

2026-03-22

Time of Issue: 08:00:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Northwest India:

- **Isolated to scattered** light rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (30-50 kmph) likely over **Himachal Pradesh and Uttarakhand** on 23rd March. Another fresh wet spell with isolated to scattered light to moderate rainfall/snowfall likely over the region during 24th -27th March.
- **Isolated** thunderstorm, lightning & gusty winds speed reaching (30-40 kmph) likely over West Rajasthan on 22nd March.

Northeast India:

- **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds speed reaching (30-50 kmph)** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 22nd March; **Thunderstorm & lightning** likely over Northeast India during next 4 days.
- **Isolated heavy rainfall** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 27th; Arunachal Pradesh on 24th & 27th March.

East India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph)** likely over Bihar on 26th & 27th; Sub-Himalayan West Bengal & Sikkim during 22nd -25th March.

Central India:

- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-60 kmph)** likely over Vidarbha on 24th with thunderstorm, lightning & gusty winds speed reaching (30-40 kmph) over Chhattisgarh with lightening on 24th & 25th March.

South Peninsular India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Coastal Andhra Pradesh & Yanam on 23rd & 24th;

West India:

- **Isolated** light/moderate rainfall with **thunderstorm & lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Maharashtra and Marathwada on 23rd & 24th March.

Hot & Humid weather Warnings:

- **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala & Mahe during 22nd-23rd; Konkan & Goa on 23rd & 24th and Coastal Karnataka on 22nd March.

Forecast of maximum/day temperatures:

- Gradual rise in maximum temperatures by 6-8°C likely over Northwest India during next 4 days and no large change thereafter.
- Gradual rise in maximum temperatures by 3-5°C likely over Central India during next 5 days and no large change thereafter.
- Gradual fall in maximum temperatures by 2-4°C likely over East India during next 24 hours and gradual rise by 2-3°C during subsequent 5 days.
- Gradual rise in maximum temperatures by 3-5°C likely over Gujarat State during next 3 days and no significant

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change during subsequent 4 days.

- Gradual rise in maximum temperatures by 2-4°C likely over Maharashtra during next 2 days and no significant change during subsequent 5 days.
- No significant change in maximum temperatures likely over rest parts of the country.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Nagaland, Manipur, Mizoram & Tripura, Sub-himalayan West Bengal & Sikkim, Gangetic West Bengal, Assam & Meghalaya and Arunachal Pradesh; **at isolated places** over Coastal Andhra Pradesh & Yanam, Odisha, Jharkhand, Bihar and West Rajasthan; **Dry** over rest of the country.

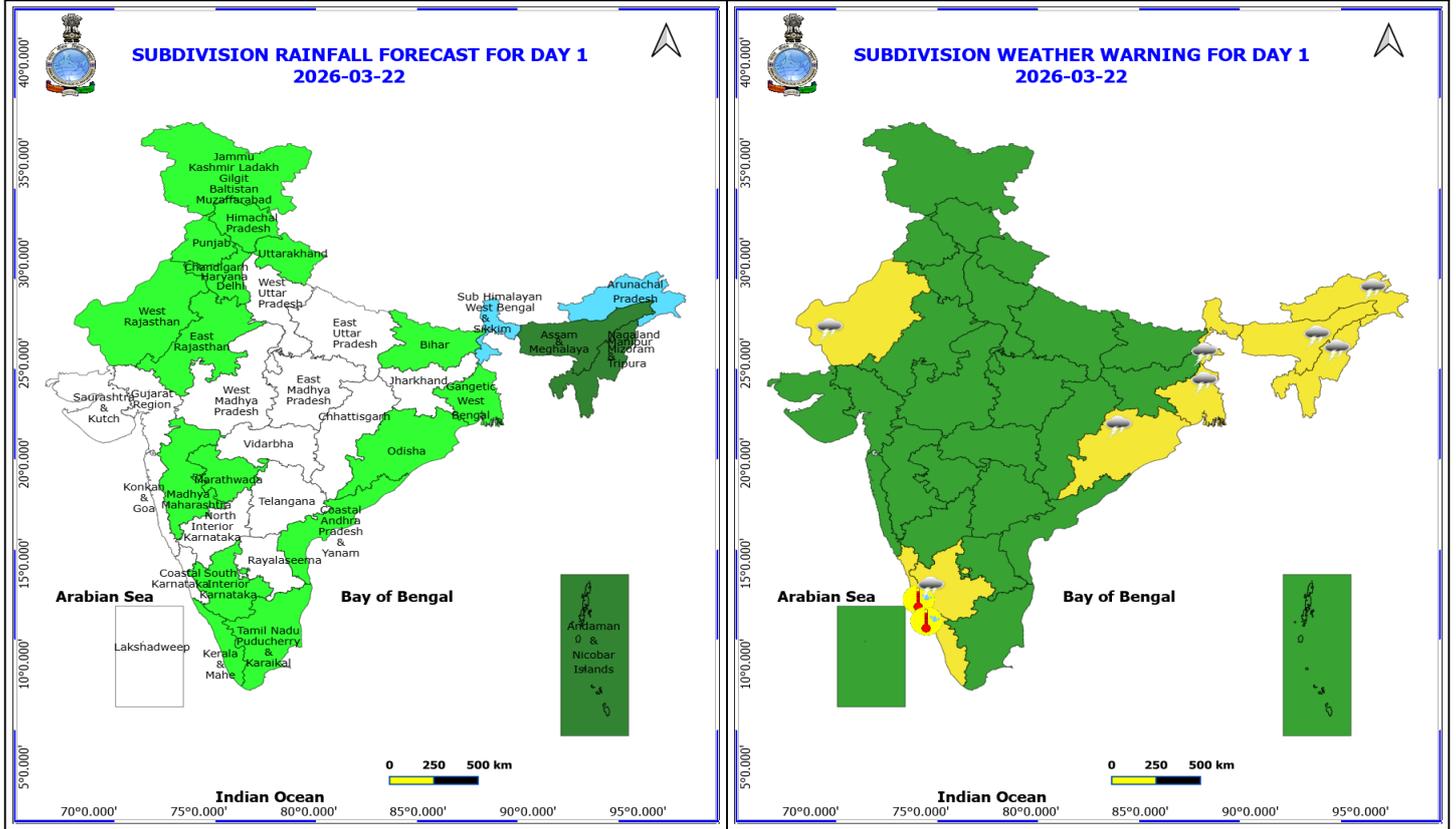
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Coastal Andhra Pradesh & Yanam:** Amaravati-ap-obs2 (dist Guntur) 4.

