



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

**Press Release  
Date 01<sup>st</sup> February, 2021  
Time of Issue: 2030 hrs IST**

**Subject: (a) Wet spell over Northwest & adjoining Central India, during 03rd-05th February, 2021 and Bihar and Jharkhand 5-6 Feb, with peak activity on 3 and 4 February over Western Himalayan Hills on 4 and 5 February in the plains.**

**(b) Abatement of Cold Wave from Northwest India from 2<sup>nd</sup> Feb and dense fog, Cold Wave & Cold Day conditions from east Uttar Pradesh and Bihar from 3-4 Feb**

**Meteorological analysis:**

- The Western Disturbance as a cyclonic circulation in lower tropospheric levels lies over Afghanistan with a trough aloft with its axis at middle tropospheric levels running along Long. 60°E to the north of Lat. 32°N.
- An induced cyclonic circulation lies over central Pakistan & adjoining West Rajasthan in lower tropospheric levels.
- These systems are likely to affect weather over northwest Himalayan region from night of 2<sup>nd</sup> Feb 2021.
- The confluence of southwesterlies in association with the above Western Disturbance and lower level southeasterlies is very likely over the plains of northwest & adjoining areas of central India during 3-5 February, 2021.

**Forecast & Warnings:**

- Under the influence of above systems, Scattered to fairly widespread light to moderate rain/snow with isolated thunderstorm, lightning & hail very likely over Western Himalayan region during 2<sup>nd</sup> night to 05<sup>th</sup> February. **Isolated heavy rainfall/snowfall** is likely over Jammu & Kashmir on 3<sup>rd</sup> & 4<sup>th</sup> and over Himachal Pradesh on 4<sup>th</sup> Feb.
- Isolated to fairly widespread light to moderate rain/thundershowers with isolated lightning & hailstorm likely over plains of Northwest India during 03rd-05th February, over Madhya Pradesh during 04th-05th February and over East Uttar Pradesh, Bihar and Jharkhand

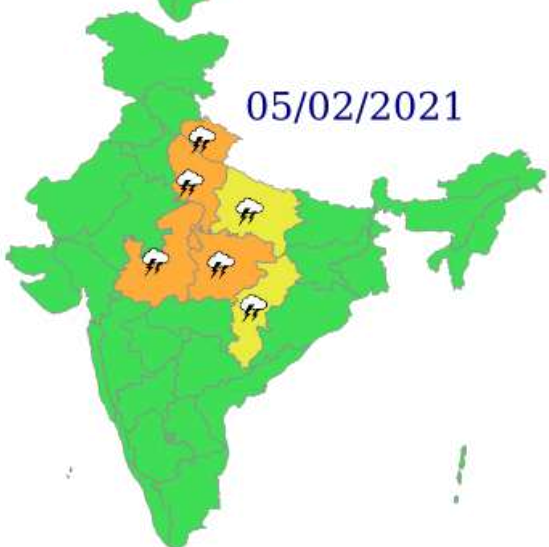
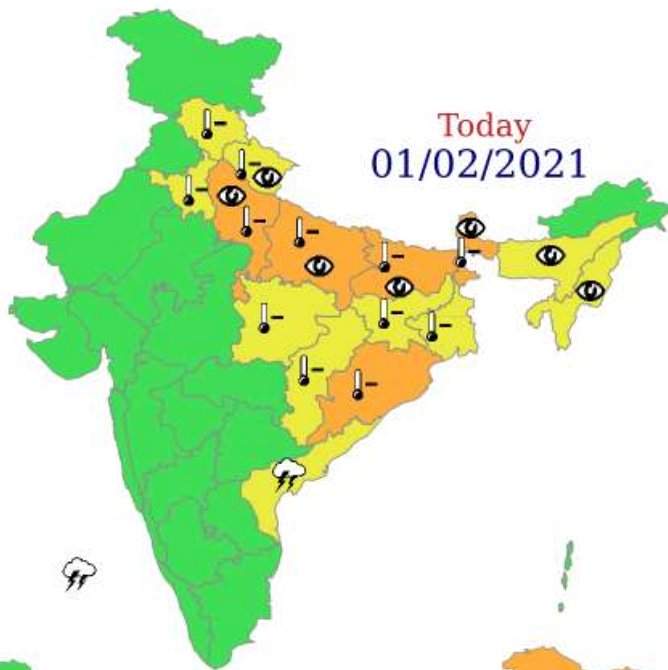
during 05th-06<sup>th</sup> February, 2021.

- Gradual rise in Minimum temperatures very likely over most parts of Northwest and adjoining Central India during next 3-4 days and the current spell of Cold Wave conditions prevailing over parts of north west India is likely to abate during next 24 hours from 2 Feb 2021. As the WD likely to move further towards northern parts of Uttar Pradesh-northern parts Bihar, by 4<sup>th</sup> Feb, current spell of cold wave, cold day, Dense to Very Dense Fog observed presently at morning at isolated to some pockets over eastern parts of Uttar Pradesh and Bihar also like to be abated/lifted from 3-4 Feb 2021.
- Refer Table 1 for date wise color coded warning.

