



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

> Monday, September 09, 2024 Time of Issue: 2045 hours IST (NIGHT)

All India Impact Based Weather Warning Bulletin

Weather Warnings for next 7 days is given below: (Graphics for warnings & rainfall distribution (Table 1) are given below the text:

09 September (Day 1):

- ★ Heavy to very heavy rainfall (≥12 cm) with extremely heavy falls (>20 cm) very likely at isolated places over Odisha, Vidarbha and Chhattisgarh; Very heavy rainfall (≥12 cm) at isolated places over East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana; Heavy rainfall (≥7 cm) at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, ghat areas of Madhya Maharashtra, Gujarat Region, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe; with lightning very likely at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over southern parts of east central Arabian sea, along and off Sri Lanka coast, along and off Andhra Pradesh coast, most parts of south, central, and north Bay of Bengal, Andaman Sea. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over gulf of Mannar, along and off south Tamil Nadu, many parts of south, central, and north Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over gulf of Mannar, along and off south Tamil Nadu, many parts of south, central, and north Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph to prevail over western parts of southwest Arabian sea & adjoining parts of westcentral Arabian sea, along and off Somalia coast. Squally winds with speed reaching 55 kmph to 65 kmph gusting to 75 kmph likely to prevail along and off north Andhra Pradesh, Odisha, west Bengal coasts adjoining northwest and west central Bay of Bengal. Fishermen are advised not to venture into these areas.

10 September (Day 2):

- ★ Heavy to very heavy rainfall (≥12 cm) with extremely heavy falls (>20 cm) very likely at isolated places over East Madhya Pradesh; Very heavy rainfall (≥12 cm) very likely at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Odisha; Heavy rainfall (≥7 cm) at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Chhattisgarh, Gangetic West Bengal, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Coastal Karnataka & South Interior Karnataka.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe, Telangana; with lightning very likely at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over many parts of east central and few northern parts of south Arabian sea, along and off srilanka coast, most parts of south and central Bay of Bengal, northwest Bay of Bengal, many parts of northeast Bay of Bengal, along and off Andhra Pradesh, Odisha, west Bengal coasts, over north Andaman Sea. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over gulf of Mannar, most parts of westcentral adjoining parts of eastcentral Bay of Bengal, along and off north Andhra Pradesh, Odisha, west Bengal coasts, over north Andhra Pradesh, Odisha, west Bengal coasts, over northwest Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea & adjoining parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.





11 September (Day 3):

- ✤ Heavy to very heavy rainfall (≥12 cm) very likely at isolated places over Uttar Pradesh, Madhya Pradesh, East Rajasthan, Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall (≥7 cm) at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Gujarat Region & Coastal Karnataka.
- Thunderstorm accompanied with lighting and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Telangana; with lightning at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Gujarat Region.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is very likely to prevail over many parts of east central, northern parts of southwest & adjoining southeast Arabian sea, along and off srilanka coast, most parts of south and central Bay of Bengal, northwest Bay of Bengal, along and off north Andhra Pradesh, Odisha coasts. squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over, gulf of Mannar, along and off south Tamilnadu coast, some parts of westcentral Bay of Bengal. squally winds with speed reaching 45 kmph likely to prevail over western parts of southwest Arabian sea & adjoining parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.

12 September (Day 4):

- ✤ Heavy to very heavy rainfall (≥12 cm) likely at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall (≥7 cm) likely at isolated places over East Uttar Pradesh, Madhya Pradesh, West Bengal & Sikkim, Bihar, Jharkhand & Arunachal Pradesh.
- **Thunderstorm accompanied with lighting** likely at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha Bihar.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail many parts of east central, northern parts of southwest & adjoining southeast Arabian sea, over gulf of Mannar, along and off srilanka coast, many parts of south and central Bay of Bengal. squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over many parts of southeast & adjoining parts of eastcentral Bay of Bengal. squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea & southwestern parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.

