

2025-12-29

Time of Issue: 13:36:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and warning

Scattered to fairly widespread light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 30th December-02nd January and Isolated to scattered light/moderate rainfall/snowfall over Himachal Pradesh and Uttarakhand during 30th December-02nd January.

Isolated light to moderate rainfall likely over Punjab Haryana-Chandigarh and West Rajasthan on 29th & 30th, west Uttar Pradesh on 01st Jan.

Isolated Thunderstorm and lightning with gusty wind speed (30-40kmph) likely to prevail over Andaman & Nicobar Islands during 29th -31st December.

Forecast of minimum temperatures:

Gradual rise in minimum temperature over northwest India by 3-4°C during next 3 days and thereafter fall by 3-4°C for subsequent 4 days.

Gradual rise in minimum temperature very likely over Central India by 2-3°C during next 5 days and thereafter no significant change.

No significant change in minimum temperature likely over East India for next 2 days thereafter gradual rise by 2-3°C for subsequent 3 days and no significant change over Jharkhand for next 24 hours thereafter rise by 2-3°C for subsequent 6 days.

No significant change in minimum temperature likely over Gujarat State for next 3 days and thereafter decrease by 2-3°C for subsequent 4 days and no significant change in minimum temperature likely over north Maharashtra for next 2 days and thereafter fall by 2-3°C for subsequent 5 days.

No significant change in minimum temperature likely over remaining parts of the country during next 7 days.

Dense Fog, Cold wave & Cold day Warnings:

Very dense fog conditions very likely to continue during night/morning hours over Haryana Chandigarh, West Uttar Pradesh and Punjab till 31st Dec; East Uttar Pradesh till 01st Jan; Odisha during 31st Dec- 02nd January 2026.

Dense fog conditions also likely during night/morning hours at isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Madhya Pradesh till 30th; Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh, Uttar Pradesh and Bihar till 5th Jan; Delhi till 31st Dec; Arunachal Pradesh till 31st Dec and Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura till 3rd Jan; Sub-Himalayan West Bengal & Sikkim; Odisha till 3rd Jan and Gangetic West Bengal during 31st Dec- 03rd Jan and Jharkhand till 31st December 2025.

Severe cold day conditions very likely at some pockets over Uttar Pradesh on 29th Dec and **Cold day conditions** very likely at isolated pockets over Himachal Pradesh on 31st Dec & 01st Jan; Uttarakhand on 29th & 30th; Bihar during 29th -31st; Jharkhand on 29th; West Uttar Pradesh on 29th & 30th and East Uttar Pradesh during 29th -31st December 2025.

Cold wave conditions very likely in isolated pockets of Punjab, Haryana Chandigarh, West Madhya Pradesh, Jharkhand and Chhattisgarh till 30th; Odisha till 31st and Himachal Pradesh during 01st - 03rd January 2026.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Andaman & Nicobar Islands; **at isolated places** over Arunachal Pradesh; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Andaman & Nicobar Islands**: Hut Bay (dist South Andaman), Nancowry (dist Nicobar) 3 Each; Car Nicobar (dist Nicobar), Iaf Carnicobar (dist Nicobar) 1 Each.
- ❖ **Fog Condition Observed (at 0830 hours of today): Dense fog conditions**: at most places over Punjab, at a few places over West Uttar Pradesh and Haryana Chandigarh & Delhi, at isolated places over East Uttar Pradesh, Uttarakhand, Jammu & Kashmir and Ladakh, West Madhya Pradesh and East Madhya Pradesh **Moderate fog conditions**: at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-himalayan West Bengal & Sikkim, Odisha, Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana Chandigarh & Delhi, Himachal Pradesh, West Madhya Pradesh and East Madhya Pradesh **Shallow fog conditions**: at a few places over Nagaland, Manipur, Mizoram & Tripura and Bihar, at isolated places over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Haryana Chandigarh & Delhi, East Rajasthan, East Madhya Pradesh and Chhattisgarh

Visibility in meter

reported:Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:Jammu(50),Udampur(500,Awantipora(200); **Himachal Pradesh**:Bilaspur(40m), Mandi(100m); **Uttarakhand**: Roshanabad(30m), Dehradun (50m), Khatima (75 M), Jollygrant (100 M); **Punjab**:Amritsar(0 M), Adampur(0 M), Halwara(0 M), Gurdaspur(10 M), Ludhiana(10 M), Pathankot(0 M) , Patiala (20 M), Bathinda(<50mtr), Ballawal(20M), Saunkri (30M); **Haryana Chandigarh & Delhi**: Chandigarh (30 M), Chandigarh IAF (0 M), Hisar(40 M), Ambala(50 M), Safdarjung And Palm : (50 M) West Bengal & Sikkim: Dum Dum (100M);**Odisha**: Rourkela (50M); **West Uttar Pradesh**:Saharanpur IAF & Agra IAF-(00M), Agra Taj-(30M), Aligarh & Meerut-(40M), Najibabad-(80M); **East Uttar Pradesh**: Kanpur(IAF)-(00M), Hardoi-(60M), Fatehgarh-(70M); **West Madhya Pradesh**:Gwalior-(00M) ,Datia – (50 M) ; **East Madhya Pradesh**:Damoh- (50 M), Khajuraho- (100M), Nowgong – (200M) , Umaria – (200M)

Cold day to severe cold day conditions observed at isolated/some places over Uttarakhand and Uttar Pradesh; **cold day conditions** in isolated pockets of Jharkhand and Bihar.

Cold wave conditions observed at isolated places over Punjab, Chandigarh, Chhattisgarh, Jharkhand, North Interior Karnataka and Madhya Pradesh.

❖ **Minimum Temperature Departures (as on 29-12-2025): below normal(-1.6°C to -3.0°C)** at many places over Vidarbha; at few places over East Madhya Pradesh, Madhya Maharashtra, Marathwada, Telangana, North Interior Karnataka, South Interior Karnataka and Lakshadweep; at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Bihar, Haryana-Chandigarh-Delhi, East Rajasthan, Konkan & Goa, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **appreciably below normal(-5.0°C to -3.1°C)** at few places over Chhattisgarh, Rayalaseema and North Interior Karnataka; at isolated places over Assam & Meghalaya, Odisha, Haryana-Chandigarh-Delhi, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Vidarbha, Telangana, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. **markedly below normal(< -5.0°C)** at few places over Gangetic West Bengal, West Madhya Pradesh, East Madhya Pradesh and Gujarat Region; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and South Interior Karnataka. **The lowest minimum temperature** of 2.1°C is reported at HISSAR (HARYANA) over the Plains of India.

