



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Date: 22<sup>nd</sup> February, 2025  
Time of Issue: 1350 hours IST

**Special Message (No.- 1)**

FROM: INDIA METEOROLOGICAL DEPARTMENT  
TO: DIRECTOR GENERAL, DOORDARSHAN DIRECTOR GENERAL,  
AIR  
PIB MOES  
CHIEF SECRETARY, GOVT. OF WEST BENGAL  
CHIEF SECRETARY, GOVT. OF BIHAR  
CHIEF SECRETARY, GOVT. OF JHARKHAND  
CHIEF SECRETARY, GOVT. OF ODISHA  
CHIEF SECRETARY, GOVT. OF CHHATISGARH  
CHIEF SECRETARY, GOVT. OF SIKKIM  
CHIEF SECRETARY, GOVT. OF ARUNACHAL  
PRADESH  
CHIEF SECRETARY, GOVT. OF ASSAM

**Subject: Thunderstorms accompanied with lightning; gusty winds(speed 40-60 kmph) & hailstorm are likely over East India during 22<sup>nd</sup> & 23<sup>rd</sup> February, 2025.**

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

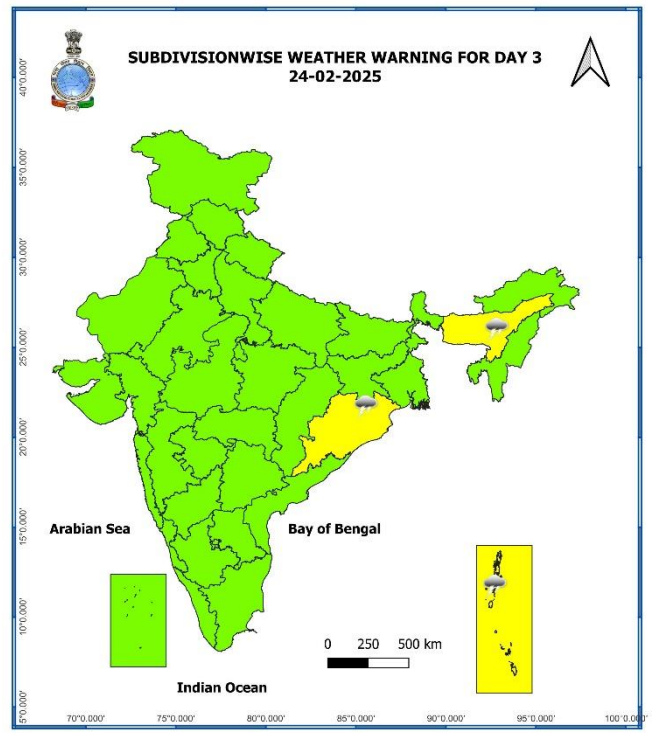
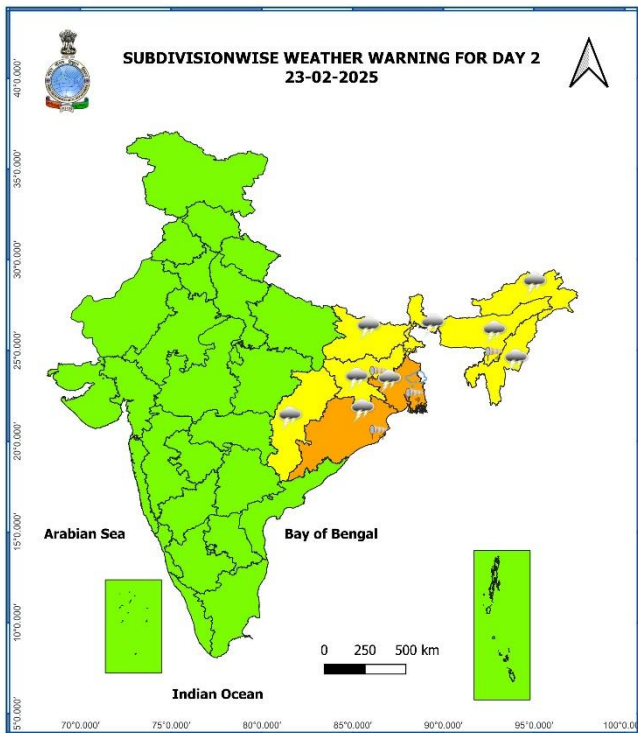
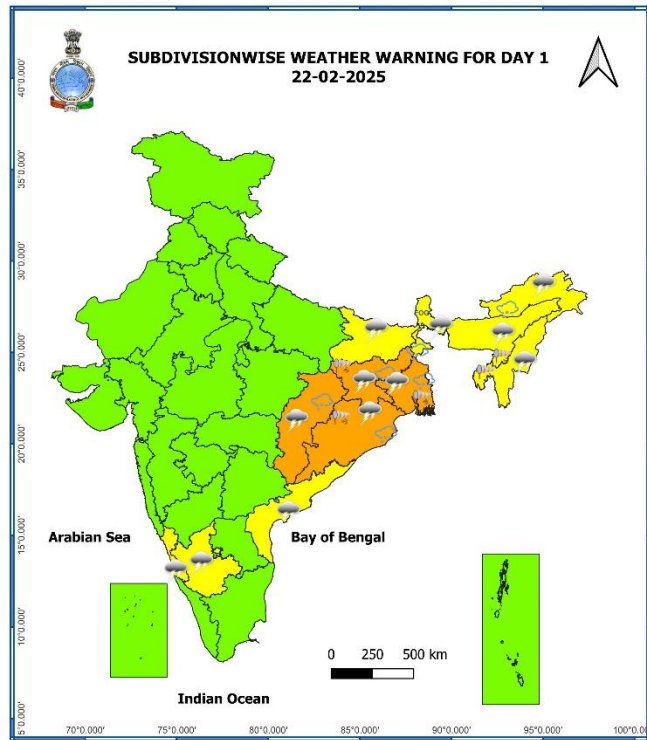
- ❖ A trough in westerlies runs from south Gangetic West Bengal to north Coastal Andhra Pradesh in the lower levels. An anti-cyclonic circulation lies over north Bay of Bengal in lower tropospheric levels, which is feeding moisture into east and east central India in the lower levels. Under the influence of these systems;
- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning with squall (speed 40-60 kmph)** very likely over Odisha, Gangetic West Bengal on 22<sup>nd</sup> & 23<sup>rd</sup>, Jharkhand on 22<sup>nd</sup>; **thunderstorm, lightning with gusty winds (speed 30-40 kmph)** very likely over Nagaland, Manipur, Mizoram & Tripura on 22<sup>nd</sup>; Assam & Meghalaya on 22<sup>nd</sup> & 23<sup>rd</sup> and Jharkhand on 23<sup>rd</sup> February. Isolated to scattered light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh & Nagaland, Manipur, Mizoram & Tripura on 22<sup>nd</sup> & 23<sup>rd</sup>; Assam & Meghalaya during 22<sup>nd</sup>-24<sup>th</sup>; Odisha on 24<sup>th</sup> February.
- ✓ **Hailstorm activity also likely** at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand & Odisha, Arunachal Pradesh on 22<sup>nd</sup>; Gangetic West Bengal on 22<sup>nd</sup> & 23<sup>rd</sup> February.

