

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Wednesday, February 5, 2025 Time of Issue: 1315 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and warning:

- A Western Disturbance as a trough in lower & middle tropospheric levels roughly along Long. 70°E to the north of Lat. 25°. Under its influence,
 - ✓ Isolated to Scattered light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Western Himalayan Region on 05th February, 2025.
- Two cyclonic circulations lie over (a) north Bangladesh and (b) northeast Assam in lower tropospheric levels.
 Under their influence,
 - ✓ Scattered to Fairly Widespread light to moderate rainfall accompanied with thunderstorm & lightning likely over Arunachal Pradesh and northeast Assam on 06th & 07th February with isolated **heavy rainfall** likely over Arunachal Pradesh on 07th February.
- Another fresh Western Disturbance is likely to affect Western Himalayan Region from 08th February, 2025. Under its influence,
 - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region during 08th-11th February, 2025.

Forecast of temperature:

- Gradual fall in minimum temperatures by 2-3°C likely over Northwest and Central India during next 2-3 days and no significant change thereafter.
- ✤ Gradual rise in minimum temperatures by 2-3°C likely over East India during next 24 hours and fall by 3-4°C likely thereafter.
- No significant change in minimum temperatures likely over Maharashtra during next 24 hours and Gradual rise by 2-3°C thereafter.
- ✤ Gradual rise in minimum temperatures by 2-3°C likely over Gujarat state during next 3 days and no significant change thereafter
- Gradual rise by 2°C in maximum temperatures likely over West India during next 5 days.
- Maximum temperatures are likely to be above normal by 3-5°C over Central, East & South India during next 4-5 days.
- **Dense Fog Warnings: Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of West Bengal & Sikkim on 05th, Odisha and Himachal Pradesh during 05th-07th February.
- **Cold Wave Warnings: Cold Wave conditions** very likely in isolated pockets of Himachal Pradesh and north Rajasthan on 05th & 06th February.
- Minimum temperatures are in the range of 5-10°C over many parts of Western Himalayan region and plains of Northwest India; 11-20°C over many parts of Central, East & West India. Today, the lowest minimum temperature of 4.2°C is reported at Bathinda & Faridkot (Punjab) over the plains of the country.
- During the past 24 hours, minimum temperatures has fallen by 1-4°C over some parts of Northwest, Central & West India and risen by 1-4° in some parts of East & South Peninsular; at isolated places over Northeast India & Andaman & Nicobar Islands.
- Maximum temperatures are in the range of 34-38°C over many parts of southeast Madhya Pradesh, Chhattisgarh, Vidarbha, Marathawada, Telangana, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Western Odisha. Yesterday, the highest maximum temperature of 38.4°C was reported at Nandigama (Coastal Andhra Pradesh) over the plains of the country.





Main Weather Observations:

- Rainfall/Snowfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Uttarakhand, West Uttar Pradesh, Delhi, East Rajasthan.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Jammu-Kashmir: Batote-2, Bhaderwah-1; Uttarakhand: Ukhimath-1.
- Fog reported (upto 0830 hours IST of today): Dense to very dense fog conditions (visibility < 50 m) reported in isolated pockets of Meghalaya and dense fog (visibility 50-199 m) reported in some pockets of coastal Odisha.
- ❖ Visibility reported (upto 0830 hours IST of today) (≤200 m): Meghalaya: Barapani -25; Odisha: Bhubaneswar -150, Balasore -150.
- Hailstorm reported at isolated places over Himachal Pradesh.
- Minimum Temperature Departures (as on 05-02-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over East Uttar Pradesh, East Madhya Pradesh, Odisha; at a few places over Chhattisgarh, Bihar; at isolated places over Madhya Maharashtra, Vidarbha, West Madhya Pradesh, Jharkhand; above normal (1.6°C to 3.0°C) at most places over Marathwada; at many places over Uttarakhand, West Uttar Pradesh; at a few places over Assam & Meghalaya, Arunachal Pradesh, Konkan & Goa, West Bengal & Sikkim; at isolated places over Himachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana. These are below normal (-1.6°C to -3.0°C) at isolated places over Rajasthan, Gujarat Region, Rayalaseema, South Interior Karnataka and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 4.2°C is reported at Bathinda & Faridkot (Punjab) over the plains of the country.
- ÷ Maximum Temperature Departures (as on 04-02-2025): Maximum temperatures were markedly above normal (5.1°C or above) at many places over Chhattisgarh and East Madhya Pradesh; at a few places over Vidarbha; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, Telangana; appreciably above normal (3.1°C to **5.0°C)** at most places over Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam; at many places over East Uttar Pradesh, North Interior Karnataka, Marathwada; at a few places over Bihar; at isolated places over Rayalaseema, West Uttar Pradesh, Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Saurashtra & Kutch, Madhya Maharashtra, South Interior Karnataka; at many places over Gujarat Region, Sub-Himalayan West Bengal & Sikkim, East Rajasthan, West Uttar Pradesh; at a few places over Tamil Nadu, Puducherry & Karaikal, Assam & Meghalaya, Arunachal Pradesh, Konkan & Goa, Coastal Karnataka; at isolated places over Kerala & Mahe, West Rajasthan, Haryana-Chandigarh-Delhi. These were below normal (-1.6°C to -3.0°C) at isolated places over Himachal Pradesh and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 38.4°C was reported at Nandigama (Coastal Andhra Pradesh) over the plains of the country.





