



## All India Impact Based Weather Warning Bulletin

Wednesday 22 July 2021

Time of Issue: 0800 hours IST

(MORNING)

**22 July (Day 1):** ♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** very likely at isolated places over Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely heavy falls** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Ghat Areas of Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana; **Heavy to Very Heavy Rainfall** at isolated places over West Madhya Pradesh, Odisha, Marathwada and Coastal Karnataka and **Heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Rayalseema, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & squall (speed 50-60 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttar Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; South & adjoining Central Bay of Bengal & Andaman Sea and Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

**23 July (Day 2):** ♦ **Heavy to Very Heavy Rainfall** with **Extremely Heavy Falls** very likely at isolated places over Telangana; **Heavy to Very Heavy Rainfall** at a few places over Konkan & Goa; **Heavy to Very Heavy Rainfall** at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Odisha, Ghat Areas of Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe and **Heavy rainfall** at isolated places over Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Gujarat region, Marathwada, Coastal Andhra Pradesh & Yanam and Interior Karnataka.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Rajasthan, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalseema, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

\* Red color warning does not mean "Red Alert" Red color 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 [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Service to the Nation since 1875)



**24 July (Day 3):** ♦ **Heavy to Very Heavy Rainfall** likely at isolated places over Gujarat region and Konkan & Goa and **Heavy rainfall** at isolated places over Rajasthan, Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Saurashtra & Kutch, Ghat areas of Madhya Maharashtra, Telangana, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, East Uttar Pradesh and Rajasthan.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

**25 July (Day 4):** ♦ **Heavy to Very Heavy Rainfall** likely at isolated places over Uttarakhand, Andaman & Nicobar Islands, Gujarat Region and **Heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Ghat areas of Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & squall (speed 50-60 kmph)** likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

**26 July (Day 5):** ♦ **Heavy to Very Heavy Rainfall** likely at isolated places over Uttarakhand, Andaman & Nicobar Islands, Gujarat Region and **Heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Ghat areas of Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & squall (speed 50-60 kmph)** likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan.

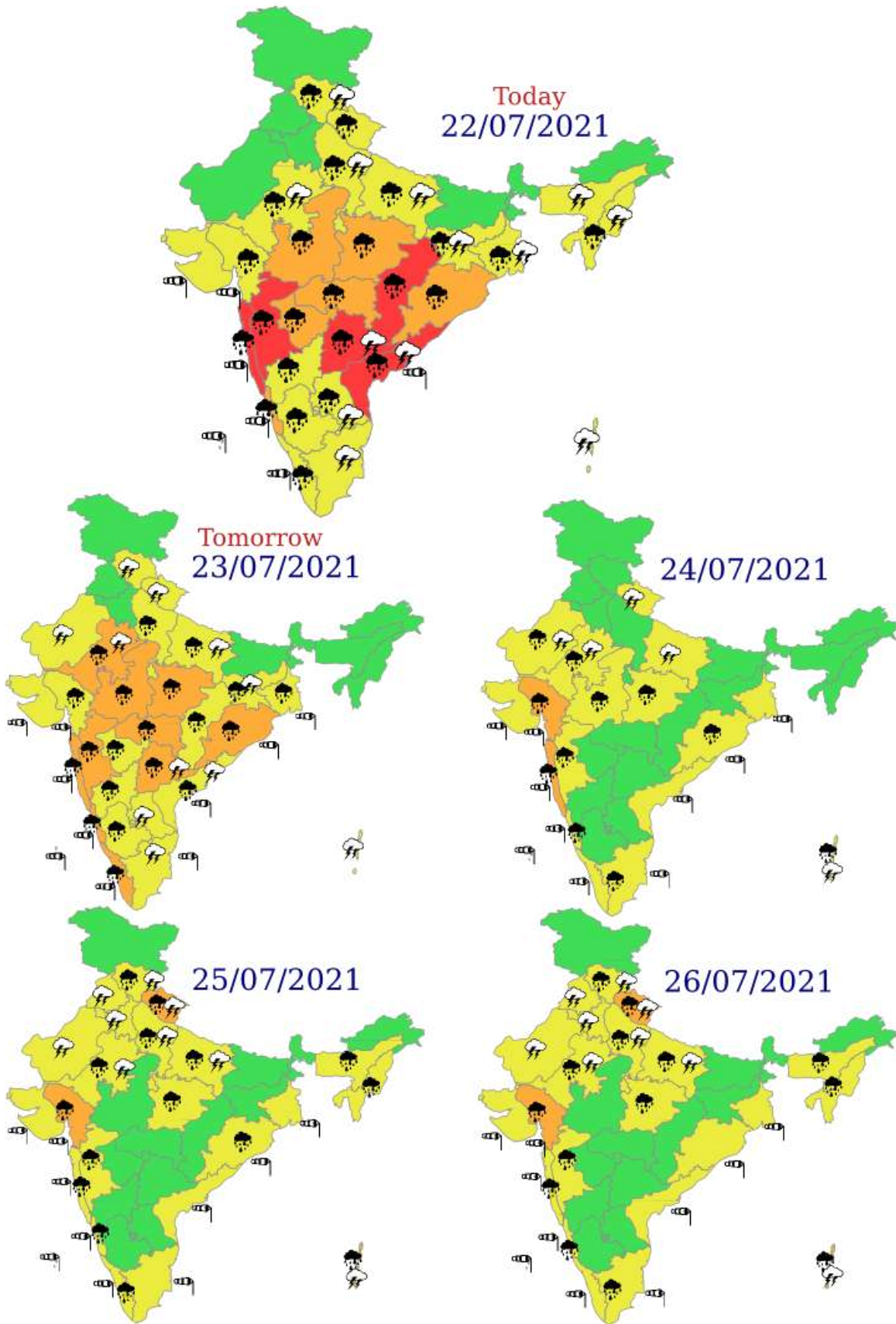
♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