❖ **Minimum Temperature Departures (as on 21-03-2026):** **markedly above normal(> 5.1°C)** at isolated places over Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Bihar and Madhya Maharashtra. **above normal(1.6°C to 3.0°C)** at most places over Arunachal Pradesh; at few places over Andaman & Nicobar Islands and Vidarbha; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, East Uttar Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **near normal(-1.5°C to 1.5°C)** at many places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, West Uttar Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka; at most places over Konkan & Goa and Kerala & Mahe; at few places over Odisha, Jharkhand, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, West Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Lakshadweep; at isolated places over Gangetic West Bengal, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, East Madhya Pradesh and North Interior Karnataka. **The lowest minimum temperature** of 7.7°C was reported at MANDI (HIMACHAL PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 21-03-2026):** **markedly below normal (-5.1°C or less)** at most places over Bihar, West Bengal & Sikkim; at many places over East Madhya Pradesh, East Uttar Pradesh, Jharkhand; at a few places over Chhattisgarh; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Assam & Meghalaya, Coastal Karnataka; **appreciably below normal (-3.1°C to -5.0°C)** at most places over East Rajasthan; at many places over West Madhya Pradesh, West Uttar Pradesh; at a few places over Haryana-Chandigarh-Delhi; at isolated places over West Rajasthan; **below normal (-3.0°C to -1.6°C)** at most places over Telangana, Gujarat Region, Madhya Maharashtra, Marathwada; at many places over Vidarbha, Saurashtra & Kutch, Punjab, Himachal Pradesh; at a few places over Rayalaseema; at isolated places over Coastal Andhra Pradesh & Yanam, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal. They were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, and Uttarakhand. **The highest maximum temperature of 39.9°C is reported at Sri Ganganagar (Rajasthan).**

Meteorological Analysis (Based on 0530 hours IST)

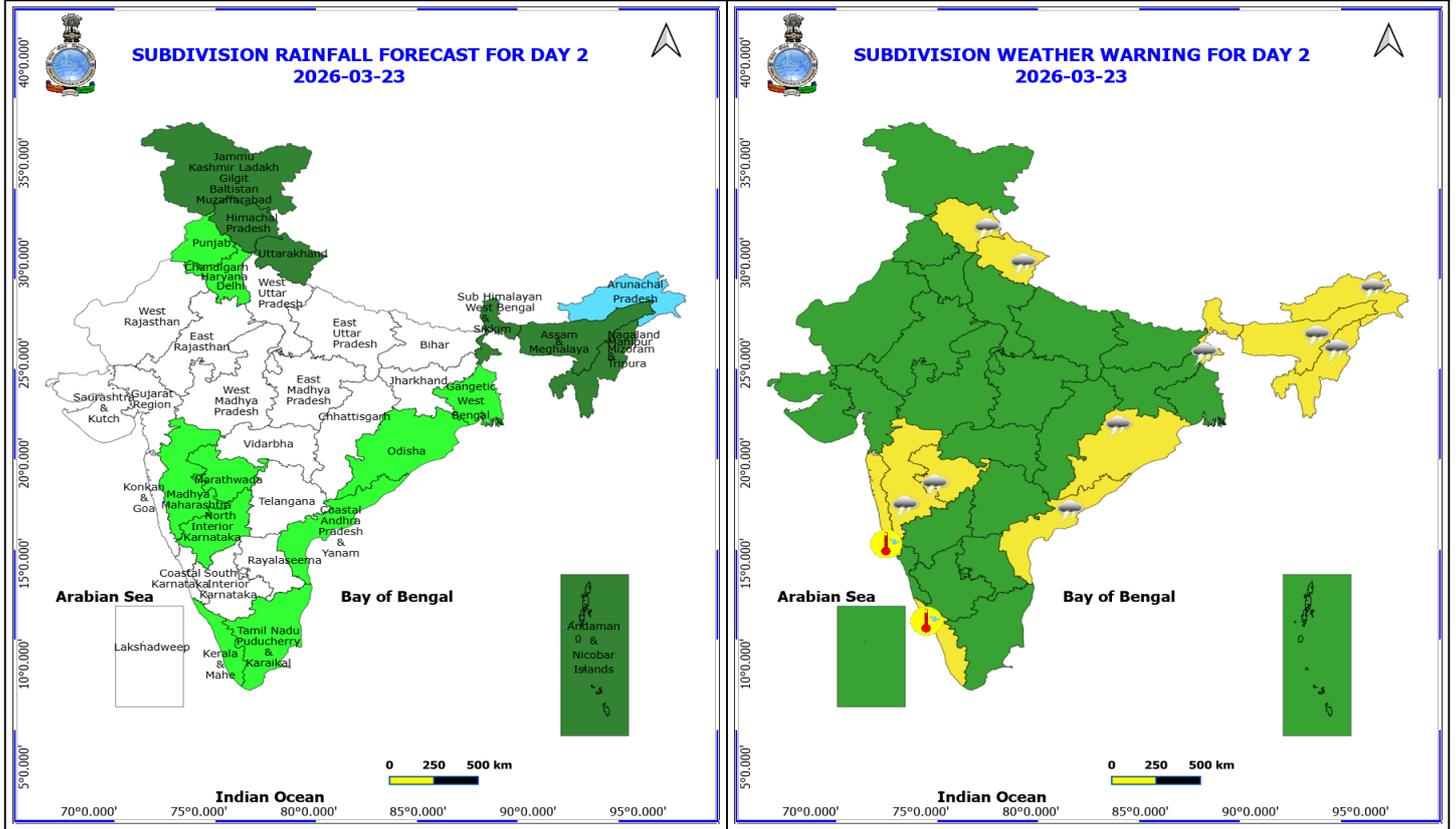
- The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 60°E to the north of Lat. 32°N.
- The **upper air cyclonic circulation** over East Bangladesh & neighbourhood persists and now extends upto 1.5 km above mean sea level with a **trough** aloft roughly along Long. 90°E to the north of Lat. 24°N between 3.1 & 9.6 km above mean sea level.
- The **Western Disturbance** as a trough from east Bihar to north Bay of Bengal across north Gangetic West Bengal, Bangladesh between 3.1 & 12.6 km above mean sea level has merged with the above system.
- The **upper air cyclonic circulation** over South Interior Karnataka & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- The **trough** now runs from Gulf of Mannar to South Madhya Maharashtra & neighbourhood across Tamil Nadu and cyclonic circulation over south Interior Karnataka at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over southwest Rajasthan & adjoining Pakistan at 1.5 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 85 knots at 12.6 km above mean sea level prevails over central India.
- A fresh feeble **Western Disturbance** is likely to affect northwest India from 26th March 2026.