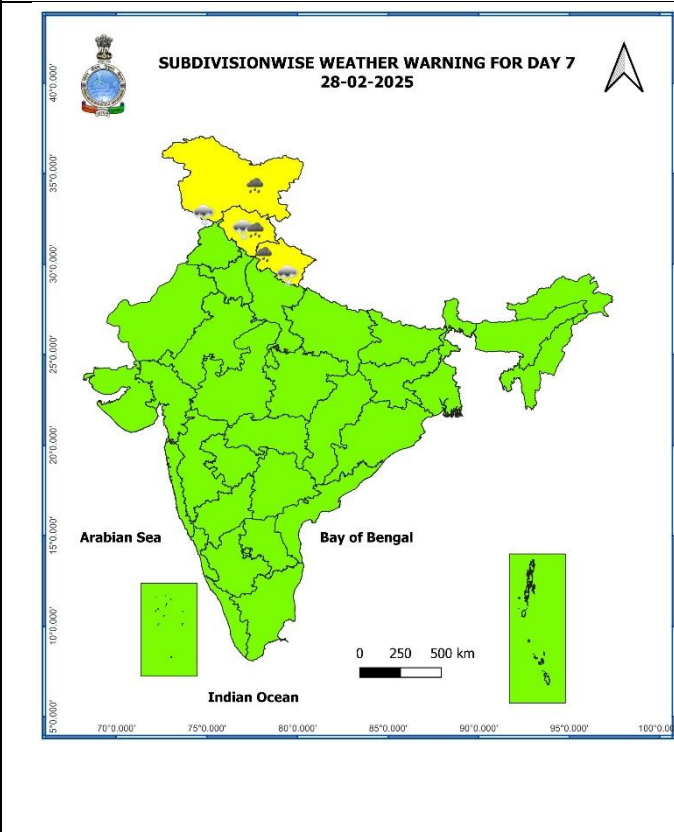
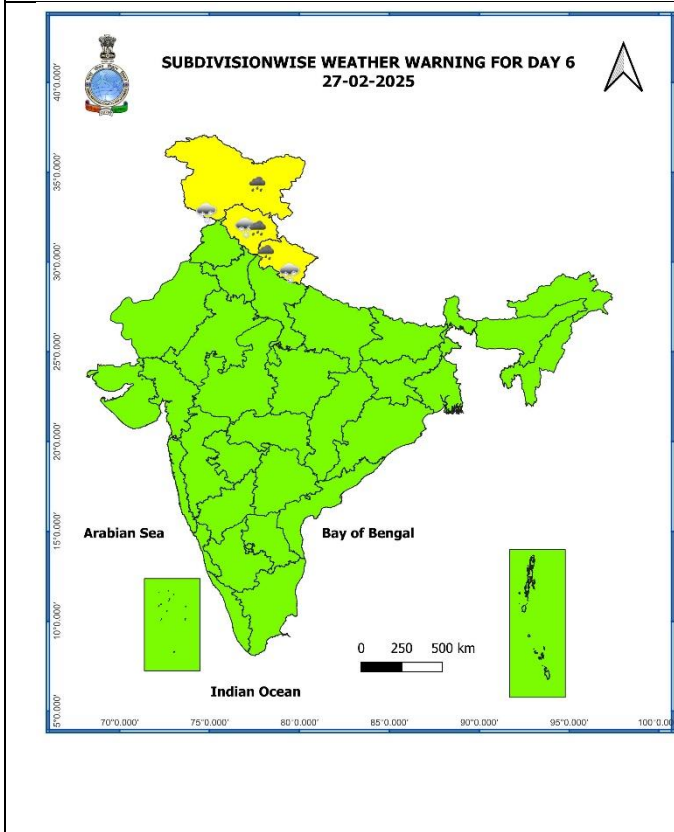
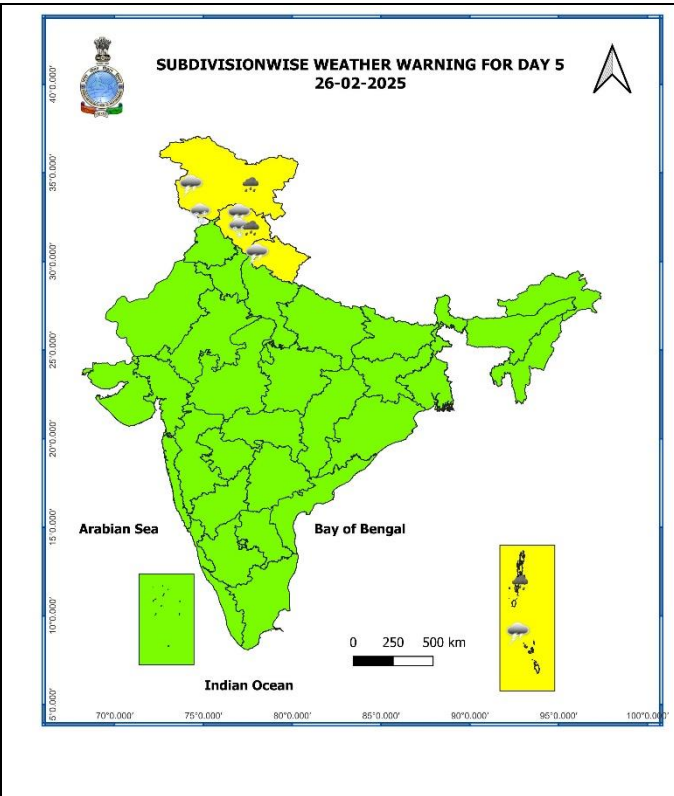
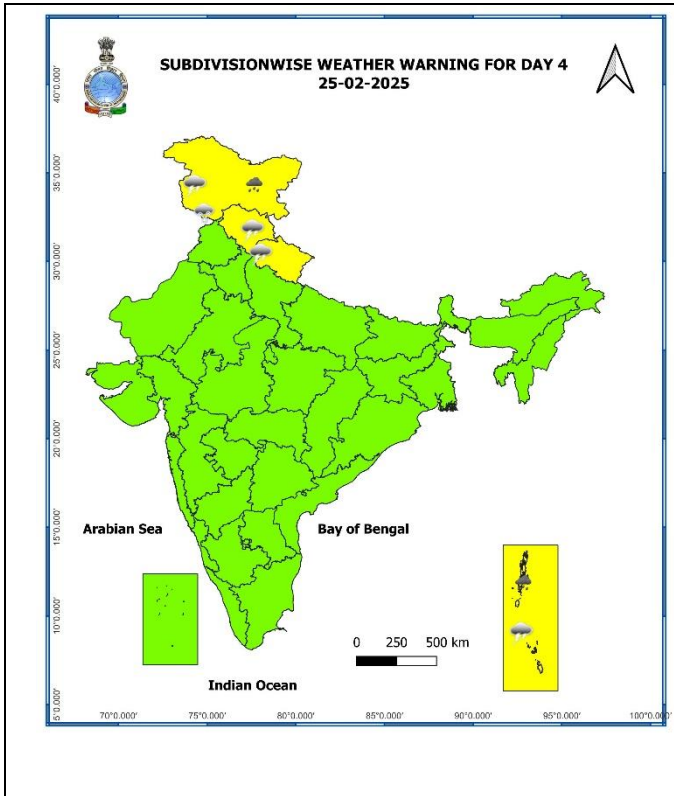
The state-wise forecast & warnings are given at ANNEXURE.

For more details, kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

Dr. Amit Bharadwaj  
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NWFC, IMD New Delhi

# ANNEXURE I





## Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm

### 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.

### 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.

<b>SPATIAL DISTRIBUTION</b> (% 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)