

2026-04-08

Time of Issue: 07:53:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

Northwest India:

- **Fairly widespread to widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 Kmph) likely over Jammu-Kashmir, Himachal Pradesh & Uttarakhand on 08th April; **Isolated to Scattered** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 Kmph) likely over Jammu-Kashmir on 09th & 10th April, Himachal Pradesh & Uttarakhand on 09th April; **Scattered to fairly widespread** light to moderate rainfall with isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 Kmph) likely over Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh & East Rajasthan on 08th April.
- **Isolated hailstorm activity** also likely over Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh Himachal Pradesh, Uttarakhand and East Uttar Pradesh on 08th April.
- **Isolated heavy rainfall** likely over Himachal Pradesh on 08th April.

Northeast India:

- **Scattered to Fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds** (speed reaching 30-40 kmph) likely over Arunachal Pradesh during 08th - 13th April; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 08th - 11th April.
- **Isolated heavy rainfall** likely over Arunachal Pradesh on 09th & 12th; Assam & Meghalaya on 08th & 09th April.

East India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph gusting to 60 kmph) likely over East India during next 3-4 days.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Gangetic West Bengal on 08th April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Sub-Himalayan West Bengal & Sikkim on 08th; Jharkhand & Bihar on 08th April.
- **Isolated Hailstorm activity** likely over Bihar and Jharkhand on 08th April.
- **Isolated heavy rainfall** likely over Gangetic West Bengal and Odisha on 08th April.

Central India:

- **Isolated to scattered** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 40-50 kmph) likely over Madhya Pradesh on 08th; Chhattisgarh on 08th - 09th April.
- **Isolated Hailstorm activity** likely over Madhya Pradesh & Chhattisgarh on 08th April.

South Peninsular India:

- **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph) likely over Coastal Andhra Pradesh & Yanam, Rayalaseema during 08th - 10th, Telangana on 08th & 9th and South Interior Karnataka during 9th - 11th April; North Interior Karnataka on 11th April ; with lightning over Tamil Nadu during 08th & 09th April: Kerala, Mahe during 09th - 11th April ; South Interior Karnataka on 08th April, Coastal Karnataka on 11th April.

Hot & Humid weather Warnings:

- **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala on 08th & 9th April;

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Coastal Karnataka during 9th - 11th and Gujarat State during 11th -13th April.

Forecast of maximum/day temperatures:

- Fall in maximum temperatures by 3-5 °C likely over Northwest India till 08th April and gradual rise by 5-7°C during 09th -13th April.
- No significant change in maximum temperatures likely over Central India till 08th and gradual rise by 3-5°C during 09th -13th April.
- No significant change in maximum temperatures likely over East India till 09th; gradual fall by 4-6°C during 10th -13th April.
- No significant change in maximum temperatures likely over Northeast India till 08th; gradual fall by 3-4°C on 8th & 9th; No significant change on 10th April; thereafter again fall by 2-3°C.
- No significant change in maximum temperatures likely over West India till 08th and gradual rise by 2-4°C during 09th -13th April.
- No significant change in maximum temperatures likely over rest parts of the country.
- **Overall, Day temperatures are likely to remain below normal to near normal over most part of northwest, central & east India during next 5 days and gradually become above normal thereafter.**

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Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Andaman & Nicobar Islands, West Rajasthan, Sub-himalayan West Bengal & Sikkim, Jammu & Kashmir and Ladakh, Gangetic West Bengal, Punjab, Assam & Meghalaya, Arunachal Pradesh, Himachal Pradesh, Haryana Chandigarh & Delhi, Uttarakhand and Nagaland, Manipur, Mizoram & Tripura; **at many places** over Odisha, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Gujarat Region, East Madhya Pradesh, West Uttar Pradesh, East Uttar Pradesh, Bihar, East Rajasthan, West Madhya Pradesh and Jharkhand; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Odisha:** Balasore (dist Balasore), Chandbali (dist Bhadrak) 4 each; Jammu & Kashmir And Ladakh: Jammu (dist Jammu), Katra (dist Reasi) 4 Each, Batote (dist Doda) 3, Bhaderwah (dist Doda) 2, Banihal (dist Doda) 1; **Punjab:** Chandigarh (dist Chandigarh) 4, Patiala (dist Patiala), Amritsar (rajasansi) AP (dist Amritsar) 1 Each; **Assam & Meghalaya:** Silchar (dist Cachar), Cherrapunji (dist East Khasi Hills) 3 Each, North Lakhimpur (dist Lakhimpur), Guwahati (dist Kamrup Metropolitan) 1 Each; **Arunachal Pradesh:** Pasighat (dist East Siang) 3, Itanagar (dist Papum Pare) 1; **Himachal Pradesh:** Sundernagar (dist Mandi) 3; Haryana Chandigarh & Delhi: Ambala (dist Ambala) 2, New Delhi (safdarjung) (dist South West Delhi) 1; **East Rajasthan:** Ajmer (dist Ajmer) 2, Jaipur (dist Jaipur) 1; **Gangetic West Bengal:** Kolkata (dum Dum) A/P (dist North 24 Parganas) 2, Digha (dist North 24 Parganas) 1; **West Madhya Pradesh:** Gwalior (dist Gwalior) 1; **Uttarakhand:** Dehra Dun-mokampur (dist Dehradun) 1; **Jharkhand:** Ranchi AP (dist Ranchi) 1; **Nagaland, Manipur, Mizoram & Tripura:** Dimapur (dist Dimapur), Imphal (tulihal) AP (dist Imphal East), Aizawl-lengpui (dist Mamit) 1 Each.

