



Special Press Release

Date: 11-09-2024

Sub: Enhanced rain/thundershower activity over Uttarakhand from 11th to 14th September 2024.

✚ Current Meteorological analysis :

The current meteorological analysis and Numerical Weather Prediction models indicate re-intensification of yesterday's well-marked low pressure area into a depression which lay centred over Northeast Madhya Pradesh near lat. 24°N and lon. 80°E. It is likely to move slowly north-northwestwards during next 24 hours. The Monsoon trough at mean sea level passes through Bikaner, Sikar, Shivpuri, the centre of depression over Northeast Madhya Pradesh and neighbourhood, Pendra Road, Rourkela, Digha and thence southeastwards to central Bay of Bengal and extends upto 1.5 km above mean sea level. Due to the above systems, strong south-easterly winds in lower & middle tropospheric levels are likely to prevail and bring moisture over Uttarakhand from 11th to 14th September 2024. **Under the influence of above systems, the peak activity of rainfall likely to occur from night of 11th to morning of 14th September 2024.**

✚ Rainfall forecast:

Light to moderate rain/ thundershowers very likely to occur at most places in Uttarakhand from 11th to 14th September 2024.

✚ Weather Warning for Uttarakhand:

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| 11 th September 2024 | <ul style="list-style-type: none">• <u>Alert:</u> Heavy to very heavy rainfall likely to occur at isolated places in Bageshwar district of Uttarakhand.• Thunderstorm accompanied with lightning and very intense to extremely intense spells likely to occur at isolated places in Bageshwar district of Uttarakhand.• <u>Watch:</u> Heavy rainfall very likely to occur at isolated places in Chamoli, Rudraprayag, Dehradun, Nainital, Champawat, Pithoragarh & Udham Singh Nagar districts of Uttarakhand.• Thunderstorm accompanied with lightning and intense to very intense spells very likely to occur at isolated places in districts of Uttarakhand. |
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| <p>12th September 2024</p> | <ul style="list-style-type: none"> • Warning: Heavy to very heavy rainfall very likely to occur at a few places with extremely heavy rainfall at isolated places in Nainital, Champawat, Udham Singh Nagar, Bageshwar, Pauri, Dehradun & Haridwar districts of Uttarakhand. • Thunderstorm accompanied with lightning and very intense to extremely intense spells very likely to occur at isolated places in Nainital, Champawat, Udham Singh Nagar, Bageshwar, Pauri, Dehradun & Haridwar districts of Uttarakhand. |
| <p>13th September 2024</p> | <ul style="list-style-type: none"> • Alert: Heavy to very heavy rainfall very likely to occur at isolated places in Pithoragarh, Rudraprayag, Uttarkashi, Chamoli, Almora and Tehri districts of Uttarakhand. • Thunderstorm accompanied with lightning and intense to very intense spells very likely to occur at isolated places in Pithoragarh, Rudraprayag, Uttarkashi, Chamoli, Almora and Tehri districts of Uttarakhand. |
| <p>14th September 2024</p> | <ul style="list-style-type: none"> • Watch: Heavy rainfall likely to occur at isolated places in Nainital, Champawat, Udham Singh Nagar, Bageshwar & Pauri districts of Uttarakhand. • Thunderstorm accompanied with lightning and intense to very intense spells likely to occur at isolated places in districts of Uttarakhand. |

✚ Impact/Advisory:

- Due to heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places, the minor to medium landslide, rock fall and mudslides very likely to occur at a few places in hills of Uttarakhand causing blocking/washout of roads/highways/bridges.
- Sudden increase in water flow in rivulets and rainwater streams may result in bank erosion/overflow/flash floods at a few places in these districts. Flooding & inundation also likely in low lying areas in these districts especially in Udham Singh Nagar district.
- Settlements/People residing in vulnerable areas prone to landslides are advised to remain vigilant during night time also. Pilgrims/tourists/commuters travelling in these districts to remain alert and are advised travel only if necessary. Settlements/People residing near major

rivers and their tributaries; rivulets/streams and low lying areas and flood plains are to remain alert & vigilant during night time also and ready to move to safer places (Higher places).

- State government authorities are advised to take all necessary precautionary measures and facilitate the safe movement of people.

Note: *Kindly login to Meteorological Centre, Dehradun's Website (<https://mausam.imd.gov.in/dehradun/>) for regular & detailed updates of forecasts, warnings and impacts.

LEGENDS:

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| WARNING (TAKE ACTION) | WATCH (BE UPDATED) |
| ALERT (BE PREPARED) | NO WARNING (NO ACTION) |

| INTENSITY (INSTY) | | DISTRIBUTION (DISTR) | | PROBABILITY OF OCCURRENCE | |
|------------------------------|-----------------|----------------------|--|---------------------------|-----------|
| VERY LIGHT/बहुत हल्की | TRACE - 2.4 mm | ISOLATED /कहीं-कहीं | ISOLATED (UPTO 25% AREA) | UNLIKELY | Up to 25% |
| LIGHT/हल्की | 2.5- 15.5 mm | FEW /कुछ स्थान | SCATTERED (BETWEEN 25-50% AREA) | LIKELY | 26 to 50% |
| MODERATE /मध्यम | 15.6 – 64.4 mm | MANY /अनेक स्थान | FAIRLY WIDE SPREAD (BETWEEN 50-75% AREA) | VERY LIKELY | 51 to 75% |
| HEAVY /भारी | 64.5- 115.5 mm | MOST /अधिकांश स्थान | WIDE SPREAD (MORE THAN 75% AREA) | MOST LIKELY | Above 75% |
| VERY HEAVY /बहुत भारी | 115.6- 204.4 mm | | | | |
| EXTREMELY HEAVY /अत्यंत भारी | > 204.4 mm | | | | |

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| Intense rainfall spell | 20-30 mm/hour |
| Very intense rainfall spell | 30-50 mm/hour |
| Extremely intense rainfall spell | 50-100 mm/hour |
| Cloud Burst | >100 mm/hour |