

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings :

Northeast India:

- **Scattered to Fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Northeast India during next 5 days
- **Isolated heavy rainfall** likely over Arunachal Pradesh during 18th -21st; Assam & Meghalaya on 19th & 20th April.

Northwest India:

- **Fairly widespread to widespread** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 17th-19th and **Isolated to Scattered** over Himachal Pradesh, Uttarakhand during 17th-19th:
- **Isolated** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Punjab, Haryana Chandigarh & Delhi, Rajasthan on 17th April.
- Isolated **Hailstorm activity** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 17th April.

East India:

- **Isolated to Scattered** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Odisha during 17th-21st; Sub-Himalayan West Bengal & Sikkim during 17th- 20th April; Jharkhand on 17th; Gangetic West Bengal on 17th & 18th; Bihar on 18th April.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 18th & 19th April.

Central India:

- **Isolated** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Vidarbha & Chhattisgarh on 20th & 21st April.

South Peninsular India:

- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Rayalaseema on 17th; Interior Karnataka during 17th- 21st; Telangana during 18th -21st April; **with lightning** over Coastal Andhra Pradesh & Yanam during 17th- 21st, Coastal Karnataka during 18th -21st, Rayalaseema, Kerala & Mahe on 20th & 21st April.
- Isolated **Hailstorm activity** likely over North Interior Karnataka on 18th & 19th April.

West India:

- **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Madhya Maharashtra, Marathwada during 18th - 21st April.

Forecast of maximum/day temperatures:

- Gradual fall in maximum temperatures by 2°C likely over Northwest India on 17th-18th and Gradual rise by 2-3°C during 19th-21st April and no significant change thereafter.
- No significant change in maximum temperatures likely over Central India during 17th-19th April and gradual fall by 2-3°C thereafter.
- Gradual rise in maximum temperatures by 3-4°C likely over East India during 17th-21st April and no significant change thereafter.

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- No significant change in maximum temperatures likely over Maharashtra on 17th & 18th April and gradual fall by 2-3°C during 19th -21st April and no significant change thereafter.
- No significant change in maximum temperatures likely over rest parts of the country.

Heat wave and Hot & Humid weather warning:

- **Heat wave conditions** very likely in isolated pockets of Madhya Pradesh, Vidarbha and Chhattisgarh during 17th -19th; Odisha during 17th -20th; Jharkhand during 19th - 21st; Marathwada, Madhya Maharashtra, Rayalaseema, Telangana on 17th & 18th April.
- **Hot & humid weather conditions** very likely to prevail in isolated pockets over Odisha during 17th-23rd; Gangetic West Bengal during 19th-23rd; Coastal Karnataka, Tamil Nadu during 17th-21st, Kerala & Mahe, Coastal Andhra Pradesh & Yanam during 17th -19th April.
- **Warm night conditions** very likely to prevail in isolated pockets over Odisha during 17th-20th April.

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Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at a few places** over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim and Coastal Karnataka; **at isolated places** over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Jharkhand, Himachal Pradesh, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka, South Interior Karnataka and Kerala & Mahe; **Dry** over rest of the country.

❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Sub Himalayan West Bengal & Sikkim:** Khanitar (dist Pakyong), Pedong (dist Kalimpong) 6 Each; Rongli (dist Pakyong), Pakyong (dist Pakyong), Lava (dist Kalimpong) 4 Each; **Jharkhand:** Chakradharpur (dist West Singhum) 4.

❖ **Minimum Temperature Departures (as on 17-04-2026):** **markedly above normal (5.1°C or more)** at a few places over East Rajasthan, Punjab, West Rajasthan; at isolated places over North Interior Karnataka, Odisha, Vidarbha; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Chhattisgarh, Himachal Pradesh, Telangana; at isolated places over East Madhya Pradesh, East Uttar Pradesh, Haryana-Chandigarh-Delhi, Jammu & Kashmir, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, West Madhya Pradesh, West Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Jharkhand, South Interior Karnataka; at a few places over Bihar, Gangetic West Bengal, Gujarat Region, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Rayalaseema, Uttarakhand. **The lowest minimum temperature of 16.5 °C was observed at Najibabad (West Uttar Pradesh) over the plains of India.**

