



Government of India
Ministry of Earth Sciences
India Meteorological Department



Date: 10th April, 2024
Time of Issue: 1315 hours IST

Special Message (No.- 5)

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 10th-12th April, 2024.

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

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

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

- ❖ A cyclonic circulation lies over southeast Rajasthan and a trough/wind discontinuity runs from southeast Rajasthan to northern parts of Coastal Karnataka and another trough runs from southeast Rajasthan to northeast Bangladesh in lower tropospheric levels. Under its influence;
 - ✓ Isolated to scattered light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (occasionally reaching 30-50 kmph)** very likely over Madhya Pradesh, Chhattisgarh, Vidarbha, over Marathwada, Madhya Maharashtra during 10th-13th April, 2024.
 - ✓ **Hailstorm activity also very likely at isolated places over Madhya Pradesh on 10th & 11th; Vidarbha during 10th -12th and over Marathwada on 10th, 12th & 13th April, 2024.**

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

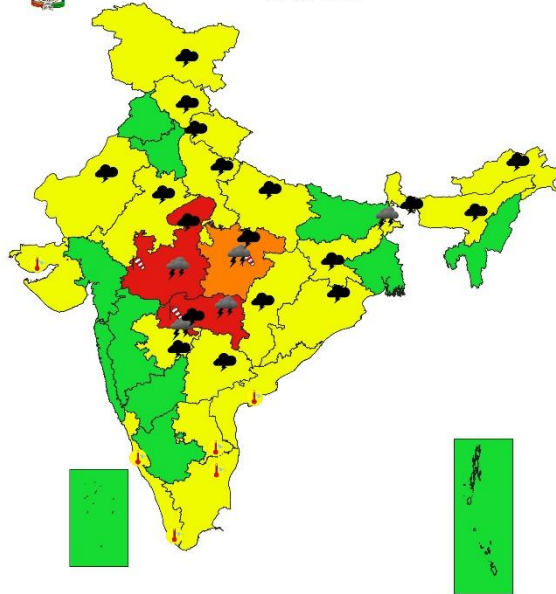
S. No.	State/sub-division	Forecast
1.	East Madhya Pradesh	<ul style="list-style-type: none"> • Light to moderate rain accompanied with thunderstorm, lightning & squally winds (speed occasionally reaching 50-60 kmph) at isolated places on 10th April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 11th & 12th April; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 13th and with lighting at isolated places on 14th April. • Light to moderate rain at isolated places on 15th & 16th April. • Hailstorm also likely at isolated places on 10th & 11th April.
2.	West Madhya Pradesh	<ul style="list-style-type: none"> • Light to moderate rain accompanied with thunderstorm, lightning & squally winds (speed occasionally reaching 50-60) at isolated places on 10th April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 11th April; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 12th and with lighting at isolated places on 13th & 14th April. • Light to moderate rain at isolated places on 15th & 16th April. • Hailstorm also likely at isolated places on 10th April.
3.	Vidarbha	<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 10th April; with gusty winds (speed occasionally reaching 40-50 kmph) at isolated places on 11th & 12th April; with gusty winds (speed occasionally reaching 30-40 kmph) at isolated places on 13th & 14th April. • Light to moderate rain at isolated places on 15th & 16th April. • Hailstorm also likely at isolated places during 10th -12th April.
4.	Chhattisgarh	<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 during 10th -14th April. • Light to moderate rain at isolated places on 15th April.
5.	Marathwada	<ul style="list-style-type: none"> • Light to moderate rain accompanied with thunderstorm & lightning at isolated places during 10th – 14th April. • Light to moderate rain at isolated places on 15th & 16th April. • Hailstorm also likely at isolated places on 10th, 12th & 13th April.

6.	Madhya Maharashtra	<ul style="list-style-type: none">• Light to moderate rain accompanied with thunderstorm & lightning on 10th and with gusty winds (speed occasionally reaching 30-40 kmph) on 11th & 12th April.• Light to moderate rain at isolated places on 15th & 16th April.
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For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

Dr. Shashi Kant
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NWFC, IMD New Delhi

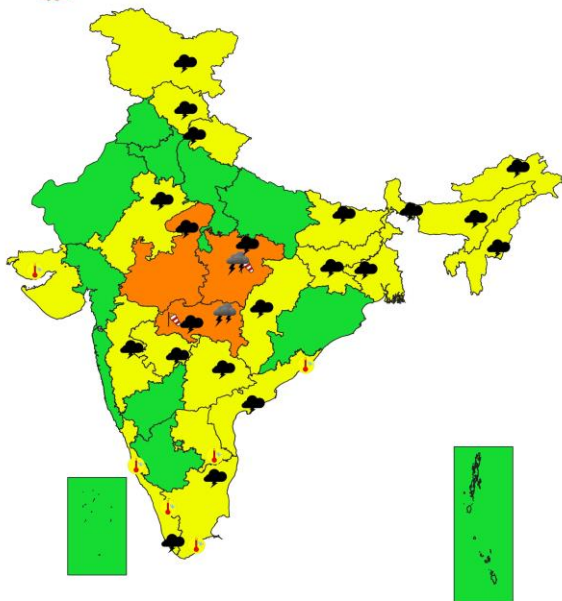
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
10-04-2024



Subdivision Warning

- | | | | |
|----------------------|------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Heavy Rain | Hailstorm | Ground Frost | NO WARNING |
| Very Heavy Rain | Dust Storm | Strong Surface Winds | WATCH(BE UPDATED) |
| Extremely Heavy Rain | Heat Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| | Cold Wave | Hot and Humid | WARNING (TAKE ACTION) |

