

2026-02-22

Time of Issue: 13:42:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Systems, Forecast and Warnings

- **Heavy rainfall** likely at isolated places over south Tamil Nadu and south Kerala on 22<sup>nd</sup> February.
- **Scattered to fairly widespread** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Andaman & Nicobar Islands during 23<sup>rd</sup>-26<sup>th</sup> and Kerala & Mahe on 22<sup>nd</sup> February.
- **Isolated** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Odisha on 23<sup>rd</sup> & 24<sup>th</sup>; with **thunderstorm & lightning** likely over Arunachal Pradesh on 22<sup>nd</sup>; East Madhya Pradesh, Vidarbha, Chhattisgarh on 23<sup>rd</sup>; Assam & Meghalaya, Gangetic West Bengal and Telangana on 23<sup>rd</sup> & 24<sup>th</sup> February.
- **Isolated** rainfall/snowfall likely over Himachal Pradesh on 23<sup>rd</sup> and Uttarakhand on 23<sup>rd</sup> & 24<sup>th</sup> February.

#### Forecast of maximum temperatures:

- Gradual rise in maximum temperature by 3-4°C likely over Northwest India during next 7 days.
- No significant change in maximum temperatures likely over rest parts of the country.

\*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 Kerala & Mahe; **at isolated places** over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, West Madhya Pradesh, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, North Interior Karnataka and South Interior Karnataka; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Kerala & Mahe**: Cherthala (dist Alapuzha) 9; Kanjirappally (dist Kottayam), Chalakudi (dist Thrissur) 8 Each; Kayamkulam ARG (dist Alapuzha), Thycattussery AWS (dist Alapuzha), Vaikom AWS (dist Kottayam), Ernakulam South (dist Ernakulam) 7 Each; Vaikom (dist Kottayam), Konni (dist Pathanamthitta), Kunnathanam AWS (dist Pathanamthitta), Venkurinji AWS (dist Pathanamthitta), Ranni AWS (dist Pathanamthitta) 6 Each; Kumarakam (dist Kottayam), Kodungallur (dist Thrissur), Kottayam (dist Kottayam), Choondy AWS (dist Ernakulam), Kalamassery AWS (dist Ernakulam) 5 Each; Kochi IAF (dist Ernakulam), Alathur (dist Palakkad), Pirappancode AWS (dist Thiruvananthapuram), Munakkal AWS (dist Thrissur) 4 Each; Kurudamannil (dist Pathanamthitta), Vellanikkara (dist Thrissur), Pattermbi (dist Palakkad), Nooranad AWS (dist Alapuzha), Vadavathur AWS (dist Kottayam), Thennala AWS (dist Malappuram), Laha AWS (dist Pathanamthitta), Athirappalli AWS (dist Thrissur) 3 Each; **South Interior Karnataka**: Krishnarajasagara (dist Mandya) 5; **Tamil Nadu, Puducherry & Karaikal**: Kalugumalai (dist Toothukudi), Perunchani Dam (dist Kanyakumari), Nambiyar Dam (dist Tirunelveli) 5 Each; Puthan Dam (dist Kanyakumari) 4; Tirunelveli AWS (dist Tirunelveli), Chittar (dist Kanyakumari) 3 Each.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy rain** at isolated places over Kerala & Mahe.

❖ **Dense fog (visibility 50-199 m) conditions** prevailed in isolated pockets over Punjab, West Uttar Pradesh and Odisha.

❖ **Visibility Reported (In Meters <200m)**: **West Uttar Pradesh**: Sarsawa & Najibabad 50m each; **Odisha**: Kendrapara 100 m; **Punjab**: Amritsar 150m.

❖ **Minimum Temperature Departures (as on 22-02-2026)**: Minimum Temperature Departures were above normal (1.6°C to 3.1°C) over Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat State, Bihar, Chhattisgarh, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Maharashtra, some parts of South Peninsular India and near normal over rest parts of the country. The lowest minimum temperature of 8.0°C was observed at Bathinda ( Punjab) over the plains of India.