22 March (Day 1)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Gangetic West Bengal, Nagaland, Manipur, Mizoram and Tripura, Odisha and West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and South Interior Karnataka.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Karnataka and Kerala & Mahe.
- ❖ **Squally weather with speed 40–50 kmph gusting to 60 kmph** likely to prevail along and off north Odisha, West Bengal, Bangladesh coasts and adjoining sea areas.

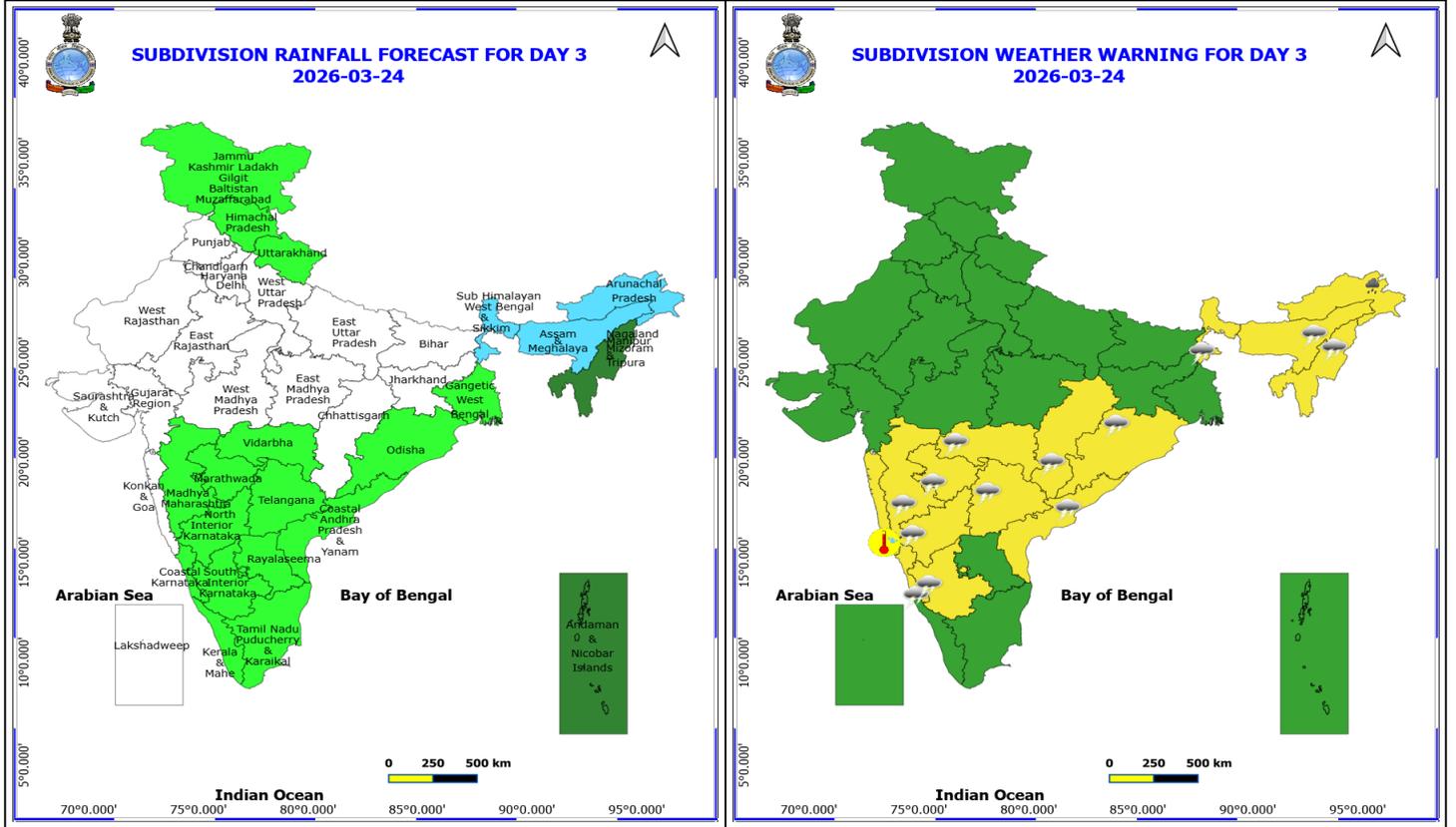
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23 March (Day 2)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Madhya Maharashtra, Marathwada and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Coastal Andhra Pradesh, Himachal Pradesh, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Hot and Humid weather** very likely at isolated places over Kerala & Mahe and Konkan & Goa.

