

2026-04-19

Time of Issue: 13:52:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings :

Northwest India:

- **Fairly widespread** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and **Isolated to Scattered** over Himachal Pradesh on 19th and Uttarakhand on 19th & 20th April.
- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Punjab, Haryana, Chandigarh & Delhi on 19th; **with lightning** over West Rajasthan on 19th 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, Assam & Meghalaya during 19th -23rd; Nagaland, Manipur, Mizoram & Tripura during 19th -22nd April.
- **Isolated heavy rainfall** likely over Assam & Meghalaya during 19th-21st and Arunachal Pradesh on 19th with **isolated very heavy rainfall** likely over Arunachal Pradesh on 20th & 21st April.

East India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Bihar on 19th; Odisha, Sub-Himalayan West Bengal & Sikkim during 19th-23rd April; Jharkhand on 20th & 21st April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar on 23rd April.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 19th April.

Central India:

- **Isolated** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over West Madhya Pradesh on 19th and Chhattisgarh during 19th-22nd April.

South Peninsular India:

- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Coastal Andhra Pradesh & Yanam on 19th; Telangana and Karnataka during 19th-23rd; **with lightning** over Rayalaseema during 20th-22nd; Kerala & Mahe during 20th -23rd and Tamil Nadu, Puducherry & Karaikal on 22nd & 23rd April.
- **Isolated Hailstorm activity** likely over Telangana and North Interior Karnataka on 19th April.

West India:

- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Coastal Maharashtra during 19th-21st and Madhya Maharashtra, Marathwada during 19th -23rd April.
- **Isolated Hailstorm activity** likely over Madhya Maharashtra and Marathwada on 19th April.

Forecast of maximum/day temperatures:

- Gradual rise in maximum temperatures by 2-4°C likely over Northwest India except East Uttar Pradesh where no significant change in maximum temperatures during next 7 days.

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- Gradual rise in maximum temperatures by 2-3°C likely over East India during 19th-21st April and no significant change during 22nd -25th April.
- No significant change in maximum temperatures likely over rest parts of the country during 19th to 25th April.

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

- **Heat wave conditions** very likely in isolated pockets of West Madhya Pradesh, Chhattisgarh & Vidarbha on 19th & 20th; East Uttar Pradesh, East Rajasthan, East Madhya Pradesh during 19th-23rd; Jharkhand on 20th & 21st; West Uttar Pradesh during 20th-22nd; West Rajasthan during 20th-23rd and Punjab, Haryana, Chandigarh, Odisha during 21st-23rd April.
- **Hot & humid weather conditions** very likely to prevail in isolated pockets over Kerala & Mahe on 19th & 20th; Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Coastal Karnataka during 19th-23rd; Gangetic West Bengal during 20th-25th April.
- **Warm night conditions** very likely to prevail in isolated pockets over Haryana, Chandigarh during 21st-23rd; West Uttar Pradesh and Odisha during 19th-21st; Chhattisgarh on 19th April.

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 many places** over Assam & Meghalaya and Jammu-Kashmir/Ladakh-Gilgit-Baltistan-Muzaffarabad; **at a few places** over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; **at isolated places** over Gangetic West Bengal, Odisha, Bihar, Punjab, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and South Interior Karnataka; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Assam & Meghalaya:** Amraghat ARG (dist Cachar) 12; Dhubri IMD (dist Dhubri) 7; Tikrikilla (dist West Garo Hills) 6; **Nagaland, Manipur, Mizoram & Tripura:** Kailashahar AP (dist Unakoti) 10; Dharmanagar/panisagar (dist North Tripura) 8; **Sub Himalayan West Bengal & Sikkim:** Sevoke (dist Darjeeling) 6.

❖ **Very heavy rainfall (12-20 cm)** has been recorded at isolated places over Assam.

❖ **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Tripura.

❖ **Warm Night** prevailed at isolated pockets of Odisha.

❖ **Thunderstorm accompanied with Squally/Gusty winds with speed reaching 50-80 kmph** prevailed at isolated places over Bihar and Sub-Himalayan West Bengal; **with speed 30-50 kmph** prevailed at isolated places over Gujarat State, Madhya Pradesh, Madhya Maharashtra, Coastal Maharashtra, Jammu-Kashmir, Himachal Pradesh, Punjab, Assam & Meghalaya, Arunachal Pradesh, Manipur and Tripura.

❖ **Minimum/night Temperature** were appreciably above normal (3.1°C to 5.0°C) over Jammu-Kashmir, Himachal Pradesh, West Uttar Pradesh, Madhya Maharashtra, Gangetic West Bengal and Odisha; below normal (-3.0°C to -1.6°C) over West Madhya Pradesh, Saurashtra & Kutch and near normal over rest parts of the country. Today, the lowest **minimum temperature of 19.0 °C** was observed at **Ludhiana (Punjab)** over the plains of India

