



Government of India Ministry of  
Earth Sciences  
India Meteorological Department



Date: 27<sup>th</sup> February, 2025  
Time of Issue: 1630 hours IST

**Special Message (No.- 6)**

**FROM: INDIA METEOROLOGICAL DEPARTMENT**

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS  
CONTROL ROOM, NDMA  
SECRETARY, MOES  
DIRECTOR GENERAL, DOORDARSHAN  
DIRECTOR GENERAL, AIR PIB MOES  
CHIEF SECRETARY, GOVT. OF JAMMU & KASHMIR  
CHIEF SECRETARY, GOVT. OF LADAKH  
CHIEF SECRETARY, GOVT. OF HIMACHAL PRADESH  
CHIEF SECRETARY, GOVT. OF UTTARAKHAND  
CHIEF SECRETARY, GOVT. OF PUNJAB  
CHIEF SECRETARY, GOVT. OF HARYANA  
CHIEF SECRETARY, GOVT. OF CHANDIGARH  
CHIEF SECRETARY, GOVT. OF DELHI  
CHIEF SECRETARY, GOVT. OF UTTAR PRADESH  
CHIEF SECRETARY, GOVT. OF RAJASTHAN**

**Subject: Due to active Western Disturbance, heavy to very heavy rainfall/snowfall likely over Jammu & Kashmir, Himachal Pradesh and isolated heavy rainfall/snowfall over Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> February. It is also likely to cause scattered to fairly widespread light/moderate rainfall with isolated heavy falls over plains of northwest India on 27<sup>th</sup> & 28<sup>th</sup> February, 2025.**

**Weather Systems and Forecast & Warnings during next 5 days: (Annexure I)**

- ❖ The **Western Disturbance** as a trough in lower to upper tropospheric levels with its axis at 5.8 km above mean sea level runs roughly along Long. 56°E to the north of Lat. 28°N. There is a Divergence of the order of  $20-30 \times 10^{-6} \text{ s}^{-1}$  in the forward sector of the trough over Northwest India. High moisture feeding is also taking place over northwest India in lower tropospheric levels from Arabian Sea. As a result;
  - ✓ **Widespread** light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Western Himalayan region on 27<sup>th</sup> & 28<sup>th</sup> February with **gusty winds (speed 40-50 kmph)** very likely over Jammu-Kashmir-Ladakh on 27<sup>th</sup> February; with **gusty winds (speed 30-40 kmph)** over Himachal Pradesh on 27<sup>th</sup> February and decrease in intensity thereafter.
  - ✓ **Heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh & Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> February; with isolated **very heavy rainfall/snowfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 27<sup>th</sup> and Himachal Pradesh on 27<sup>th</sup> & 28<sup>th</sup> February.
  - ✓ **Fairly widespread to widespread** light to moderate rainfall accompanied with thunderstorm & lightning likely over Punjab, Haryana, Chandigarh on 27<sup>th</sup> & 28<sup>th</sup> February; **Isolated to Scattered** light to moderate rainfall accompanied with thunderstorm & lightning likely over West Uttar Pradesh & Rajasthan during 27<sup>th</sup> February- 01<sup>st</sup> March; East Uttar Pradesh in 28<sup>th</sup> February & 01<sup>st</sup> march with **gusty winds (speed 30-40 kmph)** very likely over Punjab & Haryana on 27<sup>th</sup> & 28<sup>th</sup> and Rajasthan on 28<sup>th</sup> February.
  - ✓ **Heavy rainfall** at isolated places likely over Punjab on 27<sup>th</sup> & 28<sup>th</sup> February.
  - ✓ **Isolated Hailstorm activity also likely over Jammu-Kashmir-Ladakh & Himachal Pradesh on 27<sup>th</sup>; Uttarakhand, Punjab & Haryana on 27<sup>th</sup> & 28<sup>th</sup>; West Uttar Pradesh on 28<sup>th</sup> February.**