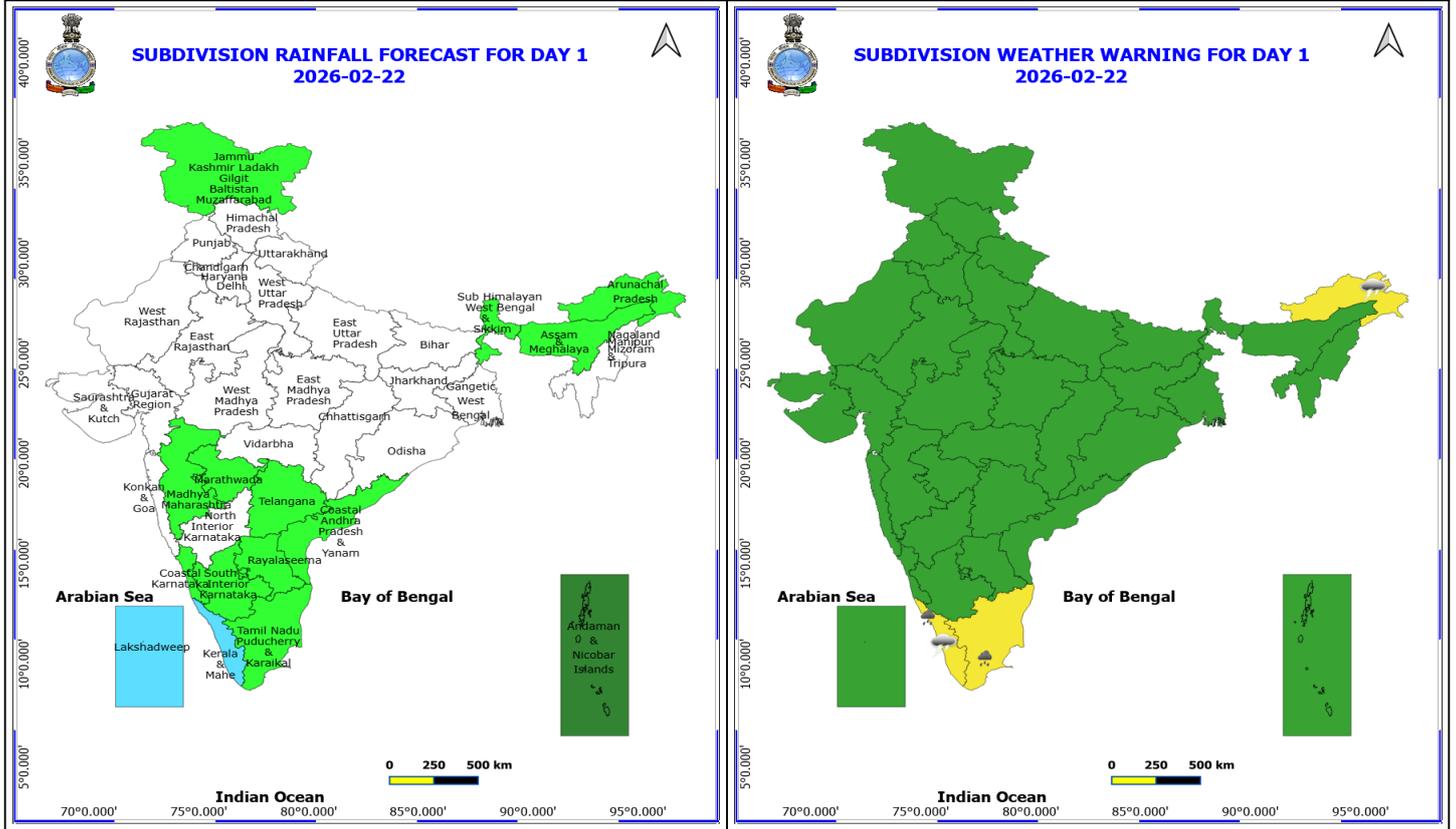
❖ **Maximum Temperature Departures (as on 21-02-2026)**: Maximum Temperatures Departures were appreciably above normal by 3-5°C over Himachal Pradesh, Uttarakhand, Punjab, north Rajasthan, Gujarat State, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; by 2-3°C over Haryana, Chandigarh & Delhi, Uttar Pradesh, remaining parts of Rajasthan, Bihar, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. The highest maximum temperature of 37.0°C is reported at KURNOOL (ANDHRA PRADESH).

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

- The **Well Marked Low Pressure Area** over southwest Bay of Bengal persists at 0830 hrs IST of today, the 22<sup>nd</sup> February, 2026. The associated cyclonic circulation extends upto 5.8 km above mean sea level. It is likely to continue to move west-northwestwards initially and then gradually recurve northeastwards over southwest Bay of Bengal during next 48 hrs.
- A **trough** runs from well marked low pressure area over southwest Bay of Bengal to south Madhya Maharashtra across central Tamil Nadu and interior Karnataka at 0.9km above mean sea level.
- An **upper air cyclonic circulation** lies over west Assam & neighbourhood at 3.1 km above mean sea level.
- An **upper air cyclonic circulation** lies over Uttarakhand and neighbourhood and extends upto 1.5 km above mean sea level.
- A feeble **trough** runs from Kashmir to Ladakh at 3.1 km above mean sea level.
- A **trough** runs in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 93°E to the north of Lat. 24°N.
- **Subtropical westerly Jet Stream** with core winds of the order of 95 knots at 12.6 km above mean sea level prevails over Northeast India.
- The **upper air cyclonic circulation** over northeast Assam extending upto 3.1 km above mean sea level has become less marked.

### Weather Outlook for subsequent 3 days

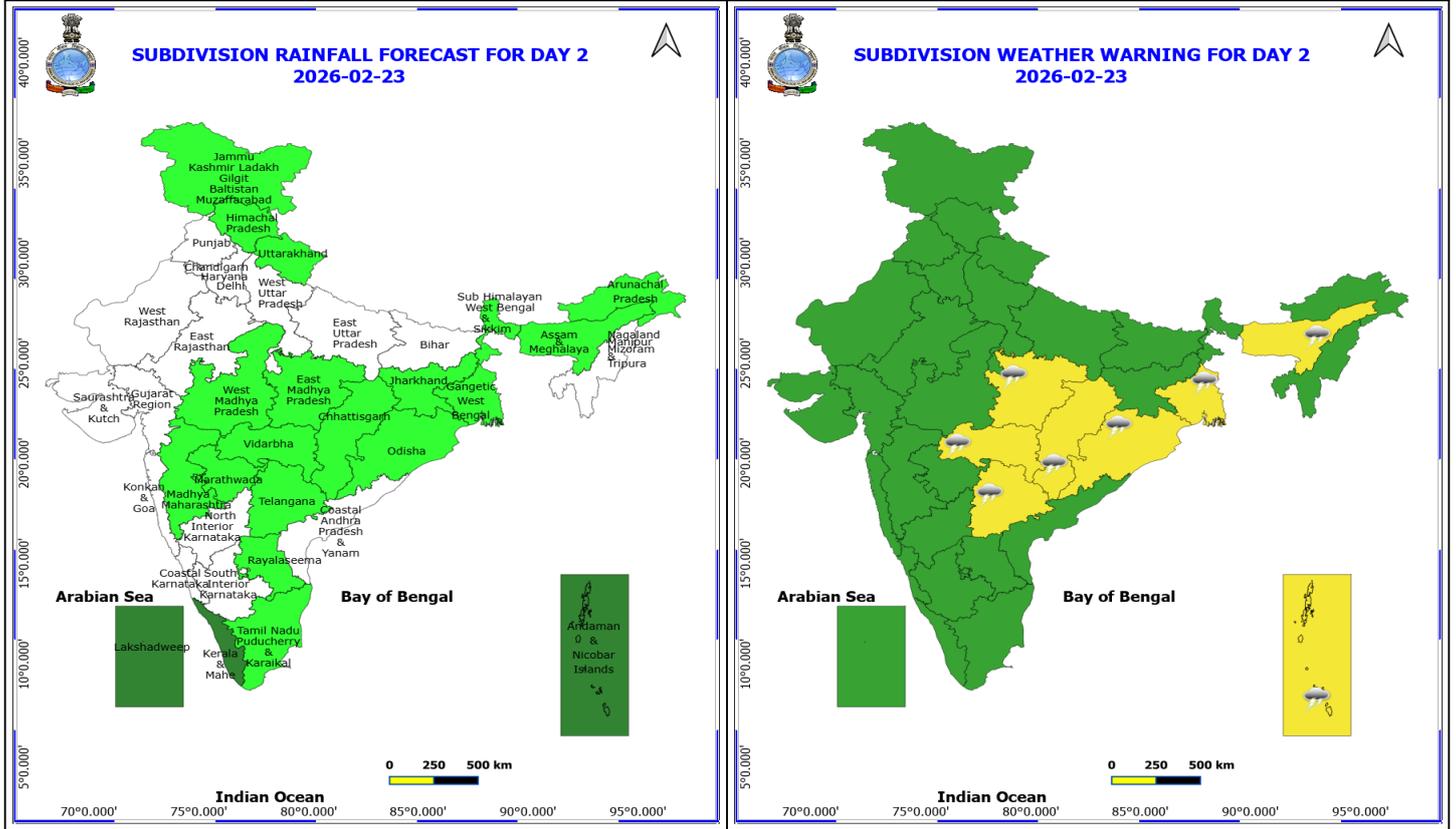
- Isolated to Scattered rainfall activity likely over Western himalayan region, Kerala & Mahe, Arunachal Pradesh and Lakshadweep.



