

2026-04-22

Time of Issue: 07:41:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Northwest India:

- **Isolated to Scattered** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 24th & 25th; Himachal Pradesh on 25th & 26th April.

Northeast India:

- **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Arunachal Pradesh on 22nd; Assam & Meghalaya during 22nd -27th April; **with lightning** over Arunachal Pradesh on 25th, **Nagaland, Manipur, Mizoram & Tripura on 22nd & 23rd** April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Assam & Meghalaya on 22nd & 25th April.
- **Isolated heavy rainfall** likely over Arunachal Pradesh during 22nd & 25th; Assam & Meghalaya during 22nd & 24th with isolated **very heavy rainfall** likely over Arunachal Pradesh on 26th & 27th; Assam & Meghalaya during 25th -27th April.

East India:

- **Isolated to scattered light** to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 22nd -27th; Gangetic West Bengal during 24th -26th; Jharkhand on 24th & 25th; Odisha during 22nd-25th April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar on 24th & 25th; Gangetic West Bengal on 26th April.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 26th April.

Central India:

- **Isolated** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over East Madhya Pradesh, Chhattisgarh on 21st and Vidarbha on 22nd April.

South Peninsular India:

- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Kerala & Mahe during 22nd -23rd; Interior Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, during 22nd -25th; Coastal Karnataka on 22nd **with lightning** over Rayalaseema during 22nd -23rd; Coastal Karnataka during 23rd -25th April.

West India:

- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Konkan & Goa, Madhya Maharashtra, Marathwada during 22nd -25th April.
- Isolated **Hailstorm activity** likely over Madhya Maharashtra on 23rd & 24th April.

Forecast of maximum/day temperatures:

- Gradual rise in maximum temperatures by 3-4°C likely over Northwest India till 25th April and no significant

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change on 26th & 27th April.

- No significant change in maximum temperatures likely over central India till 22nd and Gradual rise in maximum temperatures by 2-4°C thereafter during 23th – 27th April.
- No significant change in maximum temperatures by 2-3°C likely over Maharashtra on 22nd April and Gradual rise in maximum temperatures by 2-3°C during 23rd -25th April and no significant change on 26th & 27th April
- No significant change in maximum temperatures likely over Gujrat State during 22nd -23rd and Gradual rise in maximum temperatures by 2-3°C thereafter during 24th – 27th April.
- No significant change in maximum temperatures likely over rest parts of the country during 22nd to 27th April.

Heat wave, Hot & Humid weather and Warm night warning:

- **Heat wave conditions** very likely in isolated pockets of Haryana Chandigarh & Delhi, Punjab during 22nd -24th, East Uttar Pradesh during 22nd -25th, Madhya Pradesh, Chhattisgarh, West Uttar Pradesh during 22nd -25th, Odisha, Rajasthan during 23rd -25th, Gangetic West Bengal, Bihar on 22nd, Vidarbha during 24th – 26th April.
- **Hot & humid weatherconditions** very likely to prevail in isolated pockets over Gangetic West Bengal during 22nd -26th; Odisha, Tamil Nadu, Coastal Andhra Pradesh & Yanam during 22nd-25th, Konkan & Goa on 23rd & 24th, Coastal areas of Gujarat state on 24th & 25th Kerala & Mahe during 22nd-24th, April.
- **Warm night conditions** very likely to prevail in isolated pockets over Haryana, Chandigarh, Delhi during 22nd-24th, Chhattisgarh on 22nd, Odisha during 22nd – 25th and Odisha during April.

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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 Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Coastal Karnataka and North Interior Karnataka; **at many places** over Jharkhand, Chhattisgarh, Kerala & Mahe, Telangana and Rayalaseema; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Arunachal Pradesh:** Itanagar (dist Papum Pare) 9, Pasighat (dist East Siang) 3; **Assam & Meghalaya:** Cherrapunji (dist East Khasi Hills) 8, Dibrugarh (dist Dibrugarh) 4, North Lakhimpur (dist Lakhimpur), Silchar (dist Cachar), Dhubri (dist Dhubri) 2 Each; **Chhattisgarh:** Jagdalpur (dist Bastar) 1; **Kerala & Mahe:** Thiruvananthapuram-city (dist Thiruvananthapuram) 1.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Heavy rain** at a few places over Arunachal Pradesh, at isolated places over Assam & Meghalaya

❖ **Minimum Temperature Departures (as on 21-04-2026):** were appreciably above normal (3.1°C to 5.0°C) over East Uttar Pradesh, Southeast Rajasthan, Bihar, Gangetic West Bengal, Manipur, Nagaland, Chhattisgarh, Odisha, above normal(1.6 to 3.0°C) Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Chandigarh, Himachal Pradesh, Uttarakhand, West Rajasthan, Assam & Meghalaya, Madhya Pradesh, Jharkhand, Maharashtra, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Gujarat Region, South Interior Karnataka, below normal(-3.0°C to -1.6°C) on Saurashtra & Kutch and near normal over rest parts of the country. The lowest **minimum temperature of 17.5 °C** was observed at **Najibabad (West Uttar Pradesh)** over the Plains of India.