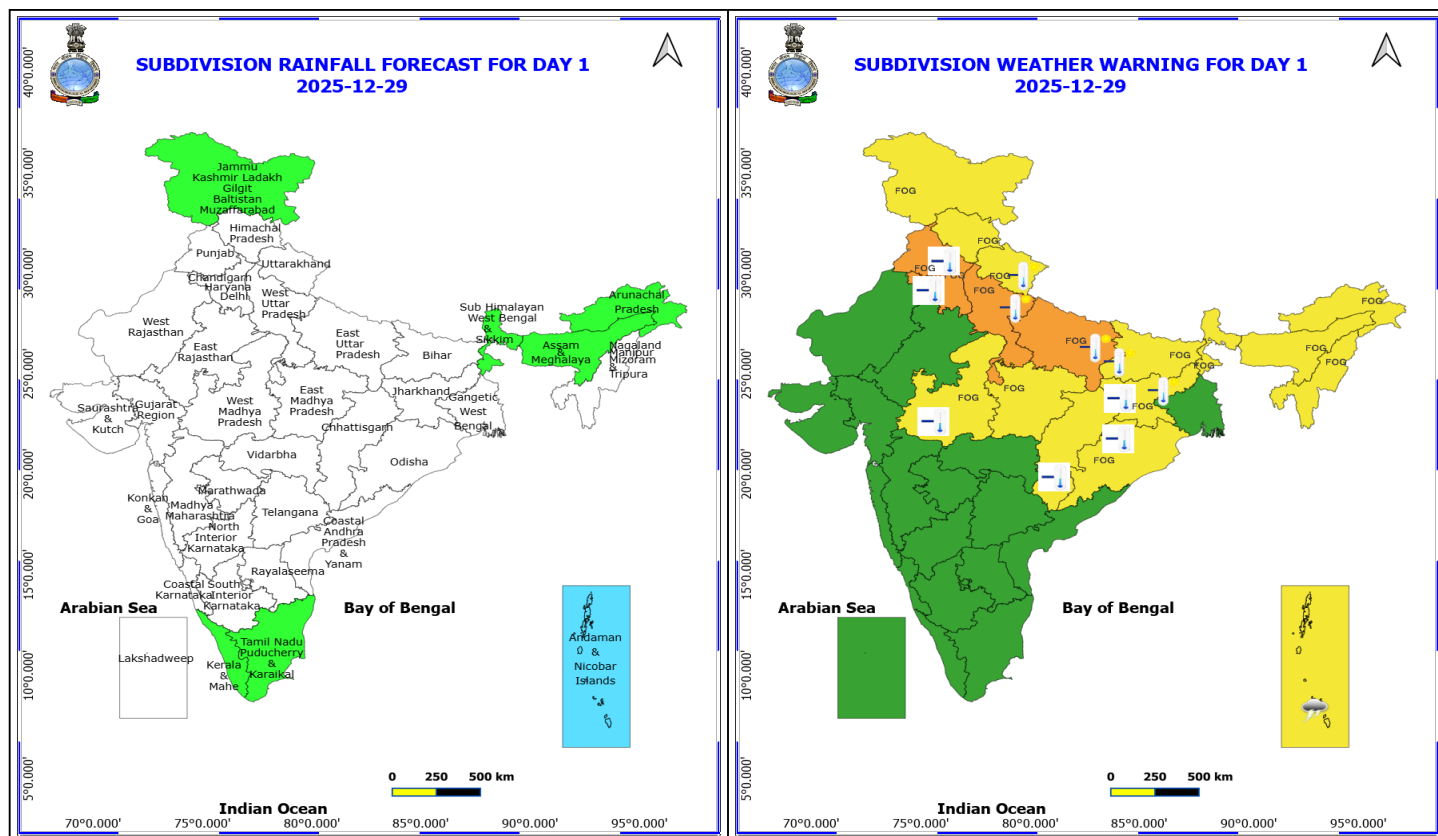
❖ **Maximum Temperature Departures (as on 28-12-2025): below normal(-1.6°C to -3.0°C)** at isolated places over East Uttar Pradesh. **appreciably below normal(-5.0°C to -3.1°C)** at isolated places over Bihar. **The highest maximum temperature** of 35.5°C is reported at KOTTAYAM (KERALA).

Meteorological Analysis (Based on 0830 hours IST)

- A fresh **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 52°E to the north of Lat. 30°N.
- **Subtropical westerly Jet Stream** with core winds of the order of 155 knots at 12.6 km above mean sea level prevails over south Rajasthan.
- The **upper air cyclonic circulation** over north Bangladesh persists and now seen at 1.5 km above mean sea level.
- An **upper air cyclonic circulation** lies over south Coastal Andhra Pradesh & neighbourhood at 1.5 km above mean sea level.
- The **trough** in easterlies now runs south of 10°N along 87°E over the southeast Bay of Bengal at 1.5 km above mean sea level.
- A **trough** in easterlies lays over southeast Arabian sea off Kerala coast between 1.5 & 5.8 km above mean sea level.
- The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 60°E to the north of Lat. 30°N has moved east-northeastwards.
- The **upper air cyclonic circulation** over Comorin area and adjoining southeast Arabian sea at 3.1 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood at 1.5 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

