

2025-12-30

Time of Issue: 19:50:00 hours IST  
(Night)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and warning

- **Isolated to widespread** heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 30<sup>th</sup> December-01<sup>st</sup> January and Isolated to scattered light/moderate rainfall/snowfall over Himachal Pradesh and Uttarakhand during 30<sup>th</sup> December-02<sup>nd</sup> January.
- **Isolated** light to moderate rainfall likely over Punjab Haryana-Chandigarh and on 31<sup>st</sup> & 01<sup>st</sup> Jan; West Rajasthan on 31<sup>st</sup>.
- **Isolated Thunderstorm and lightning** with gusty wind speed (30-40kmph) likely to prevail over Andaman & Nicobar Islands during 30<sup>th</sup> December-01<sup>st</sup> Jan 2026.

#### Forecast of minimum temperatures:

- Gradual rise in minimum temperature over northwest India by 3-4°C during next 2 days and thereafter fall by 3-4°C for subsequent 3 days and thereafter no significant change.
- Gradual rise in minimum temperature very likely over Central India by 2-3°C during next 3 days and thereafter no significant change.
- No significant change in minimum temperature likely over East India for next 24 hours thereafter gradual rise by 2-3°C for subsequent 3 days and no significant change thereafter.
- No significant change in minimum temperature likely over Gujarat State for next 24 hours and thereafter fall by 2-3°C for subsequent 2 days and thereafter rise by 2-3°C for subsequent 5 days.
- No significant change in minimum temperature likely over Maharashtra for next 48 hours and thereafter fall by 2-3°C for subsequent 2 days and thereafter rise 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:

- **Dense to Very dense** fog conditions very likely to continue during night/morning hours over Punjab, Haryana, Chandigarh and west Uttar Pradesh till 01<sup>st</sup> Jan; East Uttar Pradesh and Odisha till 02<sup>nd</sup> January 2026.
- **Dense fog** conditions also likely during night/morning hours at isolated pockets over Himachal Pradesh till 31<sup>st</sup> Dec; Uttarakhand till 04<sup>th</sup> Jan; over Punjab, Haryana Chandigarh, west Uttar Pradesh during 01<sup>st</sup> -06<sup>th</sup> Jan; east Uttar Pradesh during 02<sup>nd</sup> -06<sup>th</sup>; Rajasthan during 01<sup>st</sup> -04<sup>th</sup> Jan; Madhya Pradesh till 31<sup>st</sup> Dec; Sub-Himalayan West Bengal & Sikkim till 03<sup>rd</sup> Jan; Gangetic West Bengal during 31<sup>st</sup> Dec – 03<sup>rd</sup> Jan; Bihar till 05<sup>th</sup> Jan; Jharkhand till 31<sup>st</sup> Dec; Odisha during 02<sup>nd</sup> -04<sup>th</sup>; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura till 04<sup>th</sup> January 2026.
- **Cold day to Severe cold day** conditions very likely at some pockets over Uttar Pradesh on 30<sup>th</sup> Dec and Bihar on 30<sup>th</sup> & 31<sup>st</sup> Dec and **Cold day conditions** very likely at isolated pockets over Himachal Pradesh on 31<sup>st</sup> Dec & 01<sup>st</sup> Jan; Uttarakhand on 30<sup>th</sup>; Bihar during 01<sup>st</sup> -04<sup>th</sup> Jan; Jharkhand on 30<sup>th</sup>; Madhya Pradesh on 30<sup>th</sup> Dec; West Uttar Pradesh on 30<sup>th</sup> and East Uttar Pradesh during 30<sup>th</sup> -31<sup>st</sup> December 2025.
- **Cold wave** conditions very likely in isolated pockets of East Madhya Pradesh, Jharkhand and Chhattisgarh till 31<sup>st</sup>; West Rajasthan on 02<sup>nd</sup> & 03<sup>rd</sup> and Himachal Pradesh during 31<sup>st</sup> Dec -03<sup>rd</sup>; Telangana and North Interior Karnataka till 01<sup>st</sup> January 2026.

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#### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at most places** over Arunachal Pradesh; **at many places** over Assam & Meghalaya, Sub-himalayan West Bengal & Sikkim, Jammu & Kashmir and Ladakh and Andaman & Nicobar Islands; **Dry** over rest of the country.

❖ **Fog Condition Observed (at 1730 hours of today): Dense fog conditions:** at isolated places over Assam & Meghalaya **Moderate fog conditions:** at isolated places over Sub-himalayan West Bengal & Sikkim and East Uttar Pradesh.

❖ **Visibility reported (at 1730 hours of today): Assam & Meghalaya:** Shillong (dist East Khasi Hills) 50.0; East Uttar Pradesh: Barabanki (dist Barabanki) 200.0; **Sub-himalayan West Bengal & Sikkim:** Jalpaiguri (dist Jalpaiguri) 200.0;.

**Cold day to severe cold day conditions** observed in isolated pockets over east Uttar Pradesh; **cold day conditions** in isolated pockets over Bihar, Gangetic West Bengal and west Uttar Pradesh.

**Minimum Temperatures departures (as on 30-12-2025)** are appreciably below normal ( $-5.0^{\circ}\text{C}$  to  $-3.1^{\circ}\text{C}$ ) at isolated places over Central parts of East Madhya Pradesh; isolated in North Interior Odisha, Chhattisgarh, Gangetic West Bengal, Jharkhand North Interior Karnataka and Telangana. The lowest minimum temperature of  $3.0^{\circ}\text{C}$  is reported at NOWGONG-OBS (MADHYA PRADESH) over the Plains of India.

