



All India Impact Based Weather Warning Bulletin

Sunday 26 September 2021
Time of Issue: 2045 hours IST

(NIGHT)

26 September (Day 1): ♦ Heavy to very heavy rainfall **with** extremely heavy falls very likely at isolated places over south Odisha and north Coastal Andhra Pradesh & Yanam; **Heavy to very heavy rainfall** at isolated places over south Chhattisgarh and Telangana and **heavy rainfall** at isolated places over Uttarkhand, East Rajasthan, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Andaman & Nicobar Islands, Gujarat Region, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalseema, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

♦ **Thunderstorm accompanied with lightning & Gusty Winds** (speed 30-40 kmph) very likely at isolated places over Gangetic West Bengal and Odisha and with **lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally Wind** (wind speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest, Westcentral & Northeast, Southeast Arabian Sea along & off Kerala coast and Lakshadweep area, Northeast & Eastcentral Bay of Bengal, Southwest and adjoining Southeast Bay, Gulf of Mannar & Comorin area.

♦ **Gale wind** (speed 75-85 kmph gusting to 95 kmph) very likely to prevail over Northwest & adjoining Westcentral Bay of Bengal till late night and along & off north Coastal Andhra Pradesh and south Odisha coasts till midnight. Sea condition will be high over Northwest and adjoining Westcentral Bay of Bengal, along and off Odisha, West Bengal and North Andhra Pradesh coasts till late night/early morning of tomorrow i.e. 27th September and will be rough to very rough over Eastcentral adjoining northeast Bay of Bengal. **Fishermen are advised not to venture into these areas.**

27 September (Day 2): ♦ Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over south Chhattisgarh, Vidarbha and Telangana; **Heavy to very heavy rainfall** at isolated places over Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal; **heavy rainfall** at isolated places over East Rajasthan, Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar islands, Gujarat State, Coastal Andhra Pradesh & Yanam, Rayalseema, Coastal & North Interior Karnataka and Lakshadweep.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph to gusting 60 kmph) likely over the Southwest & Westcentral Arabian Sea. **Strong wind** (speed 40-50 kmph gusting to 60 kmph) likely over Southeast Arabian Sea along & off Kerala coast, Lakshadweep area Gulf of Mannar & Comorin area. Fishermen are advised not to venture into these areas.

♦ **Strong wind** (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Southeast Bay of Bengal, (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Northwest & adjoining Westcentral Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal 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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28 September (Day 3): ♦ Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places Gujarat Region, Madhya Maharashtra and Konkan & Goa; **Heavy to very heavy rainfall** at isolated places over Marathwada and Saurashtra & Kutch and **heavy rainfall** at isolated places over Uttarkhand, West Madhya Pradesh, Vidarbha, Gangetic West Bengal, Andaman & Nicobar islands, Odisha, Telangana, Coastal & North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty Winds** (speed 30-40 kmph) very likely at isolated places over Gangetic West Bengal and with **lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 45-55 kmph to gusting 65 kmph) very likely northeast and adjoining eastcentral Bay of Bengal. **Squally weather** (wind speed 40-50 kmph to gusting 60 kmph) likely over the Southwest, Westcentral Arabian Sea, Northeast Arabian Sea along & off Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these areas.

29 September (Day 4): **Heavy to very heavy rainfall** likely at isolated places over Gujarat State; **Heavy rainfall** at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Madhya Maharashtra.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gujarat State, Madhya Maharashtra and Marathwada.

♦ **Squally weather** (wind speed 45-55 kmph to gusting 65 kmph) likely northeast and adjoining eastcentral Bay of Bengal. **Squally weather** (wind speed 40-50 kmph to gusting 60 kmph) likely over the Southwest, Westcentral Arabian Sea, Northeast Arabian Sea along & off Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these areas.