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



29 December (Day 1)

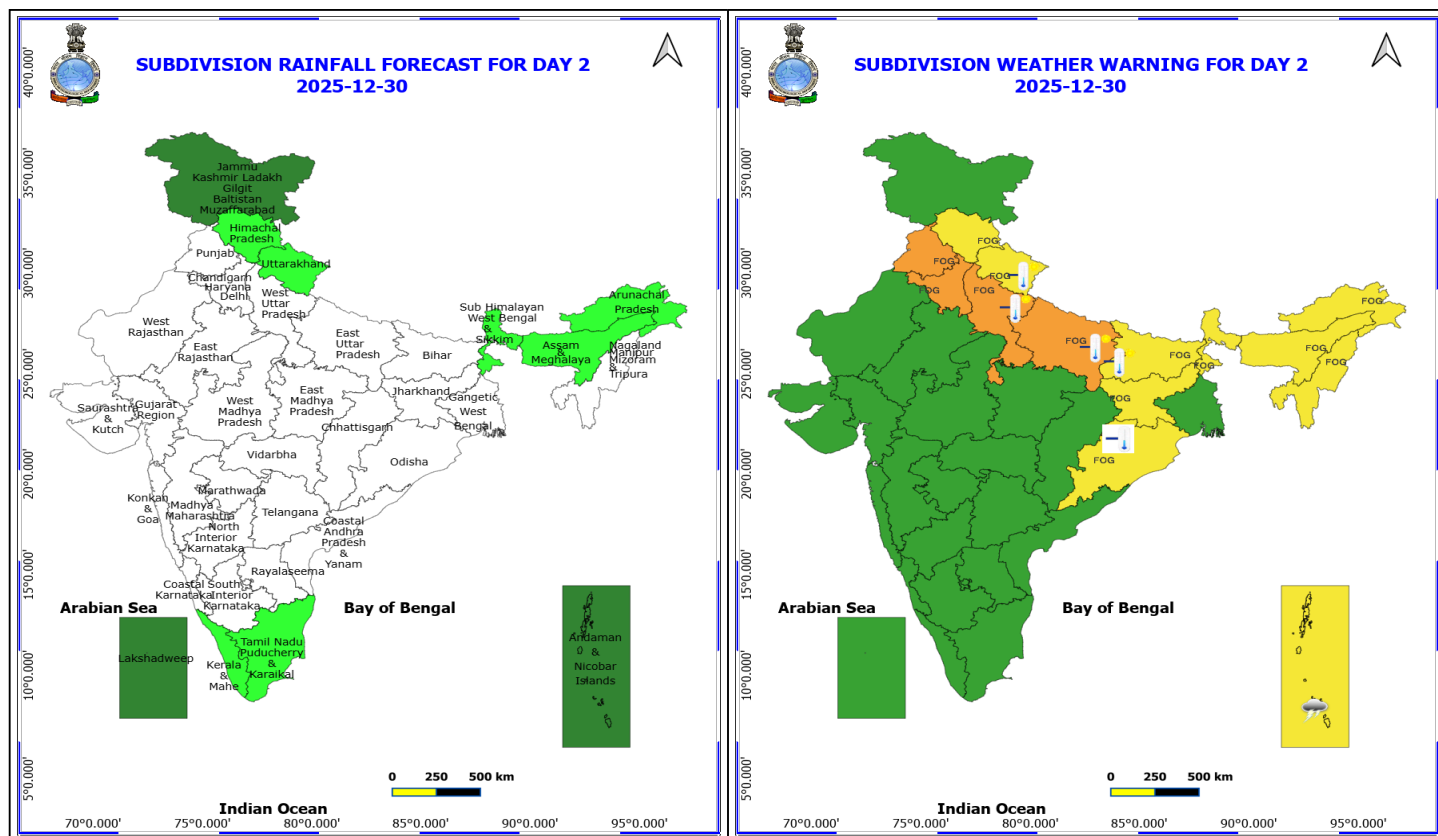
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Jharkhand, Odisha, Punjab and West Madhya Pradesh.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, Jharkhand and Uttarakhand.
- ❖ **Cold Day to Severe Cold Day conditions** very likely at isolated places over Uttar Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over Gulf of Mannar & adjoining, some parts of Comorin area.

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30 December (Day 2)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** very likely at isolated places over Odisha.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, Uttar Pradesh and Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Odisha, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.

