

2026-02-28

Time of Issue: 13:30:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Systems, Forecast and Warnings

- **Isolated to scattered** light/moderate rainfall with **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu on 28<sup>th</sup>, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe on 28<sup>th</sup> February and 01<sup>st</sup> March.
- **Isolated light** rainfall/snowfall likely over Jammu Kashmir during 04<sup>th</sup>-06<sup>th</sup> March.
- **Strong surface winds (speed reaching 20-30 kmph)** very likely over Assam & Meghalaya during 28<sup>th</sup> February-02<sup>nd</sup> March; Haryana, Punjab, Uttar Pradesh during 01<sup>st</sup> -04<sup>th</sup> March.

#### Hot & Humid weather Warnings:

- **Hot & humid conditions** very likely to prevail in isolated pockets over Konkan & Goa, Gujarat State during 04<sup>th</sup>-06<sup>th</sup> March.

#### Forecast of maximum temperatures:

- Gradual rise in maximum temperature by 2-4°C likely over plains of Northwest and Central India during next 5 days and no significant change thereafter. Hence, **maximum temperatures are likely to be above normal by 3-5°C over many parts of Northwest India during the week.**
- Gradual rise in maximum temperature by 2-3°C likely over plains of East India during next 3 days and no significant change thereafter.
- Gradual rise in maximum temperature by 3-4°C likely over Maharashtra during next 5 days and no significant change during subsequent 2 days.
- No significant change in maximum temperature likely over Gujarat State during next 24 hours and gradual rise by 3-5°C during subsequent 6 days.
- No significant change in maximum temperature likely over Northeast India during next 2 days and gradual rise by 3-4°C during subsequent 5 days.
- No significant change in maximum temperature likely over north Peninsular India during next 4 days and gradual rise by 2-3°C during subsequent 3 days.

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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 Arunachal Pradesh; **at a few places** over Andaman & Nicobar Islands; **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Tamil Nadu, Puducherry & Karaikal, 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:** Watrap (dist Virudhunagar) 6; Sothuparai (dist Theni) 4; Valparai Taluk Office (dist Coimbatore), Valparai Pap (dist Coimbatore) 3 Each; Mylaudy (dist Kanyakumari), Thuckalay (dist Kanyakumari) 2 Each; Chinnakalar (dist Coimbatore), Kuzhithurai (dist Kanyakumari), Kottaram (dist Kanyakumari), Thirupathisaram AWS (dist Kanyakumari), Cincona (dist Coimbatore), Tnau Coimbatore (dist Coimbatore), Mambzhathuraiyaru (dist Kanyakumari), Anaikedanku (dist Kanyakumari), Mukkadal Dam (dist Kanyakumari), Balamore (dist Kanyakumari), Kakkachi (dist Tirunelveli), Nalumukku (dist Tirunelveli), Oothu (dist Tirunelveli) 1 Each; **Andaman & Nicobar Islands:** Port Blair (dist South Andaman) 1; **Kerala & Mahe:** Idukki (dist Idukki) 1; **Arunachal Pradesh:** Ziro (dist Lower Subansiri), Tawang (dist Tawang) 1 Each; **Nagaland, Manipur, Mizoram & Tripura:** Mokokchang (dist Mokokchung) 1; **Sub Himalayan West Bengal & Sikkim:** Gangtok (dist Gangtok) 1.

❖ **Dense fog (visibility 50-199 m)** conditions in isolated pockets over Sub-Himalayan West Bengal and Odisha.

❖ **Visibility Reported (In Meters ?200 m):** **Sub-Himalayan West Bengal:** Takyong (50-199m), **Odisha:** Balasore, Chandbali (50-199m).

❖ **Minimum Temperature Departures (as on 28-02-2026):** Minimum temperatures are **markedly above normal (5.1°C or more)** at many places over West Rajasthan; **at a few places** over East Rajasthan; **at isolated places** over East Uttar Pradesh, Himachal Pradesh, West Uttar Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at most places over Punjab; **at many places** over Haryana-Chandigarh-Delhi; **at a few places** over Arunachal Pradesh, East Madhya Pradesh, Gujarat Region; **at isolated places** over Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Jammu & Kashmir, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim, Telangana, Vidarbha, West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Bihar, Marathwada, South Interior Karnataka; **at a few places** over Rayalaseema; **at isolated places** over Kerala & Mahe, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka, Odisha, Tamil Nadu, Puducherry & Karaikal, Uttarakhand. Minimum temperatures were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Bihar, Odisha; **below normal (-3.0°C to -1.6°C)** at a few places over Coastal Karnataka, Gangetic West Bengal, Jharkhand, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Konkan & Goa, Madhya Maharashtra, West Madhya Pradesh and near normal over rest part of the country. **The lowest minimum temperature of 10.0°C** was observed at **Alwar (East Rajasthan)** over the Plains of India.

❖ **Maximum Temperature Departures (as on 27-02-2026):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Jammu & Kashmir; at a few places over Haryana-Chandigarh-Delhi, West Uttar Pradesh; at isolated places over East Rajasthan, Himachal Pradesh, Punjab, West Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Arunachal Pradesh, Uttarakhand; at isolated places over Bihar, Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, East Uttar Pradesh, Odisha, Saurashtra & Kutch, West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over Lakshadweep; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Vidarbha. Maximum temperatures were **markedly below normal (-5.1°C or less)** at a few places over Arunachal Pradesh; at isolated places over Tamil Nadu, Puducherry & Karaikal; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim, Telangana; **below normal (-3.0°C to -1.6°C)** at isolated places over Gujarat Region, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. **The highest maximum temperature of 37.1°C** is reported at ANANTAPUR (ANDHRA PRADESH), and VELLORE-OBS (TAMIL NADU).

