

2026-03-20

Time of Issue: 08:38:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Northwest India:

- **Fairly widespread to widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) likely over Western Himalayan region on 20th March and reduction in intensity thereafter. **Isolated heavyrainfall/snowfall very likely over Himachal Pradesh and Uttarakhand on 20th March.**
- Isolated to Scattered light to moderate rainfall accompanied with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph) likely over Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan on 20th East Uttar Pradesh on 20th & 21st March.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Uttarakhand on 20th March.
- Isolated **Hailstorm** activity likely over Uttarakhand, Punjab, Haryana, Chandigarh and West Uttar Pradesh and East Uttar Pradesh on 20th March.

Northeast India:

- **Scattered to fairly widespread** light to moderate rainfall with **gusty winds speed reaching (30-50 kmph)** likely over Northeast India on 21st **thunderstorm & lightning** likely over Northeast India during next 5 days.

East & Central India:

- **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning& gusty winds speed reaching (30-50 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 20th-23rd March. Isolated **heavyrainfall** very likely over Sub-Himalayan West Bengal & Sikkim during 20th -21st with isolated **very heavy falls** on 20th March.
- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 gusting upto 60 kmph)** likely over Central India during next 3 days & East India during next 5 days.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** very likely at isolated places over Jharkhand on 20th; Gangetic West Bengal on 20th & 21st March.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim on 20th & 21st March.
- Isolated **Hailstorm** activity likely over Madhya Pradesh & Jharkhand on 20th; Sub-Himalayan West Bengal & Sikkim and Gangetic West Bengal & Odisha during 20th -21st; Bihar on 20th March.

South Peninsular India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning& gusty winds speed reaching (30-50 kmph)** likely over Kerala & Mahe and Interior Karnataka during 20th -21st; Coastal Andhra Pradesh & Yanam, Rayalaseema during 20th-23rd; Telangana on 20th; **with lightning** over Tamil Nadu, Puducherry & Karaikal on 20th and Coastal Karnataka during 20th -21st March.

West India:

- **Isolated** light/moderate rainfall with **thunderstorm & lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Maharashtra, Marathwada on 20th & 21st March.

Forecast of maximum/day temperatures:

- Gradual fall in maximum temperatures by 3-4°C likely over Northwest India during next 24 hours and gradual rise by 3-5°C during subsequent 5 days.

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- No significant change in maximum temperatures likely over Central India during next 2 days; gradual rise by 3-5°C during subsequent 4 days.
- Gradual fall in maximum temperatures by 3-4°C likely over East India during next 2 days and gradual rise by 3-4°C during subsequent 4 days.
- No significant change in maximum temperatures likely over Northeast India during next 2 days; gradual rise by 3-4°C during subsequent 2 days and no significant change thereafter.
- Gradual rise in maximum temperatures by 3-5°C likely over West India during subsequent 6 days.
- No significant change in maximum temperatures likely over South Peninsular India during next 2 days; gradual rise by 2-3°C during subsequent 4 days.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 20th March to 24th March, 2026:

- **Bay of Bengal:** Along and off north Odisha & West Bengal coasts from 20th March to 22nd March.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over West Uttar Pradesh, Uttarakhand, Haryana Chandigarh & Delhi, Himachal Pradesh, Jammu & Kashmir and Ladakh, West Rajasthan, Andaman & Nicobar Islands, Marathwada, Vidarbha, West Madhya Pradesh and Gujarat Region; **at many places** over Tamilnadu Puducherry & Karaikal, East Rajasthan, Odisha, Jharkhand, East Uttar Pradesh, Punjab, Assam & Meghalaya, Saurashtra & Kutch, Telangana, Chhattisgarh, Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, North Interior Karnataka and Kerala & Mahe; **Dry** over rest of the country.

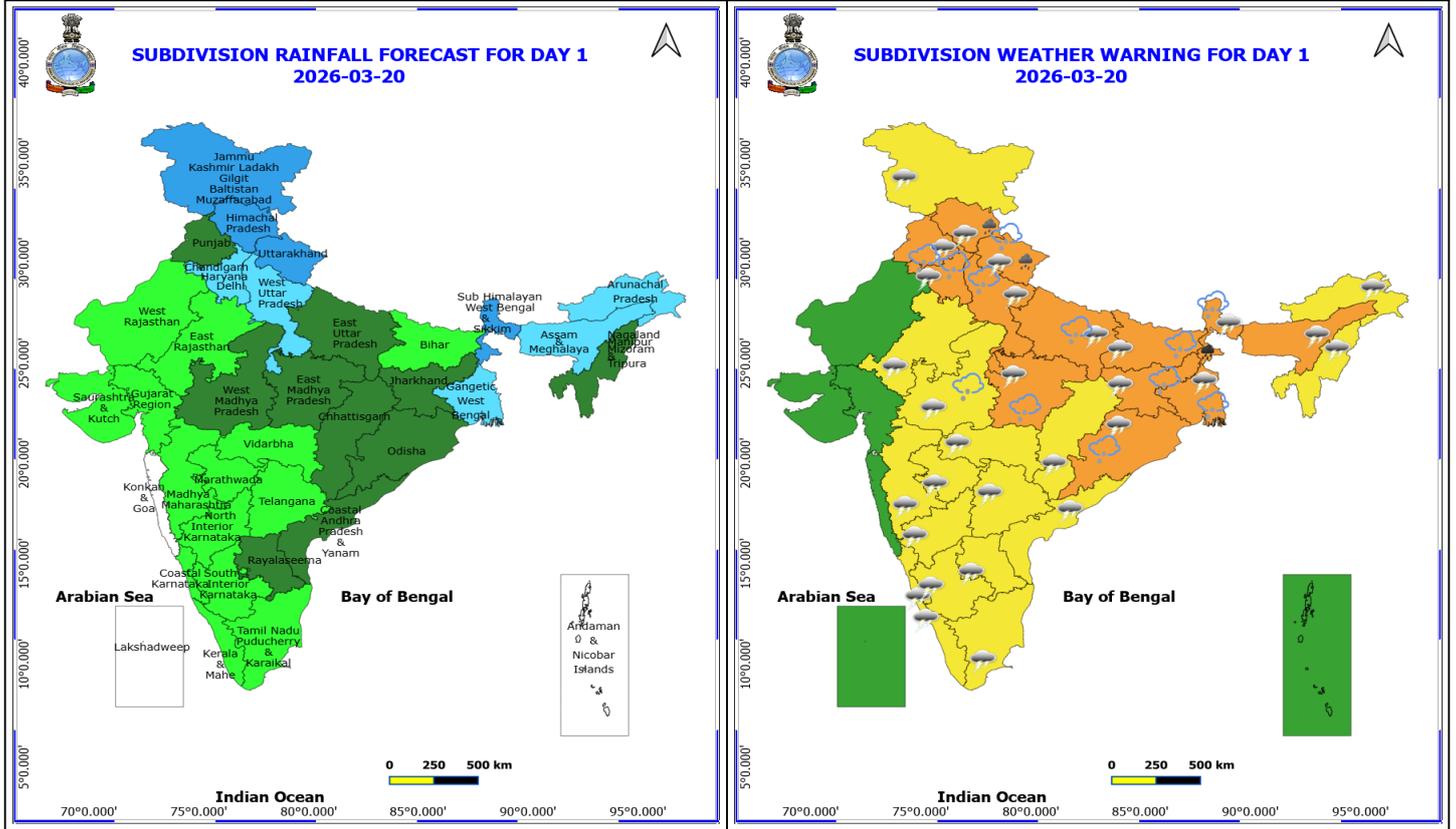
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Tamilnadu Puducherry & Karaikal:** Salem (dist Salem) 4; **Saurashtra & Kutch:** Rajkot AP (dist Rajkot) 4.

