



All India Impact Based Weather Warning Bulletin

Tuesday 04TH May 2021
Time of Issue: 0800 hours IST

(MORNING)

04 May (Day 1): ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya; with **lightning, hail & gusty wind** (speed reaching 30-40 kmph) at isolated places over Uttarakhand and Telangana; with **lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal and Odisha; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Rayalaseema, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe and with **lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Marathwada, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy rainfall** very likely at isolated places over Assam & Meghalaya, West Bengal & Sikkim and Odisha.

05 May (Day 2): ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand and Telangana; with **lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over Jharkhand and Odisha; with **lightning, hail & gusty wind** (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with **lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Rayalaseema, Coastal & South Interior Karnataka and Lakshadweep.

♦ **Heavy rainfall** very likely at isolated places over Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Coastal & South Interior Karnataka.

06 May (Day 3): ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand and Telangana; with **lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over Jharkhand; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Chhattisgarh, Vidarbha, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada and Kerala & Mahe and with **lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

♦ **Thunderstorm/Duststorm** (speed reaching 40-50 kmph) likely at isolated places over Rajasthan.

♦ **Heavy rainfall** likely at isolated places over Uttarakhand, Kerala & Mahe and Coastal & South Interior Karnataka.

07 May (Day 4): ♦ **Thunderstorm with lightning & gusty wind** (speed reaching 40-50 kmph) likely at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim and Odisha; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Vidarbha, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with **lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka and Lakshadweep.

♦ **Thunderstorm/Duststorm** (speed reaching 40-50 kmph) likely at isolated places over Rajasthan.

♦ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya and Kerala & Mahe.

* 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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08 May (Day 5): ♦ **Thunderstorm with lightning & gusty wind** (speed reaching 40-50 kmph) likely at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim and Odisha; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Vidarbha, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with **lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka and Lakshadweep.

♦ **Thunderstorm/Duststorm** (speed reaching 40-50 kmph) likely at isolated places over Rajasthan.

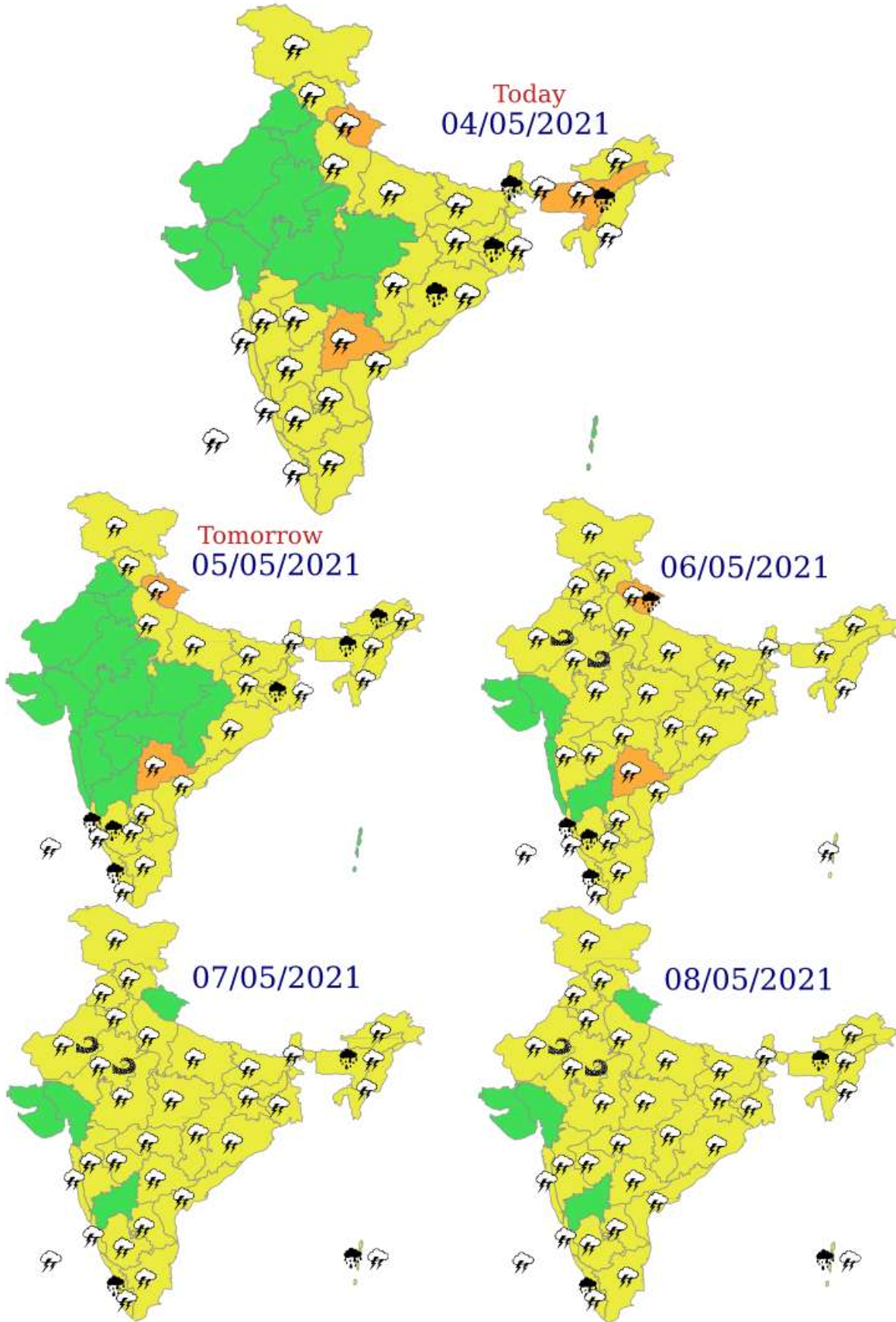
♦ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya and Kerala & Mahe.

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Impact expected and action suggested due to Thunderstorm with lightning/hail/gusty winds/ squall over Uttarakhand and Telangana during 04th-06th; Assam & Meghalaya on 04th May, 2021.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.
- Farming operations may be suspended during the event.

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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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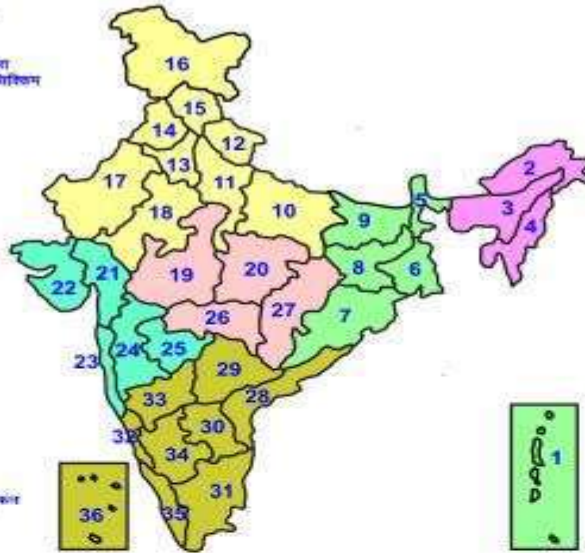
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप-हिमालय पश्चिम बंगाल और सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखण्ड
- 13 हरियाणा, दिल्ली एवं चंडीगढ़
- 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 कर्नाटक
- 23 कर्नाटक
- 24 मध्य प्रदेश
- 25 मध्य प्रदेश
- 26 मध्य प्रदेश
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- 35 मध्य प्रदेश
- 36 मध्य प्रदेश



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, Ctd & 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. Tamil Nadu, 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)

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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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