\* Red color warning does not mean "Red Alert" Red color 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 [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Service to the Nation since 1875)



\* Red color warning does not mean "Red Alert" Red color 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 [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Service to the Nation since 1875)



**EXPECTED IMPACT & ACTION SUGGESTED due to Heavy to very heavy/  
Extremely heavy rainfall over Konkan & Goa, Ghat Areas of Madhya  
Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Madhya Pradesh,  
Vidarbha, Chhattisgarh, Odisha and Coastal Karnataka during next 3 days.**

**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.

\* Red color warning does not mean "Red Alert" Red color 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 [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Service to the Nation since 1875)





**EXPECTED IMPACT & ACTION SUGGESTED due to thunderstorms & lightning over Andaman & Nicobar Islands and East Madhya Pradesh during next 24 hours.**

**A. Impact Expected:**

- Damage to thatched huts and asbestos roofed houses and cars. Roof tops may blow off.
- Unattached metal sheets may fly.
- Damage to power and communication lines due to breaking of tree branches.
- Damage to standing crops.
- Lightning strikes to ground.
- Flash flood due to associated rain

**B. Action Suggested**

- Farmers should not go in open fields.
- Cattle grazers and animals should not be in open.
- No fishing or boat movement.
- Mango and litchi orchards should be out of bound for any activity specially by children.
- Do not take shelter under isolated trees.
- Immediately get out of and away from ponds, lakes, and outdoor watery area (e.g. paddy transplantation).
- Go indoors or seek safe pukka shelters after hearing thunder. Stay indoors for 30 minutes after hearing the last clap of thunder.
- If no shelter is available, immediately get into the lightning crouch.
- During travel, stay inside car or bus or train when thunderstorm occurs.
- Do not use electric/ electronic appliance.
- Stay away from downed power lines.

\* Red color warning does not mean "Red Alert" Red color 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 [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Service to the Nation since 1875)



### LEGENDS

WARNING (TAKE ACTION)	Probabilistic Forecast	
ALERT ( BE PREPARED)	Terms	Probability of Occurrence (%)
WATCH (BE UPDATED)	Unlikely	< 25
NO WARNING ( NO ACTION)	Likely	25 - 50
	Very Likely	50 - 75
	Most Likely	> 75

