

2026-01-31

Time of Issue: 13:36:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

- Light to moderate rainfall at isolated places over Western Himalayan Region on 31<sup>st</sup> January. Scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 01<sup>st</sup> February and Uttarakhand on 01<sup>st</sup>-02<sup>nd</sup> February.
- **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speeds reaching (30-40 gusting to 50 kmph)** likely over Punjab and Haryana Chandigarh on 01<sup>st</sup> February and Uttar Pradesh & Madhya Pradesh during 01<sup>st</sup> -03<sup>rd</sup> February; East Rajasthan during 31<sup>st</sup> January -02<sup>nd</sup> February.
- **Isolated Hailstorm activity also likely** over East Rajasthan on 31<sup>st</sup> January-01<sup>st</sup> February and over West Madhya Pradesh on 01<sup>st</sup> February, 2026.

#### Forecast of minimum temperatures:

- Rise in minimum temperature by 3-5°C over Northwest India during next 24 hours, no significant change during next 48 hours; fall by 2-4°C during subsequent 4 days thereafter.
- No significant change likely over Gujarat State during next 24 hours and gradual fall by 3-5°C during subsequent 2 days and gradual rise by 2-3°C for subsequent 4 days thereafter.
- No significant change in minimum temperatures likely over rest parts of the country.

#### Dense Fog, Cold day Warnings:

- **Dense fog conditions** likely during morning/night hours in isolated pockets over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar, Punjab, Haryana, Chandigarh, Uttar Pradesh till 01<sup>st</sup> February; Odisha till February and East Rajasthan on 04<sup>th</sup> & 5<sup>th</sup> February.
- **Cold day** conditions likely in isolated pockets over West Uttar Pradesh on 31<sup>st</sup> and East Uttar Pradesh on 31<sup>st</sup> January & 01<sup>st</sup> February.

\*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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**Main Weather Observations:**

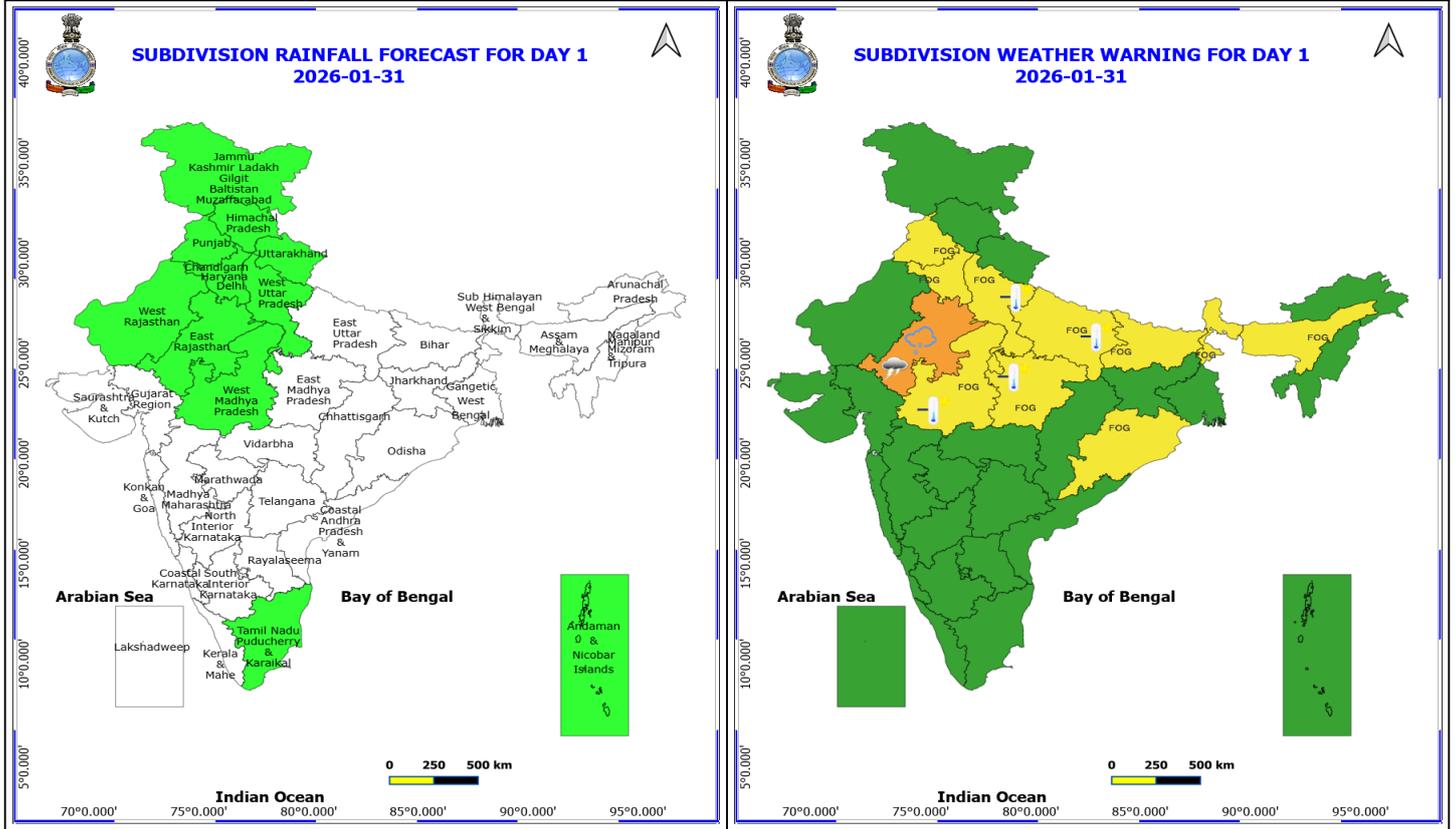
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at isolated places** over Arunachal Pradesh and East Rajasthan ; **Dry** over rest of the country.
- ❖ **Fog Condition Observed (at 0830 hours of today): Dense to very Dense fog(visibility <50 m) conditions** prevailed at a few places over Uttar Pradesh; in isolated pockets of Himachal Pradesh, Punjab Haryana and West Madhya Pradesh and **dense fog (visibility 50-199 m)conditions** in isolated pockets over Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya
- ❖ **Visibility reported (at 0830 hours of today): Sub-Himalayan West Bengal:**Jalpaiguri(50), Bagdogra(100); **Bihar:**Bhagalpur(50) , Gaya(100) ; **Himachal Pradesh:**Bilaspur (40); **West Uttar Pradesh:**Bareilly (IAF), Sarsawa(IAF), Hindon (IAF), Aligarh AP & Agra (IAF)(00) Each, Meerut(10), Bareilly (AP)(20), Bareilly, Agra Taj & Aligarh(30) Each, Hamirpur(40), Etawah, Agra Taj, Aligarh, Muzaffarnagar(50) Each, Shahjahanpur(70), AMS Moradabad & Najibabad(100) Each; **East Uttar Pradesh:**Azamgarh & Kanpur IAF (00) Each, Kanpur City, Ballia-20 Each, Lucknow(AP), Varanasi (AP), Churk, Fatehpur & Fursatganj(50) Each, Prayagraj, Sultanpur(60) Each, Hardoi, Fatehgarh-80 Each, Prayagraj (IAF)(100); **Assam & Meghalaya:**Jorhat (150), Barapani (100); **Punjab:**Patiala(50) ; **Haryana:**Ambala (0) , Karnal(0) .
- ❖ **Minimum Temperature Departures (as on 31-01-2026):** above normal by (3°C to 5°C) over Himachal Pradesh, Uttarakhand and West India by (1°C to 3°C) over Western Himalayan Region, Uttar Pradesh, Bihar, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Assam & Meghalaya and Gangetic West Bengal, and near normal over rest parts of the country. **The lowest minimum temperature** of 3.8°C is reported at FARIDKOT (PUNJAB) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 30-01-2026):** Appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Uttar Pradesh, below normal at isolated places over Bihar, Madhya Pradesh and East Rajasthan. **The highest maximum temperature** of 35.0°C is reported at KOTTAYAM (KERALA).

### Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** as a **cyclonic circulation** now lies over North Afghanistan and neighbourhood between 3.1 & 7.6 km above mean sea level tilting northwestwards with height.
- An Induced **cyclonic circulation** lies over Central Pakistan at 1.5 km above mean sea level.
- A **trough** runs from cyclonic circulation over Central Pakistan to Northwest Uttar Pradesh across Punjab and Haryana at 1.5 Km above mean sea level.
- A **trough** runs from Northeast Arabian Sea to Punjab across Gujrat and Rajasthan at 0.9 km above mean sea level.
- An upper air **cyclonic circulation** lies over North Gujrat and Neighbourhood at 0.9 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 115 knots at 12.6 km above mean sea level continues to prevail over North India.
- The **upper air cyclonic circulation** over Kerala now lies over southeast Arabian sea adjoining Lakshadweep area and Kerala coast at 0.9 km above mean sea level.
- A fresh **western disturbance** is likely to affect northwest India from the night of 02<sup>nd</sup> February 2026.
- Another fresh **western disturbance** is likely to affect northwest India from the night of 05<sup>th</sup> February 2026.

### Weather Outlook for subsequent 3 days

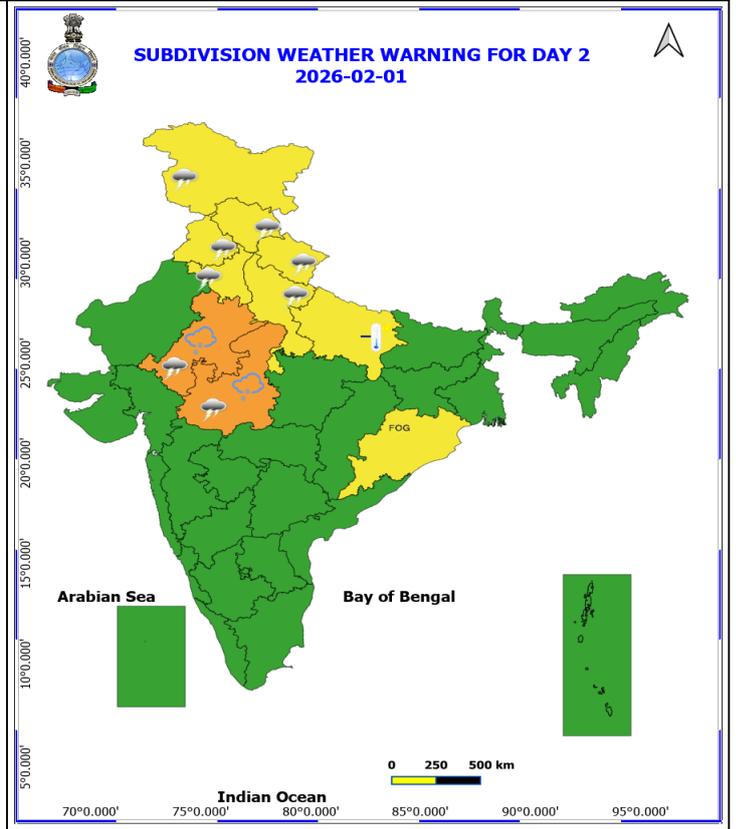
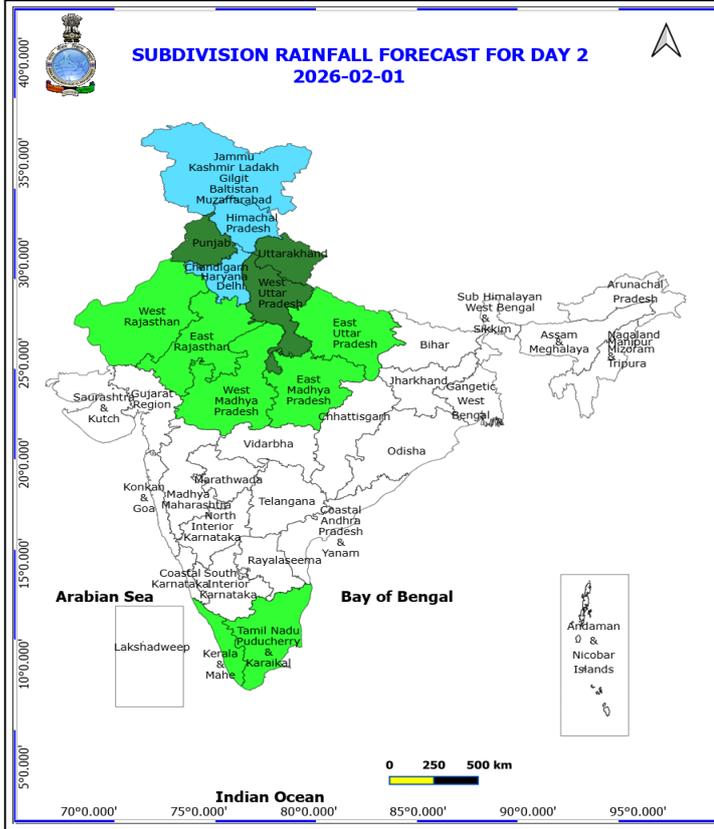
- Isolated/Scattered rainfall/snowfall activity likely over Western Himalayan Region.
- Isolated/Scattered rainfall activity likely over Punjab, Uttar Pradesh, Tamil Nadu and Madhya Pradesh.



