

2026-04-10

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

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

Northeast India:

Fairly widespread to widespread light to moderate rainfall with **thunderstorm, lightning gusty winds** (speed reaching 30-40) likely over Assam & Meghalaya during 10th-14th April; with lightning over Arunachal Pradesh during 10th-14th April; Nagaland, Manipur, Mizoram & Tripura on 10th & 11th April.

Isolated heavy rainfall likely over Arunachal Pradesh on 10th & 14th April.

East India:

Isolated to Scattered light to moderate rainfall with **thunderstorm, lightning & gusty winds** (speed reaching 30-40 gusting to 50 kmph) likely over Sub-Himalayan West Bengal & Sikkim during 10th-12th; Odisha on 10th April.

No significant weather over remaining parts of the country

Forecast of maximum/day temperatures:

Gradual rise in maximum temperatures likely over Northwest India by 6-8 °C during 10th-16th April.

Gradual rise in maximum temperatures likely over Central India by 3-5°C likely till 14th April and no significant change on 15th & 16th April.

Gradual rise in maximum temperatures likely over East India by 5-7°C likely till 14th April and no significant change on 15th & 16th April

Gradual rise in maximum temperatures likely over Gujarat State by 2-4 °C till 13th April and no significant change during 14th-16th April.

Gradual rise in maximum temperatures likely over Maharashtra by 2-3 °C till 14th April and no significant change on 15th & 16th April.

No significant change in maximum temperatures likely over rest parts of the country.

Heat wave and Hot & Humid weather warning:

Heat wave conditions very likely in isolated pockets of Chhattisgarh during 14th - 16th April; Odisha on 13th & 14th April.

Hot & humid conditions very likely to prevail in isolated pockets over Gangetic West Bengal during 13th- 15th; Odisha, Coastal Andhra Pradesh & Yanam during 10th - 16th; coastal Maharashtra, Kerala & Mahe on 10th & 11th; coastal areas of Gujarat State during 12th - 16th; Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka during 10th - 12th April.

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Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Sub Himalayan West Bengal & Sikkim; **at a few places** over Gangetic West Bengal, Uttarakhand, Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at isolated places** over Andaman & Nicobar Islands, Bihar, Haryana-Chandigarh-Delhi, Punjab, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal 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): **Sub Himalayan West Bengal & Sikkim:** Gandrapara Tea Garden (dist Jalpaiguri) 6; Gairkata Tea Estate (dist Jalpaiguri), Jaybirpara Tea Estate (dist Alipurduar) 5 Each; Dargaon Tea Estate (dist Alipurduar), Gopalpur Tea Estate (dist Alipurduar) 4 Each.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today):**Heavy rain** at isolated places over Sub Himalayan West Bengal & Sikkim.

❖ **Hailstorm activity** reported at isolated places over Himachal Pradesh

❖ **Minimum Temperature Departures (as on 10-04-2026):** were above normal (1.6°C to 3.0°C) over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal; appreciably below normal (5.0°C to 3.1°C) over Jammu, Kashmir, Himachal Pradesh, Haryana Chandigarh & Delhi, Uttar Pradesh, Bihar, Madhya Pradesh; below normal (3.0°C to 1.6°C) over East Rajasthan, West Bengal & Sikkim, Assam & Meghalaya, Tripura, Mizoram, Jharkhand, Maharashtra and near normal over rest parts of the country. **The lowest minimum temperature of 12.0 °C is observed at Najibabad (West Uttar Pradesh) over the plains of India.**

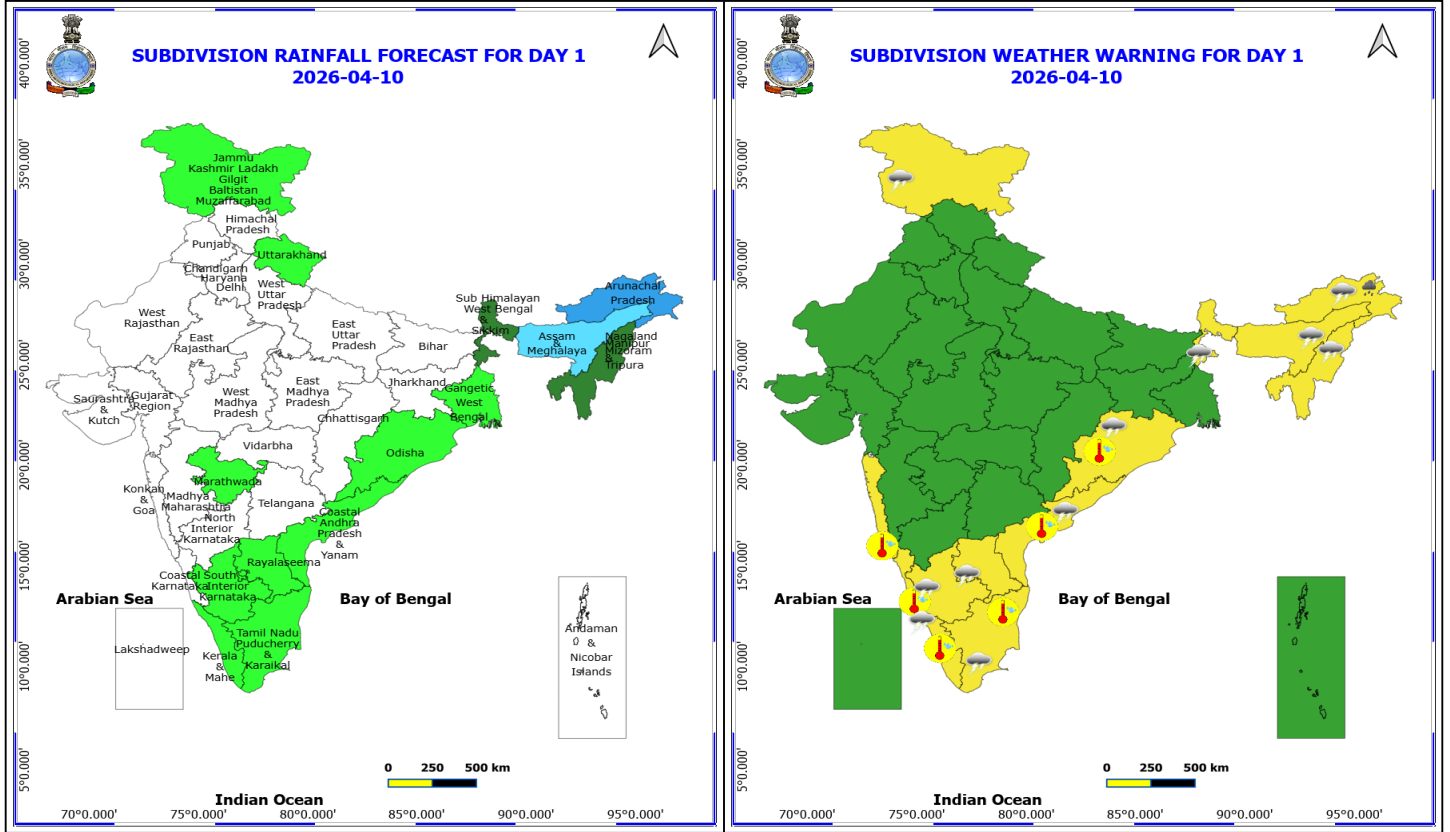
❖ **Maximum Temperature Departures (as on 09-04-2026):** appreciably above normal(3.1°C to 5.0°C) at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at few places over Kerala & Mahe and Lakshadweep; at isolated places over Telangana. **near normal(-1.5°C to 1.5°C)** at many places over Andaman & Nicobar Islands; at most places over Rayalaseema, Coastal Karnataka, North Interior Karnataka and South Interior Karnataka; at few places over Saurashtra & Kutch and Madhya Maharashtra; at isolated places over Gangetic West Bengal, Odisha, Bihar, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Marathwada and Vidarbha. **The highest maximum temperature** of 41.2°C was reported at CUDDAPAH (ANDHRA PRADESH).

Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance as a trough** in middle level sub tropical westerlies with its axis at 5.8 km above mean sea level roughly along Long. 64°E to the north of Lat. 34°N persists.
- An **upper air cyclonic circulation** lies over Northeast Bihar & neighbourhood at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood persists and now seen at 1.5 km above mean sea level with a trough aloft at 3.1 km above mean sea level runs roughly along Long. 93°E to the north of Lat. 25°N.
- The **north-south trough/wind discontinuity** from interior Odisha to Gulf of Mannar across south Chhattisgarh, Telangana, Rayalaseema, interior Tamil Nadu at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over North Tamilnadu & neighbourhood at 1.5 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 feeble **Western Disturbance** is likely to affect Western Himalayan Region from 15th April, 2026.
- The **upper air cyclonic circulation** over Bangladesh & neighbourhood at 0.9 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

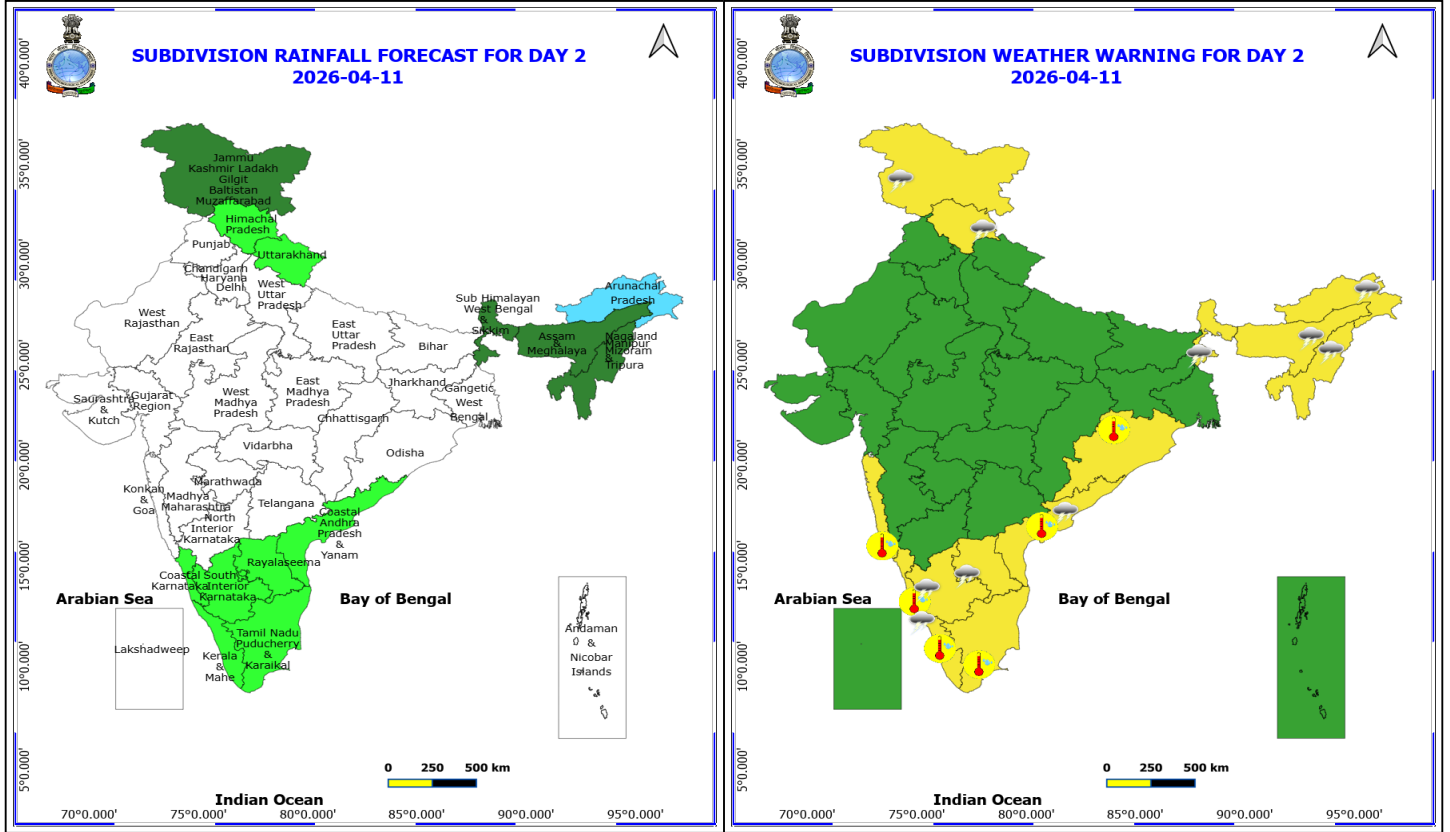
- Widespread rainfall activity likely over Northeast India, Jammu & Kashmir adjoining Punjab, Himachal Pradesh, Tamil Nadu and Isolated rainfall activity over Uttarakhand & adjoining plains of western himalayan region, Central India, Odisha & adjoining Coastal Andhra Pradesh.