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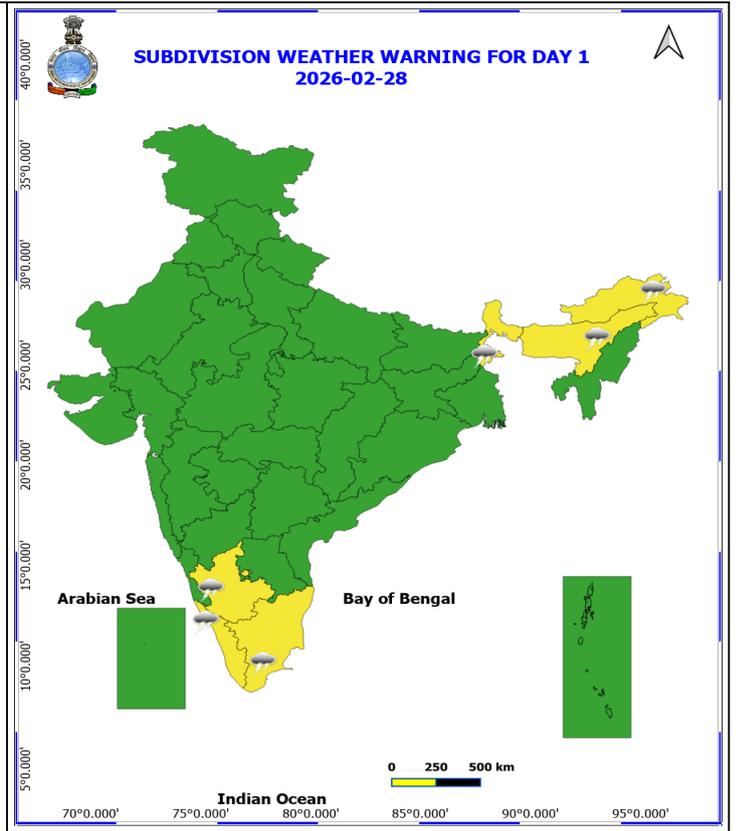
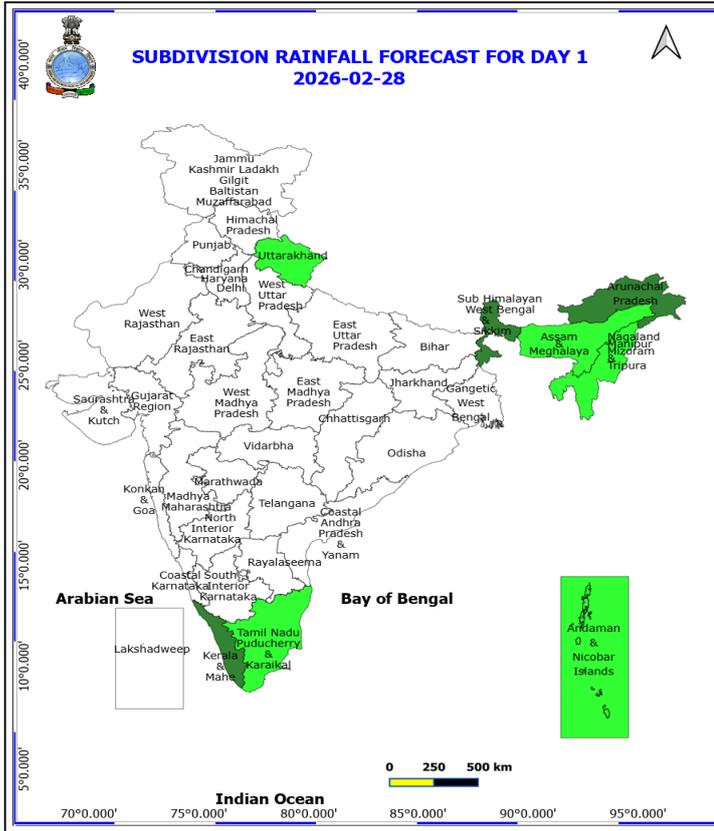
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### Meteorological Analysis (Based on 0830 hours IST)

- The **upper air cyclonic circulation** over South Interior Karnataka & neighbourhood at 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over Kerala & neighbourhood now lies over southeast Arabian Sea off south Kerala coast and extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over West Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- A **trough** runs from the above upper air cyclonic circulation over West Rajasthan & neighbourhood to Vidarbha across West Madhya Pradesh at 0.9 km above mean sea level.
- The **trough** in lower level westerlies with its axis at 1.5 km above mean sea level roughly along Long. 92°E to the north of Lat. 23°N persists.
- The **trough** from Tamil Nadu to Marathwada across Karnataka and Rayalaseema at 0.9 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 120 knots at 12.6 km above mean sea level prevails over Northwest India.
- A fresh **Western Disturbance** is likely to affect Western Himalayan region from the night of 04<sup>th</sup> March, 2026.

