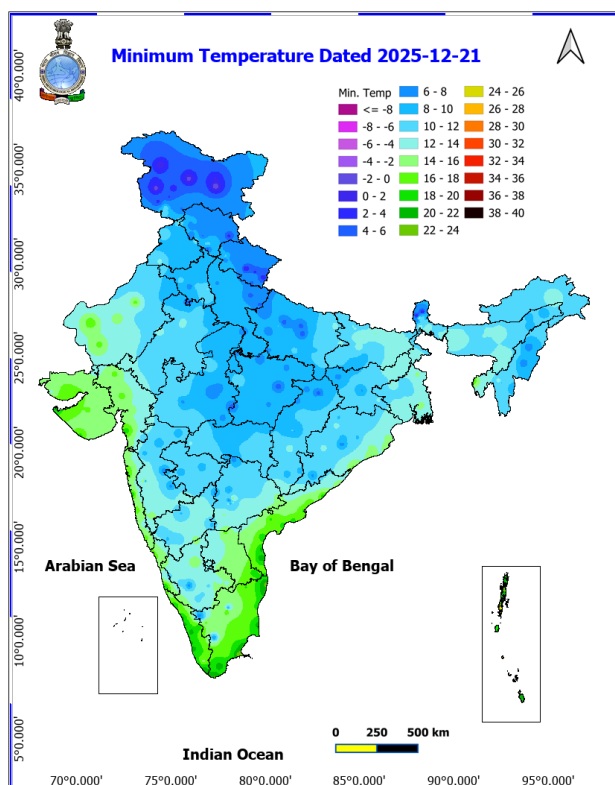
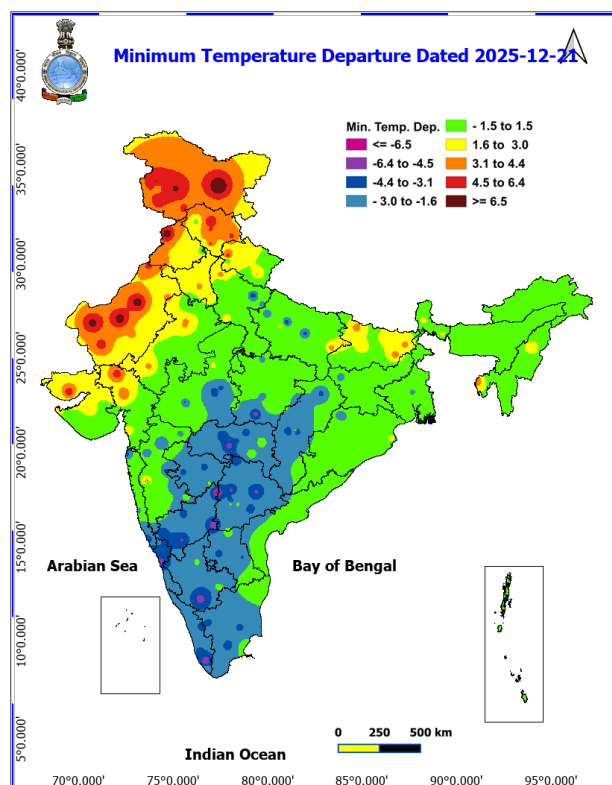
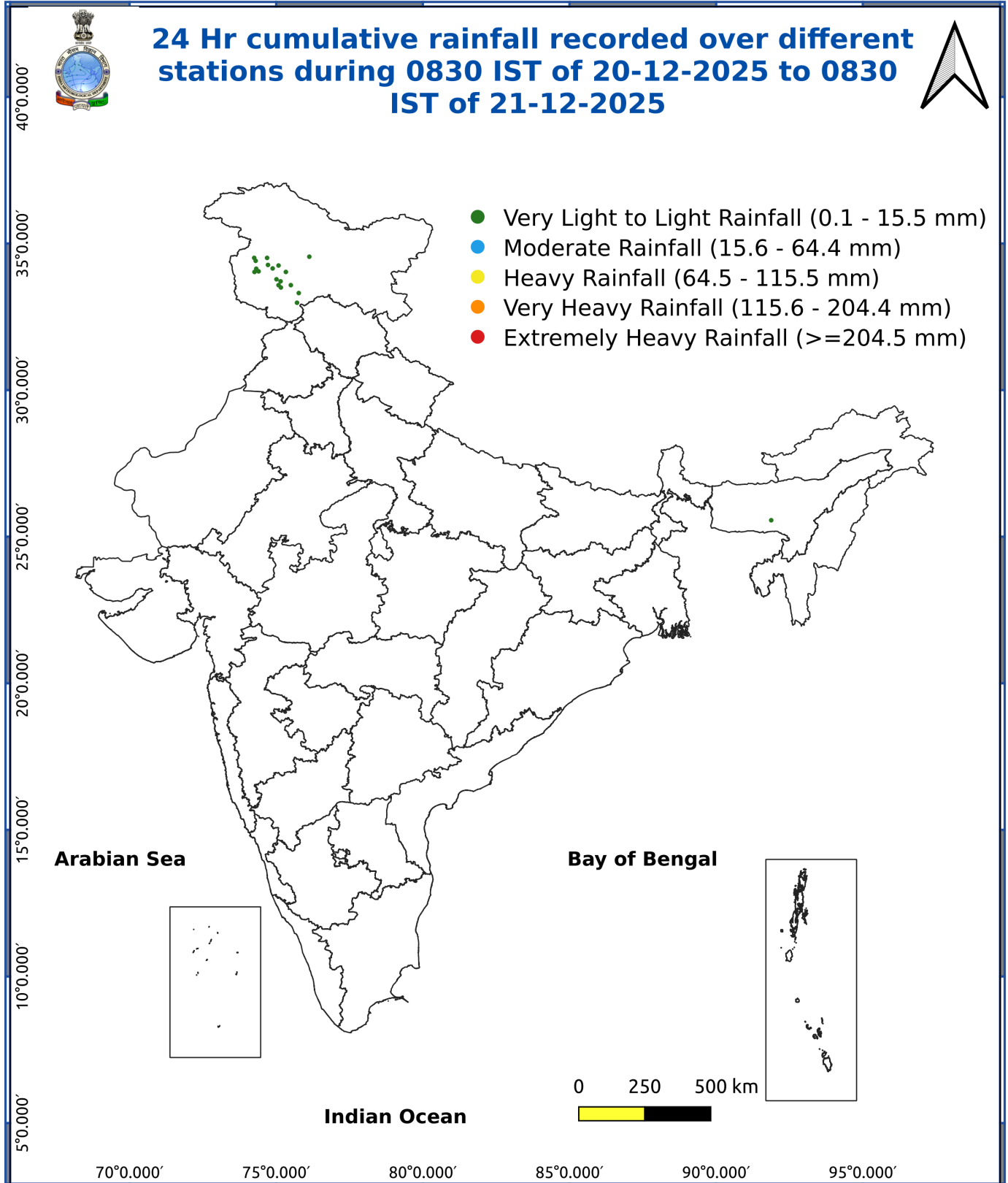