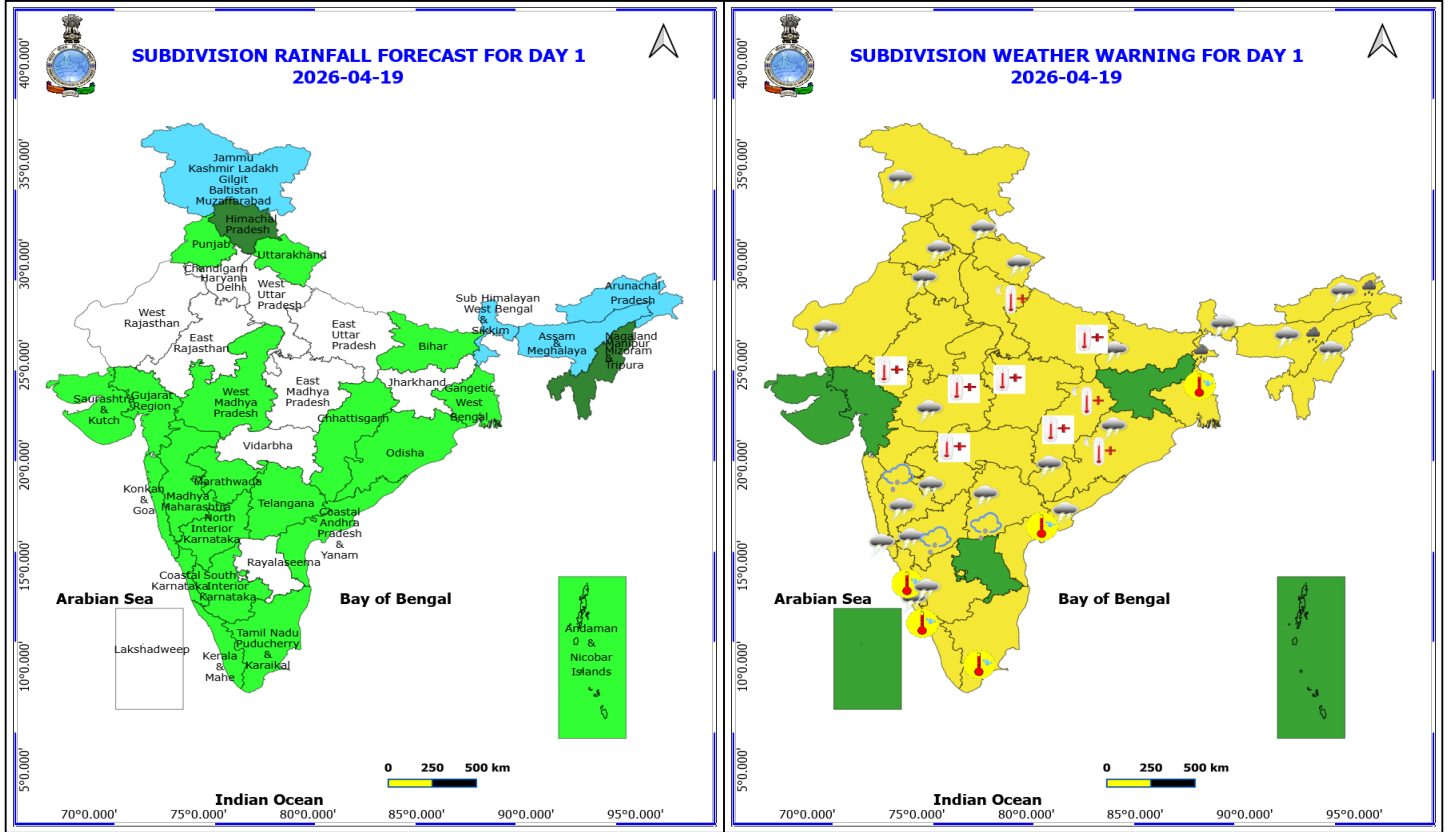
❖ **Maximum/day temperatures** were markedly above normal (> 5.1°C) over Arunachal Pradesh, Assam; appreciably above normal (3.1°C to 5.0°C) over Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Rayalaseema; below normal (-3.0°C to -1.6°C) over Jammu-Kashmir, West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest **maximum temperature of 45.0°C** was, jointly observed at **Rajnandgaon (Chhattisgarh) and Wardha (Vidarbha)**.

Meteorological Analysis (Based on 0830 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. 66°E to the north of Lat. 20°N.
- The **upper air cyclonic circulation** over Southwest Rajasthan & neighbourhood at 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over East Uttar Pradesh & neighbourhood at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over northeast Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- The **north-south trough** from above the **cyclonic circulation** over East Uttar Pradesh & neighbourhood to coastal Odisha across Jharkhand at 0.9 km above mean sea level.
- Another **north-south trough in easterlies** runs from Gulf of Mannar to North Interior Karnataka across Tamil Nadu and South Interior Karnataka at 0.9 km above mean sea level.
- The **east-west trough** from the above the **cyclonic circulation** over East Uttar Pradesh to Manipur across Bihar, northern parts of Gangetic West Bengal, **cyclonic circulation** over northeast Bangladesh at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over east Assam & neighbourhood at 1.5 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 80 knots at 12.6 km above mean sea level continues to prevail over north India.
- A **fresh Western Disturbance** is likely to affect Western Himalayan region from 23rd April.
- The **Anti-cyclonic circulation** over interior Maharashtra & adjoining Telangana and North Interior Karnataka between 3.1 & 5.8 km above mean sea level persists.
- The **Western Disturbance** as a cyclonic circulation over north Pakistan and neighbourhood at 3.1 km above mean sea level has become less marked.

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.