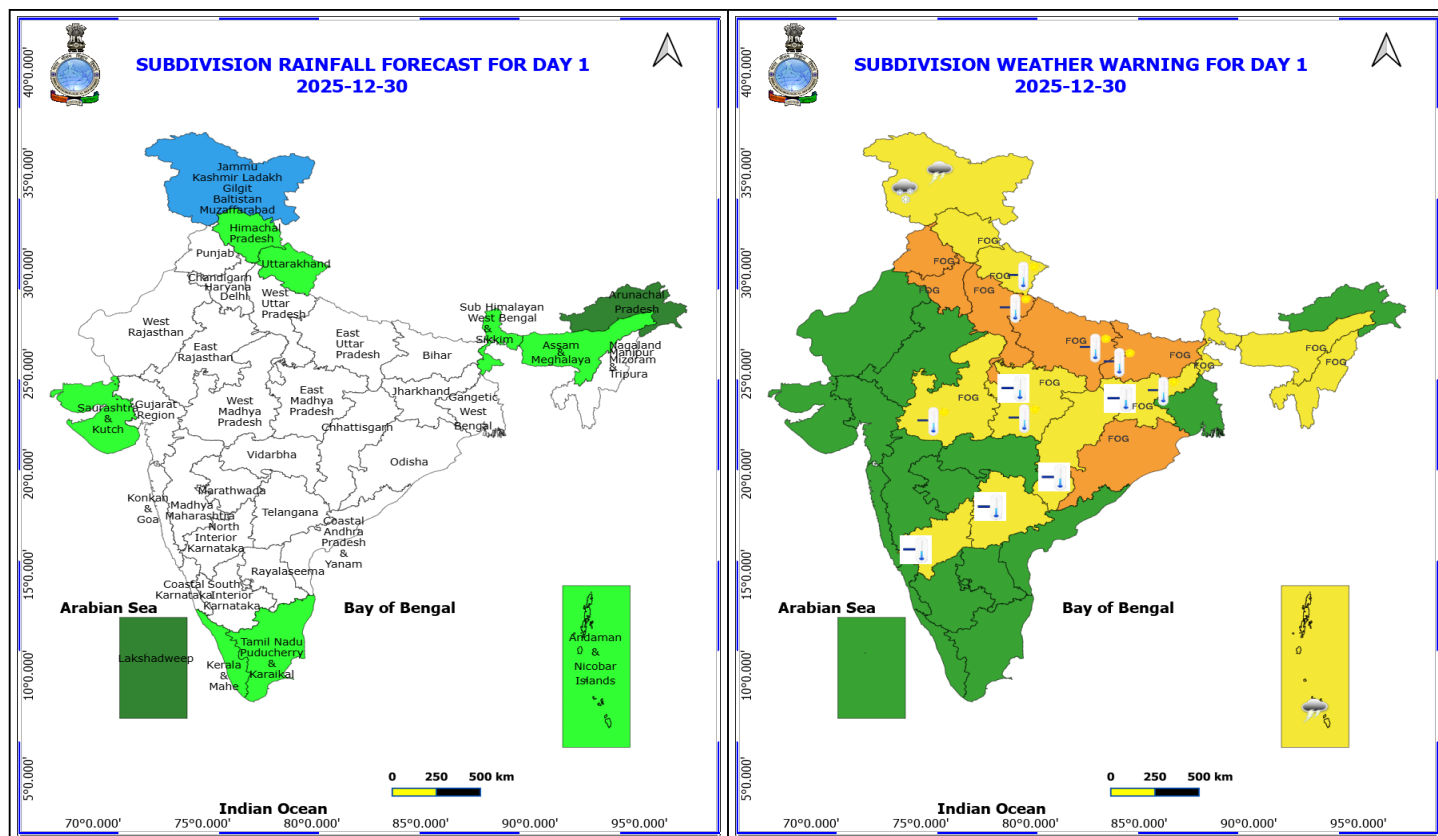
❖ **Maximum Temperature Departures (as on 30-12-2025): below normal( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ )** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh-Delhi, East Uttar Pradesh, Odisha. **appreciably below normal( $-5.0^{\circ}\text{C}$  to  $-3.1^{\circ}\text{C}$ )** at isolated places over Bihar, Jharkhand **markedly below normal( $< -5.0^{\circ}\text{C}$ )** at isolated places over Gangetic West Bengal. **The highest maximum temperature** of  $35.2^{\circ}\text{C}$  is reported at PUNALUR (KERALA).

#### Meteorological Analysis (Based on 1730 hours IST)

- The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 54°E to the north of Lat. 30°N persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 140 knots at 12.6 km above mean sea level continues to prevail over Delhi.
- The **trough** in easterlies south of Lat. 10°N along Long. 85°E over the southeast Bay of Bengal at 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over north Kerala & neighbourhood between 1.5 & 4.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over Northeast Assam at 1.5 above mean sea level persists.

#### Weather Outlook for subsequent 3 days

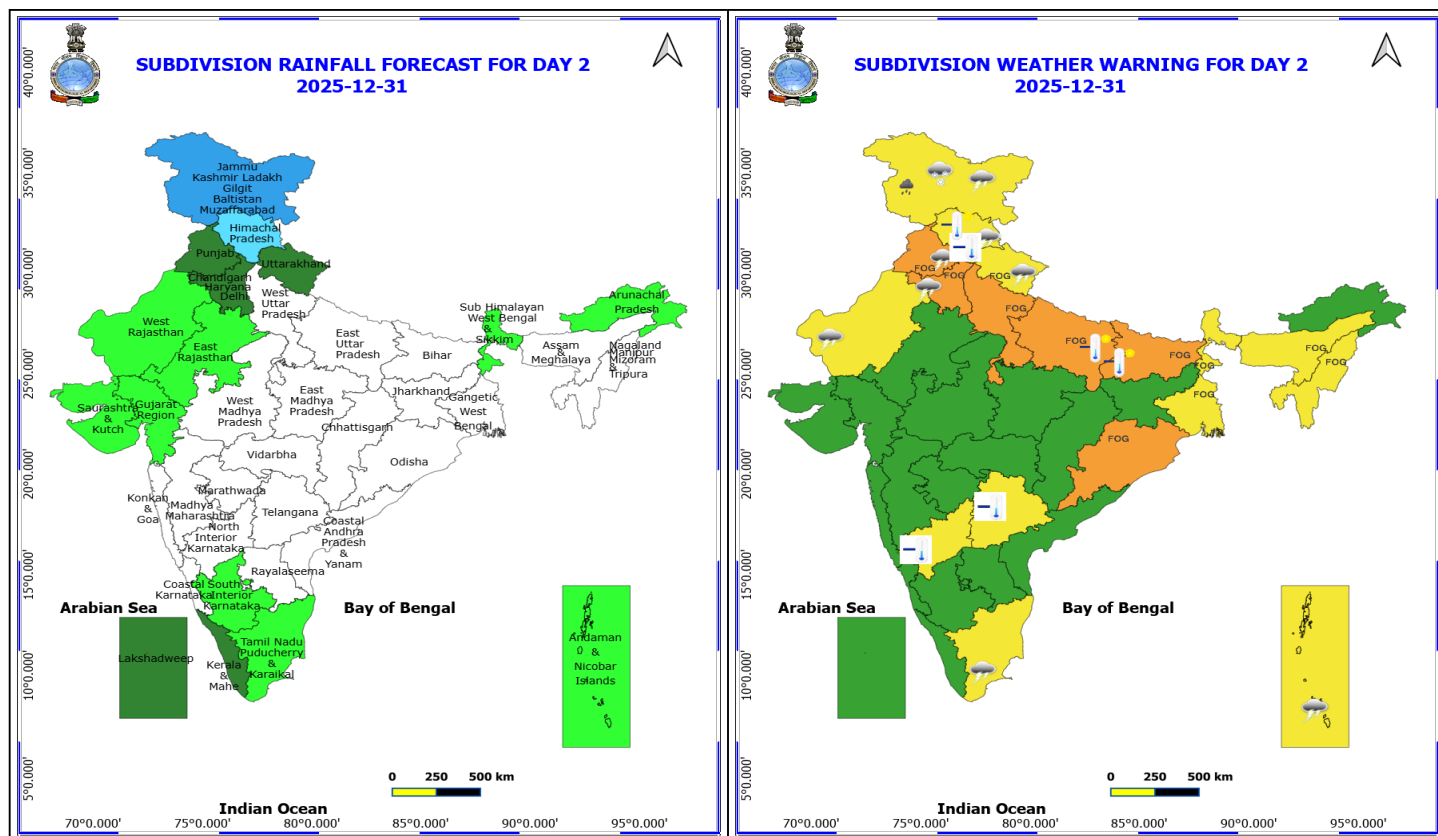
- Isolated to Scattered rainfall activity over Western Himalayana Region, Tamil Nadu, Kerala, Karnataka and Islands.