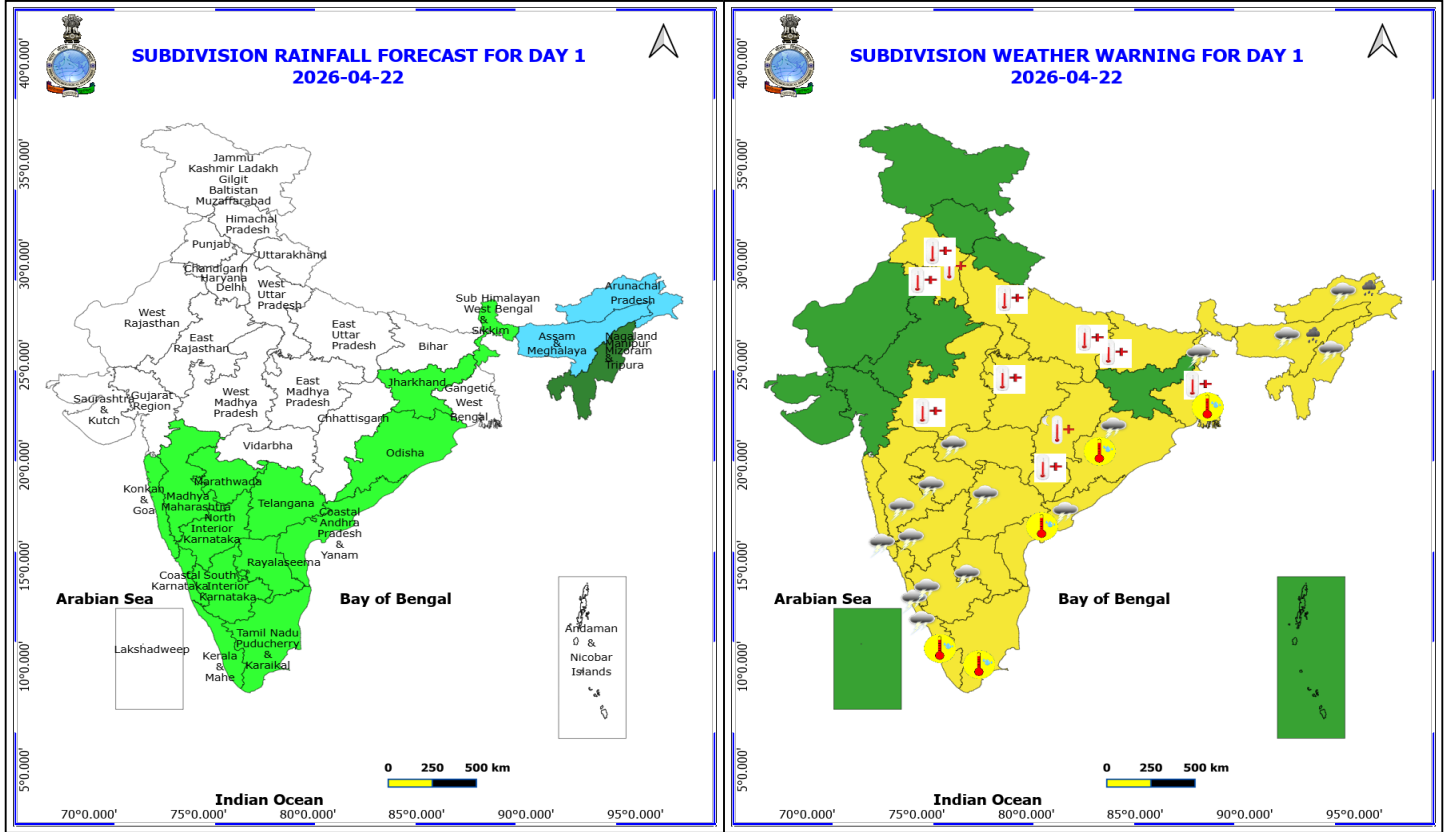
❖ **Maximum Temperature Departures (as on 21-04-2026):** **markedly above normal(> 5.1°C)** at many places over Himachal Pradesh; at few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Gangetic West Bengal, Bihar and Konkan & Goa. **appreciably above normal(3.1°C to 5.0°C)** at many places over Sub Himalayan West Bengal & Sikkim; at few places over Jharkhand, East Uttar Pradesh and East Madhya Pradesh; at isolated places over Assam & Meghalaya, West Uttar Pradesh, West Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **above normal(1.6°C to 3.0°C)** at many places over Haryana-Chandigarh-Delhi, Punjab, West Rajasthan, Rayalaseema and South Interior Karnataka; at few places over Uttarakhand, Saurashtra & Kutch, Chhattisgarh and Coastal Karnataka; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Gujarat Region and Madhya Maharashtra. **near normal(-1.5°C to 1.5°C)** at most places over Andaman & Nicobar Islands, Arunachal Pradesh, East Rajasthan, Marathwada, Telangana, North Interior Karnataka and Lakshadweep. **The highest maximum temperature** of 44.2°C was reported at **BANDA (UTTAR PRADESH)**.

Meteorological Analysis (Based on 0530 hours IST)

- The **upper air cyclonic circulation** over Sub-Himalayan West Bengal & neighbourhood upto 1.5 km above mean sea level persists.
- An **upper air cyclonic circulation** lies over Gangetic West Bengal & neighbourhood at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over North Chhattisgarh & neighbourhood at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over Telangana & neighbourhood at 1.5 km above mean sea level persists.
- The **trough/ wind discontinuity** from the **upper air cyclonic circulation** over North Chhattisgarh to Comorin area across Telangana, Interior Karnataka, Tamil Nadu at 0.9 km above mean sea level persists.
- The **trough** from Northwest Bihar to Manipur across the **upper air cyclonic circulation** over Sub-Himalayan West Bengal, Bangladesh and Assam at 0.9 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 90-110 knots at 12.6 km above mean sea level prevails over central & northeast India.
- The **Anti-cyclonic circulation** over interior Maharashtra & adjoining Telangana and North Interior Karnataka between 3.1 & 5.8 km above mean sea level persists.
- A **fresh Western Disturbance** is likely to affect Western Himalayan region from 23rd April.

Weather Outlook for subsequent 3 days

- **Widespread** rainfall activity likely over Northeast India, Western Himalayan Region and Isolated rainfall activity over Gujarat and Western parts of Peninsular India.