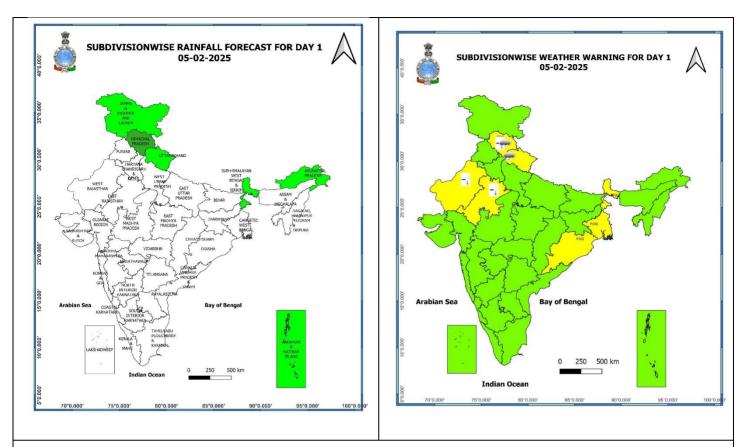
Meteorological Analysis (Based on 0830 hours IST)

- The Western Disturbance now seen as a trough in lower & middle tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 70°E to the north of Lat. 25°N.
- ✤ A cyclonic circulation lies over north Bangladesh & neighbourhood at 1.5 km above mean sea level.
- ✤ A cyclonic circulation lies over northeast Assam & neighbourhood at 3.1 km above mean sea level.
- Subtropical westerly Jet Stream with core winds of the order upto 150 knots at 12.6 km above mean sea level is prevailing over Northwest India.
- A fresh Western Disturbance is likely to affect western Himalayan region from 08th February, 2025.
- The induced cyclonic circulation over northwest Rajasthan & adjoining central Pakistan at 1.5 km above mean sea level has become less marked.
- The trough from the above cyclonic circulation over northwest Rajasthan & adjoining central Pakistan to Northeast Arabian Sea across Gujarat at 1.5 km above mean sea level has become less marked.
- The cyclonic circulation over South Rajasthan & neighbourhood at 0.9 km above mean sea level has become less marked.
- The cyclonic circulation over East Bangladesh extending upto 1.5 km above mean sea level has become less marked.



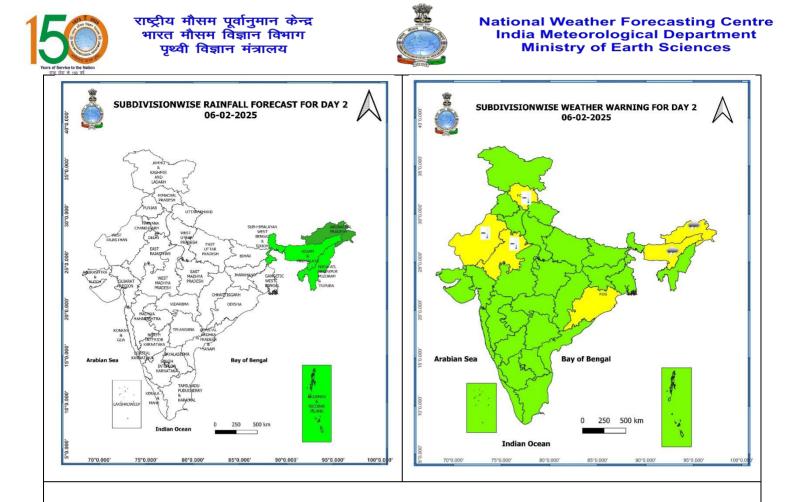


Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 11th February, 2025)