Fig. 4: Departure of Minimum Temp. Dated 2025-12-21





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Impact expected due to

Dense/ very dense fog in the night/ morning hours:

- **Dense to very dense fog conditions** during night/morning hours very likely East Uttar Pradesh till 23rd, Punjab, Haryana Chandigarh during 25th-28th, West Uttar Pradesh during 26th-28th with **Dense fog conditions** during night/morning hours very likely in isolated pockets of Punjab, Haryana Chandigarh, Uttar Pradesh till 22nd and during 24th-28th December.
- **Dense fog conditions** during night/morning hours very likely in isolated/some parts of Bihar till 24th and over Himachal Pradesh, Uttarakhand till 26th December.
- **Dense fog conditions** during night/morning hours very likely in isolated pockets of northeast India till morning hours of 24th; north Rajasthan, West Bengal & Sikkim till 22nd, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha till 23rd December.

❖Transport and Aviation:

May affect some airports, highways and railway routes in the areas of met- sub-division.

Difficult driving conditions with slower journey times.

Unless taken precautionary measures, it may lead to some road traffic collisions.

Power Sector:

Chances of Tripping of Power lines in the very dense fog routes

Human Health:

Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.

Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.

Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

❖ Transport and Aviation:

Be careful while driving or outing through any transport.

Use fog lights during driving.

Be in touch with airlines, railways and state transport for schedule of your journey.

❖ Power Sector:

To keep ready Maintenance Team.

Human Health: To avoid outing until unless emergency and to cover the face.

Impact expected due to

- **Cold Day conditions:** in isolated pockets of Uttarakhand, Jharkhand on 22nd; Punjab, Haryana Chandigarh, Bihar, Uttar Pradesh on 22nd & 23rd December.
- **Cold Wave conditions** in isolated pockets of North Interior Karnataka and Telangana on 22nd & 23rd December.
- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

- Wear several layers of loose fitting, light weight; warm woollen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woollen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Cold Waves / Low Temperatures

- In **Vidarbha, North Interior Karnataka and Telangana**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

Livestock / Poultry

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

Legends & abbreviations:

Region wise classification of meteorological Sub-Divisions:

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.

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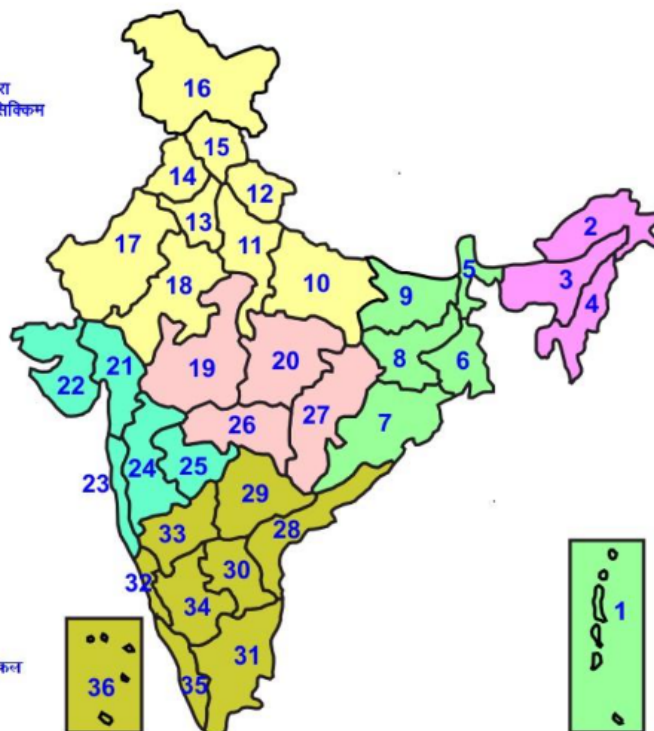
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- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada. **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

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 बंगाल
- 7 ओडिसा
- 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 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. 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)


Subdivision Colour


- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)


Probabilistic Forecast


Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75


-  Heavy Rain


 Thunderstorm & Lightning


 Strong surface winds


 Cold Wave


 Hot & Humid


 Very Heavy Rain


 Hailstorm


 Heat Wave


 Cold Day


 Extremely Heavy Rain


 Dust Storm


 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 Fog

*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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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 at least 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 Storm: Wind speed > 220 kmph (> 119 knots)

*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

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