13 September (Day 5):

- ✤ Heavy to very heavy rainfall (≥12 cm) likely at isolated places over Uttarakhand, West Uttar Pradesh, Meghalaya, Nagaland, Manipur, Mizoram & Tripura; Heavy rainfall (≥7 cm) likely at isolated places East Uttar Pradesh, East Rajasthan, Madhya Pradesh, West Bengal & Sikkim, Bihar, Jharkhand.
- Thunderstorm accompanied with lighting likely at isolated places over Uttarakhand, over East Rajasthan, Madhya Pradesh, Vidarbha.
- Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail many parts of east central & adjoining parts of westcentral Arabian sea, over gulf of Mannar, off srilanka coast, many parts of south and central Bay of Bengal, southern parts of northwest Bay of Bengal. squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over many parts of southeast & adjoining parts of eastcentral Bay of Bengal. squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over many parts of southeast & adjoining parts of eastcentral Bay of Bengal. squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over western parts of southwest Arabian sea & southwestern parts of westcentral Arabian sea, along and off Somalia coast. Fishermen are advised not to venture into these areas.

14 September (Day 6):

✤ Heavy rainfall (≥7 cm) likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Assam & Meghalaya.

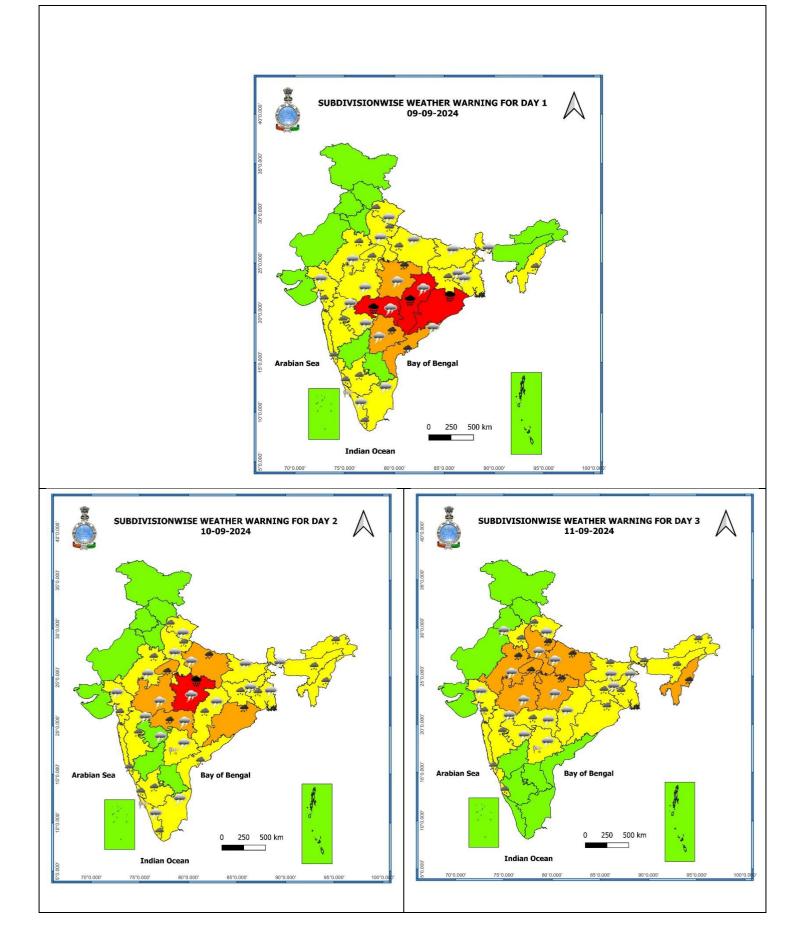
15 September (Day 7):

♦ **Heavy rainfall (≥7 cm)** likely at isolated places over East Rajasthan & East Madhya Pradesh.