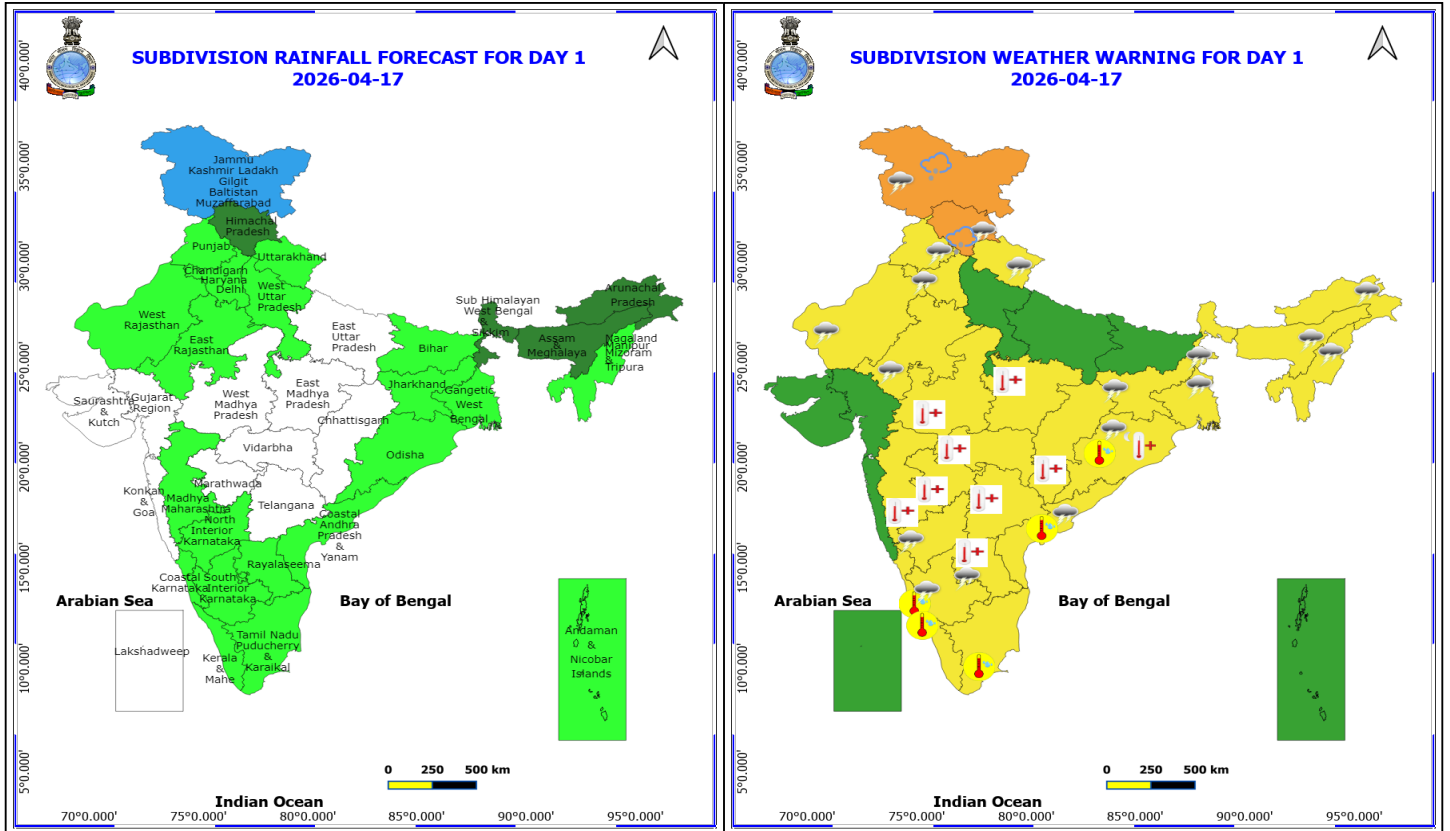
❖ **Maximum Temperature Departures (as on 16-04-2026):** **markedly above normal (5.1°C or more)** at a few places over Jammu & Kashmir; at isolated places over East Madhya Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Haryana-Chandigarh-Delhi, Punjab, Vidarbha, West Rajasthan; at isolated places over Assam & Meghalaya, Chhattisgarh, East Rajasthan, East Uttar Pradesh, Himachal Pradesh, Kerala & Mahe, Madhya Maharashtra, Odisha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Uttarakhand, West Madhya Pradesh, West Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Marathwada; at many places over South Interior Karnataka, Telangana; at a few places over Arunachal Pradesh, Jharkhand, North Interior Karnataka; at isolated places over Bihar, Gangetic West Bengal, Saurashtra & Kutch. These were **markedly below normal (-5.1°C or less)** at isolated places over Bihar; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Sub-Himalayan West Bengal & Sikkim; **below normal (-3.0°C to -1.6°C)** at isolated places over Jharkhand and near normal over rest parts of the country. **The highest maximum temperature of 44.4°C was reported at BANDA (UTTAR PRADESH).**

Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** as a trough in middle & upper level subtropical westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 63°E to the north of Lat. 30°N.
- The **trough** from northwest Rajasthan to southwest Madhya Pradesh across East Rajasthan at 0.9 km above mean sea level persists.
- The **trough** now runs from north Bihar to South Chhattisgarh across Jharkhand and interior Odisha at 0.9 km above mean sea level.
- An **upper air cyclonic circulation** lies over North Coastal Odisha & neighbourhood at 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over southeast Pakistan & adjoining Rajasthan at 1.5 km above mean sea level persists.
- The **north-south trough** from Marathwada to Gulf of Mannar across Interior Karnataka, Rayalaseema and Tamil Nadu at 0.9 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 90-100 knots at 12.5 km above mean sea level prevails over northwest India & Gujarat.
- The **Anti-cyclonic circulation** over interior Maharashtra & adjoining Telangana and North Interior Karnataka between 3.1 & 5.8 km above mean sea level persists.

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.



