

National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Saturday, January 25, 2025 Time of Issue: 1330 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and warning:

- ❖ A **cyclonic circulation** lies over northeast Assam in lower tropospheric levels. Under its influence.
 - ✓ Light to moderate rain at some places at isolated places likely over Arunachal Pradesh and northeast Assam on 25th January.
- ❖ A **Western Disturbance** is likely to affect Western Himalayan Region from 29th January, 2025. Under its influence, isolated to scattered rainfall/snowfall activity likely over Western Himalayan region on 29th & 30th January.

Temperature, Cold Wave, Cold Day and Fog Forecast: Temperature Conditions during past 24 hours till 0830 hours IST of today:

- ❖ Minimum temperatures are below 0°C over isolated places of Jammu, Kashmir & Ladakh; 1-5°C over some parts of Himachal Pradesh & Uttarakhand; 5-10°C over many parts of plains of Northwest India; 10-18°C in many parts of Central, West and East India. Today, the lowest minimum temperature of 3.5°C is reported at Sikar (East Rajasthan) over the plains of the country.
- ❖ During the past 24 hours, there has been **fall in minimum temperatures by 2-3^oC** in most parts of Punjab, Haryana, East Rajasthan, northeast Madhya Pradesh, West Uttar Pradesh and many parts of East Uttar Pradesh and West Madhya Pradesh.
- ❖ Minimum temperatures are above normal (2°C or more) over many parts of Northwest, Central, East & West India. These are below normal (-1°C to -3°C) at isolated places over Rajasthan, Coastal Andhra Pradesh & Yanam, Telangana and near normal over rest parts of the country.

Forecast of temperature:

- ❖ Gradual fall in minimum temperatures by about 2-3°C likely over Northwest India during next 3 days and gradual rise by 2-3°C during subsequent 4 days.
- ❖ No significant change in minimum temperatures likely over Central India during next 3 days and rise by 2-3°C during subsequent 3 days.
- ❖ No significant change in minimum temperatures likely over rest parts of the country.

Cold Wave Warnings:

Cold Wave conditions very likely in isolated pockets of Rajasthan on 25th; Himachal Pradesh and Punjab during 25th-27th and over Haryana on 26th & 27th January.

Dense Fog Warnings:

Dense fog conditions very likely to continue to prevail during night/early morning hours in isolated pockets of Sub-Himalayan West Bengal & Sikkim till 26th; Bihar & Odisha till 28th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura till 27th January.

Cold Day Warnings:

Cold day conditions very likely in a few pockets of Bihar on 25th & 26th January.







Main Weather Observations:

- * Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Arunachal Pradesh, Lakshadweep.
- Significant amount of rainfall (from 0830 hours IST of vesterday to 0830 hours IST of today) (in cm): Arunachal Pradesh: Huri(aws) (dist Kurung Kumey) 2, Sarli(aws) (dist Kurung Kamey) 2, Boleng(aws) (dist Siang) 1, Tenali aws (dist Upper Siang) 1, Daporizo Aws (dist Upper Subansiri) 1.
- ❖ Fog reported (at 0830 hours IST of today): Dense to very dense fog conditions (visibility < 50 m) reported in isolated pockets of Odisha, Assam & Meghalaya and dense fog (visibility 50-199 m) reported in isolated pockets of Uttarakhand, Bihar, West Bengal & Sikkim, Tripura.
- **❖ Visibility reported** (at 0830 hours IST of today) (≤500 m): **Uttarakhand**: Pantnagar 50m, Sub-Himalayan West Bengal: Pakyong, Darjeeling, Gangtok 50m each, Tadong 200m; Gangetic West Bengal: Durgapur 50m; Odisha: Bhubaneshwar 30 each; Bihar: Balmiki Nagar 50m; Assam & Meghalaya: Barapani 30m, Tejpur 100m, Sohra 200m; Tripura: Agartala, Kailashahar 100m each.
- **Cold Wave conditions** prevailed in isolated parts of Himachal Pradesh and Punjab.
- ❖ Minimum Temperature Departures (as on 25-01-2025): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Odisha, Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at a few places Konkan & Goa; at isolated places over Bihar, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Madhya Maharashtra, Vidarbha; above normal (1.6°C to 3.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Punjab, East Uttar Pradesh, Jharkhand, Chhattisgarh, Gujarat state, Kerala & Mahe, Rayalaseema, East Rajasthan. These are below normal (-1.6°C to -3.0°C) at isolated places over West Rajasthan, Coastal Andhra Pradesh & Yanam, Telangana (Fig. 4). Today, the lowest minimum temperature of 3.5°C is reported at **Sikar (East Rajasthan)** over the plains of the country.
- **Maximum Temperature Departures (as on 24-01-2025)**: Maximum temperatures were markedly above normal (5.1°C or above) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh; appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab; at isolated places over Uttar Pradesh, Haryana-Chandigarh-Delhi, Himachal Pradesh, Iharkhand, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Odisha; above normal (1.6°C to 3.0°C) at isolated places over Uttarakhand, Gangetic West Bengal, Madhya Pradesh, Saurashtra & Kutch. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Assam and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 36.6°C was reported at **Kannur Airport** (**Kerala**) over the plains of the country.