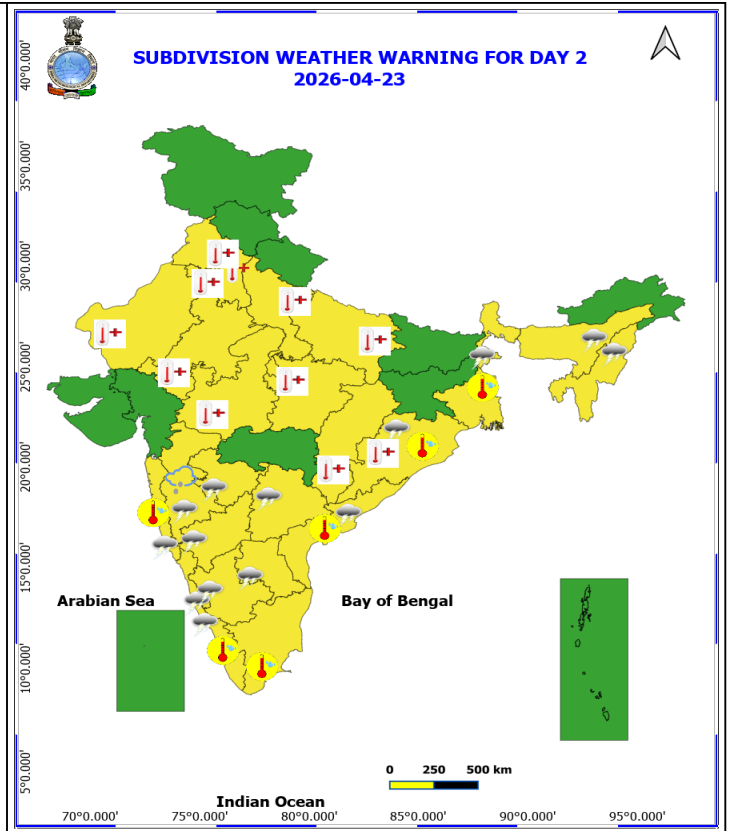
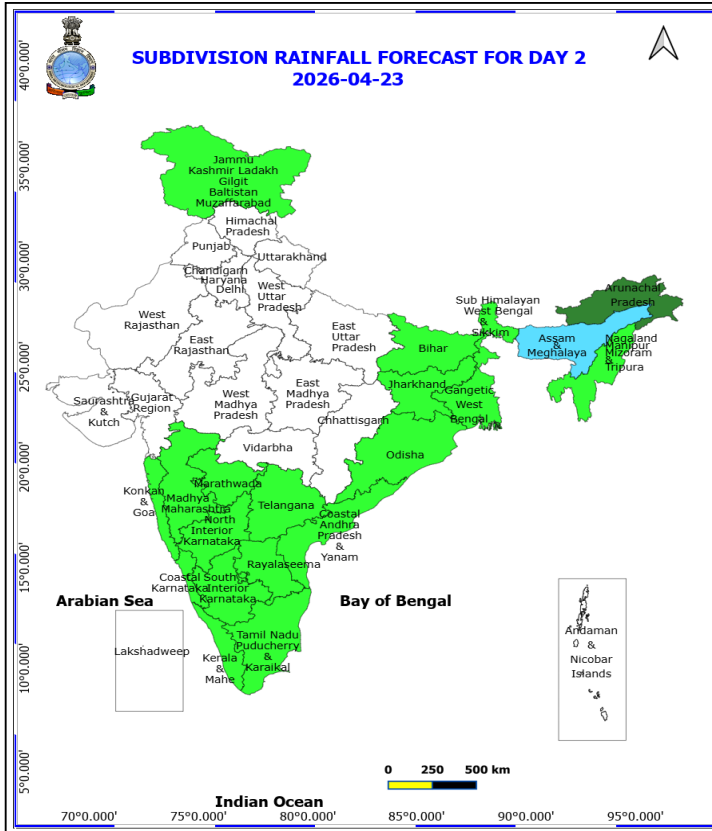
22 April (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Kerala & Mahe, Telangana and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Coastal Andhra Pradesh, Karnataka, Konkan & Goa, Madhya Maharashtra, Marathwada, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Nagaland, Manipur, Mizoram and Tripura and Rayalaseema.
- ❖ **Heat Wave conditions** very likely at isolated places over Bihar, Chhattisgarh, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Madhya Pradesh, Punjab and Uttar Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Kerala & Mahe, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ **Warm Night conditions** very likely at isolated places over Chhattisgarh and Haryana, Chandigarh & Delhi.

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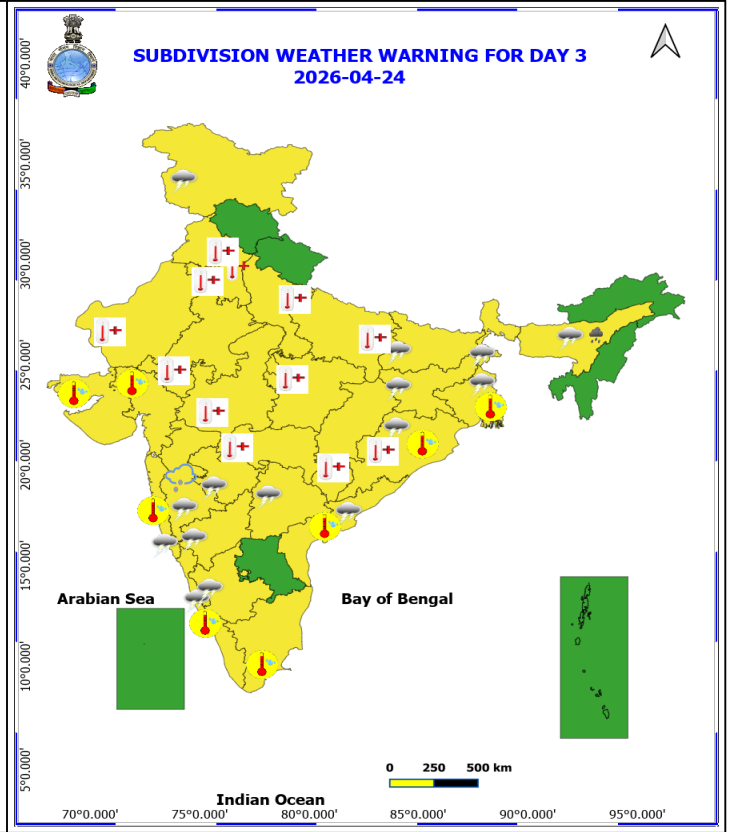
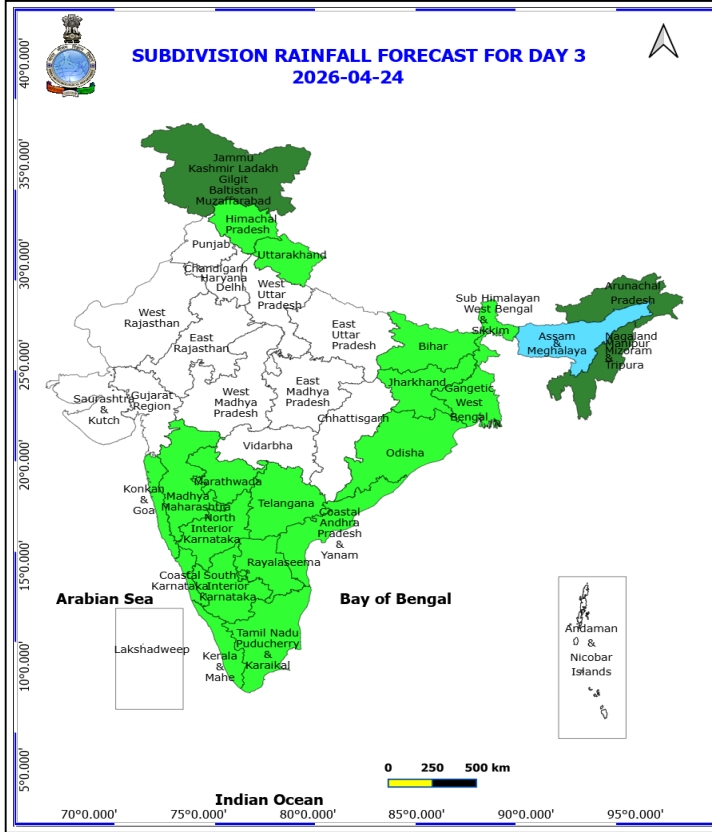
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23 April (Day 2)

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Kerala & Mahe, Konkan & Goa, Madhya Maharashtra and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh, Interior Karnataka, Marathwada, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Karnataka, Nagaland, Manipur, Mizoram and Tripura and Rayalaseema.
- ❖ **Heat Wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Punjab, Rajasthan and Uttar Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Kerala & Mahe, Konkan & Goa, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ **Warm Night conditions** very likely at isolated places over Haryana, Chandigarh & Delhi.