❖ **Minimum Temperature Departures (as on 19-03-2026):** were appreciably above normal (3.1? to 5.0?) over Gangetic West Bengal, East Uttar Pradesh, Bihar, East Madhya Pradesh, Jharkhand, East Rajasthan; above normal (1.6? to 3.0?) over Jammu-Kashmir, Haryana, West Uttar Pradesh, West Madhya Pradesh, Odisha, Gujarat State, north Punjab; below normal (-3.0? to -1.6?) over Telangana, Rayalaseema, Interior Karnataka & Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. **The lowest minimum temperature of 12.0°C was observed at Gurdaspur (Punjab) over the Plains of India.**

❖ **Maximum Temperature Departures (as on 19-03-2026):** markedly above normal(> 5.1°C) at isolated places over Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at few places over Jharkhand; at isolated places over East Uttar Pradesh. above normal(1.6°C to 3.0°C) at few places over Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka; at isolated places over Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Bihar, West Uttar Pradesh, East Madhya Pradesh, Konkan & Goa and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Andaman & Nicobar Islands, West Madhya Pradesh, Vidarbha and South Interior Karnataka; at most places over Lakshadweep; at few places over Assam & Meghalaya, Saurashtra & Kutch and Chhattisgarh; at isolated places over Uttarakhand, Madhya Maharashtra, Marathwada and Tamil Nadu, Puducherry & Karaikal. **The highest maximum temperature of 38.2°C was reported at DALTONGANJ (JHARKHAND).**

Meteorological Analysis (Based on 0530 hours IST)

- The **upper air cyclonic circulation** over central parts of north Madhya Pradesh now lies over northwest Madhya Pradesh & adjoining south Uttar Pradesh at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Northeast Assam & adjoining Arunachal Pradesh persists and now seen between 1.5 & 3.1 km above mean sea level.
- A **trough runs** from Jharkhand to West Assam across north Gangetic West Bengal at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Haryana at 1.5 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 90 knots at 12.6 km above mean sea level prevails over East India.
- The **upper air cyclonic circulation** over Coastal Andhra Pradesh & Yanam & neighbourhood now seen over westcentral Bay of Bengal off north Coastal Andhra Pradesh at 3.1 km above mean sea level.
- The **Western Disturbance** as an upper air cyclonic circulation now seen over north Punjab & neighbourhood at 3.1 km above mean sea level with the trough aloft in upper & middle level westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 72°E to the north of Lat. 22°N.
- The **trough** from Gulf of Mannar to South Interior Karnataka now lies over Gulf of Mannar to North Interior Karnataka across Tamil Nadu and South Interior Karnataka at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over interior Tamil Nadu adjoining Kerala now seen over South Interior Karnataka & neighbourhood at 1.5 km above mean sea level.
- A fresh feeble **Western Disturbance** is likely to affect northwest India from 22nd March 2026.
- The **upper air cyclonic circulation** over west Rajasthan at 1.5 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over East Uttar Pradesh & neighbourhood at 0.9 km above mean sea level has become less marked.
- The **trough** from above **cyclonic circulation** over central parts of North Madhya Pradesh to Marathwada across Vidarbha at 0.9 km above mean sea level has become less marked.