❖ **Minimum Temperature Departures (as on 07-04-2026):** **markedly above normal(> 5.1°C)** at isolated places over Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Bihar, Punjab, East Rajasthan, East Madhya Pradesh, Saurashtra & Kutch and Konkan & Goa. **above normal(1.6°C to 3.0°C)** at few places over Arunachal Pradesh, Punjab, West Rajasthan, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Rayalaseema and Lakshadweep; at isolated places over Sub Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Sub Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; at most places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Gujarat Region and Telangana; at few places over Arunachal Pradesh, Odisha, Punjab, Himachal Pradesh, West Rajasthan, East Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Marathwada, Vidarbha, Rayalaseema and South Interior Karnataka; at isolated places over Gangetic West Bengal and Jharkhand. **The lowest minimum temperature of 15.4 °C is observed at Orai (West Uttar Pradesh) over the Plains of India.**

❖ **Maximum Temperature Departures (as on 07-04-2026):** **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at few places over Sub Himalayan West Bengal & Sikkim and Lakshadweep; at isolated places over Assam & Meghalaya, Odisha, Bihar, Telangana, Rayalaseema, South Interior Karnataka and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Konkan & Goa and Coastal Karnataka; at most places over Andaman & Nicobar Islands; at few places over Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Madhya Maharashtra, Chhattisgarh and North Interior Karnataka; at isolated places over Gangetic West Bengal, West Uttar Pradesh, Himachal Pradesh, East Rajasthan, Saurashtra & Kutch, Marathwada and Vidarbha. **The highest maximum temperature of 42.2°C was reported at VELLORE-OBS (TAMIL NADU).**

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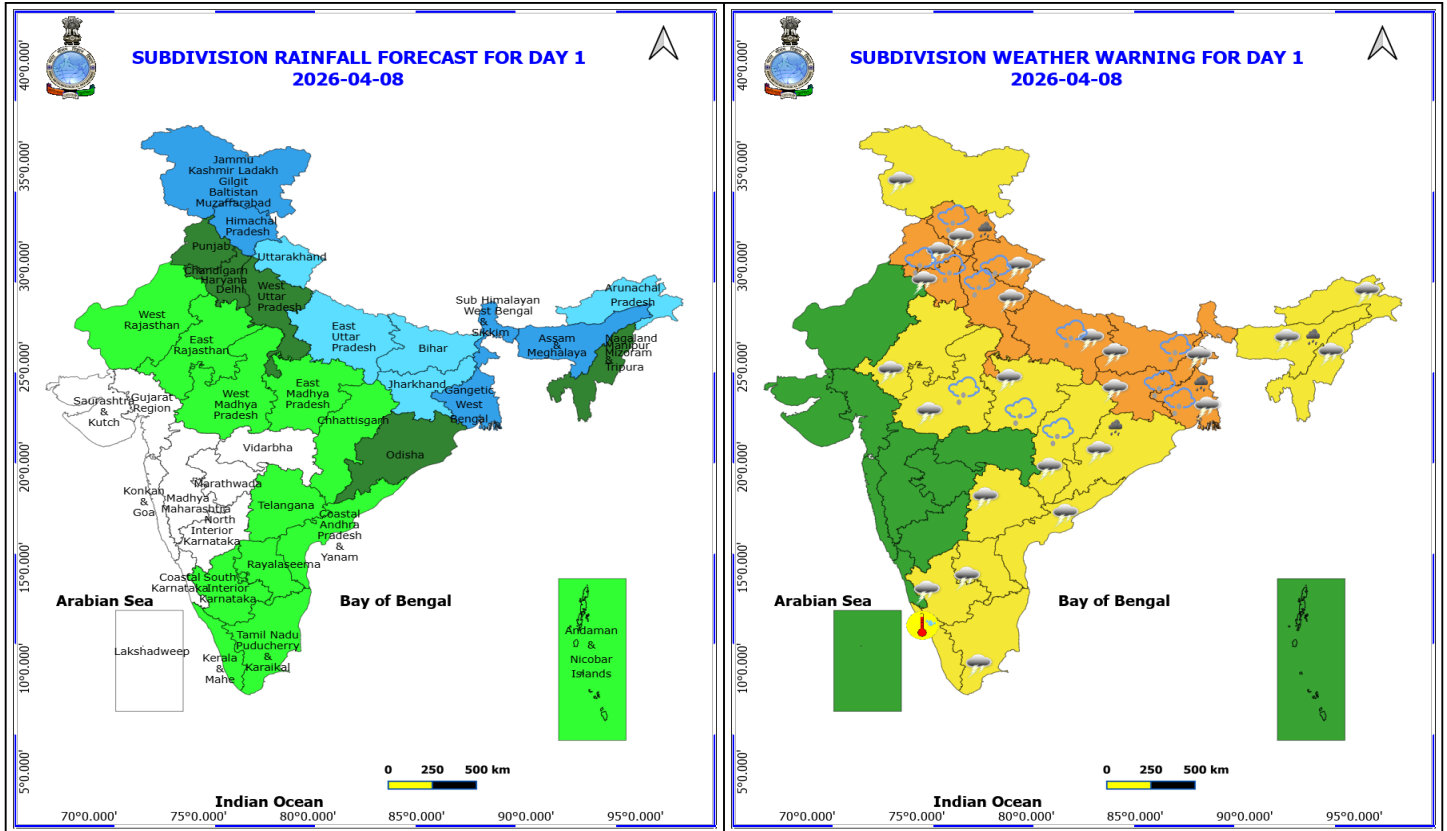
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Meteorological Analysis (Based on 0530 hours IST)

- The **Western Disturbance as a cyclonic circulation** over north Pakistan adjoining Jammu & Kashmir between 3.1 & 5.8 km above mean sea level with a trough aloft in middle & upper level tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 72°E to the north of Lat. 30°N.
- The **induced upper air cyclonic circulation** over central Pakistan extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over northeast Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over East Uttar Pradesh extending upto 1.5 km above mean sea level persists
- The **upper air cyclonic circulation** over central Assam & neighbourhood extending upto 1.5 km above mean sea level with a trough aloft in westerlies at 3.1 km above mean sea level roughly along Long. 93°E to the north of Lat. 26°N persists.
- The **trough/wind discontinuity** from **Gangetic West Bengal** to **Gulf of Mannar** across Odisha, Telangana, Rayalaseema and Tamil Nadu at 0.9 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 100 knots at 12.6 km above mean sea level prevails over East & Northeast India.
- A fresh **Western Disturbance** is likely to affect Western Himalayan Region from 11th April, 2026.
- The **upper air cyclonic circulation** over northwest Uttar Pradesh & neighbourhood at 3.1 km above mean sea level has become less marked.