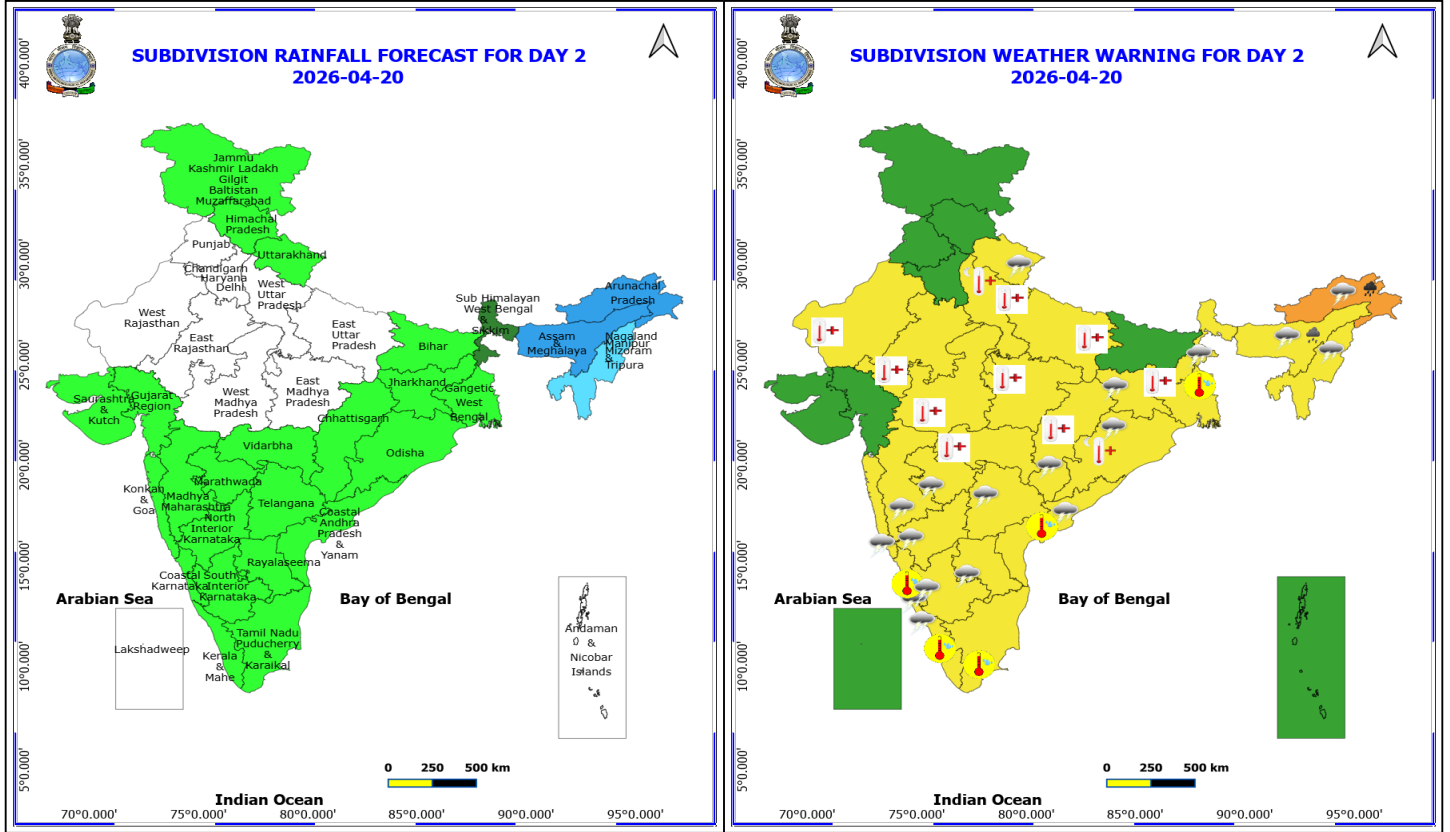
19 April (Day 1)

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

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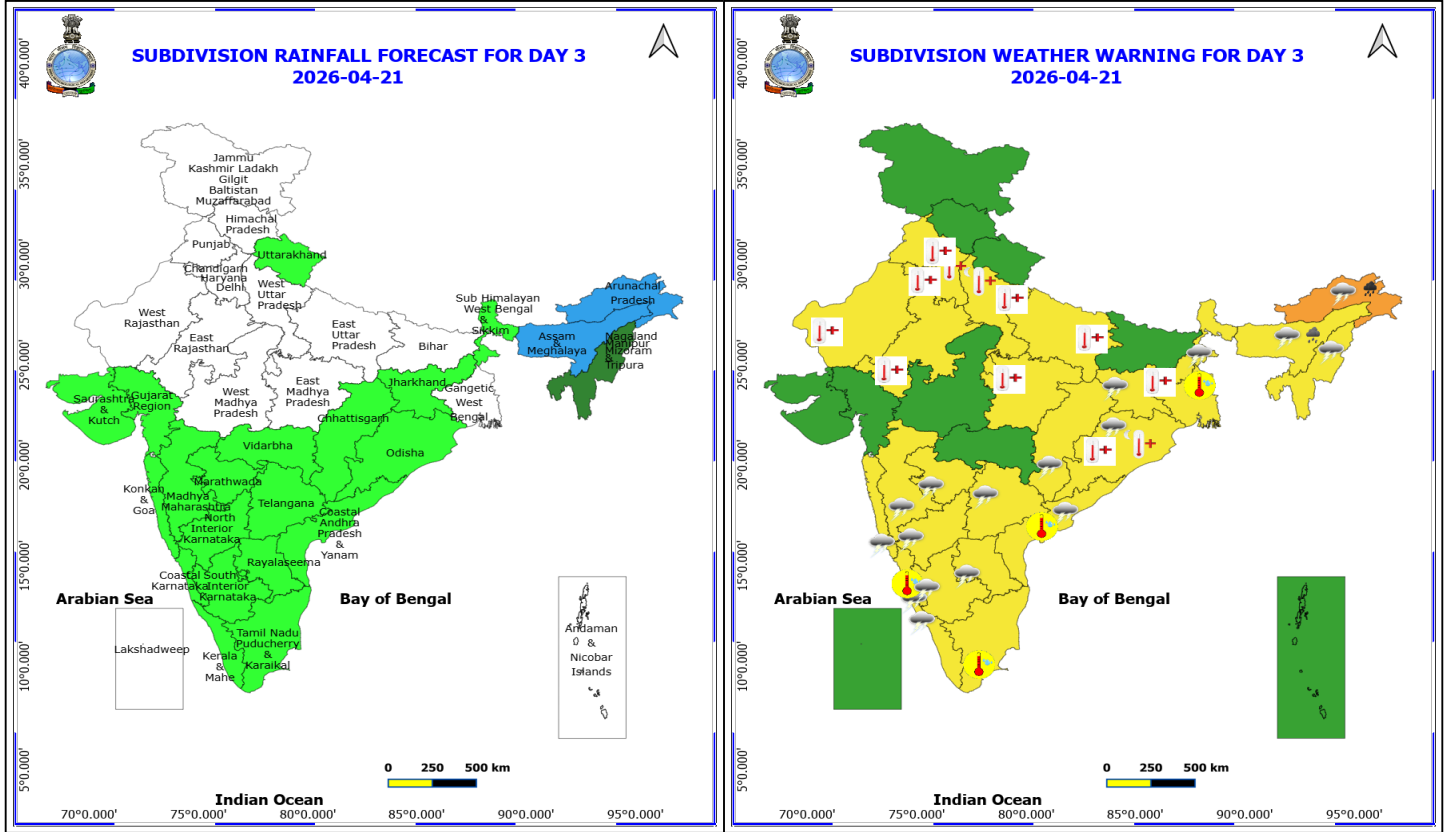
20 April (Day 2)