### 30 December (Day 1)

- ❖ **Heavy Snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **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 Chhattisgarh, East Madhya Pradesh, Jharkhand, North Interior Karnataka and Telangana.
- ❖ **Cold Day conditions** very likely at isolated places over Jharkhand, Madhya Pradesh, Uttarakhand and West Uttar Pradesh.
- ❖ **Cold Day to Severe Cold Day conditions** very likely at isolated places over Bihar and East Uttar Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Himachal Pradesh, Jharkhand, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Odisha, Punjab and Uttar Pradesh.

**No Fishermen Warning**



### 31 December (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heavy Snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Tamil Nadu Puducherry & Karaikal, Uttarakhand and West Rajasthan.
- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh, North Interior Karnataka and Telangana.
- ❖ **Cold Day conditions** very likely at isolated places over East Uttar Pradesh and Himachal Pradesh.
- ❖ **Cold Day to Severe Cold Day conditions** very likely at isolated places over Bihar.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Nagaland, Manipur, Mizoram and Tripura, Uttarakhand and West Bengal & Sikkim.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Odisha, Punjab and Uttar Pradesh.

**No Fishermen Warning**

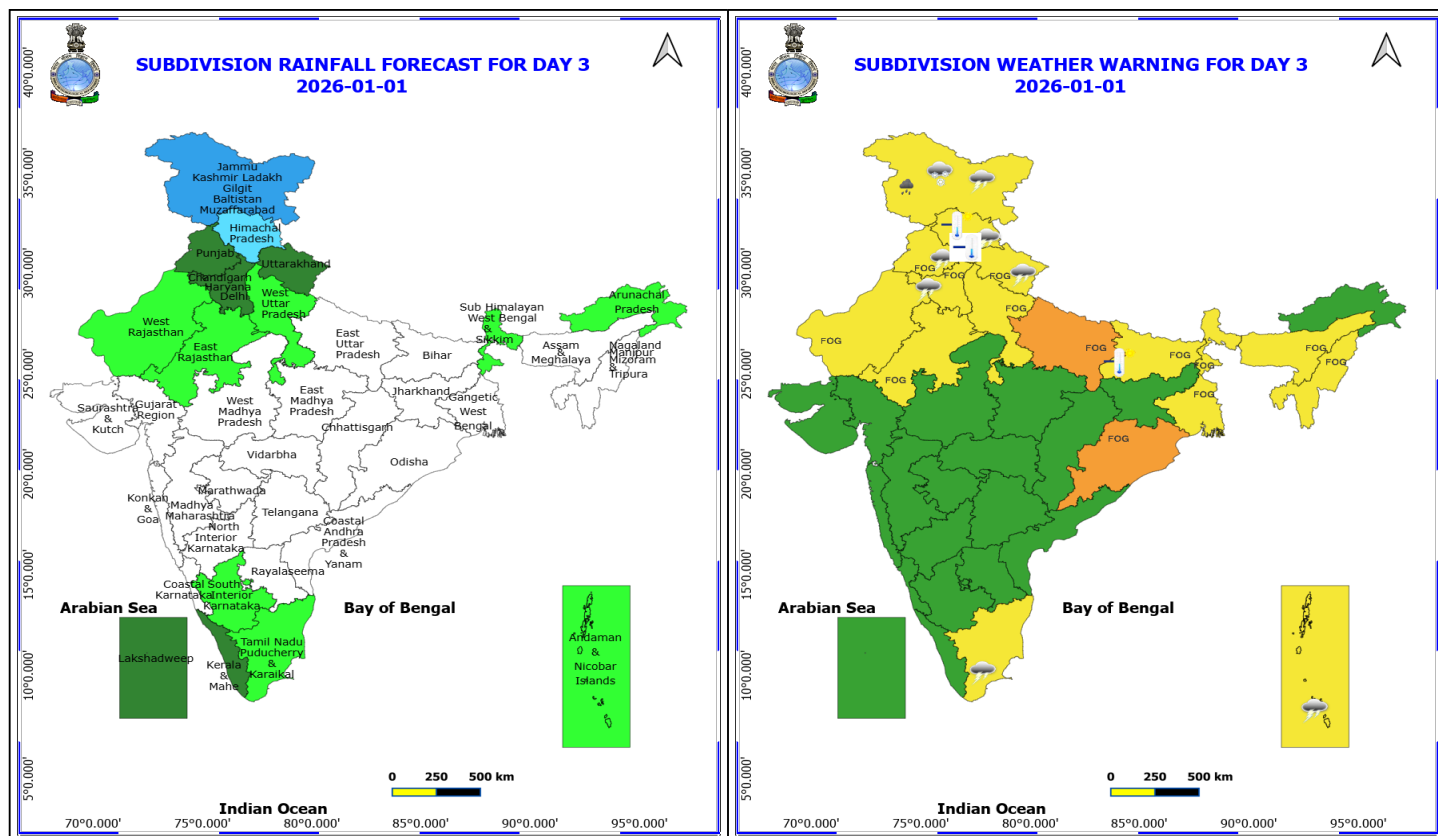
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## 1 January (Day 3)

