

2026-02-18

Time of Issue: 13:07:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Systems, Forecast and Warnings

- **Isolated** rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 18th and Uttarakhand on 18th & 19th February.
- **Isolated** rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Punjab, Haryana, Uttar Pradesh and East Rajasthan on 18th and over Andaman & Nicobar Islands on 18th & 19th; with **thunderstorm & lightning** likely West Rajasthan, Madhya Pradesh and over north Gujarat on 18th and over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe during 20th-22nd February.
- **Hailstorm activity** also likely at isolated places over Haryana, East Rajasthan and north Madhya Pradesh on 18th February.

Forecast of minimum temperatures:

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

Forecast of maximum temperatures:

- **Maximum Temperatures are likely to fall by 2-4°C over plains of Northwest India during next 24 hours; gradual rise by 2-4°C thereafter for subsequent 2 days and no significant change thereafter.**
- No significant change in maximum temperature likely over Central India during next 5 days and gradual fall by 2-3 °C during subsequent 2 days.
- No significant change in Maximum temperature likely over Gujarat State, Maharashtra & Goa during next 2 days and gradual rise by 2-3 °C thereafter during subsequent 5 days.

*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 a few places** over Haryana-Chandigarh-Delhi; **at isolated places** over Andaman & Nicobar Islands, Sub Himalayan West Bengal & Sikkim, Punjab, West Rajasthan, East Rajasthan, West Madhya Pradesh 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): **Andaman & Nicobar Islands:** Nancowry (dist Nicobar) 3; **East Rajasthan:** Naraina SR (dist Jaipur) 3; Deogarh (dist Rajsamand) 2; Ajmer Tehsil SR (dist Ajmer), Badesar SR (dist Chittorgarh), Bhim (dist Rajsamand), Ajmer (dist Ajmer), Nasirabad (dist Ajmer), Chomu (dist Jaipur) 1 Each; **West Rajasthan:** Nohar SR (dist Hanumangarh) 2; Rawatsar SR (dist Hanumangarh), Hanumangarh (dist Hanumangarh), Sangaria SR (dist Hanumangarh), Churu (dist Churu) 1 Each; **Kerala & Mahe:** Kalpeta AWS (dist Wynad) 2; **Haryana-Chandigarh-Delhi:** Rewari (dist Rewari), Kalanwali (dist Sirsa) 1 Each.
- ❖ **Minimum Temperature Departures (as on 18-02-2026):** **below normal(-1.6°C to -3.0°C)** at many places over Jharkhand; at few places over Odisha, East Uttar Pradesh, Vidarbha, Chhattisgarh and Rayalaseema; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Himachal Pradesh, East Madhya Pradesh, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **appreciably below normal(-5.0°C to -3.1°C)** at few places over Himachal Pradesh, Rayalaseema and South Interior Karnataka; at isolated places over Assam & Meghalaya, Odisha, East Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **markedly below normal(< -5.0°C)** at few places over Gangetic West Bengal, West Madhya Pradesh and East Madhya Pradesh; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, East Uttar Pradesh, Himachal Pradesh, Gujarat Region, Saurashtra & Kutch, Vidarbha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **The lowest minimum temperature** of 8.2°C is reported at BANDA (UTTAR PRADESH) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 17-02-2026):** **The highest maximum temperature** of 36.1°C is reported at KOCHI (CIAL) (KERALA).

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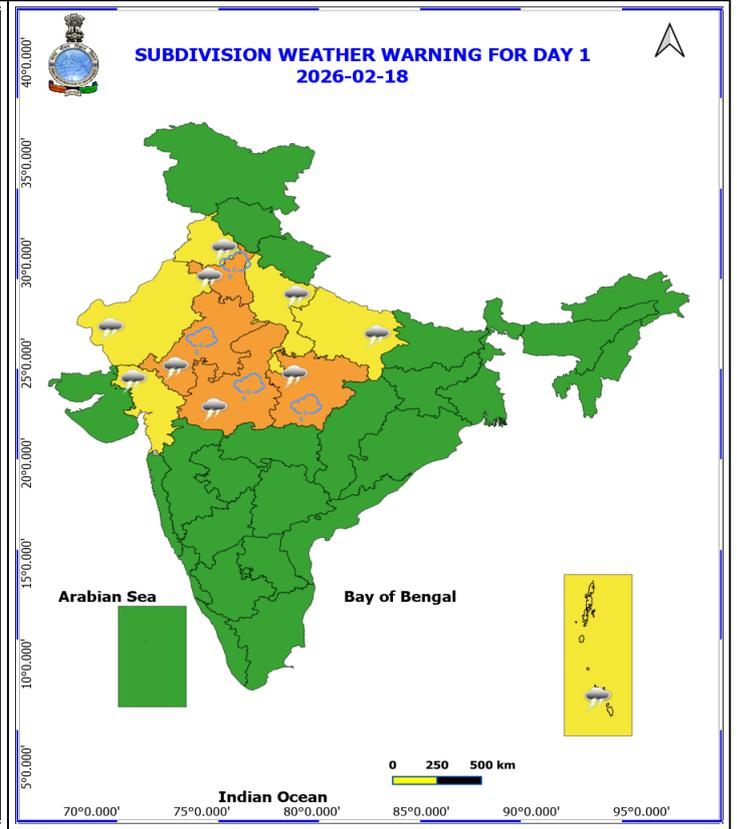
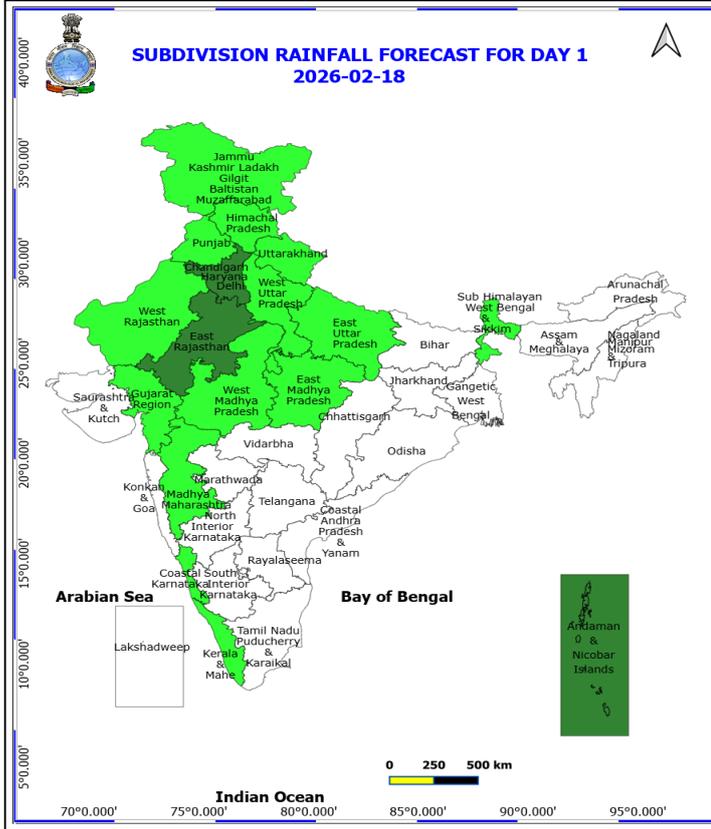
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Meteorological Analysis (Based on 0830 hours IST)