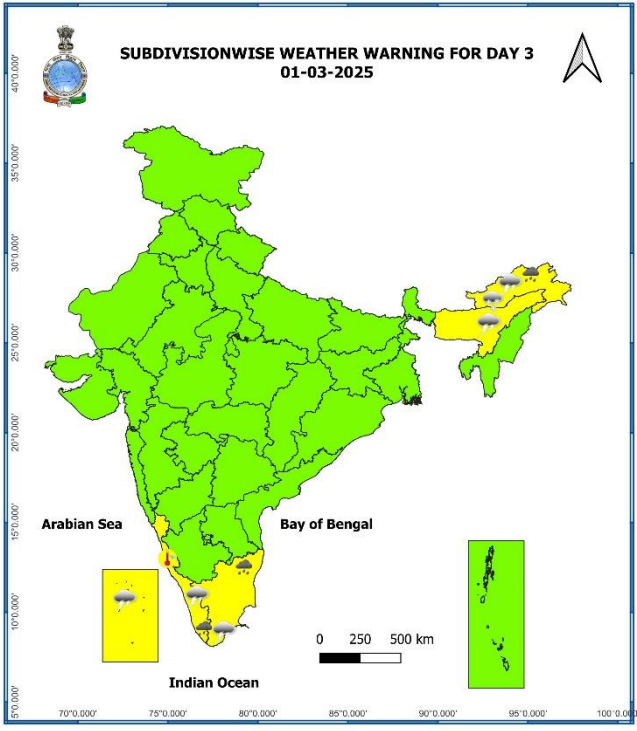
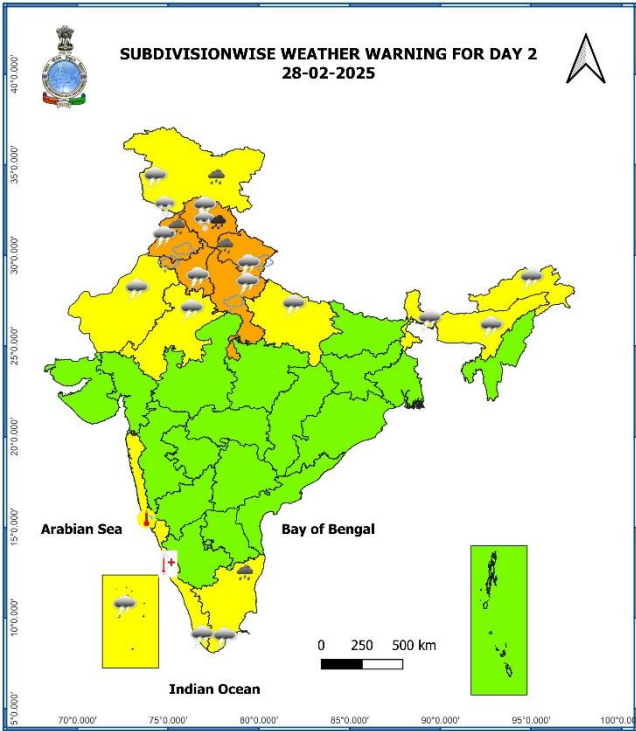
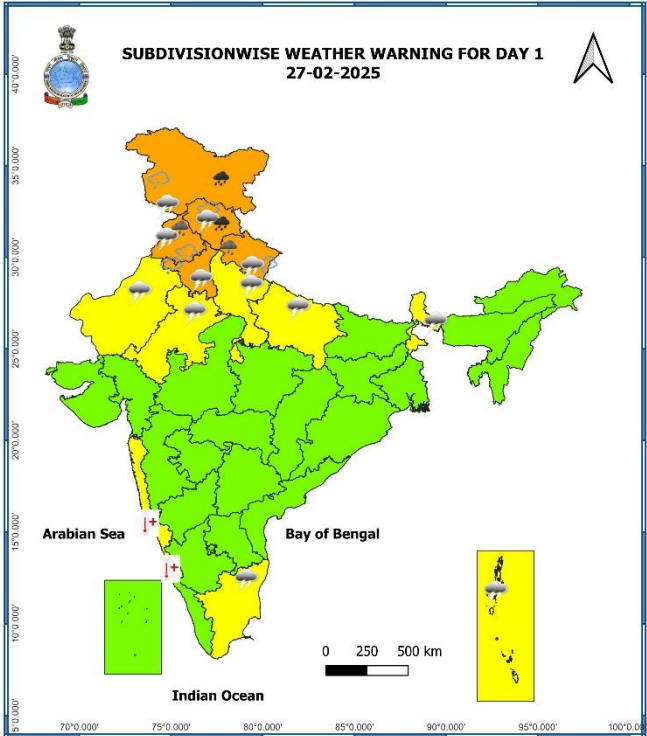
The state-wise forecast & warnings are given at ANNEXURE I