8 April (Day 1)

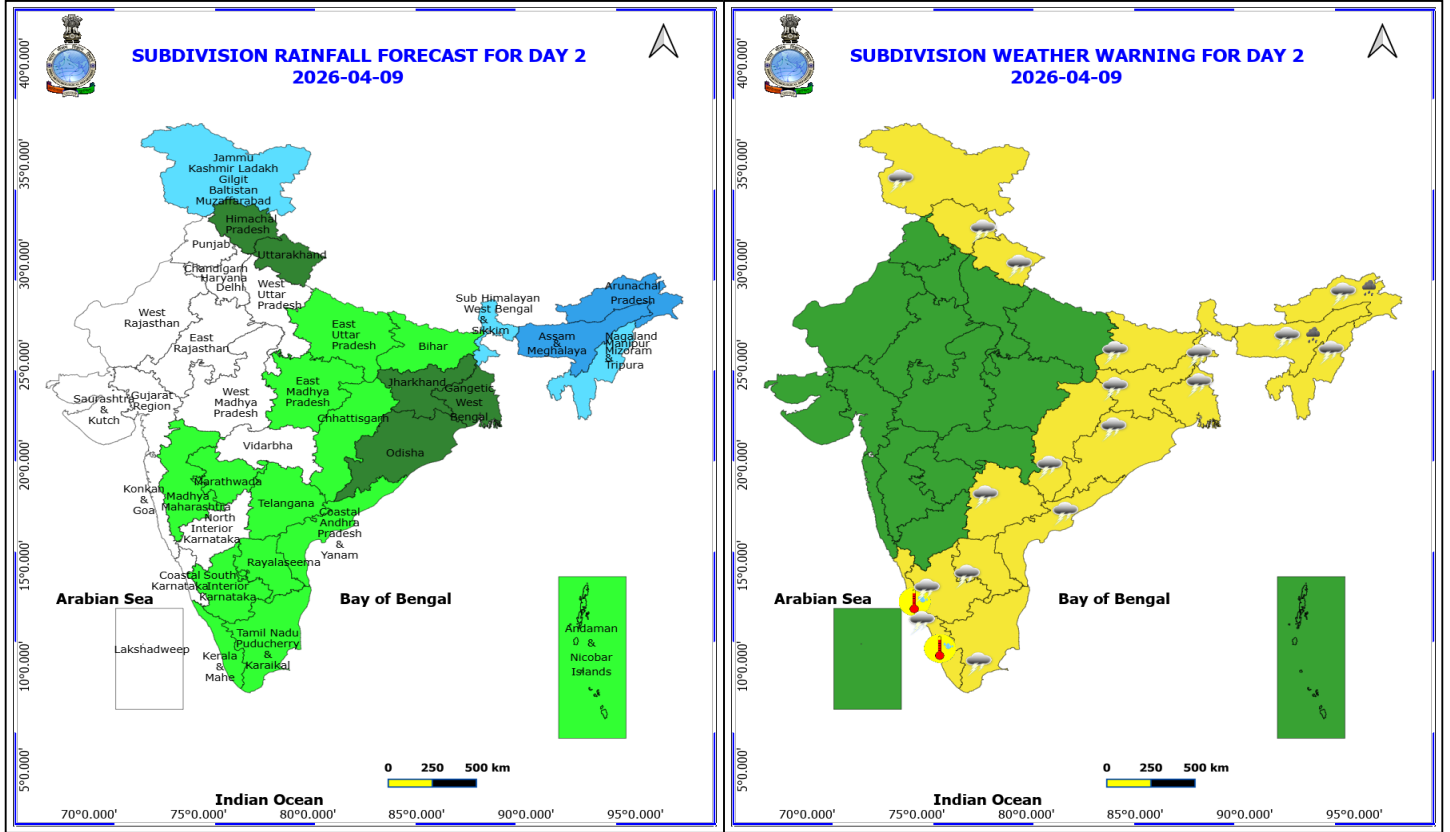
- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Gangetic West Bengal, Himachal Pradesh and Odisha.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Bihar, Chhattisgarh, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jharkhand, Madhya Pradesh, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(60-70kmph) gusting to 80 kmph** very likely at isolated places over Gangetic West Bengal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Jharkhand and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, East Rajasthan, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **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 Kerala & Mahe.

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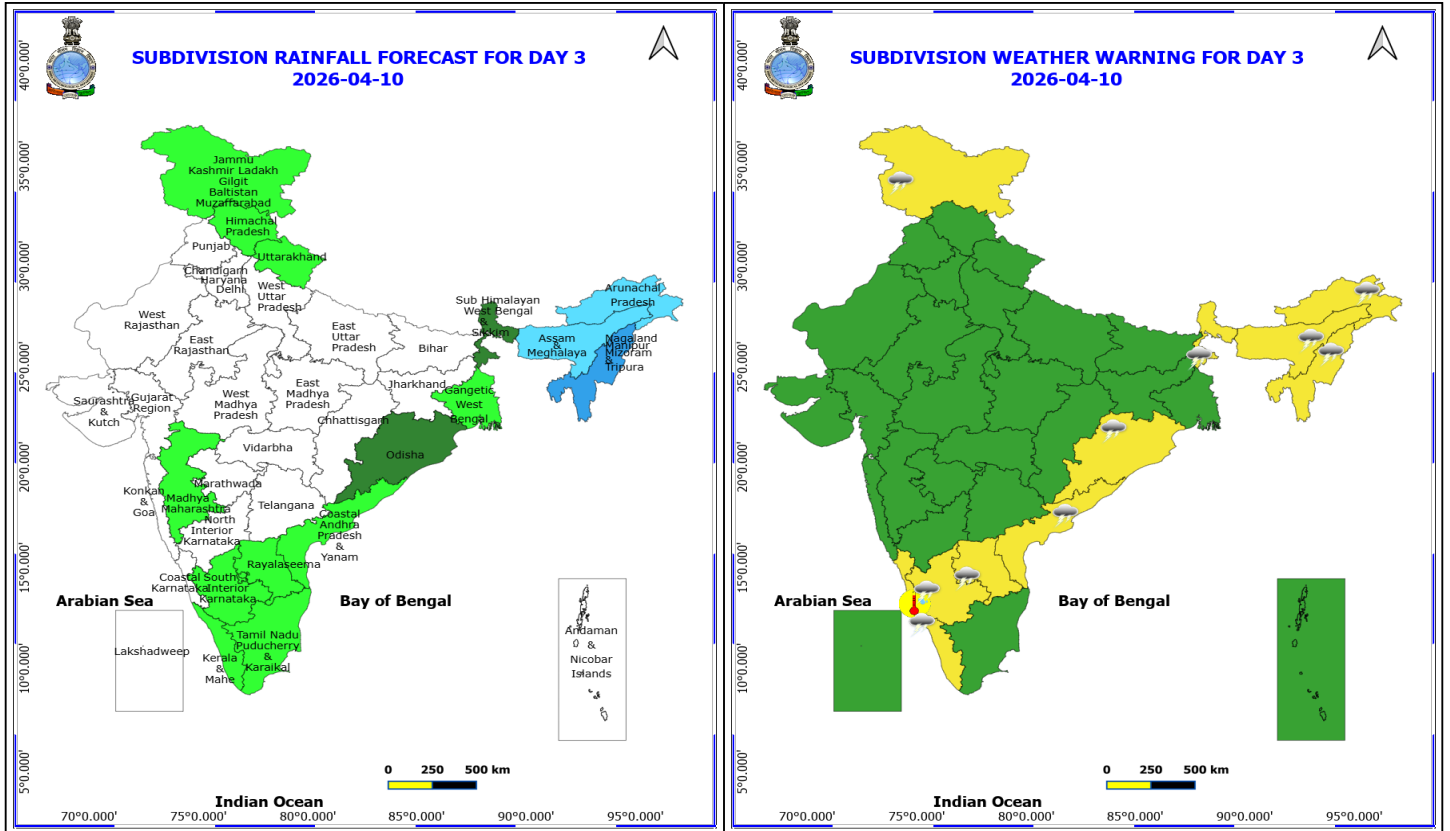
- ❖ Squally weather with wind speed 40 – 50 kmph gusting to 60 kmph likely to prevail over along and off Gangetic west Bengal adjoining north Odisha coasts.
- ❖ Squally wind with speed 45 – 55 kmph gusting to 65 kmph likely to prevail over Gulf of Khambhat.