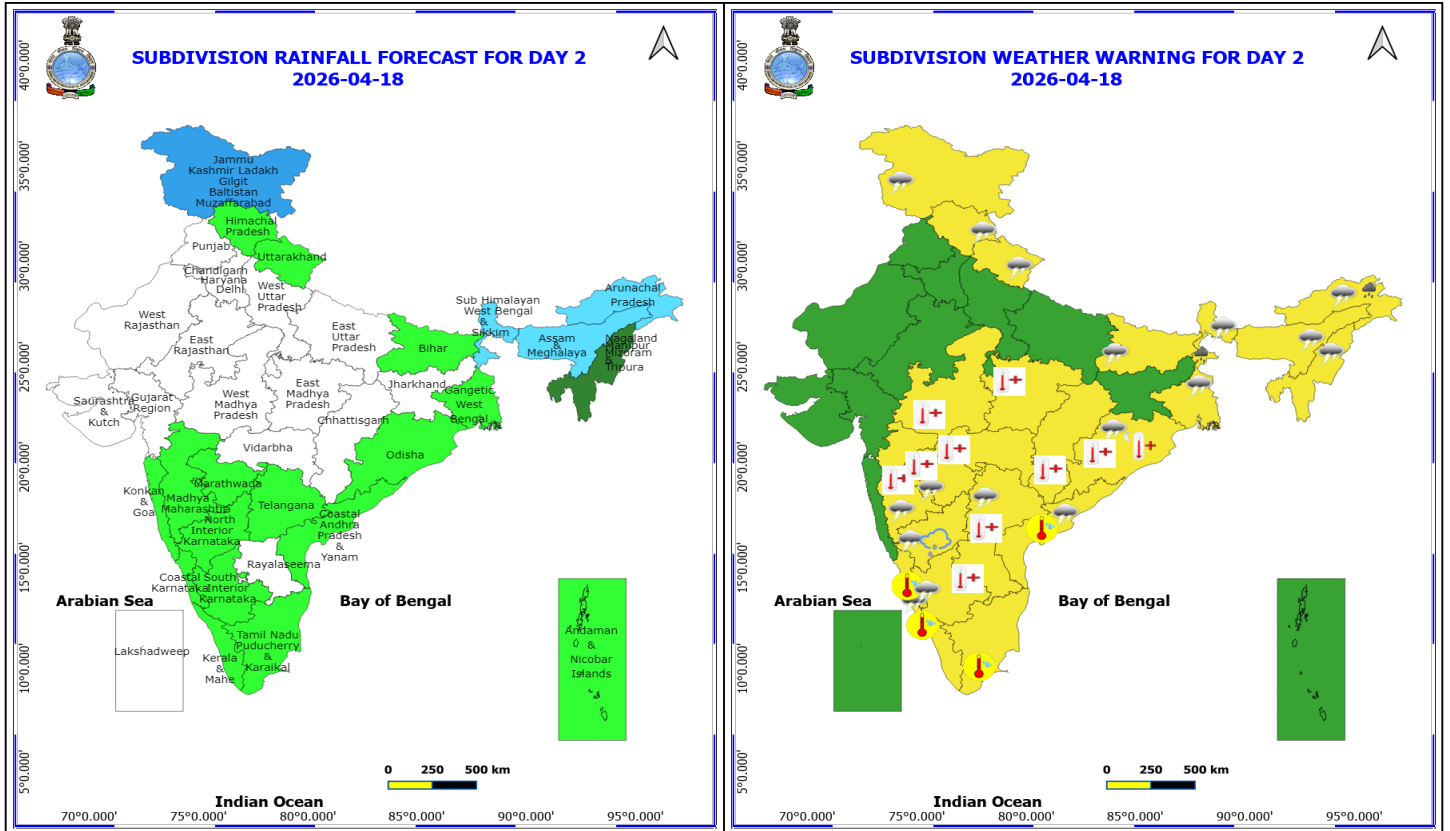
17 April (Day 1)

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

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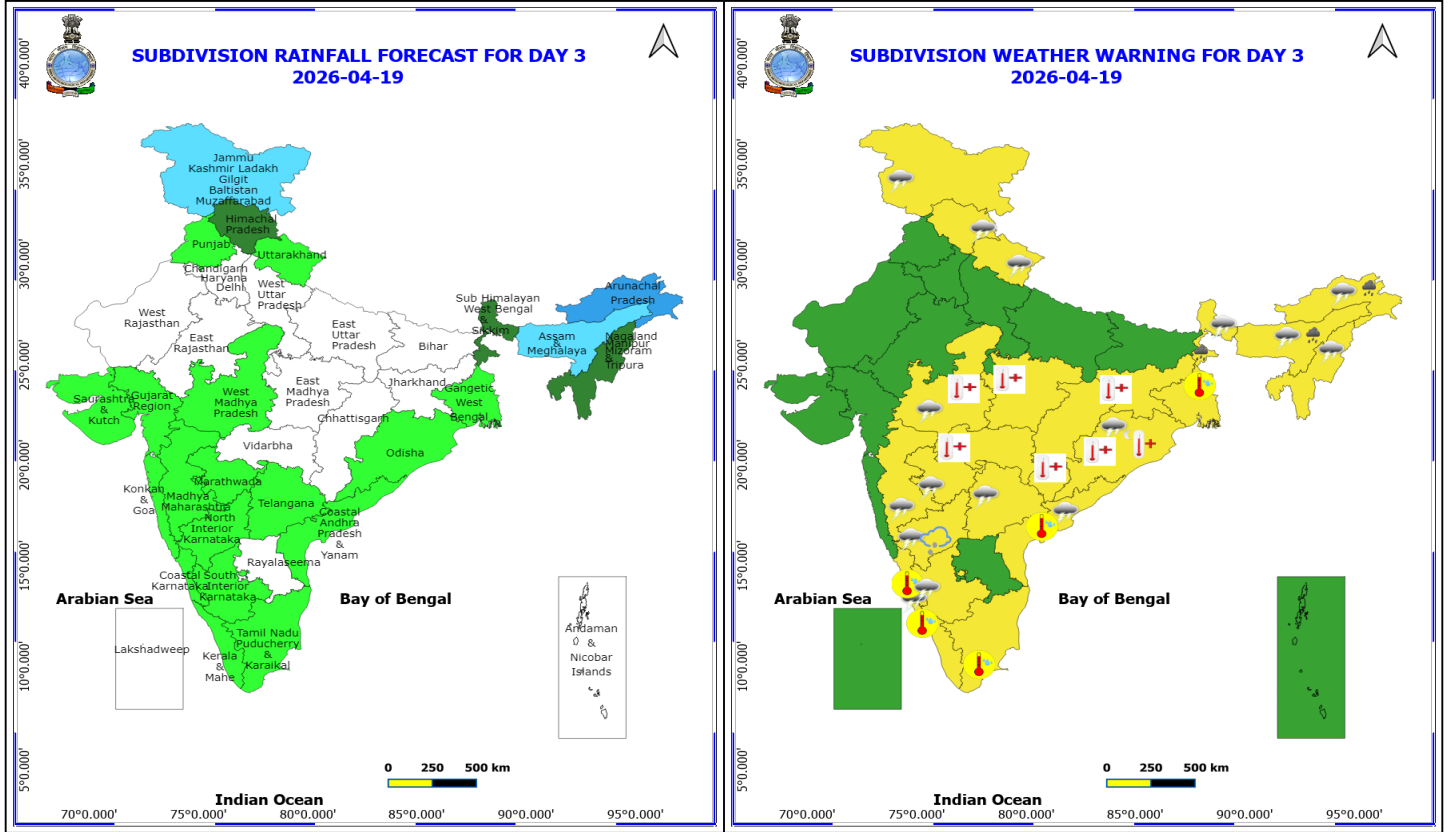
18 April (Day 2)