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

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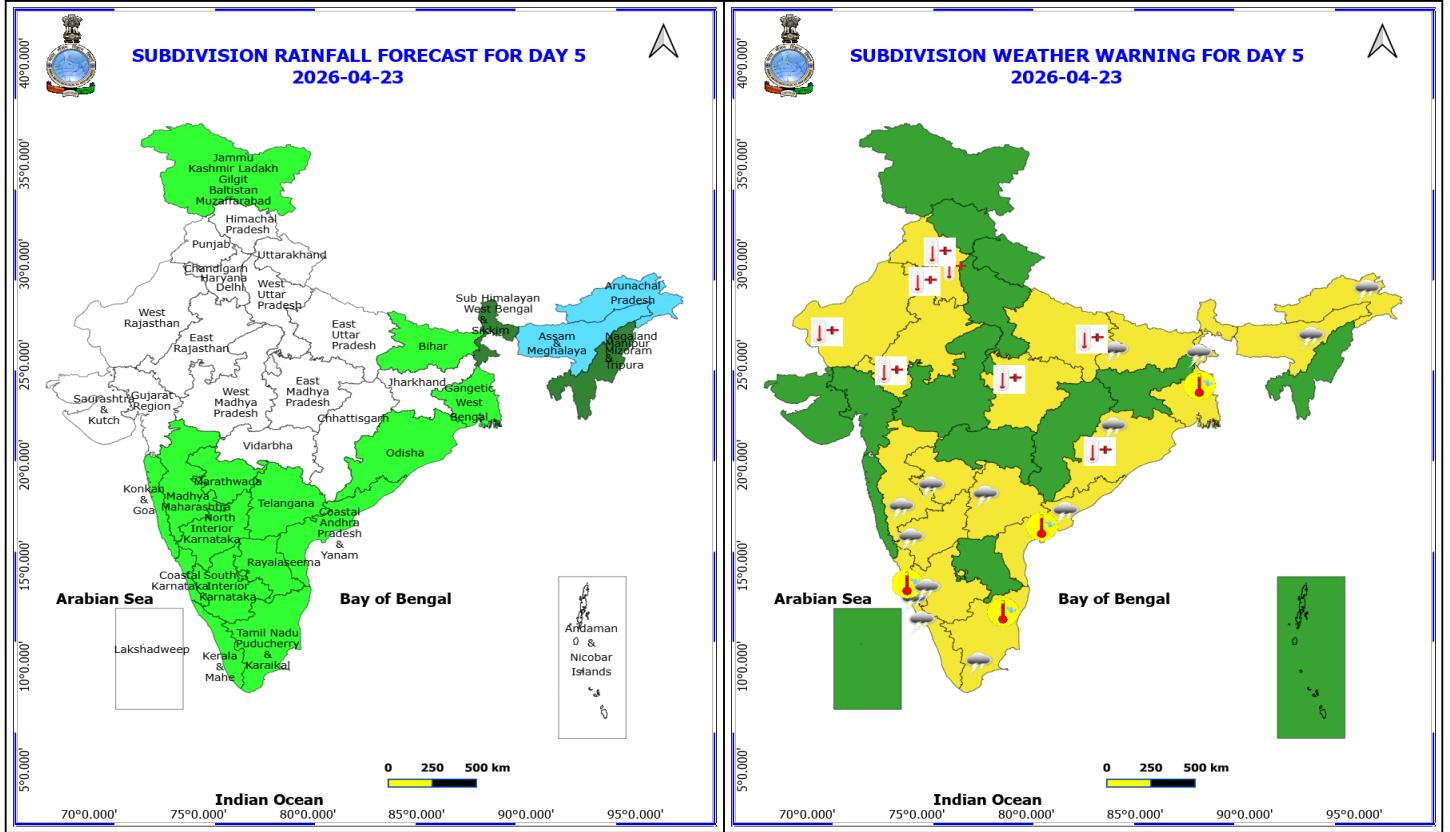
21 April (Day 3)