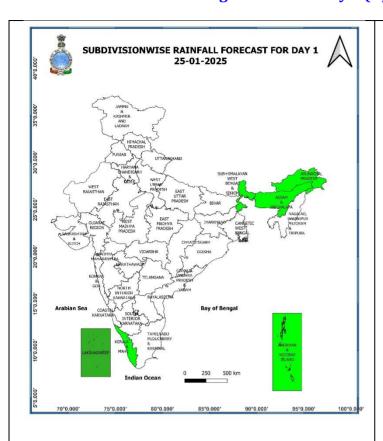
Meteorological Analysis (Based on 0830 hours IST)

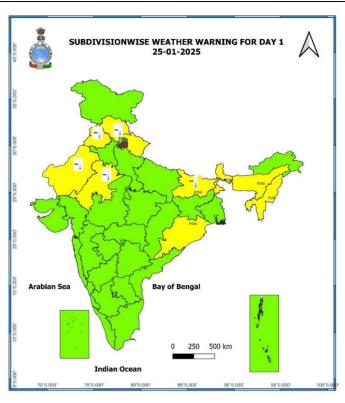
- Conditions are becoming favourable for cessation of Northeast Monsoon rains over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka during next 2 days.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood at 3.1 km above mean sea level persists.
- ❖ A **trough** in easterlies runs from northeast Arabian Sea to south Rajasthan across Gujarat at 1.5 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 Western Himalayan Region.
- ❖ A **Western Disturbance** is likely to affect Western Himalayan Region from 29th January, 2025.
- ❖ The **cyclonic circulation** over east Equatorial Indian Ocean & adjoining south Andaman Sea extending upto 3.1 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 01st February, 2025)



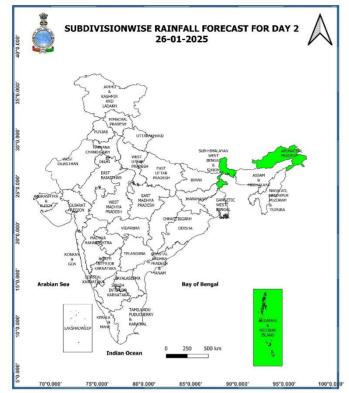


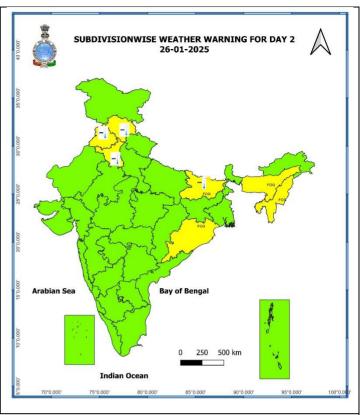
25th January (Day 1):

- Dense fog conditions very likely in isolated pockets of Sub-Himalayan West Bengal
 Sikkim, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Cold wave conditions very likely in isolated pockets of Himachal Pradesh, Punjab, Rajasthan.
- **❖ Ground Frost condition** very likely in isolated pockets of Uttarakhand.
- **❖ Cold day conditions** very likely in isolated pockets of Bihar.