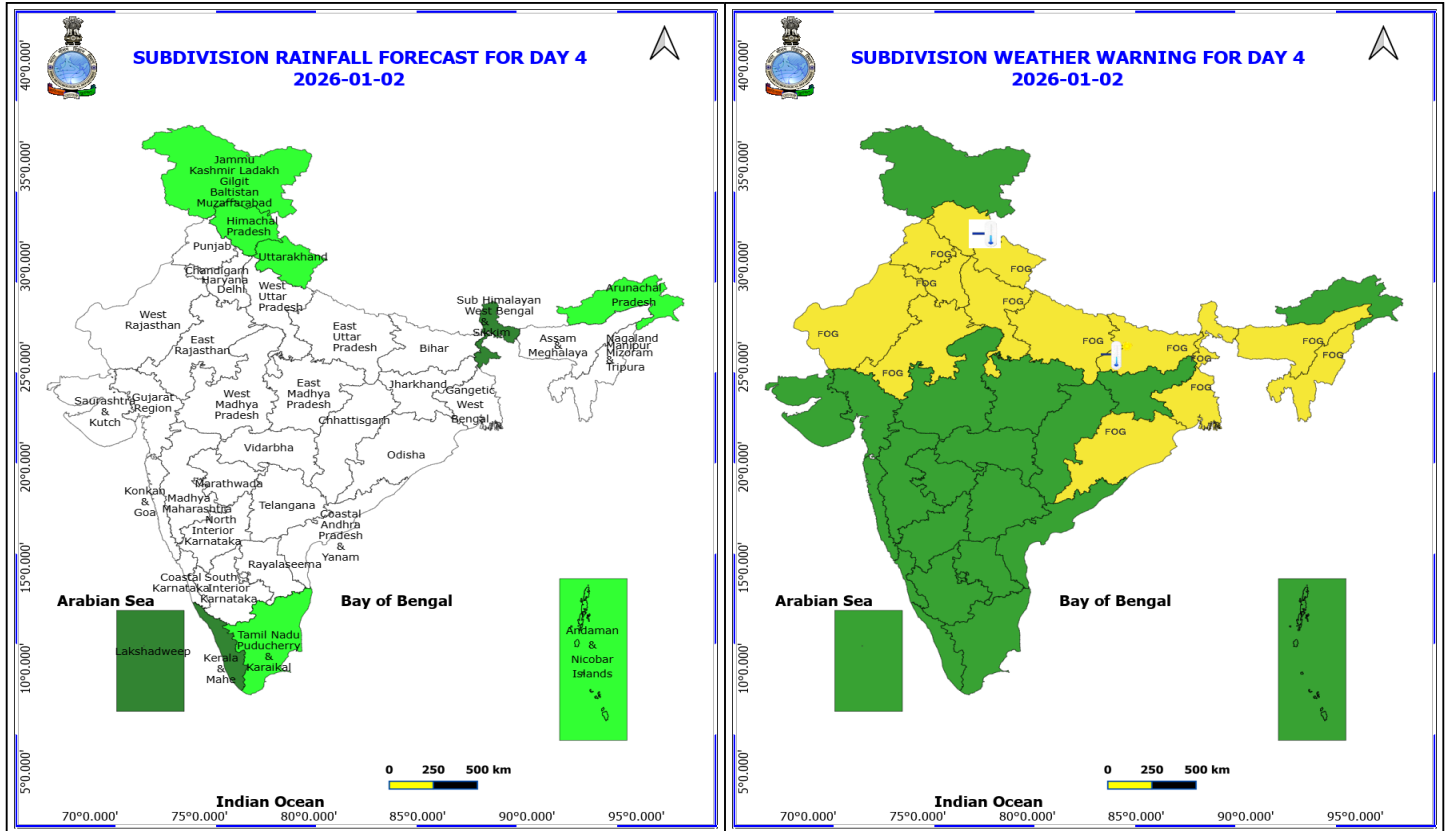
- ❖ **Heavy Rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heavy Snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar and Himachal Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, Rajasthan, Uttarakhand, West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over East Uttar Pradesh and Odisha.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia coast.

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## 2 January (Day 4)