20 March (Day 1)

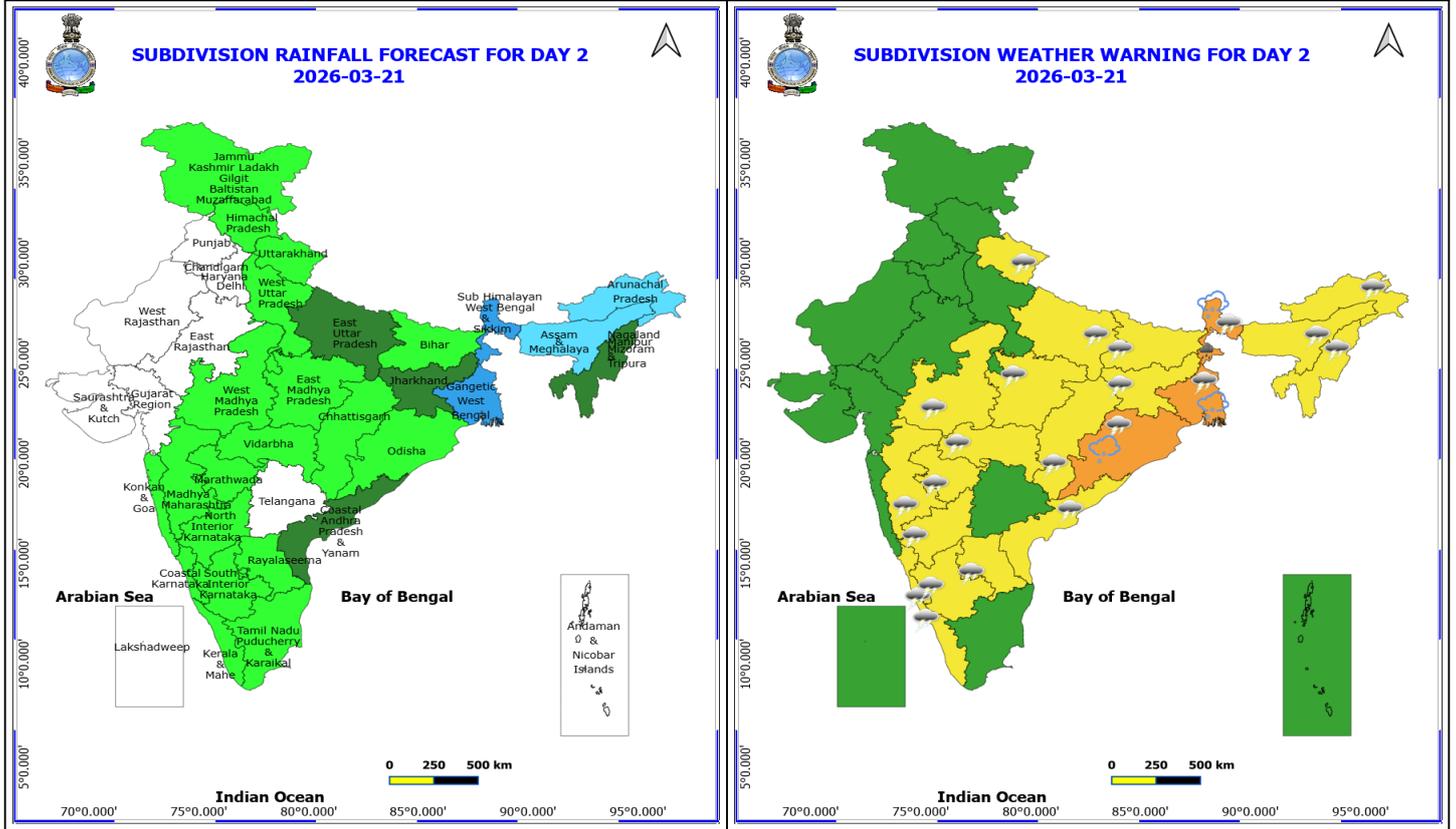
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** very likely at isolated places over Himachal Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Bihar, Haryana,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

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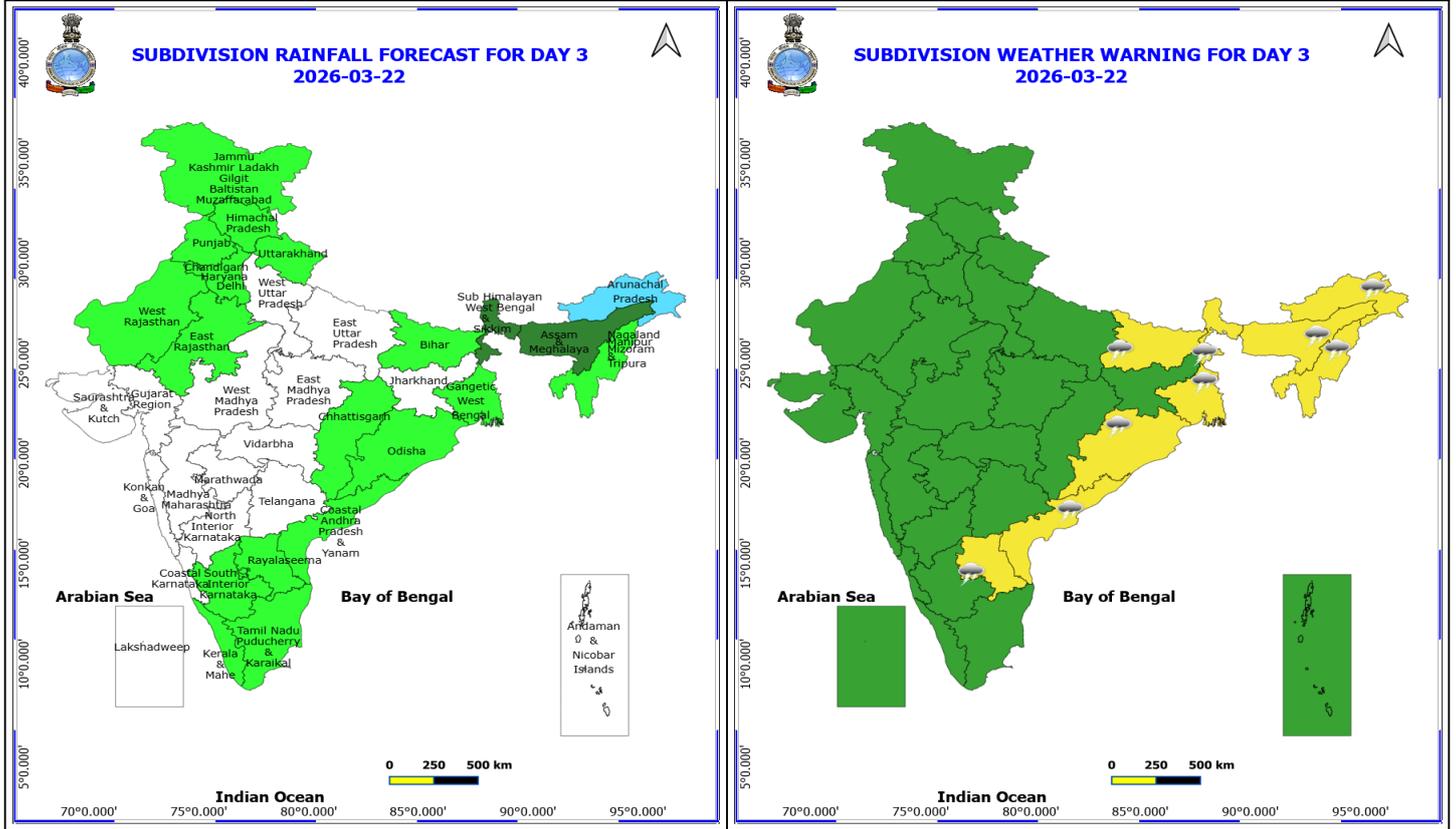
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21 March (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Odisha and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(60-70kmph) gusting to 80 kmph** very likely at isolated places over Gangetic West Bengal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Bihar, Jharkhand and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Chhattisgarh, East Uttar Pradesh, Interior Karnataka, Madhya Maharashtra, Madhya Pradesh, Marathwada and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe, Uttarakhand and Vidarbha.
- ❖ Squally weather with speed 40–50 kmph gusting to 60 kmph likely to prevail along and off north Odisha & West Bengal coasts.