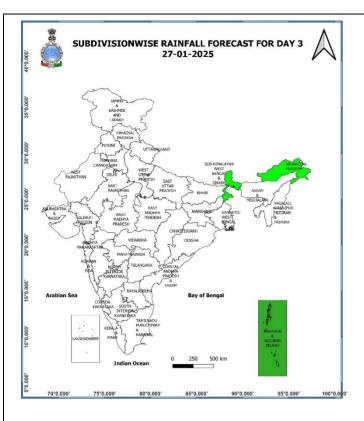


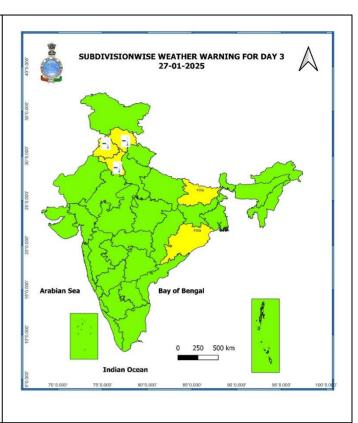
26th January (Day 2):

- ❖ **Dense fog conditions** very likely in isolated pockets of Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- **❖ Cold wave conditions** very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh.
- Cold day conditions very likely in isolated pockets of Bihar.









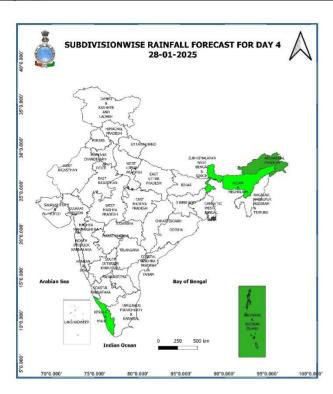
27th January (Day 3):

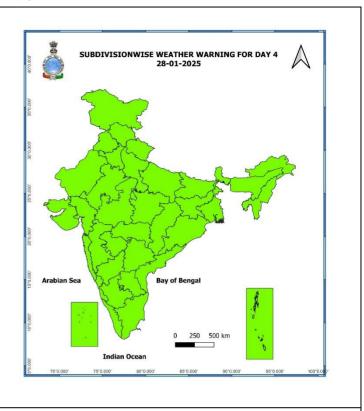
- ❖ **Dense fog conditions** very likely in isolated pockets of Bihar, Odisha.
- ❖ Cold wave conditions very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh.





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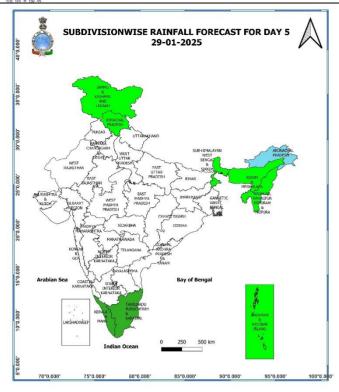


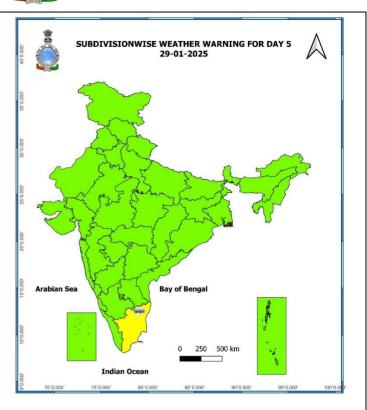


28th January (Day 4):

***** No Weather Warning.

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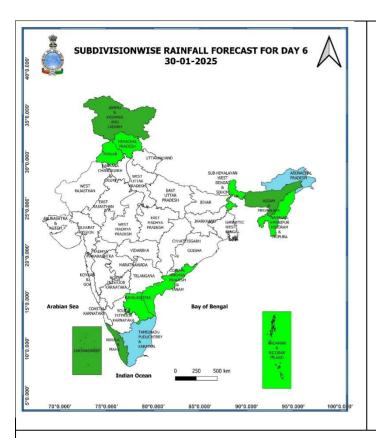


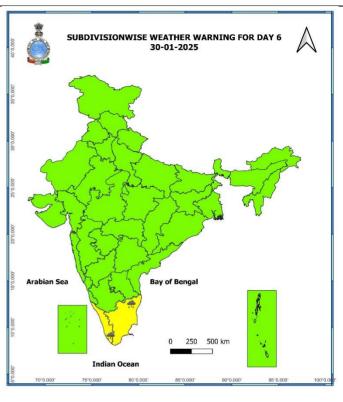
29th January (Day 5):

❖ Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal.