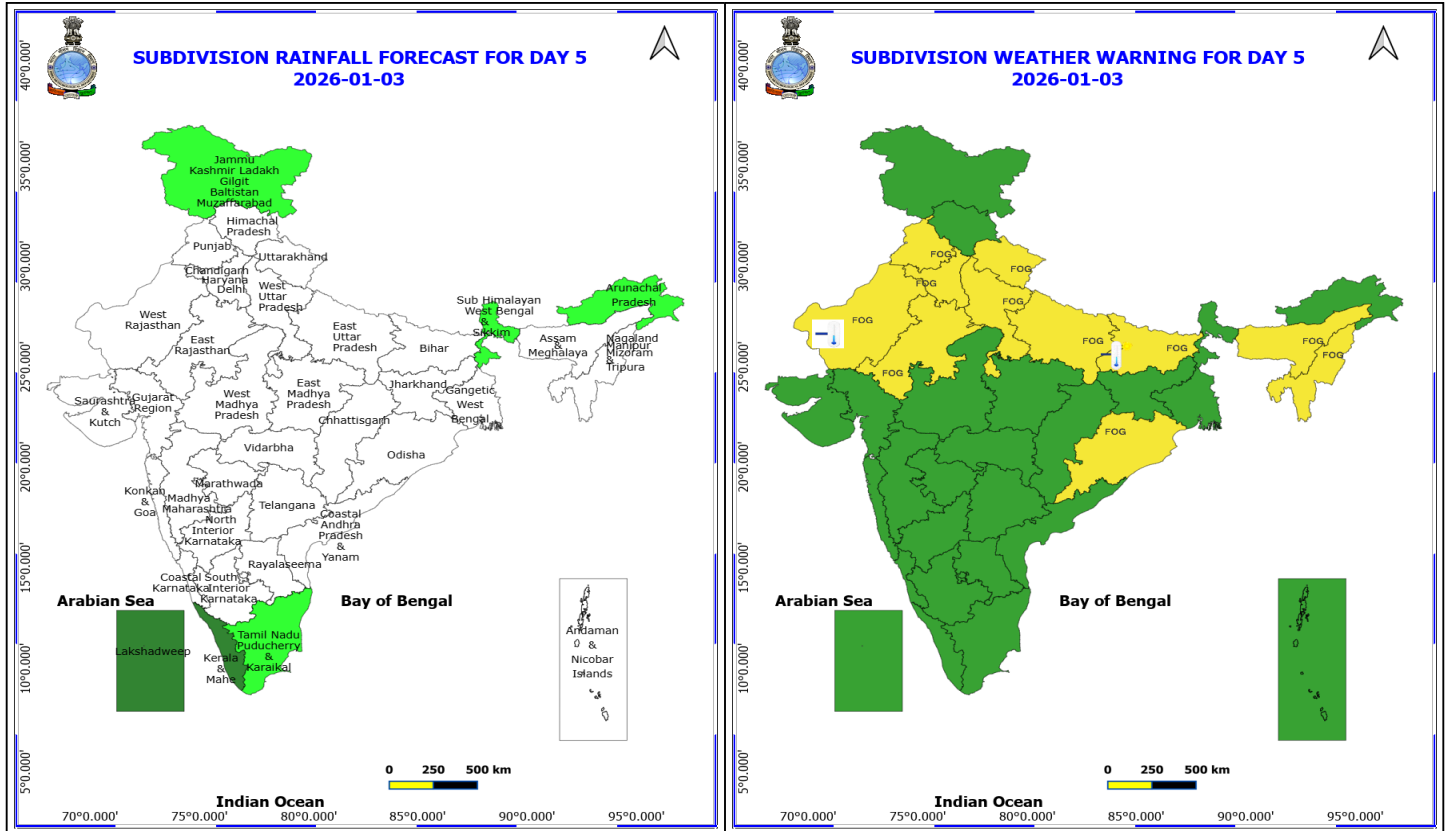
- ❖ **Cold wave conditions** likely at isolated places over Himachal Pradesh.
- ❖ **Cold Day conditions** likely at isolated places over Bihar.
- ❖ **Dense Fog** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand and West Bengal & Sikkim.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia coast, over Gulf of Mannar & adjoining, some parts of Comorin area.

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### 3 January (Day 5)

- ❖ **Cold wave conditions** likely at isolated places over West Rajasthan.
- ❖ **Cold Day conditions** likely at isolated places over Bihar.
- ❖ **Dense Fog** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia coast, over Gulf of Mannar & adjoining, some parts of Comorin area.

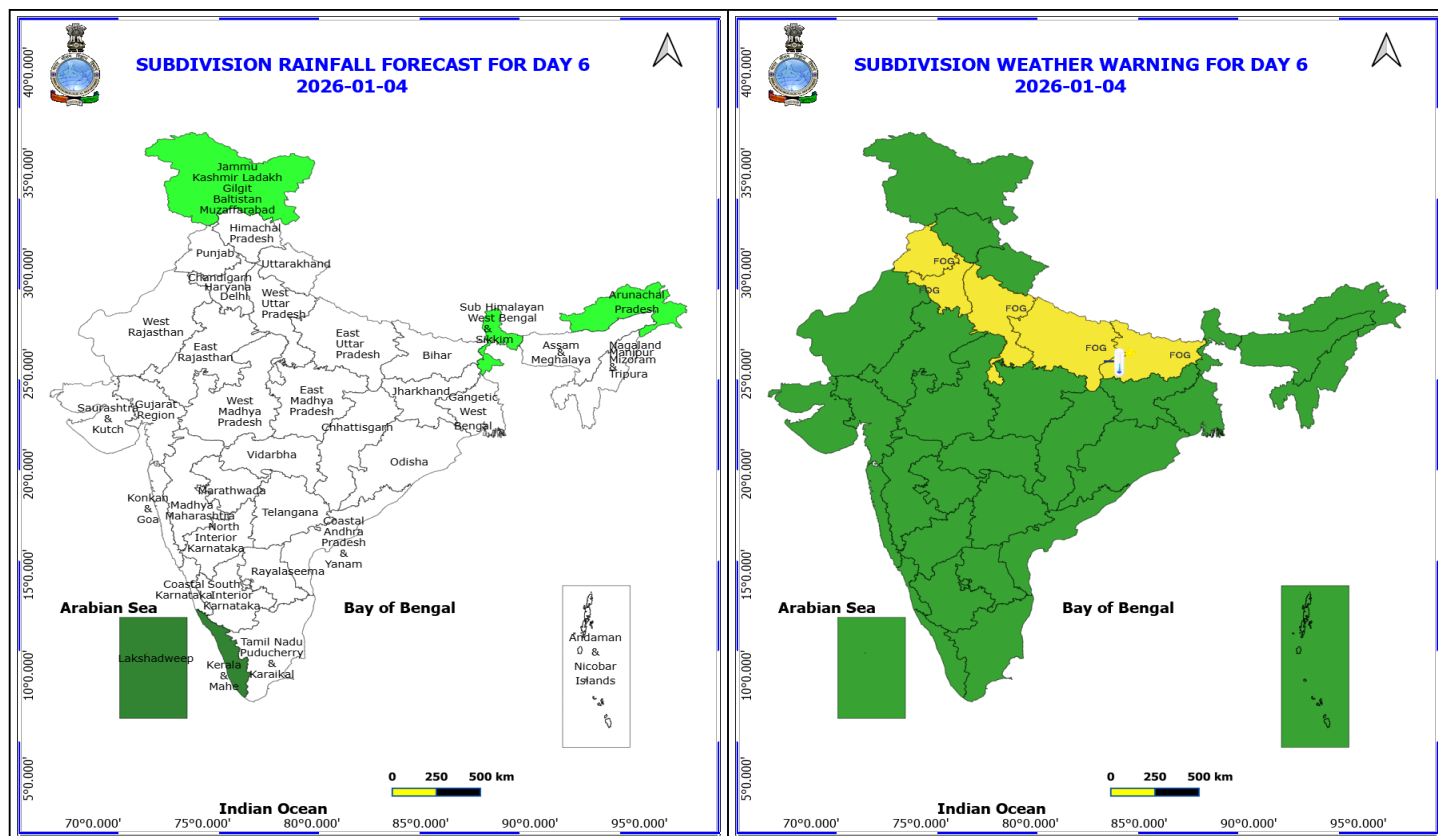
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#### 4 January (Day 6)

