



**Government of India  
Earth System Science Organization  
Ministry of Earth Sciences  
India Meteorological Department**

**Press Release  
Date 25<sup>th</sup> December, 2020  
Time of Issue: 1500 hrs IST**

**Subject: Precipitation over Western Himalayan Region and adjoining plains of Northwest India during 27<sup>th</sup>-28<sup>th</sup> December and fresh Cold wave spell over the plains of Northwest and adjoining Central India during subsequent days.**

**Weather System:**

A fresh Western Disturbance likely to affect Western Himalayan Region and adjoining plains of northwest India from 27<sup>th</sup> Dec.

**Rainfall/Snowfall Forecast:**

- i) Scattered to Fairly widespread rainfall/snowfall over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad;
- ii) Isolated to scattered rainfall/snowfall over Himachal Pradesh, Uttarakhand and
- iii) Isolated rain/thundershowers over Punjab and Haryana, Chandigarh during 27<sup>th</sup>-28<sup>th</sup> December, 2020.

**Cold wave/Cold Day and Dense Fog Scenario of Today and Forecast:**

**Cold Wave:** Today Cold Wave to severe cold wave conditions observed in isolated pockets over Punjab and cold wave conditions in isolated pockets over Haryana. **It is likely to abate from 27 Dec due to a likely impact of Western Disturbances on the same date. (Refer forecast table)**

**Cold Day:** Today No cold day conditions observed over any areas of the country.

**(For actual observed Maximum, minimum Temperature, their 24h-tendencies and departure from normal for major cities of already cold spell affected areas, refer Table 1 and 2)**

**Dense Fog** observed (at 0530 & 0830 hours IST of today): Dense to very dense fog in a few pockets over Punjab and at isolated places over Haryana. Visibility recorded (at 0830 hours IST of today) (500 meters or less): Amritsar, Ludhiana and Patiala-25 m; Gwalior, Delhi Ridge and Nowgong-200 m each; Bhiwani, Delhi Palam, Aligarh, Gwalior, Kota, Lucknow, Fursatganj, Varanasi, Patna, Jamshedpur, Panagarh, Silchar, Agartala and Imphal-500 m each. **Dense fog conditions over Punjab and Haryana likely to improve further from 27 Dec 2020 under impact of WD.**

**Temperature Forecast:**

- ◆ Gradual rise by 2-3°C in minimum temperatures during next 3 days (25<sup>th</sup>-27<sup>th</sup>) and then fall by 3-

5°C in minimum temperatures over Northwest India during subsequent 3 days (28th-30th) .

◆ No significant change in maximum temperatures during next 3 days (25th-27th) and then fall by 3-5°C in maximum temperatures over Northwest India during subsequent 3 days (28th-30th).

◆ Gradual rise in minimum temperatures by 2-3°C over West & Central India during next 2-3 days and fall by 2-3°C during subsequent 3 days.

◆ No significant change in minimum temperatures over remaining parts of the country during next 4-5 days.

**Cold Wave and Ground frost Warning:**

◆ After the passage of the WD, Under the influence of strengthening of cold & dry northwesterly/northerly winds from night of 28 Dec :

i) **Cold Wave to Severe Cold Wave conditions** are likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi and **Cold Wave conditions** in isolated pockets over Uttar Pradesh, north Rajasthan and north Madhya Pradesh from 28th-29th December, 2020.

ii) **Ground Frost conditions** are likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Himachal Pradesh and north Rajasthan also from 28th-29th December, 2020.

**Fog Warning:**

◆ Fresh spell of Dense to very dense fog in isolated pockets very likely over Punjab and isolated Dense fog over Haryana and Delhi in the morning hours from 29th December, 2020.