- The **Low Pressure Area** over Equatorial Indian Ocean & adjoining southwest Bay of Bengal persists over the same region at 0830 hrs IST of today, the 18th February, 2026. The associated **upper air cyclonic circulation** extends upto 5.8 km above mean sea level. It is likely to move west-northwestwards towards Sri Lanka and become more marked over southwest Bay of Bengal & adjoining Equatorial Indian Ocean during next 24 hours.
- The **Western Disturbance** as a cyclonic circulation over southeast Pakistan & neighbourhood, now lies over Southeast Pakistan & adjoining west Rajasthan between 3.1 & 7.6 km above mean sea level tilting northwestwards with height.
- The **Western Disturbance** as a cyclonic circulation over central Pakistan & adjoining Punjab persists and now seen between 3.1 & 5.8 km above mean sea level has merged with the above **Western Disturbance**.
- An Induced **upper air cyclonic circulation** lies over southwest Rajasthan & neighbourhood at 1.5 km above mean sea level.
- An **upper air cyclonic circulation** lies over northeast Madhya Pradesh and neighbourhood at 1.5 km above mean sea level.
- The **trough** from northeast Arabian sea to northwest Madhya Pradesh now runs from eastcentral Arabia Sea to central Madhya Pradesh across Gujarat and southeast Rajasthan at 1.5 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 Northeast India.
- The **upper air cyclonic circulation** over southeast Arabian Sea off south Kerala coast and extends upto 0.9 km above mean sea level has become less marked.
- The induced **upper air cyclonic circulation** over Punjab & neighbourhood extending upto 1.5 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