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

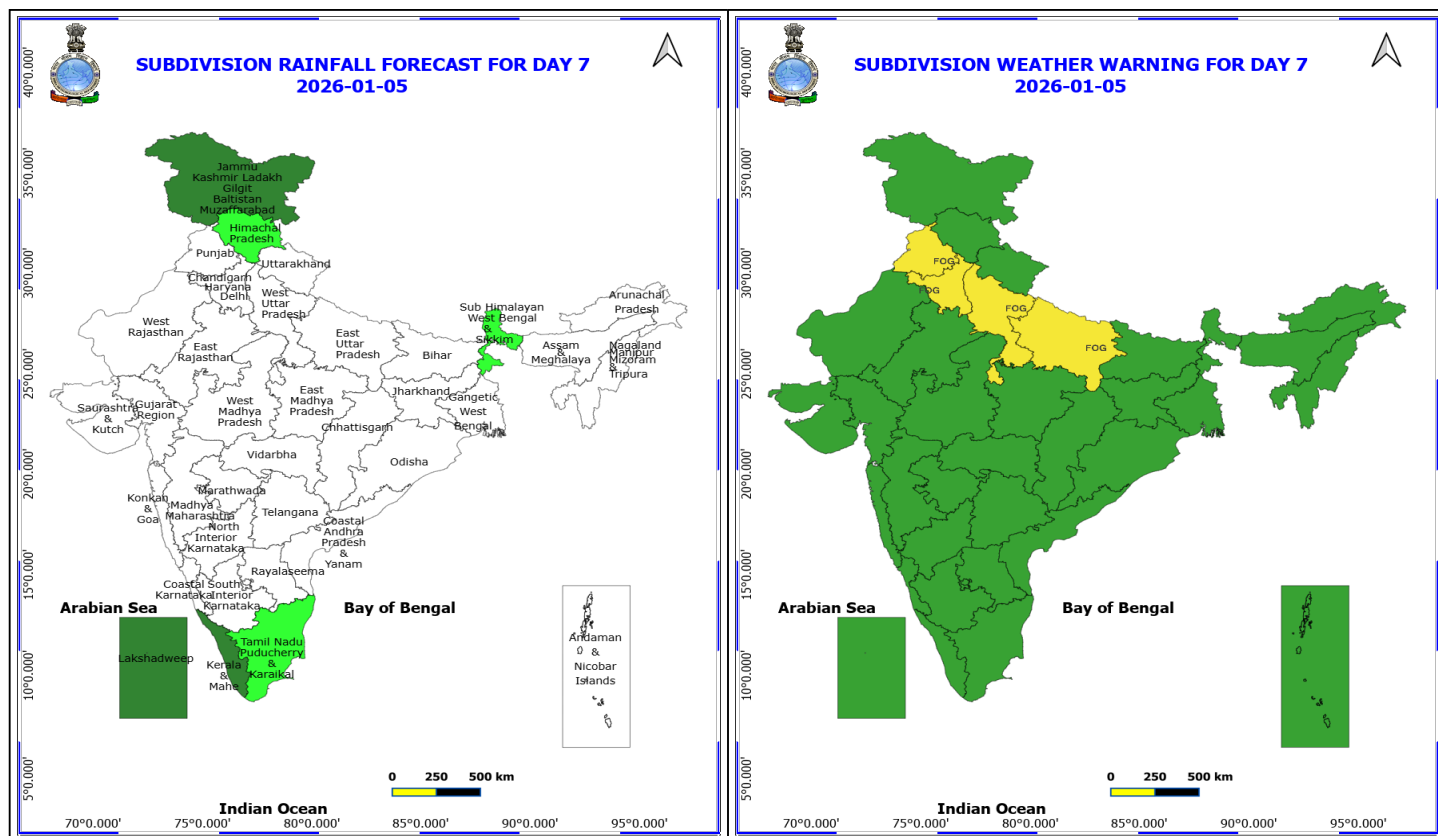
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## 5 January (Day 7)

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

**No Fishermen Warning**



**Table-1**

## 7 Days Rainfall Forecast

S.No.	Subdivision	30- Dec	31- Dec	1- Jan	2- Jan	3- Jan	4- Jan	5- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
2	ARUNACHAL PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
3	ASSAM & MEHGHALAYA	ISOL	DRY	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	SCT	ISOL	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	ISOL	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	SCT	SCT	ISOL	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	SCT	SCT	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	SCT	SCT	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	FWS	FWS	ISOL	DRY	DRY	ISOL
16	JAMMU AND KASHMIR AND LADAKH	WS	WS	WS	ISOL	ISOL	ISOL	SCT
17	WEST RAJASTHAN	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	ISOL	ISOL	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	ISOL	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	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	DRY	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	ISOL	ISOL	DRY	DRY	DRY	DRY
35	KERALA	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHDWEEP	SCT	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 2025-12-30