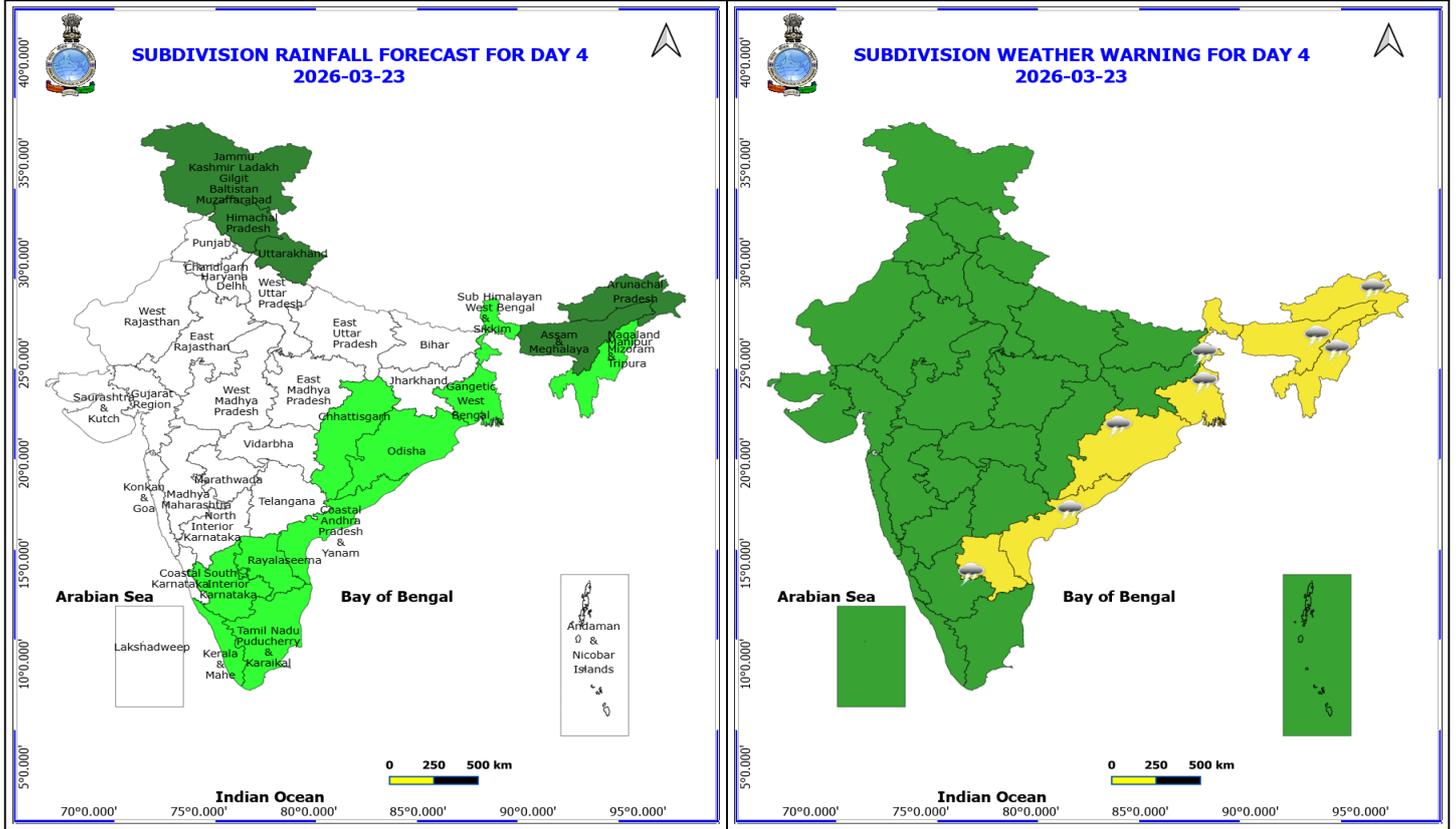
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22 March (Day 3)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Gangetic West Bengal and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

