



All India Impact Based Weather Warning Bulletin

Tuesday 18 May 2021

Time of Issue: 0800 hours IST

(MORNING)

18 May (Day 1): ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand; **with lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over Haryana, Chandigarh & Delhi and West Madhya Pradesh; **with lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Jharkhand and Assam & Meghalaya and Kerala & Mahe and **with lightning** at isolated places over Himachal Pradesh, Punjab, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Thunderstorm/Duststorm/Squall** (speed reaching 50-60 kmph) very likely at isolated places over Rajasthan.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places very likely over south Rajasthan; **Heavy to Very Heavy Rainfall** at a few places over Gujarat Region and at isolated places over Assam & Meghalaya and Saurashtra & Kutch and **Heavy Rainfall** at isolated places over Uttarakhand, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, north Konkan, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Gale Wind** (speed reaching 80-90 kmph gusting to 100 kmph) very likely over Dadra & Nagar Haveli, Daman, Valsad, Navsari, Surat, Surendranagar districts till 18th morning. **Squally wind** (speed reaching 45-55 kmph gusting to 65 kmph) is likely to prevail over South Rajasthan from the forenoon of 18th till 19th morning.

♦ **Sea conditions** will be phenomenal over eastcentral & adjoining northeast Arabian Sea till 18th morning and improve gradually thereafter; phenomenal along & off south Gujarat, Daman, Diu, Dadra & Nagar Haveli coasts till 18th morning and gradually improve thereafter. Fishermen are advised not to venture into these areas.

19 May (Day 2): ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 40-50 kmph) very likely at isolated places over Uttarakhand; **with lightning, hail & gusty wind** (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; **with lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi and Rajasthan; **with lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Uttar Pradesh, Bihar, Jharkhand, Telangana and Kerala & Mahe and **with lightning** at isolated places over West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Arunachal Pradesh and Assam & Meghalaya and **Heavy Rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally wind** (speed reaching 45-55 kmph gusting to 65 kmph) is likely to prevail over South Rajasthan till 19th morning.

20 May (Day 3): ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh; **with lightning & gusty wind** (speed reaching 30-40 kmph) likely at a few places over Uttarakhand and at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Telangana and Kerala & Mahe and **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy Rainfall** at a few places with **Very Heavy Rainfall** at isolated places likely over Uttarakhand; **Heavy Rainfall to Very Heavy Rainfall** at isolated places over Arunachal Pradesh; **Heavy Rainfall** at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

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

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21 May (Day 4): ♦Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Kerala & Mahe and **with lightning** likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy Rainfall** likely at isolated places over Tamilnadu, Puducherry & Karaikal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

22 May (Day 5): ♦Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Kerala & Mahe and **with lightning** likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

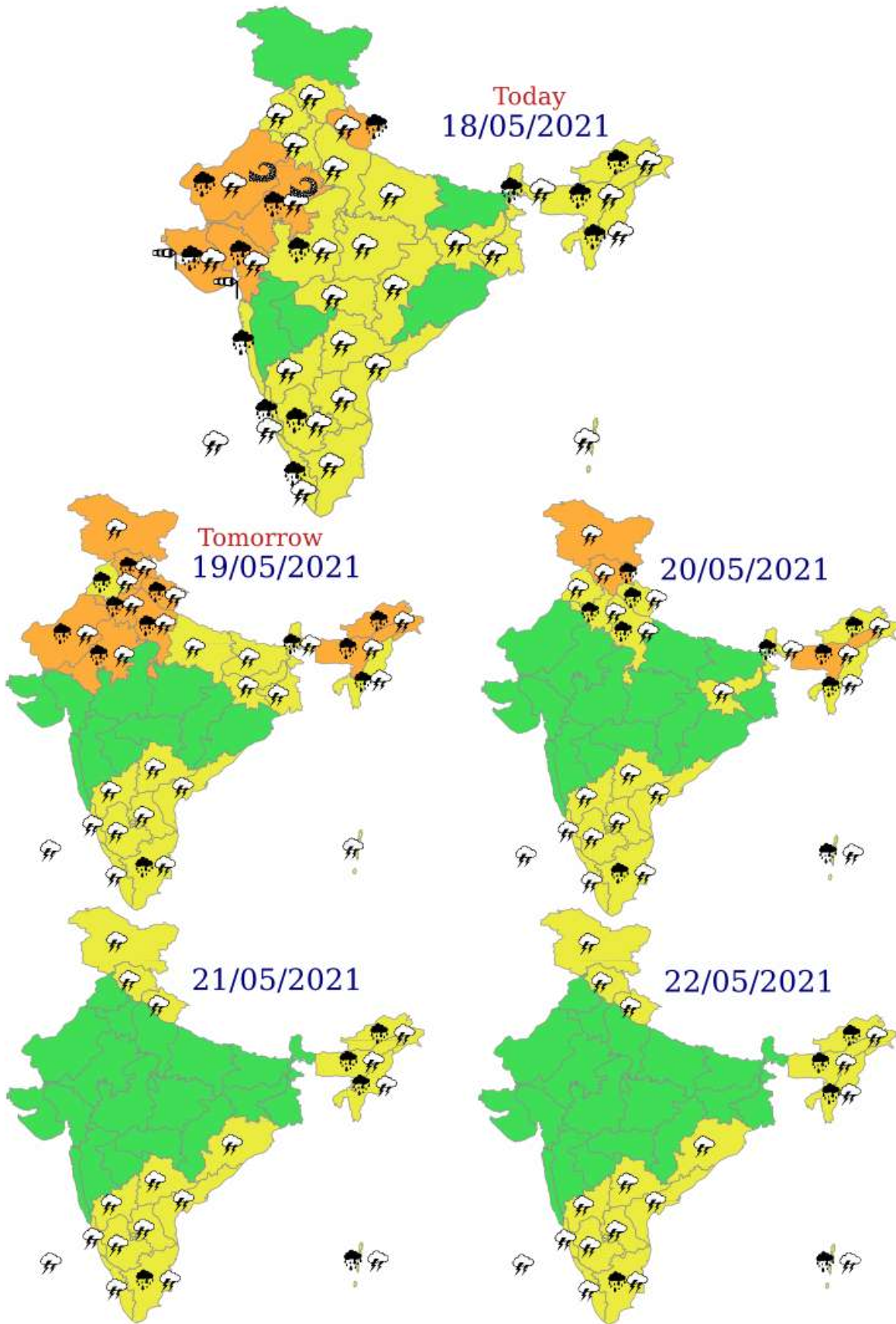
♦ **Heavy Rainfall** likely at isolated places over Tamilnadu, Puducherry & Karaikal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

