

Wednesday, July 03, 2024  
Time of Issue: 0800 hours IST  
(MORNING)

**All India Impact Based Weather Warning Bulletin**

**03 July (Day 1):**

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region; **Heavy rainfall** at isolated places over Himachal Pradesh, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, Konkan & Goa, Madhya Maharashtra, Saurashtra & Kutch, Kerala & Mahe, Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Bihar, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, North Interior Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, goa coasts, gulf of Mannar, off Sri Lanka coast, most parts of south Bay of Bengal, central Bay of Bengal & adjoining north Bay of Bengal, off north Andhra Pradesh, south Odisha coasts. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & westcentral Arabian sea, most parts of eastcentral Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

**04 July (Day 2):**

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Uttarakhand, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Gangetic West Bengal, Bihar, Jharkhand, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Interior Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, Goa coasts, gulf of Mannar, off Sri Lanka coast, southwest Bay of Bengal & northern parts of southeast Bay of Bengal, central Bay of Bengal & adjoining northwest Bay of Bengal, off north Andhra Pradesh, south Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over parts of westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & westcentral Arabian sea, most parts of eastcentral Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

#### 05 July (Day 3):

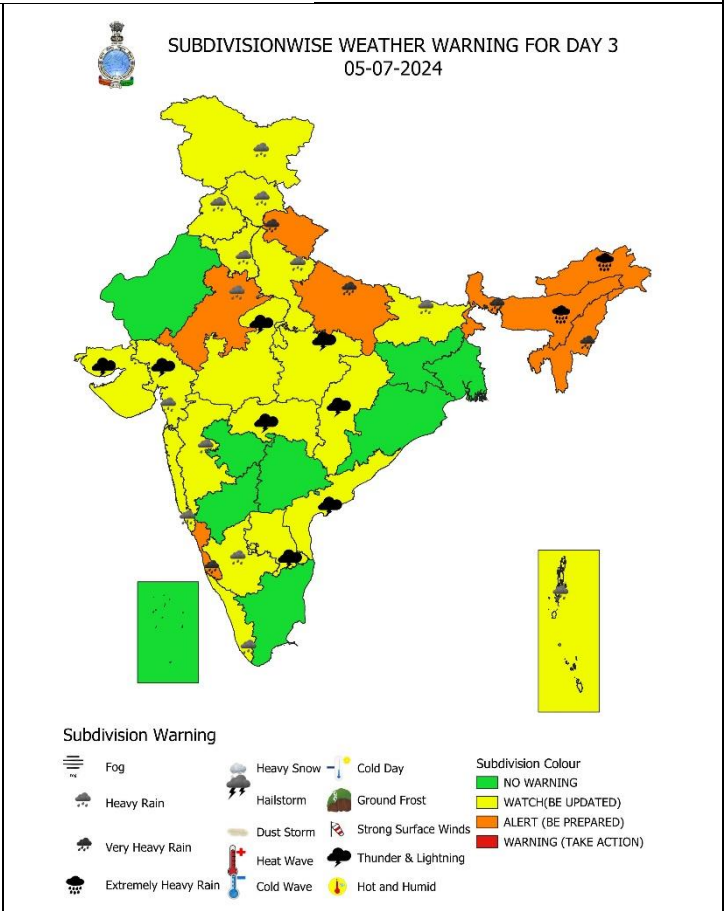
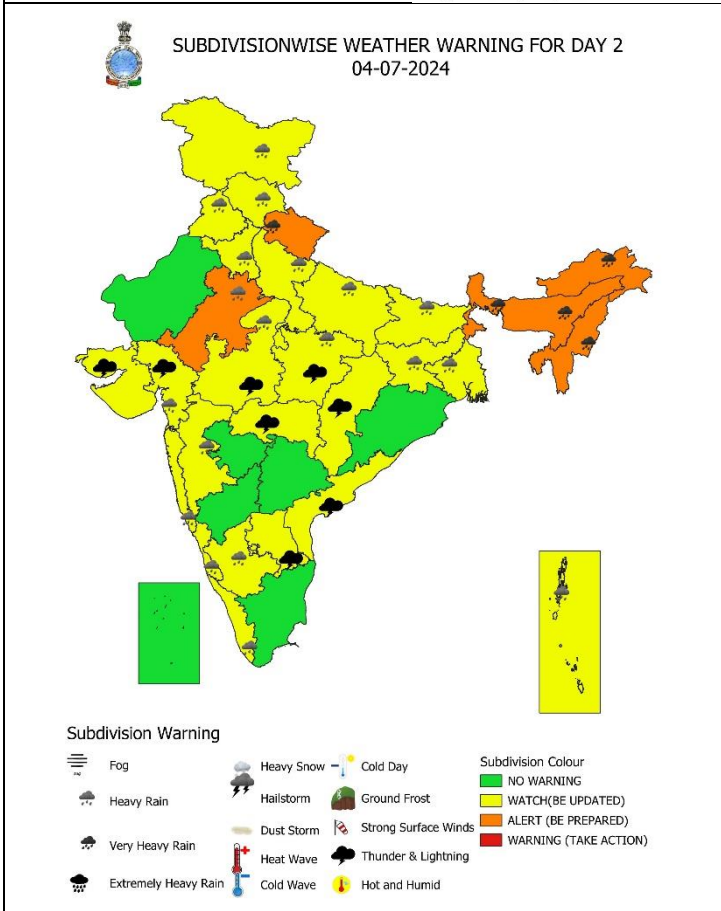
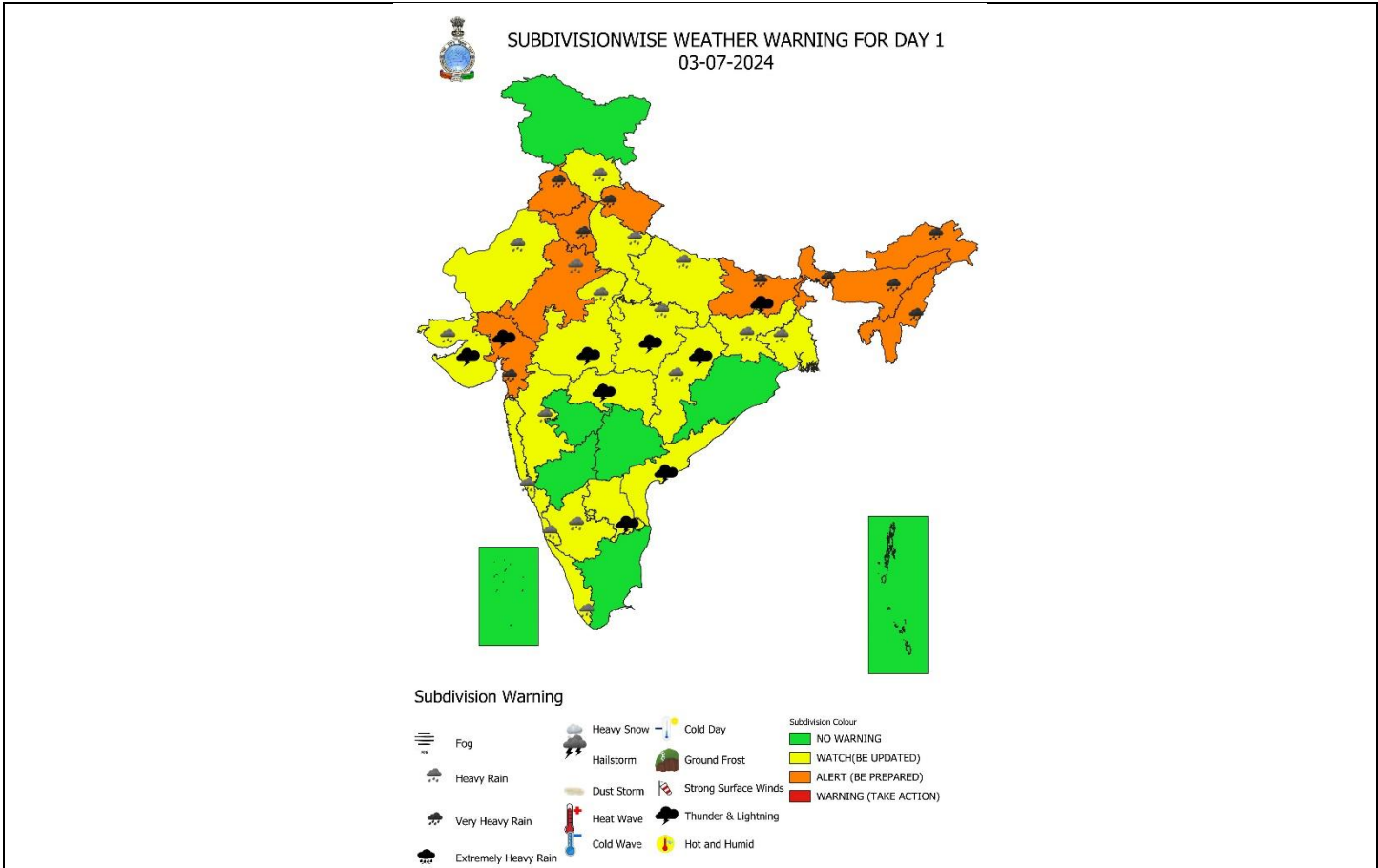
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Andaman & Nicobar Islands, Bihar, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Kerala & Mahe, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Gujarat state, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, North Interior Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, Goa coasts, gulf of Mannar, off Sri Lanka coast, southwest Bay of Bengal & adjoining southeast Bay of Bengal, central Bay of Bengal & adjoining northwest Bay of Bengal, off north Andhra Pradesh, south Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over parts of westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & westcentral Arabian sea, most parts of eastcentral Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