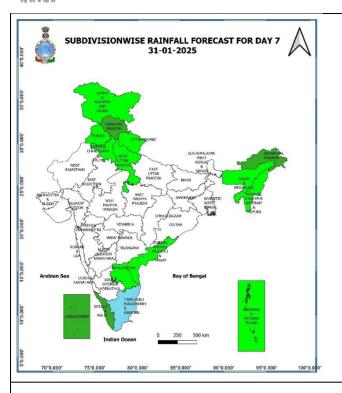


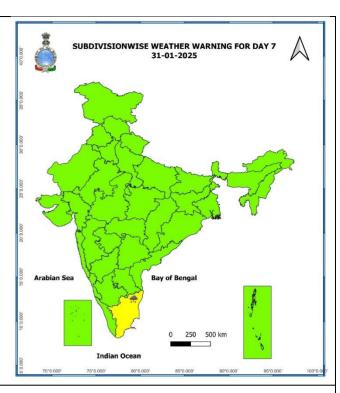
30th January (Day 6):

❖ **Heavy Rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.



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31st January (Day 7):

❖ Heavy Rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.

Weather Outlook for subsequent 3 days (During 01st February- 03rd February, 2025)

- ❖ Isolated to scattered rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ Fairly widespread to widespread rainfall over Tamil Nadu & South Interior Karnataka and isolated to scattered rainfall over Kerala, North Interior Karnataka & Telangana and isolated to scattered rainfall over Nicobar Islands.
- ❖ Isolated to scattered rainfall/snowfall over Arunachal Pradesh.

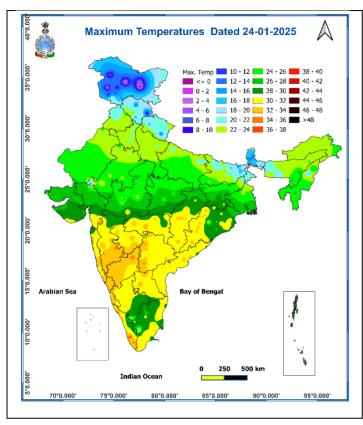
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

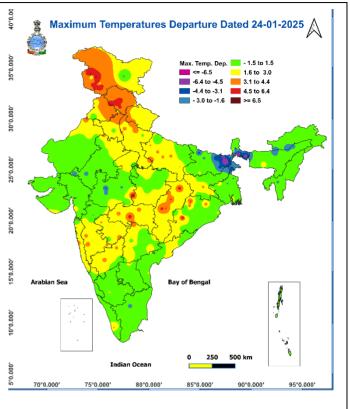
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures





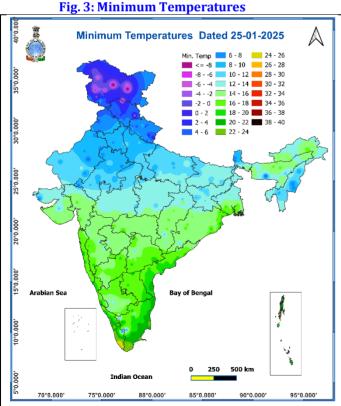
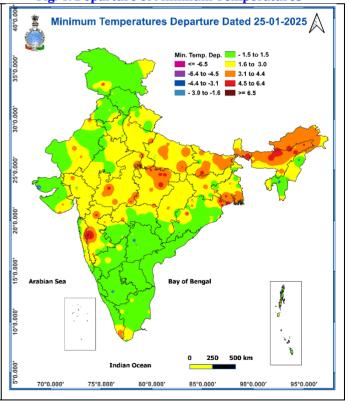


Fig. 4: Departure of Minimum Temperatures





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Impact expected due to dense fog in the night /morning hour:

- **❖** 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.

Impact expected due to Cold Day conditions

- ❖ An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- ❖ Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- ❖ Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- ❖ Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

- Wear several layers of loose fitting, light weight; warm woollen clothing.
- ❖ Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm Woolen clothing rather than one layer of heavy cloth.
- ❖ Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- ❖ Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- ❖ If the affected skin area turns black, immediately consult a doctor.
- ❖ Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- ❖ Take safety measures while using electrical and gas heating devices.
- ***** Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.