### Weather Outlook for subsequent 3 days

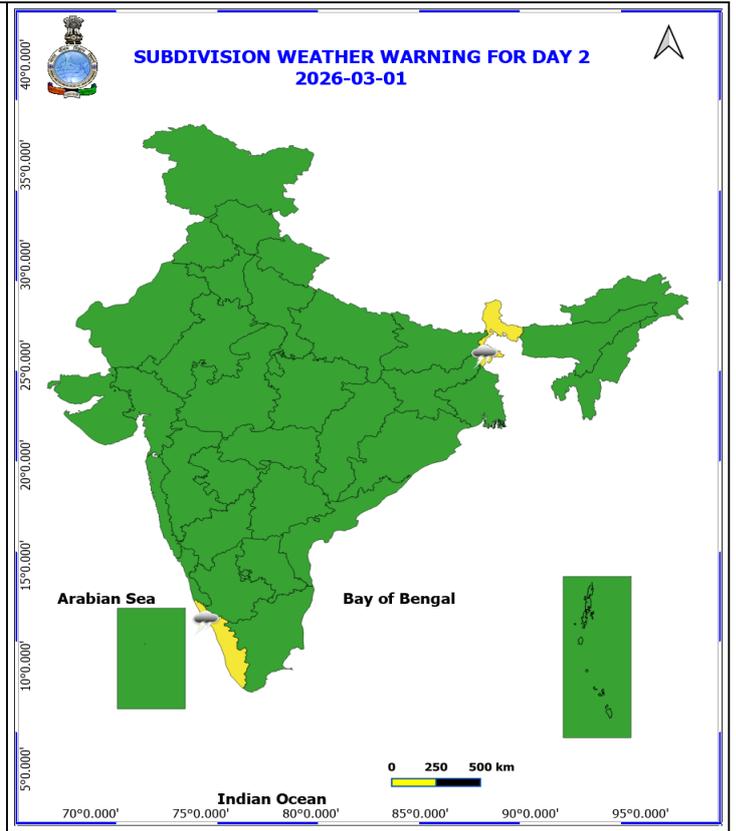
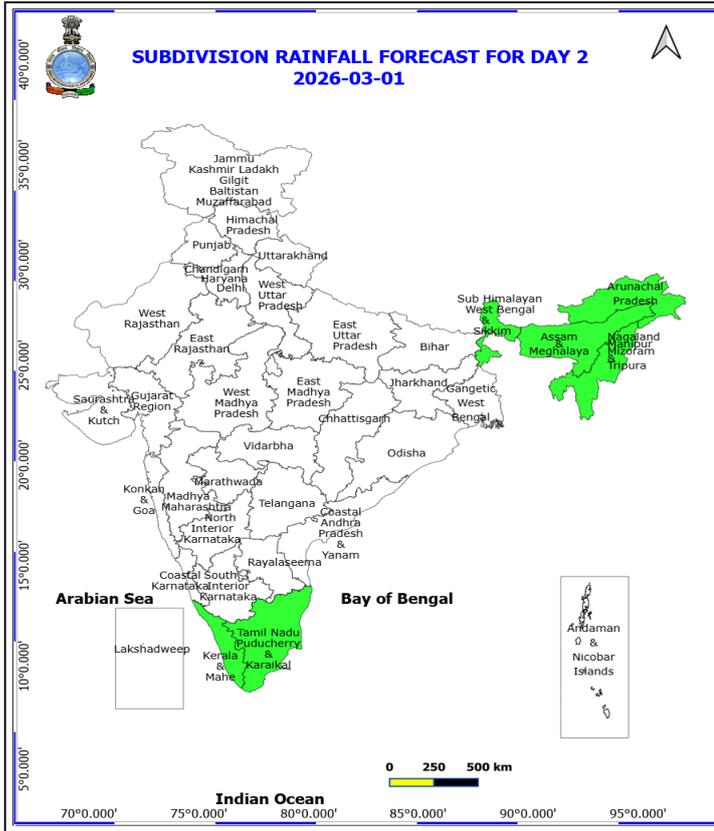
- Isolated to Scattered rainfall activity likely over Western Himalayan region, Kerala & Mahe and Sub-Himalayan West Bengal & Sikkim.
- Scattered to fairly widespread rainfall activity likely over Northeast India.



**28 February (Day 1)**

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe, Sub Himalayan West Bengal & Sikkim and Tamil Nadu Puducherry & Karaikal.

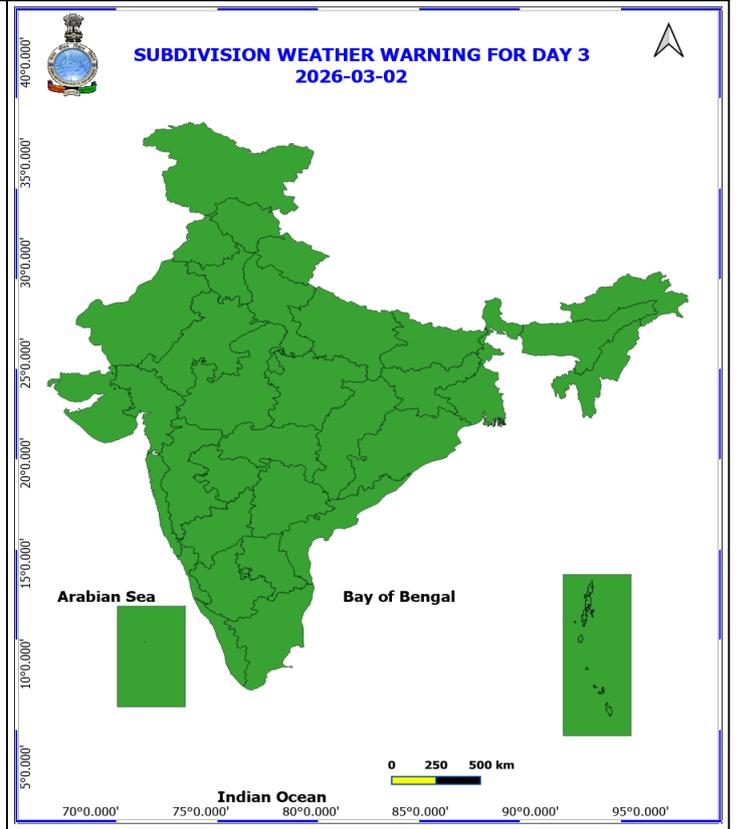
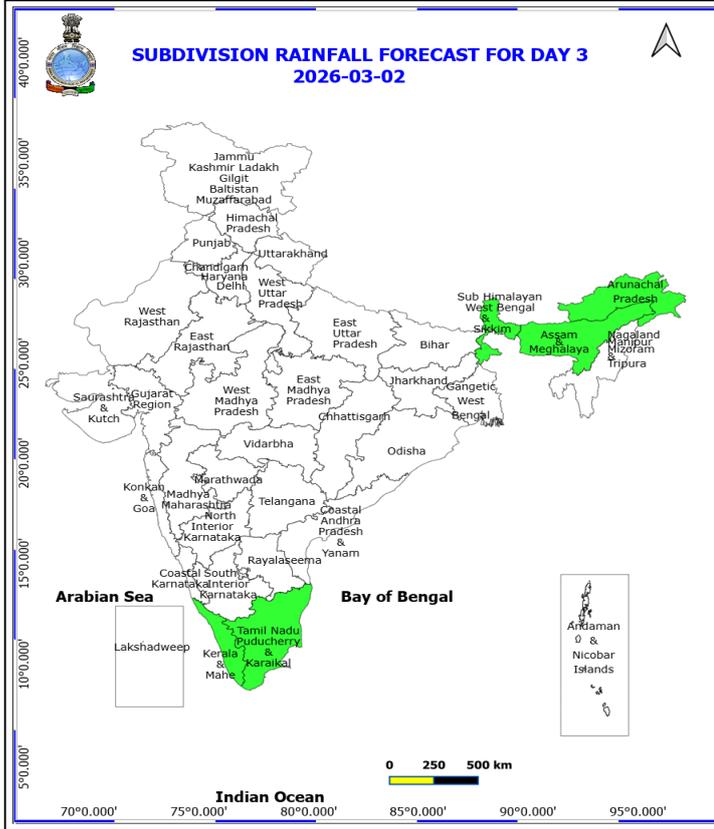
**No Fishermen Warning**



**1 March (Day 2)**

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe and Sub Himalayan West Bengal & Sikkim.