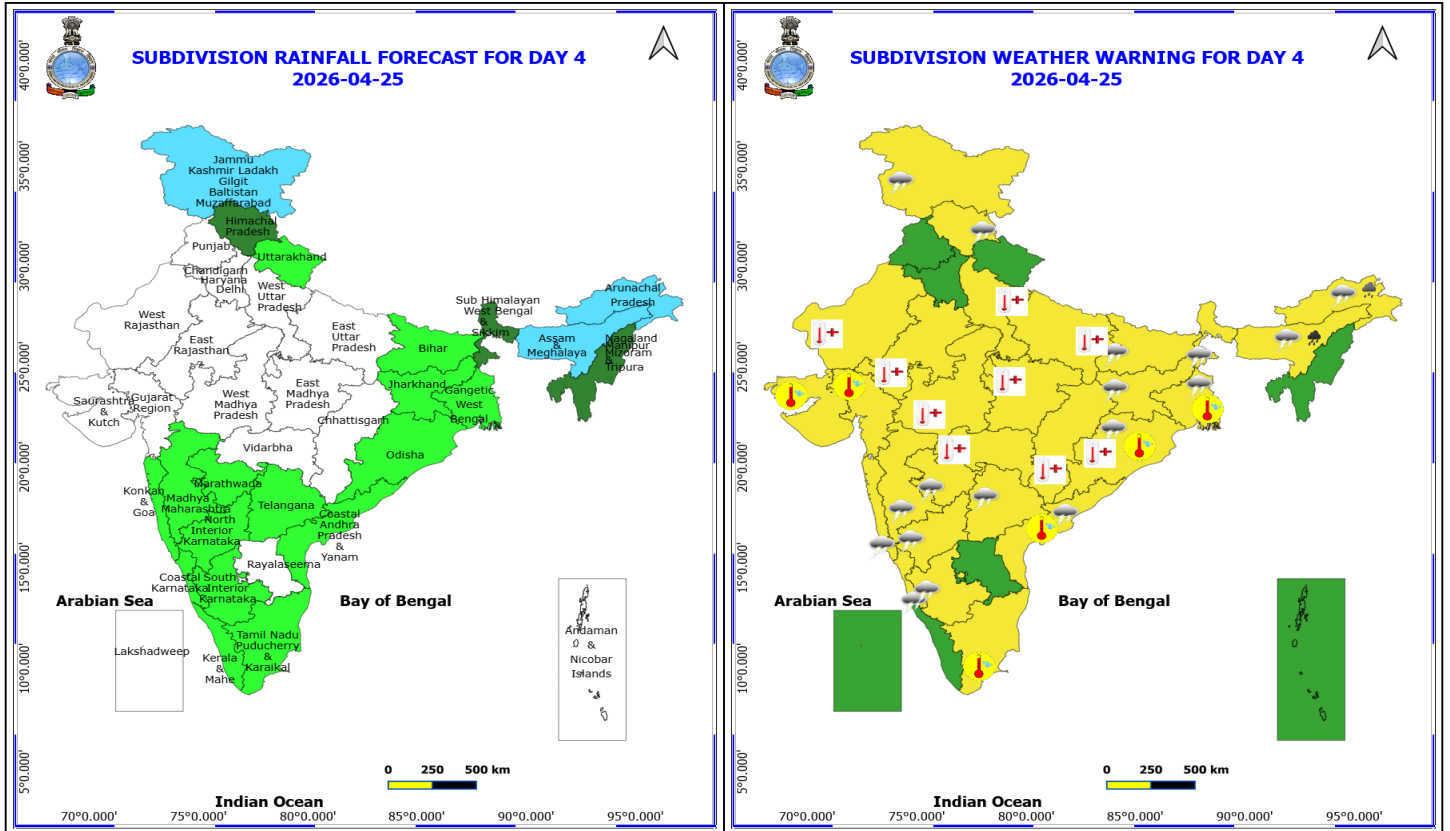
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24 April (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Madhya Maharashtra.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Madhya Maharashtra, Sub Himalayan West Bengal & Sikkim and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh, Gangetic West Bengal, Interior Karnataka, Jharkhand, Marathwada and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Karnataka.
- ❖ **Heat Wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Punjab, Rajasthan, Uttar Pradesh and Vidarbha.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Gujarat State, Kerala & Mahe, Konkan & Goa, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ **Warm Night conditions** very likely at isolated places over Haryana, Chandigarh & Delhi.

