



All India Impact Based Weather Warning Bulletin

Saturday 27 November 2021
Time of Issue: 2015 hours IST

(NIGHT)

27 November (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over south Coastal Andhra Pradesh, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and **Heavy rainfall** at isolated places over Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Comorin area, Gulf of Mannar, along & off south Tamilnadu coast and adjoining southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

28 November (Day 2): ♦ **Heavy to very heavy rainfall** very likely at isolated places over south Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **Heavy rainfall** at isolated places over South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Comorin area, Gulf of Mannar, along & off south Tamilnadu coast and adjoining southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

29 November (Day 3): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and **Heavy rainfall** at isolated places over south Coastal Andhra Pradesh, Rayalaseema and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Madhya Maharashtra, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) very likely over South Andaman Sea & neighbourhood. Fishermen are advised not to venture into these areas.

♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Eastcentral Arabian Sea and along & off Karnataka-Goa coasts. Fishermen are advised not to venture into these areas.

30 November (Day 4): ♦ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gujarat state, Madhya Maharashtra, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) likely over South Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) likely over Eastcentral & adjoining Northeast Arabian Sea and along & off Karnataka-Maharashtra 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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01 December (Day 5): ♦ **Heavy to very heavy rainfall** likely at isolated places over Andaman & Nicobar Islands and **heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning & gusty wind (40-50kmph gusting to 60kmph)** likely at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Gujarat state, Madhya Maharashtra, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast and adjoining Eastcentral Bay of Bengal & Andaman Sea. Fishermen are advised not to venture into these areas.

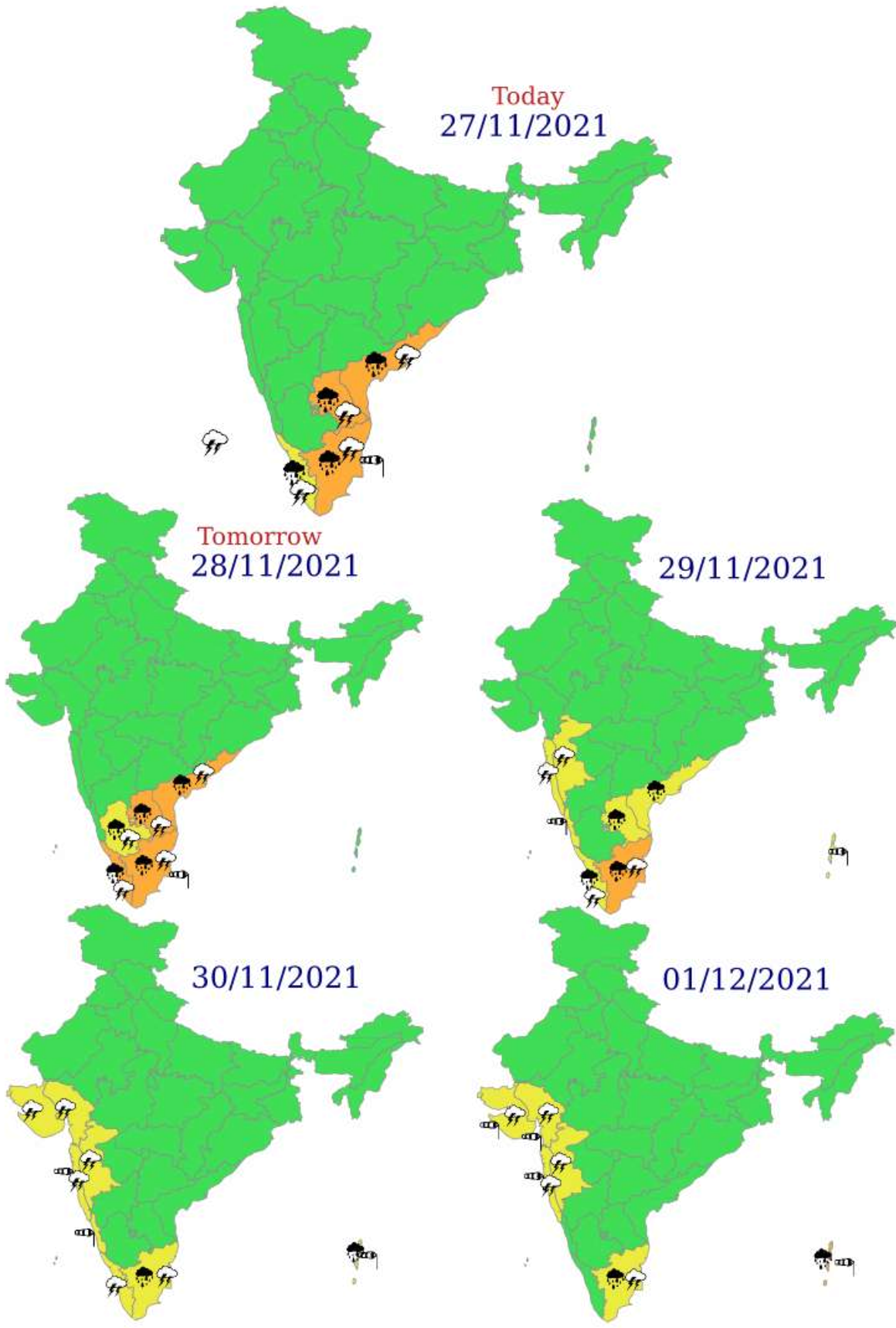
♦ **Squally winds** (speed reaching 40-50 kmph gusting to 60 kmph) likely over Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat-north Maharashtra coasts. Fishermen are advised not to venture into these areas.

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EXPECTED IMPACT & ACTION SUGGESTED due to Isolated Very Heavy Rainfall over Tamilnadu, Puducherry & Karaikal during 27th - 29th November and over south Coastal Andhra Pradesh and Rayalaseema on 27th & 28th November and over Kerala & Mahe on 28th November, 2021 and over Andaman & Nicobar Islands on 01st December , 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 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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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



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 Strom: Wind speed > 220 kmph (> 119 knots)

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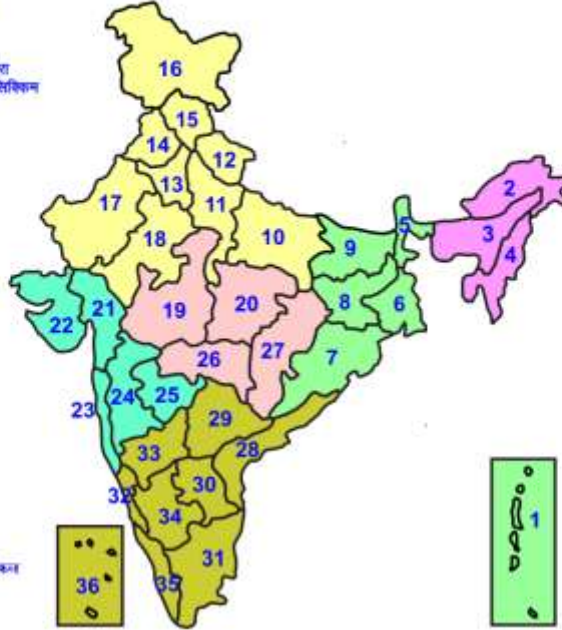
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LEGENDS

- 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 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कोकण एवं कर्नाटक
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यंम
- 29 तेलंगना
- 30 राजस्थान
- 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 & Yarnam
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)

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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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