#### 06 July (Day 4):

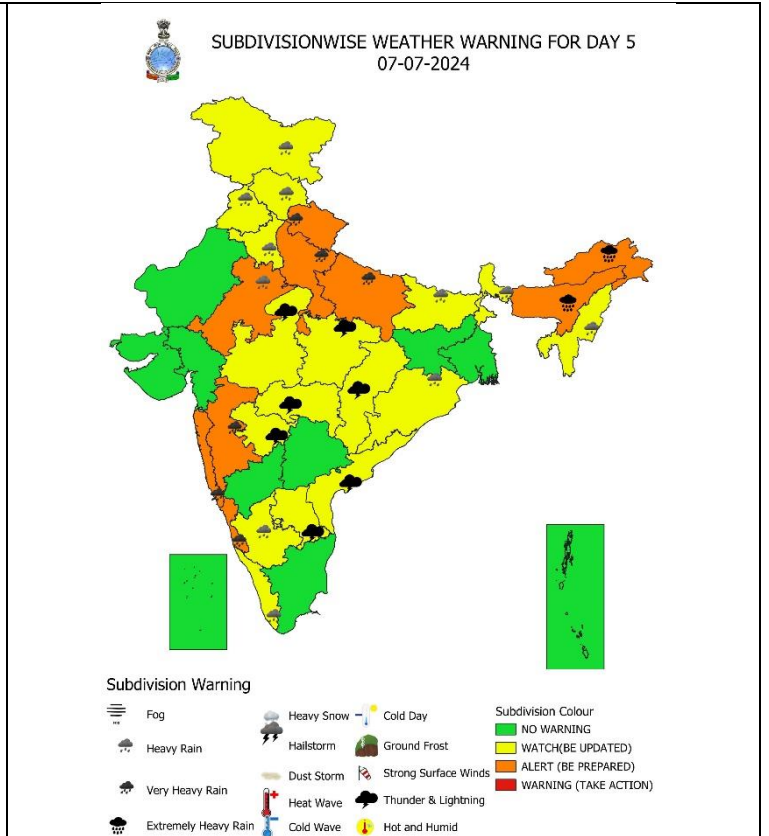
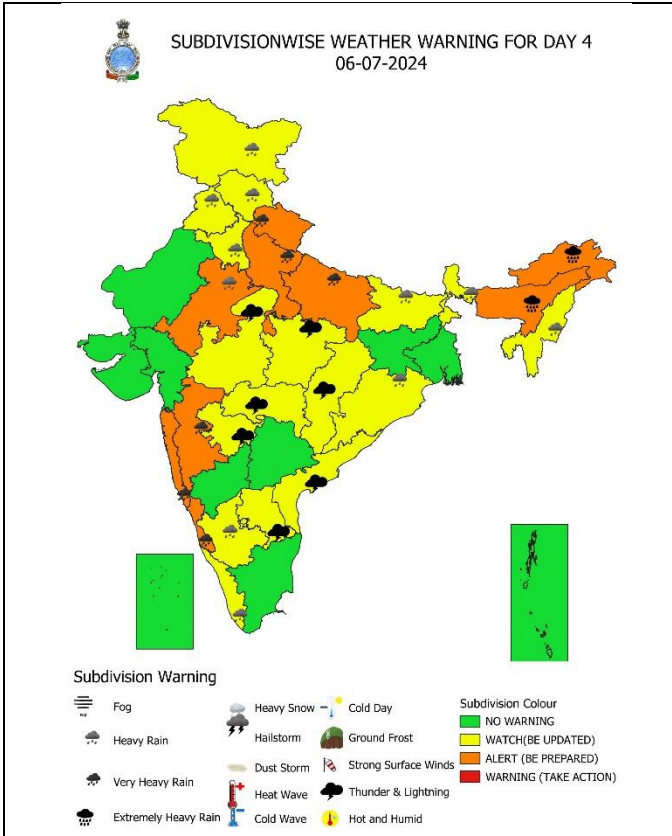
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places Uttarakhand, Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Kerala & Mahe, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, gulf of Mannar, off Sri Lanka coast, south Bay of Bengal & adjoining southeast Bay of Bengal, central Bay of Bengal & adjoining northwest Bay of Bengal, off north Andhra Pradesh coast. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, Maharashtra, Konkan, Goa coasts, over parts of westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & westcentral Arabian sea, most parts of eastcentral Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