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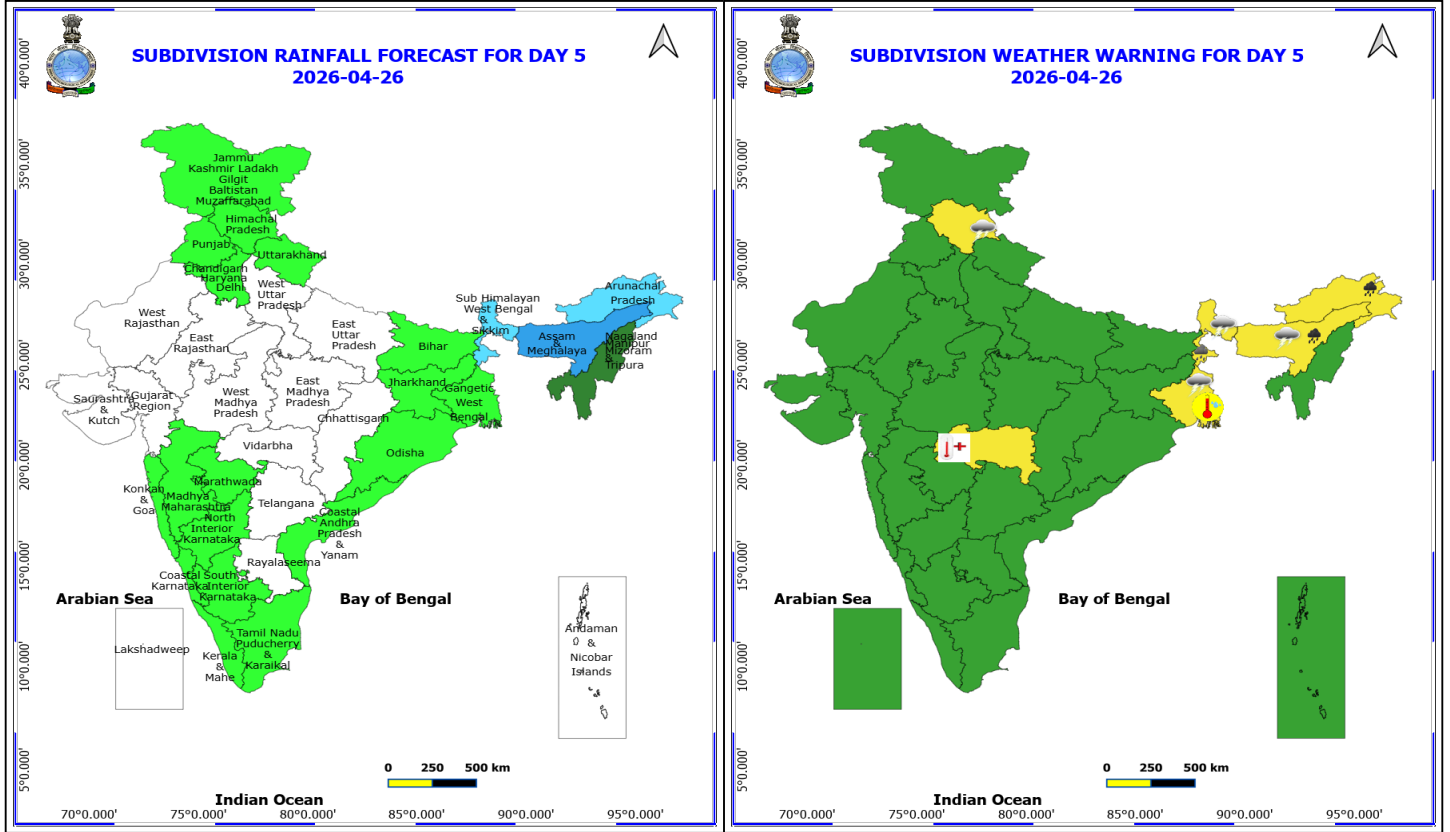
25 April (Day 4)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Assam & Meghalaya.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Assam & Meghalaya and Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Telangana and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Coastal Andhra Pradesh, Himachal Pradesh, Interior Karnataka, Jharkhand, Konkan & Goa, Madhya Maharashtra, Marathwada and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh and Coastal Karnataka.
- ❖ **Heat Wave conditions** likely at isolated places over Chhattisgarh, Madhya Pradesh, Odisha, Rajasthan, Uttar Pradesh and Vidarbha.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Gujarat State, Odisha and Tamil Nadu Puducherry & Karaikal.

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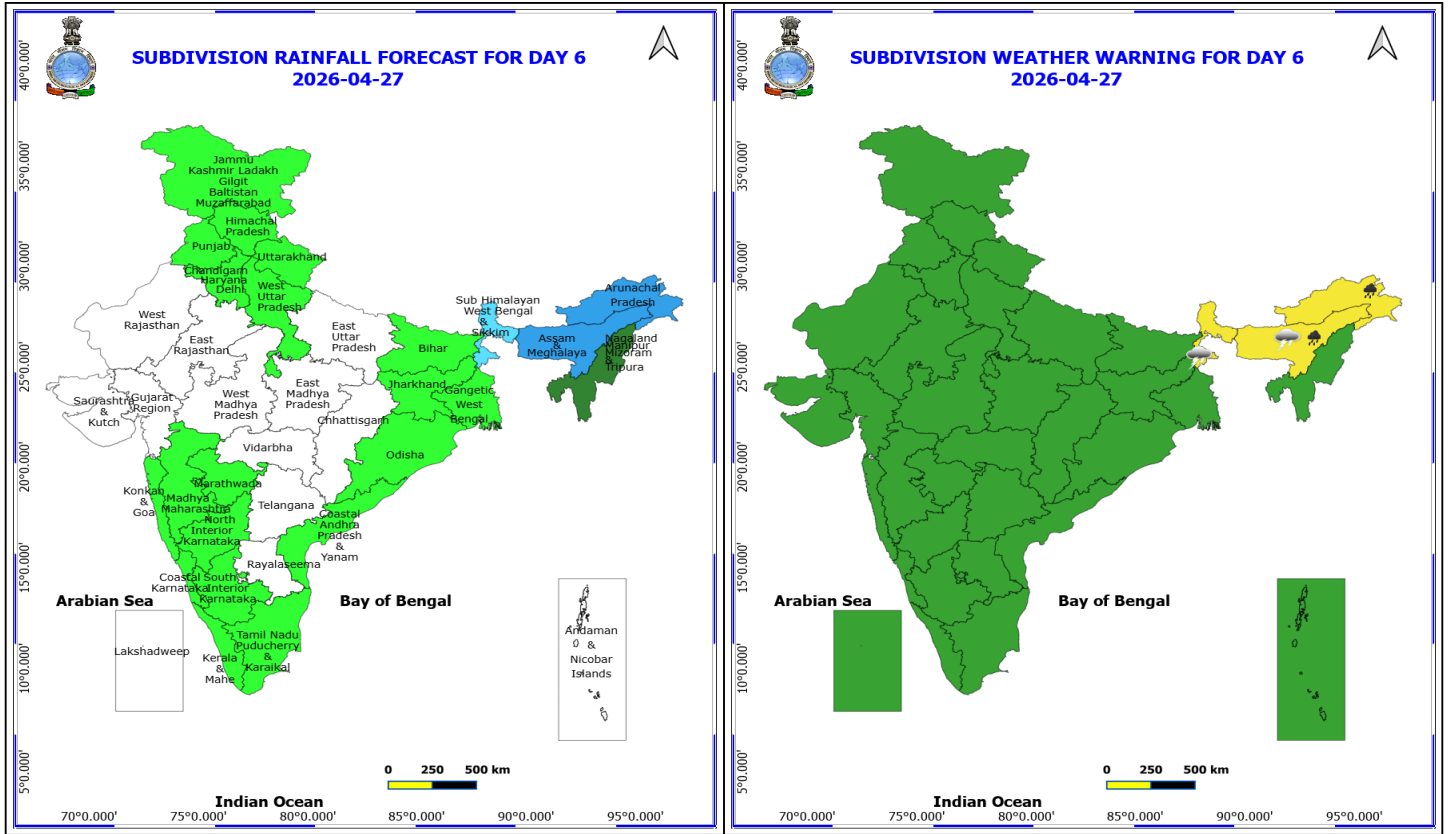
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26 April (Day 5)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Heavy Rainfall** likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gangetic West Bengal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh.
- ❖ **Heat Wave conditions** likely at isolated places over Vidarbha.
- ❖ **Hot and Humid weather** likely at isolated places over Gangetic West Bengal.

