



#### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, August 01, 2024 Time of Issue: 2000 hours IST (NIGHT)

# All India Impact Based Weather Warning Bulletin

## **01 August (Day 1):**

- ❖ Heavy to very heavy rainfall with extremely heavy falls (> 20 cm ) very likely at isolated places over Madhya Maharashtra and Coastal Karnataka; Heavy to very heavy rainfall (≥ 12 cm) at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Assam & Meghalaya, Mizoram, Konkan & Goa, Kerala & Mahe and South Interior Karnataka; Heavy rainfall (≥ 7 cm) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Telangana and North Interior Karnataka.
- \* Thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar and Jharkhand.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over northeast Arabian sea, over most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, northern parts of southeast and adjoining southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep area, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and north bob. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over few parts over westcentral bob. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

# 02 August (Day 2):

- ❖ Heavy to very heavy rainfall with extremely heavy falls (> 20 cm ) at isolated places over East Madhya Pradesh and Madhya Maharashtra; Heavy to very heavy rainfall (≥ 12 cm) at isolated places over Uttarakhand, East Rajasthan, West Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Konkan & Goa, Gujarat Region, Coastal & South Interior Karnataka; Heavy rainfall (≥ 7 cm) at isolated places over Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana-Chandigarh, Uttar Pradesh, West Rajasthan, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and North Interior Karnataka.
- **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand and Bihar.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, Konkan, goa, Karnataka coasts, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Gujarat, north Maharashtra coasts, over few parts over westcentral bob. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.





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#### 03 August (Day 3):

- ❖ Heavy to very heavy rainfall with extremely heavy falls (> 20 cm) likely at isolated places over Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Gujarat Region; Heavy to very heavy rainfall (≥ 12 cm) at isolated places over Uttarakhand, East Rajasthan and Saurashtra & Kutch; Heavy rainfall (≥ 7 cm) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Kerala & Mahe and Coastal & South Interior Karnataka.
- \* Thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh, Bihar and Jharkhand.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Gujarat, north Maharashtra coasts, over few parts over westcentral bob. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

#### 04 August (Day 4):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) likely at isolated places over East Rajasthan, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gujarat Region; Heavy rainfall (≥ 7 cm) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Coastal & South Interior Karnataka.
- **Thunderstorm accompanied with lightning** very likely at isolated places over Bihar.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Gujarat, north Maharashtra coasts. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

#### 05 August (Day 5):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Madhya Maharashtra; Heavy rainfall (≥ 7 cm) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Rajasthan, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Gujarat Region.
- Thunderstorm accompanied with lightning very likely at isolated places over Rajasthan and Bihar.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Gujarat, north Maharashtra coasts, over few parts over westcentral bob. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.





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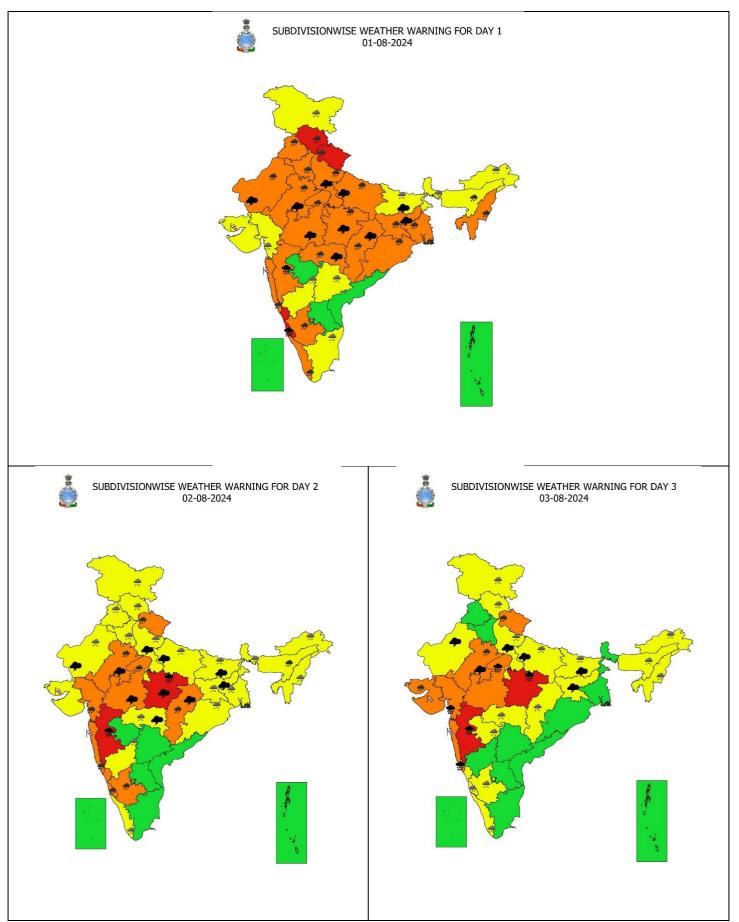
❖ Heavy to very heavy rainfall (≥ 12 cm) likely at isolated places over Uttarakhand; Heavy rainfall (≥ 7 cm) at isolated places over Himachal Pradesh, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region.

Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region.		
07 August (Day 7):		
❖ Heavy rainfall (≥ 7 cm) at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region.		





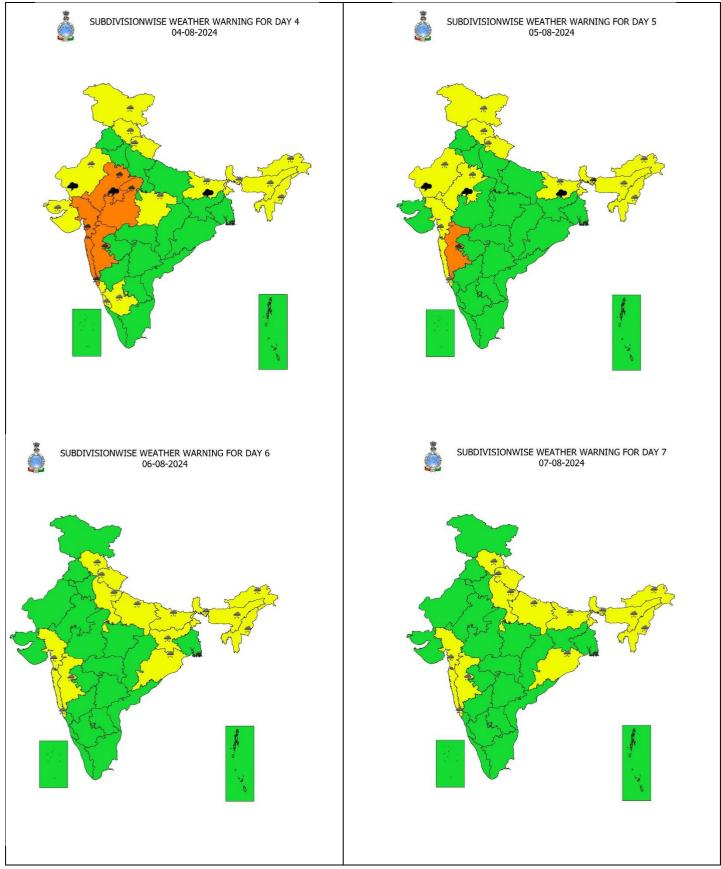
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- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





## **IMPACT & ACTION SUGGESTED due to**

- ✓ Isolated extremely heavy rainfall very likely over Coastal Karnataka on 01<sup>st</sup>; Madhya Maharashtra during 01<sup>st</sup>-03<sup>rd</sup> August; East Madhya Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup>; Konkan & Goa, West Madhya Pradesh and Gujarat Region on 03<sup>rd</sup> August.
- ✓ Heavy to very heavy rainfall very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Gujarat Region during 01<sup>st</sup>-05<sup>th</sup>; Madhya Pradesh during 01<sup>st</sup>-04<sup>th</sup>; Vidarbha, Chhattisgarh during 01<sup>st</sup>-03<sup>rd</sup> and Saurashtra & Kutch on 03<sup>rd</sup> August.
- ✓ Isolated very heavy rainfall also likely over Himachal Pradesh, Punjab, Haryana-Chandigarh, West Uttar Pradesh, West Rajasthan, Jharkhand, Odisha, Gangetic West Bengal, Kerala on 01<sup>st</sup>; Uttarakhand during 01<sup>st</sup>-03<sup>rd</sup>; East Rajasthan during 01<sup>st</sup>-04<sup>th</sup>; South Interior Karnataka 01<sup>st</sup> & 02<sup>nd</sup>; on 01<sup>st</sup> and Coastal Karnataka on 02<sup>nd</sup> August.
- ➤ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- ➤ Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ➤ Damage to horticulture and standing crops in some areas due to inundation.
- ➤ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

## **Action Suggested**

- ➤ Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- ➤ Avoid going to areas that face the water logging problems often.
- > Avoid staying in vulnerable structure.

# Agromet advisories for Heavy Rainfall likely over various parts of the country

- ➤ Make provision for draining out excess water from crop fields to avoid water stagnation in Assam & Meghalaya, NMMT, Gangetic West Bengal, Odisha, Jharkhand, Bihar, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Vidarbha, Konkan & Goa, *Ghat* areas of Madhya Maharashtra, Gujarat State, Tamilnadu, Kerala and Karnataka.
- ➤ Provide mechanical support to horticultural crops & staking to vegetables.