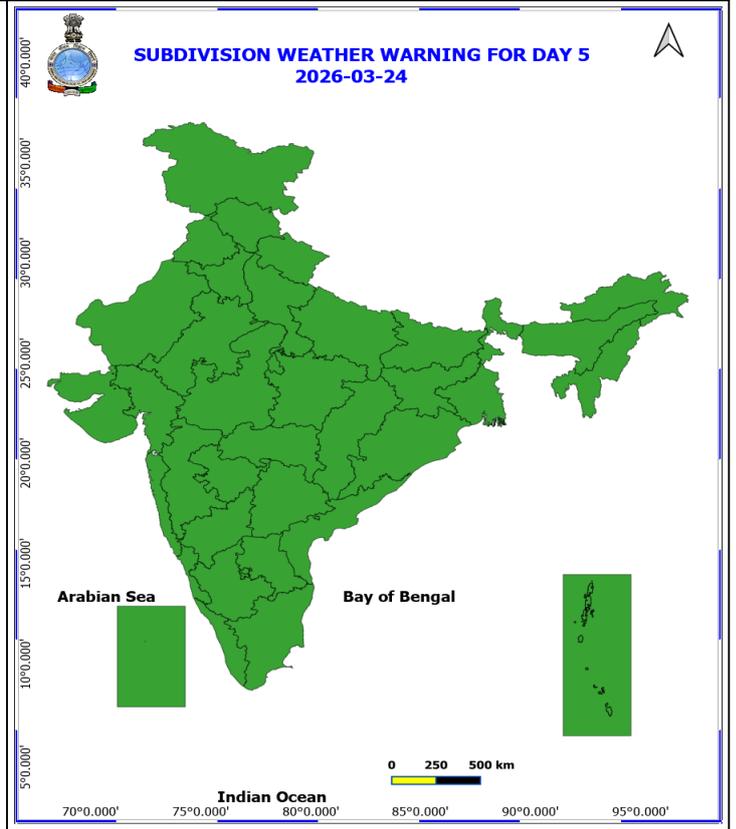
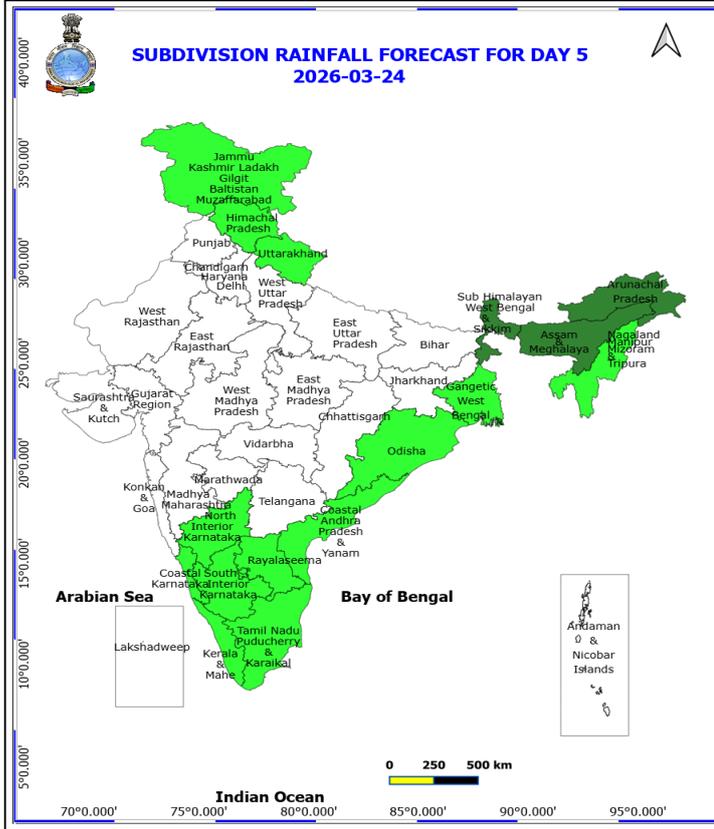
No Fishermen Warning



23 March (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Odisha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

No Fishermen Warning

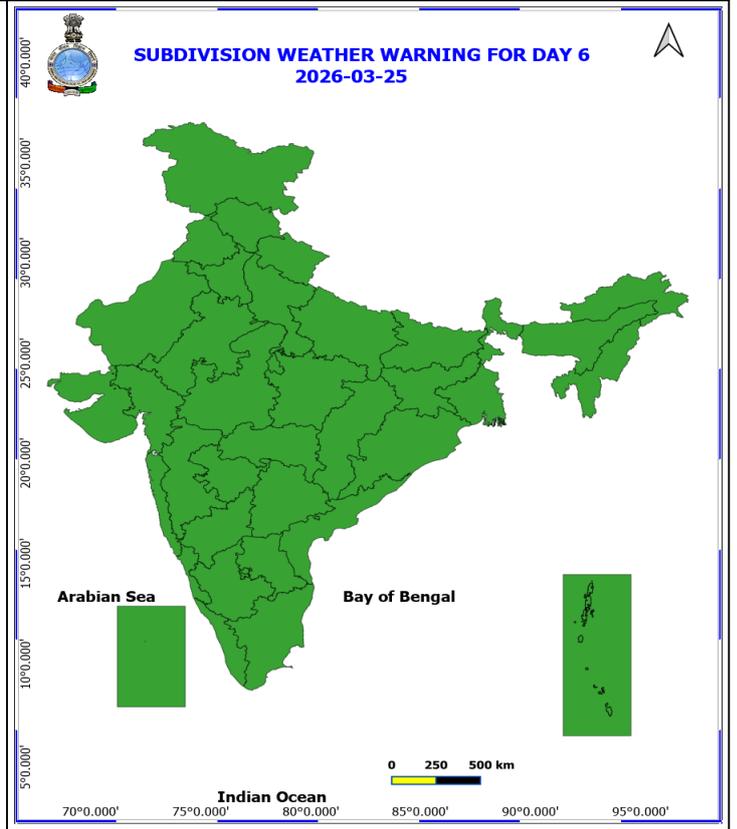
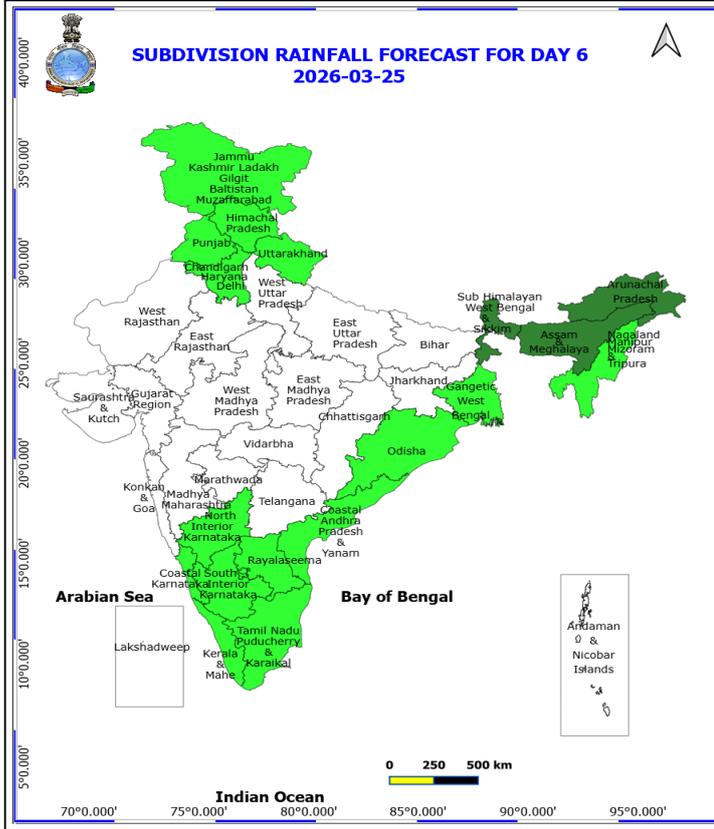