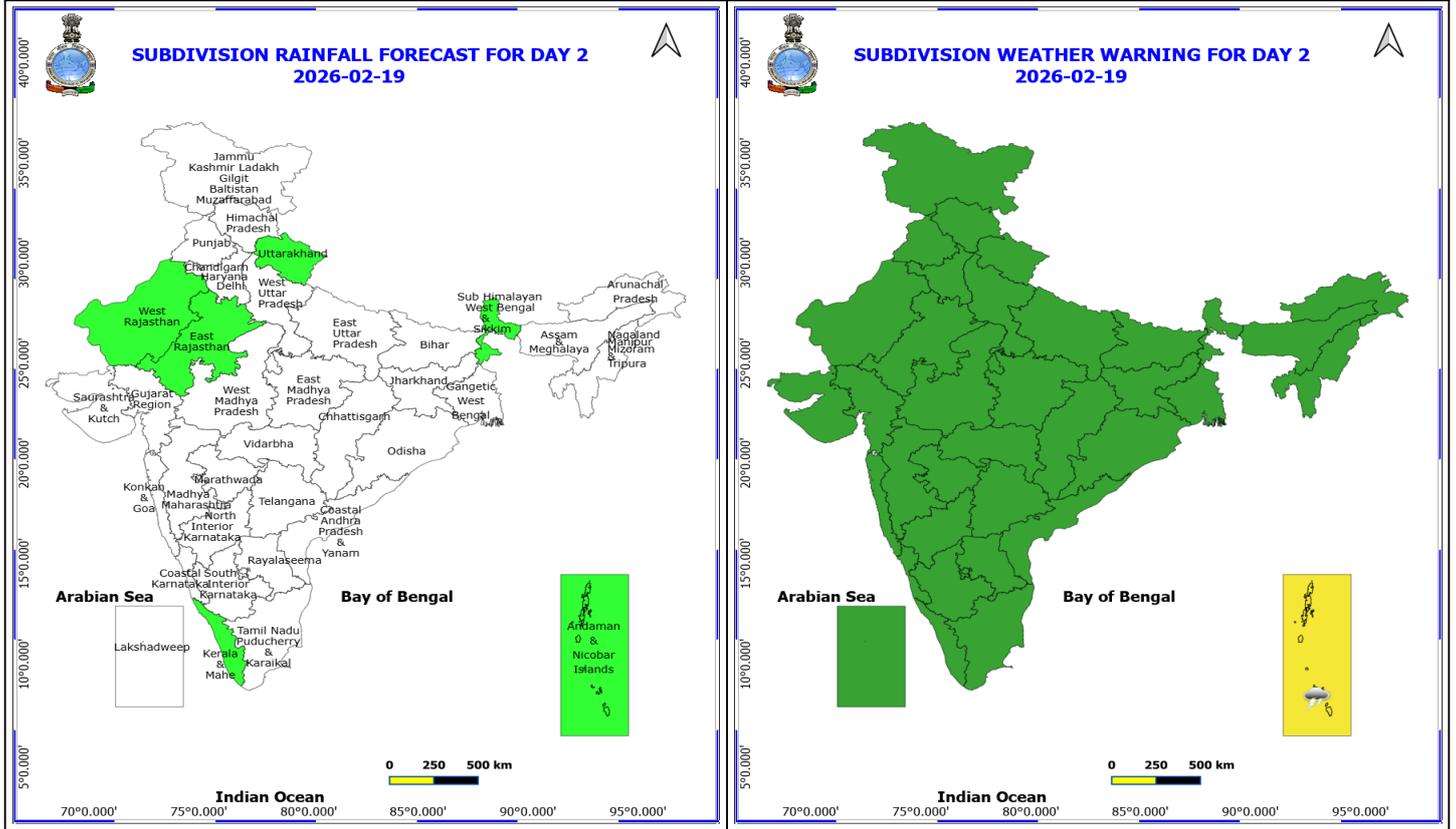
- Isolated to Scattered rainfall activity likely over Arunachal Pradesh, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- Isolated rainfall activity likely over Central India, Lakshadweep and Nicobar Islands.



18 February (Day 1)

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over East Rajasthan, Haryana, Chandigarh & Delhi and Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab and Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Gujarat Region, Madhya Pradesh and West Uttar Pradesh.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over Gulf of Mannar and some parts of Comorin area, adjoining Equatorial Indian Ocean, along and off west Sri Lanka coast.
- ❖ **Squally weather with wind speed 45 to 55 kmph gusting to 65 kmph** likely to prevail over many parts of southwest Bay of Bengal & adjoining Equatorial Indian Ocean, along and off east Sri Lanka coast.

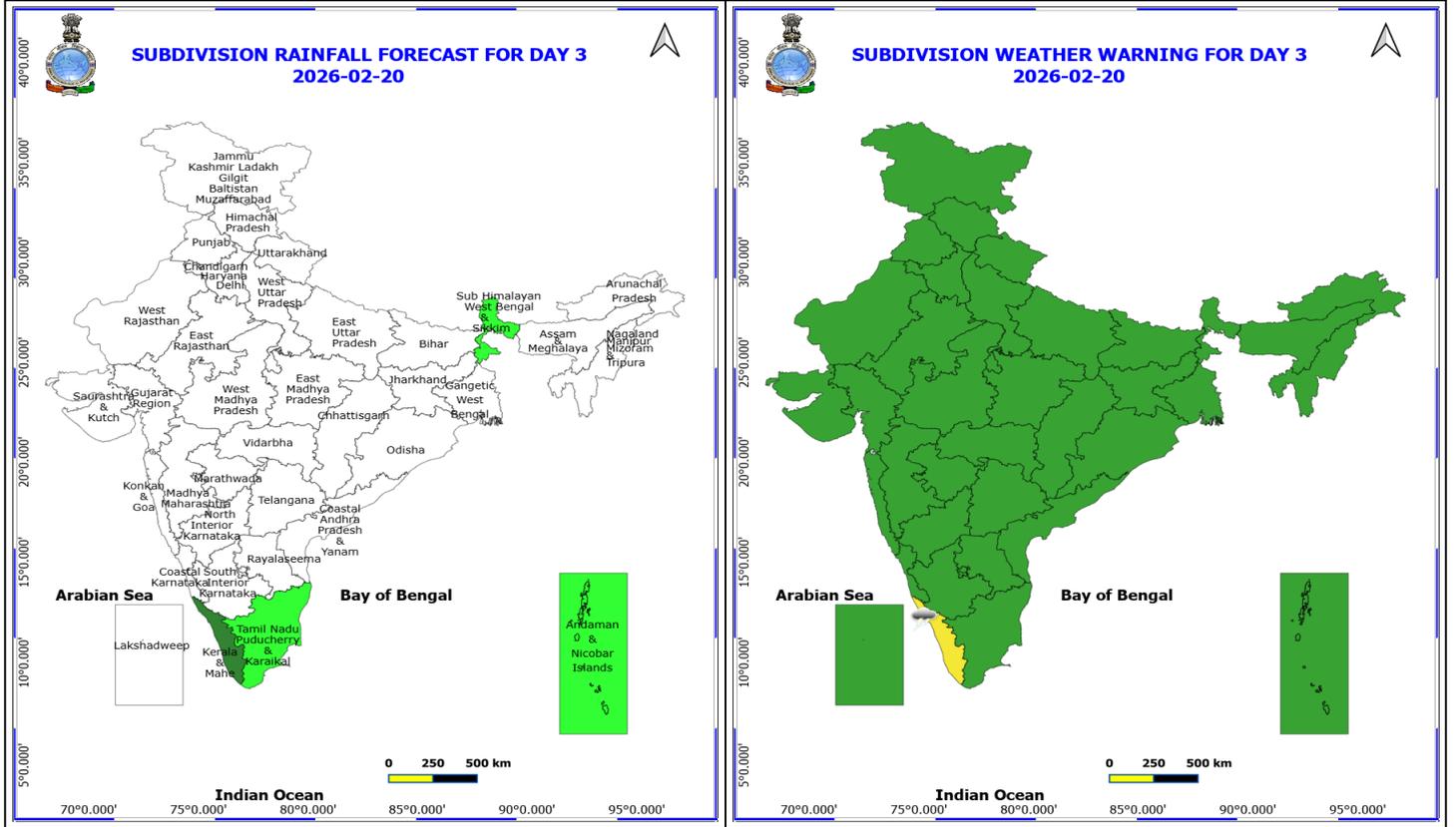
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19 February (Day 2)

