



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

Monday, May 20, 2024 Time of Issue: 2000 hours IST (NIGHT)

# **All India Impact Based Weather Warning Bulletin**

### 20 May (Day 1):

- \* Heavy to very Heavy rainfall with extremely heavy falls very likely at isolated places over Kerala & Mahe; Heavy to very heavy rainfall at isolated places over Assam & Meghalaya, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal; Heavy rainfall at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Lakshadweep and North Interior Karnataka.
- Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Maharashtra, Konkan & Goa, Marathwada and South Interior Karnataka; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and North Interior Karnataka; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, East Rajasthan, Andaman & Nicobar Islands, Odisha, Arunachal Pradesh, Lakshadweep and Coastal Karnataka.
- \* Heat Wave to severe heat wave Conditions very likely to prevail in many parts over Punjab, Haryana-Chandigarh-Delhi and West Rajasthan; in some parts of Uttar Pradesh; in isolated pockets over northwest Madhya Pradesh; heat wave conditions in some parts of East Rajasthan; in isolated pockets over Himachal Pradesh, Uttarakhand, northeast Madhya Pradesh, Bihar and Gujarat state.
- \* Hot and humid weather very likely to prevail over Gangetic West Bengal, Jharkhand, Odisha, Konkan & Goa.
- \* Warm night conditions very likely to prevail in isolated pockets over West Uttar Pradesh, Rajasthan and Gujarat state.
- Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph very likely to prevail along and off Konkan, Goa, Karnataka, Kerala, Tamil Nadu & Sri Lanka coasts, Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, southwest and adjoining southeast Bay of Bengal, Andaman Sea; with wind speed 45 kmph to 55 kmph gusting to 65 kmph prevailing along and off south Sri Lanka coast and adjoining southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

#### 21 May (Day 2):

- \* Heavy to very Heavy rainfall with extremely heavy falls very likely at isolated places over Kerala & Mahe; Heavy to very heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal; Heavy rainfall at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh. Assam & Meghalaya, Lakshadweep and Coastal & South Interior Karnataka.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Madhya Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Madhya Maharashtra and Interior Karnataka; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana; with lightning at isolated places over Andaman & Nicobar Islands, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Coastal Karnataka.
- Heat Wave to severe heat wave Conditions very likely to prevail in most parts over West Rajasthan; in many parts over Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh; in isolated pockets over northwest Madhya Pradesh; heat wave conditions in some parts of East Rajasthan; in isolated pockets over Himachal Pradesh, northeast Madhya Pradesh, Odisha and Gujarat state.
- ❖ Hot and humid weather very likely to prevail over Bihar, Jharkhand and Konkan & Goa.
- Warm night conditions very likely to prevail in isolated pockets over West Uttar Pradesh, Rajasthan and Gujarat state.
- Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph very likely to prevail along and off Karnataka, Kerala, Tamil Nadu & Sri Lanka coasts, Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south and adjoining central Bay of Bengal, adjoining eastcentral Bay of Bengal, Andaman Sea; with wind speed 45 kmph to 55 kmph gusting to 65 kmph prevailing along and off Kerala, Sri Lanka coasts, Comorin area, Gulf of Mannar, Southwest and adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.





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#### 22 May (Day 3):

- Heavy to very Heavy rainfall with extremely heavy falls very likely at isolated places over Kerala & Mahe; Heavy rainfall at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal & South Interior Karnataka.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and Madhya Maharashtra; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Konkan & Goa, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; with lightning at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- \* Heat Wave to severe heat wave Conditions very likely to prevail in most parts of West Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh and East Rajasthan; in isolated pockets over northwest Madhya Pradesh; heat wave conditions in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Odisha and Gujarat state.
- \* Warm night conditions very likely to prevail in isolated pockets over West Uttar Pradesh and Rajasthan.
- Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph very likely to prevail along and off Karnataka, Kerala, & Sri Lanka coasts Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south and adjoining central Bay of Bengal, Andaman Sea; with wind speed 45 kmph to 55 kmph gusting to 65 kmph prevailing along and off south Kerala, Sri Lanka coasts, Comorin Area, Gulf of Mannar, southwest and adjoining southeast Bay of Bengal, Somalia coast. Fishermen are advised not to venture into these areas.

