



Government of India
Ministry of Earth Sciences
India Meteorological Department



Date: 09th April, 2024

Time of Issue: 1315 hours IST

Special Message (No.- 1)

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: Light to moderate rainfall accompanied with thunderstorm over Northwest India during 13th-16th April, 2024.

Weather Systems and Forecast & Warnings: (Annexure I)

- ❖ A **Western Disturbance** as a trough in middle tropospheric westerlies runs along Long. 60°E to the north of Lat. 30°N. **An Active Western Disturbance is likely to affect Northwest India from 12th April, 2024.** Under the influence of these systems:
 - ✓ Isolated light rainfall/snowfall very likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand during 10th-12th and fairly widespread to widespread light to moderate rainfall/snowfall with **thunderstorm, lightning** over the region during 13th-16th April, 2024.
 - ✓ Scattered to fairly widespread rainfall with **thunderstorm, lightning** over Uttar Pradesh, Punjab and Haryana during 13th-15th April and isolated to scattered light to moderate rainfall with **thunderstorm, lightning** very likely over Rajasthan during 10th-15th April, 2024.
 - ✓ **Isolated heavy rainfall/snowfall very likely over Jammu & Kashmir on 13th & 14th April, 2024.**
 - ✓ **Isolated hailstorm very likely over Himachal Pradesh and Uttarakhand on 13th April, 2024.**
 - ✓ **Dust storm/thundersquall (50-60 kmph gusting to 70kmph) very likely over Rajasthan on 13th April, 2024.**

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

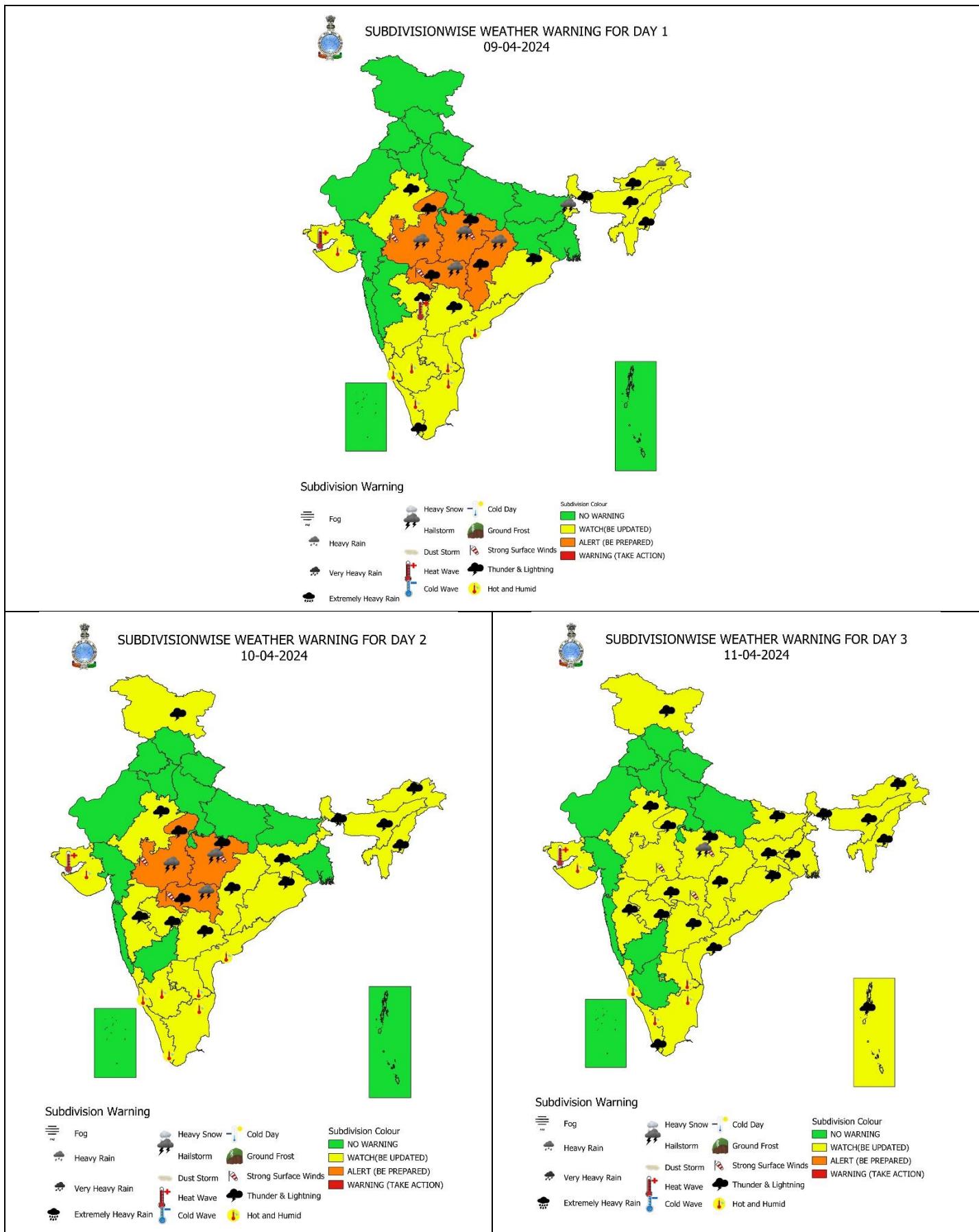
S. No.	State/sub-division	Forecast
1.	Jammu, Kashmir and Ladakh	<ul style="list-style-type: none">• Light to moderate rain/snowfall accompanied with thunderstorm & lightning at many places on 13th April.• Light to moderate rain at most places on 14th; at many places on 15th April.• Heavy rainfall/snowfall at isolated places also likely on 13th & 14th April.