24 March (Day 5)

No Warning

No Fishermen Warning

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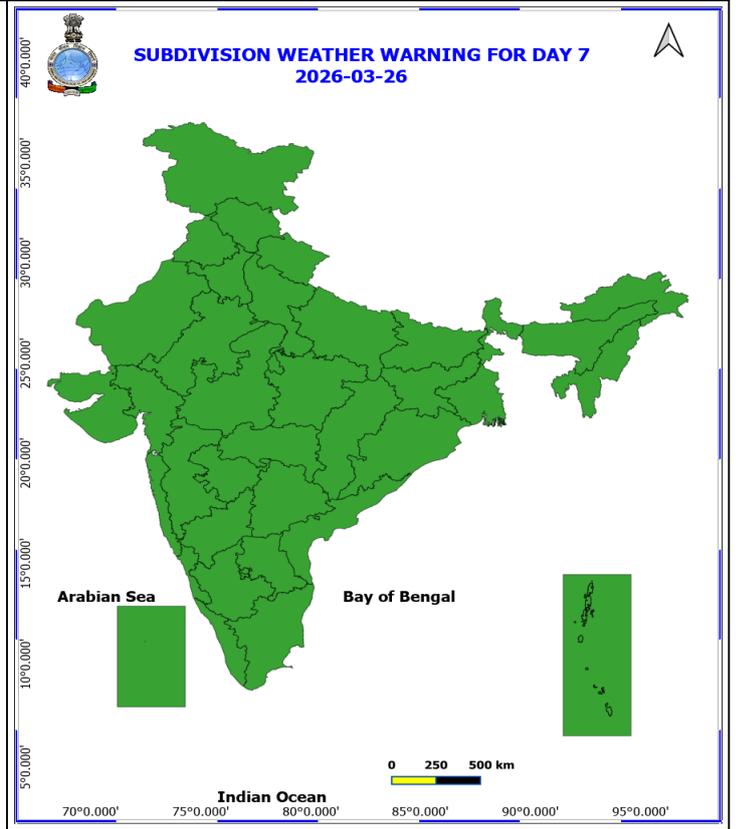
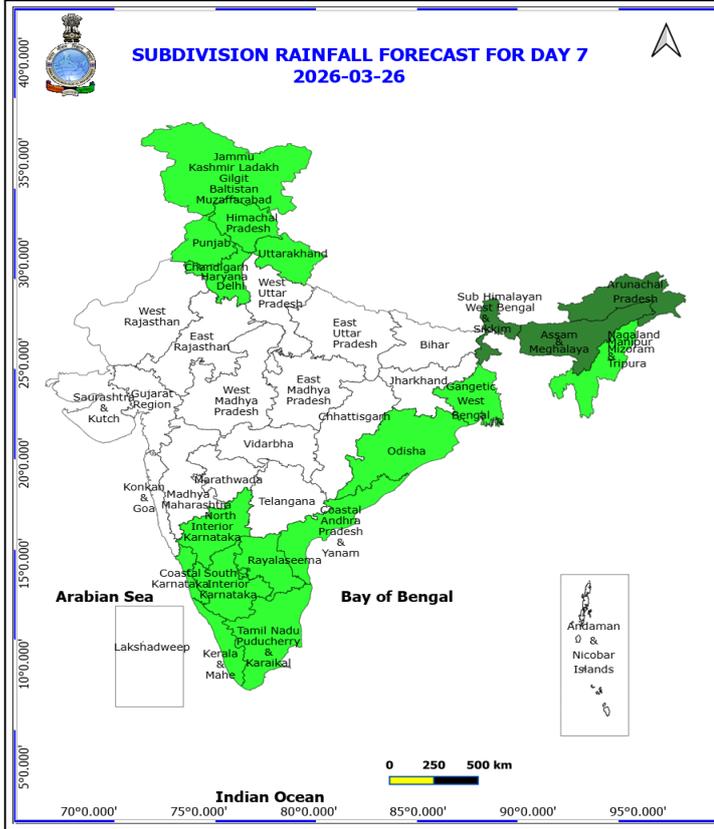


25 March (Day 6)

No Warning

No Fishermen Warning

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26 March (Day 7)

No Warning

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	20- Mar	21- Mar	22- Mar	23- Mar	24- Mar	25- Mar	26- Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY						
2	ARUNACHAL PRADESH	FWS	FWS	FWS	SCT	SCT	SCT	SCT
3	ASSAM & MEHGHALAYA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
4	N. M. M. & T.	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
5	S.H. WEST BENGAL & SIKKIM	WS	WS	SCT	ISOL	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	FWS	WS	ISOL	ISOL	ISOL	ISOL	ISOL
7	ODISHA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	SCT	DRY	DRY	DRY	DRY	DRY
9	BIHAR	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	SCT	SCT	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	FWS	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	WS	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	FWS	DRY	ISOL	DRY	DRY	ISOL	ISOL
14	PUNJAB	SCT	DRY	ISOL	DRY	DRY	ISOL	ISOL
15	HIMACHAL PRADESH	WS	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	WS	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	DRY	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	DRY	ISOL	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	SCT	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL						
32	COSTAL KARNATAKA	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL						
35	KERALA	ISOL						
36	LAKSHDWEEP	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 2026-03-19