**22 February (Day 1)**

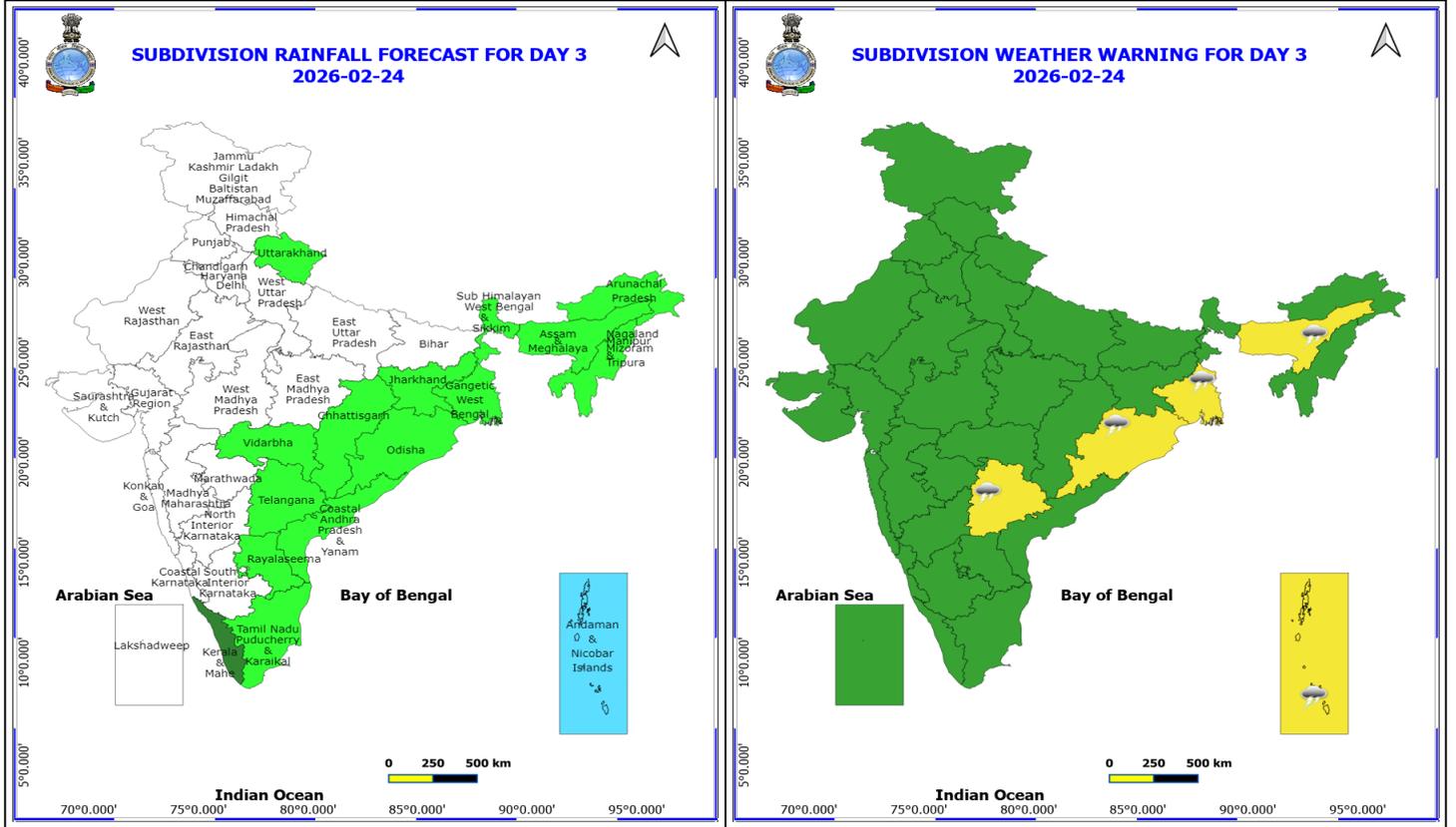
- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Kerala & Mahe.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over many parts of southwest Bay of Bengal adjoining southeast Bay of Bengal along and off Sri Lanka coasts, over Comorin area, Gulf of Mannar, along and off Kerala coast, over Lakshadweep area.

