

2026-01-13

Time of Issue: 14:00:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and warning:

Forecast of minimum temperatures:

- No significant change in minimum temperatures likely over northwest India during next 48 hours and gradual rise by 3-5°C during subsequent 5 days.
- No significant change in minimum temperatures likely over Maharashtra during next 24 hours; gradual fall by 2-3°C during next 3 days and thereafter gradual rise by 2-3°C during subsequent 3 days.
- No significant change in minimum temperatures likely over Gujarat State during next 48 hours and gradual rise by 2-3°C during subsequent 2 days and no significant change thereafter.
- No significant change in minimum temperatures likely over rest parts of the country.

Dense Fog, Cold day & Cold wave Warnings:

- **Dense to very dense fog** conditions very likely to prevail in morning hours in some parts over Haryana, Chandigarh & Delhi and Punjab till 15th and **Dense fog** in isolated pockets till 20th January 2026.
- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated/some parts over West Uttar Pradesh till 19th; **Dense fog** in isolated pockets on 20th January 2026.
- **Dense to very dense fog** conditions very likely to prevail in morning hours in some/many parts over East Uttar Pradesh during 17th-20th; **Dense fog** in isolated pockets on 15th & 16th January 2026.
- **Dense fog** conditions also likely during morning hours in isolated pockets over Jammu division, Himachal Pradesh till 16th; Uttarakhand till 18th; Bihar till 17th; Odisha till 16th; Sub-Himalayan West Bengal & Sikkim during 16th-18th; Gangetic West Bengal on 17th & 18th; Assam & Meghalaya on 15th & 16th January.
- **Cold day** conditions very likely in isolated pockets of Uttarakhand on 13th & 14th; West Uttar Pradesh on 13th January.
- **Cold wave to Severe Cold wave** conditions very likely in some/many parts of Punjab, Haryana, Chandigarh on 14th & 15th and **Cold wave conditions** in isolated pockets on 16th January.
- **Cold wave conditions** very likely in isolated pockets over Himachal Pradesh & Rajasthan on 14th & 15th; West Uttar Pradesh on 14th; Jharkhand & Odisha during 14th-16th January.

Ground frost Warning:

- **Ground frost conditions** very likely in isolated pockets over Uttarakhand on 13th & 14th and West Uttar Pradesh on 13th January, 2026.

Fishermen Warning:

- Fishermen are advised not to venture into the following areas during 13th January to 18th January, 2026:

Bay of Bengal:

Over Gulf of Mannar on 13th January; over some parts of Comorin area on 13th & 14th January.

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

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Main Weather Observations:

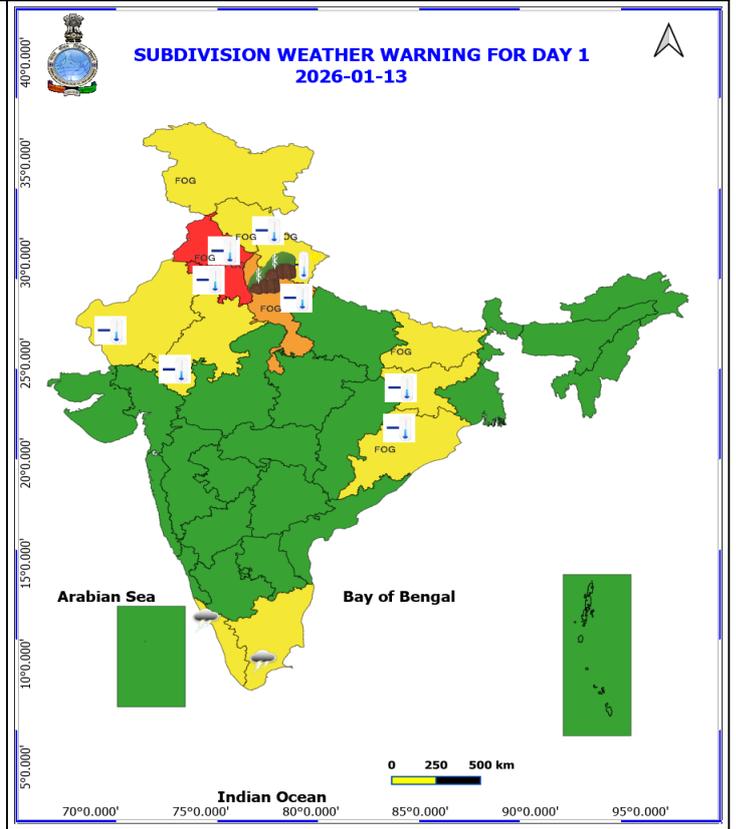
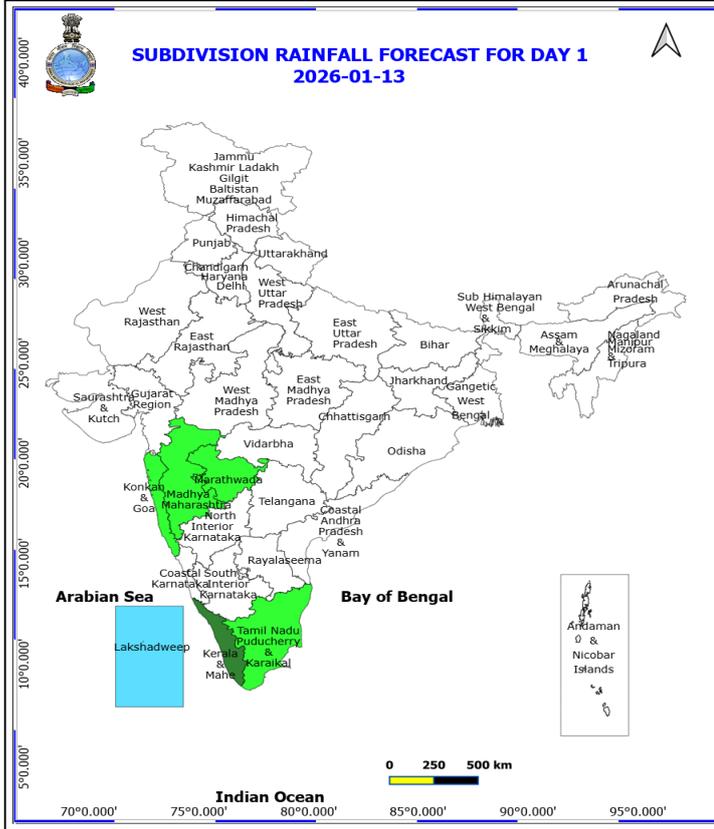
- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Tamil Nadu, Puducherry & Karaikal; **at isolated places** over Madhya Maharashtra, Rayalaseema, South Interior Karnataka and Kerala & Mahe; **Dry** over rest of the country.
 - ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Tamil Nadu, Puducherry & Karaikal:** Velankanni (dist Nagapattinam) 13; Tirupoondi (dist Nagapattinam), Thirukuvalai (dist Nagapattinam) 10 Each; Mayiladuthurai (dist Mayiladuthurai), Sirkali (dist Mayiladuthurai), Vedaranyam (dist Nagapattinam), Karaikal (dist Karaikal), Sembanarkoil PWD (dist Mayiladuthurai) 8 Each; Mayiladuthurai AWS (dist Mayiladuthurai), Vedharanyam AWS (dist Nagapattinam), Kollidam (dist Mayiladuthurai), Tarangambadi (dist Mayiladuthurai), Thalaignayer (dist Nagapattinam) 7 Each; ; **Kerala & Mahe:** Kozhikode (dist Kozhikode) 3; Kovilkadavu AWS (dist Idukki) 1.
 - ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal.
- **Dense to very Dense fog(visibility <50 m) conditions** prevailed in many parts of Punjab; in some parts of Uttarakhand, Haryana, West Uttar Pradesh; in isolated pockets of Jammu-Kashmir, Chandigarh; **dense fog (visibility 50-199 m) conditions** prevailed in isolated pockets of Odisha.
- **Visibility reported (in meters ?200):** **Jammu-Kashmir:** Udhampur 0; **Uttarakhand:** Pantnagar 0m, Laksar 50m, Bhagwanpur 50m, Kashipur 50m, Khatima 75m, Roshnabad 100m, Roorkee 100m, Haridwar 100m; **Punjab:** Amritsar 0m, Ludhiana 20m, Bathinda(<50m), Faridkot(<50m), Ballowal Saunkri 10m; Patiala 40m, Gurdaspur 100m; **Haryana & Chandigarh:** Ambala 0m; Hisar 20m, Karnal 20m, Bhiwani 05m; Chandigarh 40m; **West Uttar Pradesh:** Bareilly IAF, Hindon IAF & Sarsawa(IAF) 0m, Meerut 30m, AMS Moradabad, Muzaffarnagar & Najibabad 50m each, Bareilly 100m; **Odisha:** Rourkela 100m.
- **Cold wave to severe cold wave conditions** prevailed in many parts of Punjab & Haryana; in some parts of Himachal Pradesh; in isolated pockets of East Rajasthan and **Cold wave conditions** in isolated pockets of Uttar Pradesh and West Rajasthan.
- **Cold day conditions** prevailed in isolated pockets of Uttarakhand.
- **Ground frost conditions** have been recorded in isolated pockets over Uttarakhand.
- **Heavy to very heavy rainfall (7-20 cm)** has been recorded at isolated places over Tamil Nadu.
 - ❖ **Minimum Temperature Departures (as on 13-01-2026): below normal(-1.6°C to -3.0°C)** at few places over Andaman & Nicobar Islands, Odisha, Jharkhand, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Saurashtra & Kutch, Vidarbha and Chhattisgarh; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Bihar, East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, East Madhya Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Haryana-Chandigarh-Delhi; at few places over West Uttar Pradesh, Punjab and South Interior Karnataka; at isolated places over Odisha, Bihar, East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Saurashtra & Kutch, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **markedly below normal(< -5.0°C)** at many places over Himachal Pradesh; at few places over Assam & Meghalaya, Gangetic West Bengal, Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh and Gujarat Region; at isolated places over Sub Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, East Rajasthan, Saurashtra & Kutch, Vidarbha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **The lowest minimum temperature of 0.0°C** is reported at **BALLOWALSAUNKARI (PUNJAB)** over the Plains of India.
 - ❖ **Maximum Temperature Departures (as on 12-01-2026): appreciably below normal(-5.0°C to -3.1°C)** at few places over Punjab. **The highest maximum temperature of 36.6°C** is reported at **KOTTAYAM (KERALA)**.

Meteorological Analysis (Based on 0830 hours IST)

- The **upper air cyclonic circulation** over Comorin area & neighbourhood lay over Gulf of Mannar & neighbourhood at 0.9 km above mean sea level.
- The **Western Disturbance** as a trough in middle tropospheric westerlies roughly along Long. 65°E to the north Lat. 25°N now seen as a cyclonic circulation over Himachal Pradesh and neighbourhood at 3.1km above mean sea level.
- The **upper air cyclonic circulation** over south Haryana & neighbourhood lay over northwest Uttar Pradesh at 0.9 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 100 knots at 12.6 km above mean sea level continues to prevail over north India.
- A **trough** in middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level between runs roughly along Long. 60°E to the north of Lat. 27°N and long. 60°E to the north of Lat. 15°N.
- A fresh **Western disturbance** is likely to affect Western Himalayan region from 15th January, 2026 night.

Weather Outlook for subsequent 3 days

- Scattered to Fairly widespread activity likely over Western Himalayan Region, Plains of northwest India except Rajasthan And Madhya Pradesh where isolated/scattered rainfall activity is likely.
- Isolated rainfall activity is likely over Kerala, Lakshadweep and Nicobar islands.