#### 07 July (Day 5):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places Uttarakhand, Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Kerala & Mahe, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, gulf of Mannar, off Sri Lanka coast, south Bay of Bengal & adjoining southeast Bay of Bengal, central Bay of Bengal & adjoining northwest Bay of Bengal, off north Andhra Pradesh coast. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, Maharashtra, Konkan, Goa coasts, over parts of westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & westcentral Arabian sea, most parts of eastcentral Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



**\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".**  
**Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.**  
**For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599**  
**(Service to the Nation since 1875)**



### IMPACT & ACTION SUGGESTED due to

- Isolated extremely heavy rainfall very likely over Arunachal Pradesh & Assam & Meghalaya on 05th & 06th July.
- Isolated very heavy rainfall very likely over Uttarakhand during 03rd - 07th, Punjab on 03rd, Haryana on 03rd July; West Uttar Pradesh on 06th; East Uttar Pradesh on 05th & 06th; Bihar on 03rd; Arunachal Pradesh & Assam & Meghalaya during 03rd - 04th; Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura during 03rd- 05th; Konkan & Goa, Madhya Maharashtra on 06th; Gujarat Region on 03rd; Coastal Karnataka on 05th & 06th July.

### 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/landslips/mud slips/landsinks/mudsinks.
- 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.

**\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".**  
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.  
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599  
(Service to the Nation since 1875)

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

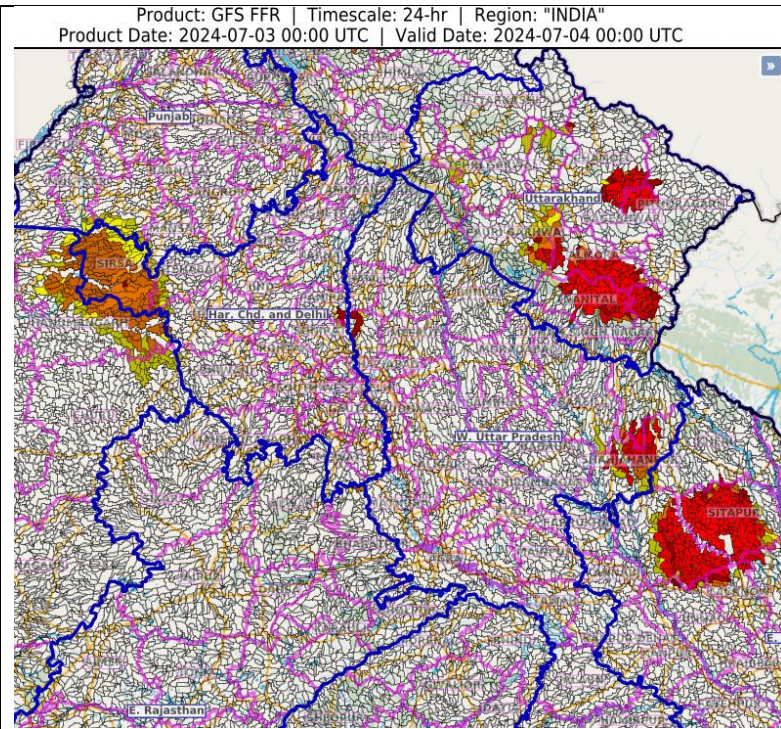
- Make provision for draining out excess water from crop fields to avoid water stagnation in North Eastern States, West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gujarat State, Tamil Nadu, Kerala, Coastal and South Interior Karnataka, Andhra Pradesh and Telangana.
- Postpone land preparation, nursery preparation and transplantation of WRC rice in Arunachal Pradesh.
- Provide mechanical support to horticultural crops & staking to vegetables.