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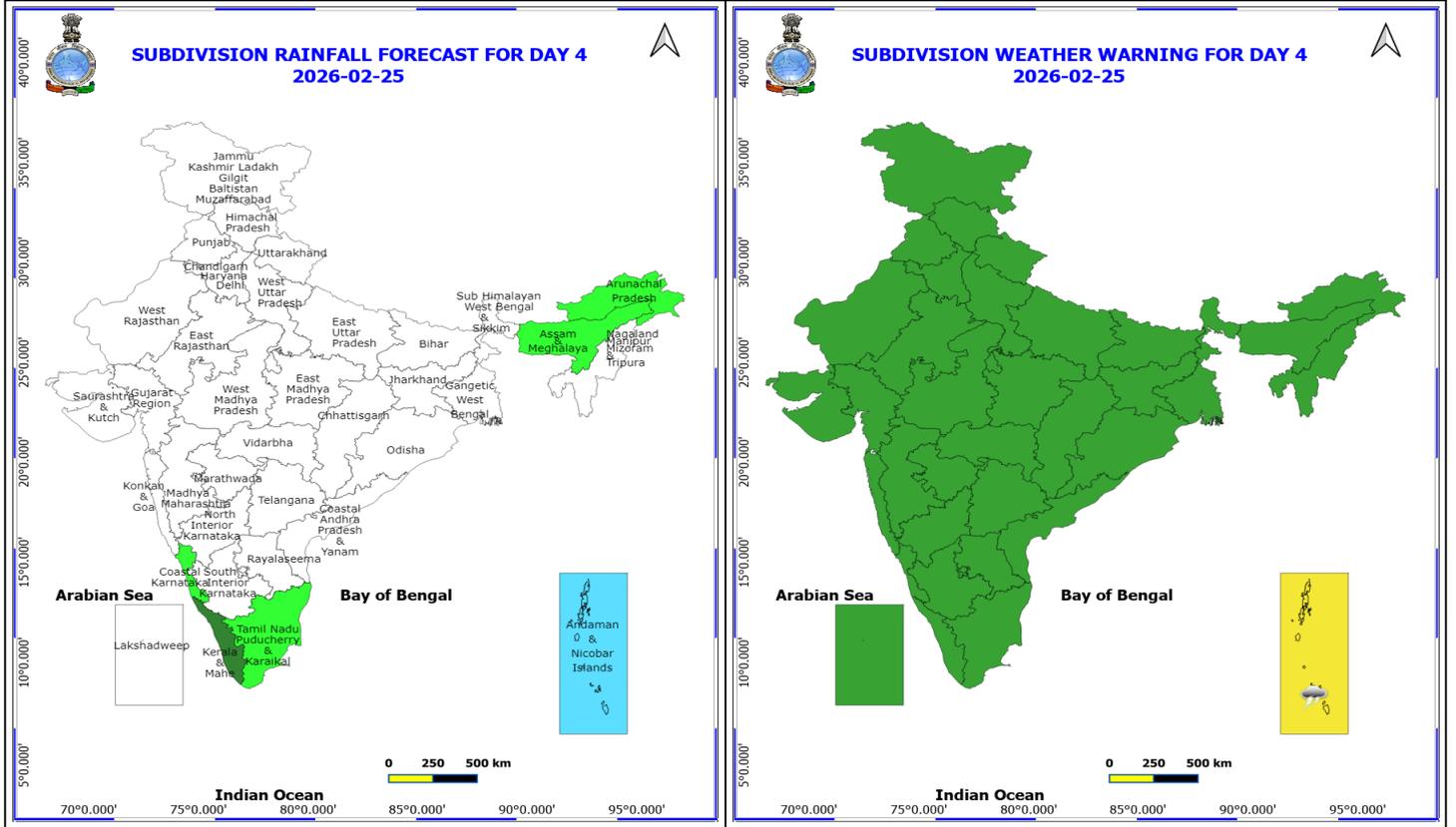
**23 February (Day 2)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh, Gangetic West Bengal, Telangana and Vidarbha.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over many parts of southwest Bay of Bengal adjoining Southeast Bay of Bengal, and adjoining Sri Lanka coasts.