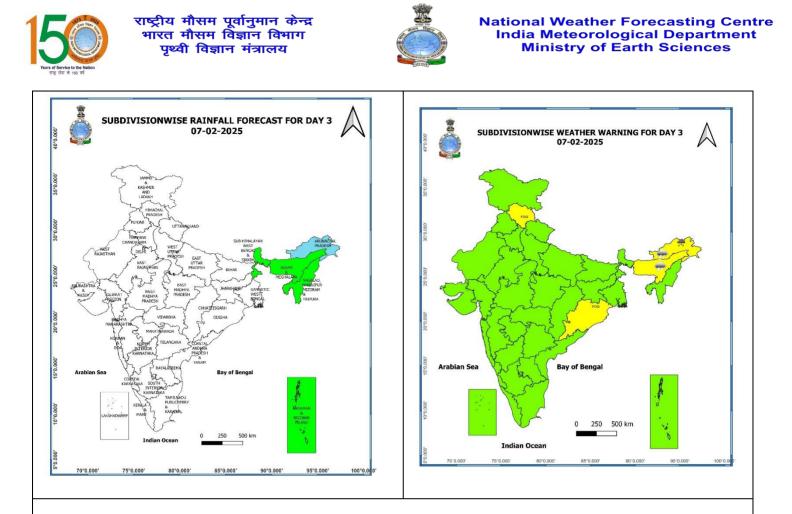
05th February (Day 1):

- Dense fog conditions very likely in isolated pockets of Himachal Pradesh, West Bengal & Sikkim and Odisha.
- **Cold Wave conditions** very likely in isolated pockets of Himachal Pradesh and Rajasthan.
- Thunderstorm accompanied with lightning very likely at isolated places over Himachal Pradesh and Uttarakhand.



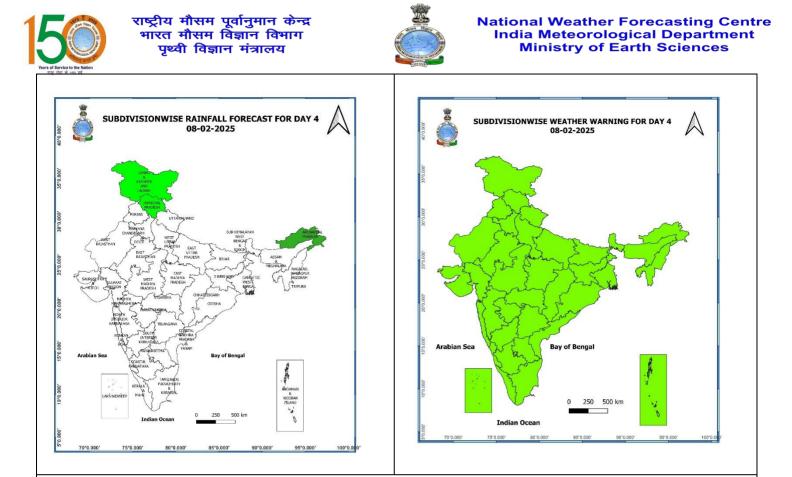
06th February (Day 2):

- * Dense fog conditions very likely in isolated pockets of Himachal Pradesh and Odisha.
- **Cold Wave conditions** very likely in isolated pockets of Himachal Pradesh and Rajasthan.
- Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.



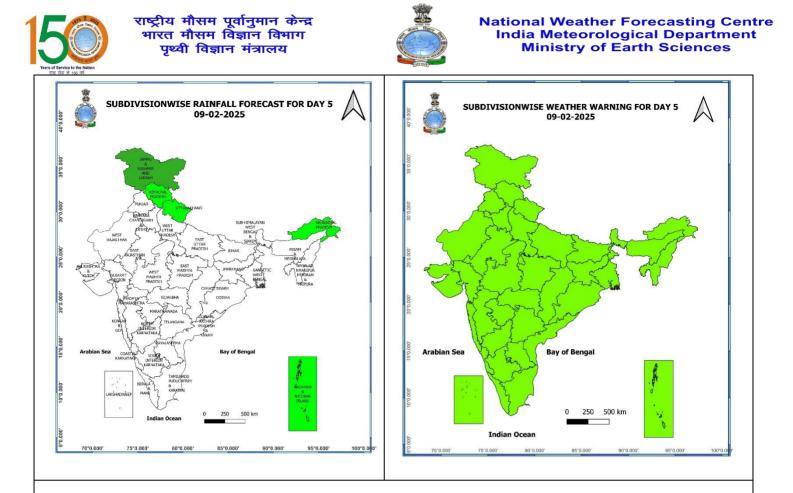
07th February (Day 3):

- ◆ Heavy rainfall (≥ 7cm) very likely at isolated places over Arunachal Pradesh.
- Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- Dense fog conditions very likely in isolated pockets of Himachal Pradesh and Odisha.