#### 23 May (Day 4):

- \* Heavy to very heavy rainfall likely at isolated places over Kerala & Mahe and Heavy rainfall at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Coastal & South Interior Karnataka.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Bihar; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; with lightning at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- Heat Wave to severe heat wave Conditions likely to prevail in most parts of West Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh and East Rajasthan; in isolated pockets over northwest Madhya Pradesh; heat wave conditions in isolated pockets over Jammu division, Himachal Pradesh, East Madhya Pradesh, Vidarbha, Odisha and Gujarat state.
- ❖ Warm night conditions likely to prevail in isolated pockets over West Uttar Pradesh and Rajasthan.
- Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph likely to prevail along and off south Karnataka, Kerala, Sri Lanka coasts, Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south and central Bay of Bengal, Andaman Sea; with wind speed 45 kmph to 55 kmph gusting to 65 kmph prevailing along and off south Kerala, Sri Lanka coasts, Comorin Area, Gulf of Mannar, south and adjoining central Bay of Bengal, Somalia coast. Fishermen are advised not to venture into these areas.

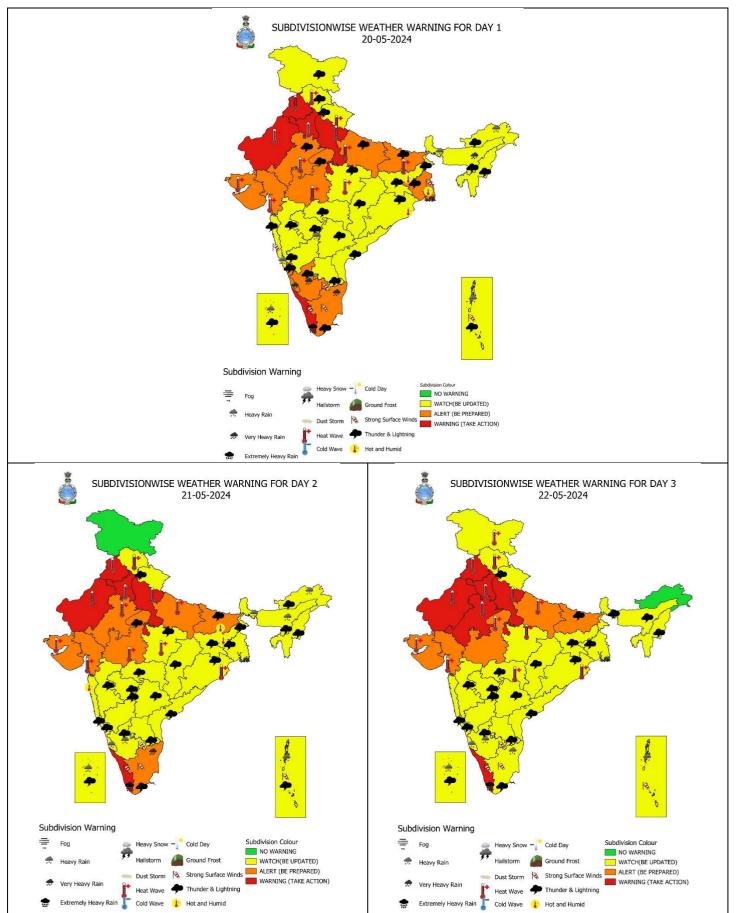
#### 24 May (Day 5):

- \* Heavy to very heavy rainfall likely at isolated places over Gangetic West Bengal and north Odisha; Heavy rainfall at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; with lightning at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- Heat Wave to severe heat wave Conditions likely to prevail in most parts of West Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh and East Rajasthan; in isolated pockets over northwest Madhya Pradesh; heat wave conditions in isolated pockets over Jammu division, Himachal Pradesh, East Madhya Pradesh, Vidarbha and Gujarat state
- **Warm night conditions** likely to prevail in isolated pockets over West Uttar Pradesh and Rajasthan.
- ❖ Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph likely to prevail along and off Kerala, & Sri Lanka coasts, Comorin area, Gulf of Mannar, South & Central Bay of Bengal and adjoining north Bay of Bengal, Andaman Sea with wind speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Sri Lanka coast, Comorin area, Gulf of Mannar, South and Central Bay of Bengal and along and off Somalia coast; with wind speed 50 kmph to 60 kmph gusting to 70 kmph likely to prevailing over westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.