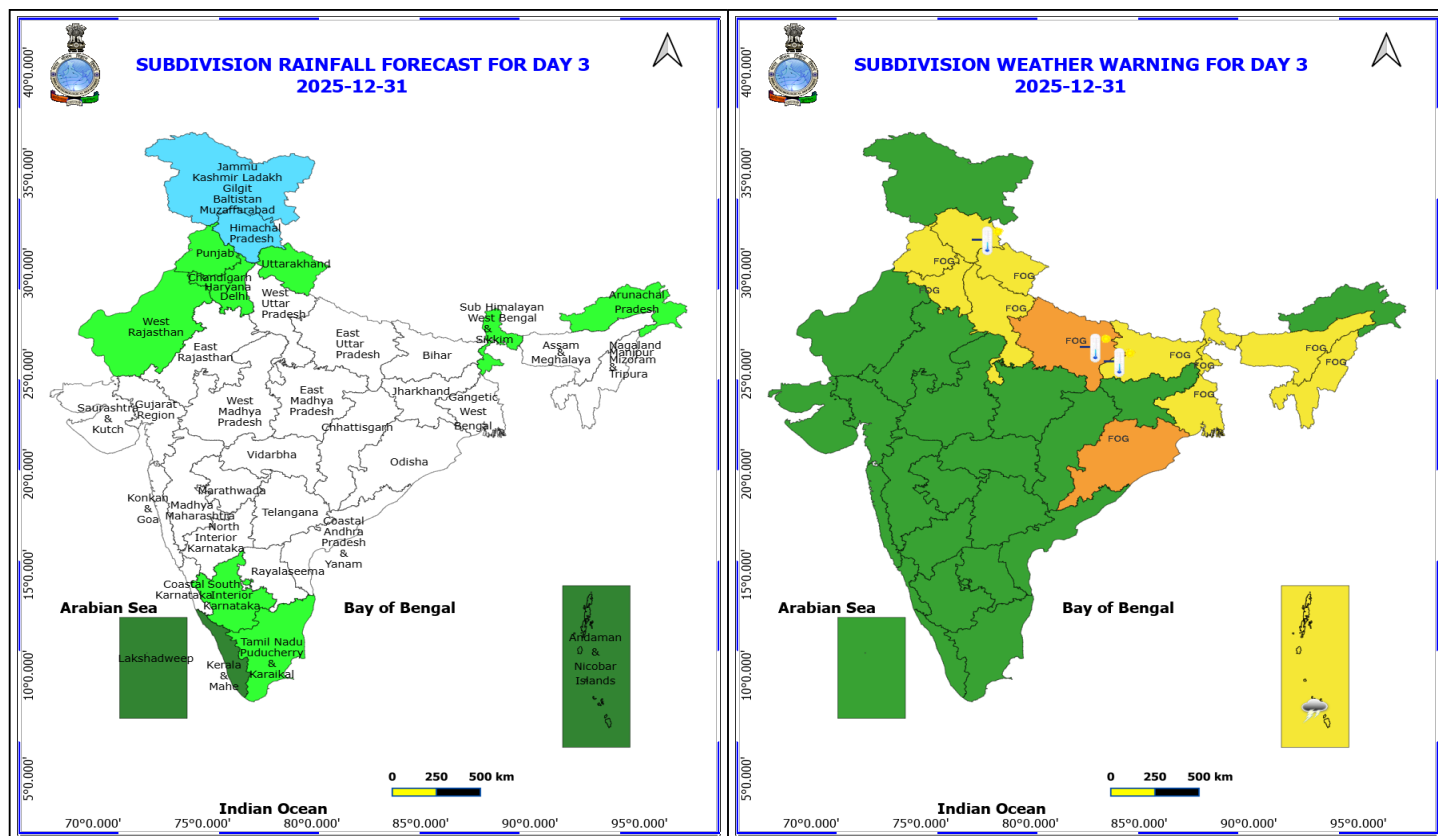
No Fishermen Warning

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31 December (Day 3)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, East Uttar Pradesh and Himachal Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, Uttarakhand, West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over East Uttar Pradesh and Odisha.

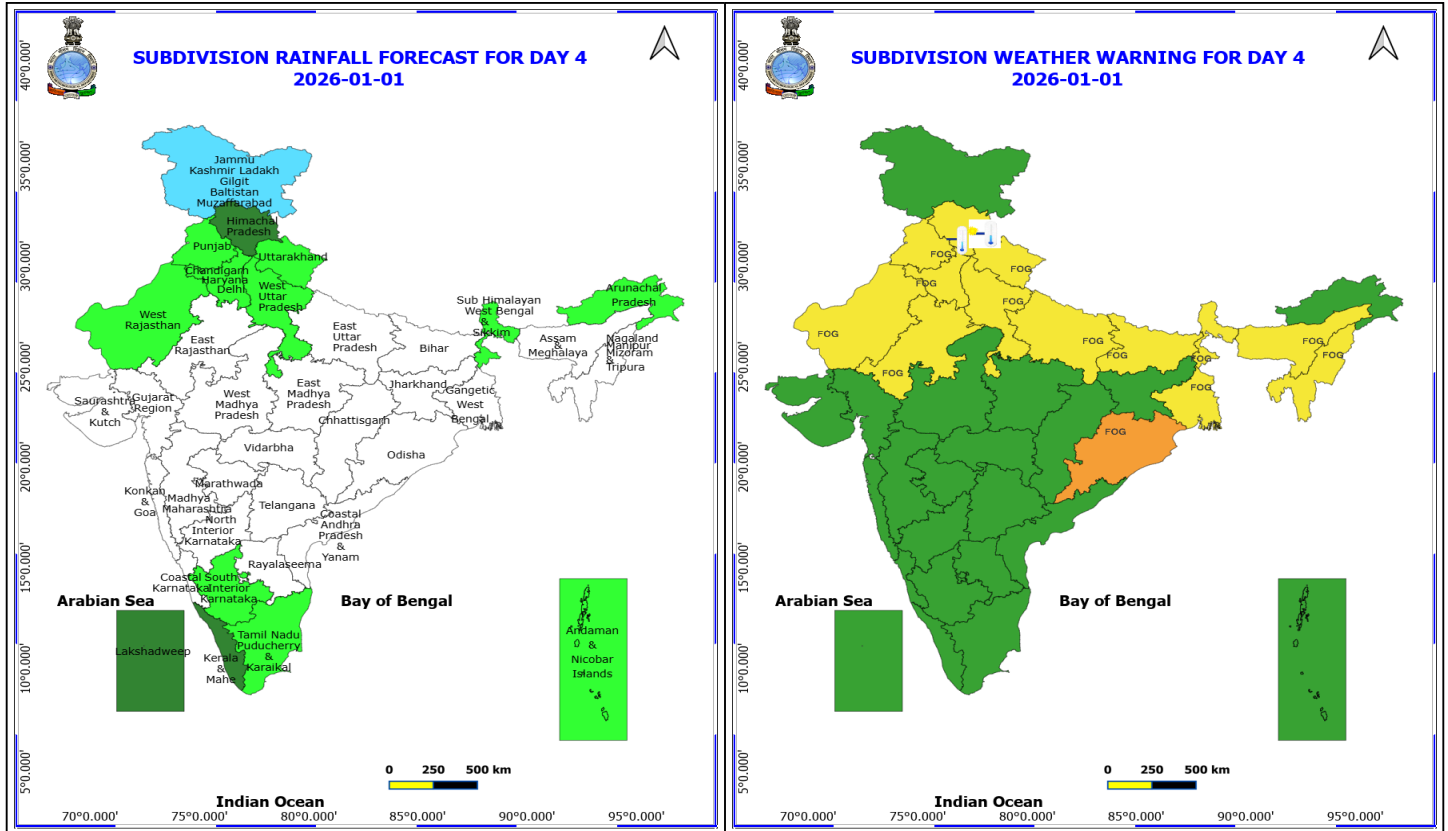
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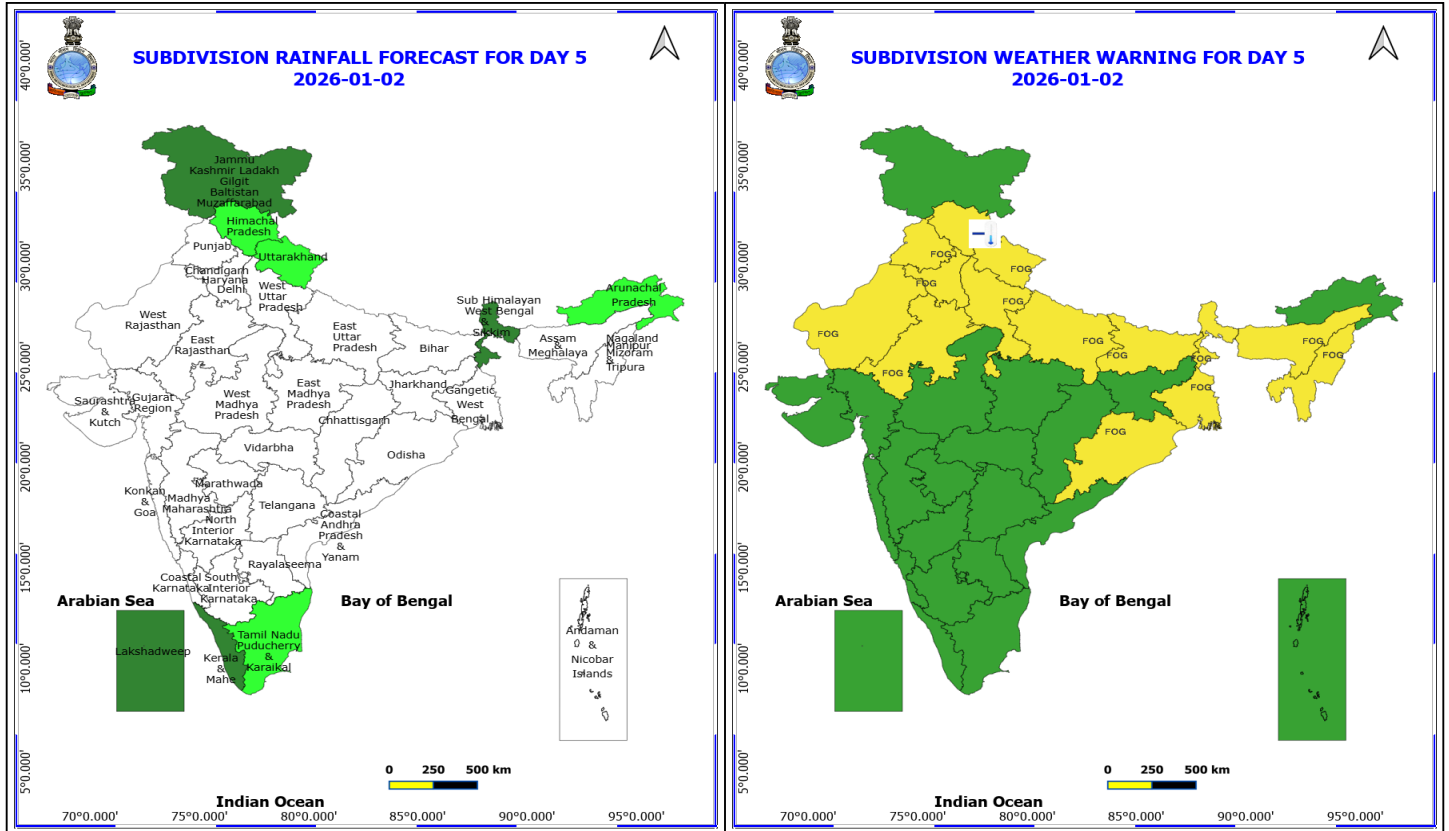
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1 January (Day 4)