2.	Himachal Pradesh	<ul style="list-style-type: none"> Light to moderate rain/snowfall accompanied with thunderstorm & lightning at many places on 13th April. Light to moderate rain at most places on 14th & 15th April. Hailstorm also likely at isolated places on 13th April.
3.	Uttarakhand	<ul style="list-style-type: none"> Light to moderate rain/snowfall accompanied with thunderstorm & lightning at many places on 13th April. Light to moderate rain at most places on 14th & 15th April. Hailstorm also likely at isolated places on 13th April.
4.	Punjab	<ul style="list-style-type: none"> Light rain accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) at many places on 13th April. Light to moderate rain at many places on 14th and at some places on 15th April.
5.	Haryana, Chandigarh & Delhi	<ul style="list-style-type: none"> Light rain accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) at many places on 13th April. Light to moderate rain at many places on 14th and at some places on 15th April.
6.	West Uttar Pradesh	<ul style="list-style-type: none"> Light rain accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) at some places on 13th April. Light to moderate rain at some places on 14th and at isolated places on 15th April.
7.	East Uttar Pradesh	<ul style="list-style-type: none"> Light rain accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) at isolated places on 13th April. Light to moderate rain at some places on 14th April.
8.	Rajasthan	<ul style="list-style-type: none"> Light rain accompanied with thunderstorm, lightning & squally winds (50-60 kmph) at some places on 13th April. Light to moderate rain at some places on 14th and at isolated places on 15th April.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

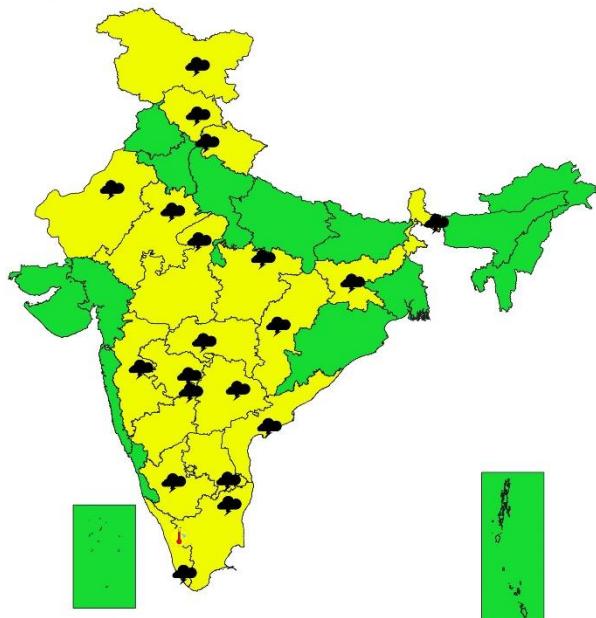
Krishna Mishra
Scientist 'C'
NWFC, IMD New Delhi

ANNEXURE I





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
12-04-2024

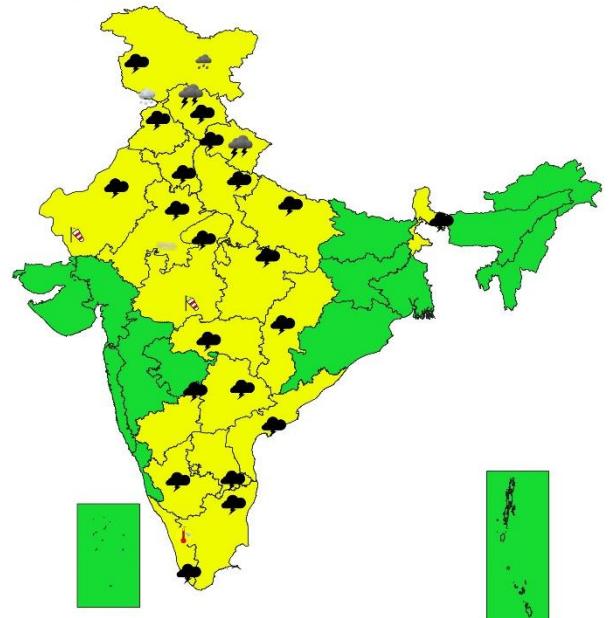


Subdivision Warning

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			WARNING (TAKE ACTION)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
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			WARNING (TAKE ACTION)

Impact & Action Suggested due to heavy rainfall/snowfall: Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 13th & 14th April, 2024.

Impacts Expected:

- Disruption of Electricity.
- Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
- Disruption of traffic flow.
- Damage to Kuchcha and unsecured structures.

Action Suggested:

- Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects – they can unexpectedly flood or overflow.
- Stay away from power lines or electrical wires.
- Don't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon
- Drive carefully.

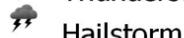
Legends & abbreviations:

- ❖ **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

Strong Surface Winds

Heat Wave

Cold wave

Fog

Subdivision color

NO WARNING

WATCH(BE UPDATED)

ALERT (BE PREPARED)

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)