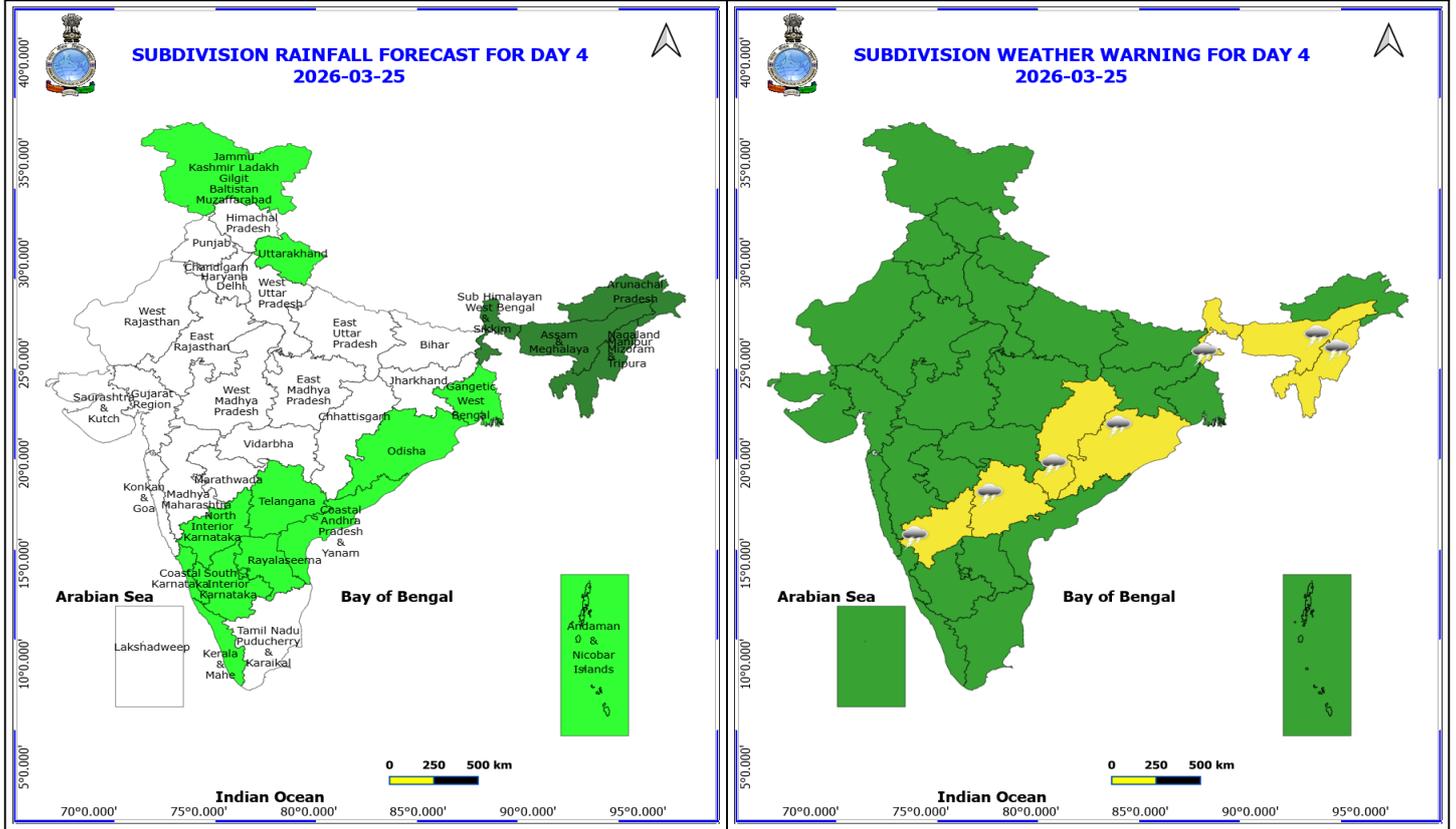
No Fishermen Warning



24 March (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Maharashtra and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Coastal Andhra Pradesh, North Interior Karnataka and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, Coastal Karnataka, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka and Telangana.
- ❖ **Hot and Humid weather** very likely at isolated places over Konkan & Goa.