30 September (Day 5): **Heavy rainfall** likely at isolated places over Jharkhand, Odisha and Gujarat State.

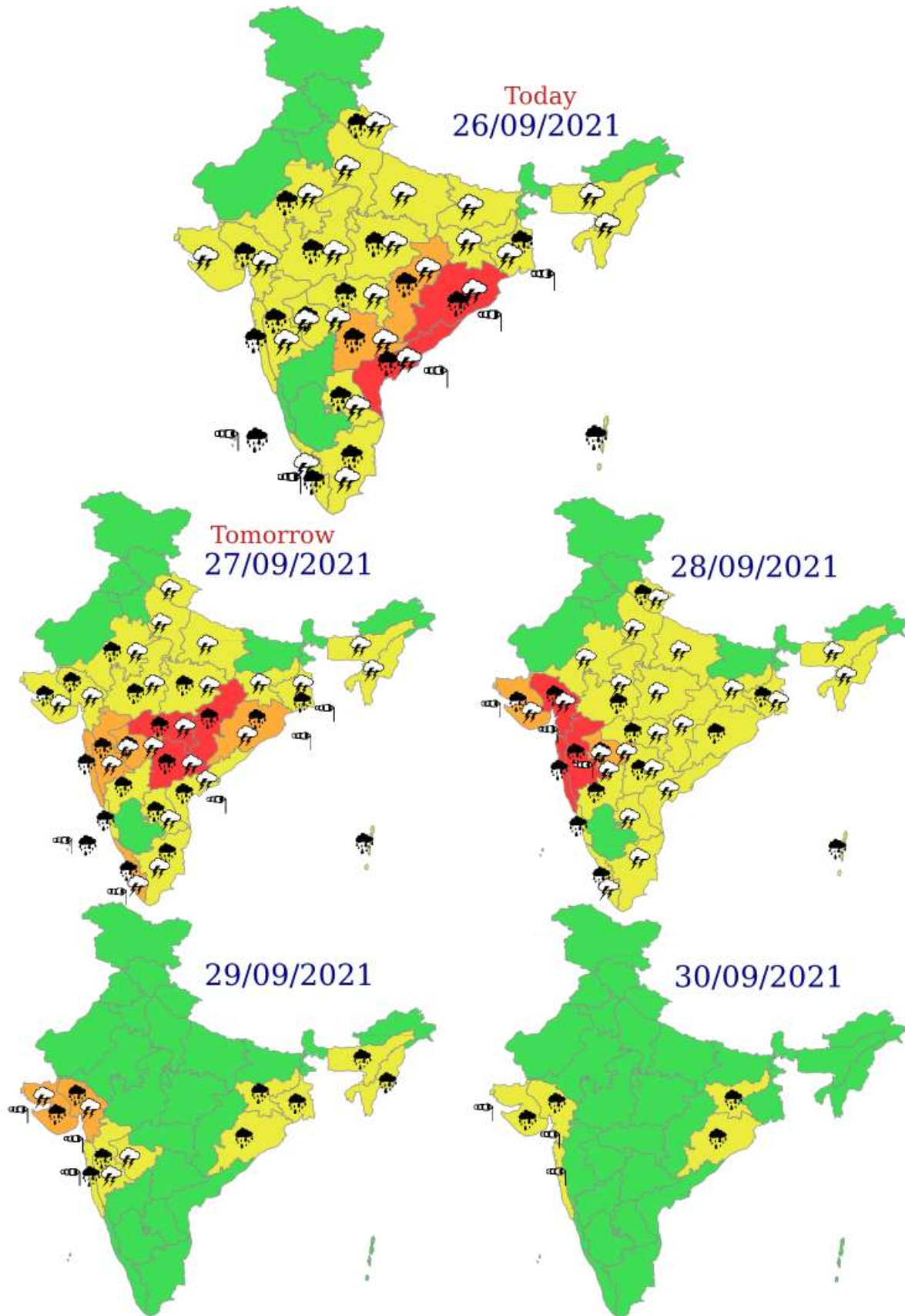
♦ **Squally weather** (wind speed 45-55 kmph to gusting 65 kmph) likely northeast and adjoining eastcentral Bay of Bengal. **Squally weather** (wind speed 40-50 kmph to gusting 60 kmph) likely over the Southwest, Westcentral Arabian Sea, Northeast Arabian Sea along & off Gujarat-north Maharashtra coasts. Fishermen are advised not to venture into these areas.

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EXPECTED IMPACT & ACTION SUGGESTED due to **Very Heavy/Extremely Rainfall** over north coastal Andhra Pradesh on 26th; south Odisha, south Chhattisgarh, Telangana on 26th & 27th; over Vidarbha on 27th; over Konkan & Goa, Madhya Maharashtra Marathwada on 27th & 28th ; over Gujarat State on 28th & 29th ; over Kerala and Tamilnadu on 27th September, 2021.

A. Impact Expected

- Localized Flooding of roads, inundation and 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
- 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 *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *



Heat Wave

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 $\geq 37^{\circ}\text{C}$



Warm Night

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 $> 6.4^{\circ}\text{C}$.



Cold Wave

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 $\leq 15^{\circ}\text{C}$



Cold Day

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 $\leq -6.5^{\circ}\text{C}$



Fog

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



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

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



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 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

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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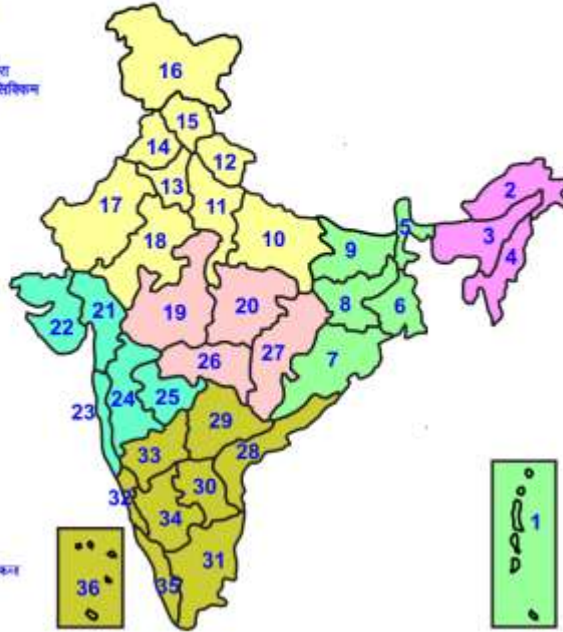
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल 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 जम्मू एवं कश्मीर एवं लद्दाख
- 19 पश्चिम राजस्थान
- 20 पूर्वी राजस्थान
- 21 पश्चिम मध्य प्रदेश
- 22 पूर्वी मध्य प्रदेश
- 23 गुजरात
- 24 मध्य प्रदेश
- 25 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, 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 & Yaram
29. Telangana
30. Rayalaseema
31. Tamilnada, 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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