- ❖ **Cold wave conditions** likely at isolated places over Himachal Pradesh.
- ❖ **Cold Day conditions** likely at isolated places over Himachal Pradesh.
- ❖ **Dense Fog** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand and West Bengal & Sikkim.
- ❖ **Dense to Very Dense Fog** likely at isolated places over Odisha.

No Fishermen Warning



2 January (Day 5)

- ❖ **Cold wave conditions** likely at isolated places over Himachal Pradesh.
- ❖ **Dense Fog** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand and West Bengal & Sikkim.

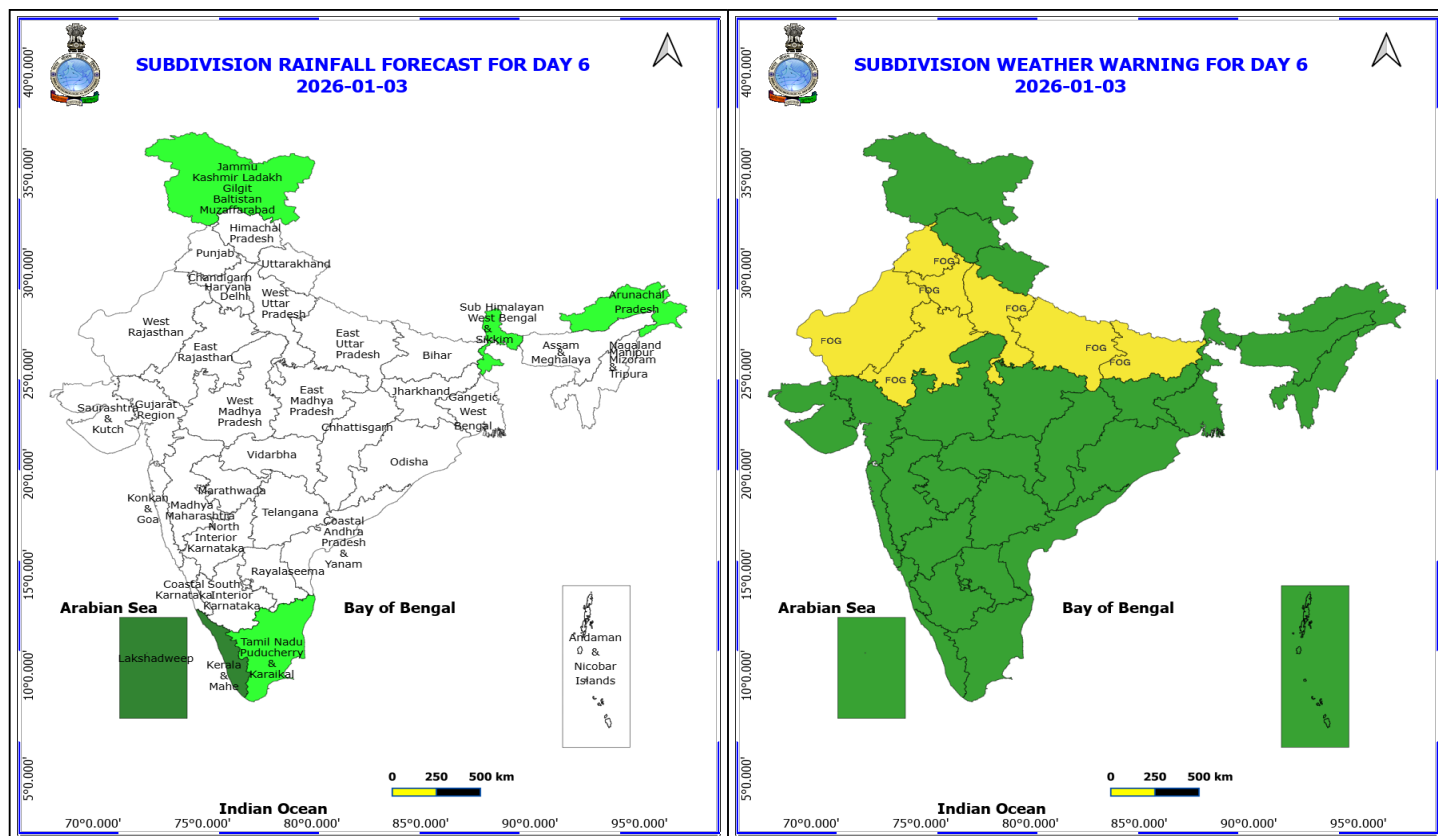
No Fishermen Warning

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3 January (Day 6)

❖ **Dense Fog** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Rajasthan and Uttar Pradesh.