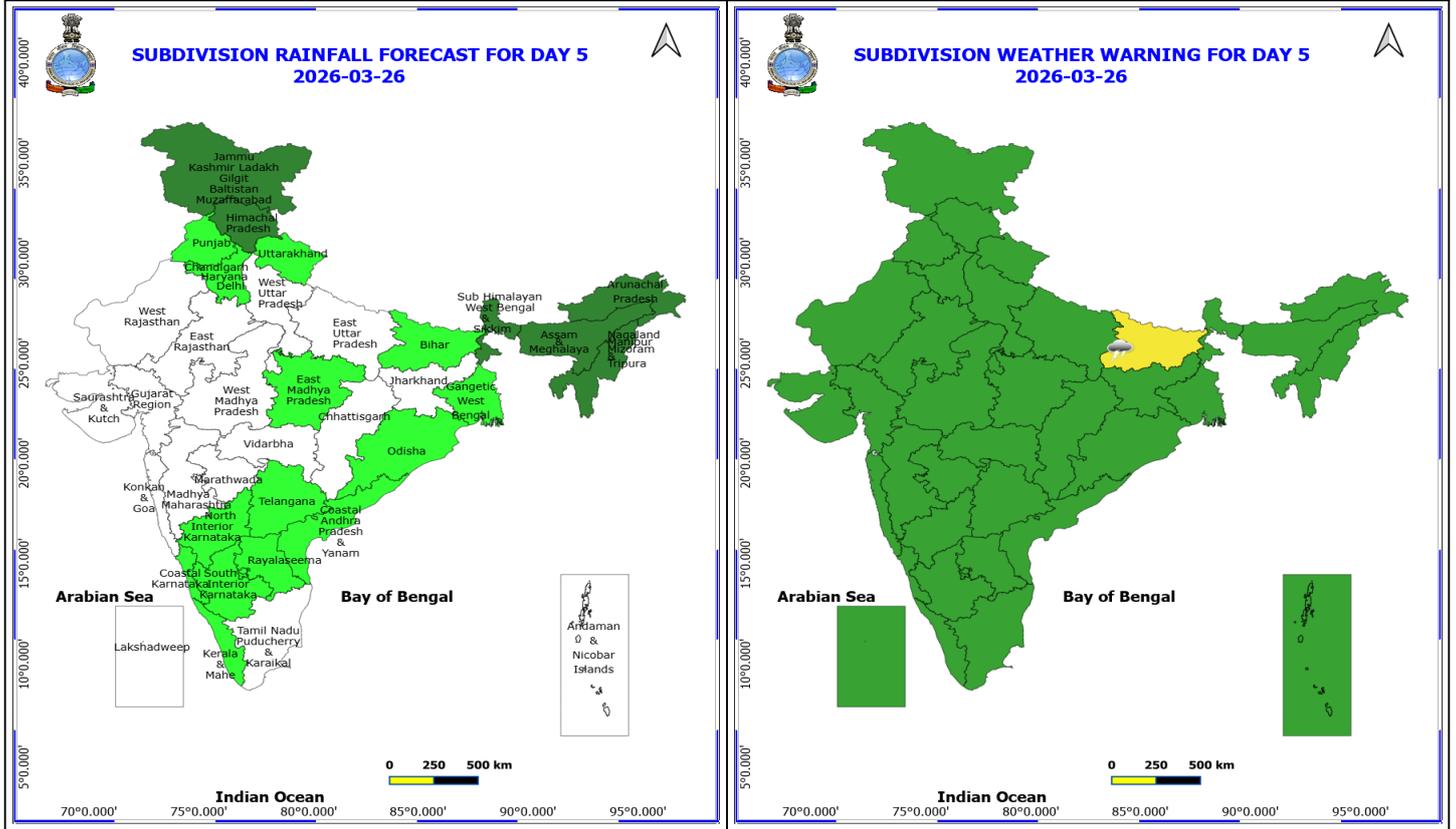
No Fishermen Warning



25 March (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over North Interior Karnataka, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Assam & Meghalaya, Chhattisgarh, Nagaland, Manipur, Mizoram and Tripura and Telangana.

No Fishermen Warning

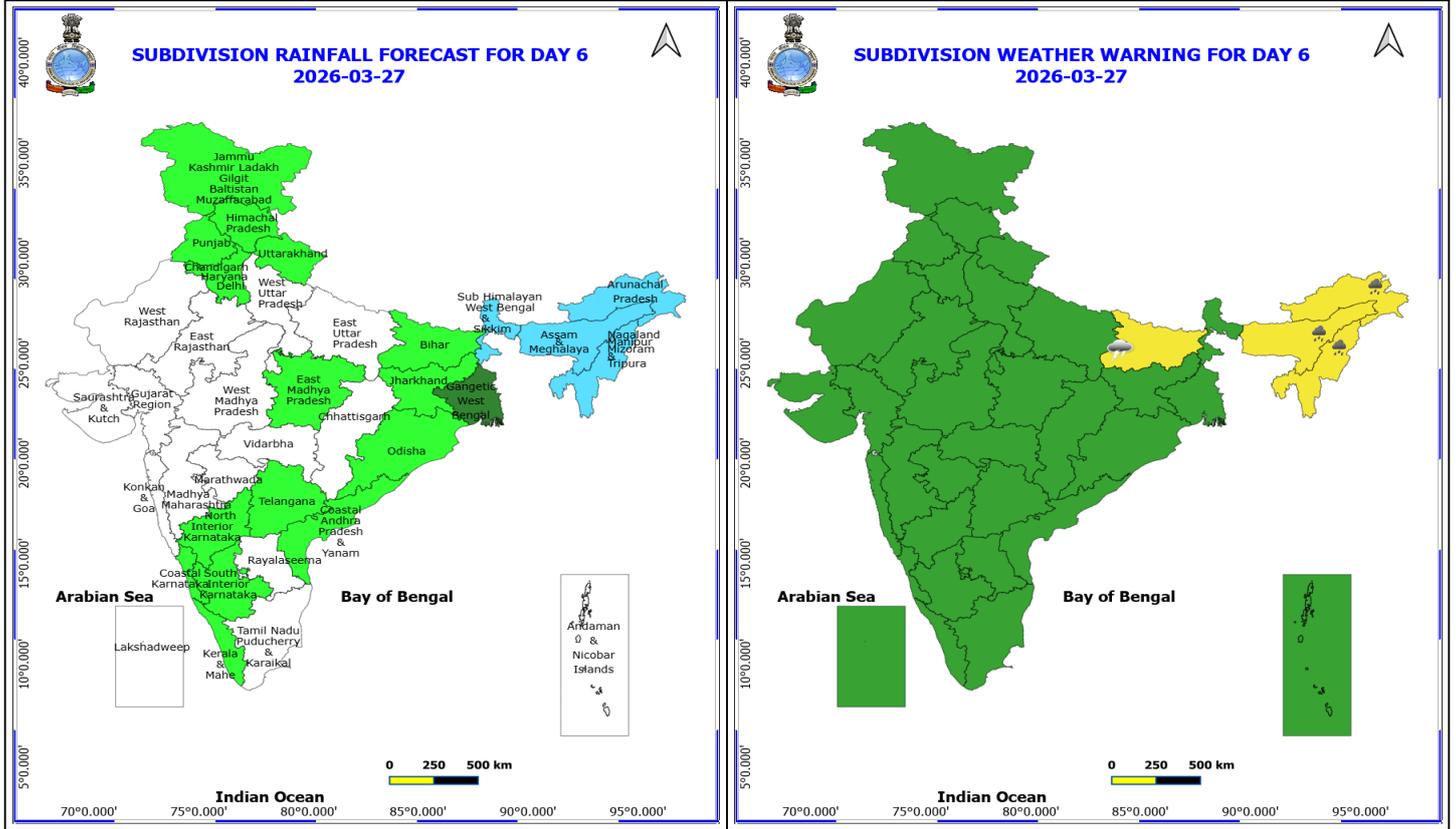


26 March (Day 5)

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph) likely at isolated places over Bihar.**