**24 February (Day 3)**

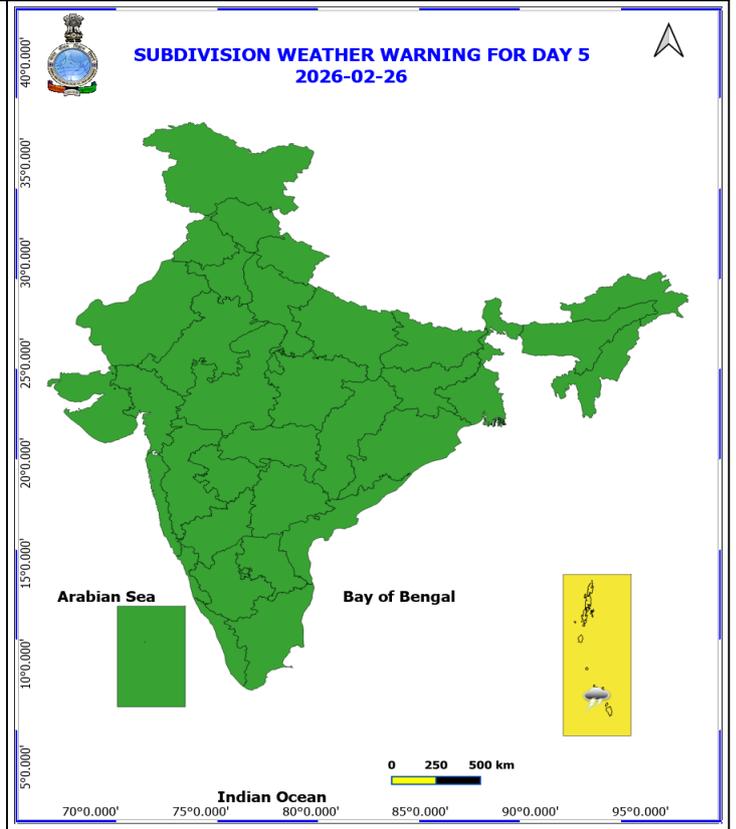
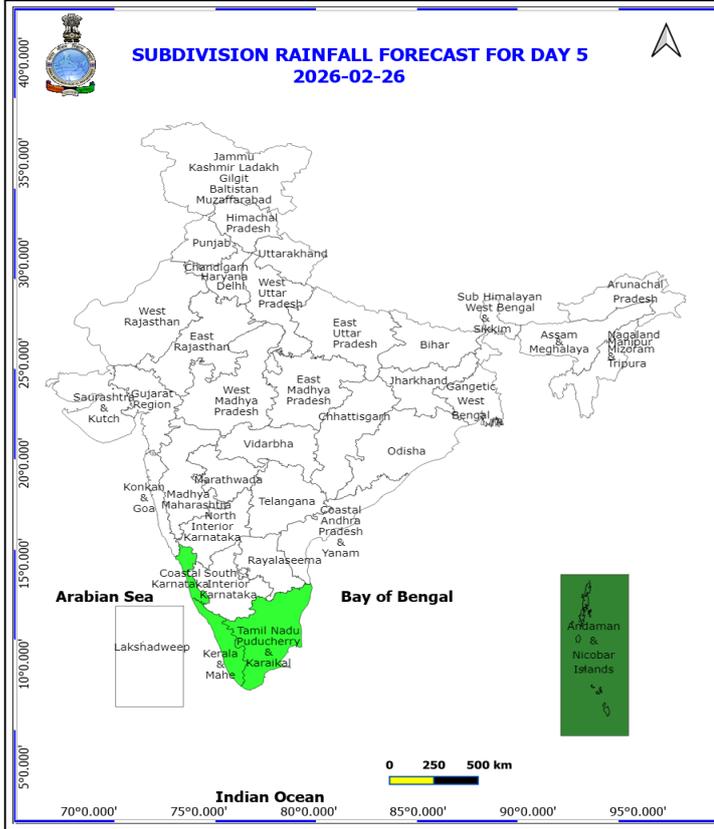
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Gangetic West Bengal and Telangana.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over central parts of south adjoining central Bay of Bengal.



**25 February (Day 4)**

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph) likely at isolated places over Andaman & Nicobar Islands.**

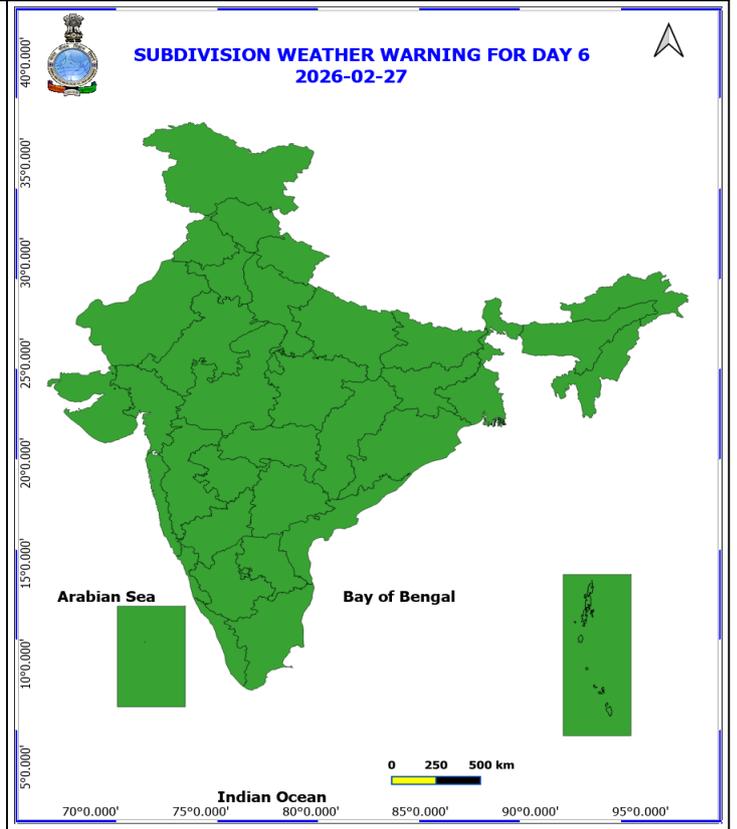
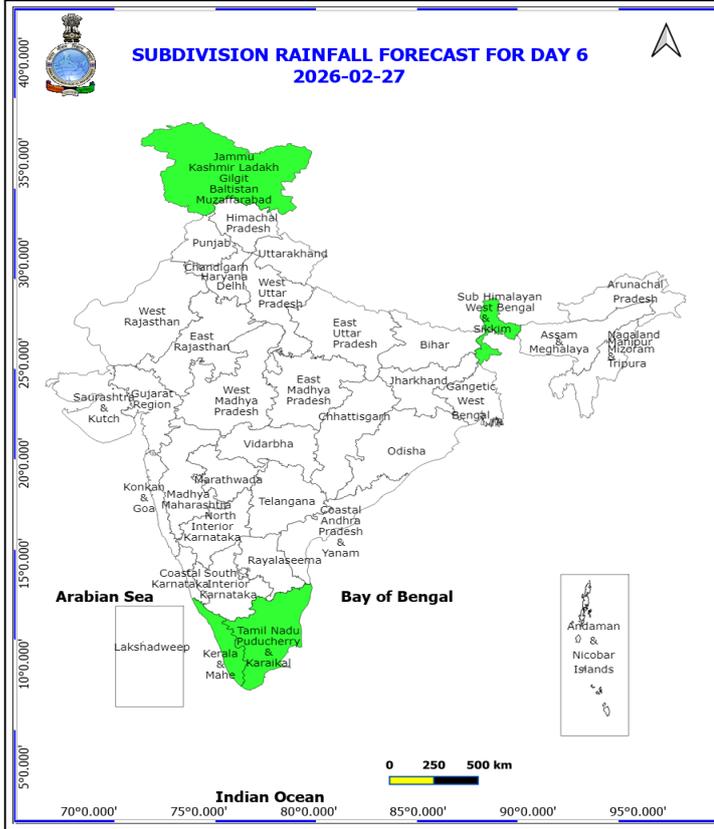
**No Fishermen Warning**