9 April (Day 2)

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

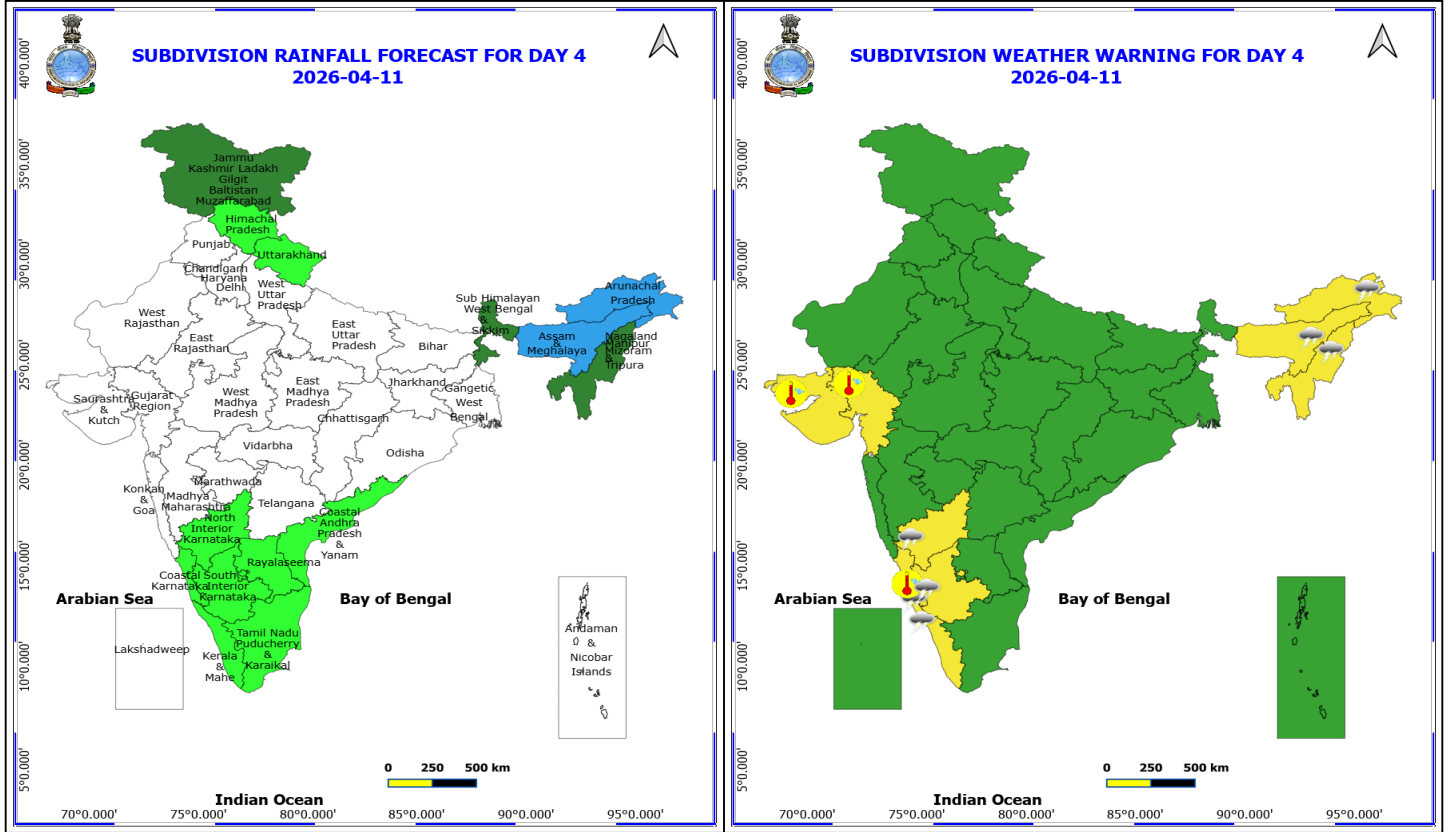
No Fishermen Warning



10 April (Day 3)

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

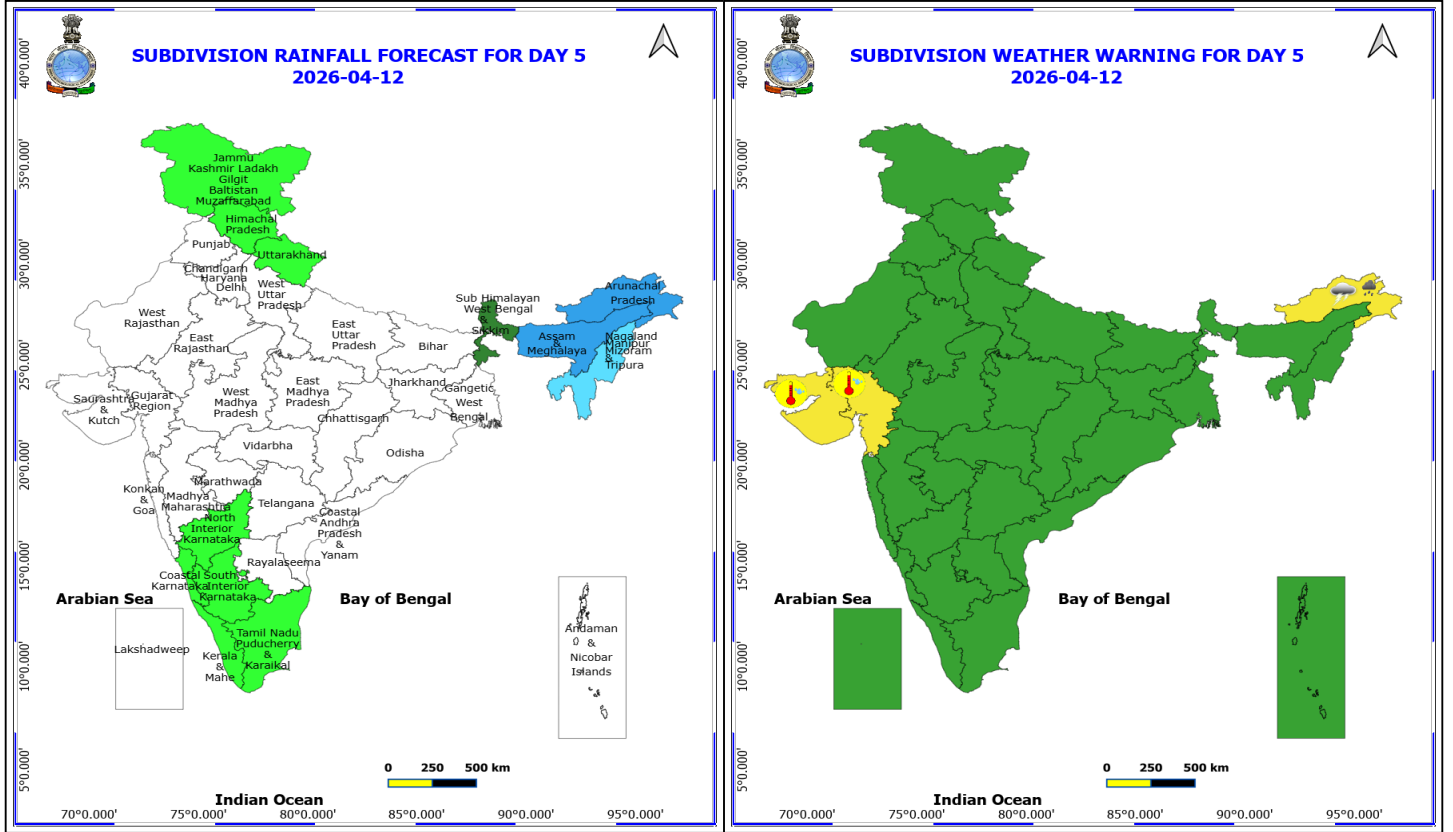
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11 April (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Arunachal Pradesh and Interior Karnataka.