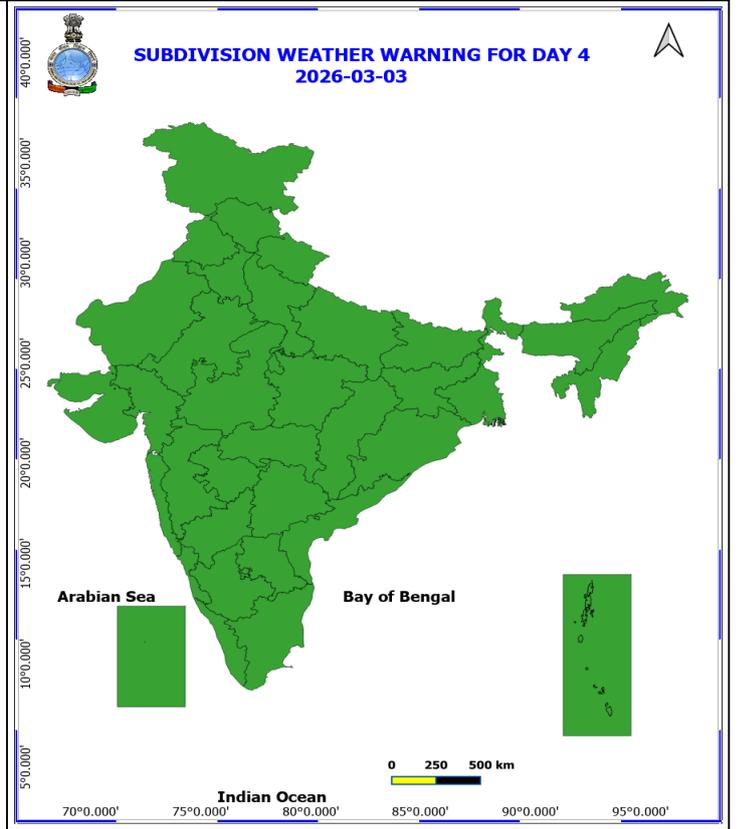
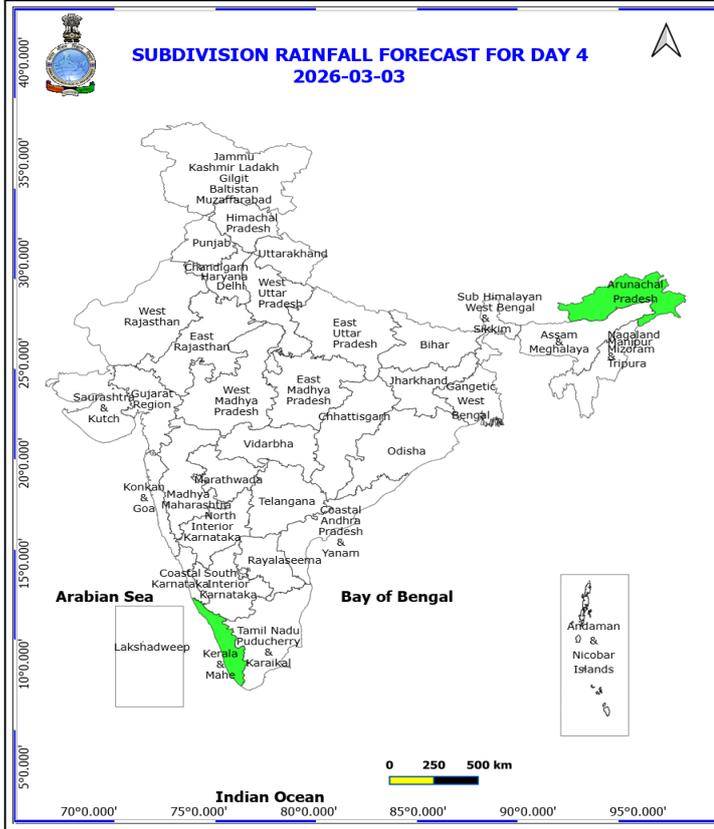
**No Fishermen Warning**