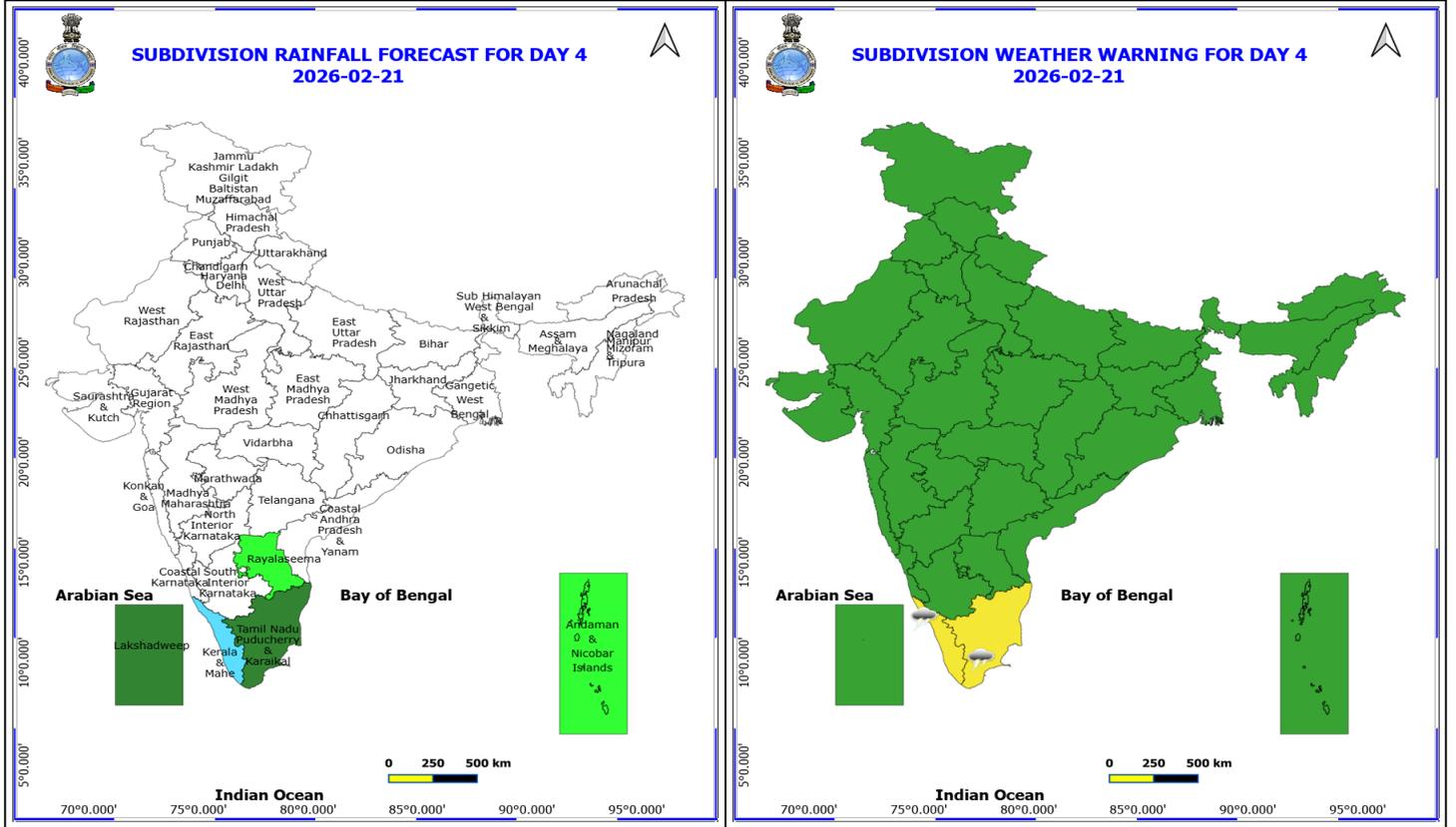
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over Gulf of Mannar and Comorin area, adjoining Equatorial Indian Ocean, along and off west Sri Lanka coast.
- ❖ **Squally weather with wind speed 45 to 55 kmph gusting to 65 kmph** likely to prevail over some parts of southwest Bay of Bengal & adjoining Equatorial Indian Ocean, along and off east Sri Lanka coast.