**31 January (Day 1)**

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over East Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Rajasthan.
- ❖ **Cold Day conditions** very likely at isolated places over Madhya Pradesh and Uttar Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.

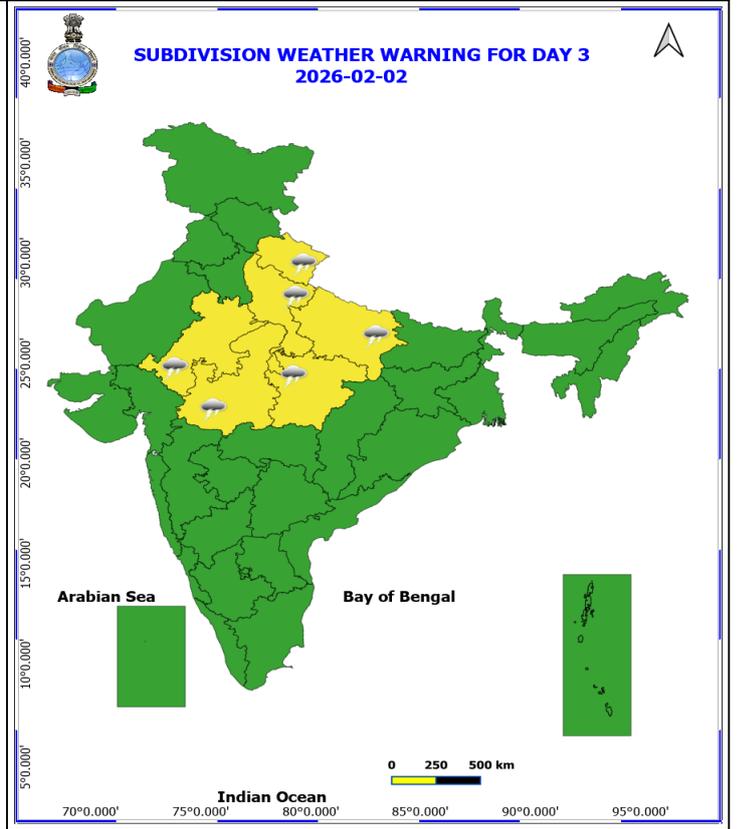
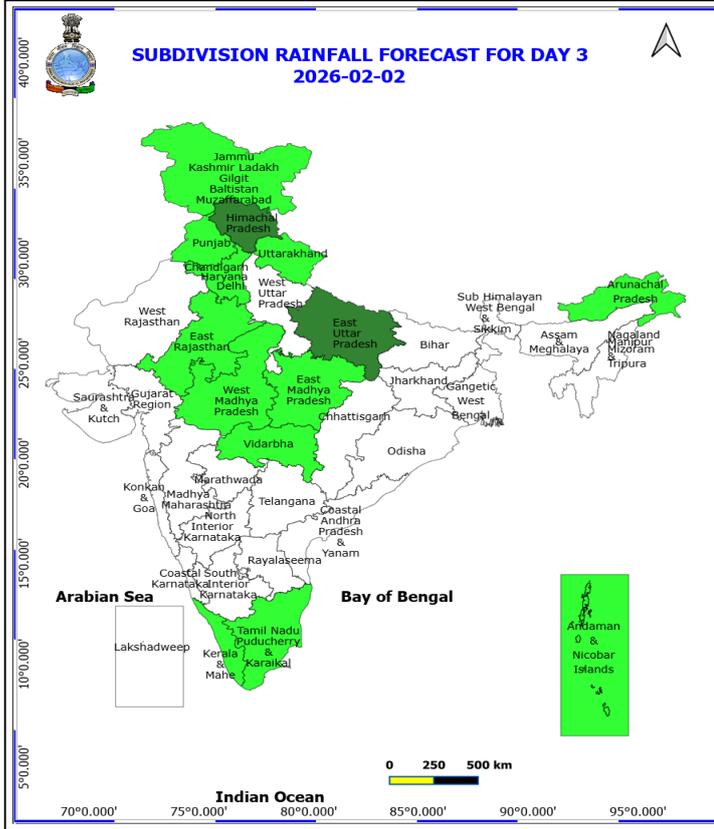
**No Fishermen Warning**



### 1 February (Day 2)

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over East Rajasthan and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Himachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Rajasthan, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Uttarakhand, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Cold Day conditions** very likely at isolated places over East Uttar Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Odisha.