 <b>Rain/ Snow</b>	<p>Heavy: 64.5 to 115.5 mm/cm *</p> <p>Very Heavy: 115.6 to 204.4 mm/cm *</p> <p>Extremely Heavy: &gt; 204.4 mm/cm *</p>
 <b>Heat Wave</b>	<p>When maximum temperature of a station reaches <math>\geq 40^{\circ}\text{C}</math> for plains and <math>\geq 30^{\circ}\text{C}</math> for hilly regions</p> <p>(a) Based on Departure from normal</p> <p>Heat Wave: Maximum Temperature Departure from normal <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.</p> <p>Severe Heat Wave: Maximum Temperature Departure from normal <math>\geq 6.5^{\circ}\text{C}</math></p> <p>(b). Based on Actual maximum temperature</p> <p>Heat Wave: When actual maximum temperature <math>\geq 45^{\circ}\text{C}</math>.</p> <p>Severe Heat Wave: When actual maximum temperature <math>\geq 47^{\circ}\text{C}</math></p> <p>( c). Criteria for heat wave for coastal stations</p> <p>When maximum temperature departure is <math>&gt;4.5^{\circ}\text{C}</math> from normal. Heat Wave may be described provided maximum temperature <math>\geq 37^{\circ}\text{C}</math></p>
 <b>Warm Night</b>	<p>When maximum temperature remains <math>40^{\circ}\text{C}</math></p> <p>Warm Night: When minimum temperature departure <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.</p> <p>Severe Warm Night: When minimum temperature departure <math>&gt;6.4^{\circ}\text{C}</math>.</p>
 <b>Cold Wave</b>	<p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions.</p> <p>(a). Based on departure</p> <p>Cold Wave: Minimum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.</p> <p>Severe Cold Wave: Minimum Temperature Departure from normal <math>\geq -6.5^{\circ}\text{C}</math></p> <p>(b) Based on actual Minimum Temperature (for Plains only)</p> <p>Cold Wave : When Minimum Temperature is <math>\leq 4.0^{\circ}\text{C}</math></p> <p>Severe Cold Wave: When Minimum Temperature is <math>\leq 2.0^{\circ}\text{C}</math></p> <p>( c) For Coastal Stations</p> <p>When Minimum Temperature departure is <math>\leq -4.5^{\circ}\text{C}</math> or actual Minimum Temperature is <math>\leq 15^{\circ}\text{C}</math></p>
 <b>Cold Day</b>	<p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions</p> <p>Based on departure</p> <p>Cold Day: Maximum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.</p> <p>Severe Cold Day: Maximum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p>
 <b>Fog</b>	<p>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></p> <p>Moderate Fog: When the visibility between 500-200 metres</p> <p>Dense Fog: when the visibility between 50-200 metres</p> <p>Very Dense Fog: when the visibility <math>&lt; 50</math> metres</p>
 <b>Thunderstorm</b>	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
 <b>Dust/Sand Storm</b>	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
 <b>Frost</b>	<p>Ice deposits on ground</p> <p>Air temperature <math>\leq 4^{\circ}\text{C}</math> ( over Plains)</p>
 <b>Squall</b>	<p>A strong wind that rises suddenly, lasts for atleast 1 minute.</p> <p>Moderate: Wind speed 52-61 kmph</p> <p>Severe: Wind speed 62-87 kmph</p> <p>Very Severe: Wind speed <math>&gt;87</math> kmph</p>
 <b>Sea State</b>	<p>Effect of various waves in the sea over specific area</p> <p>Rough to very rough: Wind speed 41-62 kmph (22-33 knots) &amp; Wave height 2.5-6 metre</p> <p>High to very high: Wind speed 63-117 kmph ( 34-63 knots) &amp; Wave height 6-14 metre</p> <p>Phenomenal: Wind speed <math>&gt;117</math> kmph (<math>&gt;63</math> knots) &amp; Wave height <math>&gt;14</math> metre</p>
 <b>Cyclone</b>	<p>Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)</p> <p>Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)</p> <p>Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)</p> <p>Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)</p> <p>Super Cyclone Storm: Wind speed <math>&gt;220</math> kmph (<math>&gt;119</math> knots)</p>

\* Red color warning does not mean "Red Alert" Red color 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

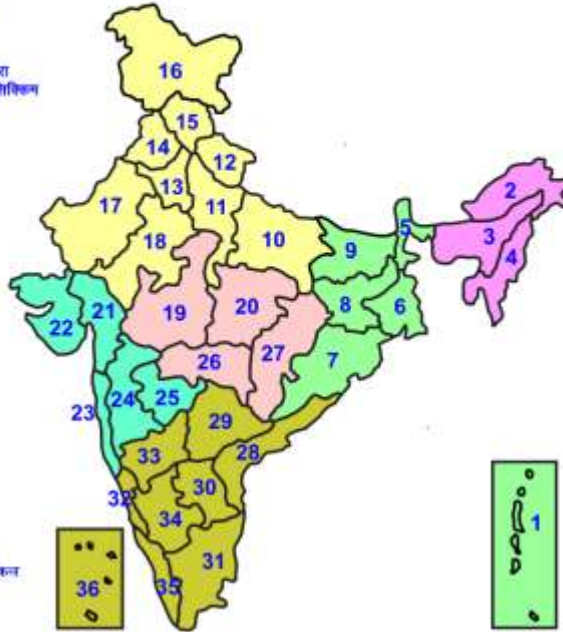
For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Service to the Nation since 1875)



## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कोकण एवं कर्नाटक
- 24 मध्य महाराष्ट्र
- 25 महाराष्ट्र
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं कर्नाटक
- 29 तेलंगाना
- 30 दक्षिण तटीय
- 31 तमिलनाडु, पुदुचेरी एवं कर्नाटक
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## 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 Rain	Heavy Snow	Thunderstorm	Dust Storm
Strong Winds	Visibility	Cyclone	Squall/ Hail
Frost	Cold Wave	Heat Wave	Sea State

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 color warning does not mean "Red Alert" Red color 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 [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798