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Assam & Meghalaya, Coastal Karnataka, Kerala & Mahe and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Karnataka and Gujarat State.

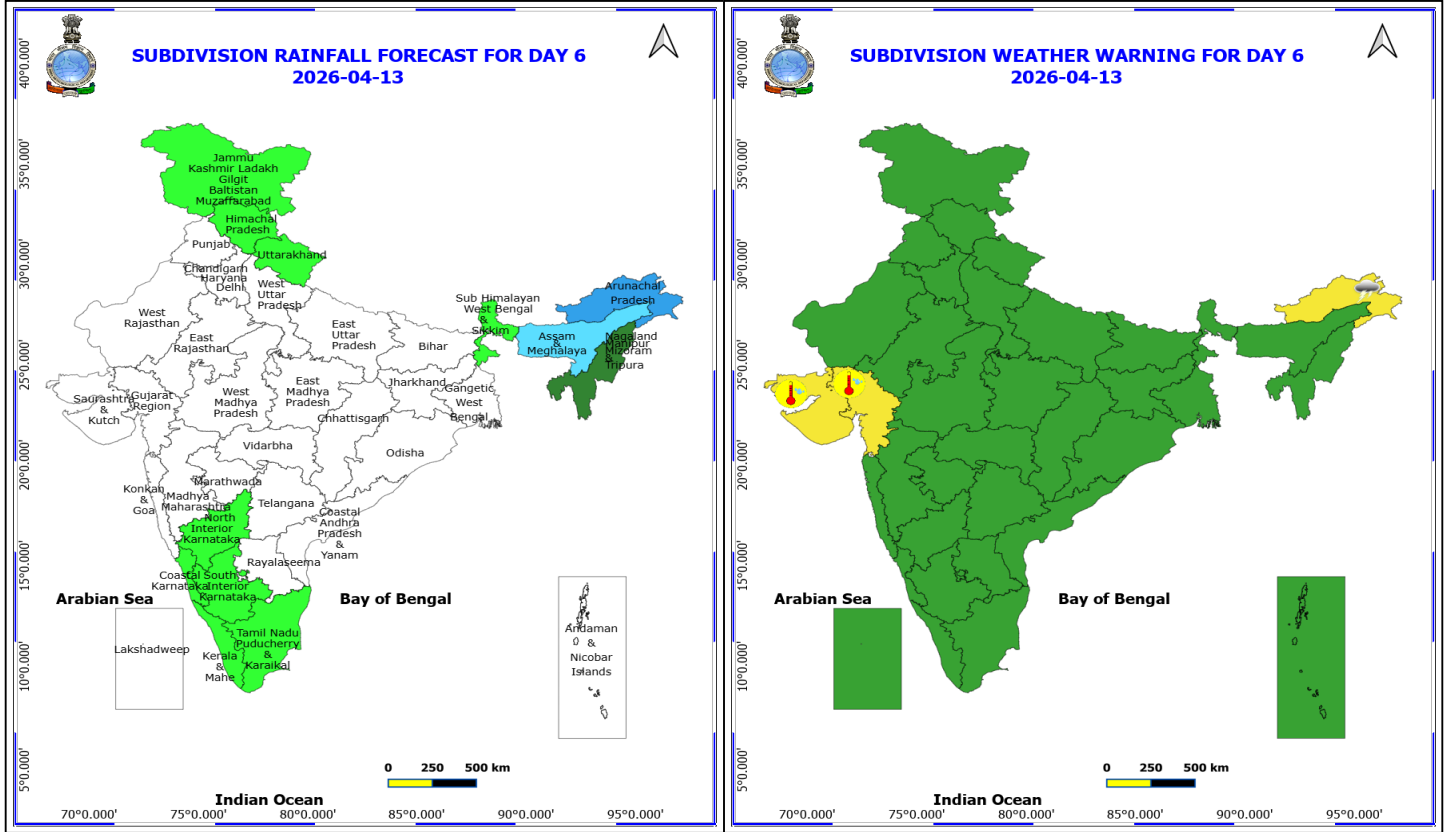
No Fishermen Warning



12 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 Arunachal Pradesh.
- ❖ **Hot and Humid weather** likely at isolated places over Gujarat State.