Fig. 2: Departure of Maximum Temp. Dated 2026-03-19

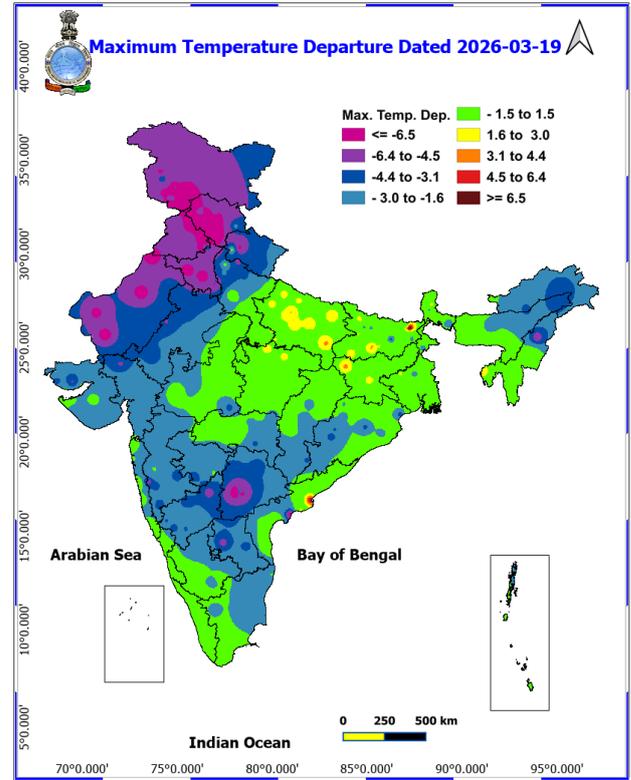
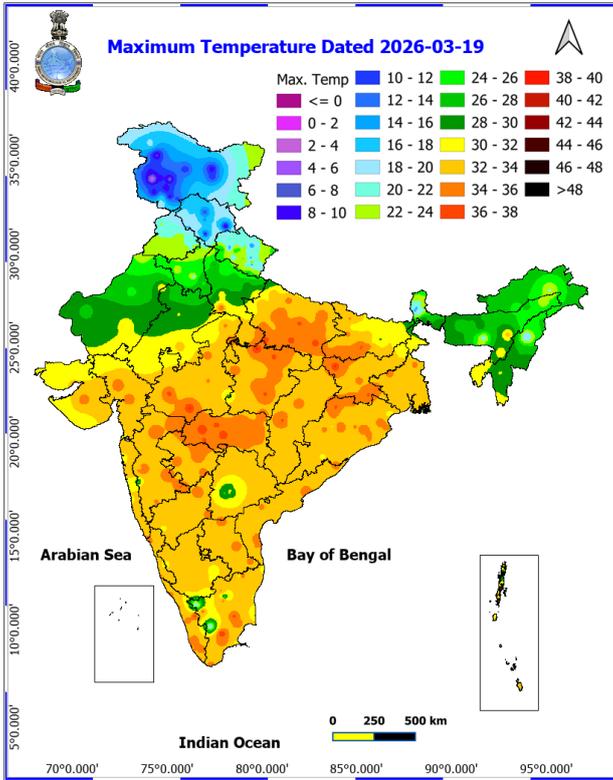
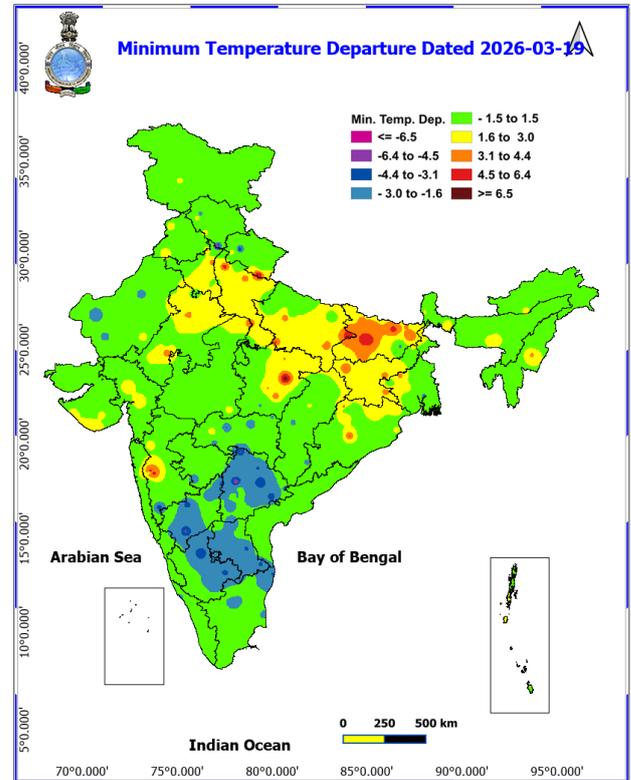
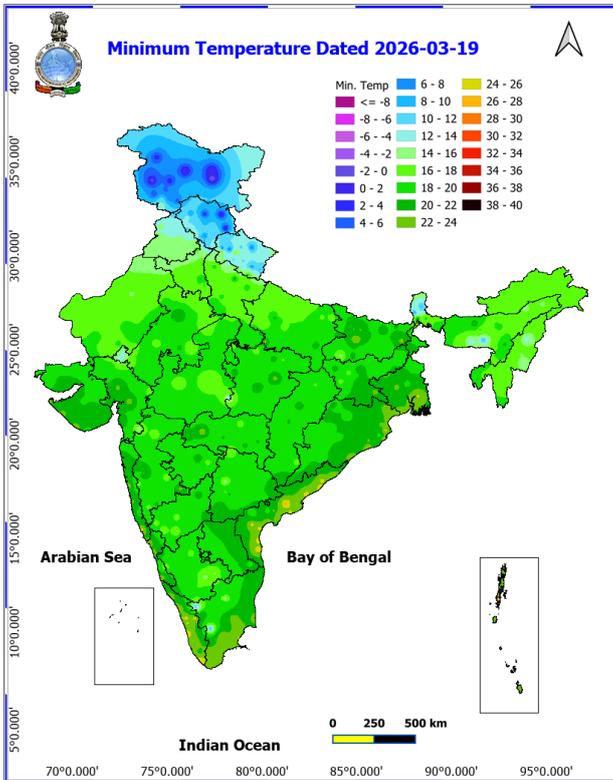