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

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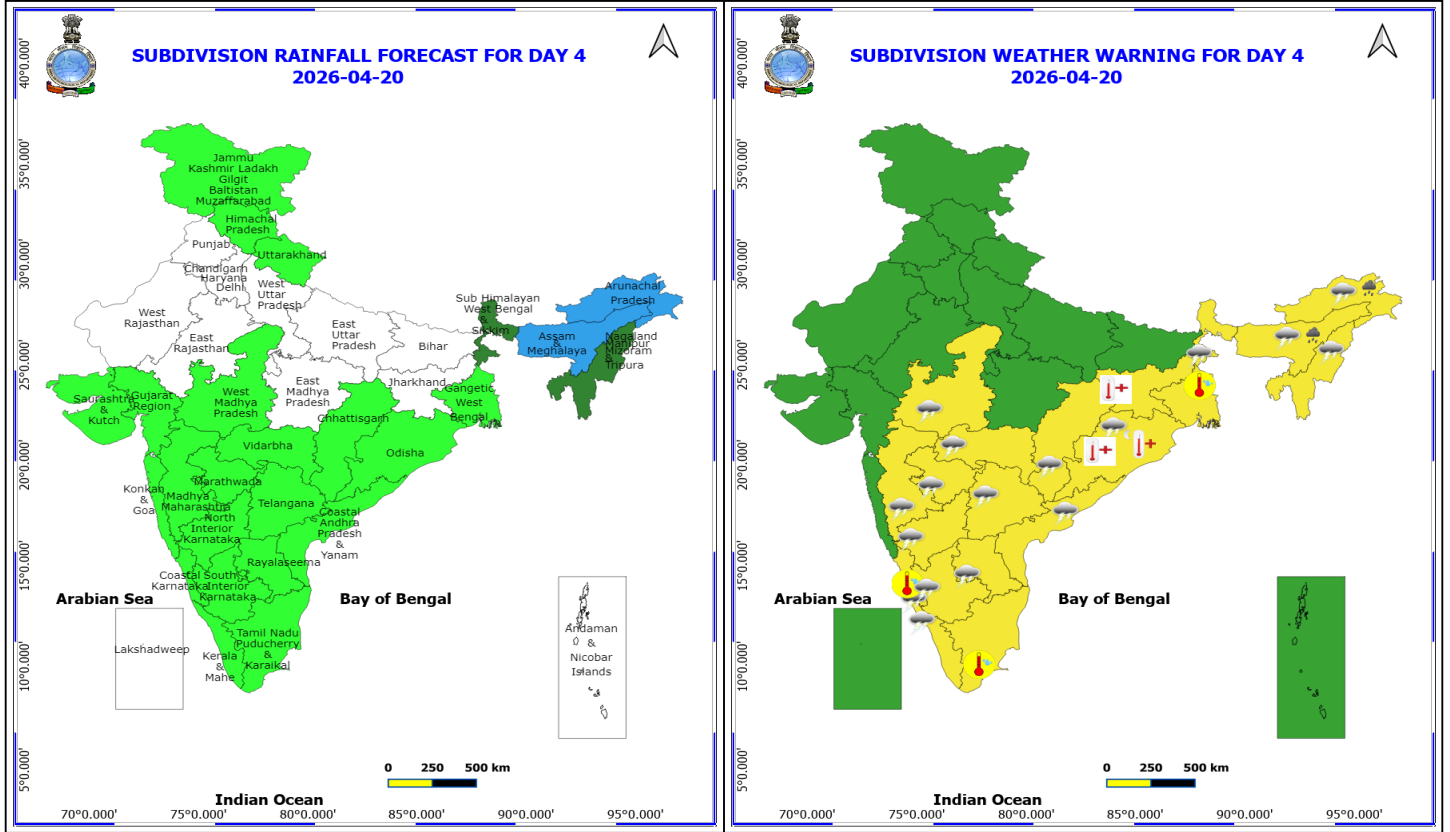
19 April (Day 3)

- ❖ **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 North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Interior Karnataka, 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 Arunachal Pradesh, Assam & Meghalaya, Himachal Pradesh, Odisha, Telangana and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Andhra Pradesh, Coastal Karnataka and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Chhattisgarh, Jharkhand, Madhya Pradesh, Odisha 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.