**Detailed forecast & warnings are as follow:**

Sub-Divisions	25 Dec. 2020*	26 Dec. 2020*	27 Dec. 2020*	28 Dec. 2020*	29 Dec. 2020*
Jammu, Kashmir, Ladakh, Baltistan & Muzaffarabad	Rain/Snow at isolated places	Rain/Snow at isolated places	Rain/Snow at a few places	Rain/Snow at many places	Rain/Snow at isolated places
Uttarakhand	Dry	Dry	Rain/Snow at isolated places	Rain/Snow at isolated places	Dry
Himachal Pradesh	Dry	Rain/Snow at isolated places	Rain/Snow at isolated places	Rain/Snow at a few places	Dry
Punjab	Cold Wave to Severe Cold Wave Conditions at isolated places and Dense to very Dense fog in isolated pockets	Cold Wave Conditions at isolated places	Dry	Cold Wave to Severe Cold Wave Conditions at isolated places	Cold Wave to Severe Cold Wave Conditions at isolated places
Haryana, Chandigarh & Delhi	Cold Wave Conditions at isolated places and Dense fog in isolated pockets	Dry	Dry	Cold Wave to Severe Cold Wave Conditions at isolated places	Cold Wave to Severe Cold Wave Conditions at isolated places
North Rajasthan	Dry	Dry	Dry	Dry	Cold Wave Conditions at isolated places

<b>West Uttar Pradesh</b>	Dry	Dry	Dry	Cold Wave Conditions at isolated places	Cold Wave Conditions at isolated places
<b>East Uttar Pradesh</b>	Dry	Dry	Dry	Dry	Cold Wave Conditions at isolated places

**Impact expected and action suggested due to Cold Wave/Severe cold wave conditions over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and north Rajasthan from 28<sup>th</sup> December, 2020.**

**Impact expected:**

- 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, water supply, transport and power sector at some places.

**Action suggested:**

- Moisturize your skin regularly with oil/cream.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Don't drink alcohol. It reduces your body temperature.
- 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.



Today  
25/12/2020



Tomorrow  
26/12/2020



27/12/2020



28/12/2020



29/12/2020

**Note: \* Warning till 0830 IST of next day.**

**Legends: Yellow: Be updated, Orange- Be prepared; Red- Take action, Green: No warning**

#### **A. Conditions for Cold Wave:**

When minimum temperature of a station is 10°C or less for plains and 0°C or less for Hilly regions and fulfils any of the following criteria:

##### **I) Based on Departure of Minimum Temperatures from Normal**

Cold Wave: When the Departure is -4.5°C to -6.4°C

Severe Cold Wave: When the Departure is > -6.4°C

##### **II) Based on Actual Minimum Temperature (For plain stations only)**

Cold Wave: When minimum temperature is  $\leq 4^{\circ}\text{C}$

Severe Cold Wave: When minimum temperature is  $\leq 2^{\circ}\text{C}$

##### **III) For coastal stations:**

When the Departure of Minimum Temperature is -4.5°C or less and Minimum Temperature is 15°C or less.

#### **B. Conditions for Cold Day:**

When minimum temperature is 10°C or less for plains and 0°C or less for Hilly regions and fulfils following criteria:

Cold day: Maximum Temperature Departure is -4.5°C to -6.4°C

Severe Cold day: Maximum Temperature Departure is < -6.4°C

Table 1: Maximum Temp.,Tendency and Departure over the Plains of North India Dated 24.12.2020

Station	Maximum Temperatures	24 hours Tendency	Departures
<b>Delhi</b>			
Palam	20.3	-0.5	-1.2
Safdarjung	23.1	-0.2	1.5
Ridge	22.4	-0.6	-
Ayanagar	22.8	-0.4	-
<b>Haryana &amp; Chandigarh</b>			
Chandigarh	21.5	0.0	0.5
Ambala	21.1	-0.3	0.6
Karnal	21.0	1.0	0.3
Hissar	21.5	-0.1	-0.3
Narnaul	24.2	-	1.7
Rohtak	18.8	1.0	-3.3
<b>Punjab</b>			
Amritsar	17.0	-2.8	-3.0
Ludhiana	21.4	0.2	1.3
Patiala	22.0	-0.2	1.9
<b>West Rajasthan</b>			
Ganganagar	23.9	-1.1	2.6
Churu	24.5	-1.2	1.1
Bikaner	25.2	-0.5	1.0
Jaisalmer	25.3	-0.7	1.6
Barmer	27.4	-1.3	1.0
<b>East Rajasthan</b>			
Jaipur	23.4	-1.5	-0.1
Ajmer	24.4	-1.4	-0.5
Kota	24.5	0.2	0.1
Bhilwara	25.0	-0.6	0.6
Udaipur	25.2	-0.4	0.3
Chittorgarh	26.6	-1.0	1.1
<b>West Uttar Pradesh</b>			