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

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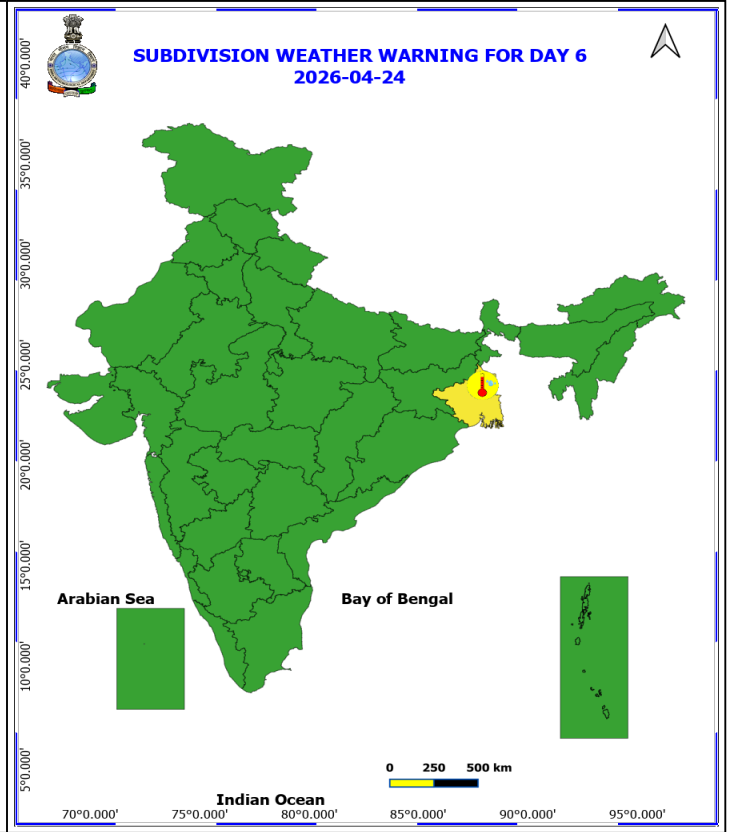
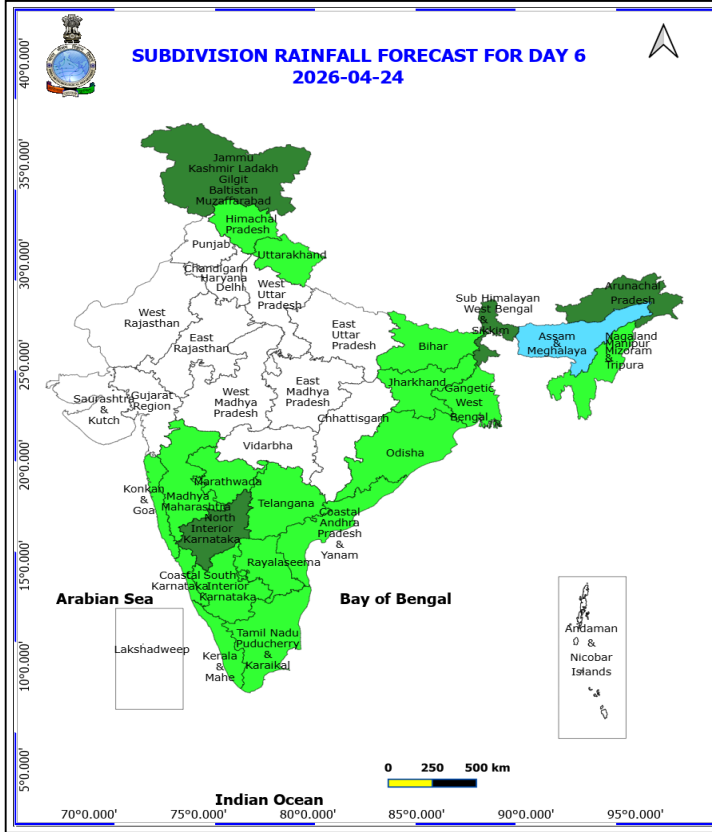
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23 April (Day 5)