**Flash Flood Guidance:**

**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 04-07-2024 :**

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, Har-Chd & Delhi adjoining Punjab and West Rajasthan Met Sub-divisions.

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.

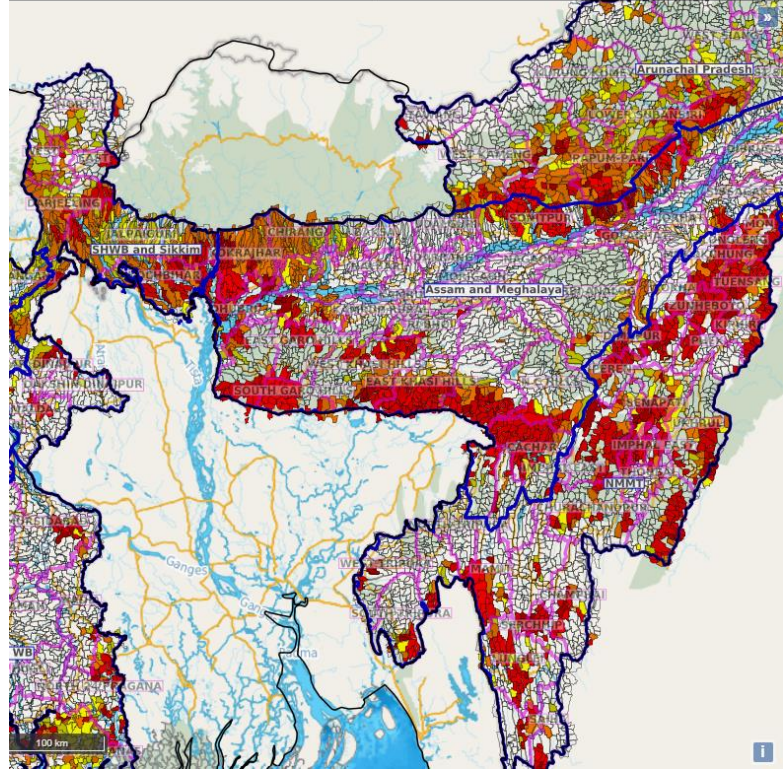


**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 04-07-2024 :**

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of SHWB & Sikkim, Assam & Meghalaya and NMMT Met Sub-divisions.

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.

Product: WRF FFR | Timescale: 24-hr | Region: "INDIA"  
Product Date: 2024-07-03 00:00 UTC | Valid Date: 2024-07-04 00:00 UTC

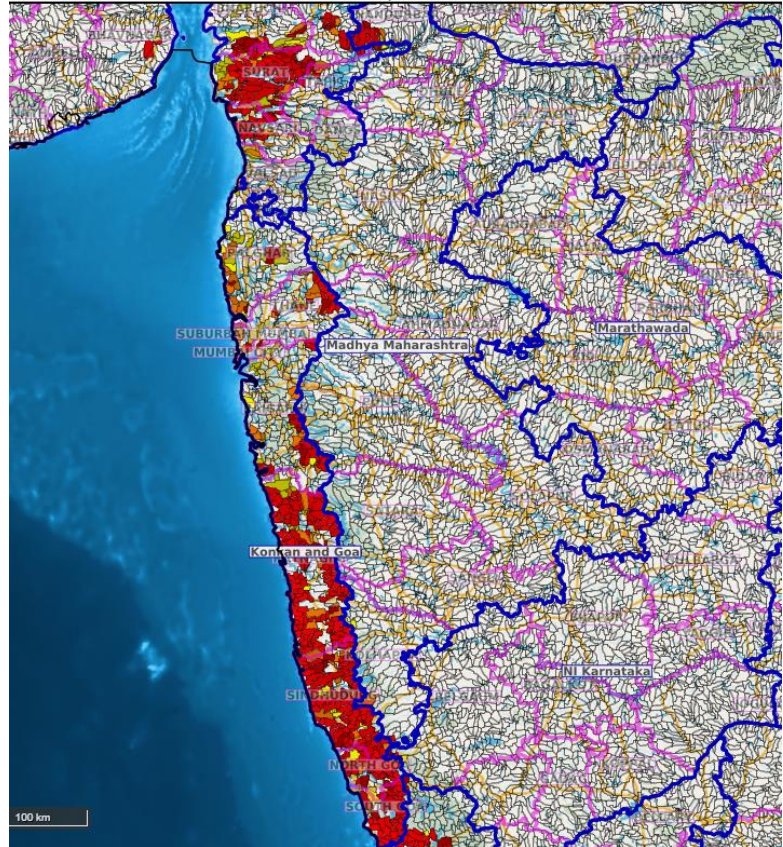


**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 04-07-2024 :**

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of southern parts of Gujarat Region and Konkan & Goa Met Sub-divisions.