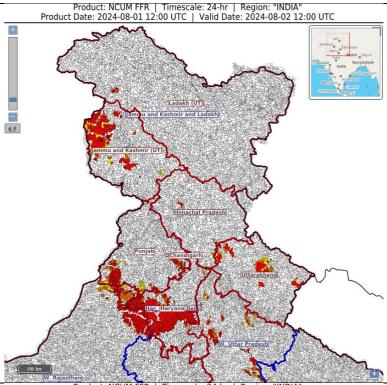


# **FLASH FLOOD GUIDANCE:**

# 24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 02-08-2024 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of Har - Chd & Delhi, Jammu & Kashmir & Ladakh and Punjab adjoining West Rajasthan Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.

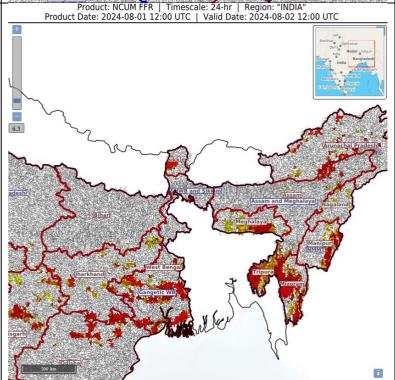


# 24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 02-08-2024 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of Tripura, Manipur & Mizoram states of NMMT Met Subdivisions during next 24 hours.

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Gangetic West Bengal adjoining Odisha Met Subdivisions during next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.





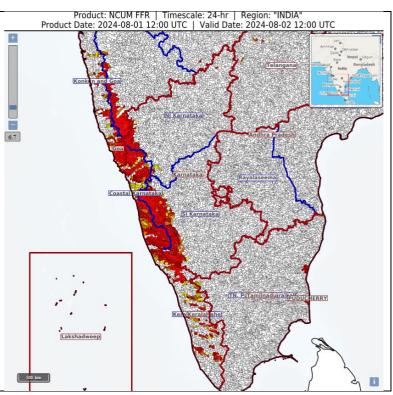


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# 24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 02-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Coastal Karnataka and adjoining South Konkan & Goa Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.

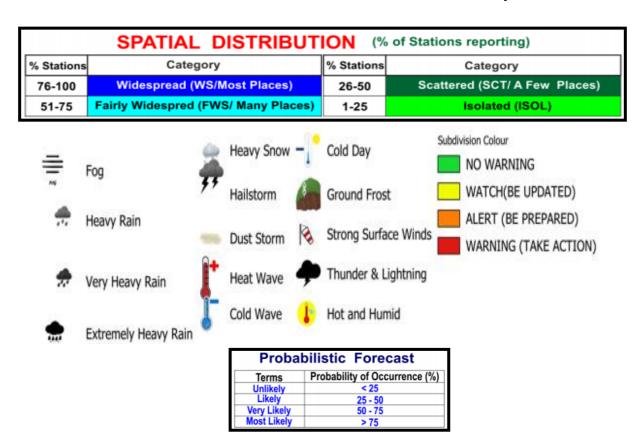




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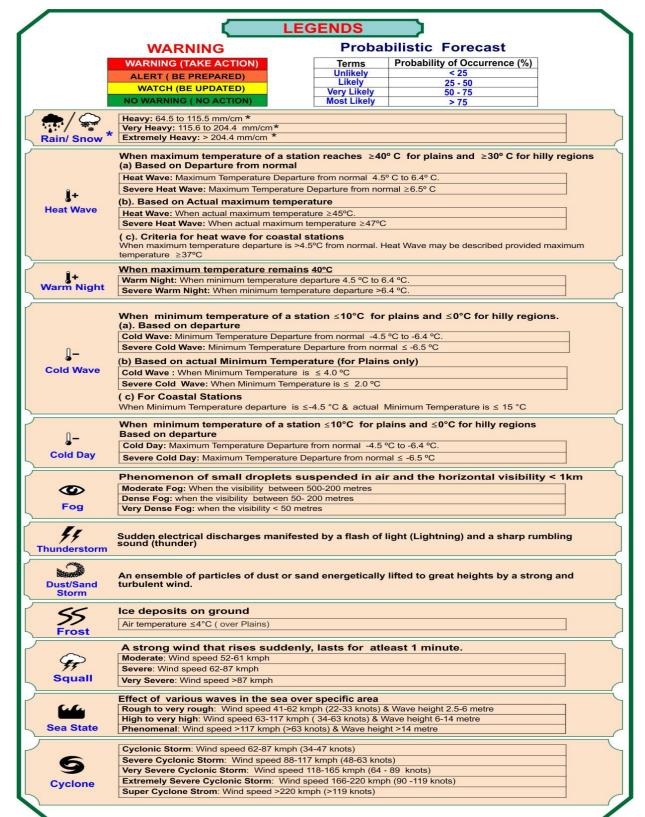
# **Legends & abbreviations:**

- **♦ Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ Obsy: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- **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 Marathawada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.





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Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.