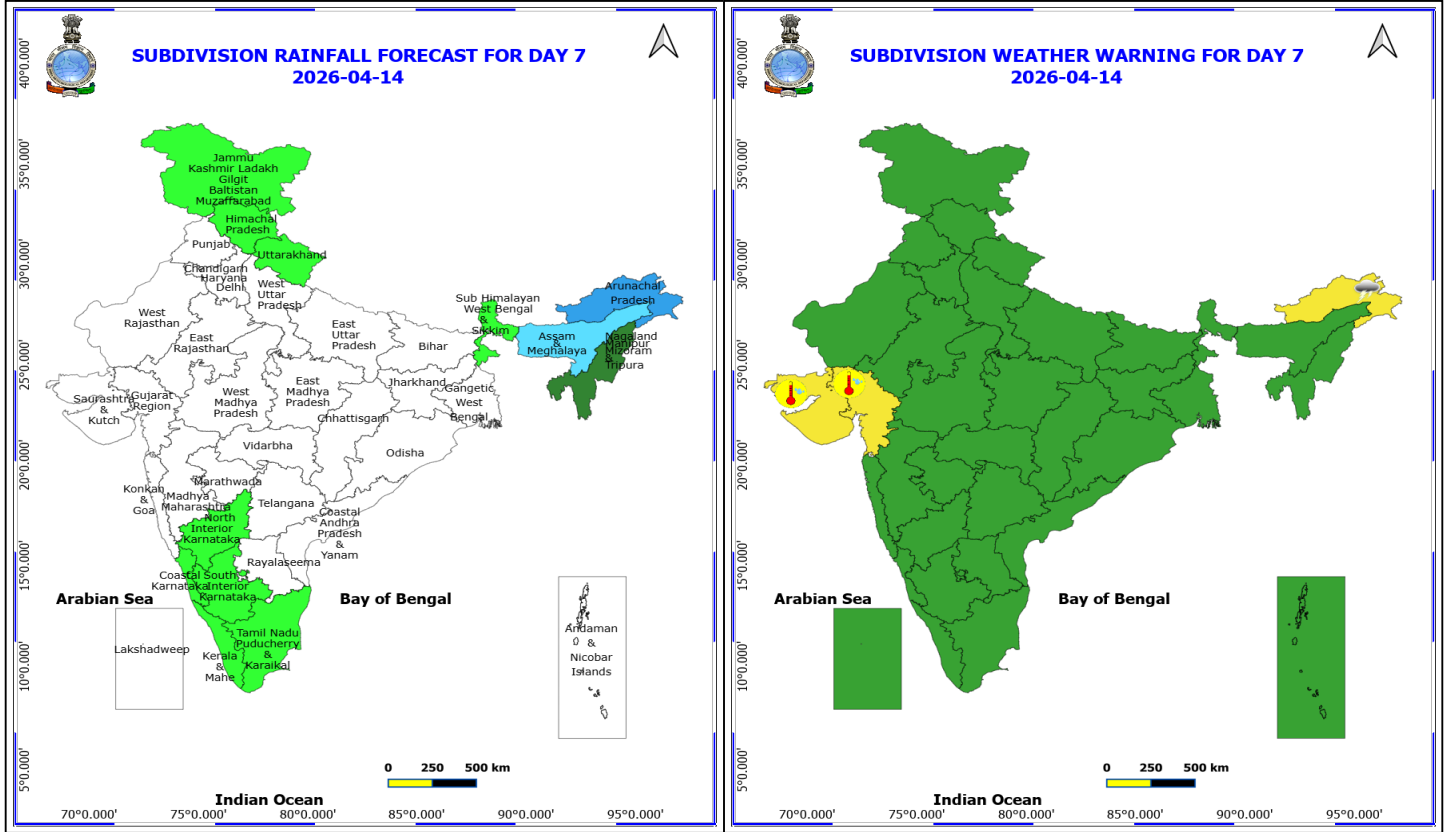
No Fishermen Warning



13 April (Day 6)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Arunachal Pradesh.
- ❖ **Hot and Humid weather** likely at isolated places over Gujarat State.

No Fishermen Warning



14 April (Day 7)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Arunachal Pradesh.
- ❖ **Hot and Humid weather** likely at isolated places over Gujarat State.

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	8- Apr	9- Apr	10- Apr	11- Apr	12- Apr	13- Apr	14- Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	FWS	WS	FWS	WS	WS	WS	WS
3	ASSAM & MEHGHALAYA	WS	WS	FWS	WS	WS	FWS	FWS
4	N. M. M. & T.	SCT	FWS	WS	SCT	FWS	SCT	SCT
5	S.H. WEST BENGAL & SIKKIM	WS	FWS	SCT	SCT	SCT	ISOL	ISOL
6	GANGETIC WEST BENGAL	WS	SCT	ISOL	DRY	DRY	DRY	DRY
7	ODISHA	SCT	SCT	SCT	DRY	DRY	DRY	DRY
8	JHARKHAND	FWS	SCT	DRY	DRY	DRY	DRY	DRY
9	BIHAR	FWS	ISOL	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	FWS	ISOL	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	SCT	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	SCT	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	SCT	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	WS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	WS	FWS	ISOL	SCT	ISOL	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	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	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
29	TELANGANA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	DRY	DRY	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 2026-04-07