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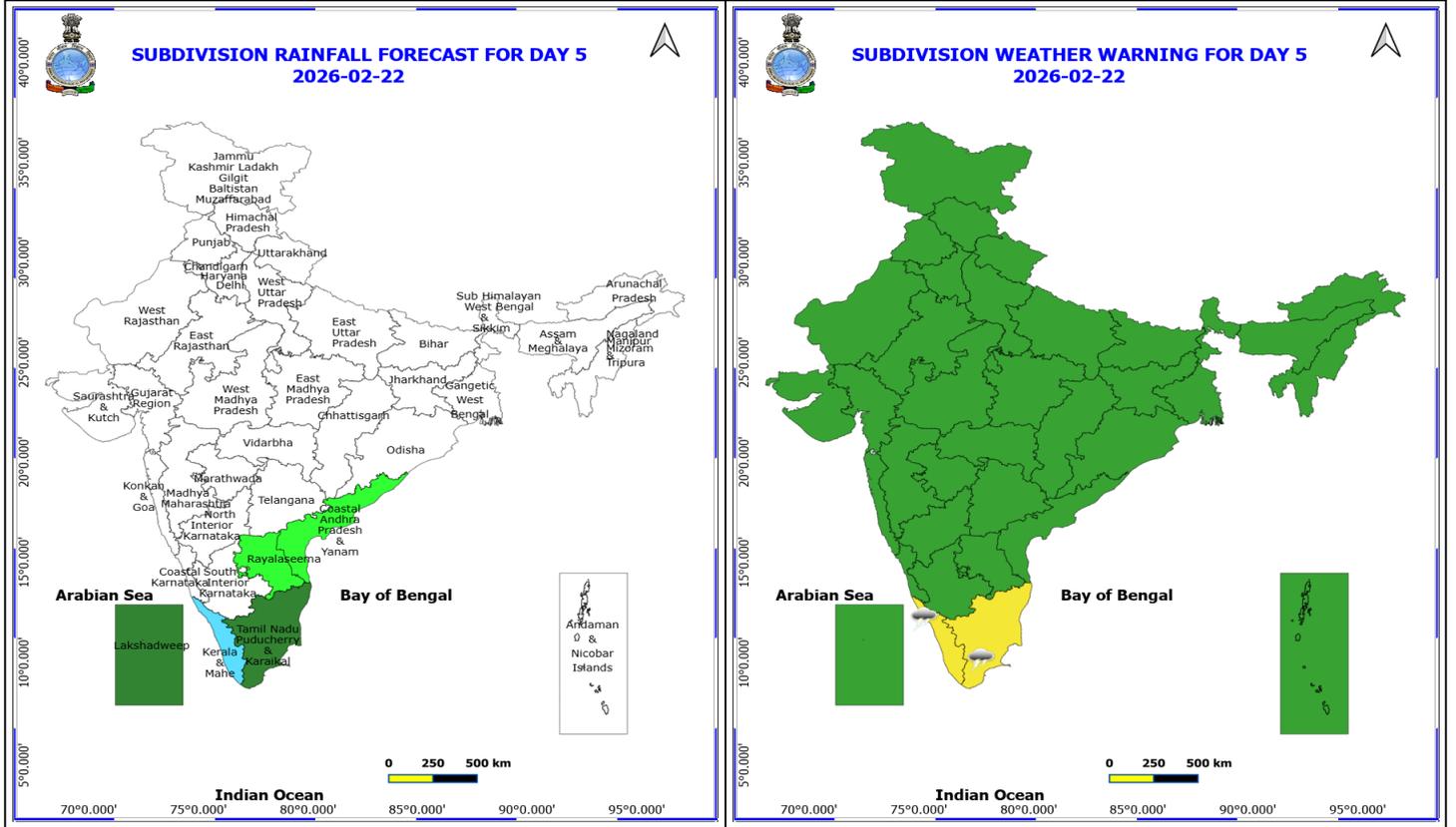
20 February (Day 3)

- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over Gulf of Mannar and Comorin area, adjoining Equatorial Indian Ocean, along and off west Sri Lanka coast, over some parts of southeast Bay of Bengal.