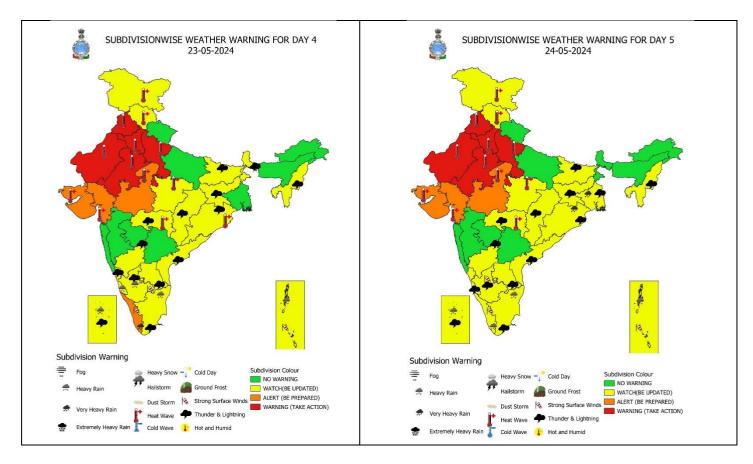


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IMPACT & ACTION SUGGESTED due to very heavy rainfall/extremely falls over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe during 20<sup>th</sup>-24<sup>th</sup>; Coastal & South Interior Karnataka on 20<sup>th</sup> May 2024.

# A. Impact Expected

- 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
- 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)

## **B.** 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.







- Very high likelihood of developing heat illness and heat stroke in all ages.
- ✓ Extreme care needed for vulnerable people.

# Orange alert Areas (East Uttar Pradesh, Gujarat State, West Madhya Pradesh)

✓ High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.

Red alert Areas: (Rajasthan, Punjab, Harvana, Chandigarh, Delhi, West Uttar Pradesh)

- ✓ High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ✓ Avoid heat exposure– keep cool. Avoid dehydration.
- ✓ Drink sufficient water- even if not thirsty.
- ✓ Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

# Yellow alert Areas (East Madhya Pradesh, Bihar, Vidarbha, Odisha, Uttarakhand, Himachal Pradesh, Jammu division)

- ✓ Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ✓ Avoid heat exposure.
- ✓ Wear lightweight, light colour, loose, cotton clothes.
- ✓ Cover your head, use a cloth, hat or umbrella.

# Agromet advisories for Heavy Rainfall, Gusty winds and Heat Wave likely over various parts of the country:

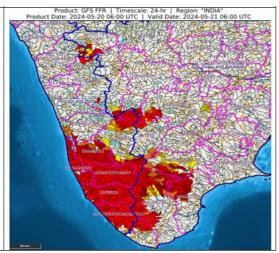
- Make provision for draining out excess water from crop fields to avoid water stagnation in Tamil Nadu, Kerala, Lakshadweep, Karnataka, Goa, Arunachal Pradesh, Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Rajasthan, Bihar, Gujarat and Madhya Pradesh.
- > Provide mechanical support to horticultural crops & staking to vegetables to prevent damage from gusty winds.

## Flash Flood Guidance:

# 24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 21-05-2024:

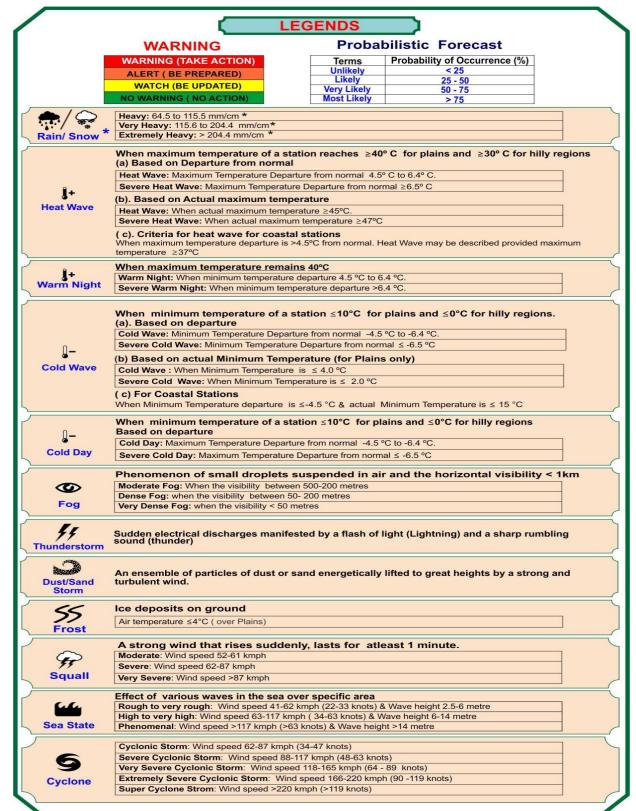
Moderate flash flood risk likely over few watersheds & neighbourhoods of Kerala & Mahe and Tamil Nadu - Pudu & Karaikal Met Sub-divisions during next 24 hours.

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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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.