Fig. 2: Departure of Maximum Temp. Dated 2026-04-07

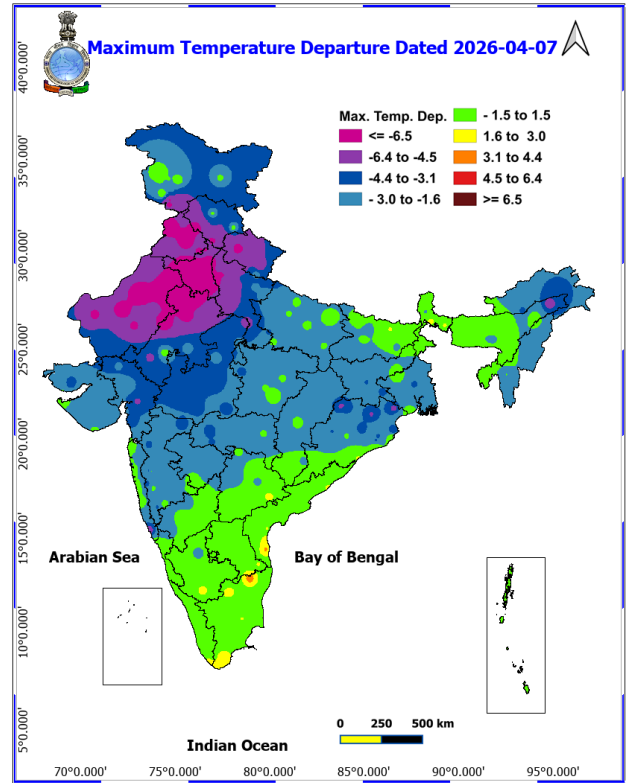
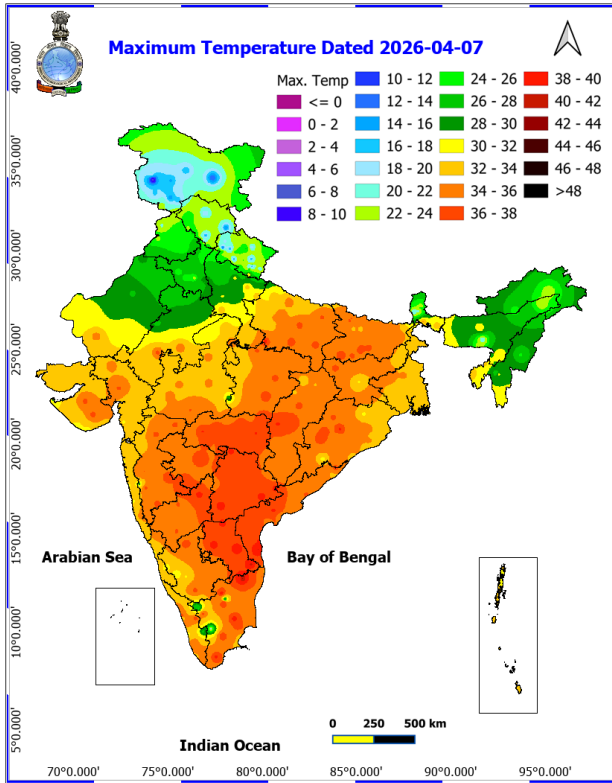
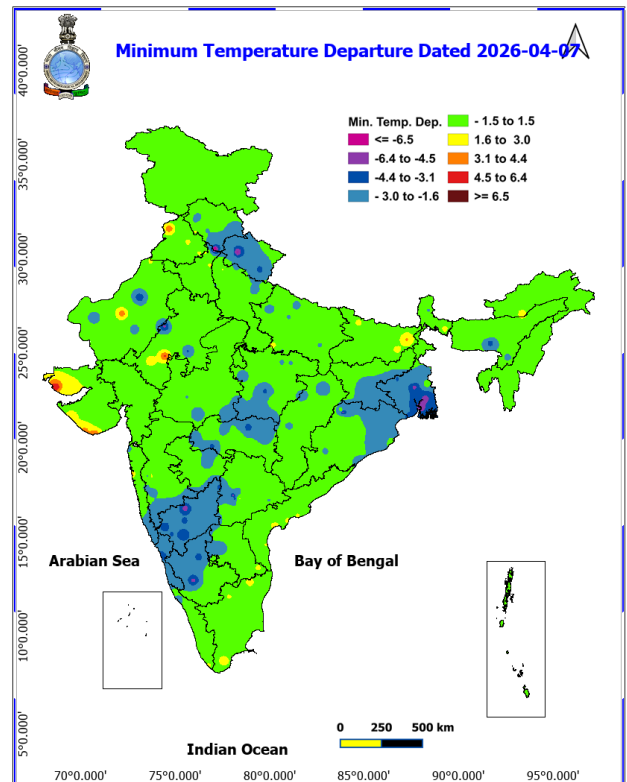
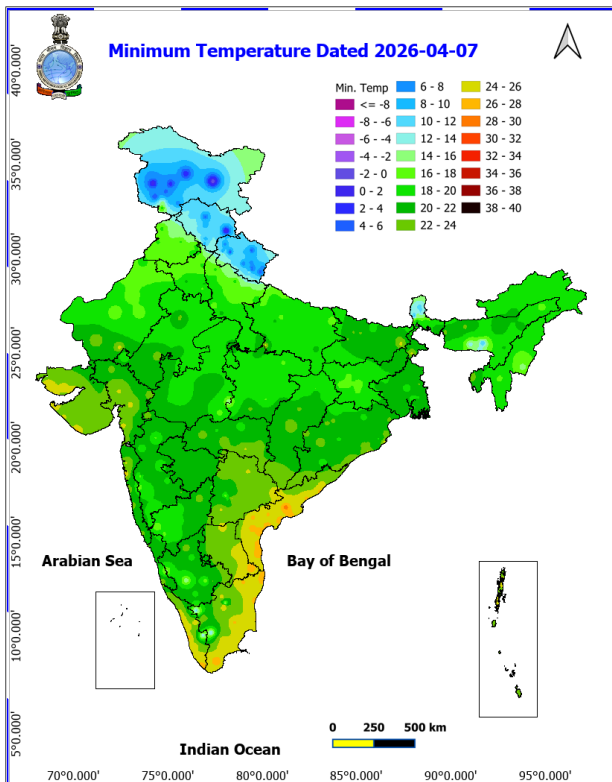
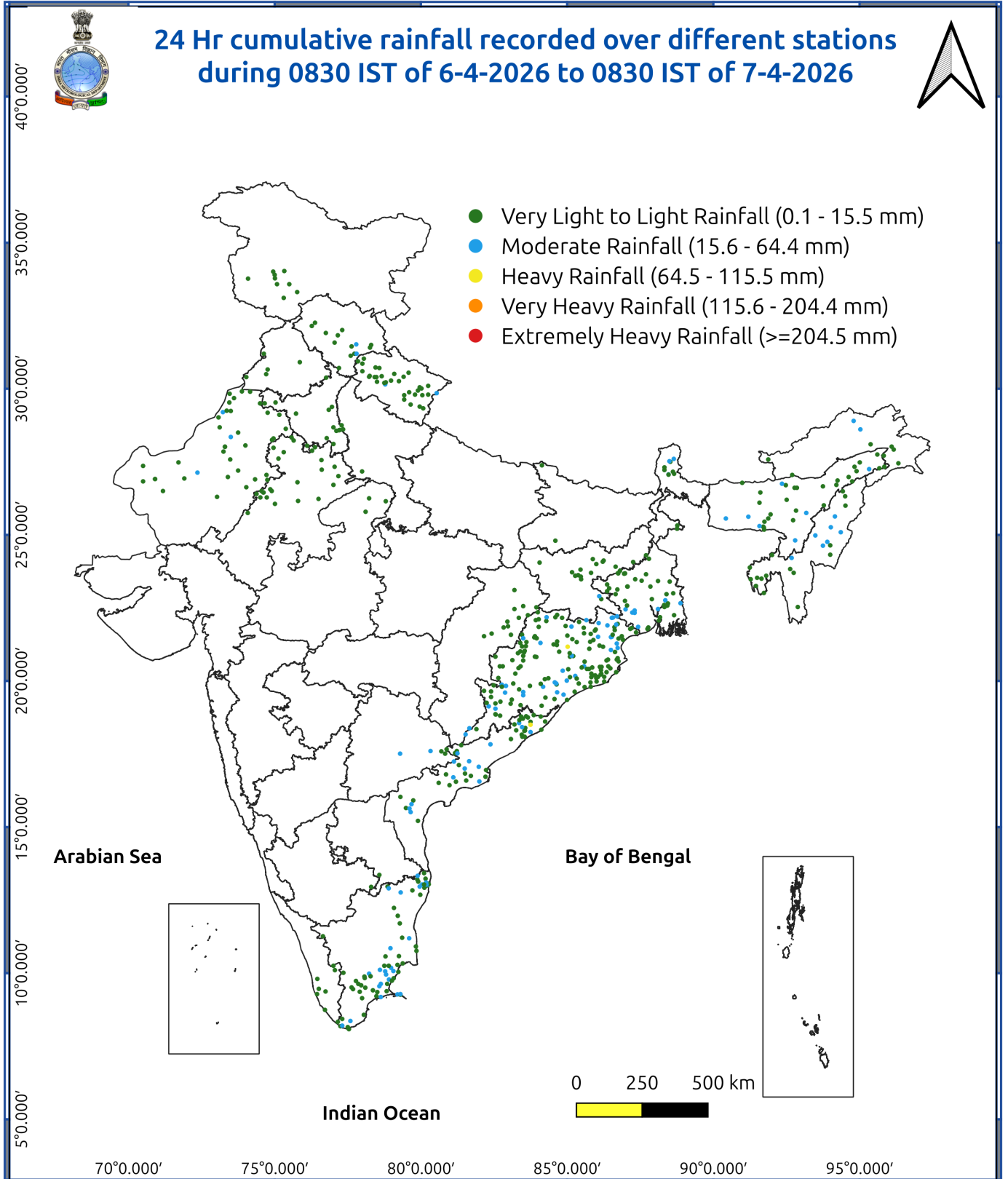