13 January (Day 1)

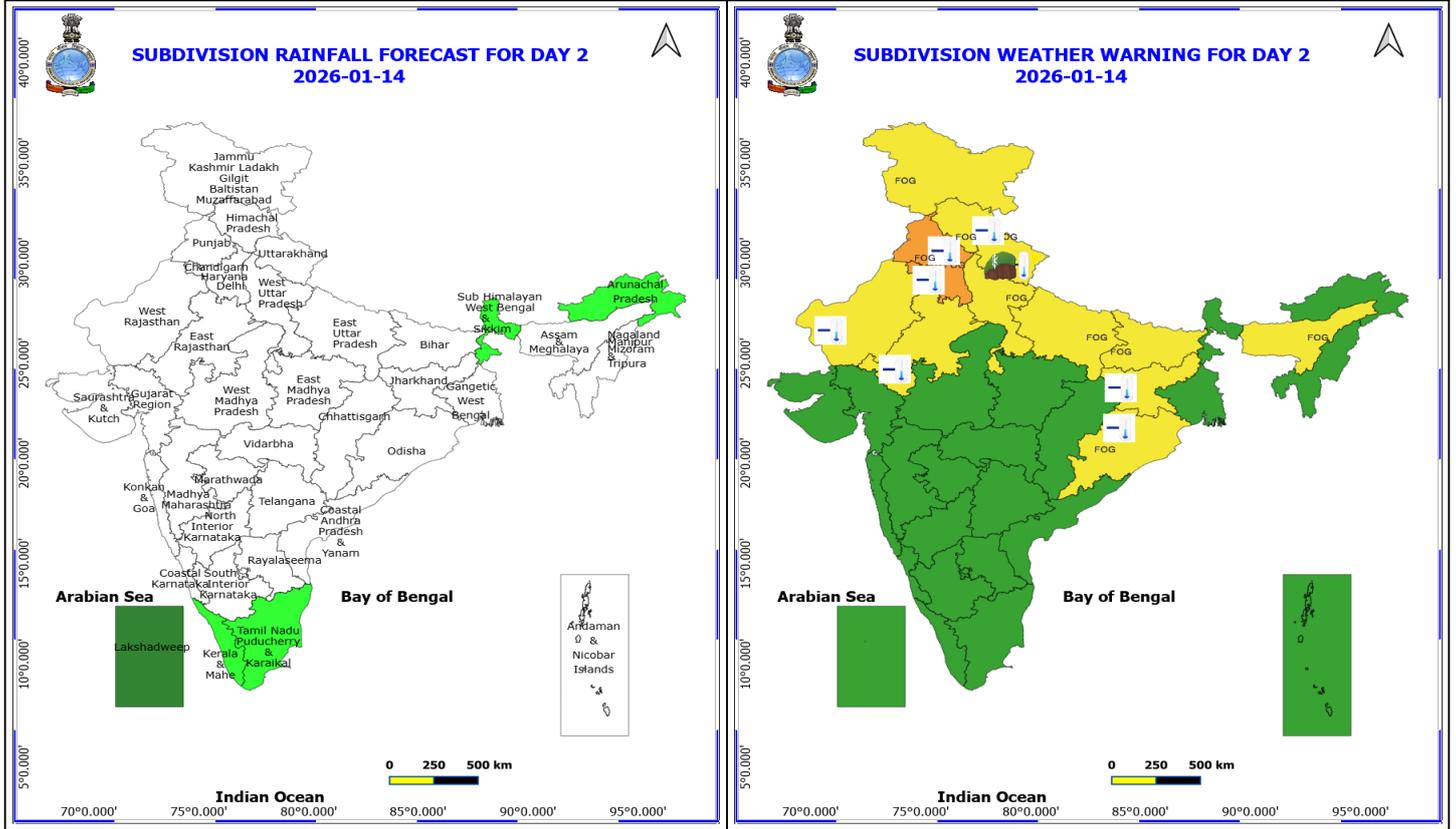
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh, Jharkhand, Odisha, Rajasthan and West Uttar Pradesh.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Cold Day conditions** very likely at isolated places over Uttarakhand.
- ❖ **Ground Frost** very likely at isolated places over Uttarakhand and West Uttar Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over Gulf of Mannar, some parts of Comorin area.

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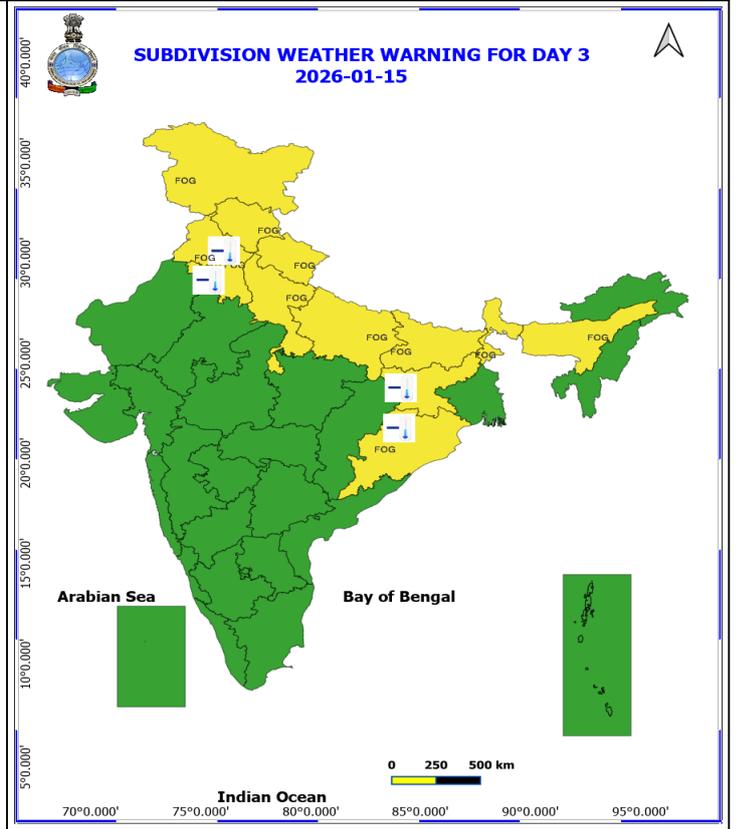
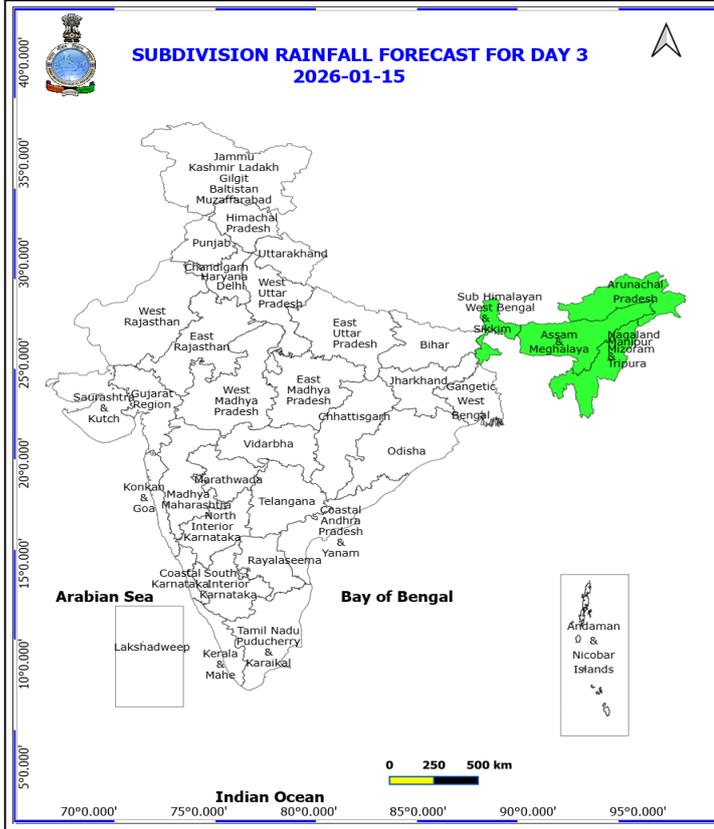
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14 January (Day 2)

- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh, Jharkhand, Odisha and Rajasthan.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Cold Day conditions** very likely at isolated places over Uttarakhand.
- ❖ **Ground Frost** very likely at isolated places over Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over some parts of Comorin area.

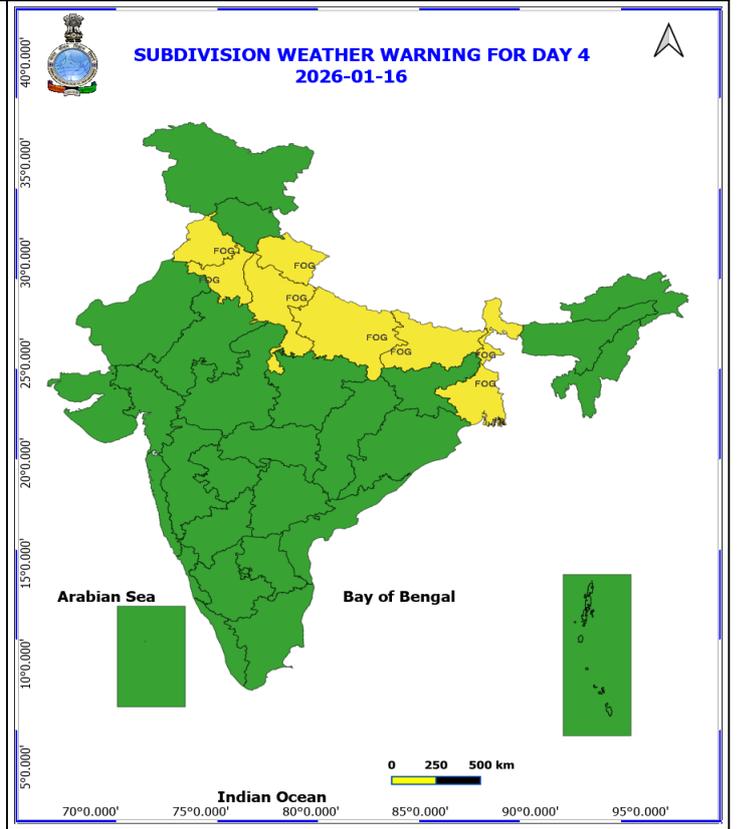
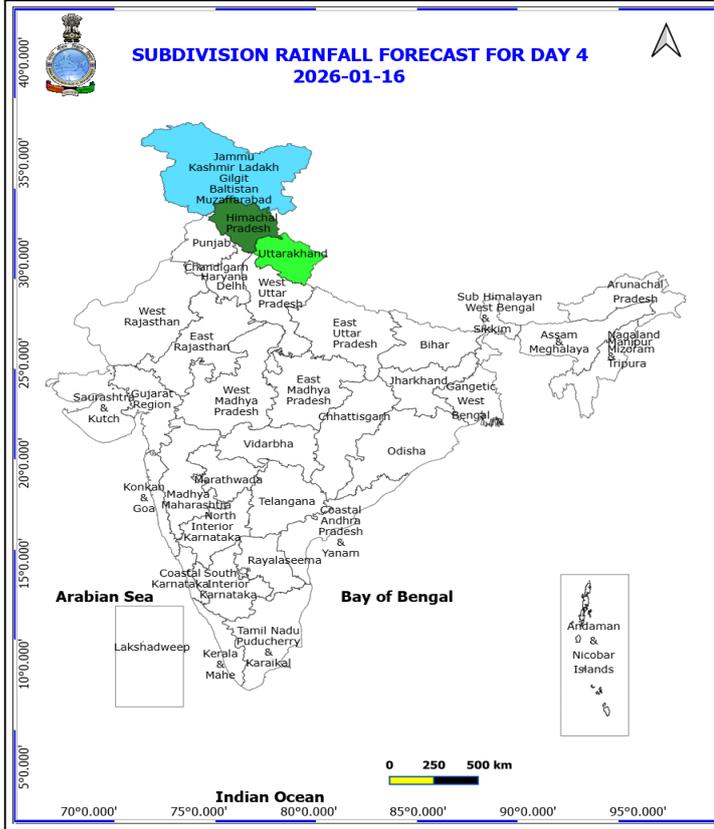
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15 January (Day 3)

- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Jharkhand, Odisha and Punjab.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over West Uttar Pradesh.