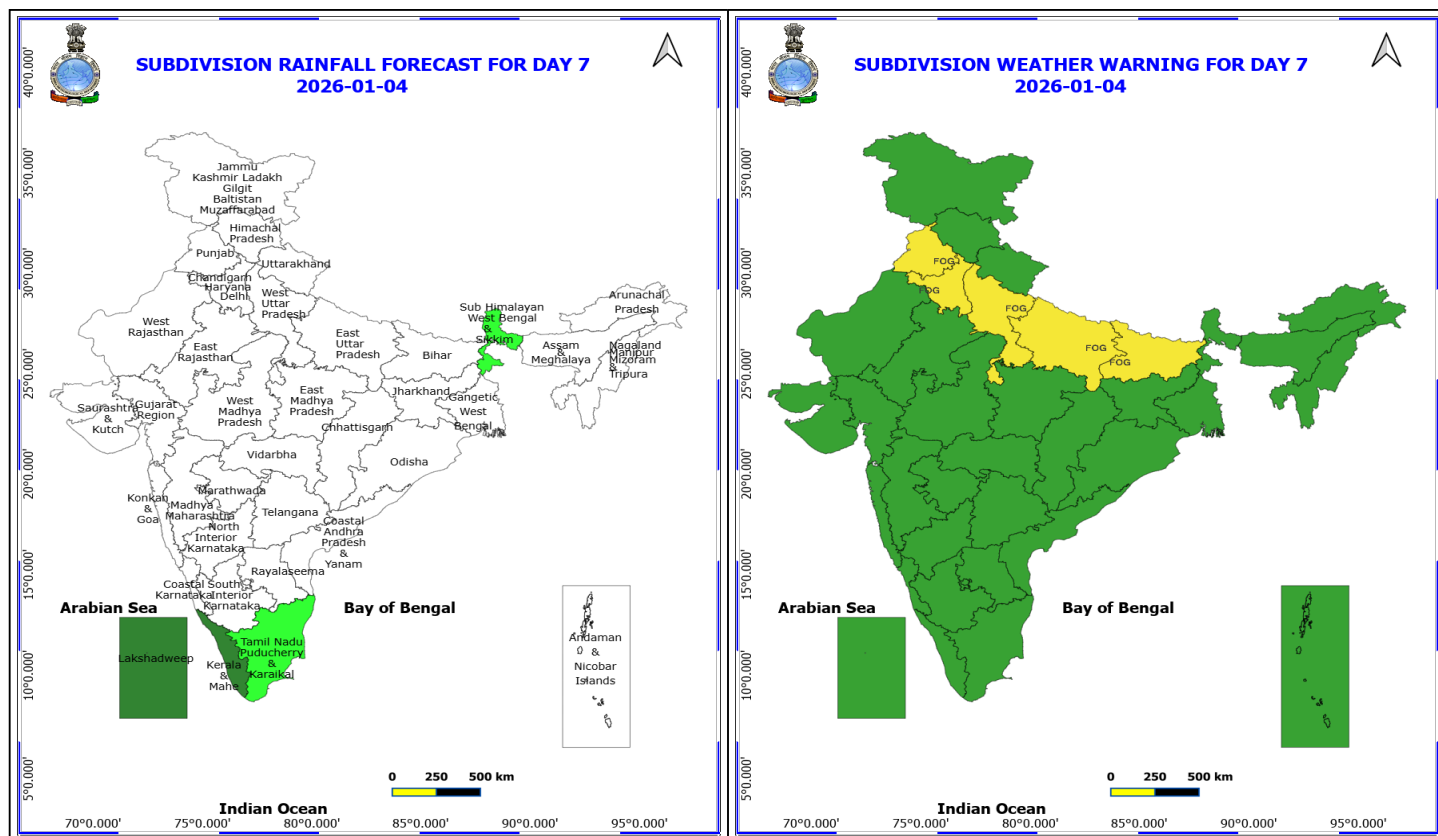
No Fishermen Warning

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4 January (Day 7)

❖ **Dense Fog** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	29- Dec	30- Dec	31- Dec	1- Jan	2- Jan	3- Jan	4- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	SCT	ISOL	DRY	DRY	DRY
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
3	ASSAM & MEHGHALAYA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
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	ISOL	DRY	DRY	DRY
12	UTTARAKHAND	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	ISOL	FWS	SCT	ISOL	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	ISOL	SCT	FWS	FWS	SCT	ISOL	DRY
17	WEST RAJASTHAN	DRY	DRY	ISOL	ISOL	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	ISOL	ISOL	ISOL	ISOL	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	ISOL	ISOL	DRY	DRY	DRY
35	KERALA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
36	LAKSHDWEAP	DRY	SCT	SCT	SCT	SCT	SCT	SCT

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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Fig. 1: Maximum Temperatures Dated 2025-12-28