No Fishermen Warning

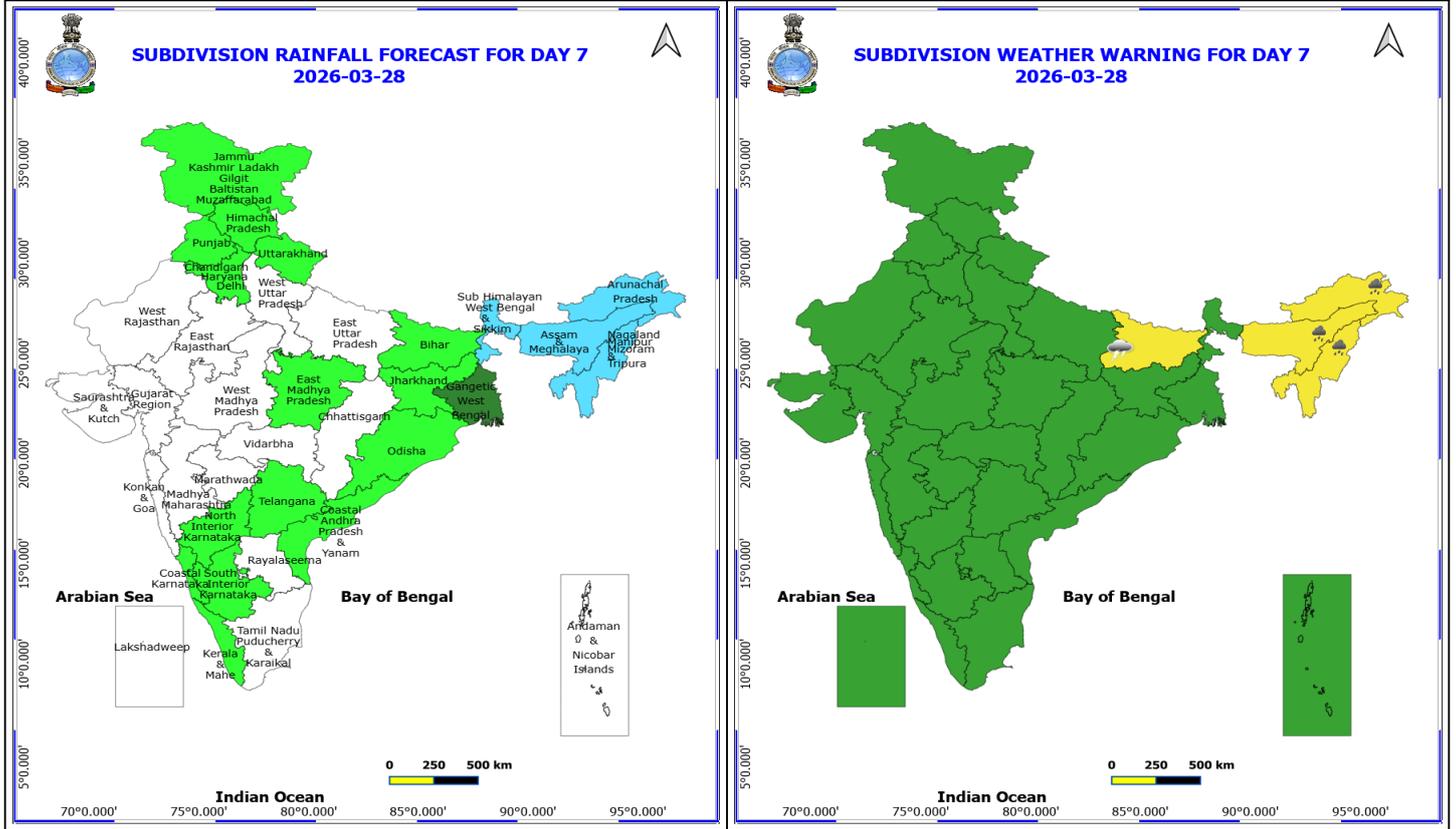
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27 March (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar.

No Fishermen Warning



28 March (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar.

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	22- Mar	23- Mar	24- Mar	25- Mar	26- Mar	27- Mar	28- Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	ISOL	DRY	DRY	DRY
2	ARUNACHAL PRADESH	FWS	FWS	FWS	SCT	SCT	FWS	FWS
3	ASSAM & MEHGHALAYA	SCT	SCT	FWS	SCT	SCT	FWS	FWS
4	N. M. M. & T.	SCT	SCT	SCT	SCT	SCT	FWS	FWS
5	S.H. WEST BENGAL & SIKKIM	FWS	SCT	FWS	SCT	SCT	FWS	FWS
6	GANGETIC WEST BENGAL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
7	ODISHA	ISOL						
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
9	BIHAR	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	SCT	ISOL	DRY	SCT	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	ISOL	SCT	ISOL	ISOL	SCT	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHWADA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	ISOL						
29	TELANGANA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	ISOL						
36	LAKSHDWEEP	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 2026-03-21