No Fishermen Warning

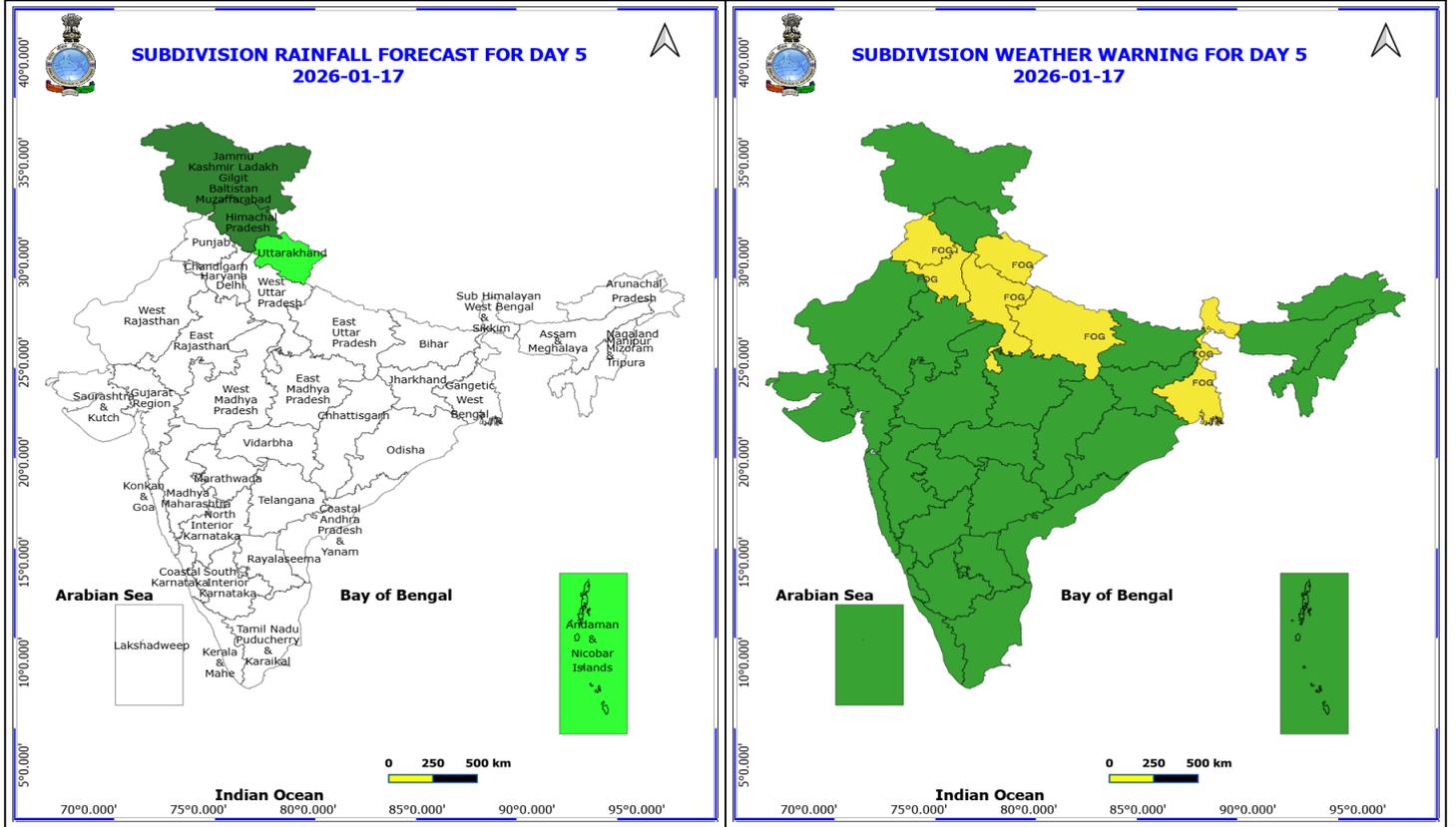


16 January (Day 4)

❖ **Dense Fog** likely at isolated places over Bihar, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Uttarakhnad and West Bengal & Sikkim.

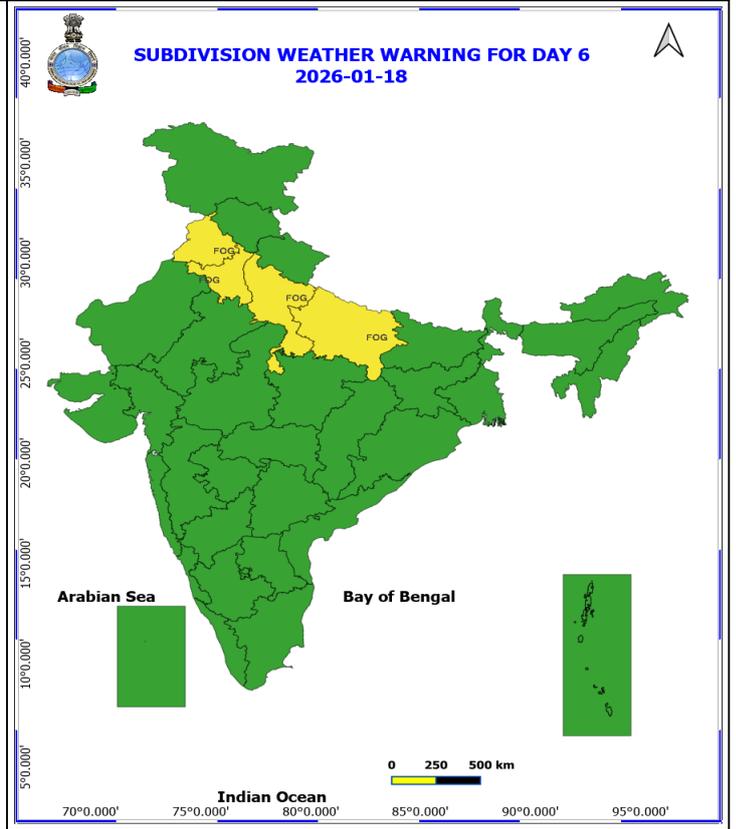
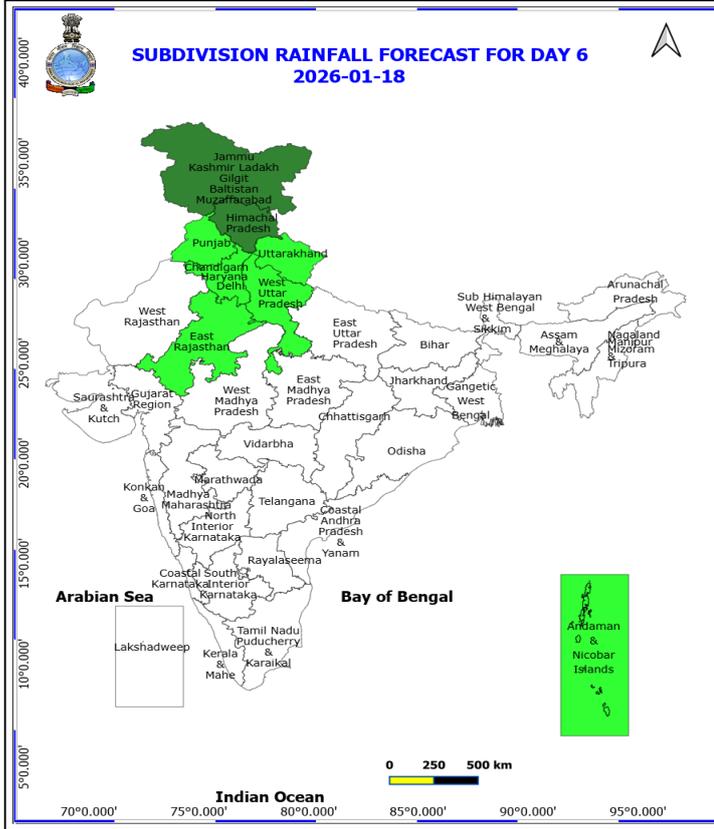
❖ **Dense to Very Dense Fog** likely at isolated places over West Uttar Pradesh.