**Table 1 Detailed forecast & warnings are as follow:**

Sub-Divisions	01 Feb. 2021	02 Feb. 2021	03 Feb. 2021	04 Feb. 2021	05 Feb. 2021
<b>Jammu &amp; Kashmir</b>	Dry	Rain/snow at isolated places	Rain/snow at many places with isolated heavy rainfall/snowfall and thunderstorm & <b>lightning/hail</b>	Rain/snow at a few places with with isolated heavy rainfall/snowfall	Dry
<b>Himachal Pradesh</b>	Dry	Rain/snow at isolated places	Rain/snow at a few places with isolated thunderstorm & <b>lightning/hail</b>	Rain/snow at many places with isolated heavy rainfall/snowfall and isolated thunderstorm & <b>lightning/hail</b>	Rain/snow at isolated places
<b>Uttarakhand</b>	Dry	Dry	Rain/snow at isolated places	Rain/snow at many places with isolated thunderstorm & <b>lightning/hail</b>	Rain/snow at many places with isolated thunderstorm & <b>lightning/hail</b>
<b>Punjab</b>	Dry	Dry	Rain/thunder showers at isolated places with isolated thunderstorm & lightning	Rain/thundershowers at many places with isolated thunderstorm & <b>lightning/hail</b>	Rain/thundershowers at isolated places

<b>Haryana, Chandigarh &amp; Delhi</b>	Dry	Dry	Rain/thundershowers at isolated places with isolated thunderstorm & lightning	Rain/thundershowers at many places with isolated thunderstorm & <b>lightning/hail</b>	Rain/thundershowers at isolated places
<b>North Rajasthan</b>	Dry	Dry	Rain/thundershowers at isolated places	Rain/thundershowers at isolated places with isolated thunderstorm & <b>lightning/hail</b>	Rain/thundershowers at isolated places
<b>West Uttar Pradesh</b>	Dry	Dry	Rain/thundershowers at isolated places	Rain/thundershowers at a few places with isolated thunderstorm & <b>lightning/hail</b>	Rain/thundershowers at a few places with isolated thunderstorm & <b>lightning/hail</b>
<b>East Uttar Pradesh</b>	Dry	Dry	Dry	Rain/thundershowers at isolated places with isolated thunderstorm & lightning	Rain/thundershowers at a few places with isolated thunderstorm & lightning
<b>West Madhya Pradesh</b>	Dry	Dry	Dry	Rain/thundershowers at isolated places	Rain/thundershowers at isolated places with isolated thunderstorm & <b>lightning/hail</b>
<b>East Madhya Pradesh</b>	Dry	Dry	Dry	Rain/thundershowers at isolated places with isolated thunderstorm & lightning	Rain/thundershowers at isolated places with isolated thunderstorm & <b>lightning/hail</b>



### **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:**

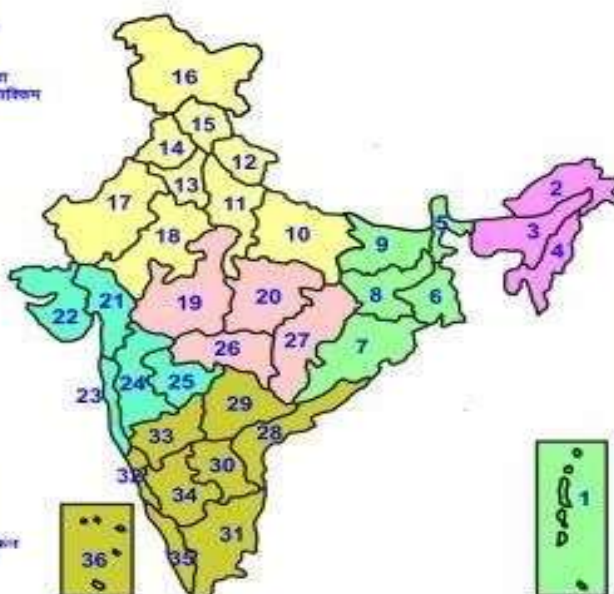
When minimum temperature is 10°C or less for plains and 0°C or less for Hilly regions and fulfils following criteria:

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

day: Maximum Temperature Departure is < -6.4°C

## 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, असम, सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तरांचल
- 13 हरियाणा, चंडीदाह और दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू और कश्मीर
- 17 राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कर्नाटक
- 24 मध्य महाराष्ट्र
- 25 महाराष्ट्र
- 26 विदर्भ
- 27 छत्तिसगढ़
- 28 आंध्र प्रदेश
- 29 तेलंगाना
- 30 कर्नाटक
- 31 उत्तरांचल, पुदुचेरी, तमिलनाडु
- 32 उत्तरांचल
- 33 उत्तरांचल
- 34 उत्तरांचल
- 35 केरल
- 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. Maharashtra
26. Vidharbha
27. Chhatisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnada, Puducherry & Karakal
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

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 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.