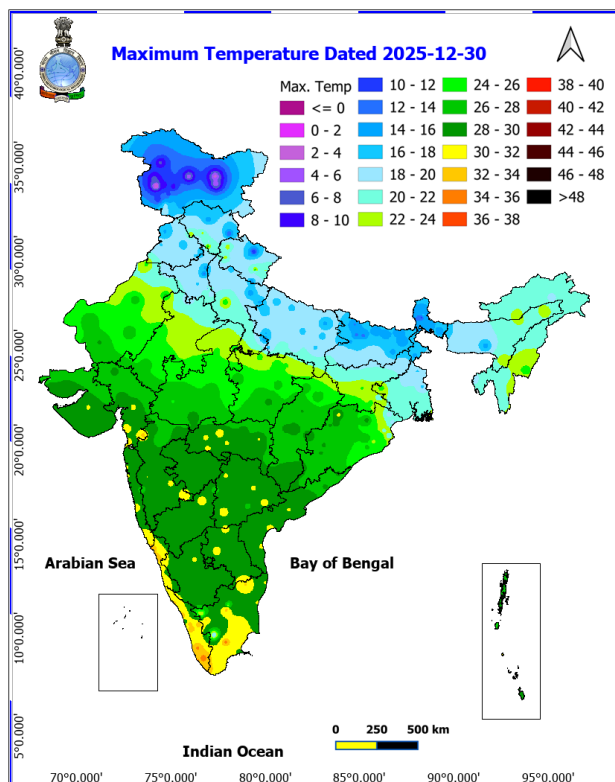


Fig. 2: Departure of Maximum Temp. Dated 2025-12-30

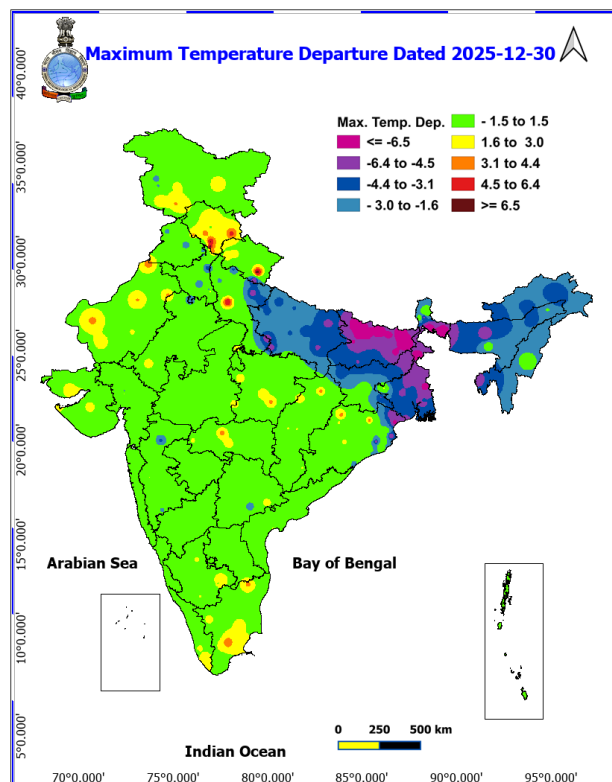


Fig. 3: Minimum Temperatures Dated 2025-12-30

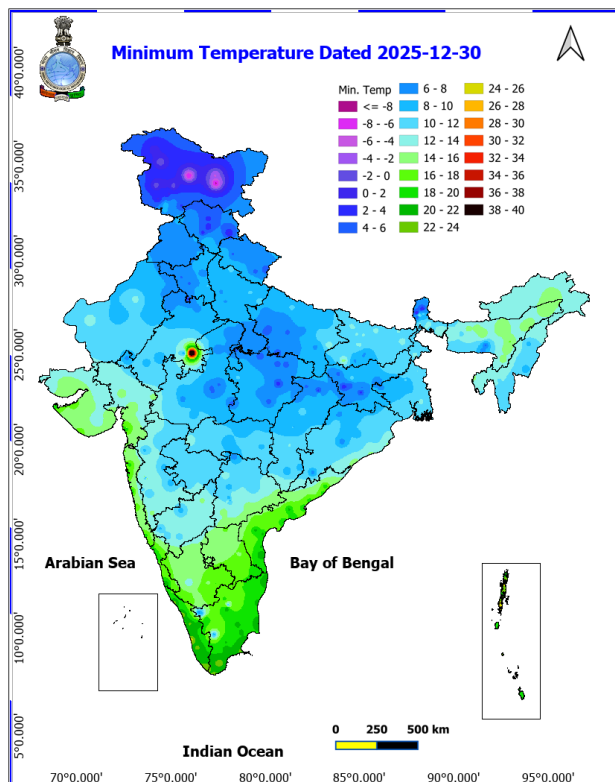
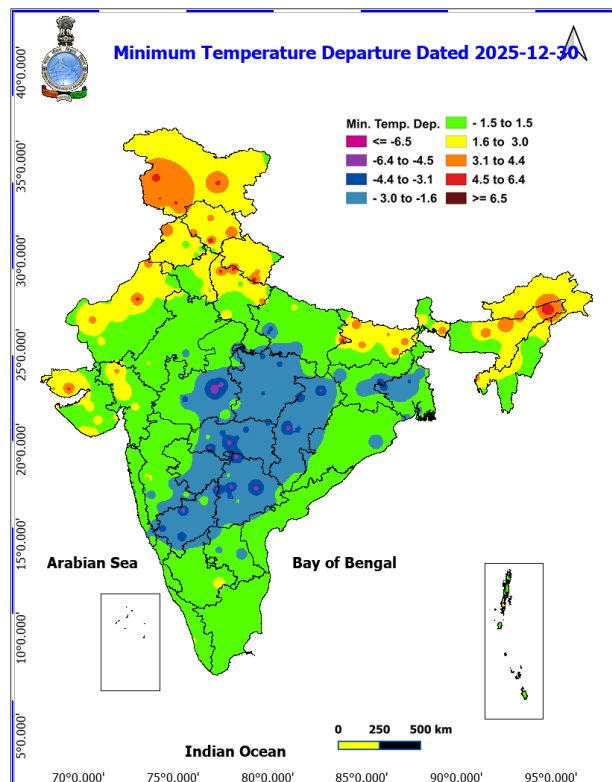
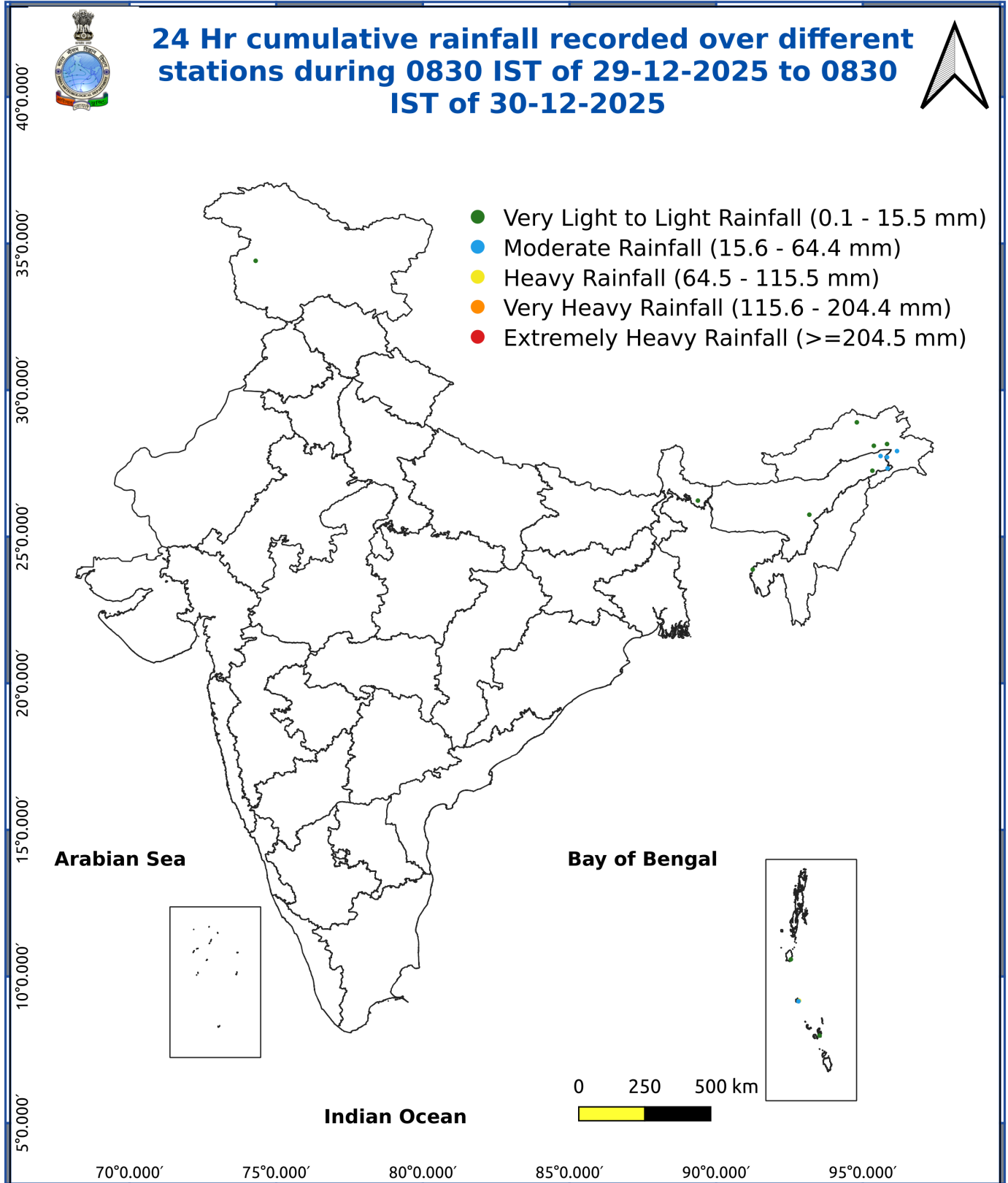