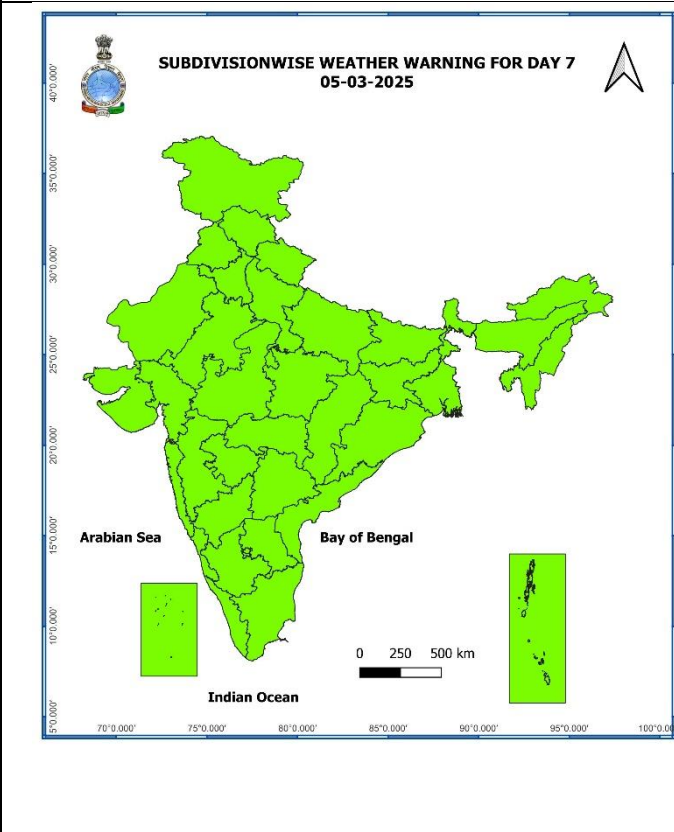
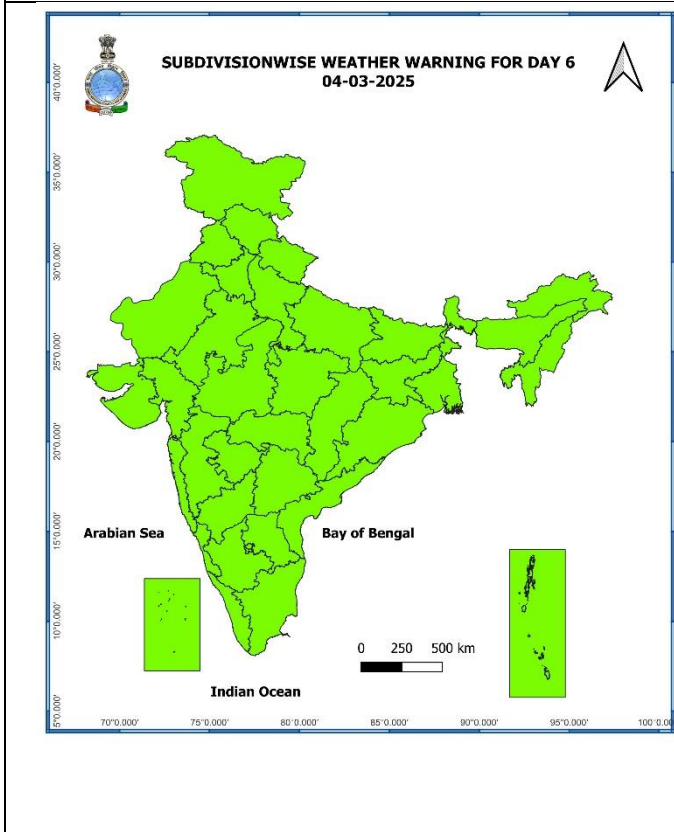
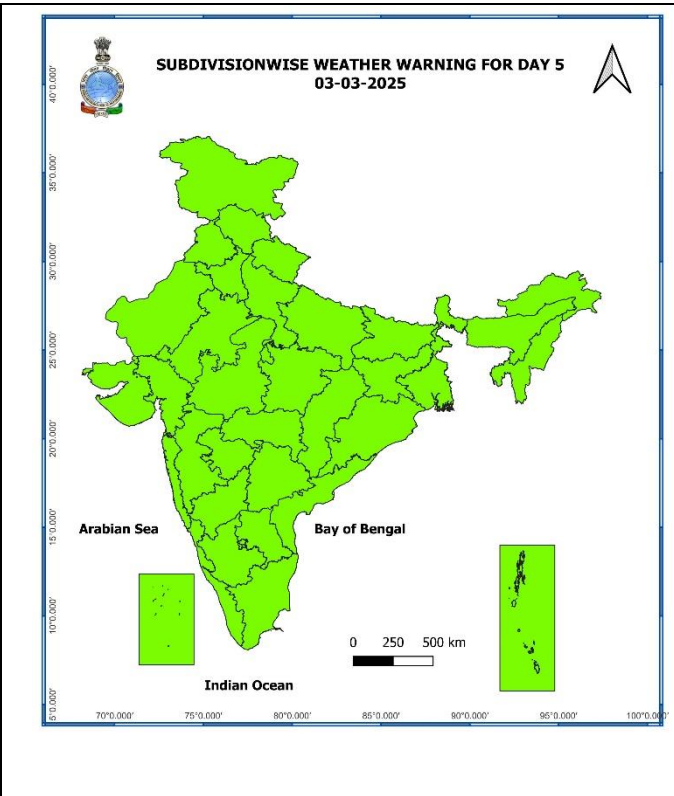
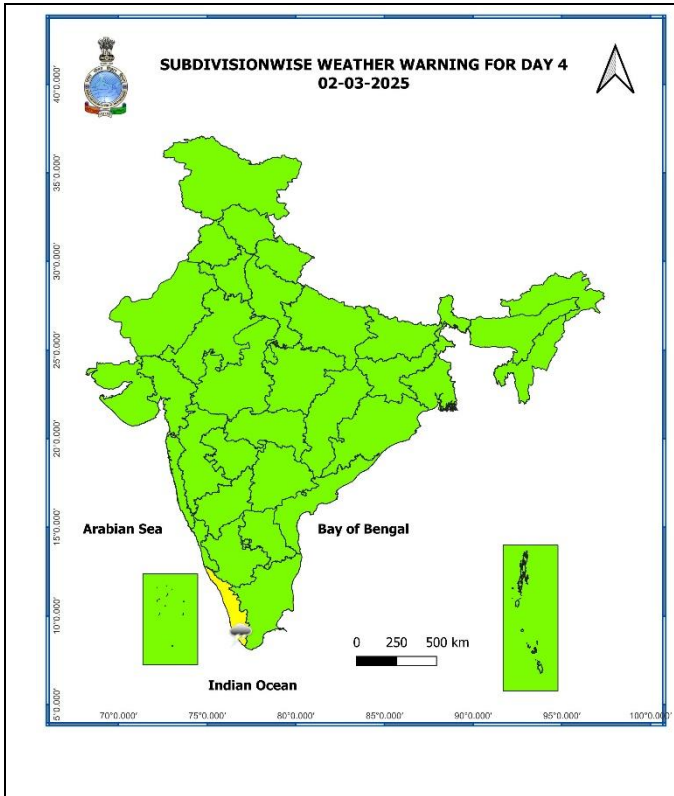
**For weather summary and forecast, kindly refer National Weather Bulletin:**