**2 March (Day 3)**

**No Warning**

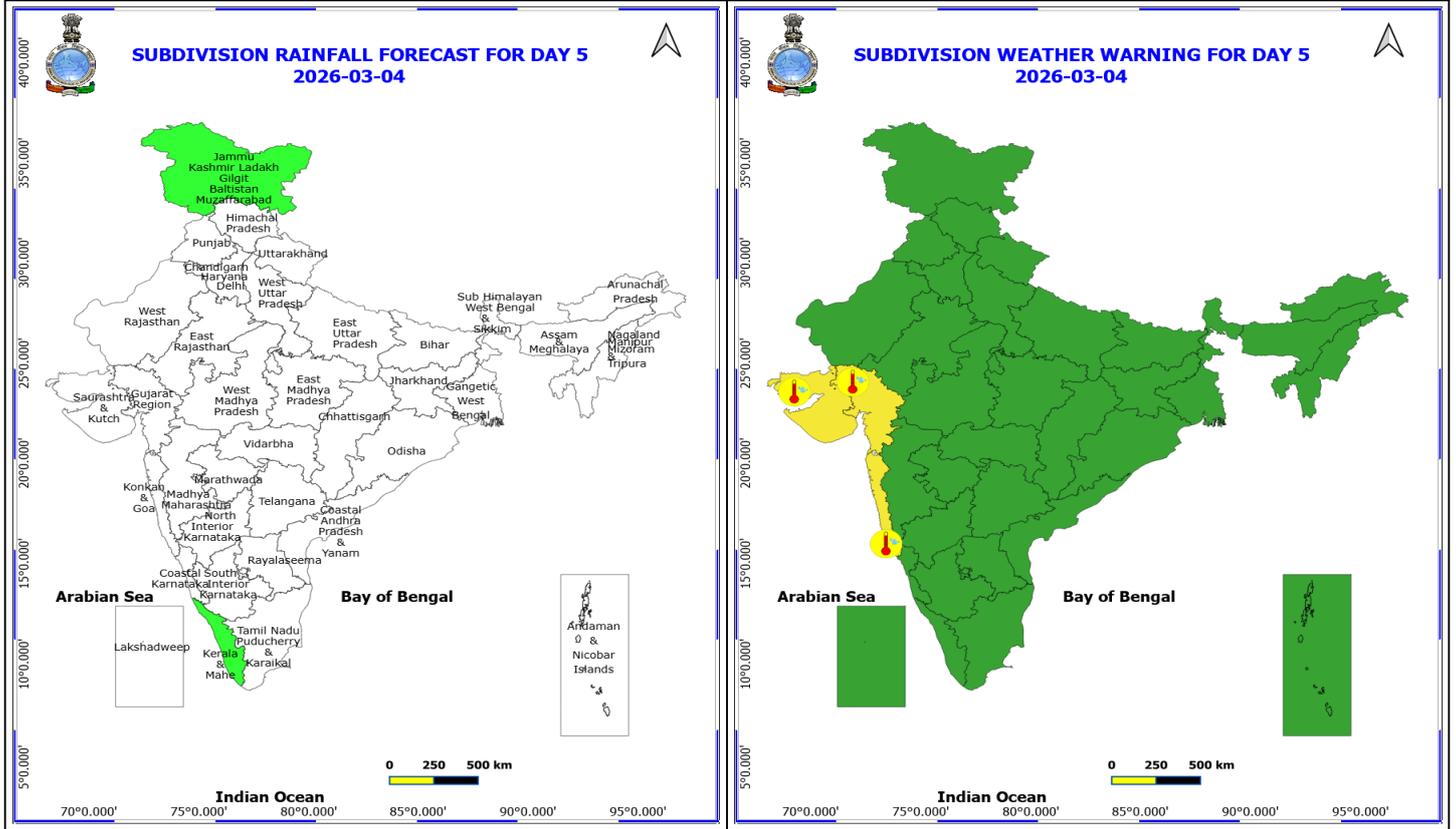
**No Fishermen Warning**



**3 March (Day 4)**

**No Warning**

**No Fishermen Warning**

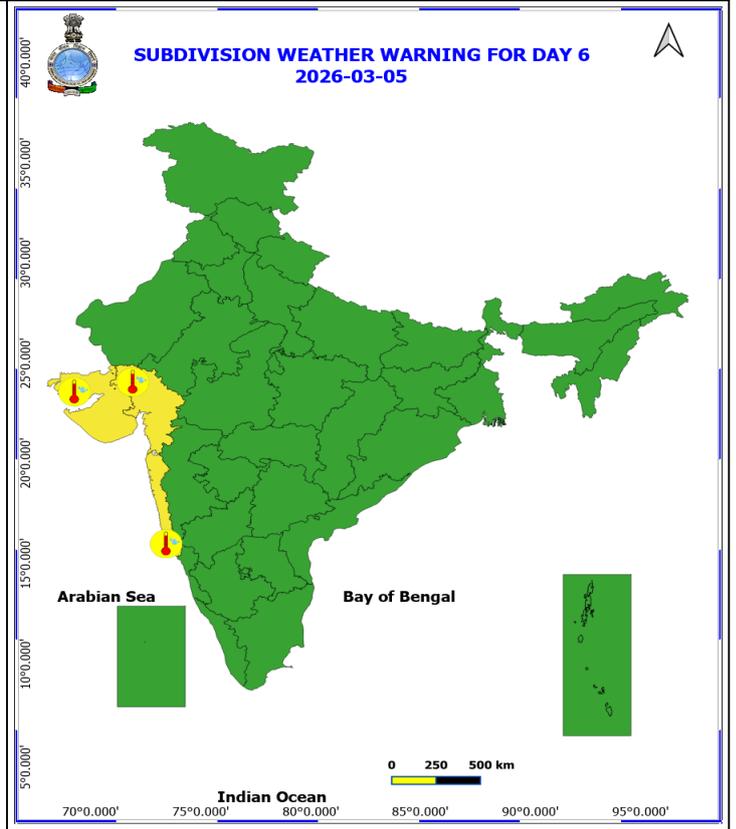
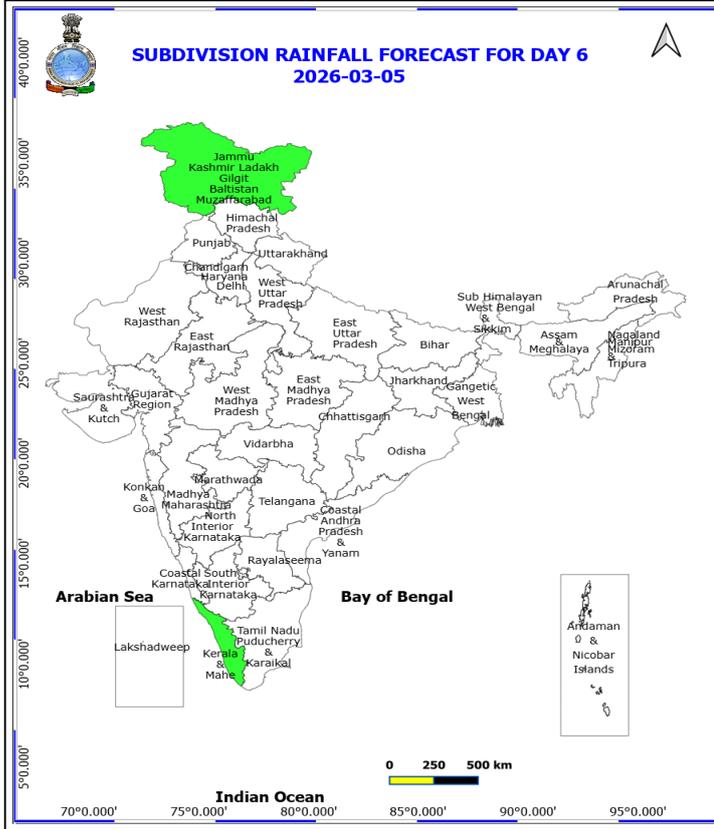


**4 March (Day 5)**

❖ Hot and Humid weather likely at isolated places over Gujarat State and Konkan & Goa.