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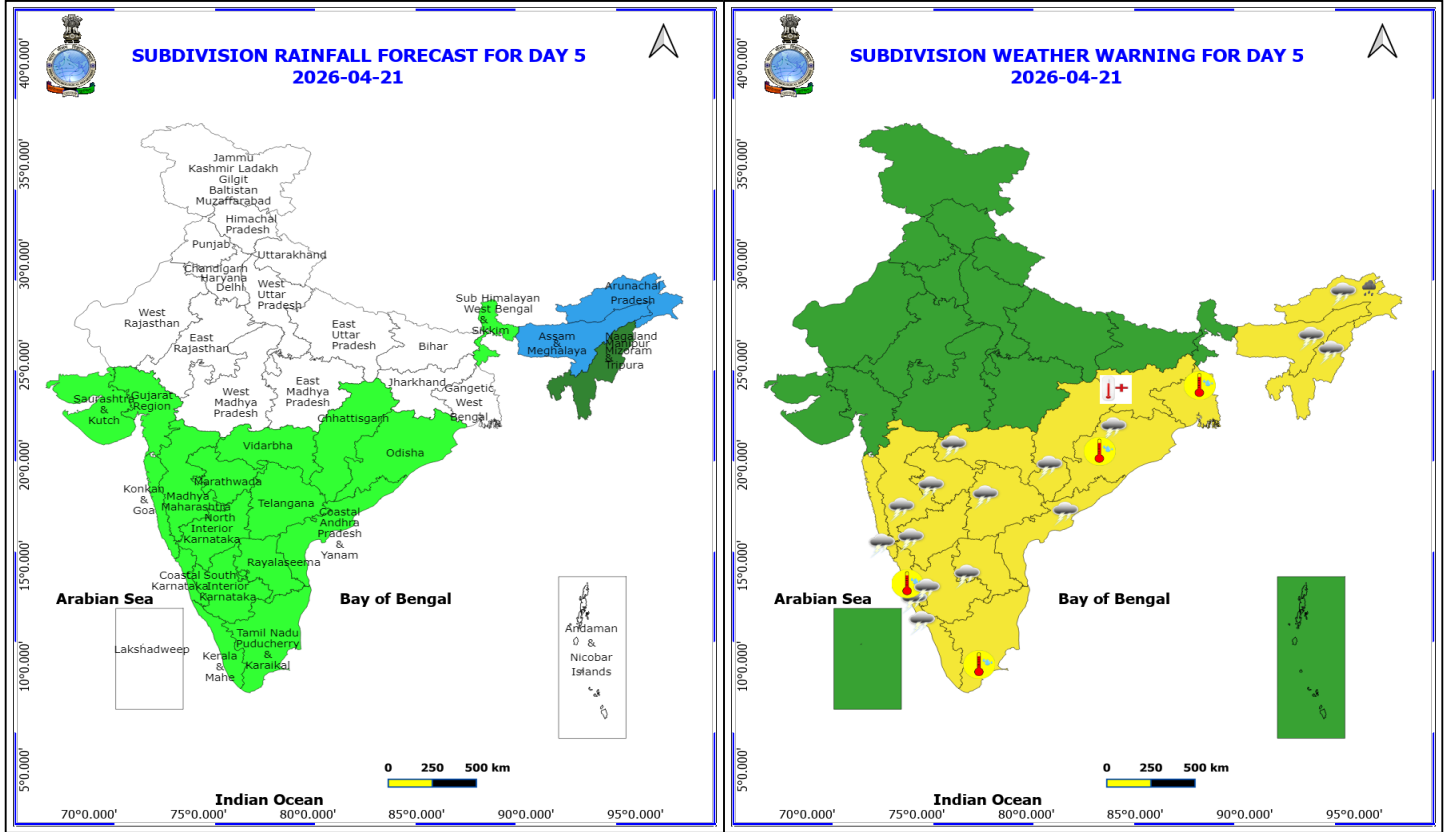
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20 April (Day 4)

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

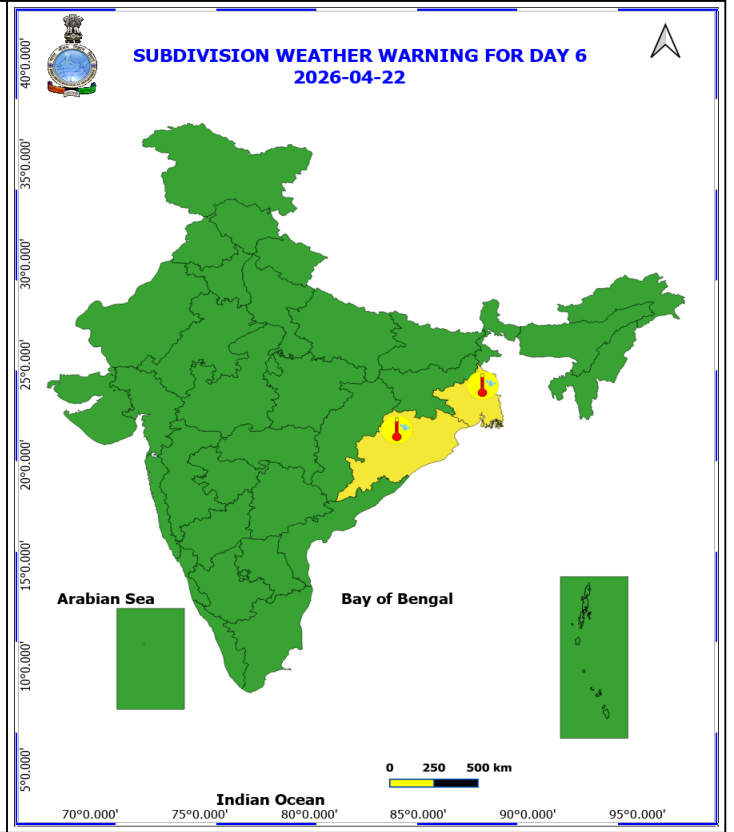
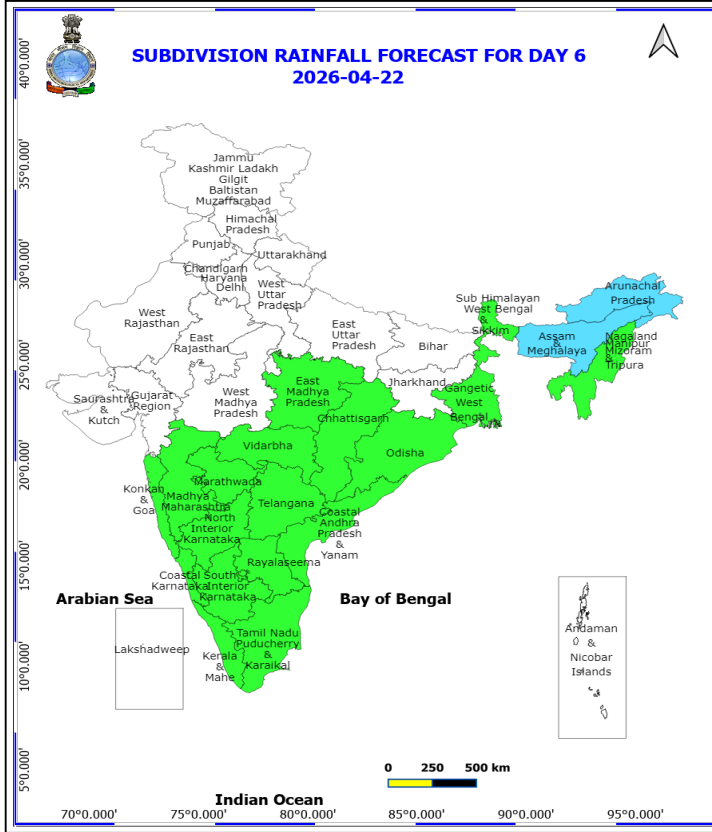
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21 April (Day 5)

