

2026-03-27

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

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

**WEATHER FORECAST AND WARNING:**

**Northwest India:**

- **Isolated to scattered** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (30-50 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 28<sup>th</sup>, Himachal Pradesh on 28<sup>th</sup>; Uttarakhand on 27<sup>th</sup> March.
- **Isolated** light to moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-40 kmph) likely over East Uttar Pradesh on 27<sup>th</sup>; Punjab, Rajasthan on 28<sup>th</sup> with lightning over West Uttar Pradesh and East Rajasthan and West Rajasthan 27<sup>th</sup> March.
- Another fresh wet spell with **fairly widespread to widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) likely over Jammu-Kashmir on 29<sup>th</sup> & 30<sup>th</sup>; Himachal Pradesh on 29<sup>th</sup>; Uttarakhand during 29<sup>th</sup> -31<sup>st</sup> March with **isolated to scattered** light to moderate rainfall with isolated thunderstorm, lightning & gusty winds speed reaching (30-50 kmph reaching 60 kmph) likely over Punjab and Haryana Chandigarh & Delhi on 29<sup>th</sup> & 30<sup>th</sup>; over West Uttar Pradesh during 29<sup>th</sup> -31<sup>st</sup> and Rajasthan on 29<sup>th</sup> & 30<sup>th</sup> March.

**Northeast India:**

- **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds speed reaching (30-50 kmph)** likely over Arunachal Pradesh on 28<sup>th</sup> & 29<sup>th</sup>; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 28<sup>th</sup>-30<sup>th</sup> with **lightning** over Arunachal Pradesh on 30<sup>th</sup>; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 27<sup>th</sup> March.
- **Isolated hailstorm activity with Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Assam & Meghalaya on 27<sup>th</sup> March.
- **Isolated heavy rainfall** likely over Assam & Meghalaya during 27<sup>th</sup> – 29<sup>th</sup>; Arunachal Pradesh on 28<sup>th</sup>, 29<sup>th</sup> March & 01<sup>st</sup> April and Nagaland, Manipur, Mizoram & Tripura on 29<sup>th</sup> March.

**East India:**

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over West Bengal & Sikkim, Bihar during 27<sup>th</sup>-29<sup>th</sup>; Jharkhand on 27<sup>th</sup>, 28<sup>th</sup> and 31<sup>st</sup> & Odisha during next 7 days with lightning over Jharkhand on 30<sup>th</sup> March.
- **Hailstorm** at isolated places likely over Bihar and Sub-Himalayan West Bengal & Sikkim on 27<sup>th</sup>-28<sup>th</sup>; Gangetic West Bengal and Jharkhand on 27<sup>th</sup> March.
- Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 27<sup>th</sup> & 28<sup>th</sup> March.

**Central India:**

- **Isolated** light rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Pradesh on 27<sup>th</sup> and 29<sup>th</sup>-31<sup>st</sup> March; Chhattisgarh during next 7 days; Vidarbha during next 5 days.

**West India:**

- **Isolated** light rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Maharashtra and Marathwada on 30<sup>th</sup> & 31<sup>st</sup>; Saurashtra & Kutch and Gujarat Region on 29<sup>th</sup> & 30<sup>th</sup> March.

**South Peninsular India:**

- **Isolated** light rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over

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Tamil Nadu, Puducherry & Karaikal on 28<sup>th</sup> & 29<sup>th</sup>; Coastal Andhra Pradesh & Yanam and Interior Karnataka and Telangana, Rayalaseema during 27<sup>th</sup> -30<sup>th</sup>; with **lightning** over Coastal Karnataka during 27<sup>th</sup>-30<sup>th</sup>; Kerala & Mahe on 30<sup>th</sup> March.

**Hot & Humid weather Warnings:**

- **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala & Mahe on 27<sup>th</sup> March.