No Fishermen Warning



17 January (Day 5)

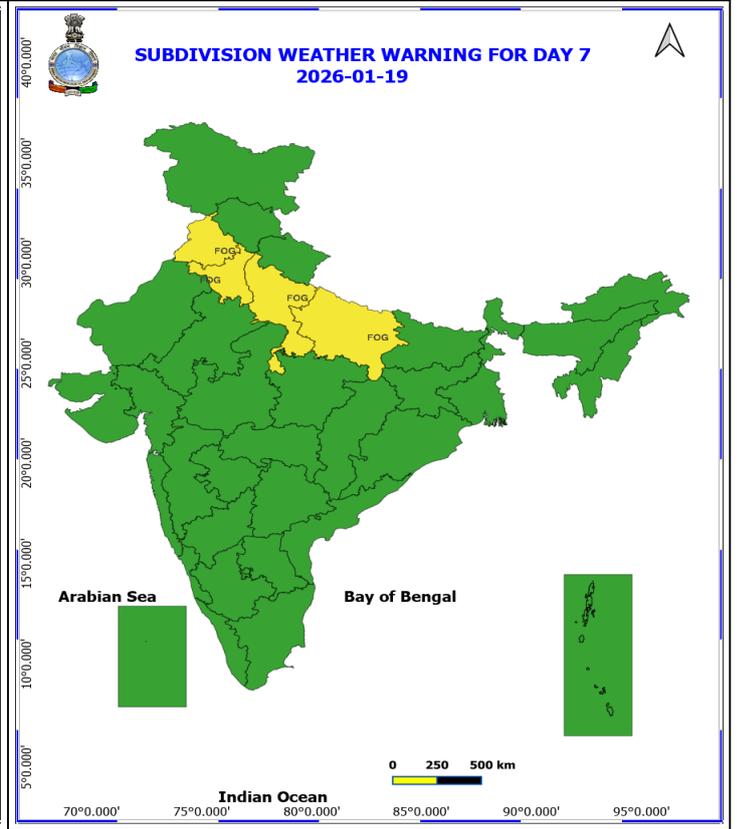
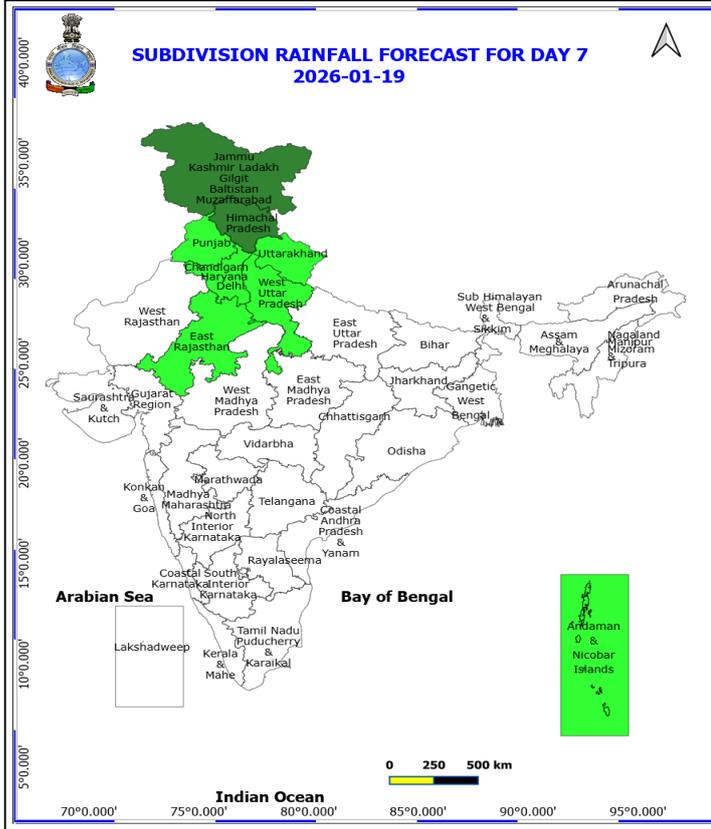
- ❖ **Dense Fog** likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Uttarakhand and West Bengal & Sikkim.
 - ❖ **Dense to Very Dense Fog** likely at isolated places over West Uttar Pradesh.
- No Fishermen Warning**



18 January (Day 6)

- ❖ **Dense Fog** likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Dense to Very Dense Fog** likely at isolated places over West Uttar Pradesh.

No Fishermen Warning



19 January (Day 7)

❖ **Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.

No Fishermen Warning



Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	13- Jan	14- Jan	15- Jan	16- Jan	17- Jan	18- Jan	19- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
12	UTTARAKHAND	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	DRY	SCT	SCT	SCT	SCT
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	FWS	SCT	SCT	SCT
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	DRY						
29	TELANGANA	DRY						
30	RAYALASEEMA	DRY						
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	FWS	SCT	DRY	DRY	DRY	DRY	DRY

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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Fig. 1: Maximum Temperatures Dated 2026-01-12