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

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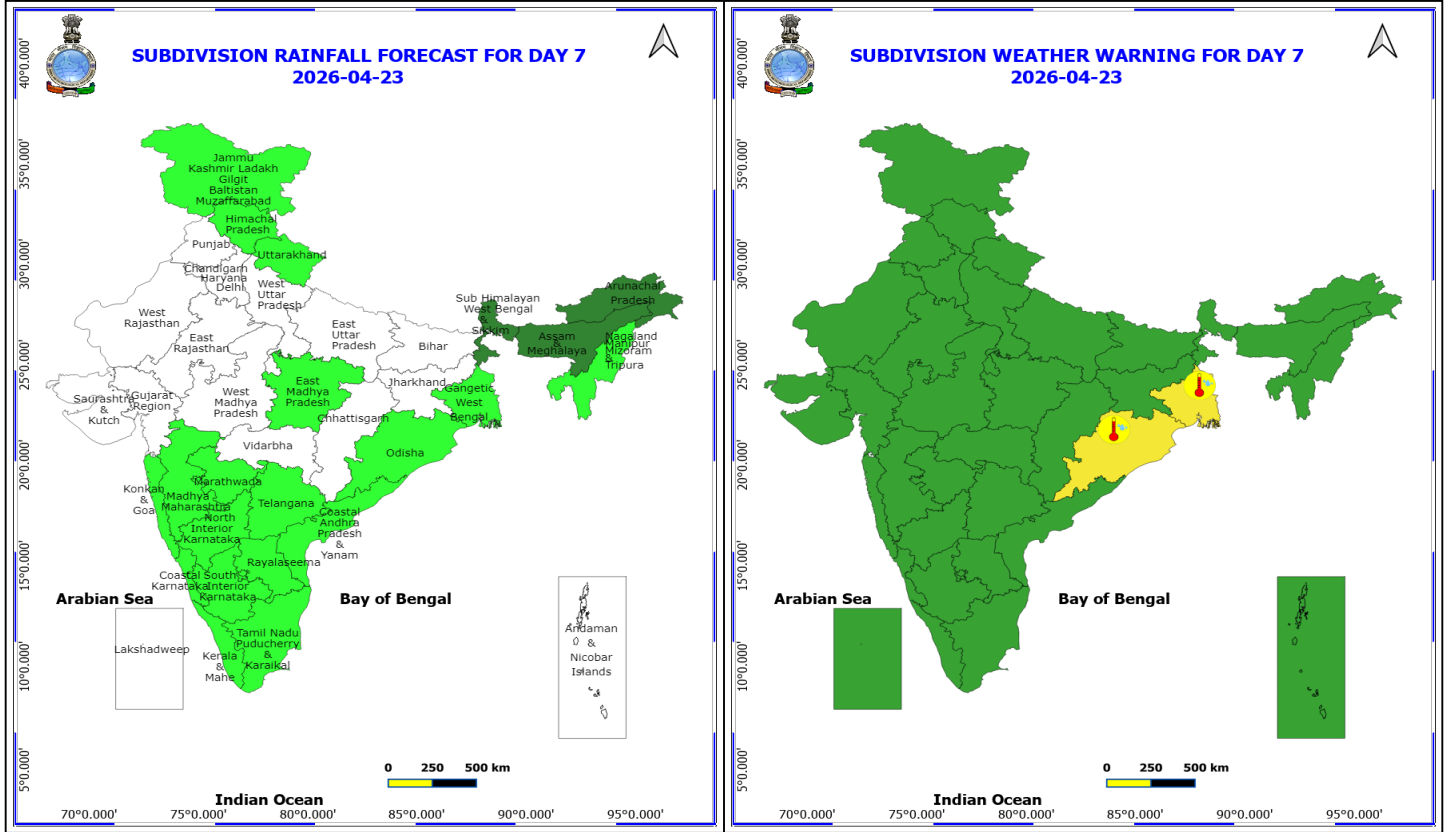


22 April (Day 6)

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

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23 April (Day 7)