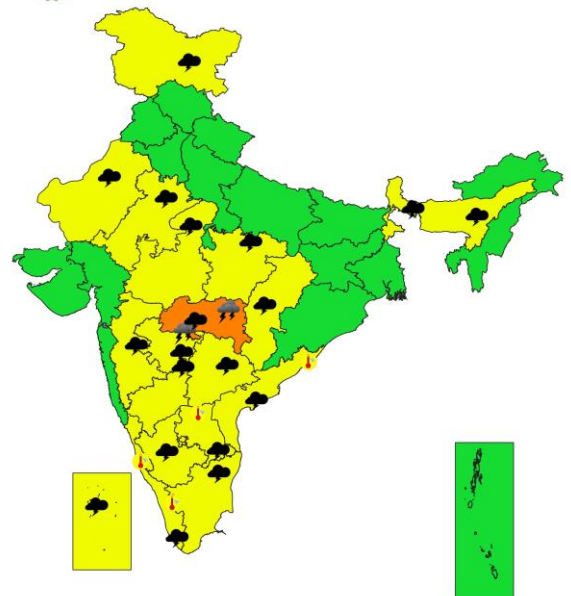
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
11-04-2024



Subdivision Warning

- | | | | |
|----------------------|------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Heavy Rain | Hailstorm | Ground Frost | NO WARNING |
| Very Heavy Rain | Dust Storm | Strong Surface Winds | WATCH(BE UPDATED) |
| Extremely Heavy Rain | Heat Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| | Cold Wave | Hot and Humid | WARNING (TAKE ACTION) |

SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
12-04-2024

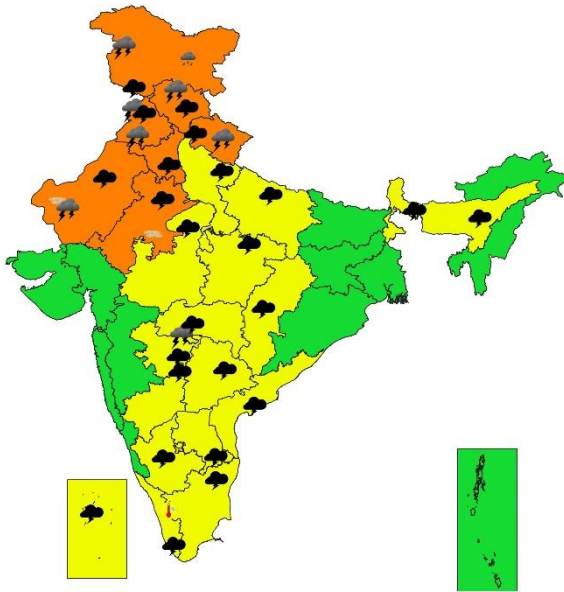


Subdivision Warning

- | | | | |
|----------------------|------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Heavy Rain | Hailstorm | Ground Frost | NO WARNING |
| Very Heavy Rain | Dust Storm | Strong Surface Winds | WATCH(BE UPDATED) |
| Extremely Heavy Rain | Heat Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| | Cold Wave | Hot and Humid | WARNING (TAKE ACTION) |



SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
13-04-2024

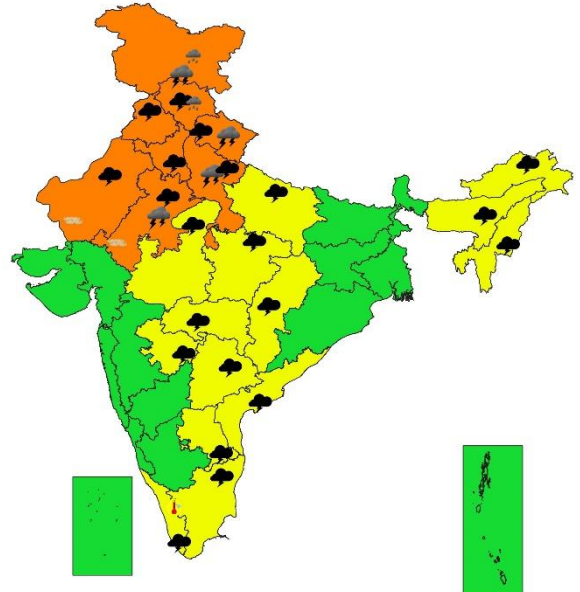


Subdivision Warning

- | | | | |
|----------------------|------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Heavy Rain | Hailstorm | Ground Frost | NO WARNING |
| Very Heavy Rain | Dust Storm | Strong Surface Winds | WATCH (BE UPDATED) |
| Extremely Heavy Rain | Heat Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| | Cold Wave | Hot and Humid | WARNING (TAKE ACTION) |



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
14-04-2024



Subdivision Warning

- | | | | |
|----------------------|------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Heavy Rain | Hailstorm | Ground Frost | NO WARNING |
| Very Heavy Rain | Dust Storm | Strong Surface Winds | WATCH (BE UPDATED) |
| Extremely Heavy Rain | Heat Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| | Cold Wave | Hot and Humid | WARNING (TAKE ACTION) |

Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Madhya Pradesh, Vidarbha, Marathwada and Chhattisgarh on 10th & 11th April.

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 and provide mechanical support to horticultural crops & staking to vegetables in Madhya Pradesh, Vidarbha.

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)