**26 February (Day 5)**

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph) likely at isolated places over Andaman & Nicobar Islands.**

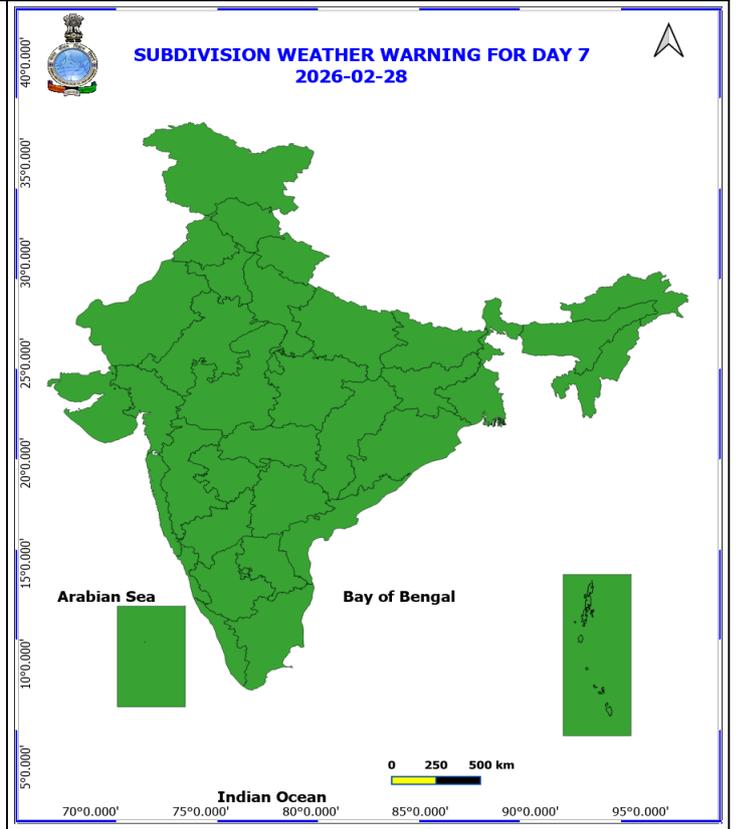
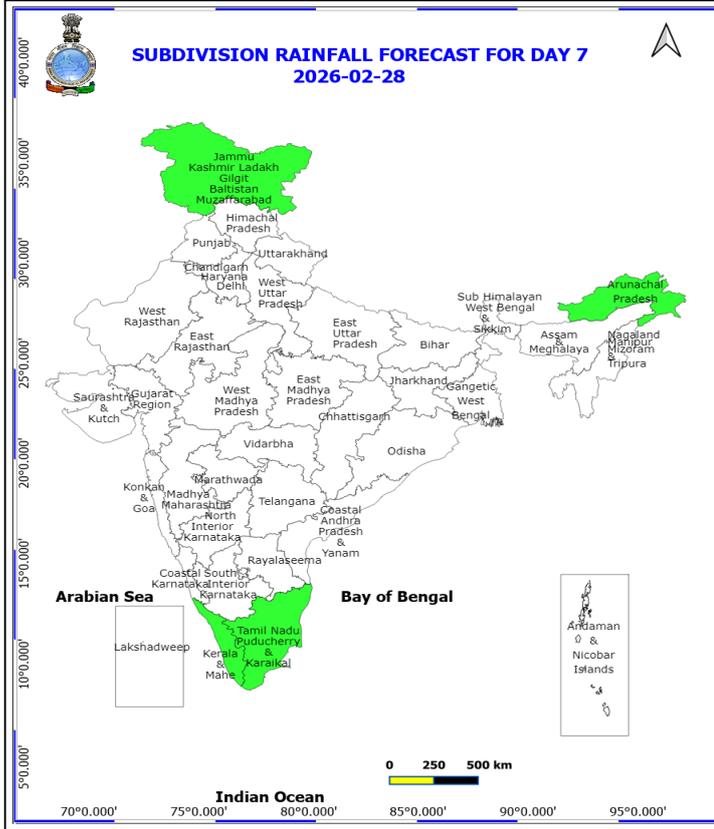
**No Fishermen Warning**



**27 February (Day 6)**

**No Warning**

**No Fishermen Warning**



**28 February (Day 7)**

**No Warning**

**No Fishermen Warning**



## Table-1

### 7 Days Rainfall Forecast

S.No.	Subdivision	22- Feb	23- Feb	24- Feb	25- Feb	26- Feb	27- Feb	28- Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	FWS	FWS	SCT	DRY	DRY
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	ISOL
3	ASSAM & MEHGHALAYA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	DRY	DRY	ISOL	DRY
6	GANGETIC WEST BENGAL	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
7	ODISHA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	DRY	ISOL	DRY	DRY	DRY	DRY
29	TELANGANA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL						
32	COSTAL KARNATAKA	ISOL	DRY	DRY	ISOL	ISOL	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	FWS	SCT	SCT	SCT	ISOL	ISOL	ISOL
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 2026-02-21