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

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Table-1

7 Days Rainfall Forecast

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

Fig. 2: Departure of Maximum Temp. Dated 2026-04-16

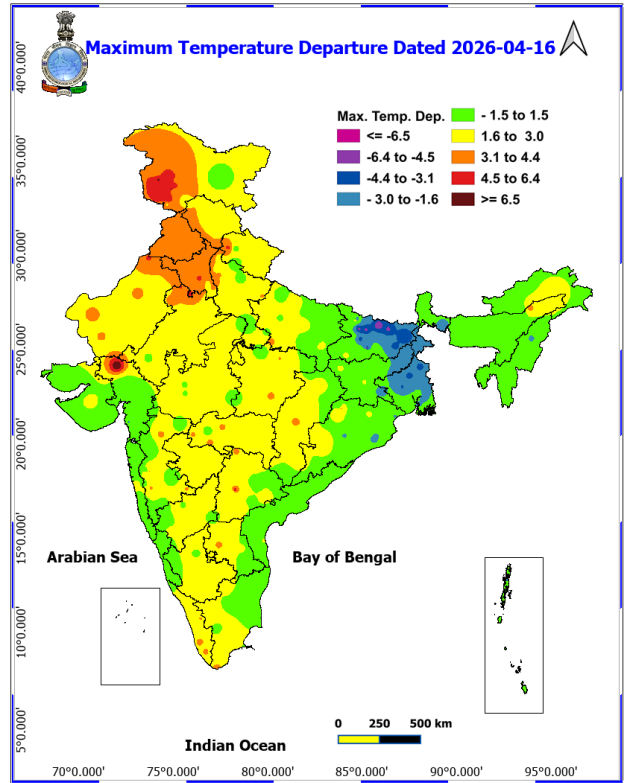
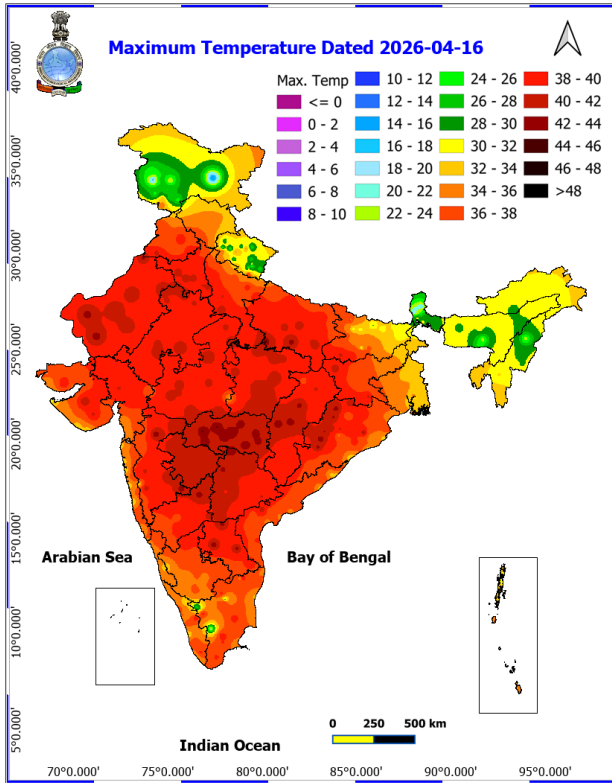
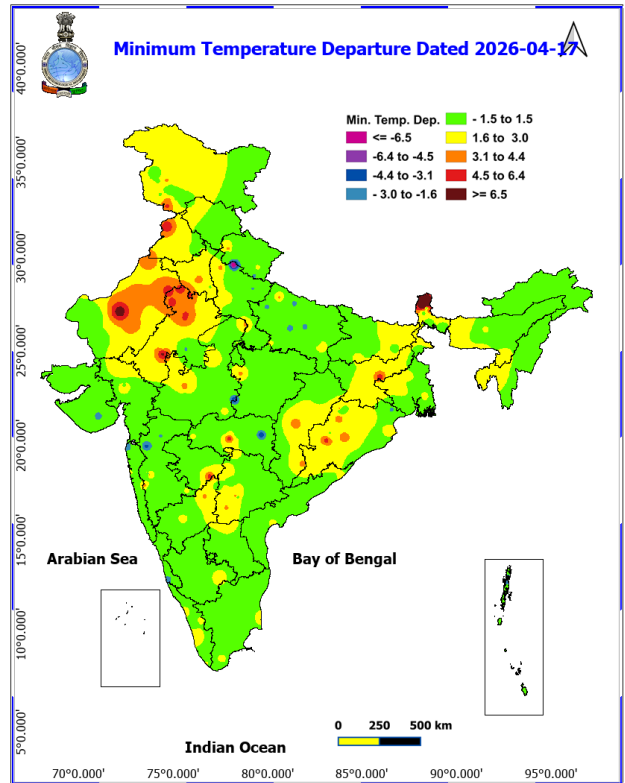
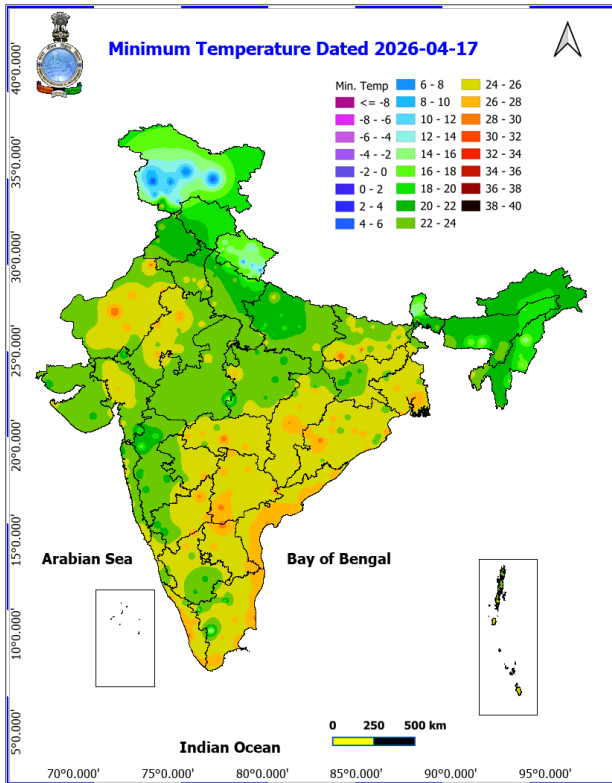