Fig. 4: Departure of Minimum Temp. Dated 2025-12-30





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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 31<sup>st</sup> Dec; East Uttar Pradesh till 01<sup>st</sup> Jan; Odisha during 31<sup>st</sup> Dec– 02<sup>nd</sup> Jan.

**Dense fog** conditions also likely during night/morning hours at isolated pockets over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh, Uttar Pradesh and Bihar till 5<sup>th</sup> Jan; Delhi till 31<sup>st</sup> Dec; Arunachal Pradesh till 31<sup>st</sup> Dec and Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura till 3<sup>rd</sup> Jan; Sub-Himalayan West Bengal & Sikkim; Odisha till 3<sup>rd</sup> Jan and Gangetic West Bengal during 31<sup>st</sup> Dec- 03<sup>rd</sup> Jan and Jharkhand till 31<sup>st</sup> 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 East Madhya Pradesh, Jharkhand and Chhattisgarh till 31<sup>st</sup>; West Rajasthan on 02<sup>nd</sup> & 03<sup>rd</sup> and Himachal Pradesh during 31<sup>st</sup> Dec -03<sup>rd</sup>; Telangana and North Interior Karnataka till 01<sup>st</sup> 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 needs immediate medical attention and treatment.

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- 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.

- **Cold day to Severe cold day** conditions very likely at some pockets over Uttar Pradesh on 30<sup>th</sup> Dec and Bihar on 30<sup>th</sup> & 31<sup>st</sup> Dec and **Cold day conditions** very likely at isolated pockets over Himachal Pradesh on 31<sup>st</sup> Dec & 01<sup>st</sup> Jan; Uttarakhand on 30<sup>th</sup>; Bihar during 01<sup>st</sup> -04<sup>th</sup> Jan; Jharkhand on 30<sup>th</sup>; Madhya Pradesh on 30<sup>th</sup> Dec; West Uttar Pradesh on 30<sup>th</sup> and East Uttar Pradesh during 30<sup>th</sup> -31<sup>st</sup> 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 **Himachal Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, 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.

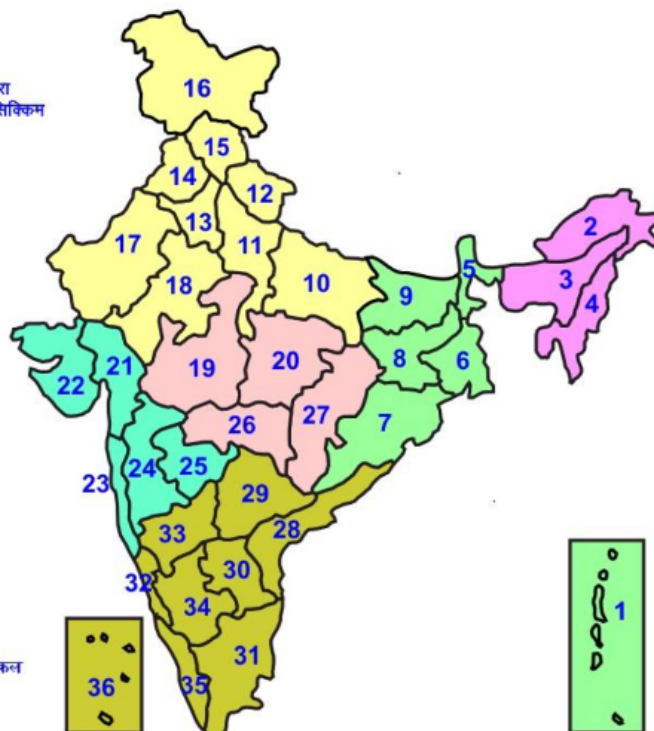
Keep the chicks warm by providing artificial light in the poultry sheds.

#### **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. 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)


### 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT (BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING (NO ACTION)</b>

### 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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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