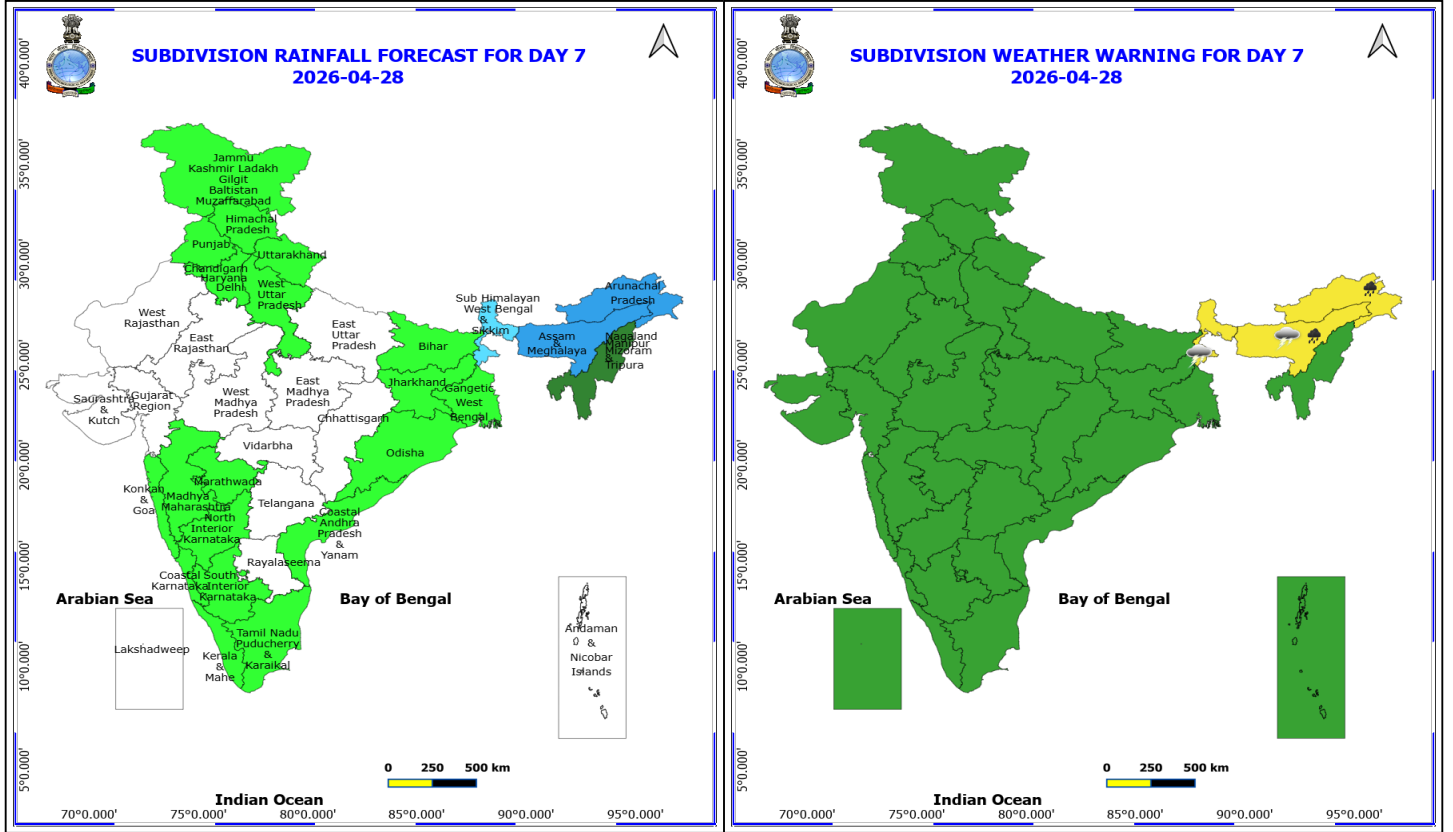
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27 April (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **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 Sub Himalayan West Bengal & Sikkim.

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28 April (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **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 Sub Himalayan West Bengal & Sikkim.

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	22- Apr	23- Apr	24- Apr	25- Apr	26- Apr	27- Apr	28- 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	FWS	SCT	SCT	FWS	FWS	WS	WS
3	ASSAM & MEHGHALAYA	FWS	FWS	FWS	FWS	WS	WS	WS
4	N. M. M. & T.	SCT	ISOL	SCT	SCT	SCT	SCT	SCT
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	SCT	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
9	BIHAR	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
12	UTTARAKHAND	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	ISOL	SCT	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	ISOL	SCT	FWS	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	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 2026-04-21