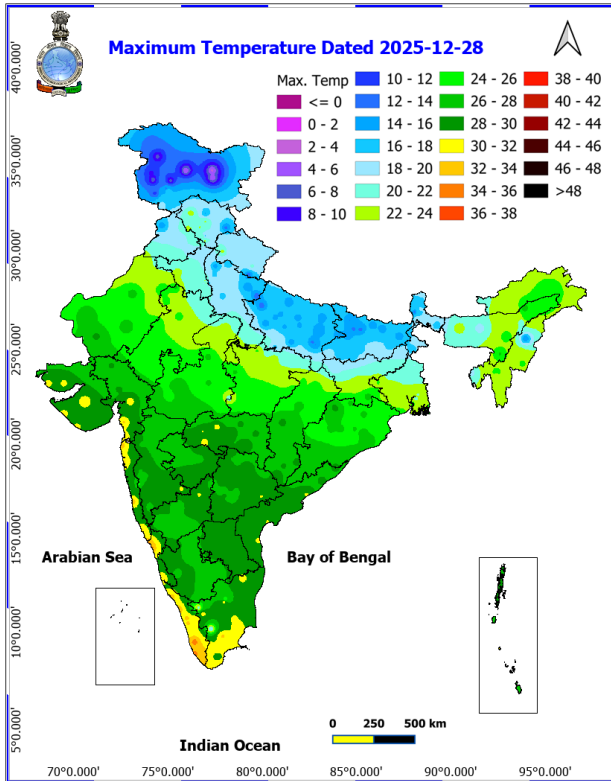


Fig. 2: Departure of Maximum Temp. Dated 2025-12-28

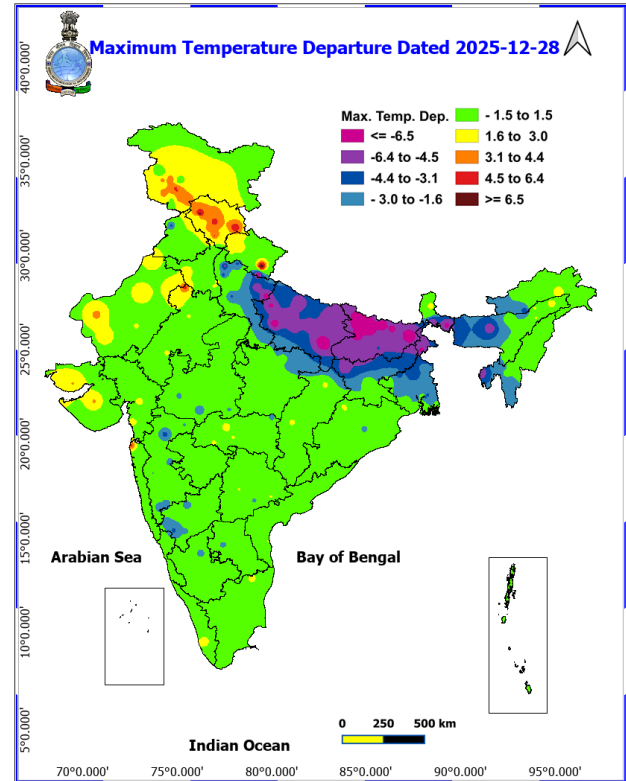


Fig. 3: Minimum Temperatures Dated 2025-12-29

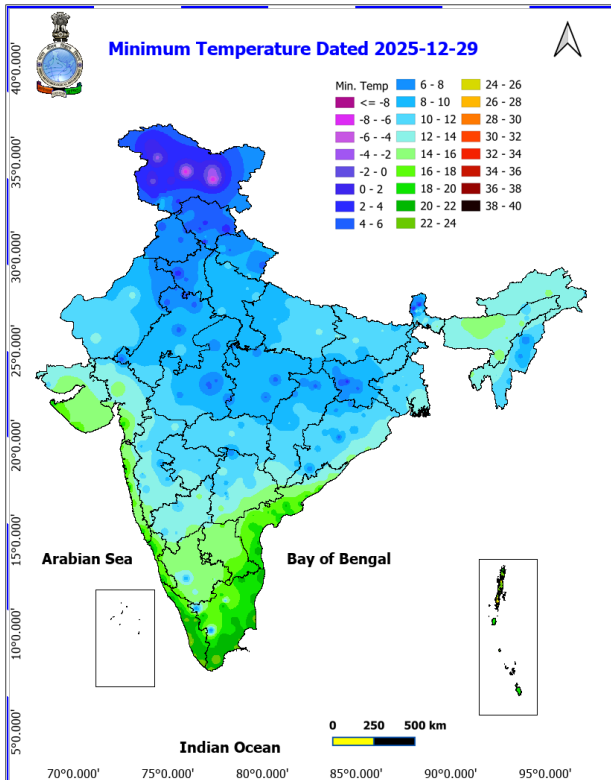
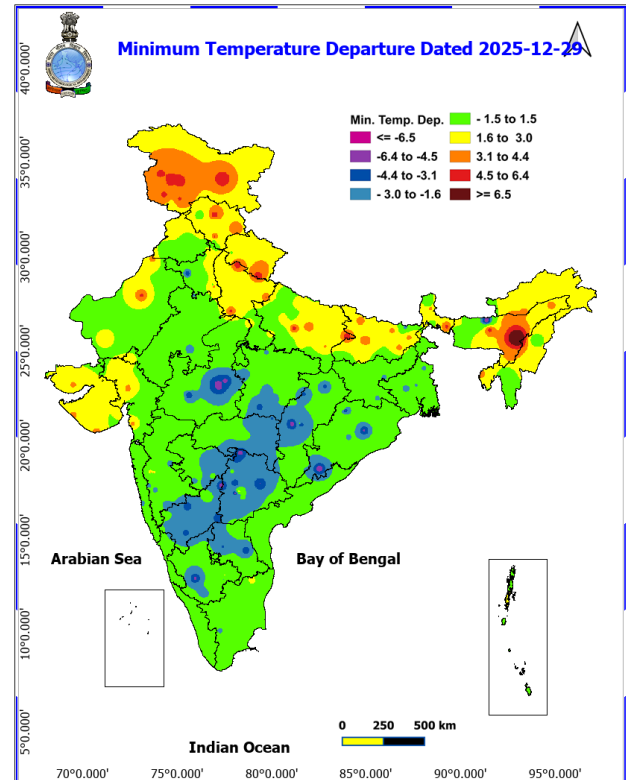
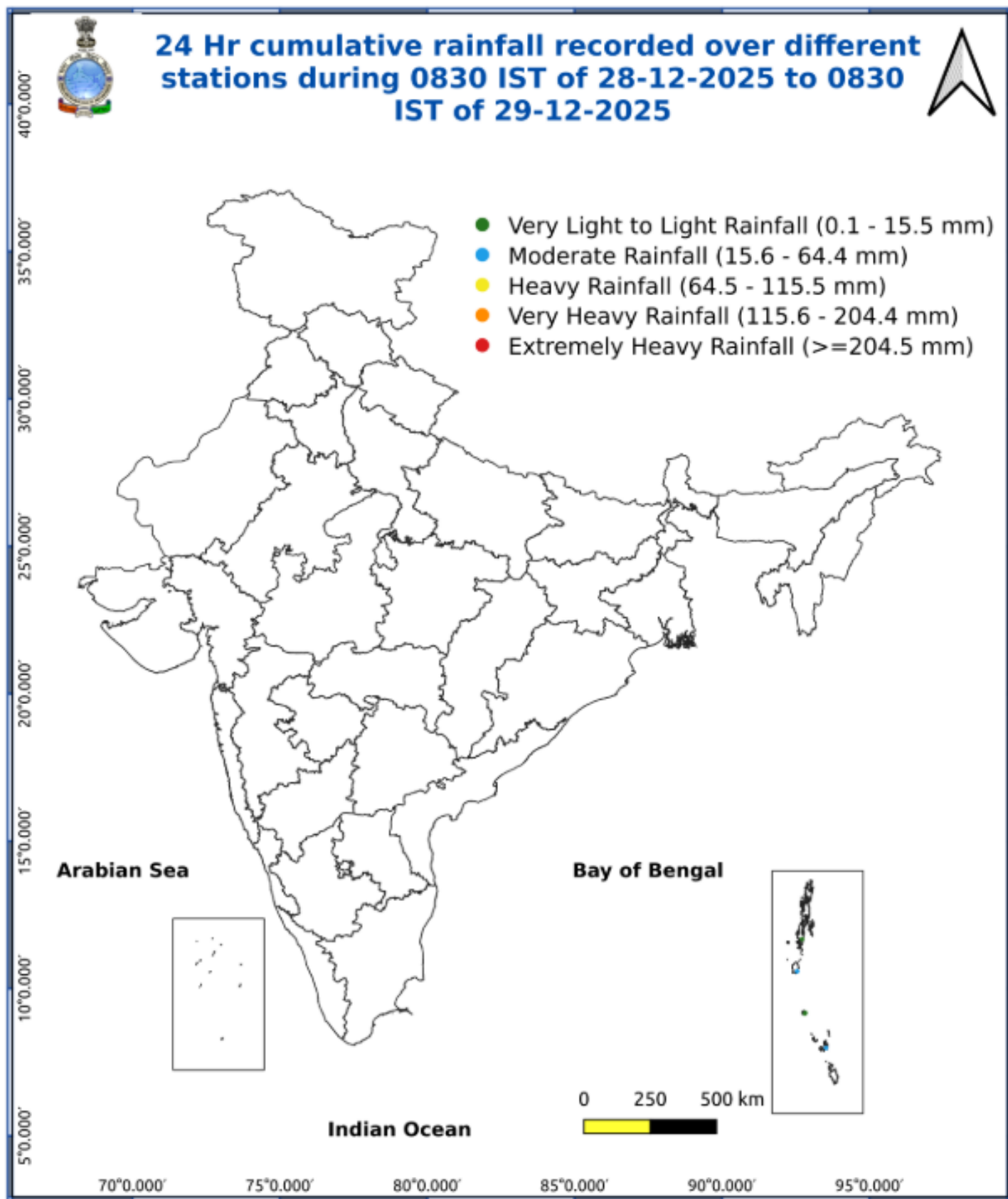