Fig. 2: Departure of Maximum Temp. Dated 2026-03-21

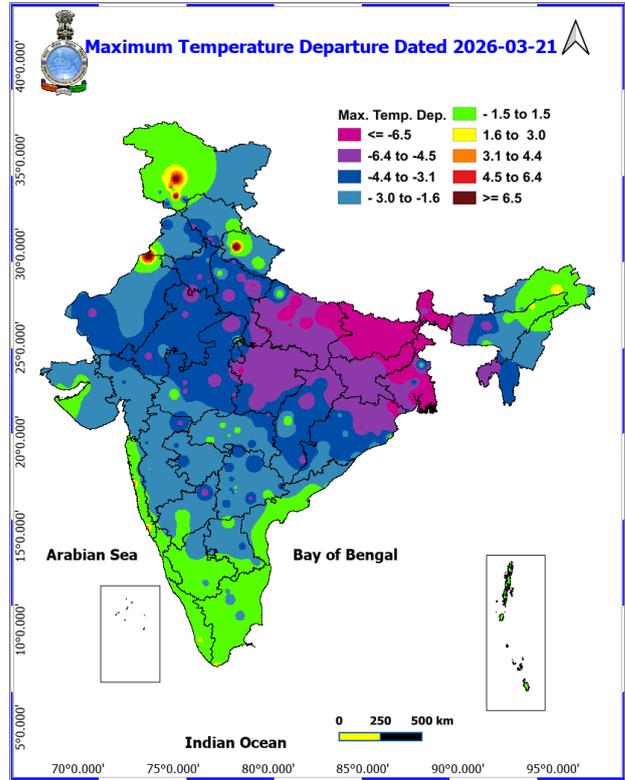
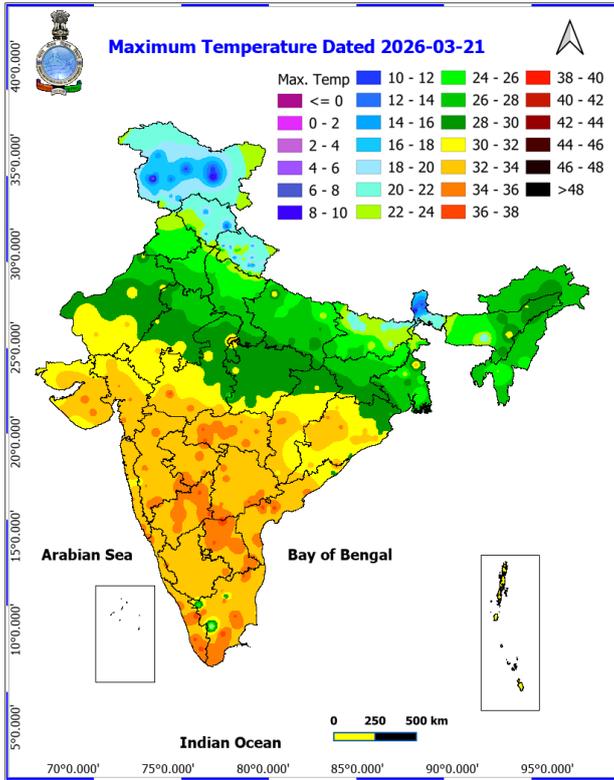
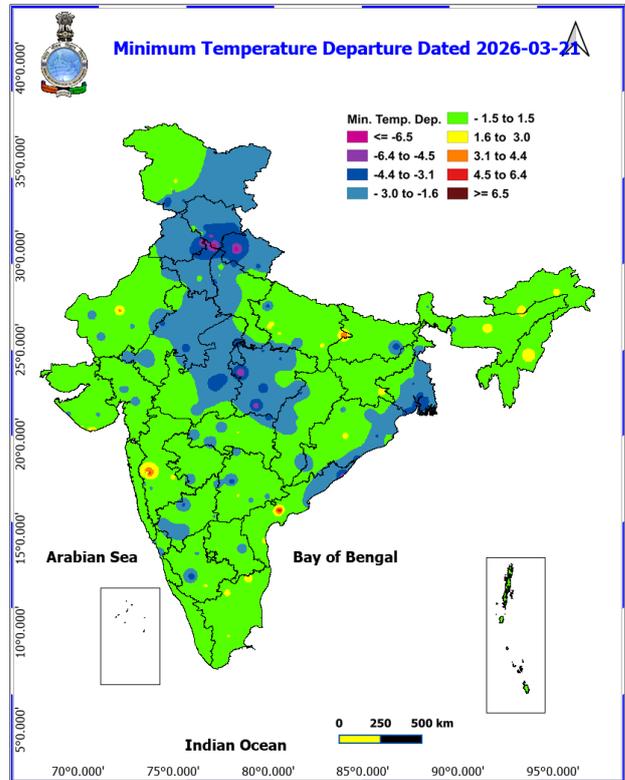
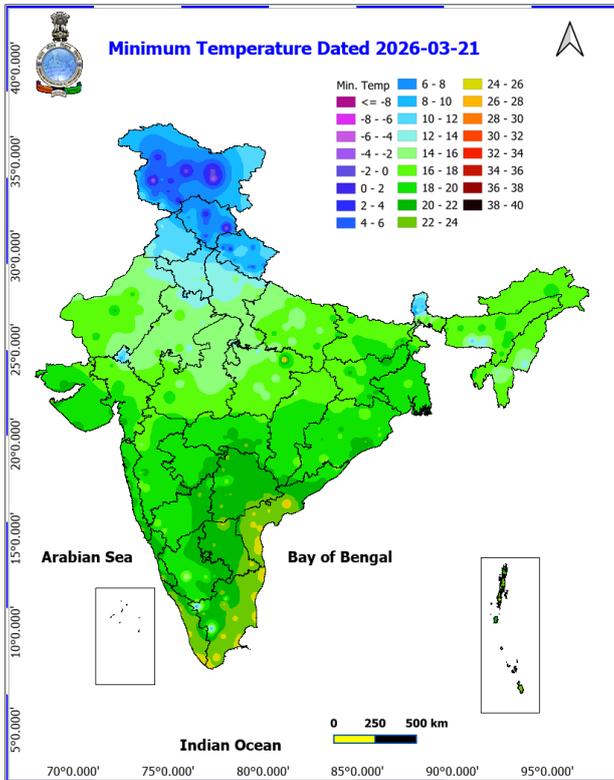
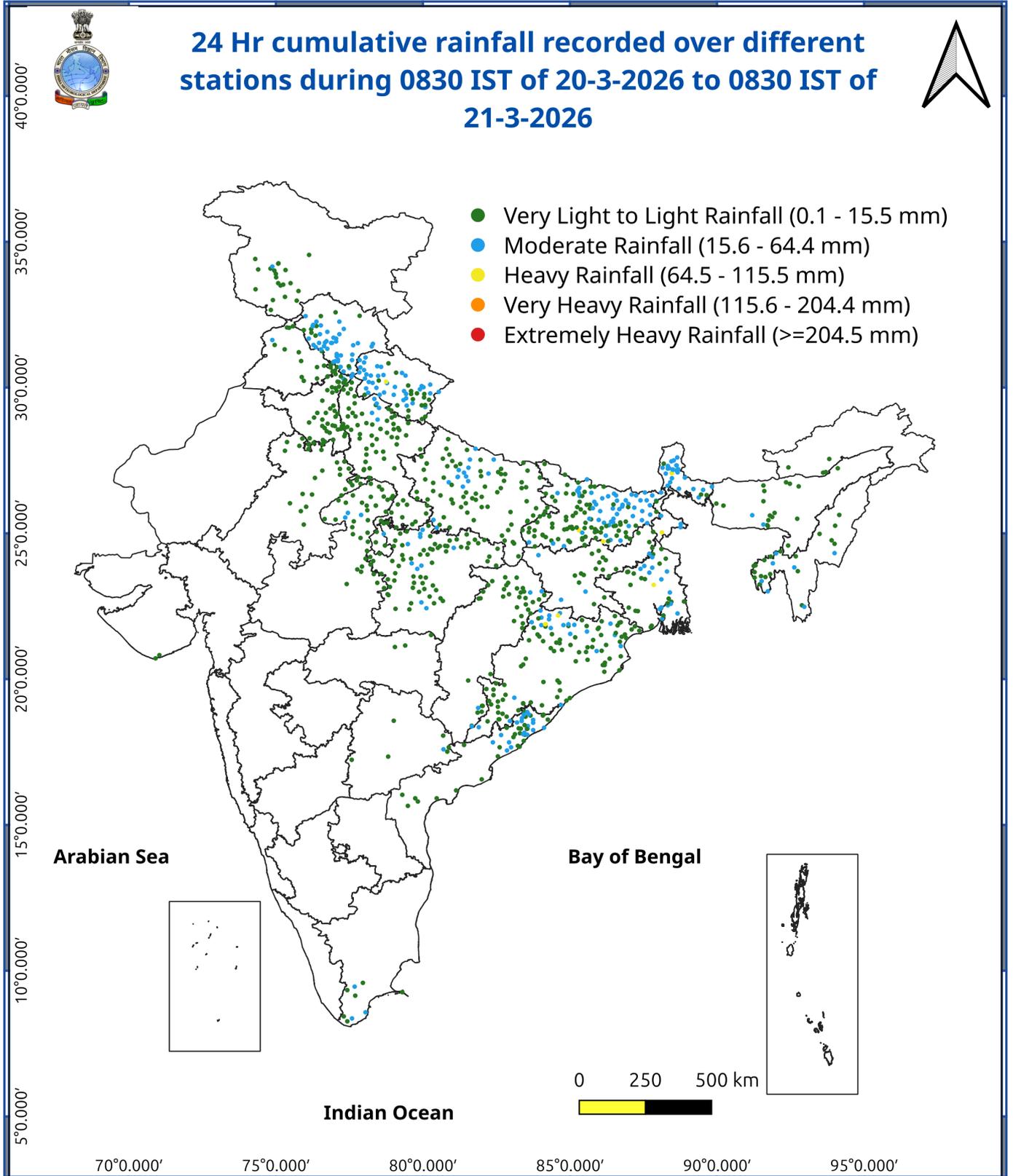