10 April (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Coastal Karnataka, Kerala & Mahe, Konkan & Goa, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ Squally weather with wind speed 40 – 50 kmph gusting to 60 kmph likely to prevail over South Andaman Sea.

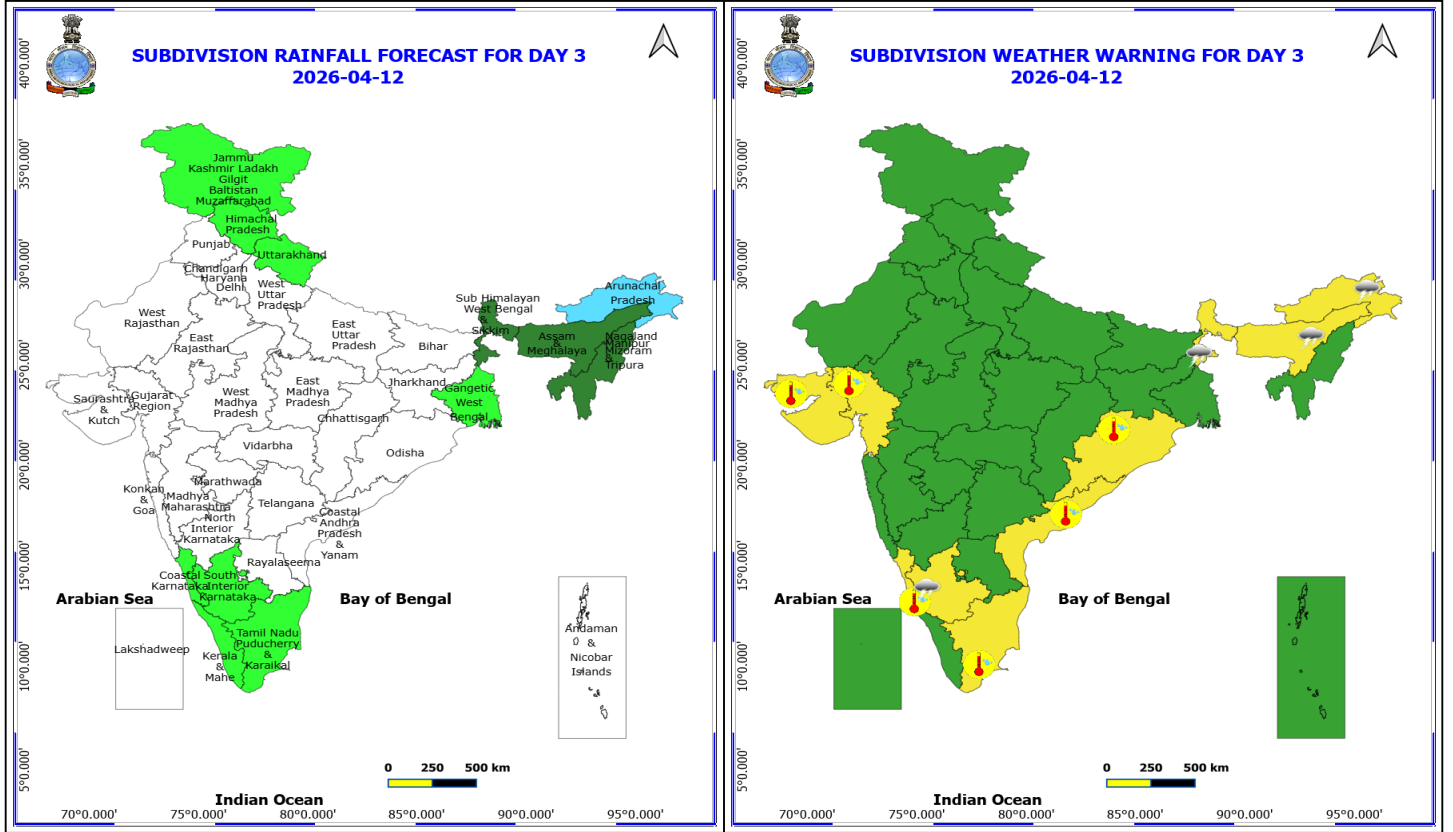
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11 April (Day 2)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Himachal Pradesh, Rayalaseema and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Andhra Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura and South Interior Karnataka.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Coastal Karnataka, Kerala & Mahe, Konkan & Goa, Odisha and Tamil Nadu Puducherry & Karaikal.

