



Government of India
Ministry of Earth Sciences
India Meteorological Department



Date: 11th April, 2024
Time of Issue: 1400 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 MADHYA PRADESH
CHIEF SECRETARY, GOVT. OF CHHATTISGARH
CHIEF SECRETARY, GOVT. OF MAHARASHTRA

Subject: Light to moderate rainfall spell accompanied with thunderstorm, gusty winds & hail likely to continue over Central India during 11th-12th April, 2024

Realised weather during past 24 hours till 0830 hours IST of today:

- ❖ **Hailstorm** occurred at isolated places over Madhya Pradesh and Vidarbha.
- ❖ **Thundersquall/gusty winds** observed at isolated places over Madhya Pradesh and Chhattisgarh.
- ❖ **Light/Moderate rain** accompanied with **thunderstorm** observed over many parts of Vidarbha; over some parts of Madhya Pradesh, Chhattisgarh and at isolated places over Madhya Maharashtra, Marathwada.

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

- ❖ A cyclonic circulation lies over southwest Rajasthan and a trough/wind discontinuity runs from this cyclonic circulation to Coastal Karnataka and another cyclonic circulation lies over east Bihar in lower tropospheric levels. Under the influence of these systems:
 - ✓ Isolated to scattered light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Madhya Pradesh, Chhattisgarh, Vidarbha, Marathwada, Madhya Maharashtra during 11th-13th. **Squally wind speed reaching 50-60 gusting to 70 Km/h likely at isolated places over Madhya Pradesh on 11th & 12th April, 2024.**
 - ✓ **Hailstorm activity also very likely at isolated places over Madhya Pradesh, Vidarbha & Marathwada during 11th-12th April, 2024.**

The state-wise forecast is given below: (Warning graphics are given at ANNEXURE-I)

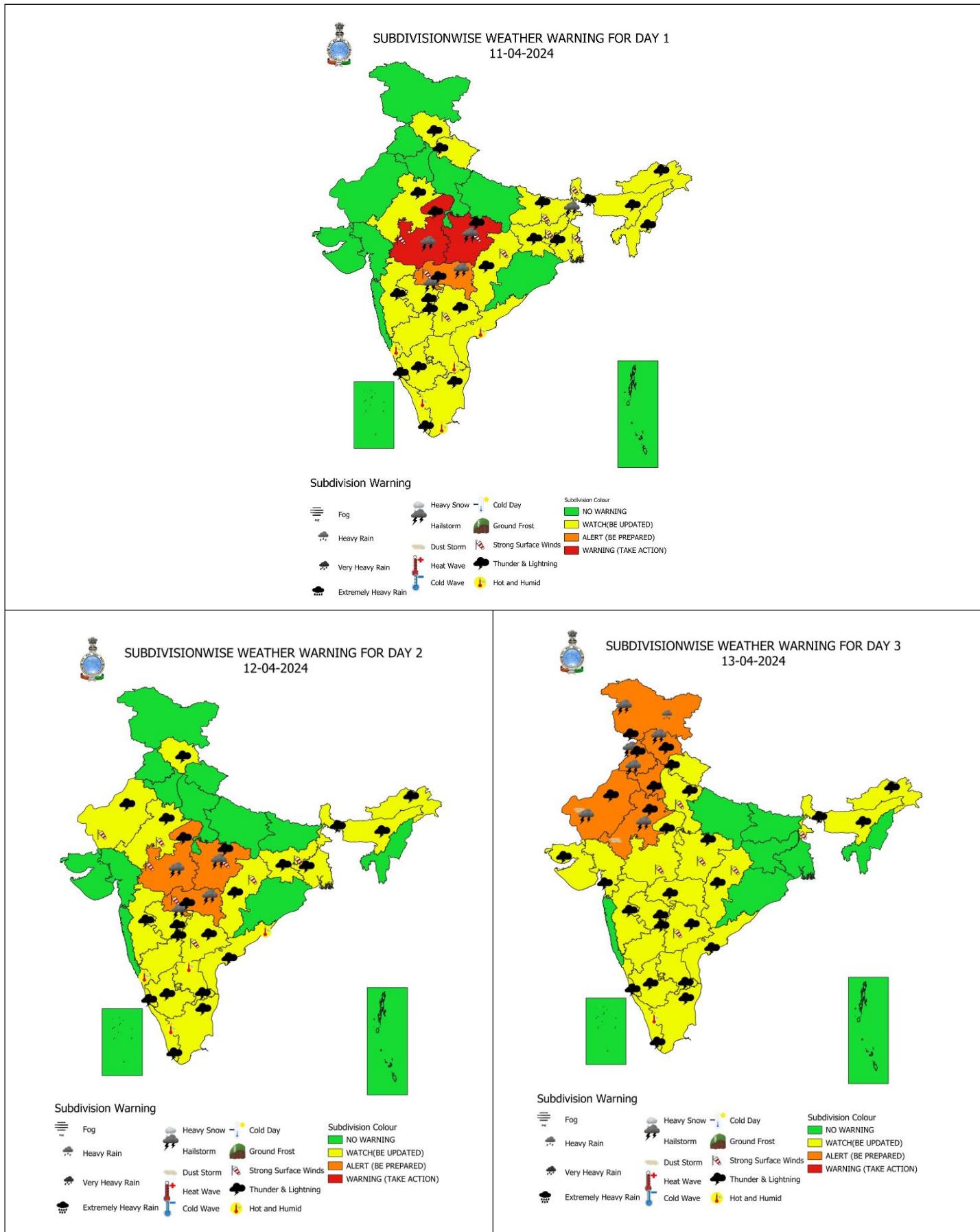
S. No.	State/sub-division	Forecast
1.	East Madhya Pradesh	<ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & squally winds (speed occasionally reaching 50-60 kmph) at isolated places on 11th & 12th April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 13th & 14th April; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 15th April. Light to moderate rain at isolated places on 16th & 17th April. Hailstorm also likely at isolated places on 11th & 12th April.
2.	West Madhya Pradesh	<ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 11th April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places during 12th – 14th April. Light to moderate rain at isolated places during 15th -17th April. Hailstorm also likely at isolated places on 11th & 12th April.
3.	Vidarbha	<ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 11th & 12th April; with lightning at isolated places during 13th – 15th April. Light to moderate rain at isolated places on 16th & 17th April. Hailstorm also likely at isolated places on 11th & 12th April.
4.	Chhattisgarh	<ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm, lightning & squally winds (speed occasionally reaching 50-60 kmph) at isolated places on 11th; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 12th; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 13th & 14th April.
5.	Marathwada	<ul style="list-style-type: none"> Light to moderate rain accompanied with thunderstorm & lightning at isolated places during 11th – 13th April. Light to moderate rain at isolated places during 14th- 17th April. Hailstorm also likely at isolated places on 11th & 12th April.