Fig. 2: Departure of Maximum Temp. Dated 2026-01-12

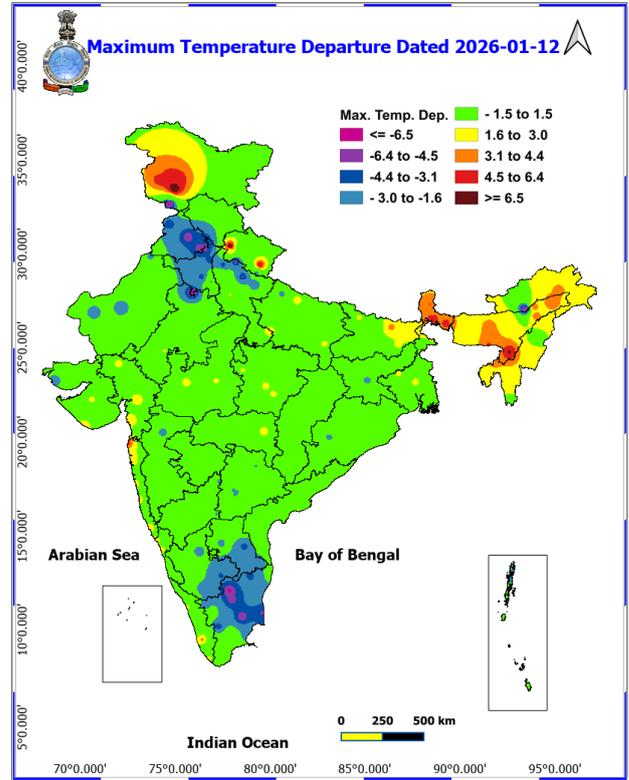
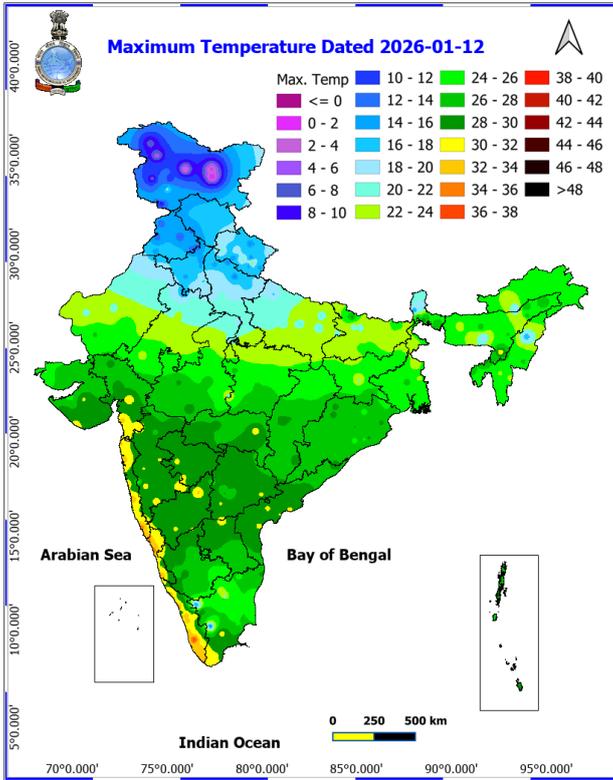
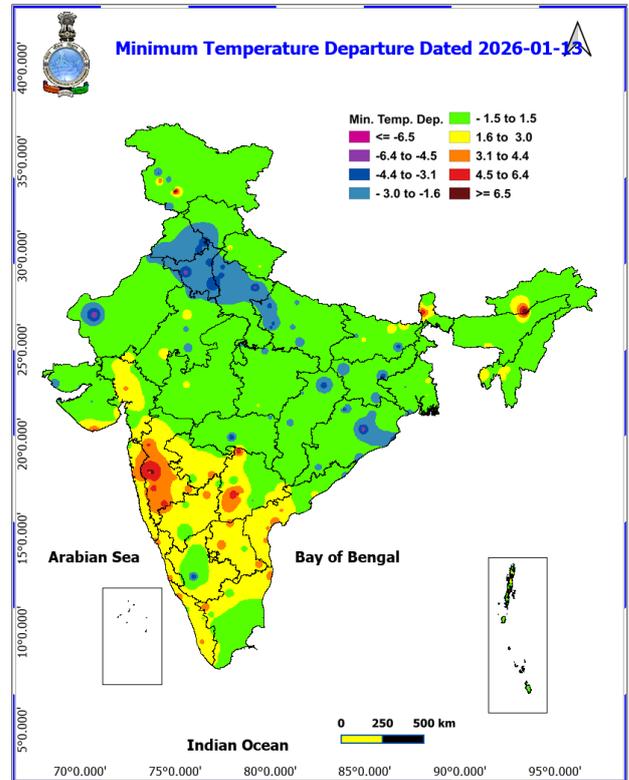
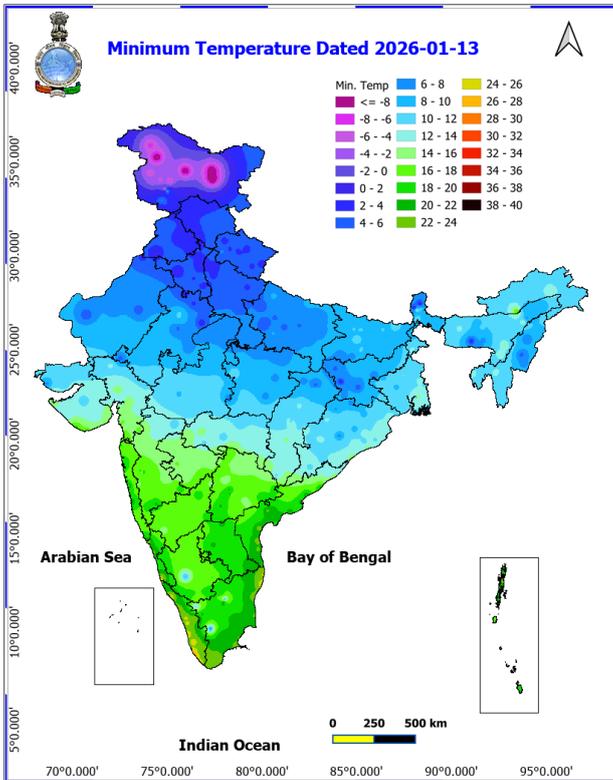
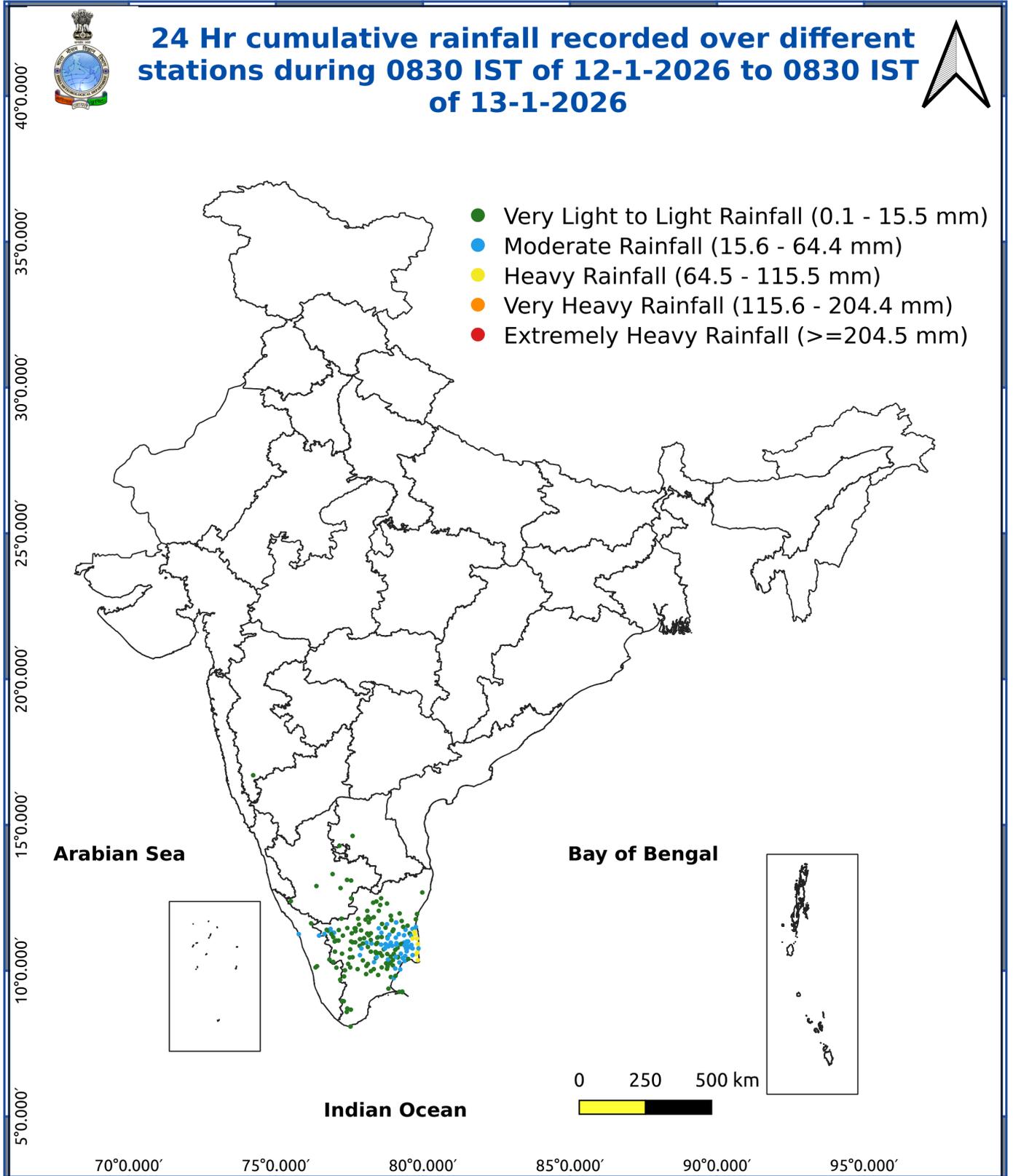