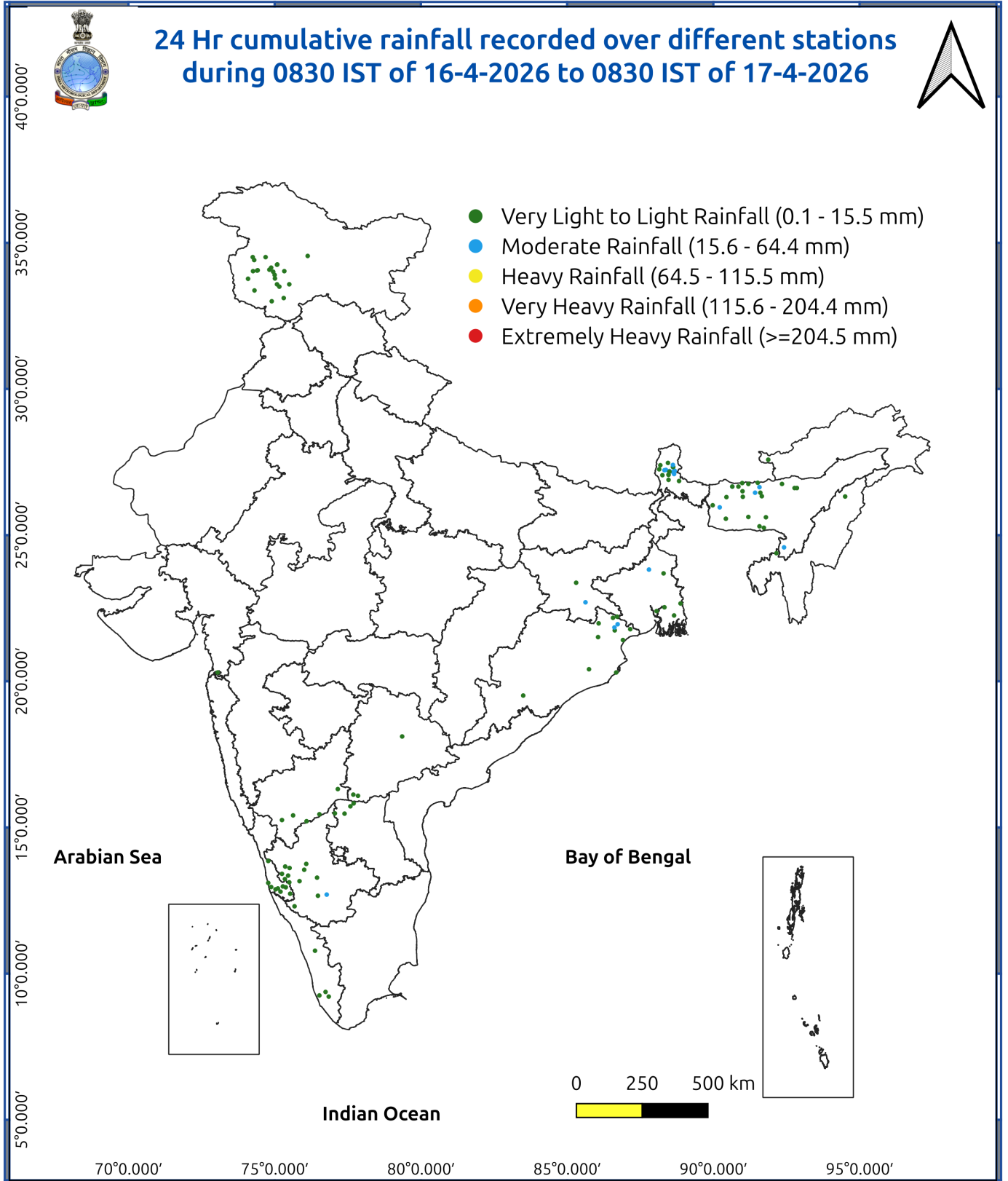
Fig. 3: Minimum Temperatures Dated 2026-04-17

Fig. 4: Departure of Minimum Temp. Dated 2026-04-17



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Impact and Actions

Impact & suggested due to heavy rainfall

- **Isolated heavy rainfall** likely over Arunachal Pradesh during 18th -21st: Assam & Meghalaya on 19th & 20th April, Sub-Himalayan West Bengal on 18th & Sikkim on 19th 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 Hailstorm over

- **Isolated Hailstorm activity** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 17th, North Interior Karnataka on 18th & 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.
- Keep away from all the objects that conduct electricity.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Hailstorms

- In **Jammu & Kashmir** and **Himachal Pradesh**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage.
- Undertake harvesting of matured crops, fruits and vegetables immediately and shift them to safer 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**, apply light and frequent irrigation to sugarcane, summer groundnut, vegetables, banana, and orchards. Cover banana bunches with leaves. In **Marathwada**, provide light, frequent irrigation to crops such as maize, summer groundnut, sesame, orchards, and vegetables during the 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. Complete harvesting of wheat and chickpea, and ensure safe storage.
- **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**, 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

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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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