<b>Meerut</b>	<b>23.1</b>	<b>0.1</b>	<b>0.6</b>
<b>Bareilly</b>	<b>20.7</b>	<b>-0.6</b>	<b>-1.5</b>
<b>Shahjahanpur</b>	<b>23.0</b>	<b>-0.5</b>	<b>0.7</b>
<b>Jhansi</b>	<b>24.5</b>	<b>-1.6</b>	<b>1.0</b>
<b>East Uttar Pradesh</b>			
<b>Bahraich</b>	<b>23.2</b>	<b>-0.2</b>	<b>-0.7</b>
<b>Gorakhpur</b>	<b>23.4</b>	<b>0.1</b>	<b>-1.0</b>
<b>Lucknow</b>	<b>23.5</b>	<b>-0.8</b>	<b>0.0</b>
<b>Varanasi</b>	<b>24.4</b>	<b>0</b>	<b>-</b>
<b>Banda</b>	<b>23.4</b>	<b>-0.4</b>	<b>-0.7</b>
<b>West Madhya Pradesh</b>			
<b>Guna</b>	<b>26.6</b>	<b>-0.1</b>	<b>1.3</b>
<b>Rajgarh</b>	<b>25.2</b>	<b>-0.3</b>	<b>-1.6</b>
<b>Dhar</b>	<b>26.8</b>	<b>-0.9</b>	<b>-0.8</b>
<b>Khandwa</b>	<b>29.5</b>	<b>-1.0</b>	<b>0.0</b>
<b>Indore</b>	<b>28.4</b>	<b>0.4</b>	<b>1.3</b>
<b>Bihar</b>			
<b>Chapra</b>	<b>20.1</b>	<b>-0.1</b>	<b>-3.3</b>
<b>Patna</b>	<b>25.2</b>	<b>1.6</b>	<b>1.5</b>
<b>Bhagalpur</b>	<b>24.5</b>	<b>1.5</b>	<b>-0.8</b>
<b>Purnea</b>	<b>24.0</b>	<b>2.3</b>	<b>-0.9</b>
<b>Gaya</b>	<b>24.3</b>	<b>1.0</b>	<b>0.5</b>
<b>Muzaffarpur</b>	<b>22.0</b>	<b>0.8</b>	<b>-1.7</b>

**Table 2: Minimum Temperatures, their Departure and 24 hours Tendency over the Plains of North India**  
**Dated: 25.12.2020**