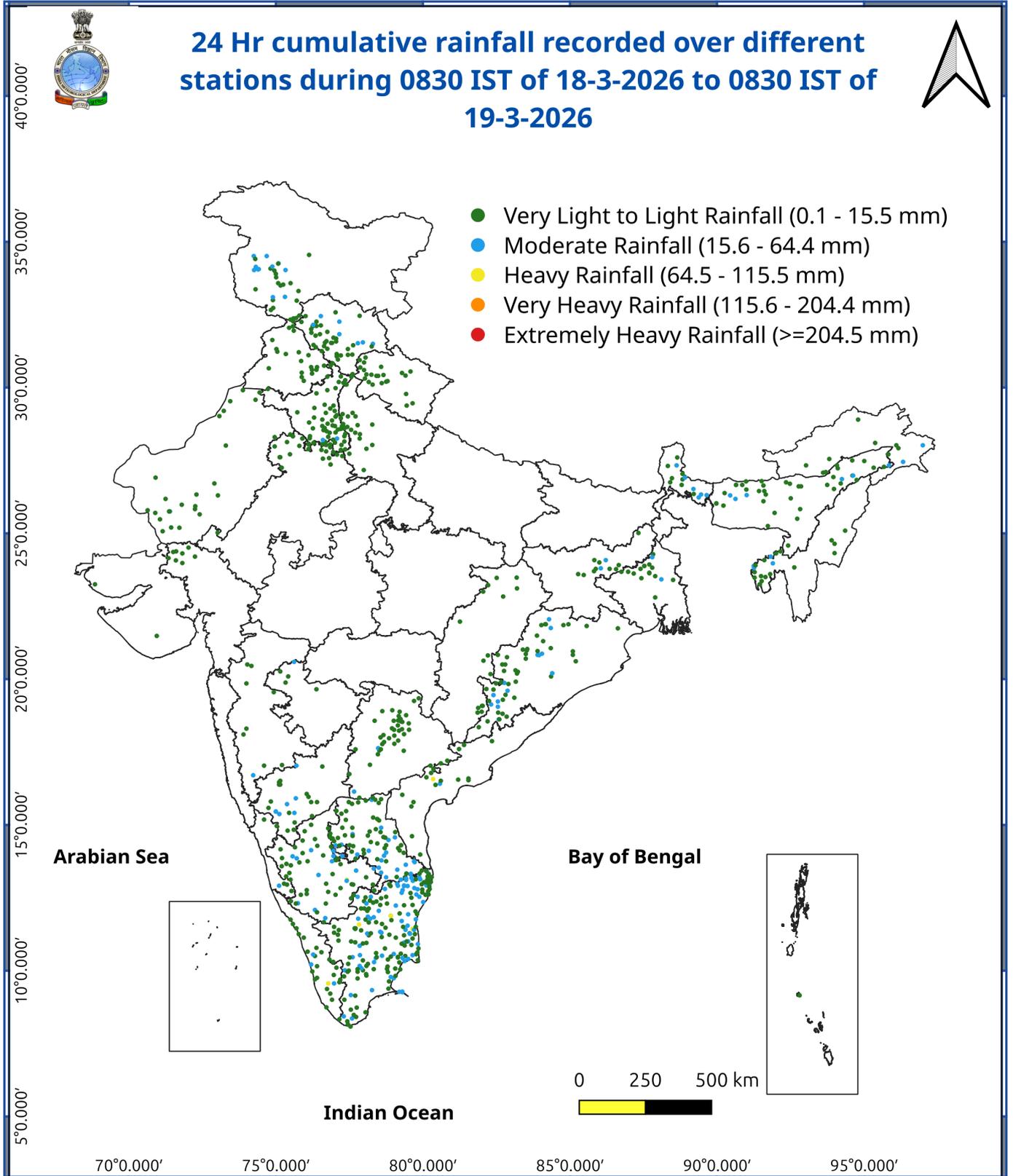
Fig. 3: Minimum Temperatures Dated 2026-03-19

Fig. 4: Departure of Minimum Temp. Dated 2026-03-19



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Impact and Actions

Impact & Action Suggested due to heavy/very heavy rainfall:

- Isolated heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh on 19th, Himachal Pradesh and Uttarakhand on 20th March.
- Isolated heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim during 20th -21st with isolated very heavy falls over Sub-Himalayan West Bengal & Sikkim on 20th March.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

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

- Isolated **Hailstorm** activity likely over Uttarakhand, Punjab, Haryana, Chandigarh and West Uttar Pradesh on 20th; East Uttar Pradesh on 20th; Madhya Pradesh & Jharkhand on 20th; Sub-Himalayan West Bengal & Sikkim and Gangetic West Bengal & Odisha during 20th -21st March.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** very likely at isolated places over Jharkhand on 20th; Gangetic West Bengal on 20th & 21st March.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Uttarakhand on 20th; Sub-Himalayan West Bengal & Sikkim on 20th & 21st March.

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

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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/ Snowfall

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Jharkhand, Madhya Maharashtra, Marathwada, Gujarat, North Interior Karnataka, South Interior Karnataka and Rayalaseema.
- Shake the fruit bearing trees to remove snow from the branches in Jammu & Kashmir, Himachal Pradesh and Uttarakhand.

Agromet advisories for likely impact of Heavy Rainfall

- In **Jammu & Kashmir**, provide proper drainage channels to avoid water stagnation in standing crops.
- In **Himachal Pradesh**, undertake harvesting of matured vegetables at the earliest.
- In **Uttarakhand**, undertake harvesting of matured rapeseed, mustard & vegetable pea at the earliest and keep the harvested produce in safe place. Make necessary arrangements to drain out excess water.
- In **Sub Himalayan West Bengal**, drain out excess water from standing crop fields. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets. maintain proper drainage channels in the crop fields.
- In **Tamil Nadu**, drain out excess water from standing crop fields and vegetables.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry

- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.
- Provide clean, hygienic and plenty of drinking water to animals.

Legends & abbreviations:

- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.

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- **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, 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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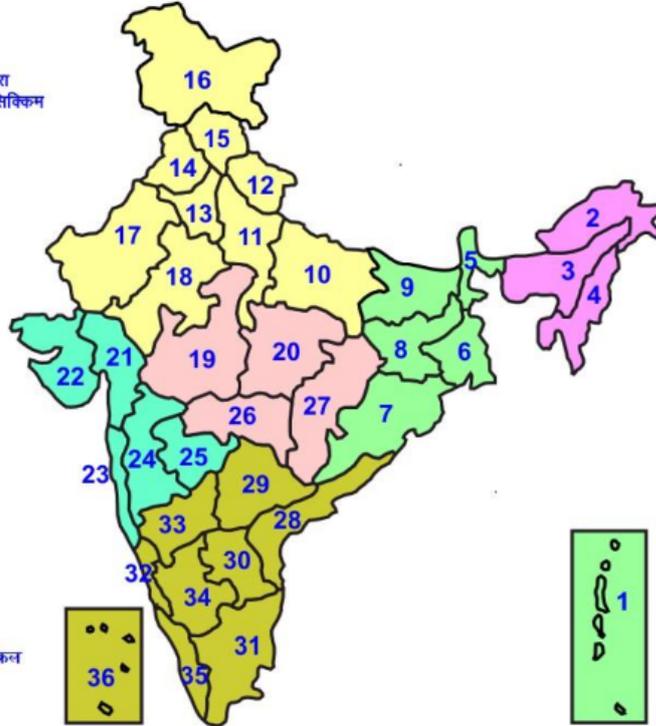
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LEGENDS

- 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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