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.

Product: WRF FFR | Timescale: 24-hr | Region: "INDIA"  
Product Date: 2024-07-03 00:00 UTC | Valid Date: 2024-07-04 00:00 UTC



## LEGENDS

### WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



**Heavy:** 64.5 to 115.5 mm/cm \*  
**Very Heavy:** 115.6 to 204.4 mm/cm\*  
**Extremely Heavy:** > 204.4 mm/cm \*



**When maximum temperature of a station reaches  $\geq 40^\circ\text{C}$  for plains and  $\geq 30^\circ\text{C}$  for hilly regions**  
**(a) Based on Departure from normal**

**Heat Wave:** Maximum Temperature Departure from normal  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
**Severe Heat Wave:** Maximum Temperature Departure from normal  $\geq 6.5^\circ\text{C}$

**(b). Based on Actual maximum temperature**

**Heat Wave:** When actual maximum temperature  $\geq 45^\circ\text{C}$ .  
**Severe Heat Wave:** When actual maximum temperature  $\geq 47^\circ\text{C}$

**(c). Criteria for heat wave for coastal stations**

When maximum temperature departure is  $>4.5^\circ\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^\circ\text{C}$



**When maximum temperature remains  $40^\circ\text{C}$**

**Warm Night:** When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
**Severe Warm Night:** When minimum temperature departure  $>6.4^\circ\text{C}$ .



**When minimum temperature of a station  $\leq 10^\circ\text{C}$  for plains and  $\leq 0^\circ\text{C}$  for hilly regions.**  
**(a). Based on departure**

**Cold Wave:** Minimum Temperature Departure from normal  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
**Severe Cold Wave:** Minimum Temperature Departure from normal  $\leq -6.5^\circ\text{C}$

**(b) Based on actual Minimum Temperature (for Plains only)**

**Cold Wave :** When Minimum Temperature is  $\leq 4.0^\circ\text{C}$   
**Severe Cold Wave:** When Minimum Temperature is  $\leq 2.0^\circ\text{C}$

**(c) For Coastal Stations**

When Minimum Temperature departure is  $\leq -4.5^\circ\text{C}$  & actual Minimum Temperature is  $\leq 15^\circ\text{C}$



**When minimum temperature of a station  $\leq 10^\circ\text{C}$  for plains and  $\leq 0^\circ\text{C}$  for hilly regions**  
**Based on departure**

**Cold Day:** Maximum Temperature Departure from normal  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
**Severe Cold Day:** Maximum Temperature Departure from normal  $\leq -6.5^\circ\text{C}$



**Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$**

**Moderate Fog:** When the visibility between 500-200 metres  
**Dense Fog:** when the visibility between 50- 200 metres  
**Very Dense Fog:** when the visibility  $< 50$  metres



**Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)**



**An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.**



**Ice deposits on ground**

Air temperature  $\leq 4^\circ\text{C}$  ( over Plains)



**A strong wind that rises suddenly, lasts for atleast 1 minute.**

**Moderate:** Wind speed 52-61 kmph  
**Severe:** Wind speed 62-87 kmph  
**Very Severe:** Wind speed  $>87$  kmph



**Effect of various waves in the sea over specific area**

**Rough to very rough:** Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  
**High to very high:** Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  
**Phenomenal:** Wind speed  $>117$  kmph ( $>63$  knots) & Wave height  $>14$  metre



**Cyclonic Storm:** Wind speed 62-87 kmph (34-47 knots)

**Severe Cyclonic Storm:** Wind speed 88-117 kmph (48-63 knots)

**Very Severe Cyclonic Storm:** Wind speed 118-165 kmph (64 - 89 knots)

**Extremely Severe Cyclonic Storm:** Wind speed 166-220 kmph (90 -119 knots)

**Super Cyclone Storm:** Wind speed  $>220$  kmph ( $>119$  knots)

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.

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".  
 Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.  
 For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599  
 (Service to the Nation since 1875)