No Fishermen Warning



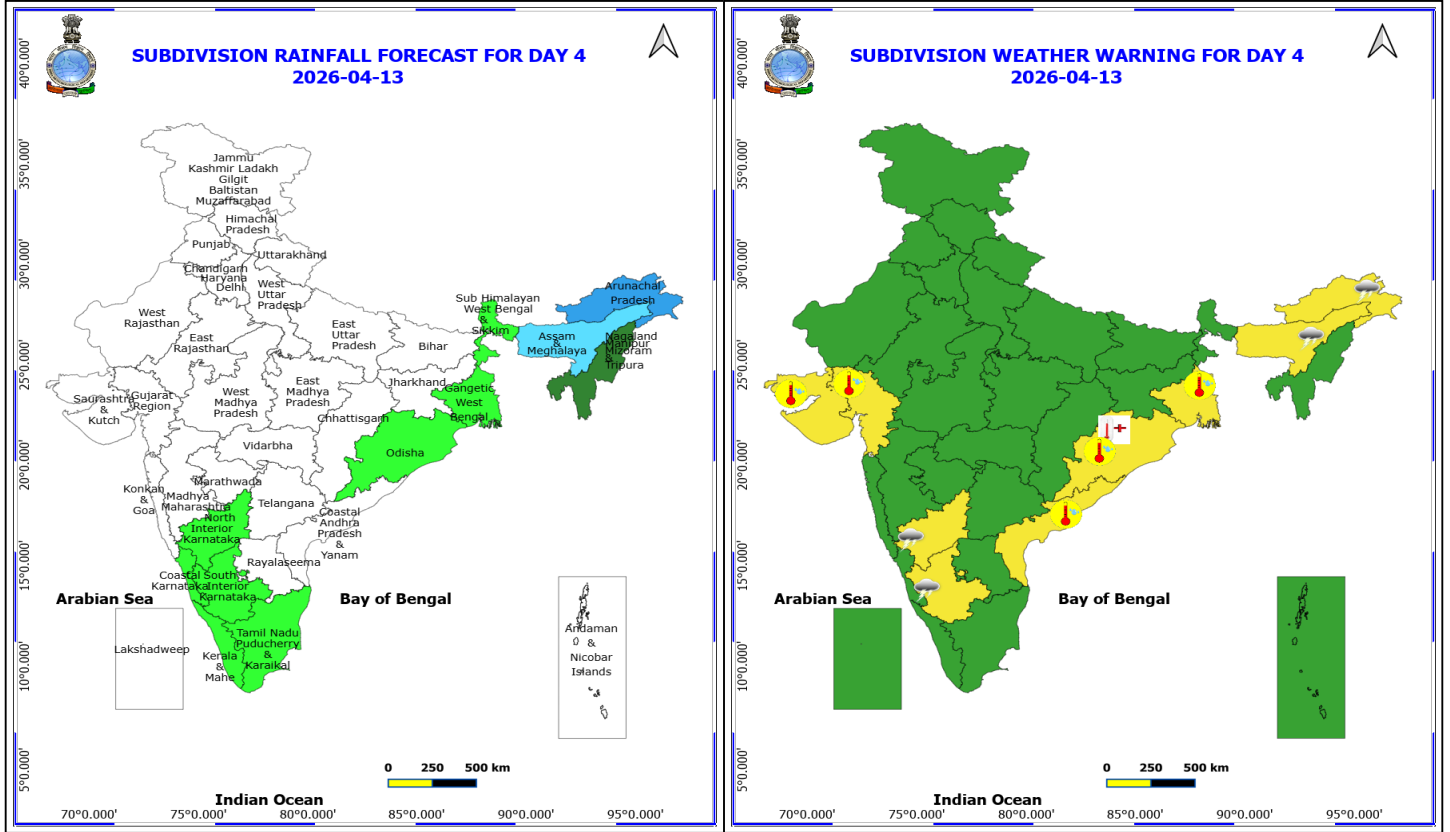
12 April (Day 3)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and South Interior Karnataka.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Coastal Karnataka, Gujarat State, Odisha and Tamil Nadu Puducherry & Karaikal.

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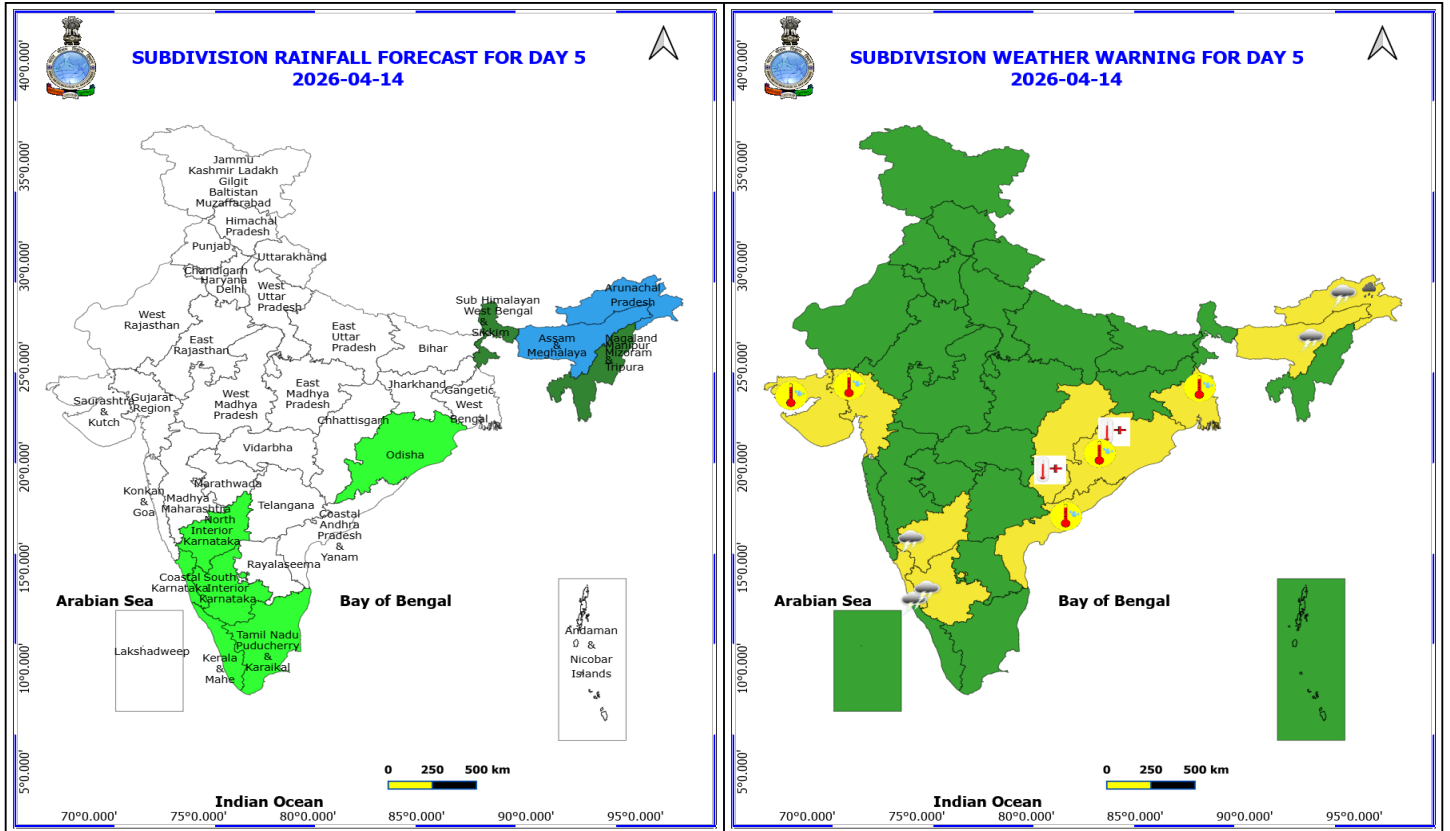
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13 April (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Interior Karnataka.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh.
- ❖ **Heat Wave conditions** likely at isolated places over Odisha.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Gujarat State and Odisha.