**Forecast of maximum/day temperatures:**

- Gradual rise in maximum temperatures by 2°C likely over Northwest India during next 24 hours; gradual fall by 2-4°C for next 48 hours; gradual rise by 2-4°C for next 48 hours and gradual fall by 3-5 °C for next 2 days thereafter.
- No significant change in maximum temperatures likely over Central India during next 5 days and gradual fall by 2-3°C during subsequent 2 days.
- Gradual rise in maximum temperatures by 2-3°C likely over East India during next 2 days; gradual fall by 2-3°C during subsequent 2 days and gradual rise by 2-3 °C thereafter.
- No significant change in maximum temperatures likely over Maharashtra State during next 4 days and gradual fall by 2-3°C during subsequent 3 days and no significant change in maximum temperatures likely over Gujrat State during next 24 hours and gradual fall by 2-3°C thereafter.
- No significant change in maximum temperatures likely over South Peninsula except Kerala India during next 2 days and gradual fall by 2-3°C during subsequent 5 days. In Kerala, no significant change in maximum temperatures likely during next 2 days and fall by 2-3°C for next 3 days and rise by 2-3°C thereafter.
- No significant change in maximum temperatures likely over rest parts of the country.

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**Main Weather Observations:**

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at isolated places** over Gangetic West Bengal, Haryana Chandigarh & Delhi, Arunachal Pradesh, West Rajasthan, Jammu & Kashmir and Ladakh, West Uttar Pradesh, Odisha, Vidarbha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam 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): **Gangetic West Bengal:** Kolkata (dum Dum) AP (dist North 24 Parganas) 3; **Odisha:** Bhubaneshwar (dist Khordha) 2; **Assam & Meghalaya:** Dibrugarh (dist Dibrugarh) 1.

❖ **Minimum Temperature Departures (as on 26-03-2026):** **markedly above normal(> 5.1°C)** at few places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Punjab, Himachal Pradesh, East Rajasthan, Konkan & Goa and Madhya Maharashtra. **appreciably above normal(3.1°C to 5.0°C)** at few places over Himachal Pradesh, West Rajasthan and East Rajasthan; at isolated places over Andaman & Nicobar Islands, Odisha, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad and Madhya Maharashtra. **above normal(1.6°C to 3.0°C)** at many places over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab and Madhya Maharashtra; at most places over Gujarat Region; at few places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, Bihar, West Rajasthan, West Madhya Pradesh, Konkan & Goa, Marathwada, Vidarbha, Chhattisgarh and Kerala & Mahe; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha, East Uttar Pradesh, Uttarakhand, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, East Uttar Pradesh, Saurashtra & Kutch, Vidarbha, Chhattisgarh, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; at most places over Arunachal Pradesh, Assam & Meghalaya, Uttarakhand, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Lakshadweep; at few places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Odisha, Bihar, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Konkan & Goa, Marathwada, North Interior Karnataka and South Interior Karnataka; at isolated places over Haryana-Chandigarh-Delhi, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Gujarat Region and Madhya Maharashtra. **The lowest minimum temperature of 14.0°C was reported at AYODHYA-OBS (UTTAR PRADESH) over the Plains of India.**

❖ **Maximum Temperature Departures (as on 26-03-2026):** **markedly above normal(> 5.1°C)** at isolated places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad. **appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh, Haryana-Chandigarh-Delhi, Punjab and Coastal Karnataka; at isolated places over Assam & Meghalaya, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, East Rajasthan, West Madhya Pradesh, Konkan & Goa and Kerala & Mahe. **above normal(1.6°C to 3.0°C)** at many places over Uttarakhand; at few places over East Madhya Pradesh, Saurashtra & Kutch and Vidarbha; at isolated places over Gangetic West Bengal, Odisha, Jharkhand, West Rajasthan, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **near normal(-1.5°C to 1.5°C)** at many places over Andaman & Nicobar Islands and Bihar; at most places over Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Telangana, Rayalaseema, North Interior Karnataka, South Interior Karnataka and Lakshadweep; at isolated places over Sub Himalayan West Bengal & Sikkim. **The highest maximum temperature of 41.8°C was reported at AKOLA (MAHARASHTRA).**

