



All India Impact Based Weather Warning Bulletin

Thursday 10 June 2021
Time of Issue: 1345 hours IST

(MID-DAY)

10 June (Day 1): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Telangana and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe

♦ **Heat Wave Conditions** at isolated places very likely over south Haryana and West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Chhattisgarh, Odisha, Konkan & Goa and Coastal Andhra Pradesh & Yanam and **Heavy Rainfall** at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Gujarat Region, Telangana and Coastal Karnataka.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south & central & adjoining north Bay of Bengal ; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

11 June (Day 2): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Telangana and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe.

♦ **Heat Wave Conditions** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Chhattisgarh; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over Odisha; **Heavy to Very Heavy Rainfall** at a few places over Konkan & Goa and at isolated places over East Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam and **Heavy Rainfall** at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra (ghat areas), Telangana and Coastal Karnataka.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala 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

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12 June (Day 3): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Karnataka.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places very likely over Chhattisgarh and Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over Vidarbha and Odisha; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra (ghat areas) and Telangana and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

13 June (Day 4): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over West Madhya Pradesh, Jharkhand, Odisha, Madhya Maharashtra (ghat areas), Telangana and South Interior Karnataka and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, south Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

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14 June (Day 5): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. ♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra (ghat areas), South Interior Karnataka and Kerala & Mahe and **Heavy Rainfall** at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.

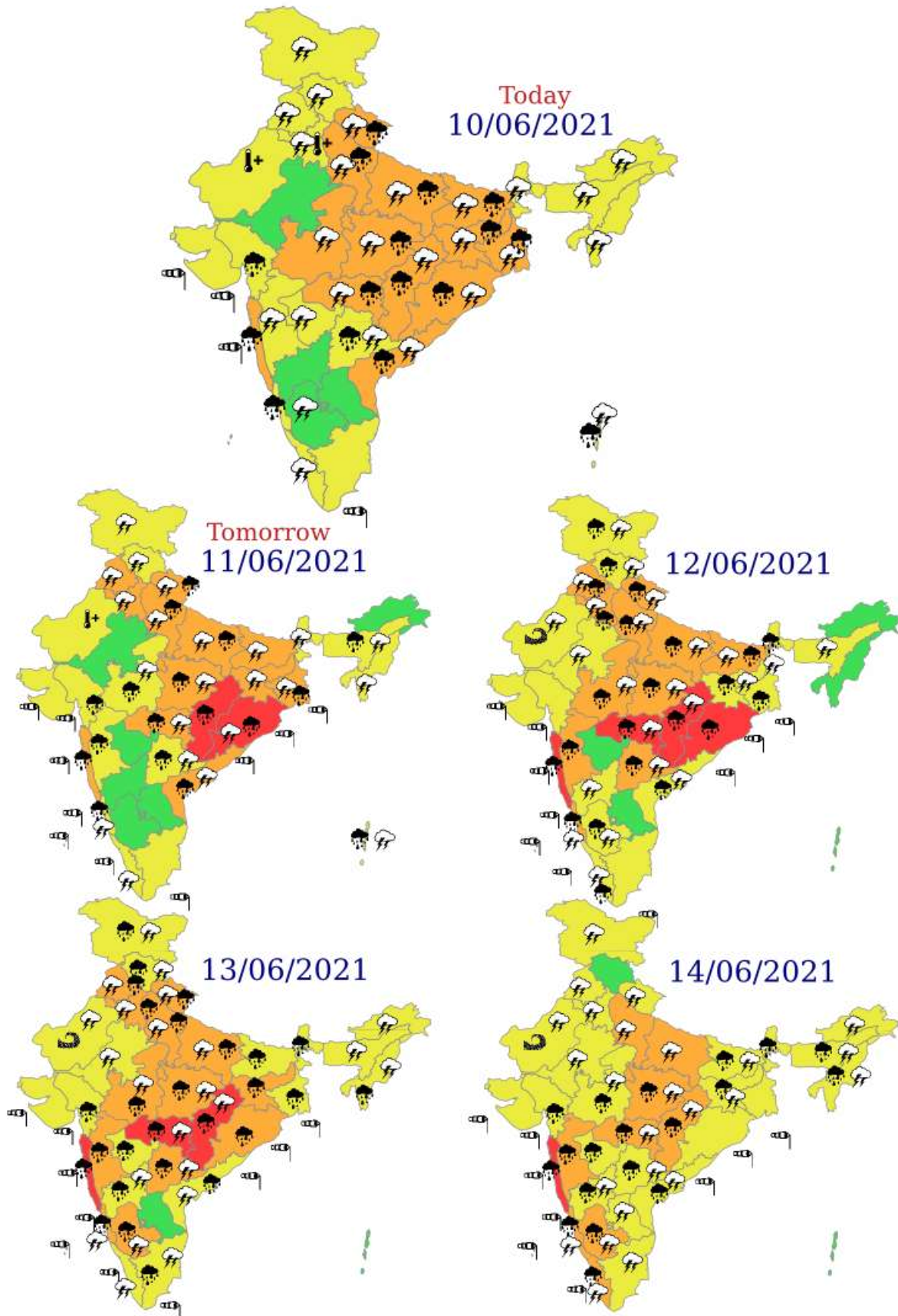
♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along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