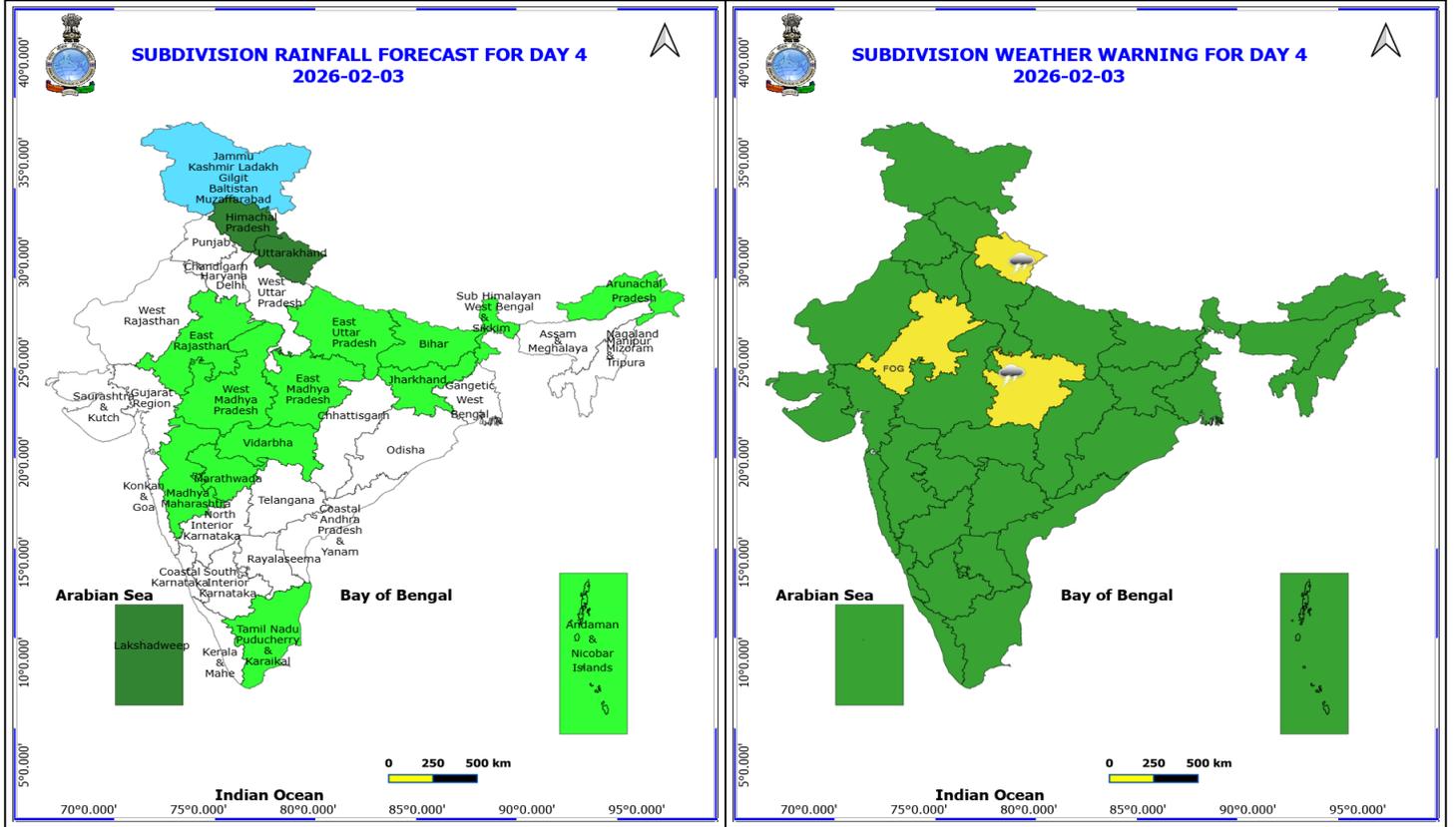
**No Fishermen Warning**



**2 February (Day 3)**

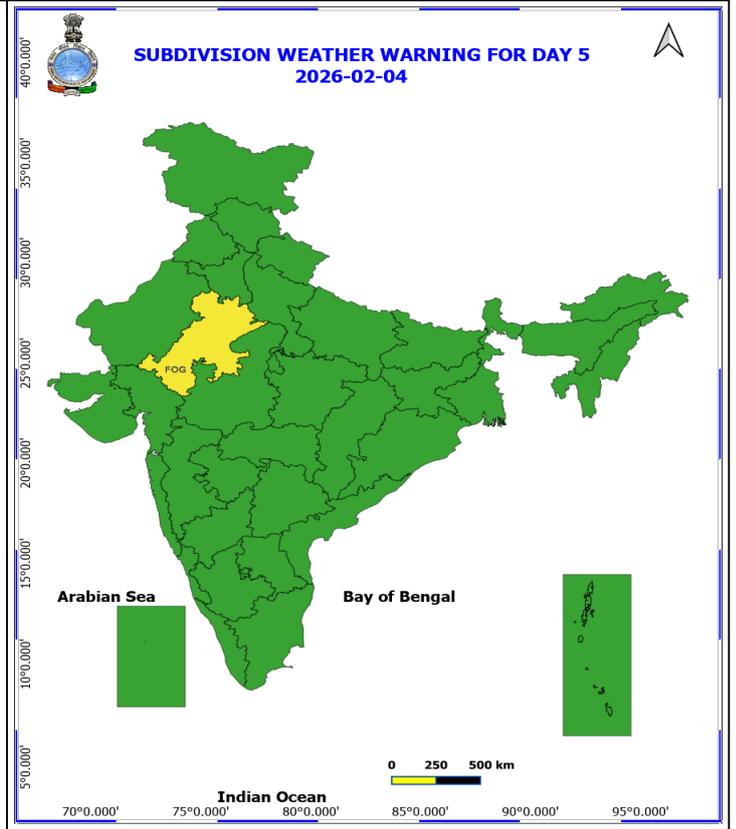
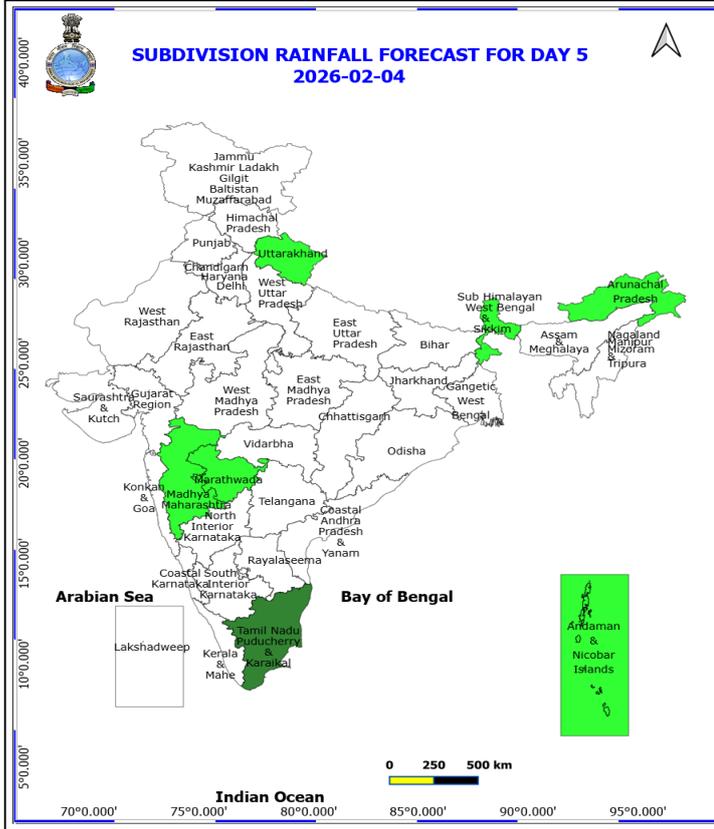
❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over East Rajasthan, Madhya Pradesh, Uttar Pradesh and Uttarakhnad.

