



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 15th January, 2023
Time of Issue: 1330 hours IST**

India Meteorological Department congratulate all of you on the occasion of 148th foundation day. You are cordially invited to join at 4:00 PM Today the 15th January 2023 either physically or online (<https://youtu.be/S7AxTOcMSSs>). Details of the program are attached herewith. (Annexure I):

Subject: Cold wave to severe cold wave conditions very likely to continue over Northwest India during 15th-18th January, 2023.

Weather observed during past 24 hours ending at 0830 hrs IST of today:

- ❖ **Rainfall/Snowfall observed:** Light rainfall/snowfall in isolated places over higher ridges of Kashmir; Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.
- ❖ **Rainfall observed:** Light rainfall at a few places over Arunachal Pradesh and at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Andaman & Nicobar Islands.
- ❖ **The minimum temperatures** are in the range of 1-3°C over many parts of northwest Rajasthan and southeast Rajasthan; in the range of 3-5°C over remaining parts of Rajasthan, many parts of Punjab, Haryana, Chandigarh & Delhi and southwest Uttar Pradesh; in range of 5-8°C over remaining parts of plains of northwest and central India.
- ❖ **Minimum Temperature** has fallen by 4-7°C over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, northwest Madhya Pradesh and West Uttar Pradesh **with no significant change in remaining parts of northwest India.**
- ❖ They are below normal by -3.0°C to -6.0°C over many parts of Rajasthan, south Haryana, Delhi and West Madhya Pradesh. **The Lowest Minimum Temperature of -2.5°C observed over Churu (West Rajasthan).**
- ❖ **Cold wave to Severe Cold wave conditions prevailed** at many places over Punjab and West Rajasthan; in some areas of Haryana and East Rajasthan; **Cold wave conditions** in some areas of Delhi and isolated pockets over West Madhya Pradesh.
- ❖ **Severe cold day conditions** prevailed in isolated pockets over Himachal Pradesh and **cold day conditions** in isolated pockets over Haryana and Rajasthan.
- ❖ **Very Dense fog** occurred in isolated pockets over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh; **Dense fog** in isolated pockets over Uttarakhand, Chhattisgarh, West Bengal & Sikkim.

Weather Forecast and Warnings (Annexure II):

Weather Systems and associated rainfall/snowfall

- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan Region from the night of 18th January, 2023. Under its influence, light/moderate isolated/scattered rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand likely during 18th-20th January, 2023.

Minimum Temperature Forecast, Cold Wave, Cold Day & Fog Warning:

- ❖ Further fall in minimum temperatures by about 2°C very likely over many parts of Northwest & central India till 17th January and gradual rise by 3-5°C during 18th-20th January. Fall in minimum temperatures by 2-3°C very likely over East India till 17th and gradual rise by 2-3°C during 18th-20th January. No significant change in minimum temperatures very likely over Gujarat state by 17th and rise by 2-3°C thereafter.
- ❖ **Cold Wave to severe cold wave conditions** very likely over many parts of Rajasthan, Punjab and Haryana, Chandigarh & Delhi till 17th and thereafter in isolated pockets on 18th; **Cold wave condition** in isolated pockets also very likely over Himachal Pradesh during 16th -18th; over West Madhya Pradesh on 16th & 17th; over East Madhya Pradesh on 17th and over Punjab, Haryana, Chandigarh & Delhi and Rajasthan on 19th January, 2023.
- ❖ **Ground Frost** conditions in isolated places over Punjab, Haryana and Rajasthan during 15th -18th January 2023.
- ❖ **Cold Day conditions** very likely in isolated pockets over Himachal Pradesh on 15th January 2023.
- ❖ Strong surface wind of 15-20 kmph likely to prevail over some parts of plains of northwest India during day period on 15th and 16th January 2023.
- ❖ **Dense fog** very likely in isolated pockets during night & morning hours over Punjab, Haryana, Chandigarh, north Rajasthan and north Uttar Pradesh during 15th -17th; over Bihar during next 5 days; over Sub-Himalayan West Bengal & Sikkim during 15th -17th; over Gangetic West Bengal & Odisha on 16th-17th and over Assam & Meghalaya and Tripura during next 5 days.

For more details kindly refer:

https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php



Dr. M. Mohapatra

Director General of Meteorology
India Meteorological Department

requests the pleasure of your company on the occasion of
148th Foundation Day Celebrations

of
India Meteorological Department
on 15 January, 2023 at 04:00 PM

in Vrishti Auditorium of Mausam Bhawan, Lodhi Road, New Delhi.

Dr. Jitendra Singh

Hon'ble Minister of State (IC) Ministry of Earth Sciences

has kindly consented to be the chief guest

Shri Pushkar Singh Dhama

Hon'ble Chief Minister of Uttarakhand

Shri Sukhvinder Singh

Hon'ble Chief Minister of Himachal Pradesh,
and

Shri Manoj Sinha

Hon'ble Lieutenant Governor
of the Union territory of Jammu and Kashmir
will join virtually as Guests of Honour