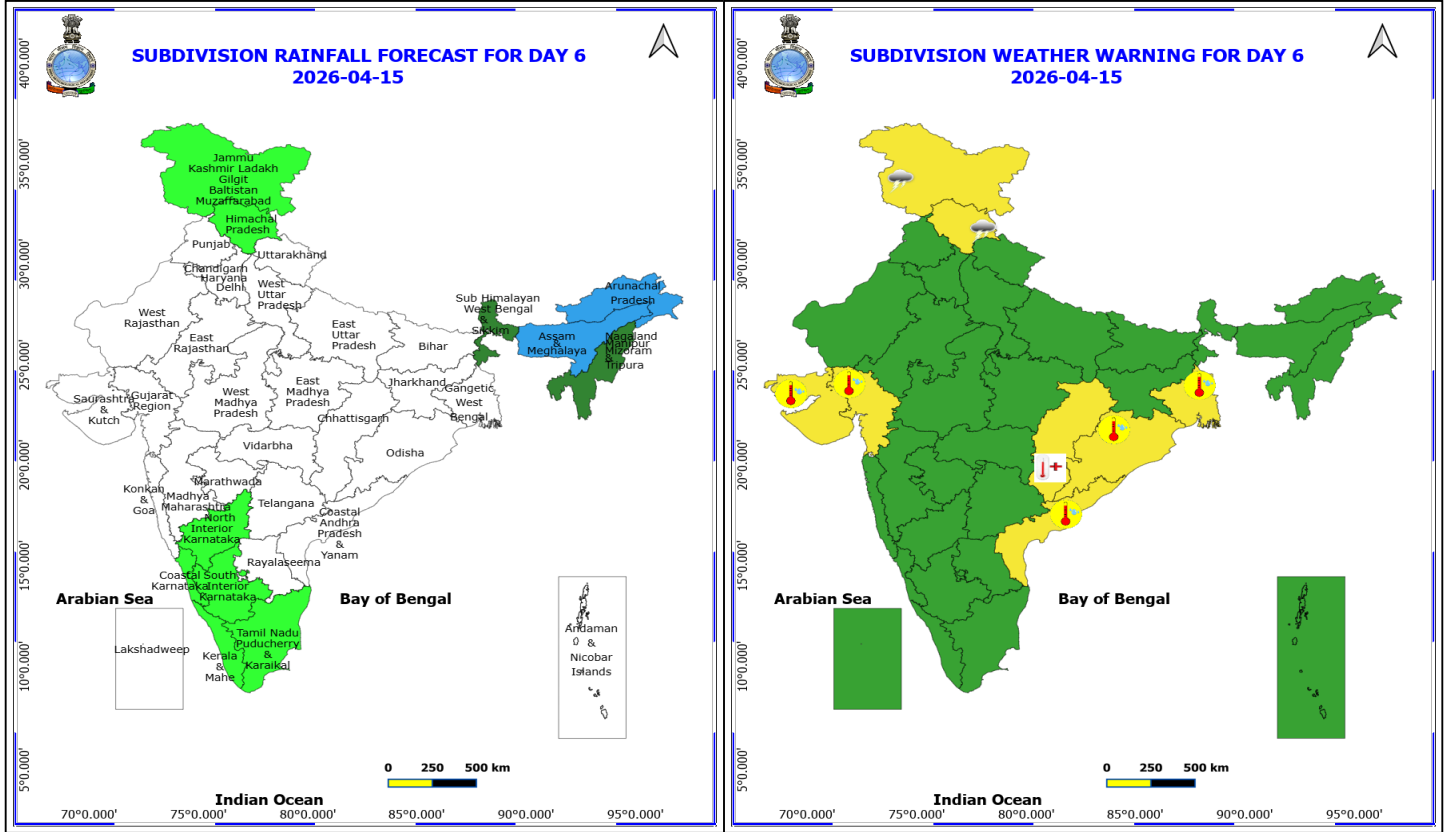
No Fishermen Warning



14 April (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya and Interior Karnataka.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh and Coastal Karnataka.
- ❖ **Heat Wave conditions** likely at isolated places over Chhattisgarh and Odisha.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Gujarat State and Odisha.