**No Fishermen Warning**



**3 February (Day 4)**

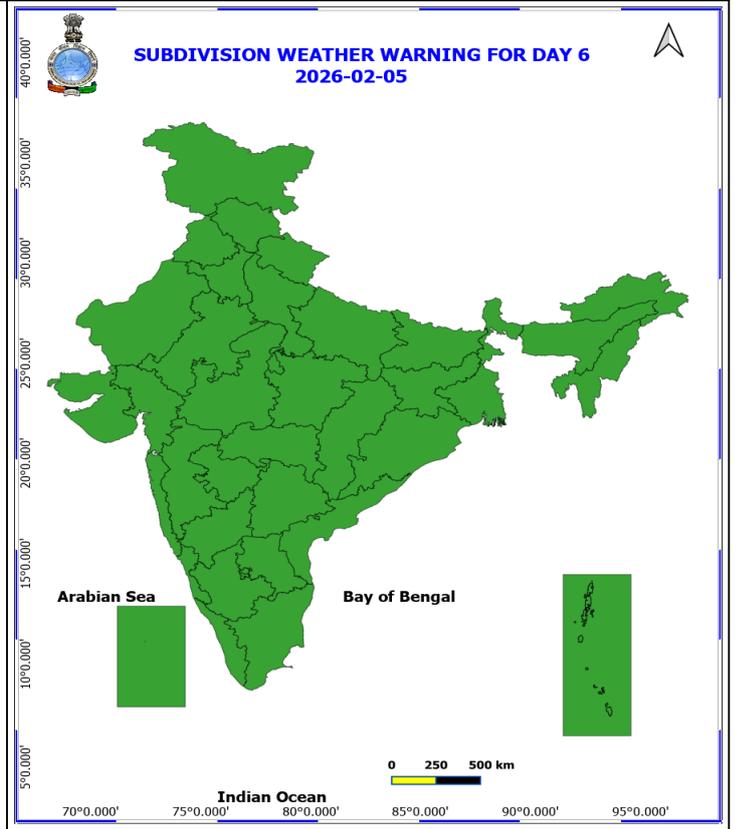
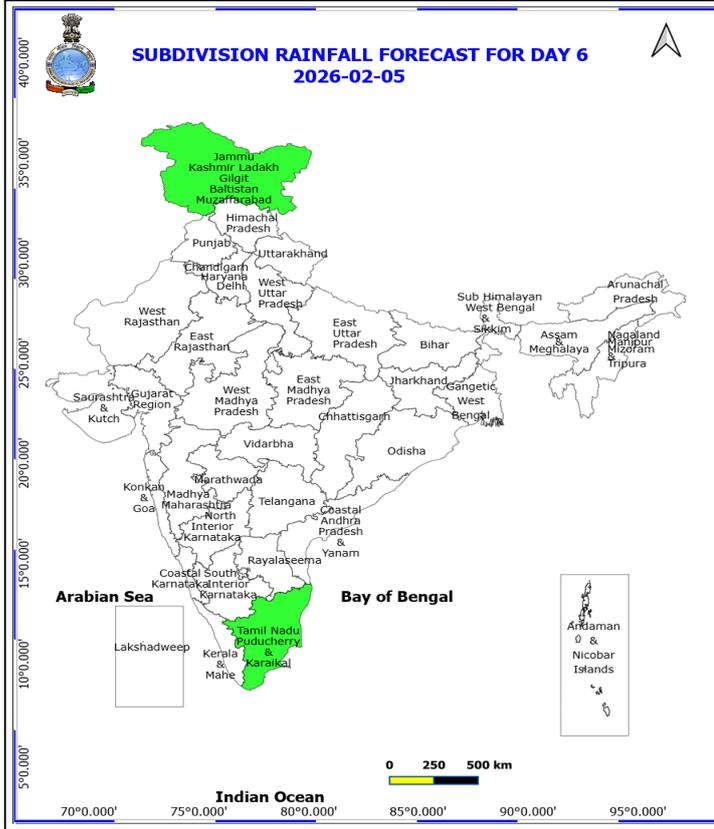
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Uttarakhand.
  - ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over East Madhya Pradesh.
  - ❖ **Dense Fog** likely at isolated places over East Rajasthan.
- No Fishermen Warning**