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EXPECTED IMPACT & ACTION SUGGESTED DUE TO isolated to scattered heavy to very heavy falls over most parts of East India & adjoining Central India from today. Isolated extremely heavy falls (≥ 20 cm) over Odisha on 11th & 12th; over Chhattisgarh during 11th-13th; over East Madhya Pradesh on 13th; over Vidarbha on 12th & 13th, June 2021.

Heavy to very heavy rainfall over coastal districts of Maharashtra during 10th to 15th June and likely over coastal Karnataka during 12th to 15th June, 2021. Isolated heavy rainfall over Kerala during 12th to 15th June, 2021. Isolated extremely heavy falls over Konkan during 12th to 15th June, 2021.

Isolated heavy rainfall over northwest India (excluding Rajasthan) during 12th to 14th June, 2021. Isolated very heavy rainfall over Uttarakhand and Uttar Pradesh on 12th June.

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.

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EXPECTED IMPACT & ACTION SUGGESTED in association with thunderstorm activity accompanied by frequent cloud to ground lightning over Madhya Pradesh, Uttarakhand, Uttar Pradesh, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 2-3 days

A. Impact Expected:

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

B. Action Suggested

1. DO NOT take shelter under isolated trees.
2. Immediately get out of and away from ponds, lakes, and outdoor watery area (e.g. paddy transplantation).
3. Go indoors or seek safe pukka shelters after hearing thunder. Stay indoors for 30 minutes after hearing the last clap of thunder.
4. If no shelter is available, immediately get into the lightning crouch
5. During travel, stay inside car or bus or train when thunderstorm occurs.
6. Do not use electric/ electronic appliance
7. Stay away from downed power lines

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LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

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



Rain/ Snow *
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°C to 6.4°C .

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

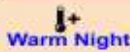
(b) Based on Actual maximum temperature

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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\geq -6.5^\circ\text{C}$.

(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 $\leq -4.5^\circ\text{C}$ or 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°C to -6.4°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)

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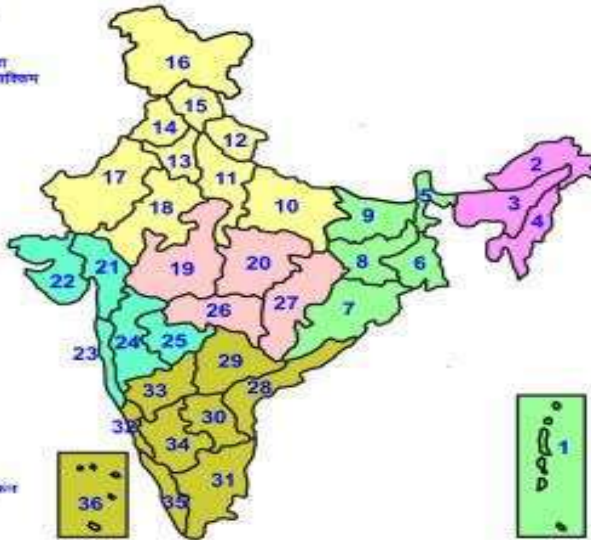
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LEGENDS

1. अंडमान और निकोबार द्वीप समूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. पश्चिम बंगाल, असम, सिक्किम
6. पश्चिम बंगाल
7. ओडिशा
8. झारखण्ड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखण्ड
13. हरियाणा, हिमाचल प्रदेश, दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू & कश्मीर, लद्दाख
17. पश्चिम राजस्थान
18. उत्तर राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कर्नाटक
24. मध्य महाराष्ट्र
25. महाराष्ट्र
26. कोकण, पुणे, मराठा
27. चम्पारण
28. मध्य प्रदेश
29. तमिलनाडु
30. केरल
31. केरल
32. केरल
33. केरल
34. केरल
35. केरल
36. केरल



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. Maharashtra
26. Maharashtra
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

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

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.

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