No Fishermen Warning

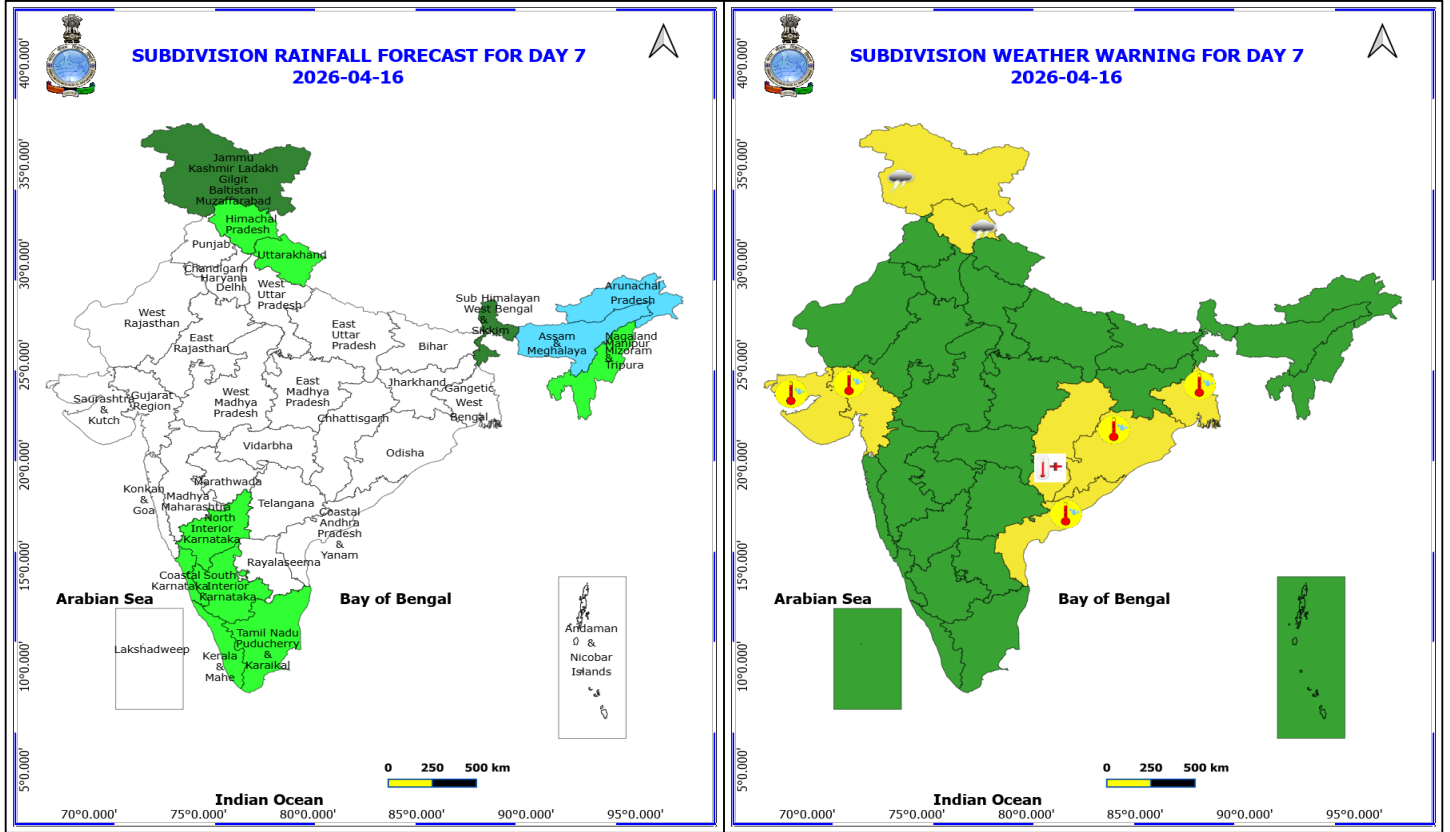


15 April (Day 6)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heat Wave conditions** likely at isolated places over Chhattisgarh.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Gujarat State and Odisha.

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16 April (Day 7)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heat Wave conditions** likely at isolated places over Chhattisgarh.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Gujarat State and Odisha.

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	10- Apr	11- Apr	12- Apr	13- Apr	14- Apr	15- Apr	16- Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	WS	FWS	FWS	WS	WS	WS	FWS
3	ASSAM & MEHGHALAYA	FWS	SCT	SCT	FWS	WS	WS	FWS
4	N. M. M. & T.	SCT	SCT	SCT	SCT	SCT	SCT	ISOL
5	S.H. WEST BENGAL & SIKKIM	SCT	SCT	SCT	ISOL	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	ISOL	DRY	ISOL	ISOL	DRY	DRY	DRY
7	ODISHA	ISOL	DRY	DRY	ISOL	ISOL	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	ISOL	ISOL	DRY	DRY	DRY	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	ISOL	SCT	ISOL	DRY	DRY	ISOL	SCT
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	ISOL	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	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
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 2026-04-09