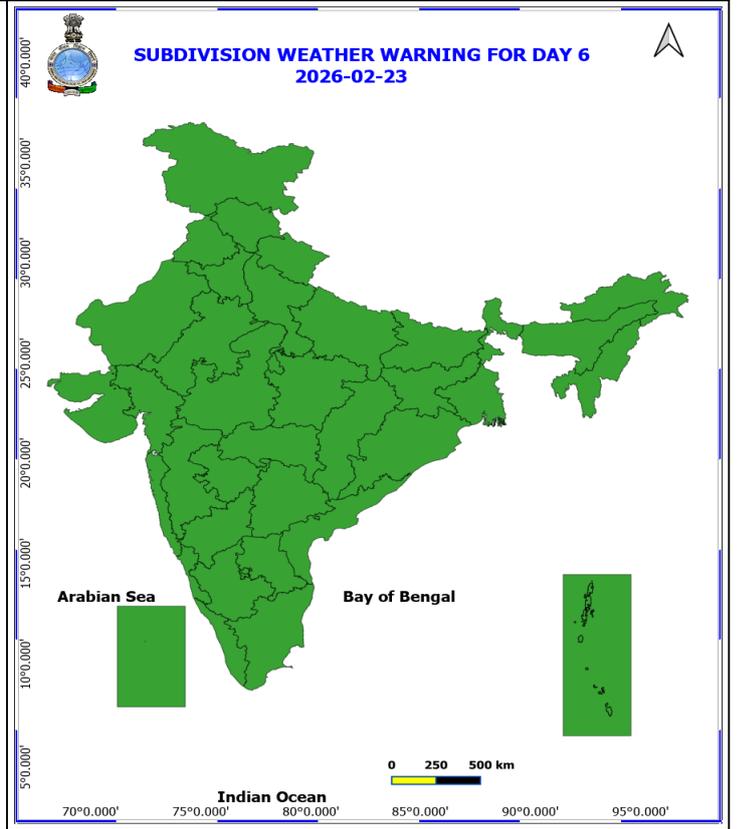
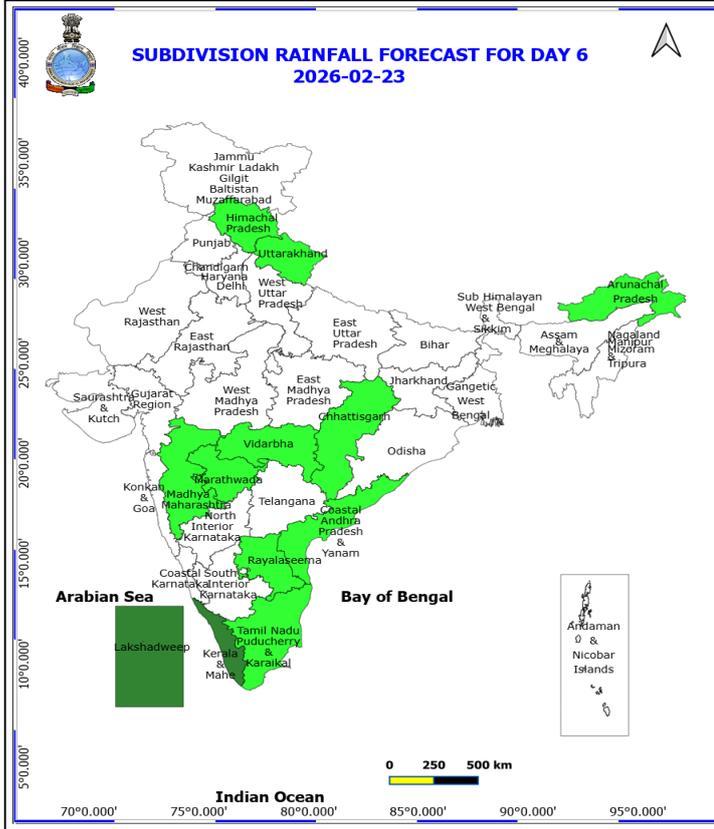
21 February (Day 4)

- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over some parts of southwest Bay of Bengal and Comorin area.



22 February (Day 5)

- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over some parts of southwest Bay of Bengal and off north Sri Lanka coast.