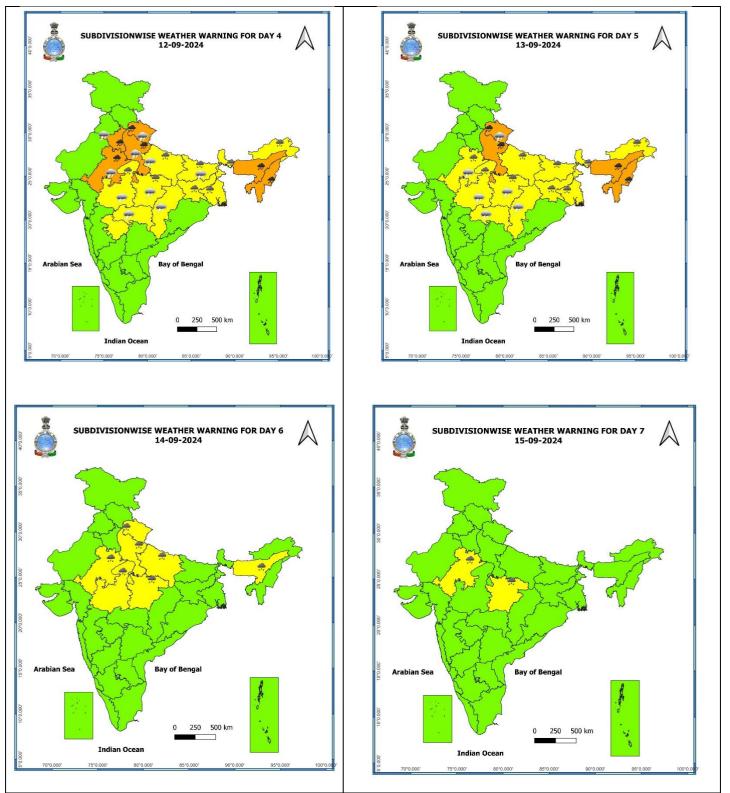
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- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	09- Sep Day	10- Sep Day	11- Sep Day	12- Sep Day	13- Sep Day	14- Sep Day	15- Sep Day
100.		1 Day	2	3	4	5	6	7
1	ANDAMAN & NICOBAR ISLANDS	FWS						
2	ARUNACHAL PRADESH	SCT	SCT	FWS	FWS	FWS	SCT	SCT
3	ASSAM & MEGHALAYA	SCT	FWS	FWS	FWS	FWS	SCT	SCT
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	WS	WS	WS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	FWS	WS	WS	WS	WS	FWS
6	GANGETIC WEST BENGAL	FWS	WS	WS	WS	WS	WS	FWS
7	ODISHA	WS	WS	FWS	FWS	FWS	SCT	SCT
8	JHARKHAND	FWS	WS	WS	WS	FWS	FWS	FWS
9	BIHAR	SCT	SCT	FWS	FWS	FWS	FWS	SCT
10	EAST UTTAR PRADESH	SCT	WS	WS	WS	FWS	FWS	SCT
11	WEST UTTAR PRADESH	SCT	FWS	WS	WS	FWS	SCT	ISOL
12	UTTARAKHAND	FWS	FWS	FWS	WS	WS	WS	FWS
13	HARYANA CHANDIGARH & DELHI	SCT	SCT	SCT	FWS	SCT	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
17	WEST RAJASTHAN	ISOL						
18	EAST RAJASTHAN	WS	FWS	FWS	FWS	SCT	SCT	SCT
19	WEST MADHYA PRADESH	FWS	FWS	FWS	WS	WS	FWS	FWS
20	EAST MADHYA PRADESH	FWS	FWS	WS	WS	FWS	FWS	FWS
21	GUJARAT REGION	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
22	SAURASHTRA & KUTCH	WS	WS	WS	WS	WS	SCT	SCT
23	KONKAN & GOA	WS						
24	MADHYA MAHARASHTRA	SCT	SCT	SCT	FWS	FWS	FWS	SCT
25	MARATHAWADA	WS	FWS	SCT	FWS	FWS	SCT	SCT
26	VIDARBHA	FWS	WS	WS	FWS	FWS	SCT	FWS
27	CHHATTISGARH	WS	WS	FWS	SCT	SCT	SCT	SCT
28	COASTAL ANDHRA PRADESH & YANAM	FWS	SCT	SCT	ISOL	ISOL	SCT	SCT
29	TELANGANA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL						
32	COASTAL KARNATAKA	WS	WS	WS	WS	FWS	SCT	SCT
33	NORTH INTERIOR KARNATAKA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL						
35	KERALA & MAHE	WS	WS	WS	FWS	FWS	SCT	SCT
36	LAKSHADWEEP	WS	WS	FWS	FWS	FWS	SCT	SCT

