



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Monday, January 06, 2025 Time of Issue: 2000 hours IST (NIGHT)

All India Impact Based Weather Warning Bulletin

Weather Warnings for next 7 days is given below: (Graphics for warnings & rainfall distribution (Table 1) are given below the text:

06th January (Day 1):

- ❖ Dense to very dense fog conditions very likely in some parts of Uttar Pradesh and in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, Bihar, Odisha and dense fog conditions in isolated pockets of Himachal Pradesh, Uttarakhand, Rajasthan, West Bengal & Sikkim, Jharkhand during night/morning hours.
- Cold day to severe cold day conditions very likely in isolated pocked of Uttar Pradesh; Cold day in isolated pockets of Rajasthan.
- **❖ Thunderstorm accompanied with hailstorm & lightning** very likely at isolated places over Uttarakhand and West Uttar Pradesh; **with lightning** at isolated places over Uttarakhand.
- ❖ Squally wind with speed 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail, along and off Somalia coast & adjoining southwest Arabian sea, over Comorin area and adjoining Gulf of Mannar. Fisherman are advised not to venture in to these areas.

07th January (Day 2):

- ❖ Dense to very dense fog conditions very likely in some parts of Uttar Pradesh and in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, Odisha and dense fog conditions in isolated pockets of Himachal Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim during night/morning hours.
- **❖ Cold day to severe cold day** conditions very likely in isolated pocked of Uttar Pradesh; **Cold day** in isolated pockets of Rajasthan.
- ❖ Thunderstorm accompanied with hailstorm & lightning very likely at isolated places over Sikkim, Arunachal Pradesh, Assam & Meghalaya; with lightning at isolated places over and Nagaland, Manipur, Mizoram & Tripura.
- ❖ Squally wind with speed 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail, along and off Somalia coast & adjoining southwest Arabian sea, over Comorin area and adjoining Gulf of Mannar. Fisherman are advised not to venture in to these areas.





08th January (Day 3):

- ❖ **Dense to very dense fog conditions** very likely in some parts of Uttar Pradesh and in isolated pockets of Punjab, Haryana-Chandigarh-Delhi and **dense fog conditions** in isolated pockets of Himachal Pradesh, Bihar during night/morning hours.
- **Cold day to severe cold day** conditions very likely in isolated pocked of Uttar Pradesh.
- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

09th January (Day 4):

- ❖ Dense to very dense fog conditions likely in isolated pockets of Uttar Pradesh and dense fog conditions in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during night/morning hours.
- **Cold day** conditions likely in isolated pocked of Uttar Pradesh.

10th January (Day 5):

❖ **Dense fog conditions** very likely in isolated pockets of Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during night/morning hours.

11th January (Day 6):

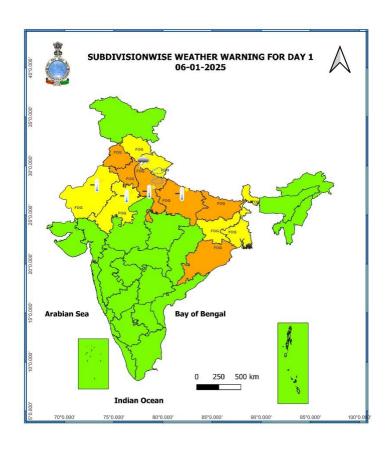
❖ No Weather Warning.

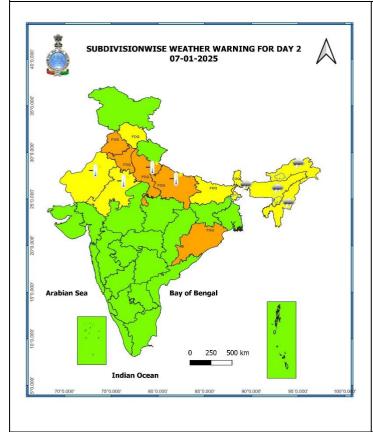
12th January (Day 7):

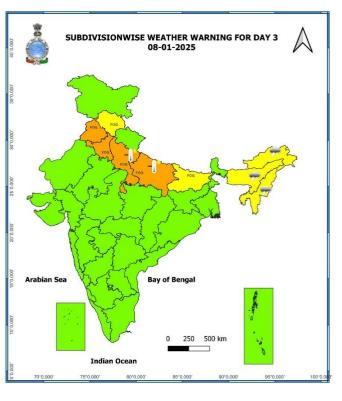
❖ No Weather Warning.