Fig. 3: Minimum Temperatures Dated 2026-03-21

Fig. 4: Departure of Minimum Temp. Dated 2026-03-21





Impact and Actions

Impact & Action Suggested due to heavy/very heavy rainfall:

- **Isolated heavy rainfall** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 27th; Arunachal Pradesh on 24th & 27th March.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

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 **West Bengal**.

Agromet advisories for likely impact of Heavy Rainfall

- In **Sub Himalayan West Bengal**, maintain proper drainage channel, and drain out excess water from fields of rice, maize, other standing crops, vegetables and orchard. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets.
- In **Bihar**, ensure proper drainage to drain out excess waters from standing crop fields and vegetables and keep the harvested produce of mustard at safer places.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants /

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fruit-bearing plants to avoid lodging due to strong winds

• **Livestock / Poultry**

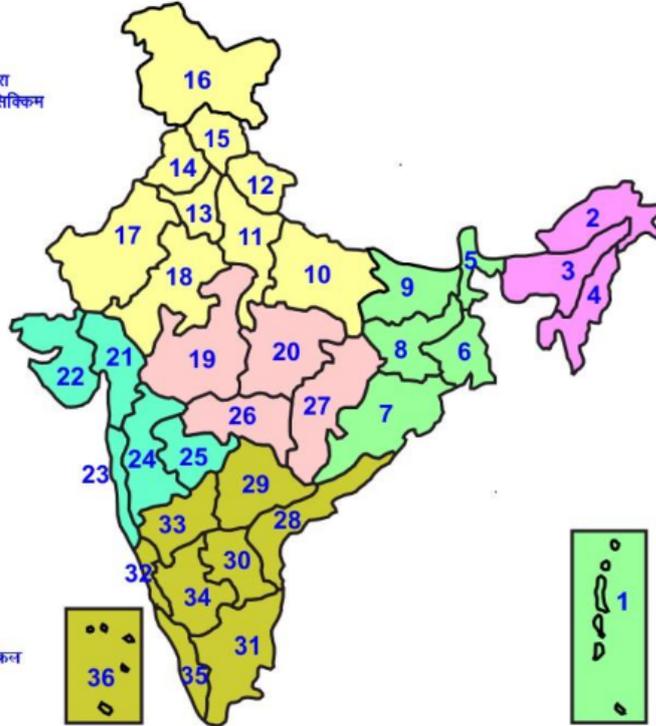
- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

Legends & abbreviations:

- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- **Region wise classification of meteorological Sub-Divisions:**
- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **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

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°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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