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

No Fishermen Warning

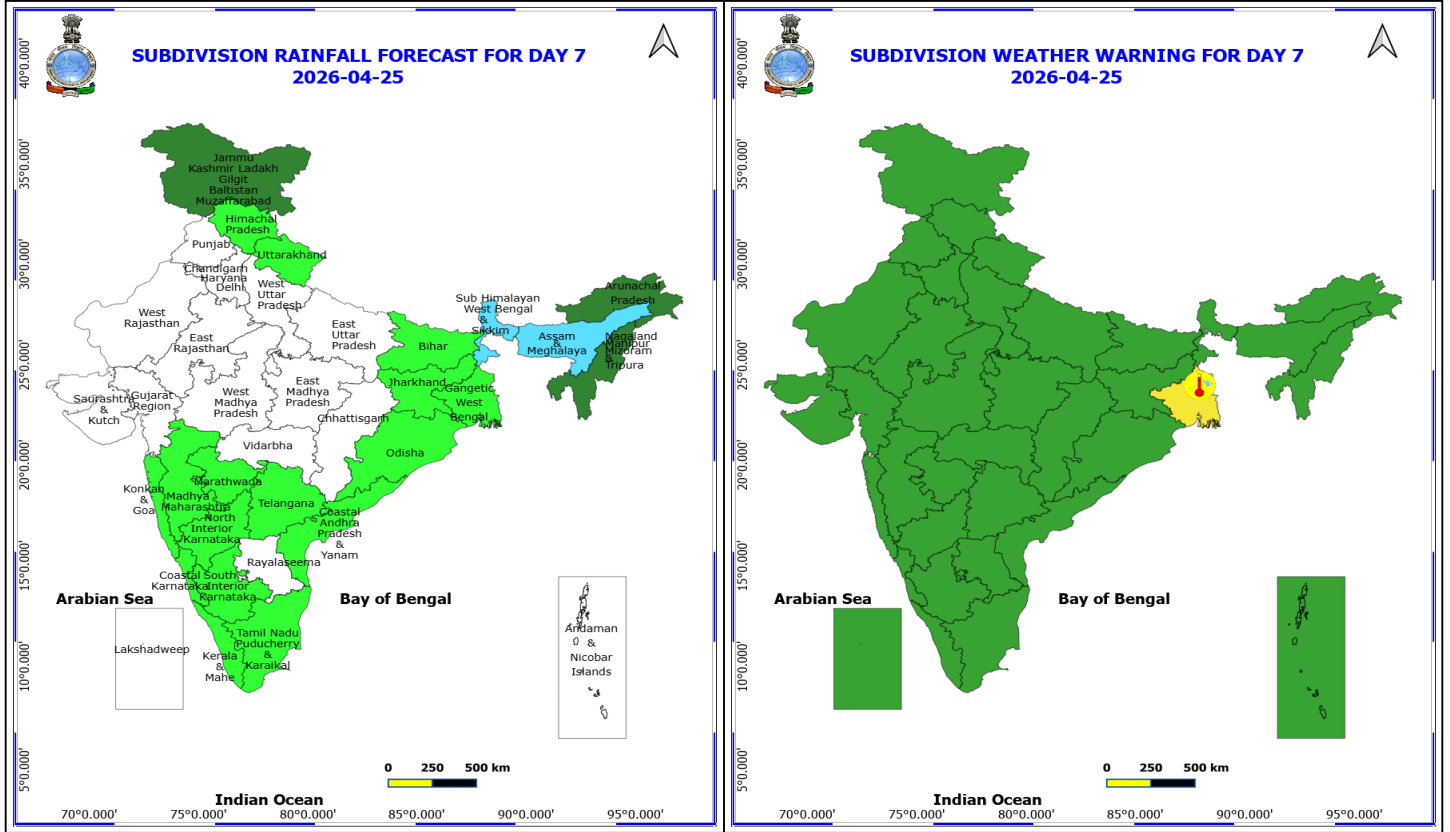


24 April (Day 6)

❖ Hot and Humid weather likely at isolated places over Gangetic West Bengal.

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25 April (Day 7)

❖ Hot and Humid weather likely at isolated places over Gangetic West Bengal.

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	19- Apr	20- Apr	21- Apr	22- Apr	23- Apr	24- Apr	25- Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	FWS	WS	WS	WS	FWS	SCT	SCT
3	ASSAM & MEHGHALAYA	FWS	WS	WS	FWS	FWS	FWS	FWS
4	N. M. M. & T.	SCT	FWS	SCT	SCT	SCT	ISOL	SCT
5	S.H. WEST BENGAL & SIKKIM	FWS	SCT	ISOL	ISOL	SCT	SCT	FWS
6	GANGETIC WEST BENGAL	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL
9	BIHAR	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
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	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	ISOL	DRY	DRY	DRY	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	FWS	ISOL	DRY	DRY	ISOL	SCT	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	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	ISOL	ISOL	ISOL	DRY	DRY	DRY
27	CHATTISGARH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	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	SCT	ISOL	SCT	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 2026-04-18