**No Fishermen Warning**

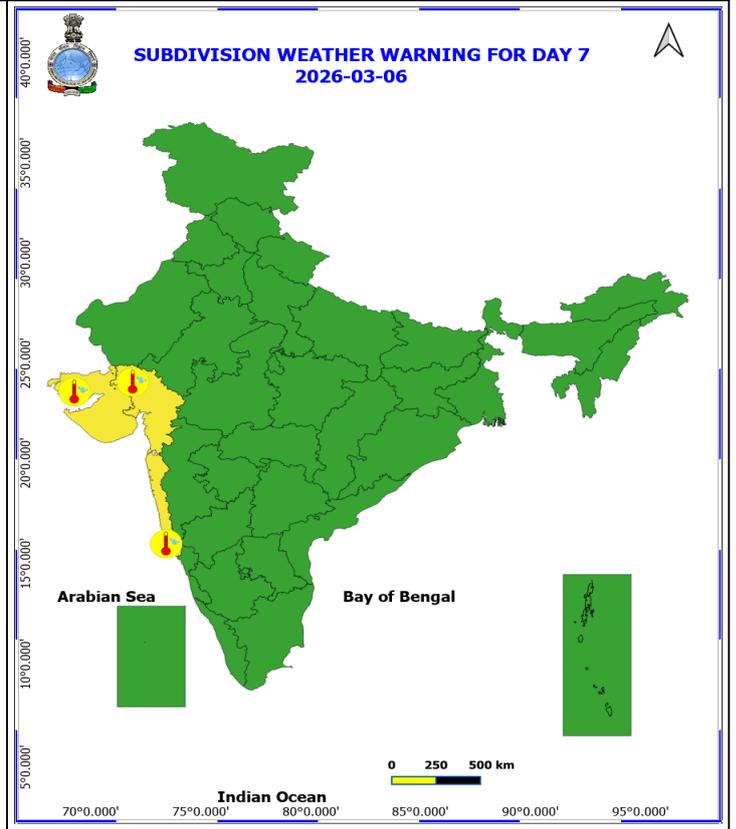
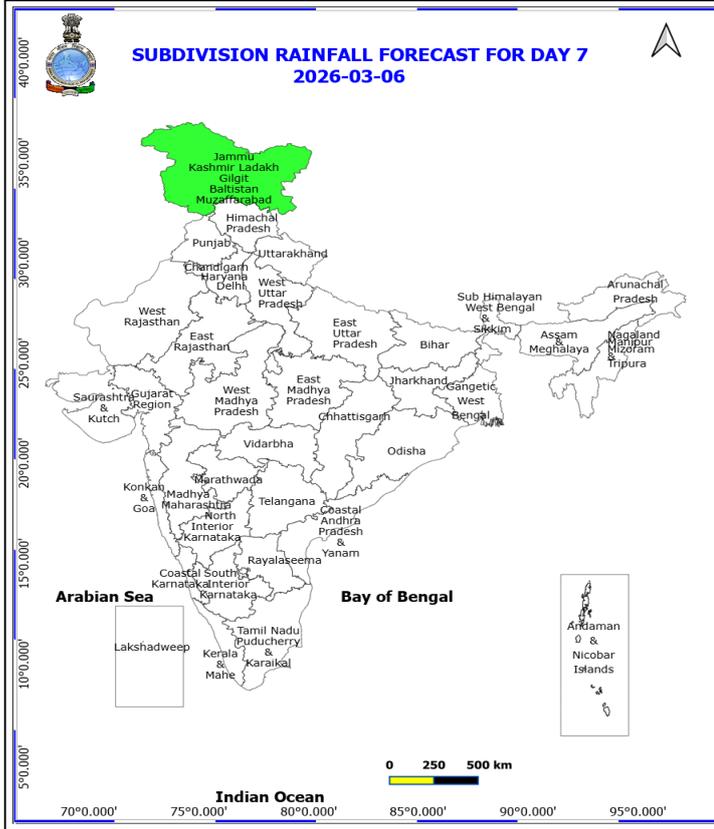
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**5 March (Day 6)**

❖ Hot and Humid weather likely at isolated places over Gujarat State and Konkan & Goa.

**No Fishermen Warning**



**6 March (Day 7)**

❖ Hot and Humid weather likely at isolated places over Gujarat State and Konkan & Goa.

**No Fishermen Warning**



**Table-1**

**7 Days Rainfall Forecast**

S.No.	Subdivision	28- Feb	1- Mar	2- Mar	3- Mar	4- Mar	5- Mar	6- Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	SCT	ISOL	ISOL	ISOL	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
4	N. M. M. & T.	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	SCT	ISOL	ISOL	DRY	DRY	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	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	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	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	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	DRY	DRY	DRY	DRY
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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
36	LAKSHDWEEP	DRY	DRY	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 2026-02-27