08th February (Day 4):

* No Weather Warning.



09th February (Day 5):

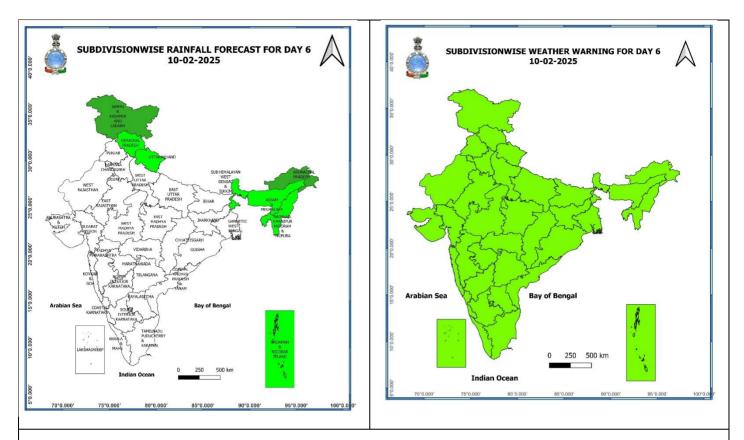
* No Weather Warning.



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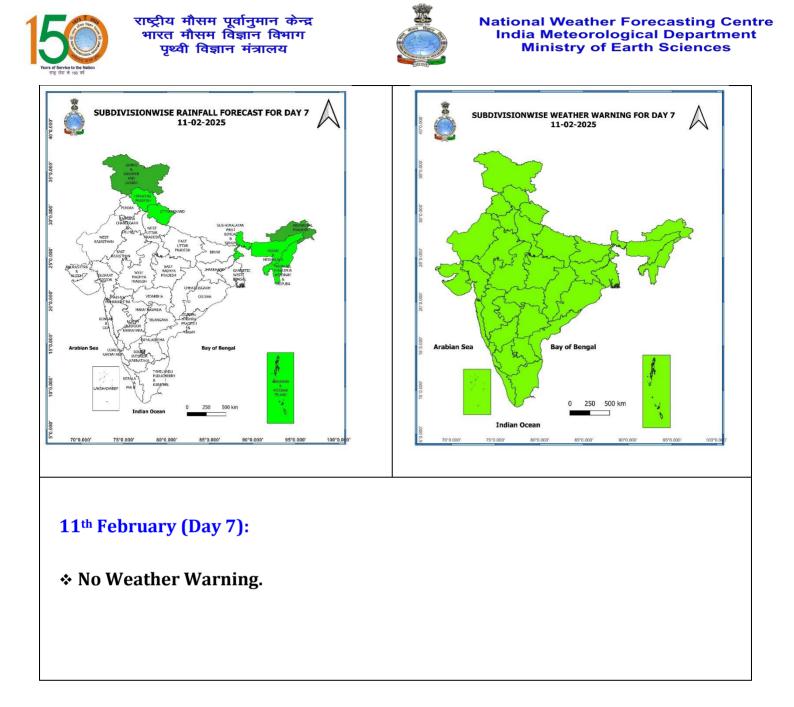


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10th February (Day 6):

* No Weather Warning.



Weather Outlook for subsequent 3 days (During 12th February- 14th February, 2025)

- Scattered to fairly widespread rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- * Isolated to scattered rainfall likely over Uttarakhand, Arunachal Pradesh and Nicobar Islands.

Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





Fig. 1: Maximum Temperatures

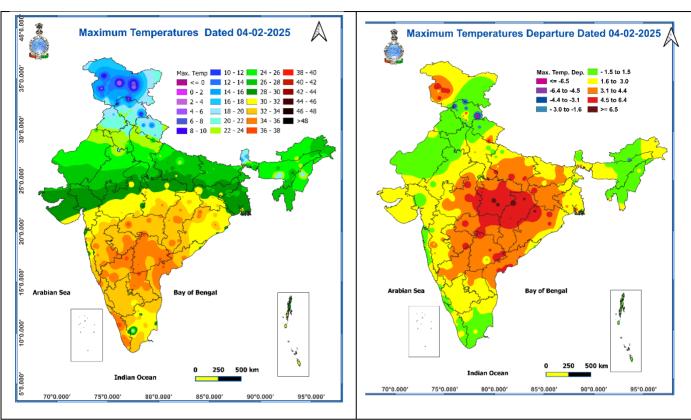
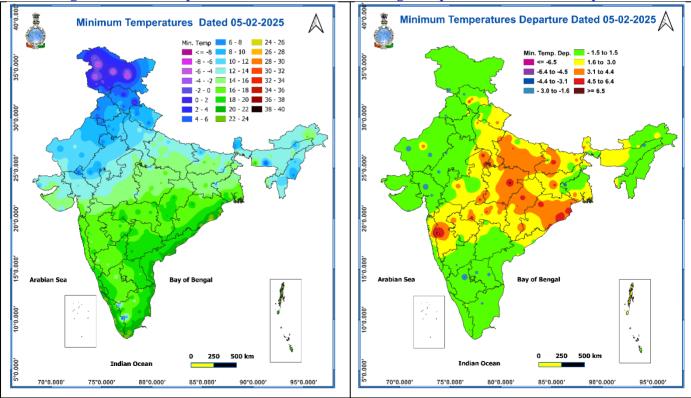


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



* Red colour warning does not mean "Red Alert", Red colour 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. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)

Fig. 2: Departure of Maximum Temperatures





Impact expected due to dense fog in the night /morning hours over Northwest, East and Northeast India:

- Transport and Aviation:
- May affect some airports, highways and railway routes in the areas of met- sub-division.
 Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.
- Power Sector:
- Chances of Tripping of Power lines in the very dense fog routes.
 - ✤ Human Health:
 - Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
 - Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
 - Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

- Transport and Aviation:
- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.
- Power Sector:
- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

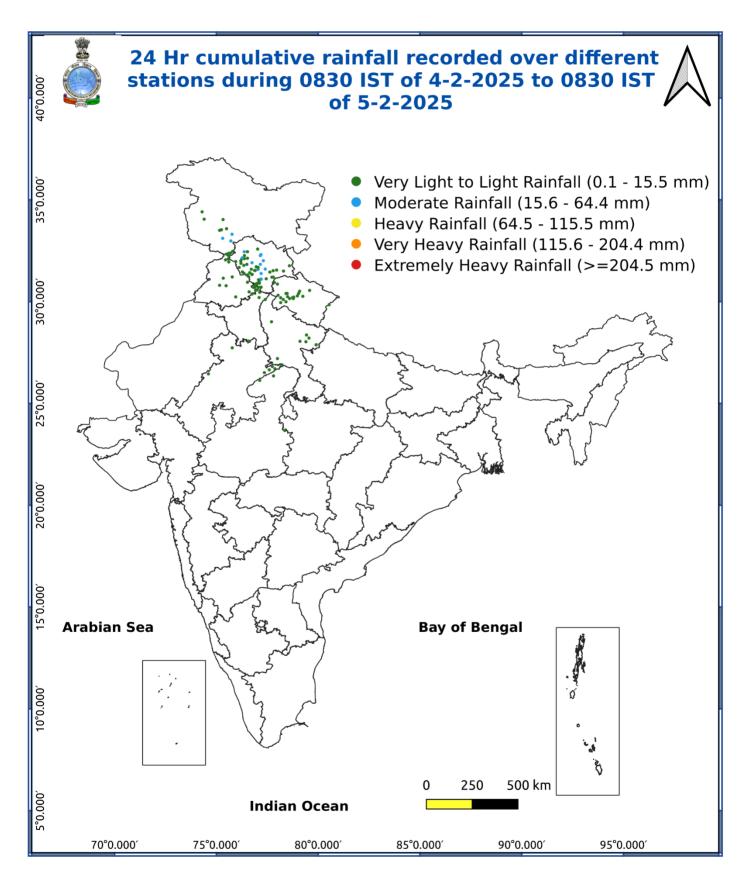


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Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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LEGENDS