6.	Madhya Maharashtra	<ul style="list-style-type: none"> • Light to moderate rain accompanied with thunderstorm & lightning during 11th – 13th April. • Light to moderate rain at isolated places during 15th- 17th April.
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For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

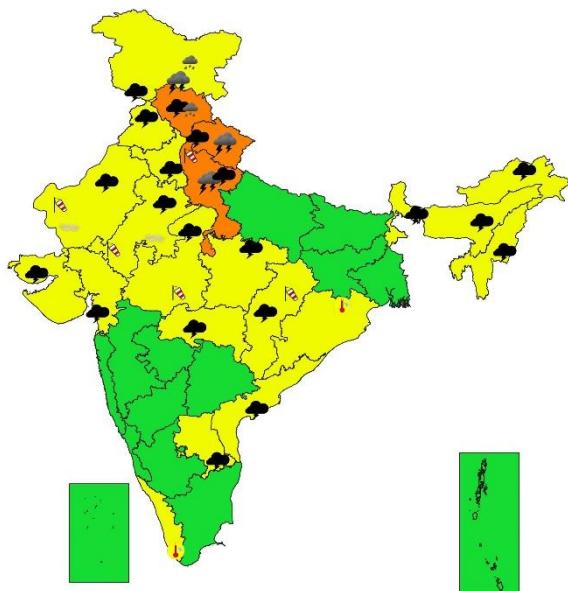
Krishna Mishra
 Scientist- 'C'
 NWFC, IMD New Delhi

ANNEXURE I





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
14-04-2024

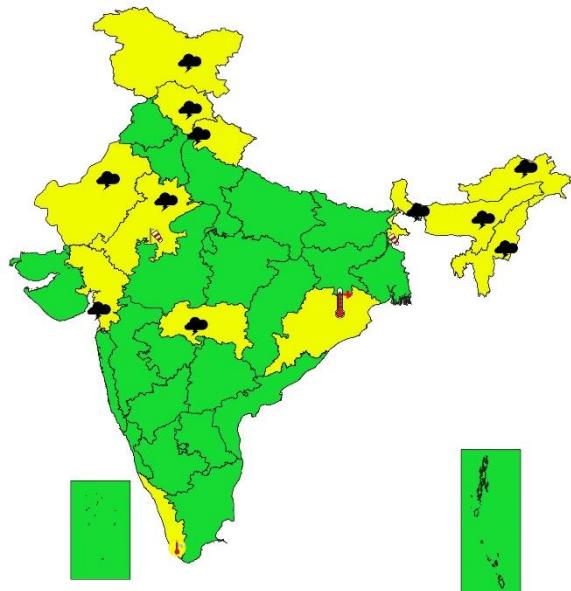


Subdivision Warning

Fog	Heavy Snow	Cold Day
Heavy Rain	Hailstorm	Ground Frost
Very Heavy Rain	Dust Storm	Strong Surface Winds
Extremely Heavy Rain	Heat Wave	Thunder & Lightning
	Cold Wave	Hot and Humid



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
15-04-2024



Subdivision Warning

Fog	Heavy Snow	Cold Day
Heavy Rain	Hailstorm	Ground Frost
Very Heavy Rain	Dust Storm	Strong Surface Winds
Extremely Heavy Rain	Heat Wave	Thunder & Lightning
	Cold Wave	Hot and Humid

Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Madhya Pradesh, Vidarbha & Marathwada on 11th & 12th April, 2024.

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 Heavy Rainfall, Gusty Winds, Hailstorm and Heat Wave likely over various parts of the country

- Harvest the matured crops, fruits and vegetables at the earliest and keep the harvested produce at safer places or cover the heaps of harvested produce in the fields with tarpaulin sheets in Central India.
- Use hail nets or hail caps in fruit orchards to protect them from mechanical damage in Madhya Pradesh, Vidarbha, Marathwada.
- Provide mechanical support to horticultural crops & staking to vegetables in Madhya Pradesh, Vidarbha, Chattisgarh, Marathwada.

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		Flash Flood Risk	
Terms	Probability of Occurrence (%)		
Unlikely	< 25		High Risk (Take Action)
Likely	25 - 50		Moderate Risk (Be Prepared)
Very Likely	50 - 75		Low Risk (Be Updated)
Most Likely	> 75		