Fig. 2: Departure of Maximum Temp. Dated 2026-04-18

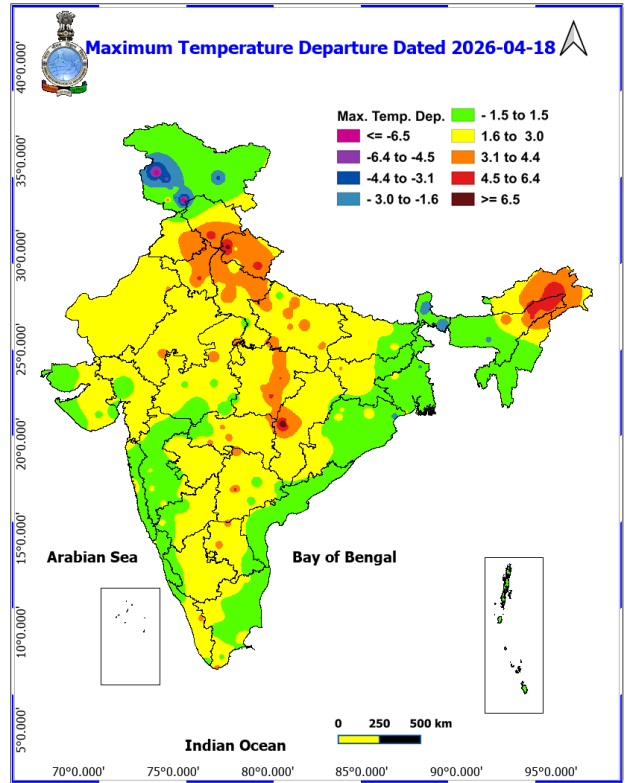
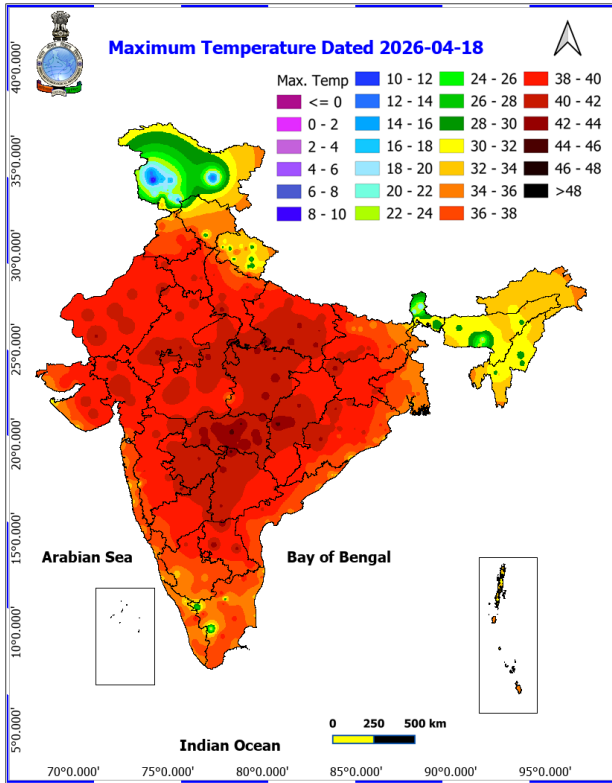
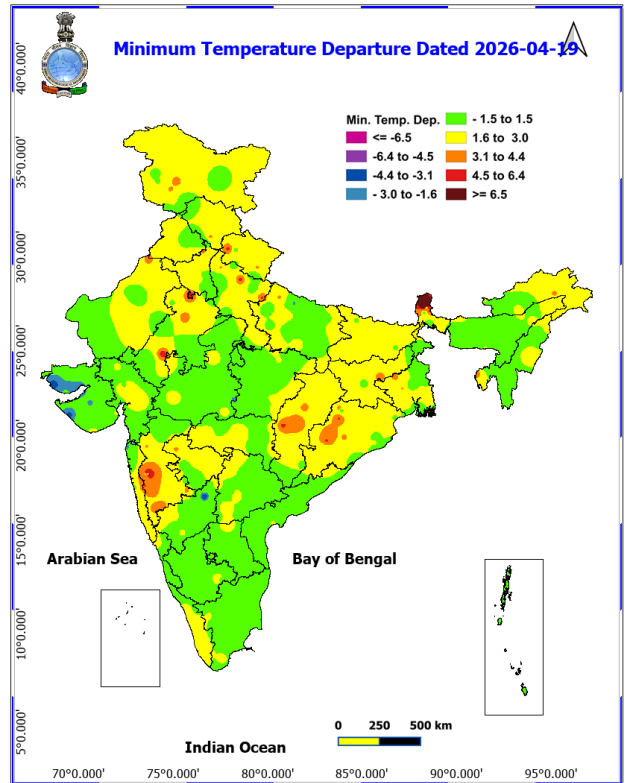
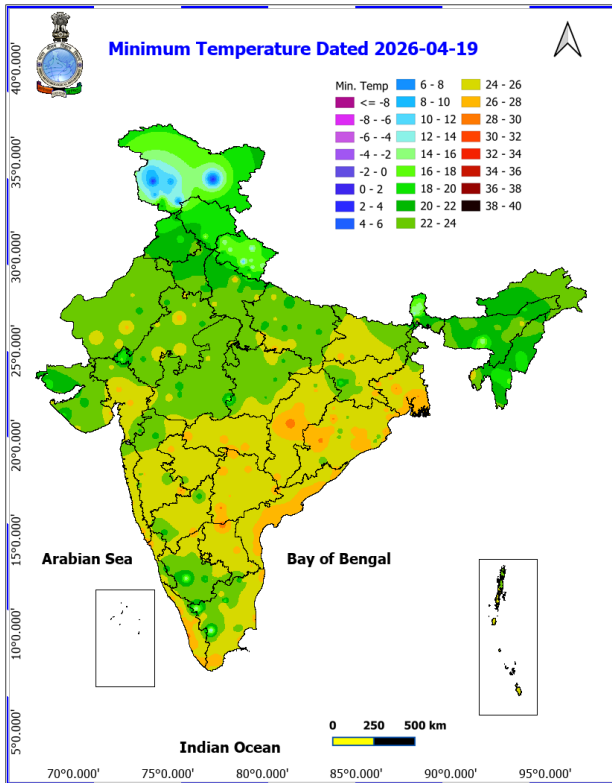


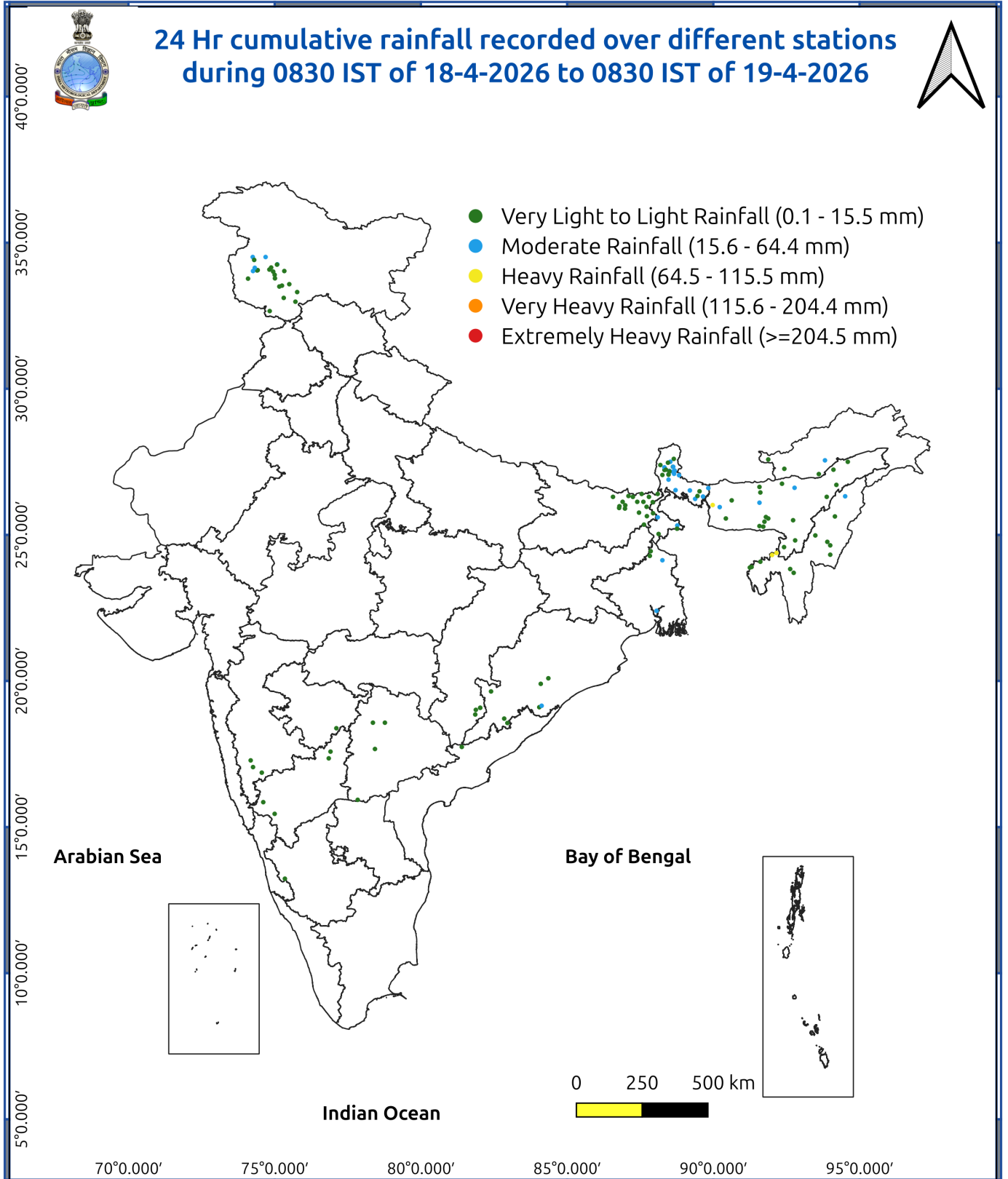
Fig. 3: Minimum Temperatures Dated 2026-04-19