Fig. 2: Departure of Maximum Temp. Dated 2026-02-21

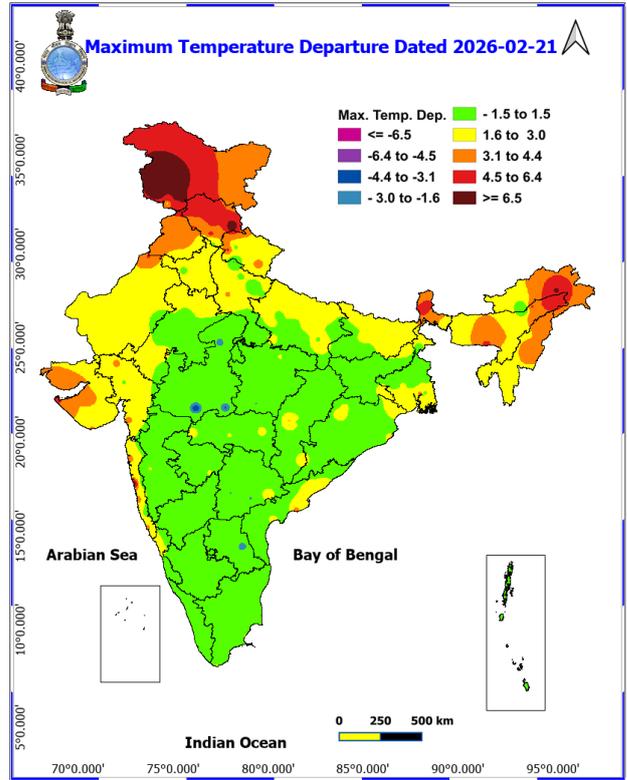
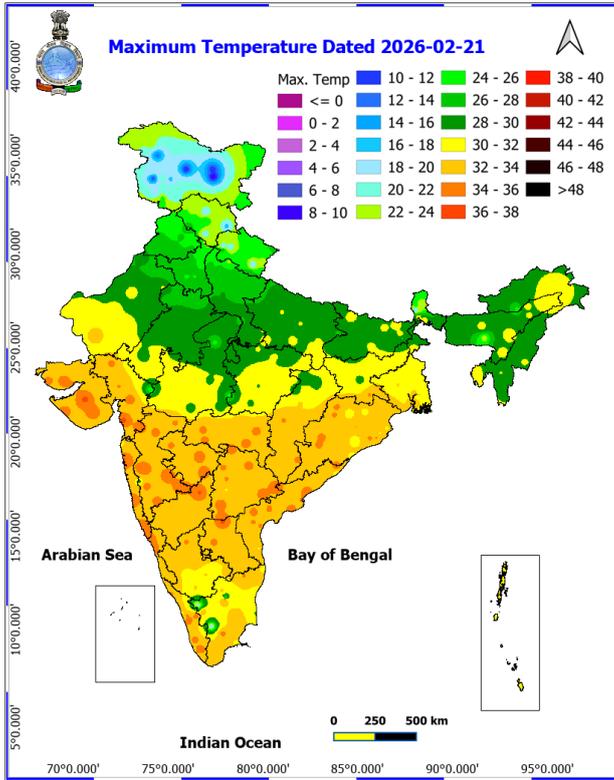
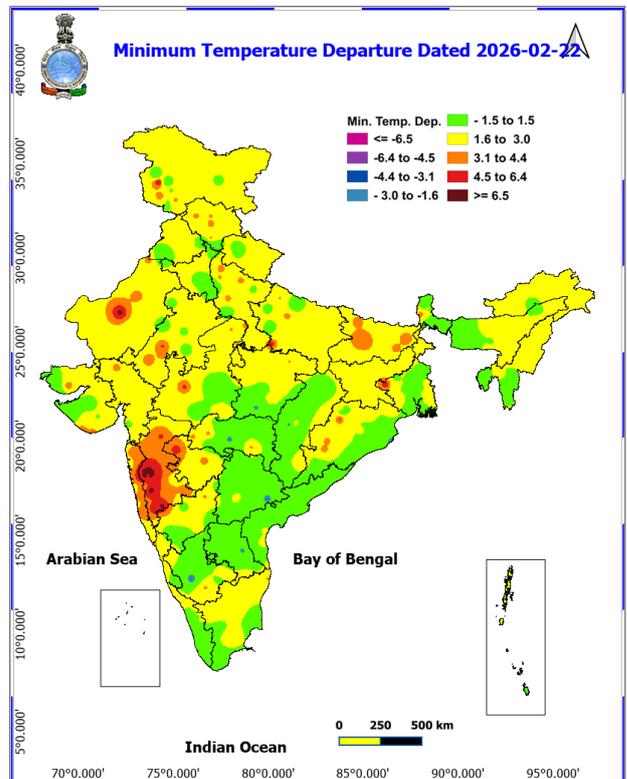
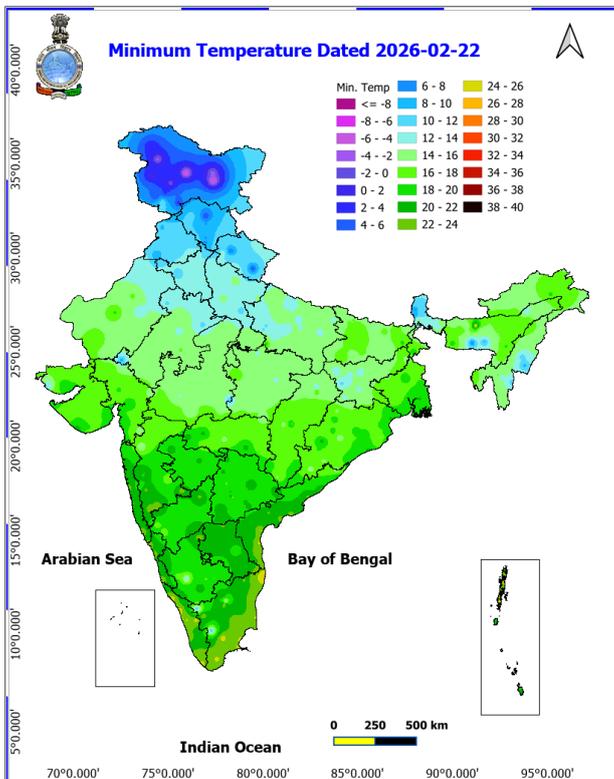
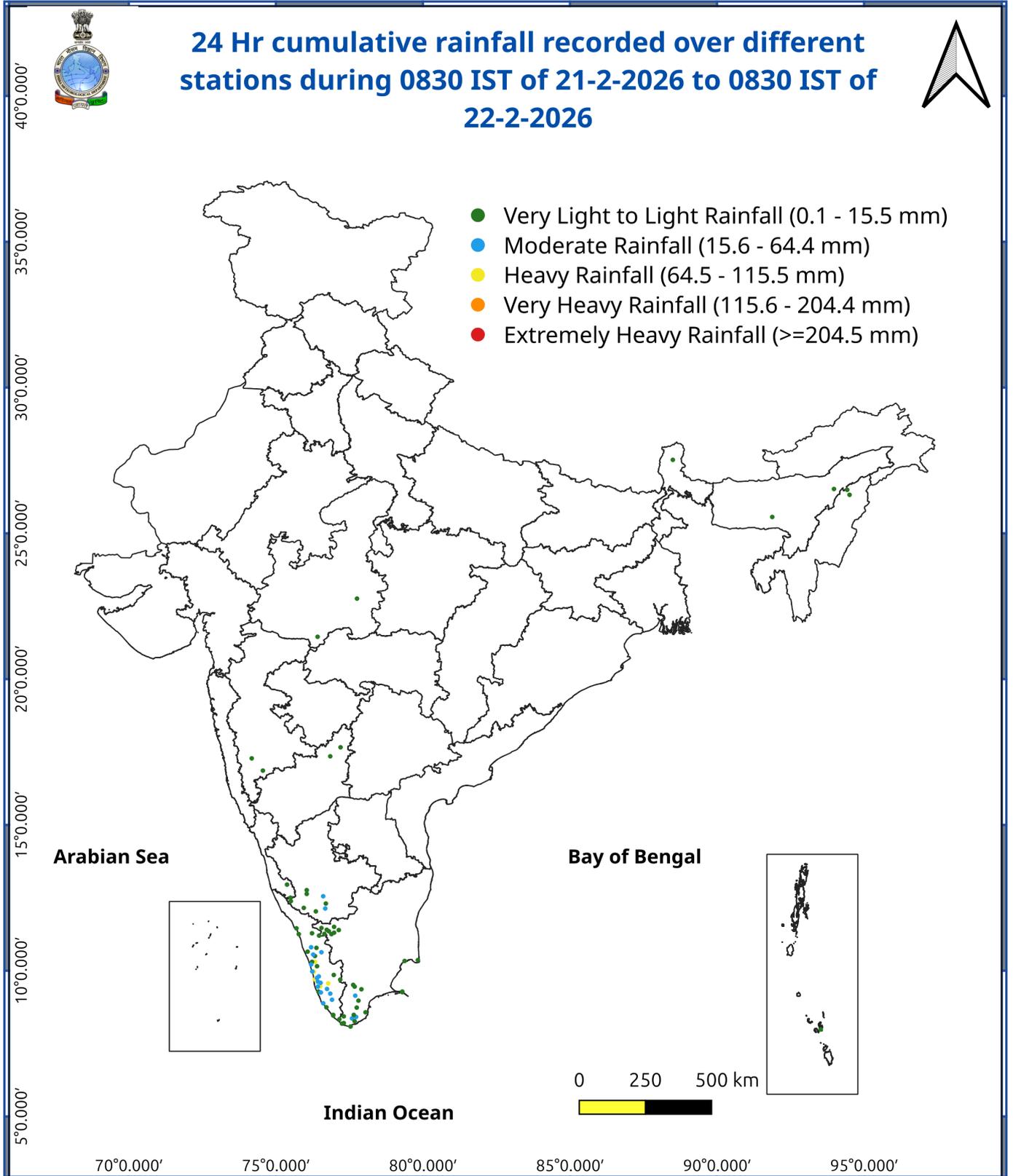