23 February (Day 6)

No Warning
No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

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

Fig. 2: Departure of Maximum Temp. Dated 2026-02-17

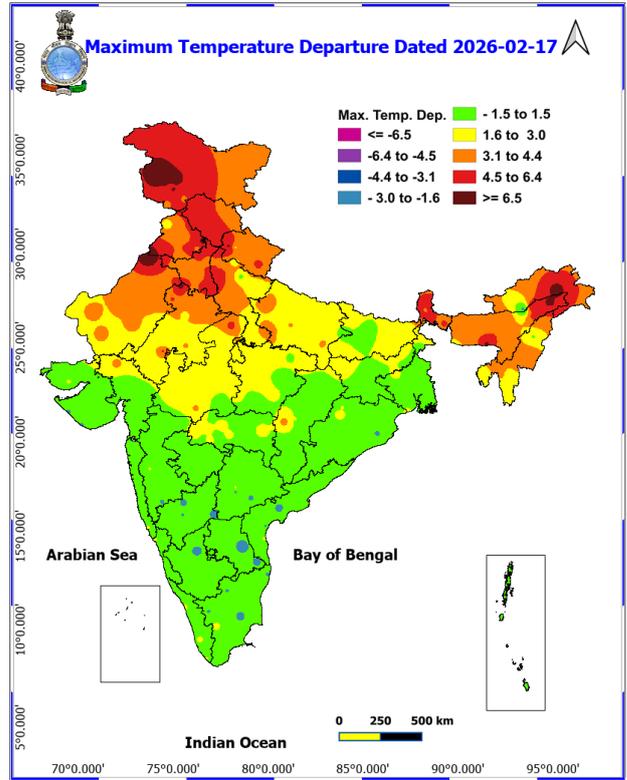
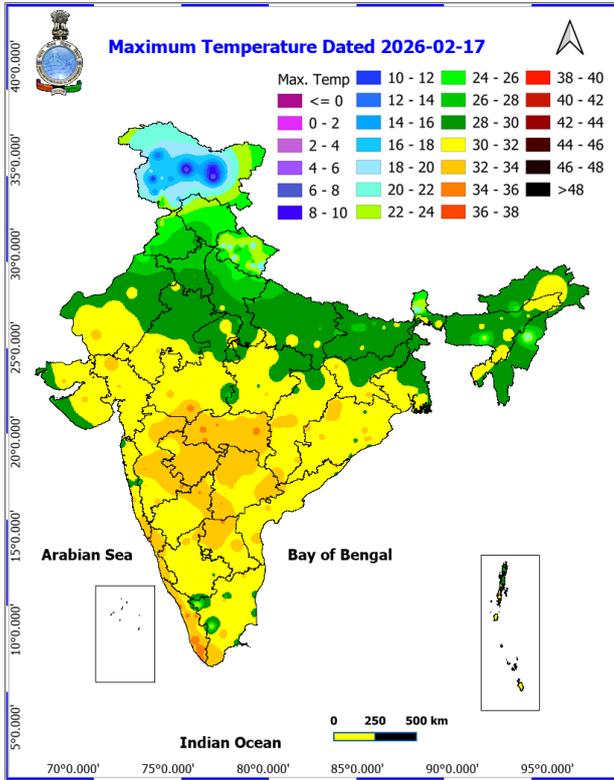
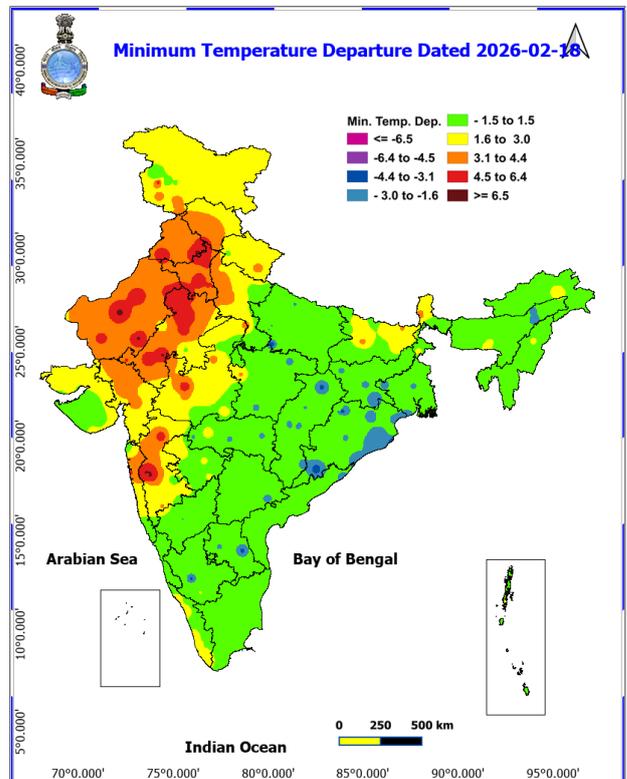
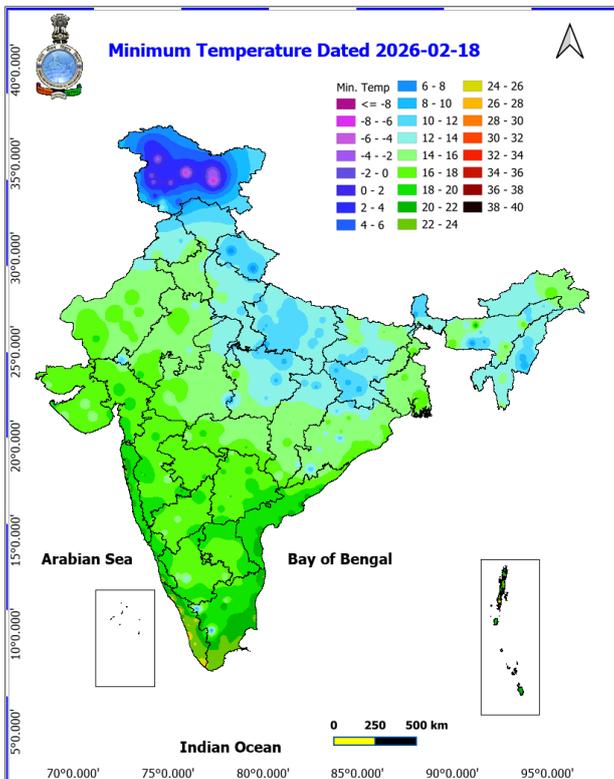