1. अंडमान और निकोबार द्वीपसमूह	1. Andaman & Nicobar Islands
2. अरुणाचल प्रदेश	2. Arunachal Pradesh
3. असम और मेघालय	3. Assam & Meghalaya
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा	4. Nagaland, Manipur, Mizoram & Tripura
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम	5. Sub-Himalayan West Bengal & Sikkim
6. गंगीय पश्चिम बंगाल	6. Gangetic West Bengal
7. ओडिशा	7. Odisha
8. झारखंड	8. Jharkhand
9. बिहार	9. Bihar
10. पूर्वी उत्तर प्रदेश	10. East Uttar Pradesh
11. पश्चिम उत्तर प्रदेश	11. West Uttar Pradesh
12. उत्तराखंड	12. Uttarakhand
13. हरियाणा, चंडीगढ़ और दिल्ली 17 20211	13. Haryana, Chandigarh & Delhi
14. पंजाब	3 X 14. Punjab
15. हिमाचल प्रदेश	15. Himachal Pradesh
16. जम्मू और कश्मीर और लद्दाख 🔨 19 रे 20 🔨 8 🗸 6 रि	16. Jammu & Kashmir and Ladakh
17. पश्चिम राजस्थान 22 % के टोलर कि	17. West Rajasthan
18. पूर्वी राजस्थान	18. East Rajasthan
19. पश्चिम मध्य प्रदेश 23 24 25	19. West Madhya Pradesh
20. पूर्वी मध्य प्रदेश	20. East Madhya Pradesh
21. गुजरात	21. Gujarat
22. सौराष्ट्र 230	22. Saurashtra
23. कोंकण और गोवा	23. Konkan & Goa
24. मध्य महाराष्ट्र .	24. Madhya Maharashtra
25. मराठवाड़ा 31	^o 1 25. Marathwada
26. विदर्भ 36	26. Vidarbha
27. छत्तीसगढ़	27. Chhattisgarh
28. तटीय आंध्र प्रदेश और यनम	28. Coastal Andhra Pradesh & Yanam
29. तेलंगाना	29. Telangana
30. रायलसीमा	30. Rayalaseema
31. तमिलनाडु, पुडुचेरी और कराईकल	31. Tamilnadu, Puducherry & Karaikal
32. तटीय कर्नाटक	32. Coastal Karnataka
33. आतंरिक उत्तरी कर्नाटक	33. North Interior Karnataka
34. आतंरिक दक्षिणी कर्नाटक	34. South Interior Karnataka
35. केरल और माहे	35. Kerala & Mahe
36. लक्षद्वीप	

SPATIAL DISTRIBUTION (% of Stations reporting)

Category	% Stations	Cate	gory	
Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)		
rly Widespread (FWS/Many Place	es) 1-25	Isolated (ISOL)		
Heavy Snow	- Cold Wa	COLOUR CO	DED WARNING	
- incury onon	1		No Warning (No Action)	
🚊 Dust Storm	은 Dust Storm - Cold Day		Watch (Be Aware)	
in J+ Heat Wave	Alert (Be Prepared To Take Action)			
10	+ Warm Night		Warning (Take Action)	
Let Day		Probabilistic Forecast		
thing	IT HOLDAY		Probability of Occurrence (% < 25	
🚹 Hot & Humid		Likely	25 - 50	
	A / in al a	Very Likely Most Likely	50 - 75 > 75	
	Widespread (WS/Most Places) rly Widespread (FWS/Many Place Heavy Snow Solution ain in in in in in in in in in	Widespread (WS/Most Places) 26-50 rly Widespread (FWS/Many Places) 1-25 Heavy Snow - Heavy Snow - Dust Storm - Image: Dust Store - Ima	Widespread (WS/Most Places) 26-50 Scattered (SCT rly Widespread (FWS/Many Places) 1-25 Isolate Image: Heavy Snow - Cold Wave COLOUR CO Image: No Warni Image: Storm - Cold Day No Warni Image: No Warni Image: Storm - Image: Storm - Image: Storm No Warni Image: I	





+	Heavy: 64.5 to 115.5 mm/cm *
ain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches \geq 40° C for plains and \geq 30° 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 ≥6.5° C
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature ≥47°C When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°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 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cold Wave	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C (b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cold Day	When minimum temperature of a station $\le 10^\circ$ C for plains and $\le 0^\circ$ 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 ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres
i og	Very Dense Fog: when the visibility < 50 metres
understorm	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 ≤4°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
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Cyclone	Severe Cyclonic Storm: Wind speed 62-67 Kingh (34-47 Kinds) 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)
	Cuper Cyclone Stront. Wind Speed 220 Milph (2113 MID(S)