Fig. 2: Departure of Maximum Temp. Dated 2026-04-09

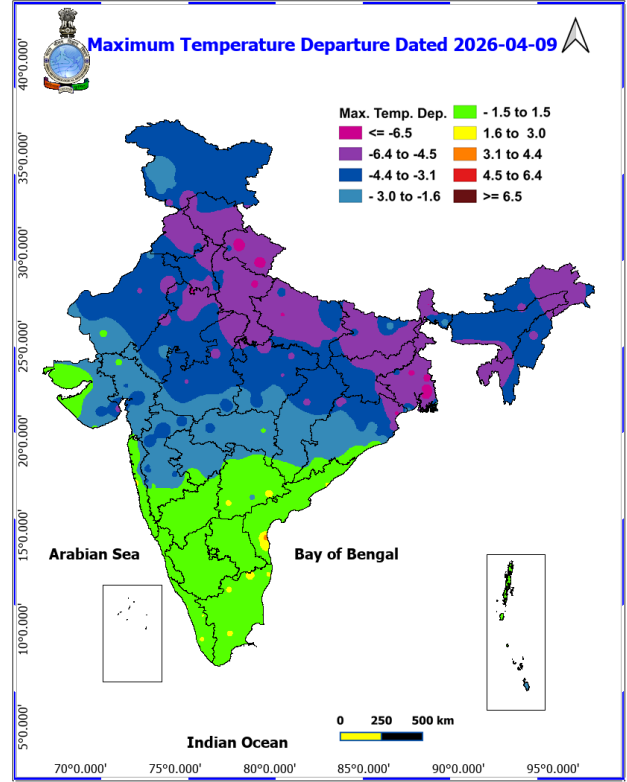
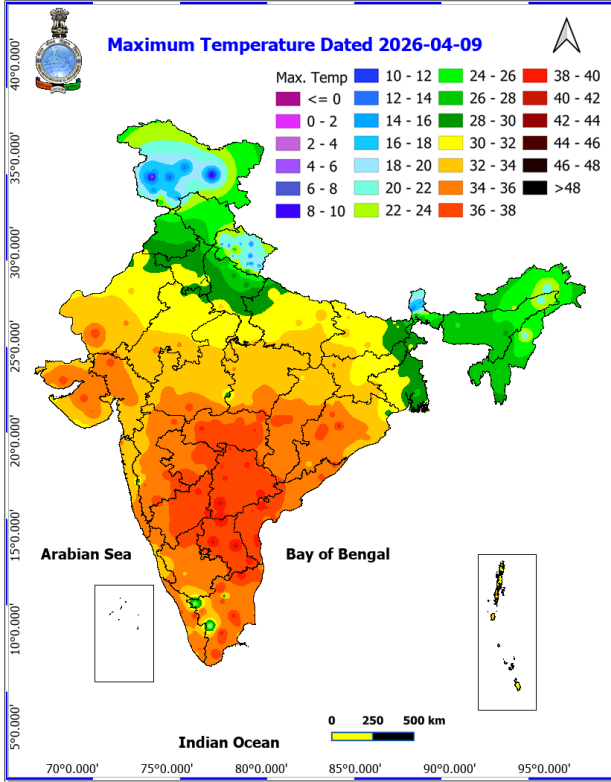
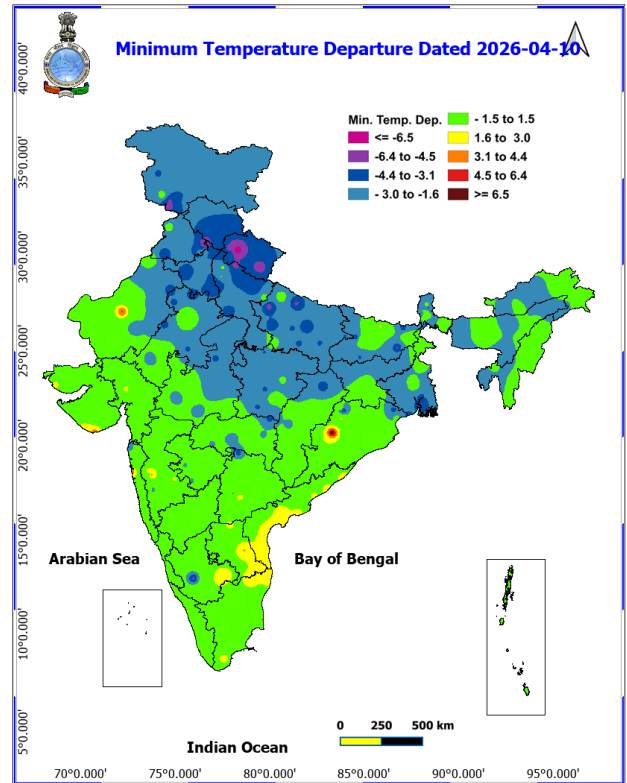
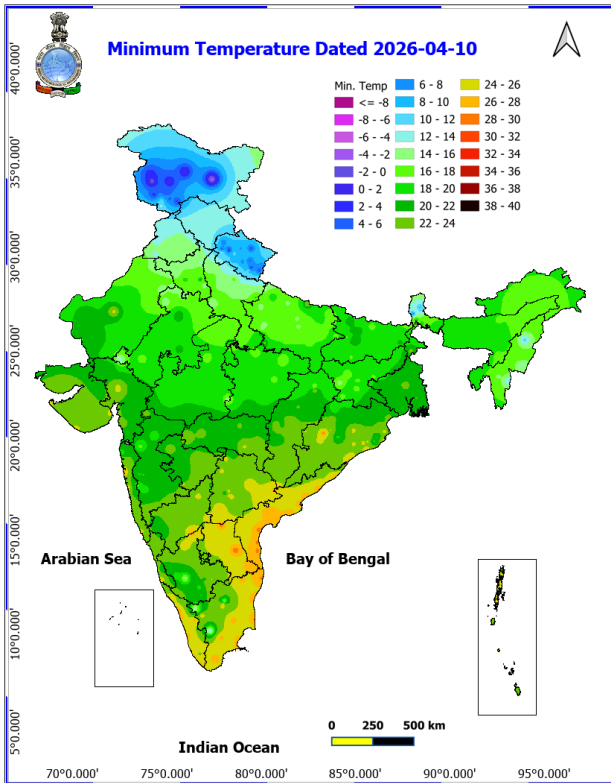
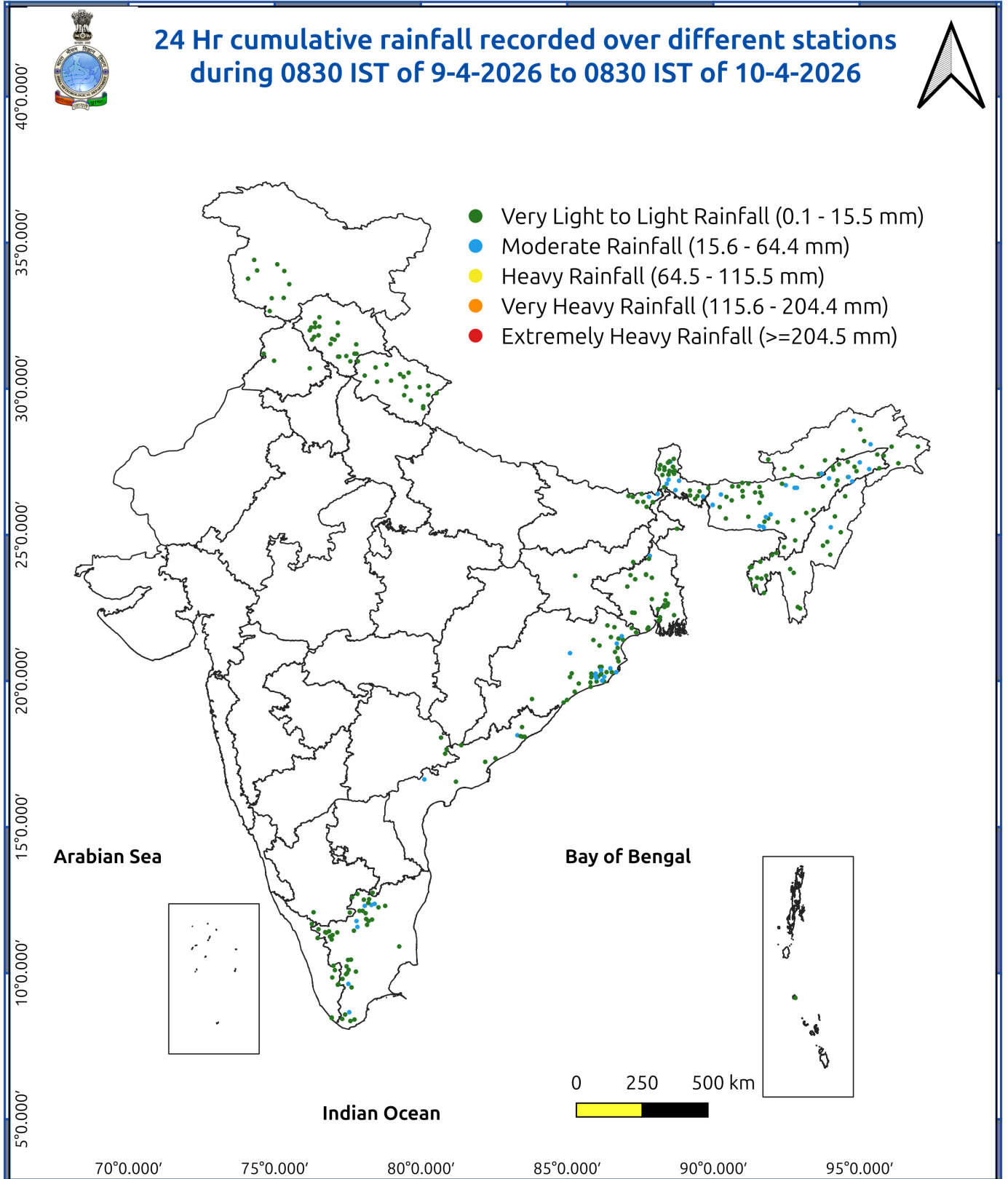