Fig. 3: Minimum Temperatures Dated 2026-01-13

Fig. 4: Departure of Minimum Temp. Dated 2026-01-13





Impact and Actions

Impact expected due to Cold Wave to Severe Cold wave conditions:

Cold wave to Severe Cold wave conditions very likely to continue over Himachal Pradesh, Punjab, Haryana, Delhi, Rajasthan, Jharkhand and Odisha during next 2-3 days and abate thereafter.

- 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 woollen 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.

Impact expected due to Cold Day conditions:

Cold day conditions very likely in isolated pockets of Uttarakhand and West Uttar Pradesh during next 2 days.

- 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.
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- 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.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Cold Waves/ Ground Frost/ Low Temperatures:

In Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Rajasthan, Odisha and Jharkhand, apply light and frequent irrigation to the standing crops in the evening hours to protect crops from low temperature stress or cold injury. Use mulching and cover the vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry

Keep the cattle in the sheds during night and provide dry bedding to protect them from cold.

Keep the chicks warm by providing artificial light in the poultry sheds.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Legends & abbreviations:

Heavy Rain:64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.

Obsy: Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.

Region wise classification of meteorological Sub-Divisions:

Northwest India: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.

Central India: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.

East India: Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

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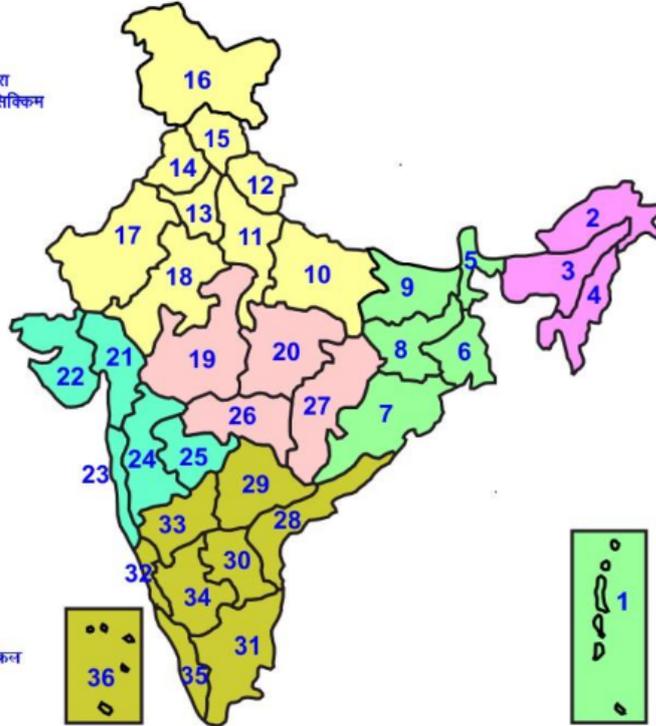
Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.

South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ 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 क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 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. Marathawada
26. Vidharbha
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
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)

Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

- | | | | |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow |
| Thunderstorm & Lightning | Hailstorm | Dust Storm | Dust Raising Winds |
| Strong surface winds | Heat Wave | Hot Day | Warm Night |
| Cold Wave | Cold Day | Ground Frost | Fog |
| Hot & Humid | | | |

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

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

(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 $\leq -4.5^{\circ}\text{C}$ & 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 Storm: Wind speed > 220 kmph (> 119 knots)

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