Shri Ajay Kumar Bhalla IAS

Home Secretary
will be the Guest of Honour and deliver the Keynote Address
&

Dr. M. Ravichandran

Secretary, MoES will preside over the Function

RSVP

S C Bhan, 7042529222

VK Soni, 9868120241



148th Foundation Day of IMD

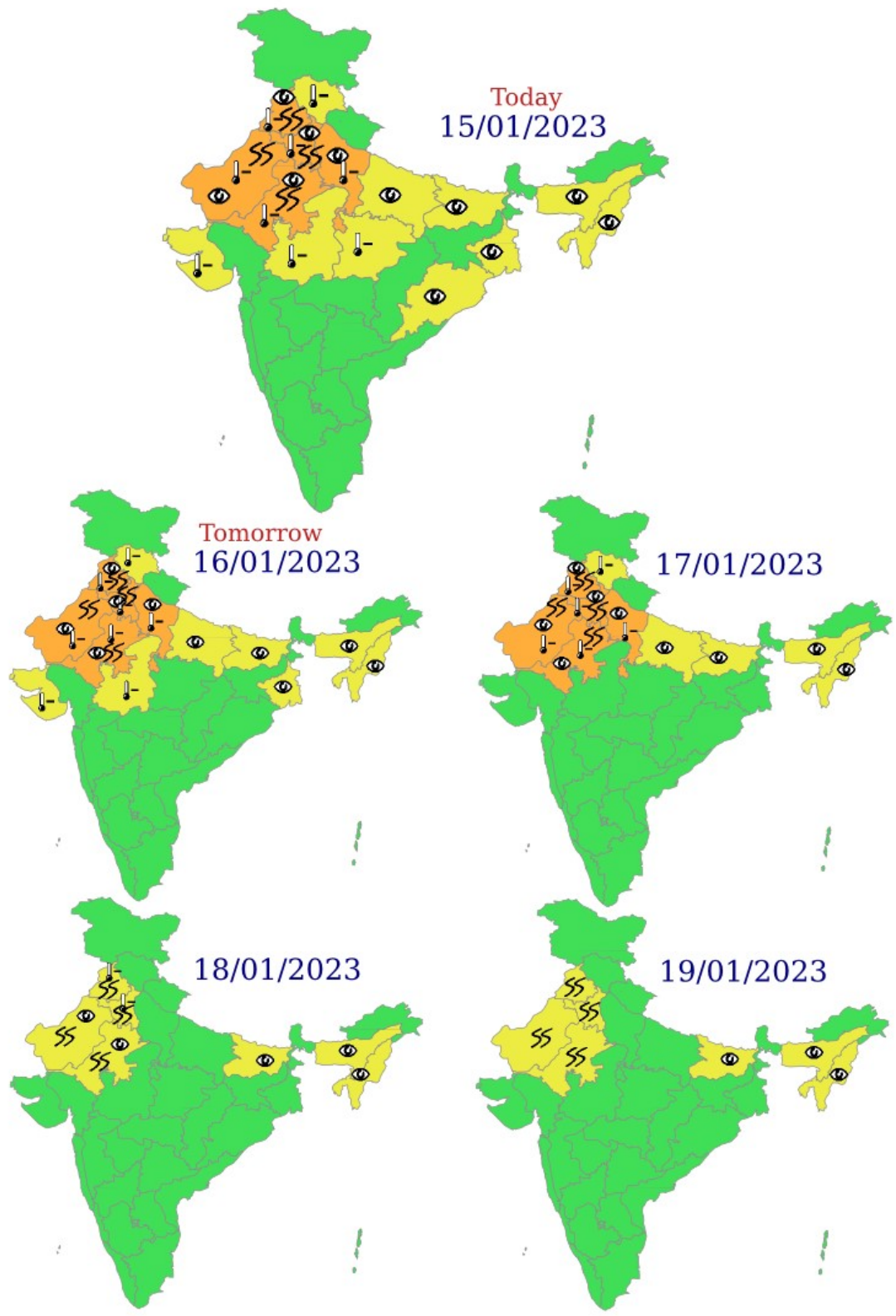
Programme schedule

(15th January, 2023, 04:00 PM onwards)

Venue: Vrishti Auditorium, Mausam Bhawan, New Delhi.

1.	Welcome to the Chief Guest & Guests of Honour	04:00-04:05 PM
2.	Lighting of Lamp & Saraswati Vandanam	04:05-04:10 PM
3.	Welcome Address by the DG, IMD	04:10-04:20 PM
4.	Address by the Secretary, MoES	04:20-04:25 PM
5.	Inauguration of Doppler Weather Radars' at Surkanda Ji, Murari Devi, Jot & Banihal Top	04:25-04:35 PM
6.	Release of Publications	04:35-04:40 PM
7.	Distribution of prizes	04:40-04:50 PM
8.	Keynote Address by the Home Secretary	04:50-05:00 PM
9.	Virtual Address by Hon'ble LG, Jammu & Kashmir	05:00-05:10 PM
10.	Virtual Address by Hon'ble Chief Minister Himachal Pradesh	05:10-05:20 PM
11.	Virtual Address by Hon'ble Chief Minister Uttarakhand	05:20-05:30 PM
12.	Address by Hon'ble Minister of Earth Sciences & Chief Guest	05:30-05:40 PM
13.	Felicitation of the Guests	05:40-05:50 PM
14.	Vote of thanks	05:50-05:55 PM
15.	National Anthem	05:55-06:00 PM
16.	High Tea	06:00 PM onwards

Annexure II



Annexure III

Impact expected and action suggested due to Severe Cold wave/Cold wave conditions in some/many parts of Rajasthan, Punjab and Haryana, Chandigarh & Delhi during 15th-18th January, 2023.

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, 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.

(For details kindly refer NDMA guidelines:

https://ndma.gov.in/Resources/awareness/Cold_Wave)

Legends:

Heavy Rain: 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

Region wise classification of meteorological Sub-Divisions:

- 1) **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.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and 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