Fig. 3: Minimum Temperatures Dated 2026-04-07

Fig. 4: Departure of Minimum Temp. Dated 2026-04-07





Impact and Actions

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

- Isolated heavy rainfall likely over Arunachal Pradesh on 09th & 12th April; Himachal Pradesh, Gangetic West Bengal on 08th April; Assam & Meghalaya on 08th & 09th April; Odisha on 08th 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.

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

- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Gangetic West Bengal on 08th April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar, Sub-Himalayan West Bengal & Sikkim on 08th; Jharkhand on 08th April.
- **Isolated hailstorm activity** likely over Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh, Himachal Pradesh, Uttarakhand, Jharkhand, East Uttar Pradesh, Bihar, Madhya Pradesh & Chhattisgarh on 08th April.

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.

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- 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 **West Bengal, Odisha, Jharkhand, Bihar, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Rajasthan, Madhya Pradesh and Chhattisgarh.**
- Undertake harvesting of matured crops, fruits and vegetables immediately and shift them to safer places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Jammu & Kashmir**, keep the harvested mustard, lentil and gram in safe places. Drain out excess rainwater from the standing crops. Provide staking to the pea vines for better crop stand against strong winds.
- In **Himachal Pradesh**, make necessary arrangements to drain excess rainwater from the fields of wheat, mustard, garlic, fruit orchards and vegetables. Keep the harvested produce to safe places and provide staking/support to plants.
- 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.
- In **Assam**, make necessary arrangements to remove excess rainwater from the crop fields.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and cover the young vegetable seedlings.
- In **West Bengal**, harvest matured crops and vegetables immediately and store them in a dry, safe place to prevent damage. Make necessary arrangements to remove excess rainwater from the crop and vegetable fields.
- In **Odisha**, keep the harvested produce of green gram, black gram, mustard, groundnut and black pepper in the safe places. Drain out excess rainwater from the standing crops, vegetables and fruit orchards.

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 minimize 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 & 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

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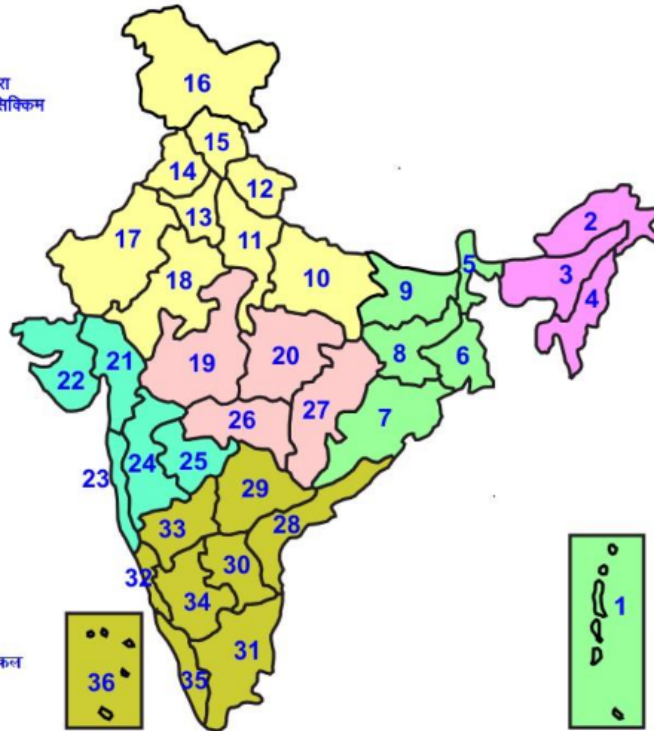


Andaman & Nicobar Islands.

- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (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 Fog
- Hot & Humid

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LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°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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