**4 February (Day 5)**

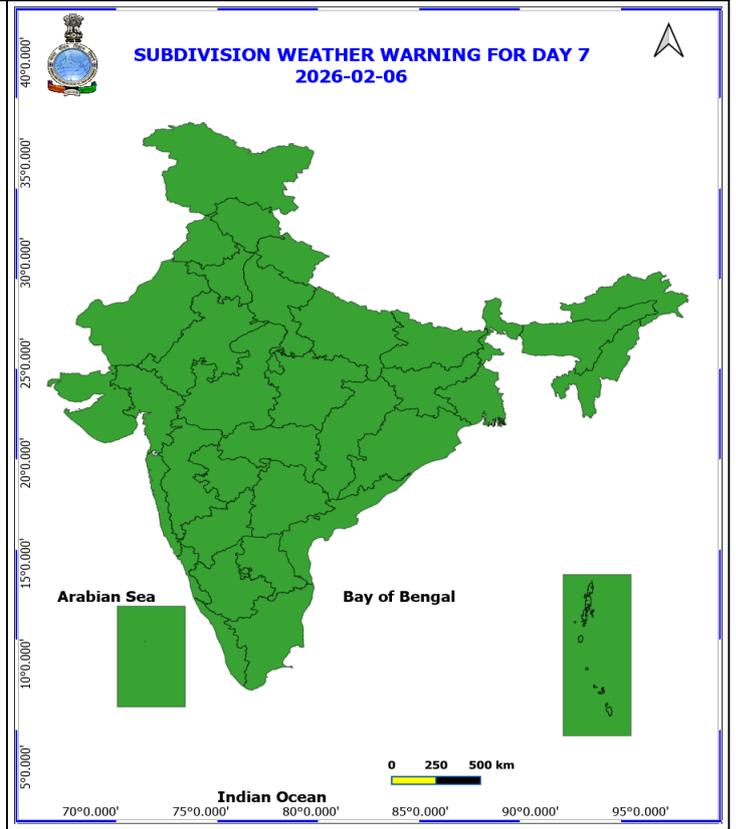
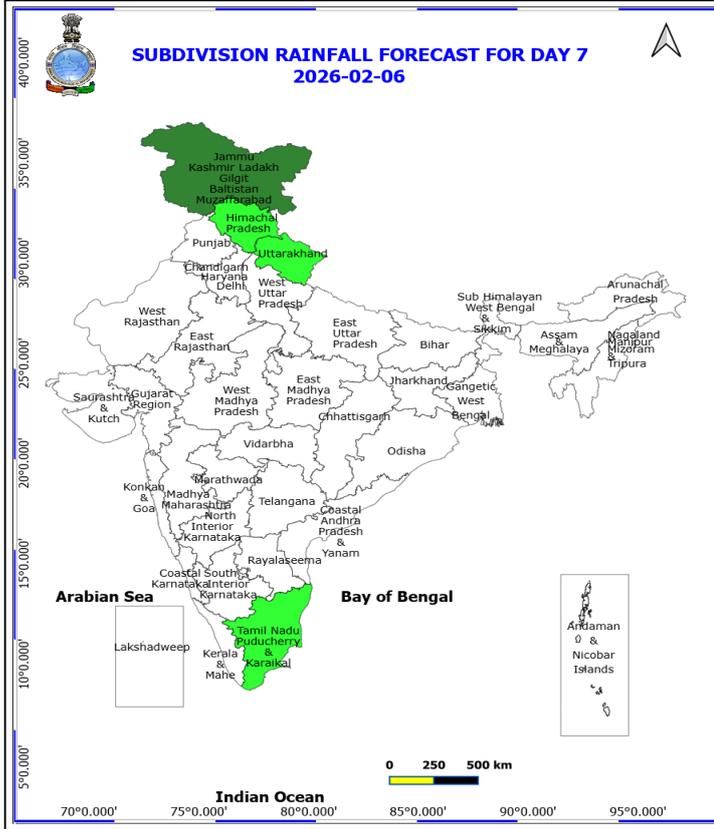
❖ **Dense Fog** likely at isolated places over East Rajasthan.

**No Fishermen Warning**



**5 February (Day 6)**

No Warning  
No Fishermen Warning



**6 February (Day 7)**

**No Warning**

**No Fishermen Warning**



## Table-1

### 7 Days Rainfall Forecast

S.No.	Subdivision	31- Jan	1- Feb	2- Feb	3- Feb	4- Feb	5- Feb	6- Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	DRY	ISOL	ISOL	ISOL	DRY	DRY
2	ARUNACHAL PRADESH	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	ISOL	SCT	ISOL	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	SCT	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	SCT	ISOL	SCT	ISOL	DRY	ISOL
13	HARYANA, CHD & DELHI	ISOL	FWS	ISOL	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	SCT	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	FWS	SCT	SCT	DRY	DRY	ISOL
16	JAMMU AND KASHMIR AND LADAKH	ISOL	FWS	ISOL	FWS	DRY	ISOL	SCT
17	WEST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
26	VIDARBHA	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	DRY	DRY	DRY	SCT	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 2026-01-30