• As the lead period increases forecast accuracy decreases.





Impact due to

- ✓ Isolated extremely heavy rainfall very likely over Vidarbha, Odisha & Chhattisgarh on 09th; East Madhya Pradesh on 10th September.
- Very heavy rainfall at isolated over Coastal Andhra Pradesh & Yanam & Telangana on 09th; Uttarakhand on 12th & 13th; Haryana-Chandigarh-Delhi on 12th; West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura during 11th -13th; East Uttar Pradesh, West Madhya Pradesh on 10th & 11th; East Rajasthan on 11th & 12th; East Madhya Pradesh during 09th -11th; Vidarbha, Odisha on 10th; Assam & Meghalaya on 12th & 13th September.
- ✓ Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Himachal Pradesh, Uttarakhand and Vidarbha; Moderate to high flash flood risk likely over few watersheds & neighbourhoods of Chhattisgarh, East Madhya Pradesh and Odisha on 09th & 10th September. (ANNEXURE I)

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.
- ✓ Reduction of visibility over sea area due to sea spray induced by strong wind and 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

- ✓ Judicious regulation of offshore/onshore Operations
- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ 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

- ✓ Postpone transplanting of rice in North Coastal **Andhra Pradesh**.
- ✓ Drain out excess water from rice, soybean, red gram, maize, cotton and turmeric in **Telangana**; from rice, finger millet, maize and groundnut in **Odisha**; from rice, maize, sugarcane, black gram, horse gram and niger crops in **Chhattisgarh** to prevent water logging.
- ✓ Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Haryana, East Rajasthan, Gangetic West Bengal, Sub Himalayan West Bengal, Jharkhand, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gujrat region, Kerala, and Karnataka.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer place.





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Flash Flood Guidance:

24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 10-09-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

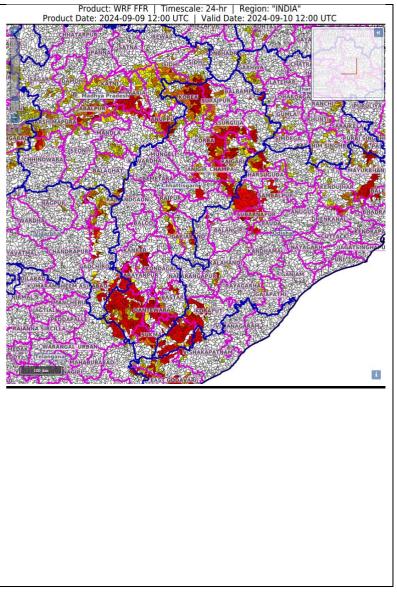
Vidarbha – Bhandara, Gadchiroli, Gondiya and Nagpur

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours. Chhattisgarh - Rajnandgaon, Bastar, Bijapur, Baloda Bazar, Bilaspur, Dantewara, Dhamtari, Gariaband, Janjgir, Champa, Kanker, Kondagaon, Mungeli, Narayanpur, Raigarh, Korba, Jashpur Korea and Sukma districts.

Odisha – Jharsuguda, Baragarh, Sambhalpur, and Koraput districts.

East Madhya Pradesh -Anuppur, Balaghat, Chhindwara, , Damoh, Dindori, Jabalpur, Katni, Mandla, , Narshimapura, Niwari, Rewa, Sagar, Shahdol, Sidhi, Singrauli, and Umaria districts.