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

**For District wise warnings refer:** <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**Dr. Suprit Kumar  
Scientist 'E'  
NWFC, IMD, New Delhi**





**Impact & Action Suggested due to heavy rainfall/ snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh & Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> February; with isolated very heavy rainfall/snowfall at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 27<sup>th</sup> & Himachal Pradesh on 27<sup>th</sup> & 28<sup>th</sup> February.**

**A. Impact Expected**

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutcha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

**B. Action Suggested**

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

**Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Northwest India on 27<sup>th</sup> & 28<sup>th</sup> February.**

**Impact expected:**

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

**Action suggested:**

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

**Agromet advisories for likely impact of Heavy Rainfall / Snowfall / Hailstorm**

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana and West Uttar Pradesh.**  
Make provision for draining out excess water from the standing crop fields in **Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Punjab.** In the regions of heavy snowfall, shake the fruit bearing trees to remove snow immediately from the branches.
- Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

**Livestock**

- Keep the animals inside the shed during heavy rainfall/ hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.

**Legends & abbreviations:**

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office.
- ❖ **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 Marathwada.
  - **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)

Subdivision Warning	Dust Storm	Subdivision color
Heavy Rain	Strong Surface Winds	NO WARNING
Heavy Snow	Heat Wave	WATCH (BE UPDATED)
Thunderstorms & Lightning	Cold wave	ALERT (BE PREPARED)
Hailstorm	Fog	WARNING (TAKE ACTION)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)