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Impact based warning & Action suggested for areas likely to be affected

◆ Heavy falls at isolated places very likely over North Konkan on 18th May; heavy to very heavy falls at a few places with extremely heavy falls at isolated places very likely over southern districts of Saurashtra, Diu and Gujarat region on 17th & 18th May; heavy to very heavy falls at isolated places over Kutch on 17th & 18th; heavy to very heavy falls & extremely heavy falls at isolated places over south Rajasthan on 18th & heavy to very heavy falls at isolated places over Rajasthan on 19th May; heavy to very heavy rainfall over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya on 19th May and over Uttarakhand on 19th & 20th May.

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 Mudslides(for plain areas) and Landslides (for hill and vulnerable areas)
- 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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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 *	<p>Heavy: 64.5 to 115.5 mm/cm *</p> <p>Very Heavy: 115.6 to 204.4 mm/cm*</p> <p>Extremely Heavy: > 204.4 mm/cm *</p>
 Heat Wave	<p>When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions</p> <p>(a) Based on Departure from normal</p> <p>Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C.</p> <p>Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$</p> <p>(b). Based on Actual maximum temperature</p> <p>Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.</p> <p>Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$</p> <p>(c). Criteria for heat wave for coastal stations</p> <p>When maximum temperature departure is $>4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$</p>
 Warm Night	<p>When maximum temperature remains 40°C</p> <p>Warm Night: When minimum temperature departure 4.5°C to 6.4°C.</p> <p>Severe Warm Night: When minimum temperature departure $>6.4^{\circ}\text{C}$.</p>
 Cold Wave	<p>When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.</p> <p>(a). Based on departure</p> <p>Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Wave: Minimum Temperature Departure from normal $\geq -6.5^{\circ}\text{C}$</p> <p>(b) Based on actual Minimum Temperature (for Plains only)</p> <p>Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$</p> <p>Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$</p> <p>(c) For Coastal Stations</p> <p>When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ or actual Minimum Temperature is $\leq 15^{\circ}\text{C}$</p>
 Cold Day	<p>When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions</p> <p>Based on departure</p> <p>Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$</p>
 Fog	<p>Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$</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 < 50 metres</p>
 Thunderstorm	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
 Dust/Sand Storm	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
 Frost	<p>Ice deposits on ground</p> <p>Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)</p>
 Squall	<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 >87 kmph</p>
 Sea State	<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) & Wave height 2.5-6 metre</p> <p>High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre</p> <p>Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre</p>
 Cyclone	<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 >220 kmph (>119 knots)</p>

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LEGENDS

1. अंडमान और निकोबार द्वीप समूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिज़ोरम और त्रिपुरा
5. उप-हिमालय, पश्चिम बंगाल, ऐंग्म, सिक्किम
6. पश्चिम बंगाल
7. ओरिसा
8. झारखण्ड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखण्ड
13. हरियाणा, चंडीदाह और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. उत्तर राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कर्नाटक और गोवा
24. मध्य महाराष्ट्र
25. महाराष्ट्र
26. विहार
27. चिहामण्णर
28. Coastal Andhra Pradesh & Yanam
29. तेलंगाना
30. केरल
31. तमिलनाडु, पुदुचेरी, पुदुचेरी और कोरकोल
32. उत्तर कर्नाटक
33. दक्षिण कर्नाटक
34. उत्तर कर्नाटक
35. केरल
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. Uttarakhnad
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. Vidharbha
27. Chhatisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Kerala
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)

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Heavy Rain

Strong Winds

Frost

Heavy Snow

Visibility

Cold Wave

Thunderstorm

Cyclone

Heat Wave

Dust Storm

Squall/ Hail

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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