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Agromet advisories for likely impact of Heavy Rainfall over Tamil Nadu and Kerala

- > Drain out excess water from rice, sugarcane, cotton, turmeric, vegetables, and other standing crop fields, as well as coconut and banana orchards in **Tamil Nadu** and from rice, coffee, banana, coconut, areca nut, ginger, pepper, cardamom and other standing crops in **Kerala**.
- ➤ Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide mechanical support to horticultural crops and staking to vegetables.

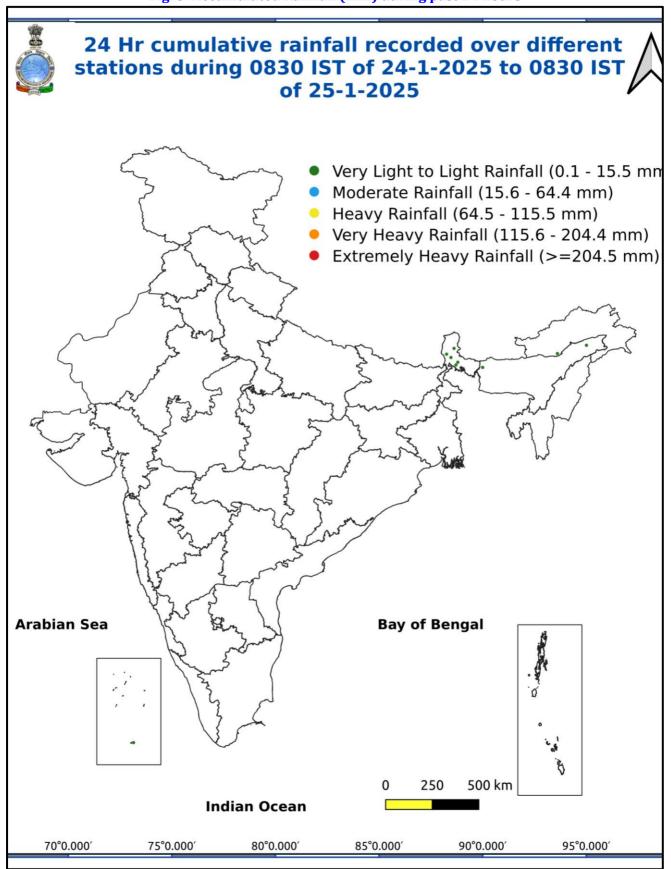
Livestock

- ➤ Keep the animals inside the shed during heavy rainfall period and provide them balanced feed.
- > Store feed and fodder in a safe place to prevent spoilage.
- > Check and disinfect poultry houses to prevent disease outbreaks due to dampness.





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



30. रायलसीमा

32. तटीय कर्नाटक

35. केरल और माहे

S Dust Raising Winds

36. लक्षद्वीप

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

31. तमिलनाडु, पुडुचेरी और कराईकल

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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LEGENDS



- 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. Odisha
- 8. Jharkhand
- 9. Rihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & Delhi
- 14. Puniab
- 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. Vidarbha
- 27. Chhattisgarh
- 28. Coastal Andhra Pradesh & Yanam
- 29. Telangana
- 30. Rayalaseema
- 31. Tamilnadu, Puducherry & Karaikal
- 32. Coastal Karnataka
- 33. North Interior Karnataka
- 34. South Interior Karnataka
- 35. Kerala & Mahe

Most Likely

> 75

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)



Strong Surface Winds





	DEFINITION/CRITERIA		
	Heavy: 64.5 to 115.5 mm/cm *		
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*		
	Extremely Heavy: > 204.4 mm/cm *		
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal		
Heat Wave	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		
	(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 departure is >4.5°C from normal. Heat Wave may be described provided maximum		
	temperature ≥37°C		
	When maximum temperature remains 40°C		
Varm Night	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.		
	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C		
Cold Wave	(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		
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure		
Cold Day	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		
	Dhannan of and the plate are and disciplined the basic and the basic and the basic and the second of		
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres		
Fog	Dense Fog: when the visibility between 50- 200 metres		
	Very Dense Fog: when the visibility < 50 metres		
hunderstorm	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)		
	A strong wind that rises suddenly, lasts for atleast 1 minute		
	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph		
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph		
Squall	Moderate: Wind speed 52-61 kmph		
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph		
	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		
Squall Sea State	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		
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Sea State	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)		
	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)		