Fig. 4: Departure of Minimum Temp. Dated 2026-04-19



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Impact and Actions

Impact & suggested due to heavy rainfall

- **Isolated heavy rainfall** likely over Assam & Meghalaya during 19th-21st and Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh on 19th with isolated **very heavy rainfall** likely over Arunachal Pradesh on 20th & 21st 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.

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

- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar on 23rd April.
- Isolated **Hailstorm activity** likely over Madhya Maharashtra, Marathawada, Telangana and North Interior Karnataka on 19th 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.

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- Keep away from all the objects that conduct electricity.

- **Impact expected and action suggested due to Heat wave conditions** over West Madhya Pradesh, Chhattisgarh & Vidarbha on 19th & 20th; East Uttar Pradesh, East Rajasthan, East Madhya Pradesh during 19th-23rd; Jharkhand on 20th & 21st; West Uttar Pradesh during 20th-22nd; West Rajasthan during 20th-23rd and Punjab, Haryana, Chandigarh, Odisha during 21st-23rd 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, Marathwada, North Interior Karnataka 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 **Sub-Himalayan West Bengal**, complete harvesting of rice, maize, mustard and potato. Maintain proper drainage in standing crops.
- 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 **Madhya Maharashtra**, provide need-based irrigation to sugarcane, summer groundnut, bajra, vegetables, and orchards as per requirement. In **Marathwada**, apply light and frequent irrigation to maize, summer groundnut and sesame, orchards & vegetables during morning and evening hours. 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.

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Complete harvesting of wheat and chickpea, and ensure safe storage.

- **Jharkhand**- 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 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.
- **Telangana** - Provide irrigation to mango orchards and vegetable crops, as required.
- **Karnataka** - Provide protective irrigation to standing crops such as sugarcane, sesame, green gram, black gram, arecanut, vegetables, and nurseries.
- In regions experiencing hot and humid conditions, including **Tamil Nadu, Kerala, and Gangetic West Bengal, Coastal Karnataka and Coastal Andhra Pradesh and Rayalaseema** 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 & abbreviations:

Heavy Rain:64.5115.5mm; **Very Heavy Rain:**115.6204.4mm; **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, 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.

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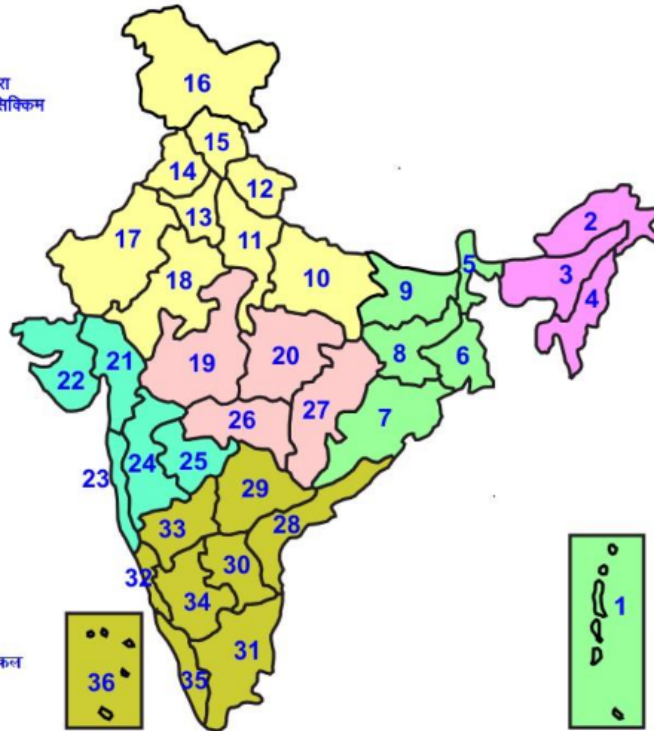
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LEGENDS

- 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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