Fig. 3: Minimum Temperatures Dated 2026-04-10

Fig. 4: Departure of Minimum Temp. Dated 2026-04-10





Impact and Actions

Impact & suggested due to Extremely and heavy to very heavy rainfall over

- **Isolated heavy rainfall** likely over Arunachal Pradesh on 10th & 14th April.

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 Heavy Rainfall

In **Arunachal Pradesh**, ensure proper drainage channels in the fields of rice, maize, other standing crops, vegetables and orchards. Harvest cabbage, pea, mustard, late-maturing paddy varieties & potatoes carefully and shift the harvested produce to safe places.

Agromet advisories for likely impact of High temperatures/ Heat Waves

In **Odisha**, provide light irrigation to *Boro* paddy, summer maize, green gram, black gram, groundnut and vegetables fields. Maintain appropriate soil moisture in mango and cashew.

In **Chhattisgarh**, complete harvesting of wheat and chickpea and ensure safe storage. Irrigate summer maize, green gram and vegetables. Maintain soil moisture in mango and litchi.

In **Konkan**, provide light and frequent irrigation to paddy, green gram, groundnut, vegetables and newly planted arecanut and coconut. Cover the banana bunches with leaves or gunny bags.

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 / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry

Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.

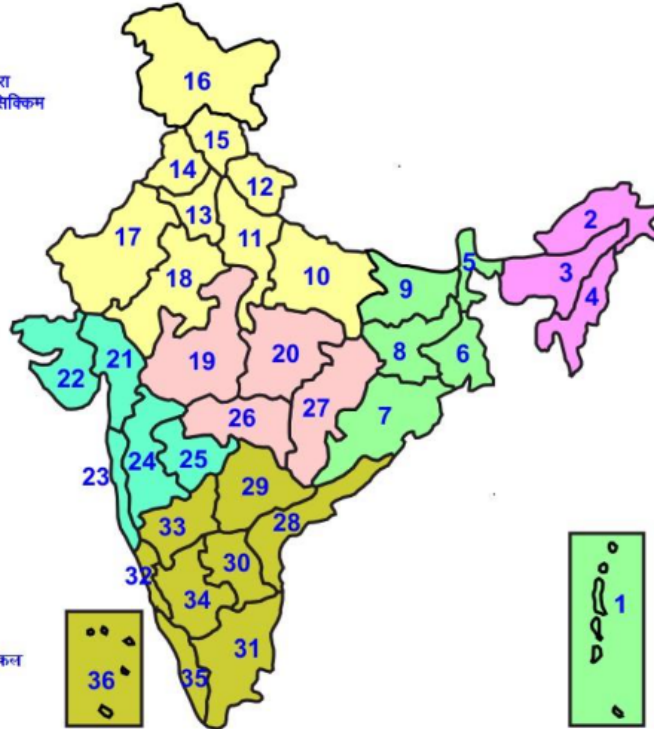


Store feed and fodder in a safe place to prevent spoilage.

Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

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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