Fig. 3: Minimum Temperatures Dated 2026-02-22

Fig. 4: Departure of Minimum Temp. Dated 2026-02-22



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### Agromet advisories for various parts of the country

#### Agromet advisories for likely impact of Heavy Rainfall

- In **South Tamilnadu** and **South Kerala**, keep the harvested paddy produce in safer places. Ensure proper drainage to drain out excess water, and strengthen field bunds in paddy and low-lying vegetable fields to avoid water stagnation. Provide staking in banana and support to vegetables in pandals.

#### 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.

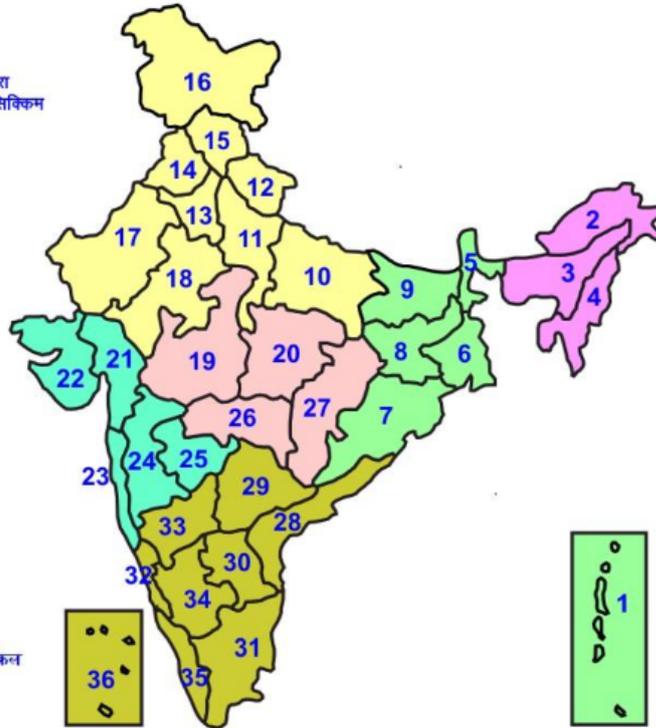
#### Legends & abbreviations:

#### 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.

## 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              |                 |                      |                    |

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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)

\*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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