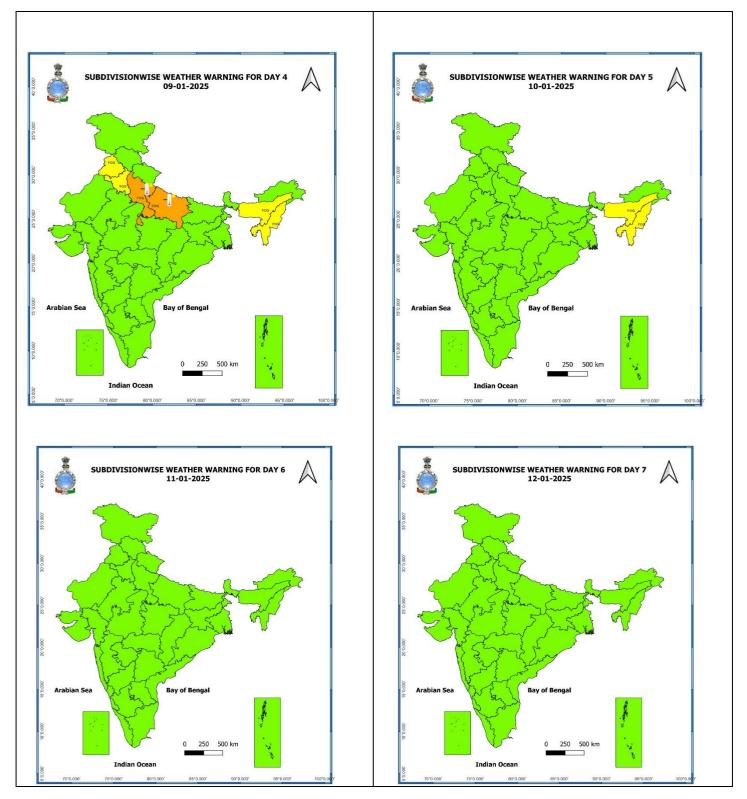








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- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



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Table-1

	7 Days Rai	nfall Fore	cast					
S. No.	Subdivision	06- Jan Day 1	07- Jan Day 2	08- Jan Day 3	09- Jan Day 4	10- Jan Day 5	11- Jan Day 6	12- Jan Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	ISOL	ISOL	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	FWS	FWS	ISOL	DRY	DRY	ISOL
3	ASSAM & MEGHALAYA	DRY	SCT	SCT	ISOL	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	SCT	ISOL	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	SCT
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	SCT	SCT
12	UTTARAKHAND	ISOL	ISOL	DRY	DRY	DRY	SCT	FWS
13	HARYANA CHANDIGARH & DELHI	ISOL	DRY	DRY	DRY	ISOL	SCT	SCT
14	PUNJAB	ISOL	DRY	DRY	DRY	ISOL	SCT	SCT
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	ISOL	ISOL	DRY
16	JAMMU & KASHMIR AND LADAKH	FWS	DRY	DRY	DRY	DRY	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	SCT
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
25	MARATHAWADA	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
26	VIDARBHA	DRY						
27	CHHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH & YANAM	DRY						
29	TELANGANA	DRY						
30	RAYALASEEMA	DRY						
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
32	COASTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA & MAHE	ISOL						
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	DRY	DRY

• As the lead period increases forecast accuracy decreases.





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

- 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/Severe Cold day conditions

- 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 Woolen 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.





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Agromet advisories for likely impact of Hailstorm / Cold Wave

- > Shake the fruit bearing trees to remove snow from the branches in Jammu & Kashmir and Himachal Pradesh.
- > Use hail nets to protect orchards and vegetable plants in Sikkim, Arunachal Pradesh, Assam and Meghalaya.
- ➤ Provide mechanical support to horticultural crops and staking to vegetables.

Livestock

- ➤ Keep the animals inside the shed during heavy rainfall period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.
- To protect from cold, keep cattle inside the sheds during night and provide dry bedding. Also keep the chicks warm by providing artificial light in the poultry sheds.

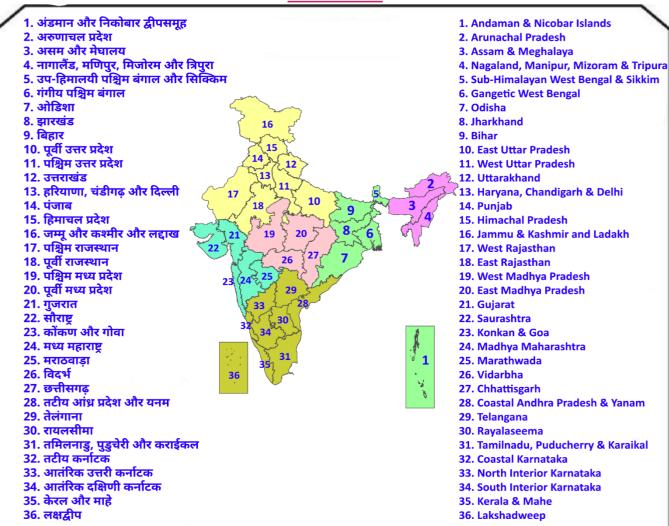
Legends & abbreviations:

- **♦ Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ Obsy.: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist.: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- **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.
 - **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.



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LEGENDS



SPATIAL DISTRIBUTION (% of Stations reporting)

	76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)	
	51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)	
	Fog	Reavy Snow	_ Cold Wa	COLOUR CODED WARNING	
_				No Warning (No Action)	
0	🦰 Heavy Ra	nin 👙 Dust Storm	Cold Da	Watch (Be Aware)	İ
7	Nery Hea	yy Rain + Heat Wave	Ground	Alert (Be Prepared To Take Action)	

% Stations

Very Heavy Rain

Fytromoly Heavy Rain

Warm Night

Category

Extremely Heavy Rain + Warm Night

Thunder & Lightning + Hot Day

% Stations

Probabilistic Forecast

Warning (Take Action)

Category



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	DEFINITION/CRITERIA
*	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm *
Rain/ Snow *	Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions
	(a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
Heat Wave	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
neat wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Cold Wave	
	(b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C
	(c) For Coastal Stations
	When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cald Dav	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres
	very belise rog. when the visionity < 50 metes
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.
	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
1	
	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Squall	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
Sea State	High to very high: Wind speed 41-62 kmph (22-33 knots) & Wave height 6-14 metre
Sea State	
Sea State	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
Sea State	
Sea State	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Sea State Cyclone	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)