Fig. 2: Departure of Maximum Temp. Dated 2026-04-21

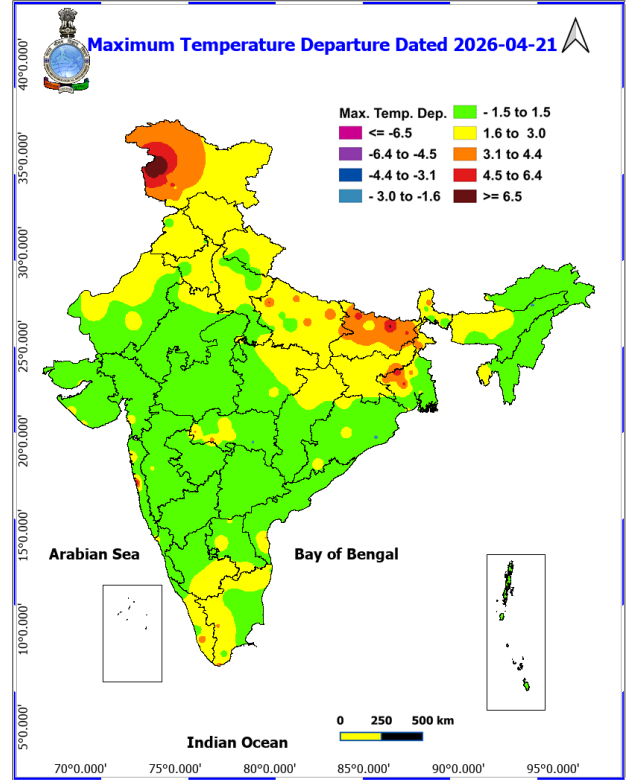
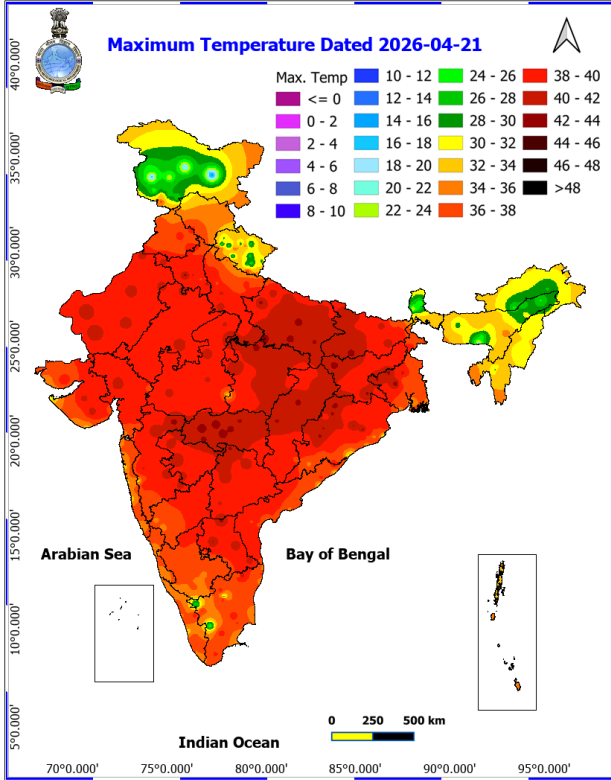
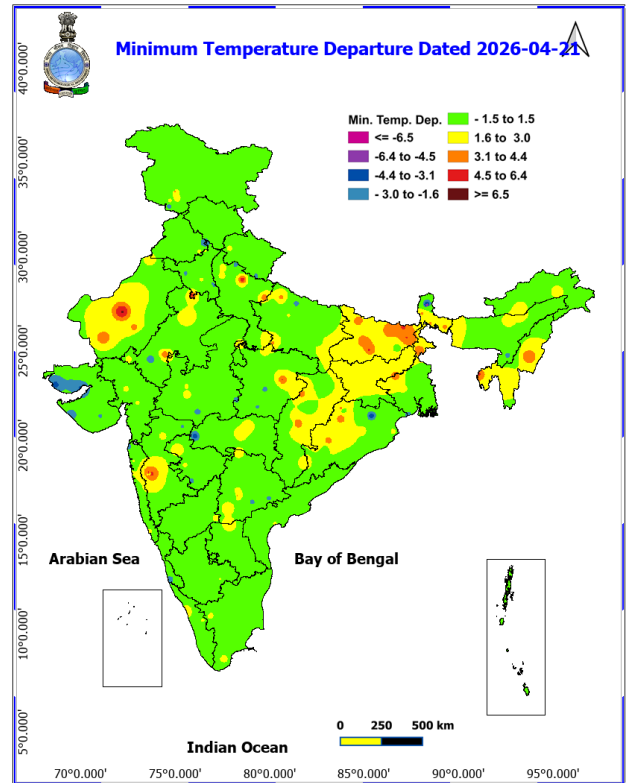
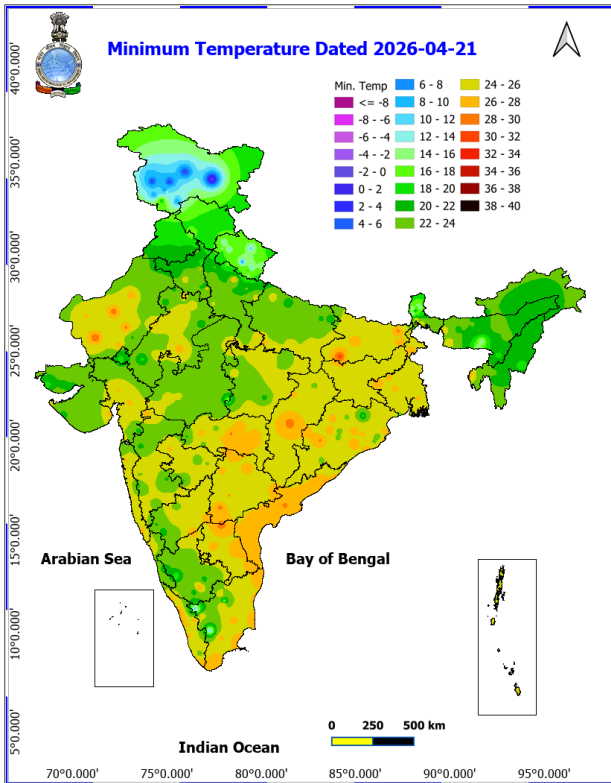