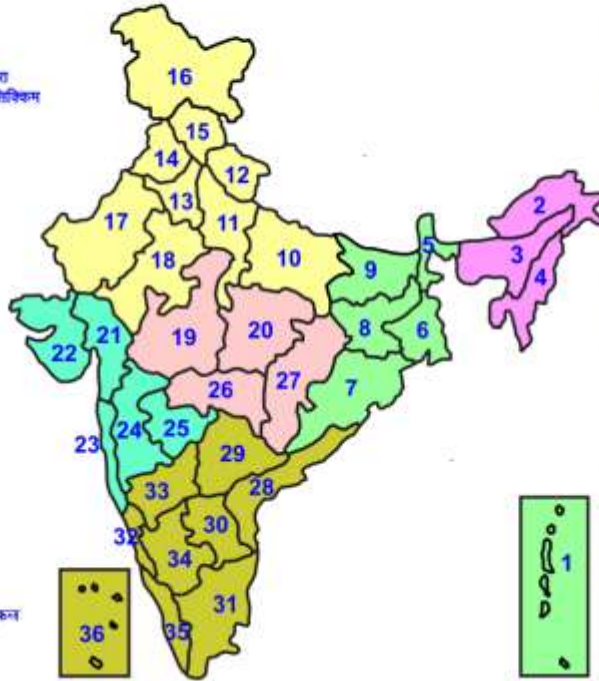
<b>Station</b>	<b>Minimum Temperature</b>	<b>Departure from Normal</b>	<b>24 Hour Tendency</b>
<b>Delhi</b>			
Palam	6.9	-0.9	-0.6
Safdarjung	4.6	-3.4	0.1
Lodhi Road	4.8	-2.0	-
Ridge	7.9	0	-0.7
Ayanagar	7.4	-1.0	-1.6
<b>Haryana &amp; Chandigarh</b>			
Chandigarh	4.4	-1.7	-0.3
Ambala	6.0	-0.8	+0.3
Karnal	-	-	-
Hissar	2.5	-4.5	-0.8
Narnaul	3.7	-2.4	-0.9
Rohtak	4.2	-2.3	-0.4
<b>Punjab</b>			
Amritsar	2.4	-1.7	-1.7
Ludhiana	1.6	-5.7	-0.5
Patiala	4.0	-3.1	+1.6
<b>West Rajasthan</b>			
Ganganagar	5.8	-0.2	-2.0
Churu	3.7	-1.1	-1.1
Bikaner	12.6	5.4	-0.2
Jaisalmer	11.5	2.9	0.5
Barmer	12.4	1.2	0.3
<b>East Rajasthan</b>			
Jaipur	9.3	0.6	-0.1
Ajmer	11.0	2.4	0.5
Kota	8.1	-3.8	-1.4
Bhilwara	7.0	-1.1	0.5
Udaipur	8.0	0.5	-
Chittorgarh			



<b>West Uttar Pradesh</b>			
<b>Meerut</b>	<b>6.4</b>	<b>-1.4</b>	<b>0.1</b>
<b>Bareilly</b>	<b>4.9</b>	<b>-4.4</b>	<b>-0.6</b>
<b>Shahjahanpur</b>	<b>9.0</b>	<b>1.6</b>	<b>-0.5</b>
<b>Jhansi</b>	<b>7.5</b>	<b>-0.4</b>	<b>-1.6</b>
<b>East Uttar Pradesh</b>			
<b>Bahraich</b>	<b>8.2</b>	<b>-1.7</b>	<b>0.2</b>
<b>Gorakhpur</b>	<b>8.2</b>	<b>-1.8</b>	<b>-1.0</b>
<b>Lucknow</b>	<b>7.5</b>	<b>-0.7</b>	<b>0</b>
<b>Varanasi</b>	<b>9.1</b>	<b>-0.6</b>	<b>0.8</b>
<b>Banda</b>	<b>5.2</b>	<b>-4.2</b>	<b>0.2</b>
<b>West Madhya Pradesh</b>			
<b>Guna</b>	<b>9.0</b>	<b>0.6</b>	<b>-1.1</b>
<b>Rajgarh</b>	<b>11.0</b>	<b>1.6</b>	<b>2.0</b>
<b>Dhar</b>	<b>9.4</b>	<b>-1.3</b>	<b>-0.2</b>
<b>Khandwa</b>	<b>10.4</b>	<b>-0.6</b>	<b>0.4</b>
<b>Indore</b>	<b>12.0</b>	<b>+1.7</b>	<b>1.7</b>
<b>Bihar</b>			
<b>Chapra</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Patna</b>	<b>9.4</b>	<b>-0.8</b>	<b>1.2</b>
<b>Bhagalpur</b>	<b>11.2</b>	<b>-1.8</b>	<b>-0.9</b>
<b>Purnea</b>	<b>10.0</b>	<b>1.2</b>	<b>-0.9</b>
<b>Gaya</b>	<b>6.3</b>	<b>-2.0</b>	<b>-0.7</b>

# LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीदाह 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 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 पश्चिम कर्नाटक
- 33 आंतरिक उपरी 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)

## 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 Rain	 Heavy Snow	 Thunderstorm	 Dust Storm
 Strong Winds	 Visibility	 Cyclone	 Squall/ Hail
 Frost	 Cold Wave	 Heat Wave	 Sea State

Kindly download **MAUSAM APP** for location specific forecast & warning, **MEGHDOOT APP** for Agromet advisory and **DAMINI APP** for Lightning Warning & visit state MC/RMC websites for district wise warning.