Fig. 2: Departure of Maximum Temp. Dated 2026-01-30

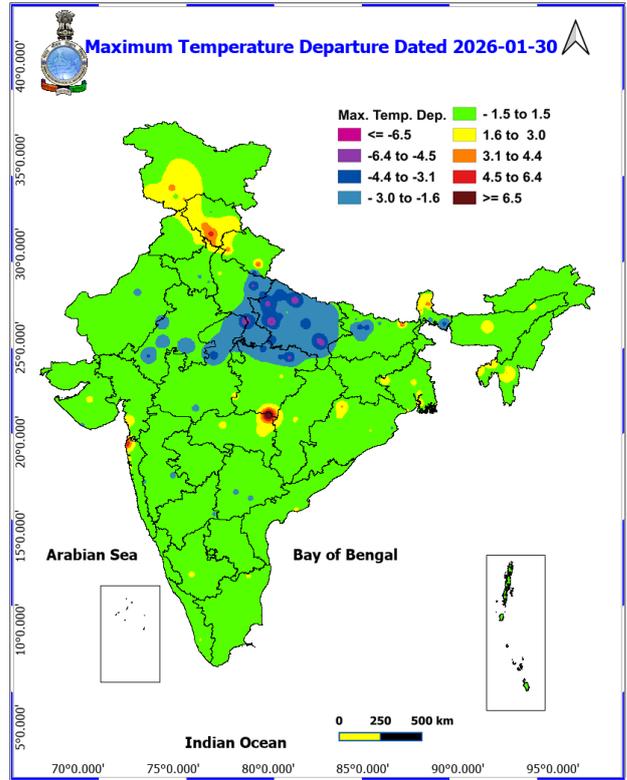
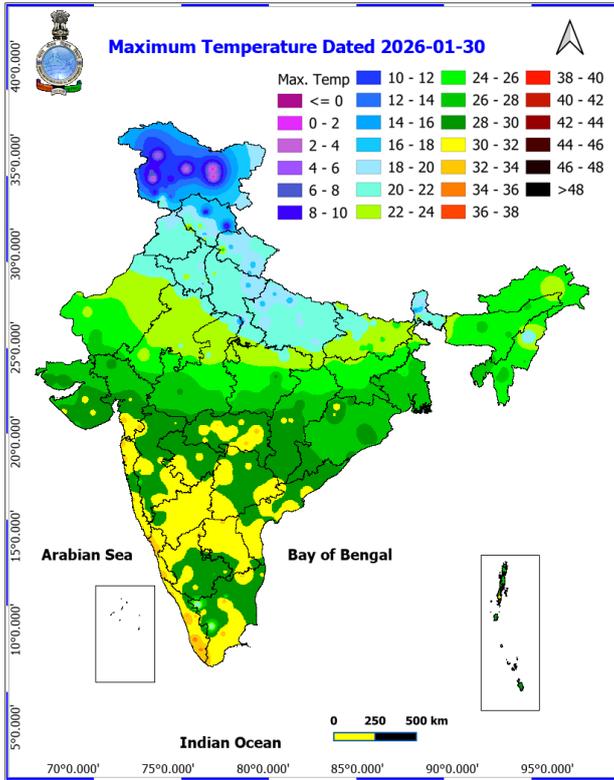
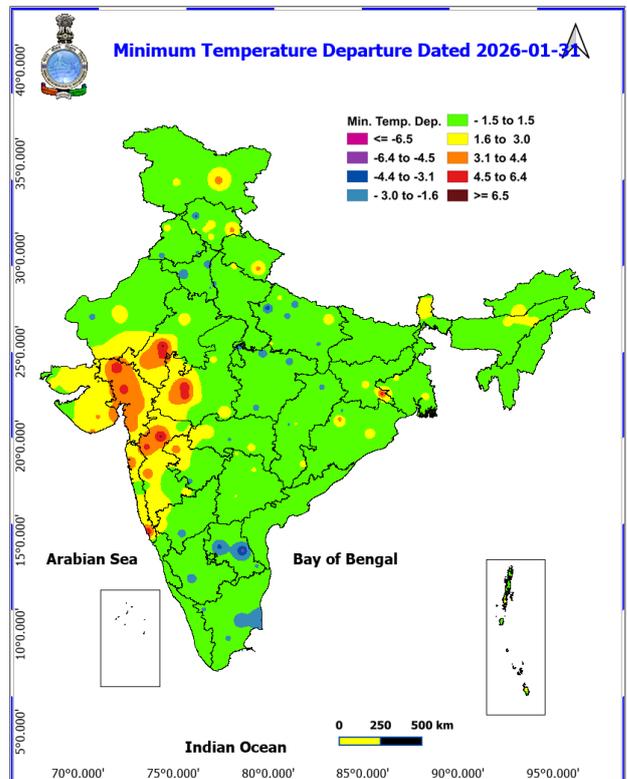
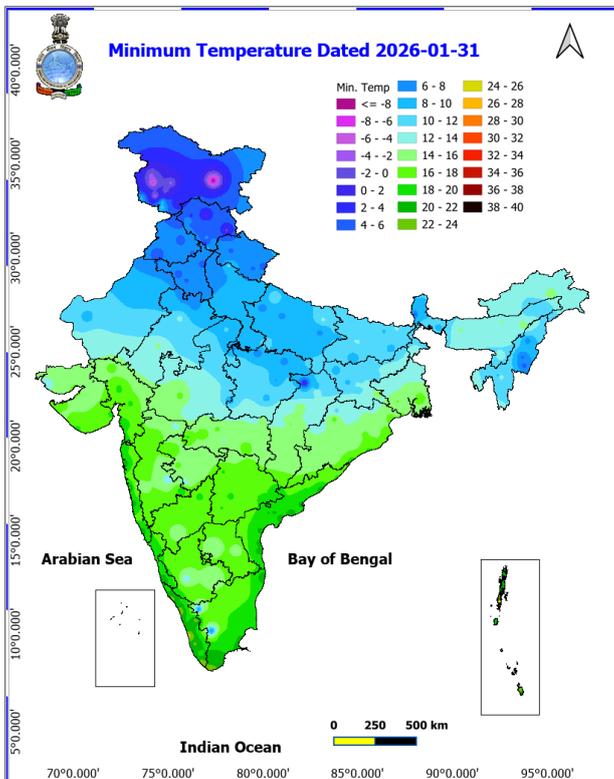