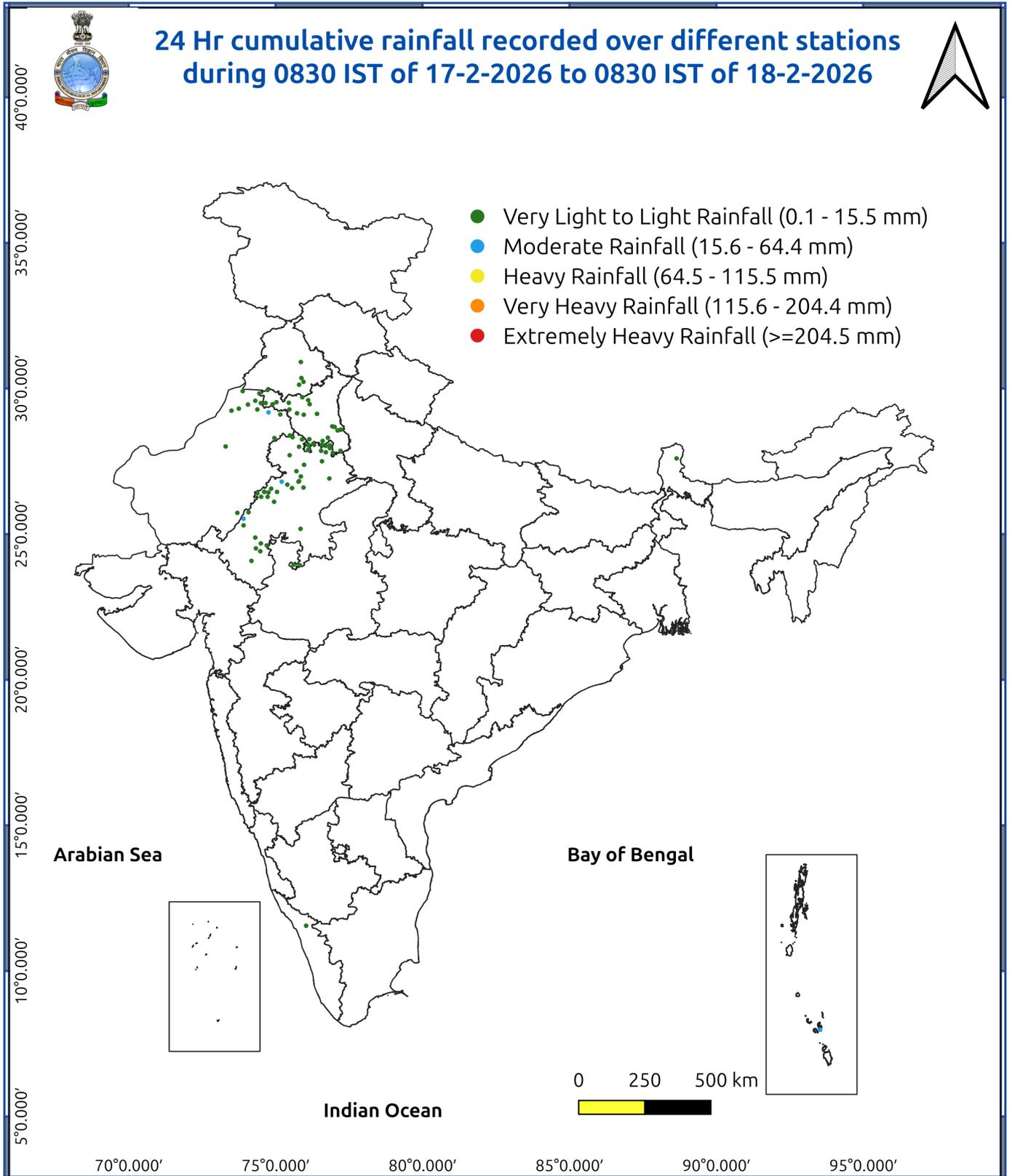
Fig. 3: Minimum Temperatures Dated 2026-02-18

Fig. 4: Departure of Minimum Temp. Dated 2026-02-18



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Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over

- **Isolated** rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Punjab, Haryana, Uttar Pradesh and East Rajasthan on 18th and over Andaman & Nicobar Islands on 18th & 19th February.
- **Hailstorm activity** also likely at isolated places over Haryana, East Rajasthan and north Madhya Pradesh on 18th February

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:**
- 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.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Hailstorms

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Haryana, East Rajasthan and West Madhya Pradesh.**

Agromet advisories for likely impact of Above normal Temperatures

- In **Intermediate Zone of Jammu and Kashmir**, apply light irrigation to wheat and mustard crops. Maintain optimum moisture in apple orchards.
- 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.
- In **East Arunachal Pradesh**, provide light irrigation to potato, cabbage, mustard, and peas in the morning to maintain adequate moisture.
- In **East Assam**, apply irrigation in rice crop during the tillering stage to maintain the optimum water level. Irrigate cauliflower as needed.

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- 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.

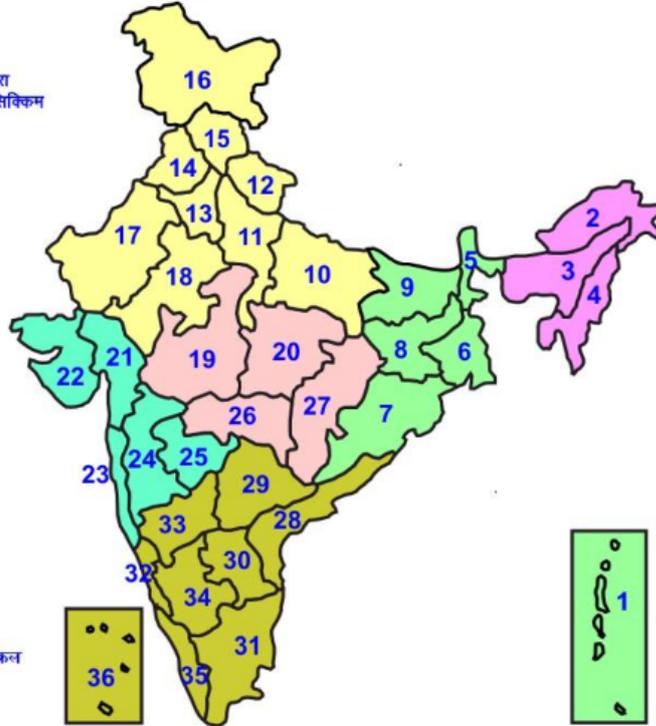
Legends & abbreviations:

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.

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"

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°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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