Fig. 4: Departure of Minimum Temp. Dated 2025-12-29





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Impact and Actions

Impact expected due to dense/very dense fog in the night/morning hours:

Very dense fog conditions very likely to continue during night/morning hours over Haryana Chandigarh, West Uttar Pradesh and Punjab till 31st Dec; East Uttar Pradesh till 01st Jan; Odisha during 31st Dec– 02nd Jan.

Dense fog conditions also likely during night/morning hours at isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Madhya Pradesh till 30th; Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh, Uttar Pradesh and Bihar till 5th Jan; Delhi till 31st Dec; Arunachal Pradesh till 31st Dec and Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura till 3rd Jan; Sub-Himalayan West Bengal & Sikkim; Odisha till 3rd Jan and Gangetic West Bengal during 31st Dec- 03rd Jan and Jharkhand till 31st Dec 2025.

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.

Cold wave conditions very likely in isolated pockets of Punjab, Haryana Chandigarh, West Madhya Pradesh, Jharkhand and Chhattisgarh till 30th; Odisha till 31st and Himachal Pradesh during 01st – 03rd January 2026.

- 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

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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.

Severe cold day conditions very likely at some pockets over Uttar Pradesh on 29th Dec and Cold day conditions very likely at isolated pockets over Himachal Pradesh on 31st Dec & 01st Jan; Uttarakhand on 29th & 30th; Bihar during 29th -31st; Jharkhand on 29th; West Uttar Pradesh on 29th & 30th and East Uttar Pradesh during 29th -31st December 2025.

- 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

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In **Punjab, Haryana, West Madhya Pradesh, Chhattisgarh, Odisha** and **Jharkhand**, 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.

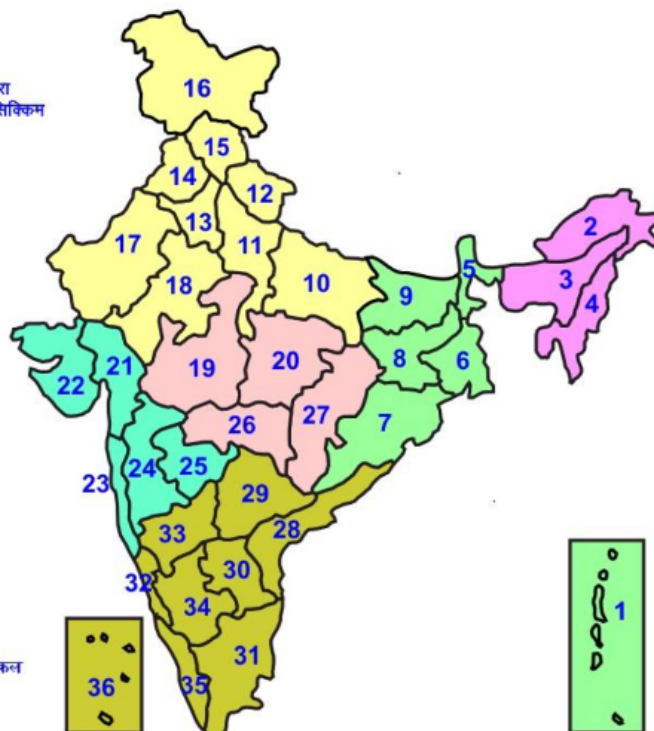
Keep the chicks warm by providing artificial light in the poultry sheds.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

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

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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 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 Storm: Wind speed > 220 kmph (> 119 knots)

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