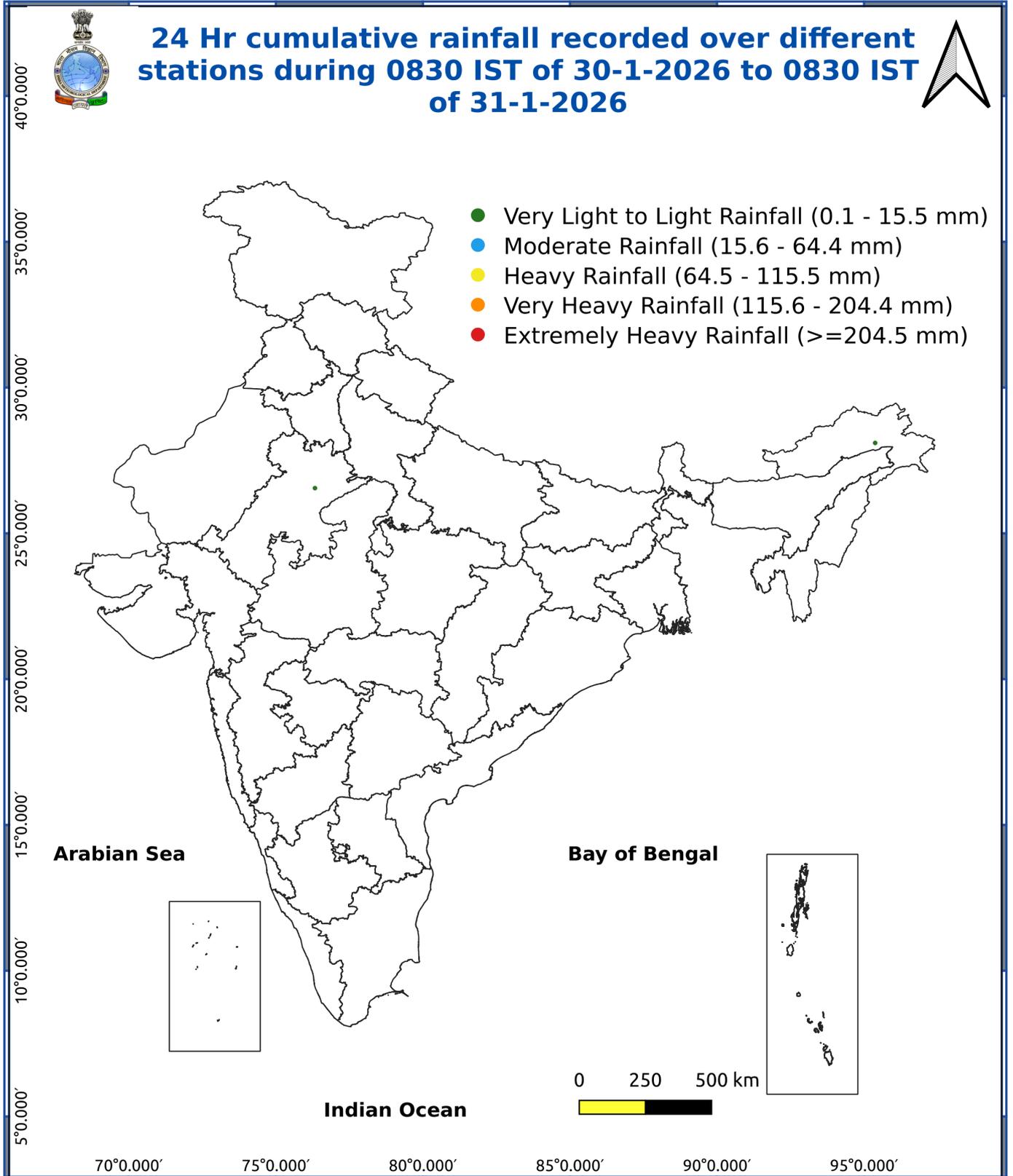
Fig. 3: Minimum Temperatures Dated 2026-01-31

Fig. 4: Departure of Minimum Temp. Dated 2026-01-31



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## Impact and Actions

### Impact expected due to dense/very dense fog in the morning hours:

Likely during morning/night hours in isolated pockets over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar, Punjab, Haryana, Chandigarh, Uttar Pradesh till 01<sup>st</sup> February; Odisha till February and East Rajasthan on 04<sup>th</sup> & 5<sup>th</sup> February.

### 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.

### Impact expected and action suggested due to isolated thunderstorm with lightning/gustywinds

- Light to moderate rainfall at isolated places over Western Himalayan Region on 31<sup>st</sup> January. Scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 01<sup>st</sup> February and Uttarakhand on 01<sup>st</sup>-02<sup>nd</sup> February.
- **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Punjab and Haryana Chandigarh on 01<sup>st</sup> February and Uttar Pradesh & Madhya Pradesh during 01<sup>st</sup> -03<sup>rd</sup> February; East Rajasthan during 31<sup>st</sup> January -02<sup>nd</sup> February.
- **Isolated Hailstorm activity also likely** over East Rajasthan on 31<sup>st</sup> January-01<sup>st</sup> February and over West Madhya Pradesh on 01<sup>st</sup> February, 2026.

### Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

### Action suggested:

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- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

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

**Cold day** conditions likely in isolated pockets over West Uttar Pradesh on 31<sup>st</sup> and East Uttar Pradesh on 31<sup>st</sup> January & 01<sup>st</sup> February.

- 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

#### Agromet advisories for various parts of the country

##### Agromet advisories for likely impact of Hailstorm

Use hail nets to protect orchards and vegetable plants in West Madhya Pradesh and East Rajasthan.

##### 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

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Keep the animals inside the shed during Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

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**Legends & abbreviations:**

**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.
- **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.

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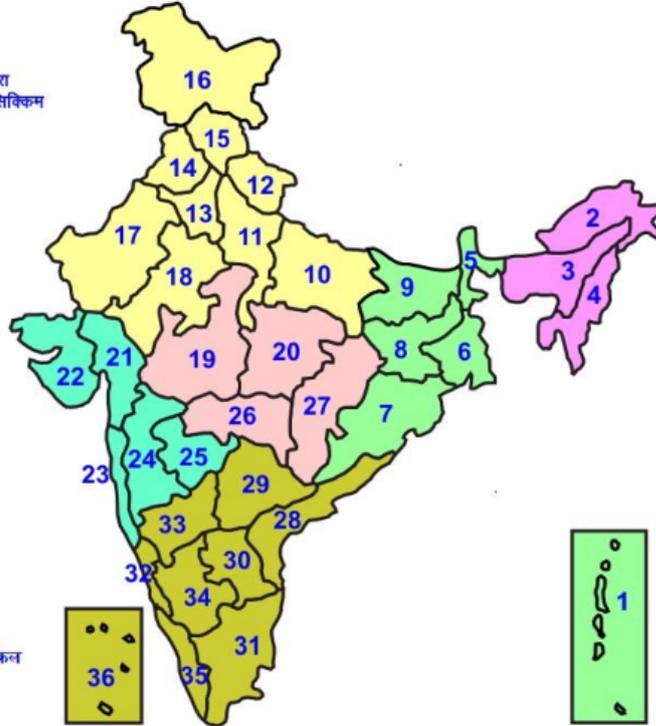
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## LEGENDS

- 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 बांगाल
- 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"

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

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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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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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