Fig. 2: Departure of Maximum Temp. Dated 2026-02-27

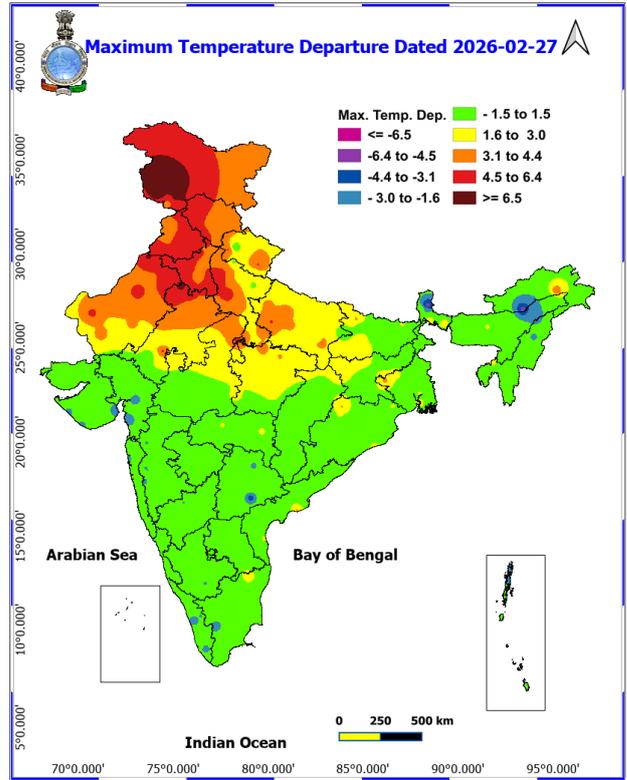
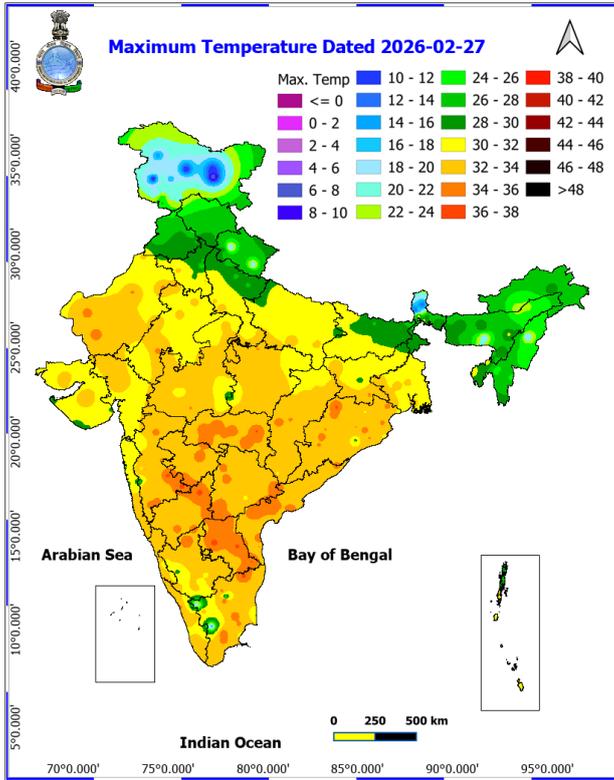
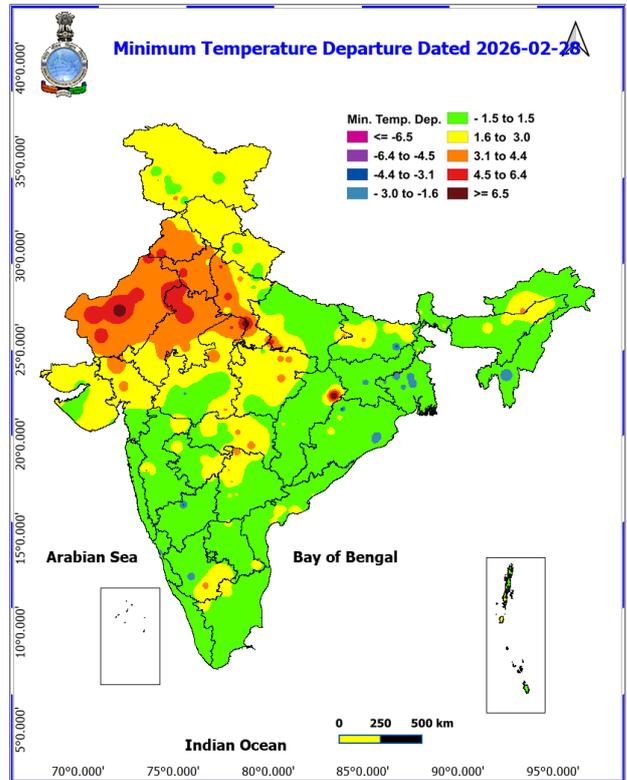
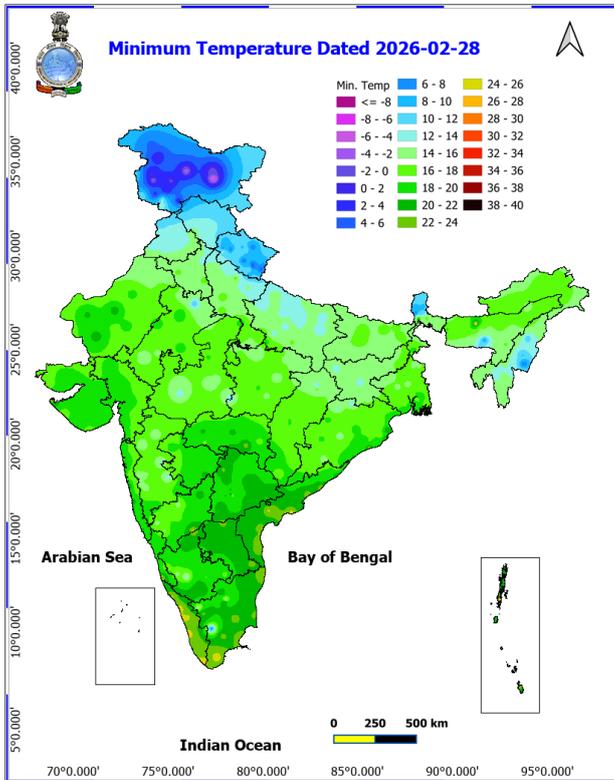