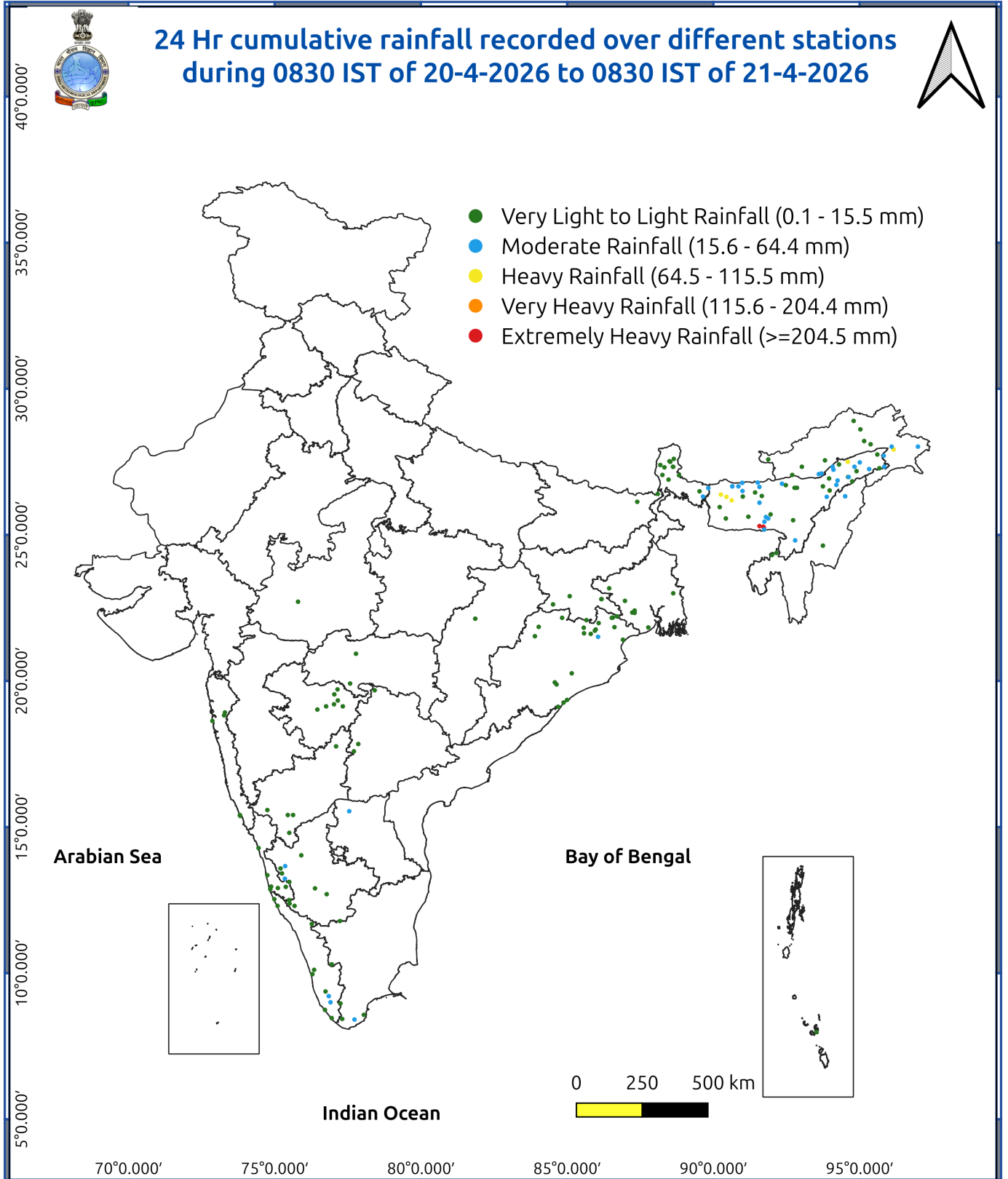
Fig. 3: Minimum Temperatures Dated 2026-04-21

Fig. 4: Departure of Minimum Temp. Dated 2026-04-21



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Impact and Actions

Impact & suggested due to heavy rainfall

- **Isolated heavy rainfall** likely over Arunachal Pradesh during 22nd & 25th; Assam & Meghalaya during 22nd & 24th, Sub-Himalayan West Bengal & Sikkim on 26th with isolated **very heavy rainfall** likely over Arunachal Pradesh on 26th & 27th; Assam & Meghalaya during 25th -27th April.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- 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/landslips/mudslips/landsinks/mudsinks.
- 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.

- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Assam & Meghalaya on 22nd & 25th, Bihar on 24th & 25th; Gangetic West Bengal on 26th April.
- Isolated **Hailstorm activity** likely over Madhya Maharashtra on 23rd & 24th 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.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

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- **Impact expected and action suggested due to Heat wave conditions** very likely in isolated pockets of Haryana Chandigarh & Delhi, Punjab during 22nd -24th, East Uttar Pradesh during 22nd -25th, Madhya Pradesh, Chhattisgarh, West Uttar Pradesh during 22nd -25th, Odisha, Rajasthan during 23rd -25th, Gangetic West Bengal, Bihar on 22nd, Vidarbha during 24th – 26th April.

Alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Hailstorms

- In **Madhya Maharashtra and Telangana**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage.
- Ensure effective field drainage to prevent waterlogging. Undertake picking of matured fruits at the earliest. Keep the harvested produce in safe places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, harvest cabbage, pea, mustard, late-maturing paddy varieties & potatoes carefully and shift the harvested produce to safe places. Ensure proper drainage channels in the fields of rice, maize, other standing crops, vegetables, and orchards.
- In **Assam and Meghalaya**, make necessary arrangements to remove excess rainwater from the crop fields.

Agromet advisories for likely impact of High temperatures/ Heat Waves

- **Maharashtra** - In **Konkan**, irrigate green gram, vegetables, and newly planted arecanut and coconut. In **Vidarbha**, apply need-based light and frequent irrigation to summer green gram, groundnut, onion, sunflower, sesame, fodder crops, orchards, and vegetables during cooler hours. Use straw mulch in vegetable and orchard crops to reduce evaporation, and install shade nets for newly planted crops.
- **Gujarat** – Apply light and frequent irrigation to standing crops like cluster bean, cucumber, ridge gourd, bottle gourd, sponge gourd, and bitter gourd during morning or evening hours. Irrigate groundnut at the flowering and pegging stages.
- **Odisha**- Provide light irrigation to *Boro* paddy, summer maize, green gram, black gram, groundnut, and vegetable fields. Ensure adequate soil moisture is maintained in mango and cashew crops.
- **Madhya Pradesh** – Apply light irrigation to maize, *moong*, *urd*, groundnut and vegetable crops as per requirement.
- **Chhattisgarh** - Apply light irrigation after weeding and hoeing in *rabi* maize, banana, and papaya plantations. Complete harvesting of wheat and chickpea, and ensure safe storage.
- **Bihar**- Apply light and frequent irrigation to the standing crops. Carry out mulching with crop residue, straw or polythene to minimize the loss of soil moisture. Use temporary shade nets to protect the fruit plants from high

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temperatures.

- **Andhra Pradesh**- Provide light irrigation to maintain adequate moisture in standing crops such as paddy, *rabi* maize, sorghum, chickpea, groundnut, sesame, sugarcane, vegetables, and fruit orchards.
- **Punjab and Haryana** –Provide light irrigation to maintain adequate moisture in standing crops such as summer *moong*, cotton, vegetables, mango, guava & loquat.
- **Uttar Pradesh** - Provide light irrigation to maintain adequate moisture in standing crops such as hybrid maize, Zaid black gram, green gram, vegetables and sugarcane
- **Rajasthan** - Provide light irrigation to maintain adequate moisture in standing crops such as Zaid moong, American cotton & *Desi* cotton, okra, watermelon, muskmelon, tinda, cucumber & long melon
- In regions experiencing hot and humid conditions, including **Tamil Nadu, Kerala, and Gangetic West Bengal and Coastal Andhra Pradesh** apply light irrigation to summer crops and vegetables to maintain soil moisture.
- Apply mulching to conserve soil moisture in the standing crops.

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 securely and cover them to minimize the risk of displacement from 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 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 excess water, thereby preventing fish from escaping in the event of overflow.
- In regions with high temperatures and heat waves, provide clean, hygienic, and ample drinking water for animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects.

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 | | | |

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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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