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







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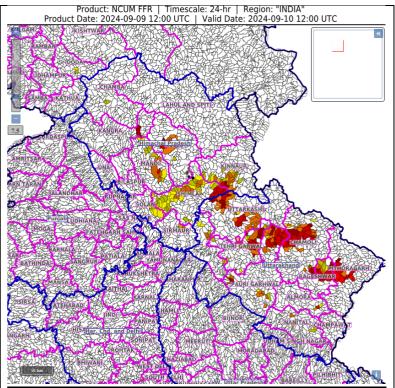
24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 10-09-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Himachal Pradesh – Shimla, Mandi, Kullu, Solan, Sirmaur and Kimmaur districts

Uttarakhand - Bageshwar, Chamoli, Dehradun, Pauri Garhwal, Pithoragarh, Rudraprayag, Tehri Garwal and Uttarkashi districts.

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

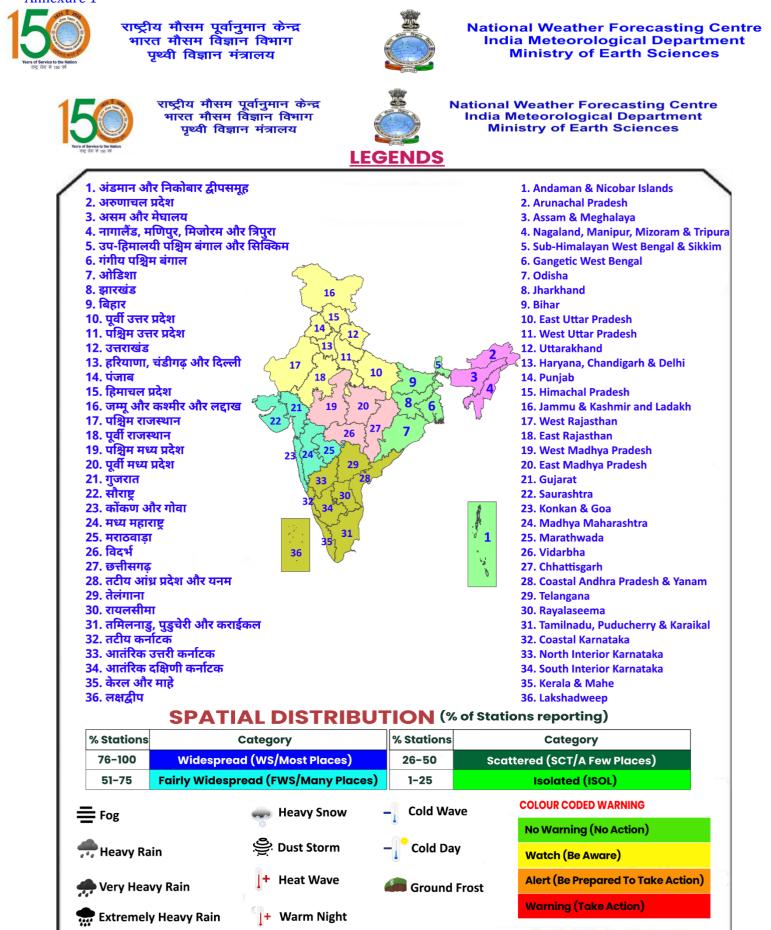






Legends & abbreviations:

- ✤ 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.



Probabilistic Forecast

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

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Hot Day

🔁 Hot & Humid

Strong Surface Winds

Thunder & Lightning

Hailstorm

< Dust Raising Winds

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)





DEFINITION/CRITERIA

4	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow [*]	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches $\ge 40^{\circ}$ C for plains and $\ge 30^{\circ}$ C for hilly regions (a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations
	When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cold Day	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
Thunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Frost	Ice deposits on ground
TTOST	Air temperature ≤4°C (over Plains)
	A strong wind that rises audder by losts for atlanet 4 minute
Squall	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
Sea State	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 41-62 kmph (22-33 khots) & 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 82-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	very severe Cyclonic Storm: wind speed 118-165 (mpn (64 - 89 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

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