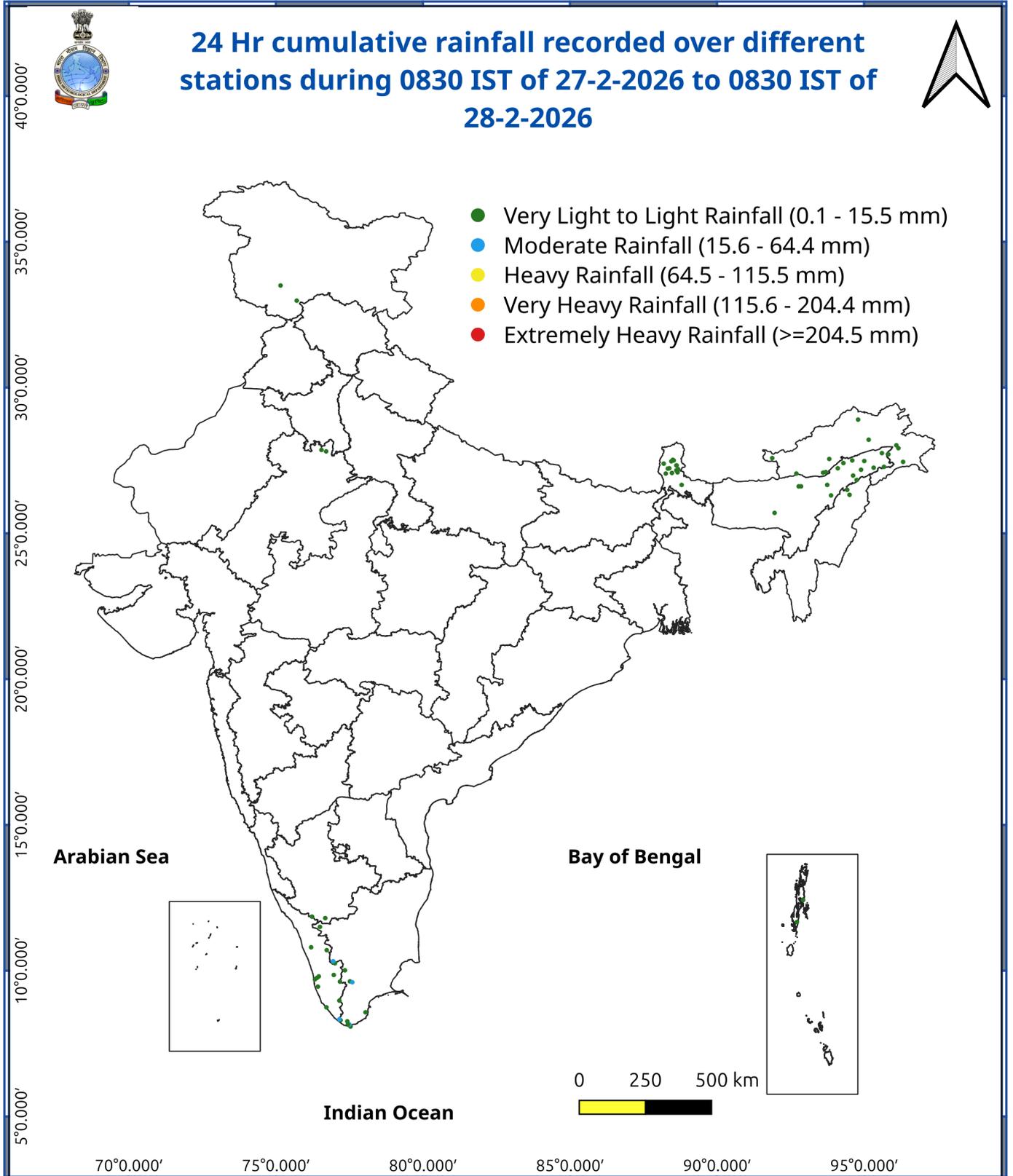
Fig. 3: Minimum Temperatures Dated 2026-02-28

Fig. 4: Departure of Minimum Temp. Dated 2026-02-28



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## Agromet advisories for various parts of the country

### Agromet advisories for likely impact of Above normal Temperatures

- In **Himachal Pradesh**, provide protective irrigation to wheat and early vegetables. Maintain ventilation in polyhouses for capsicum and tomato.
- In **Punjab**, maintain optimum soil moisture through irrigation in mustard, gobhi sarson and potato.
- In **Haryana**, provide light irrigation to mustard and gram at flowering and pod formation stages.
- In **Uttarakhand**, provide light and frequent irrigation in wheat, lentil, chickpea and mustard during critical growth stages (flowering and grain filling in wheat, pod formation in mustard and gram etc.).
- In **Western Uttar Pradesh**, provide light and frequent irrigation in wheat, mustard and chickpea, potato and early planted sugarcane.
- In **Rajasthan**, provide protective irrigation in cumin, isabgol, mustard and gram.
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

### Livestock / Poultry

- Provide clean, hygienic and plenty of drinking water to animals.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass.

### 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.

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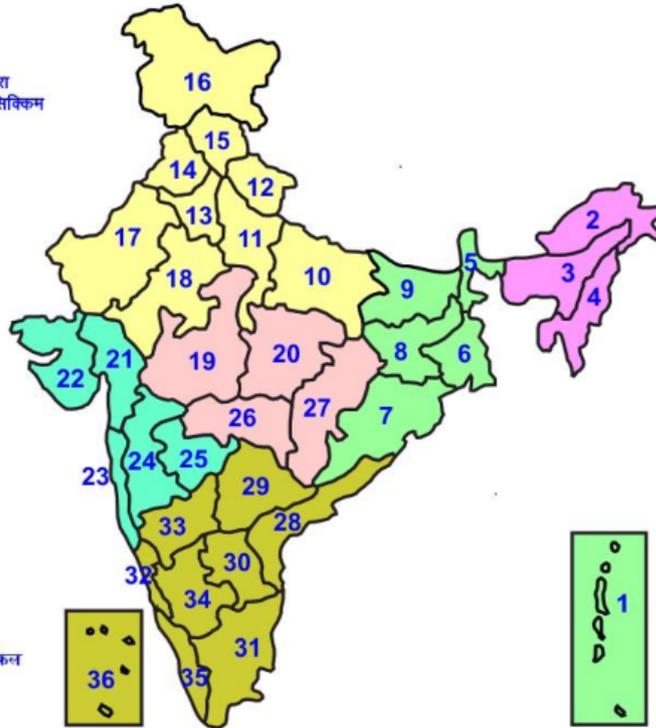
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- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ 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"

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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## 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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