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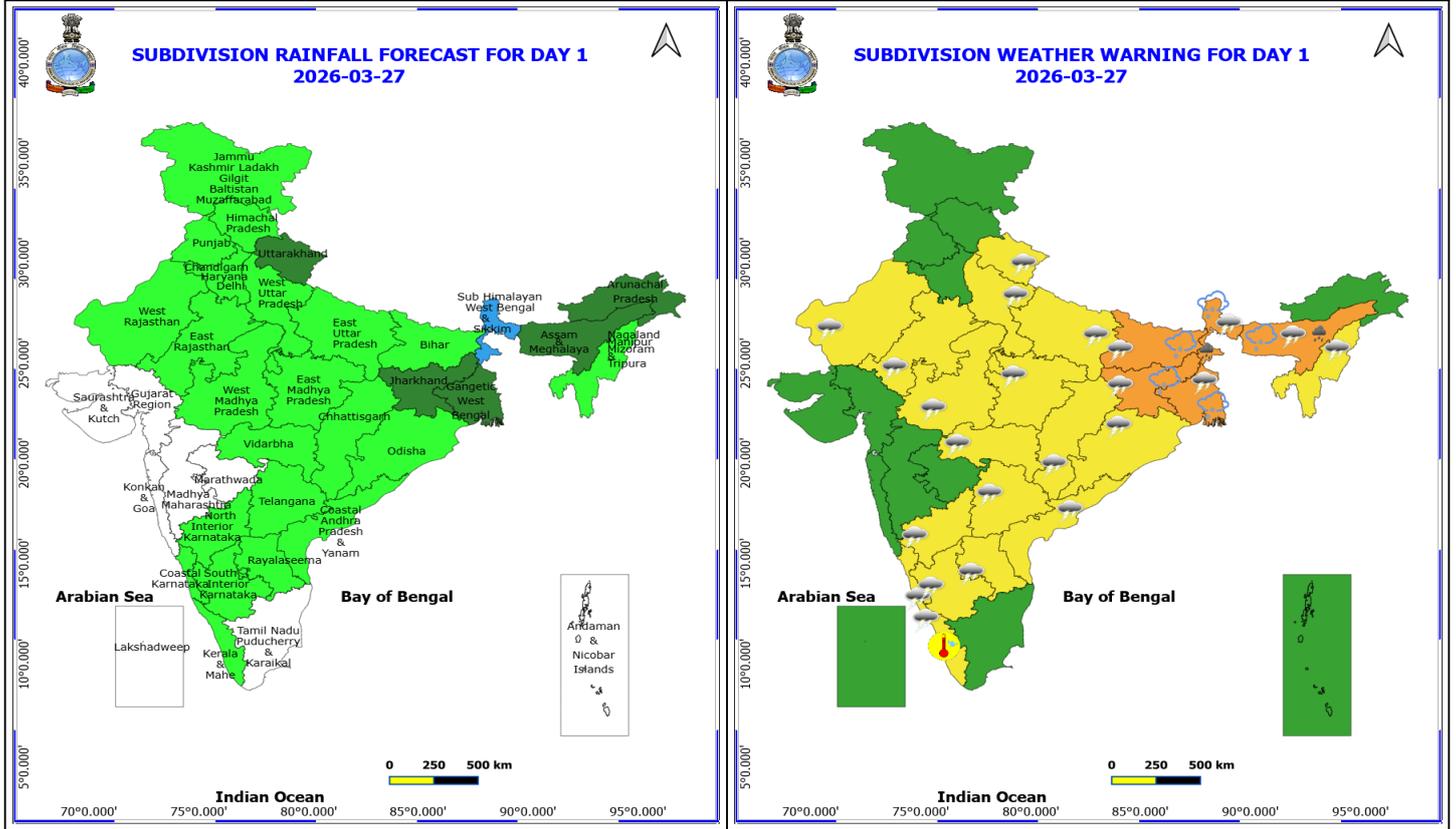
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### Meteorological Analysis (Based on 0530 hours IST)

- The **Western Disturbance** now seen as an **upper air cyclonic circulation** over Jammu & neighbourhood between 3.1 & 5.8 km above mean sea level.
- The **upper air cyclonic circulation** over West Rajasthan adjoining central Pakistan at 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood persists and now seen at 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over northeast Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over south Gangetic West Bengal adjoining north Odisha now lies over Odisha & neighbourhood at 0.9 km above mean sea level.
- The **trough** from Marathwada to South Interior Karnataka across North interior Karnataka at 0.9 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 100 knots at 12.6 km above mean sea level prevails over east India.
- Another **Western Disturbance** likely to affect northwest India from night of 28<sup>th</sup> March 2026.
- The **upper air cyclonic circulation** over southeast Rajasthan & neighbourhood extending upto 1.5 km above mean sea level has become less marked.

### Weather Outlook for subsequent 3 days

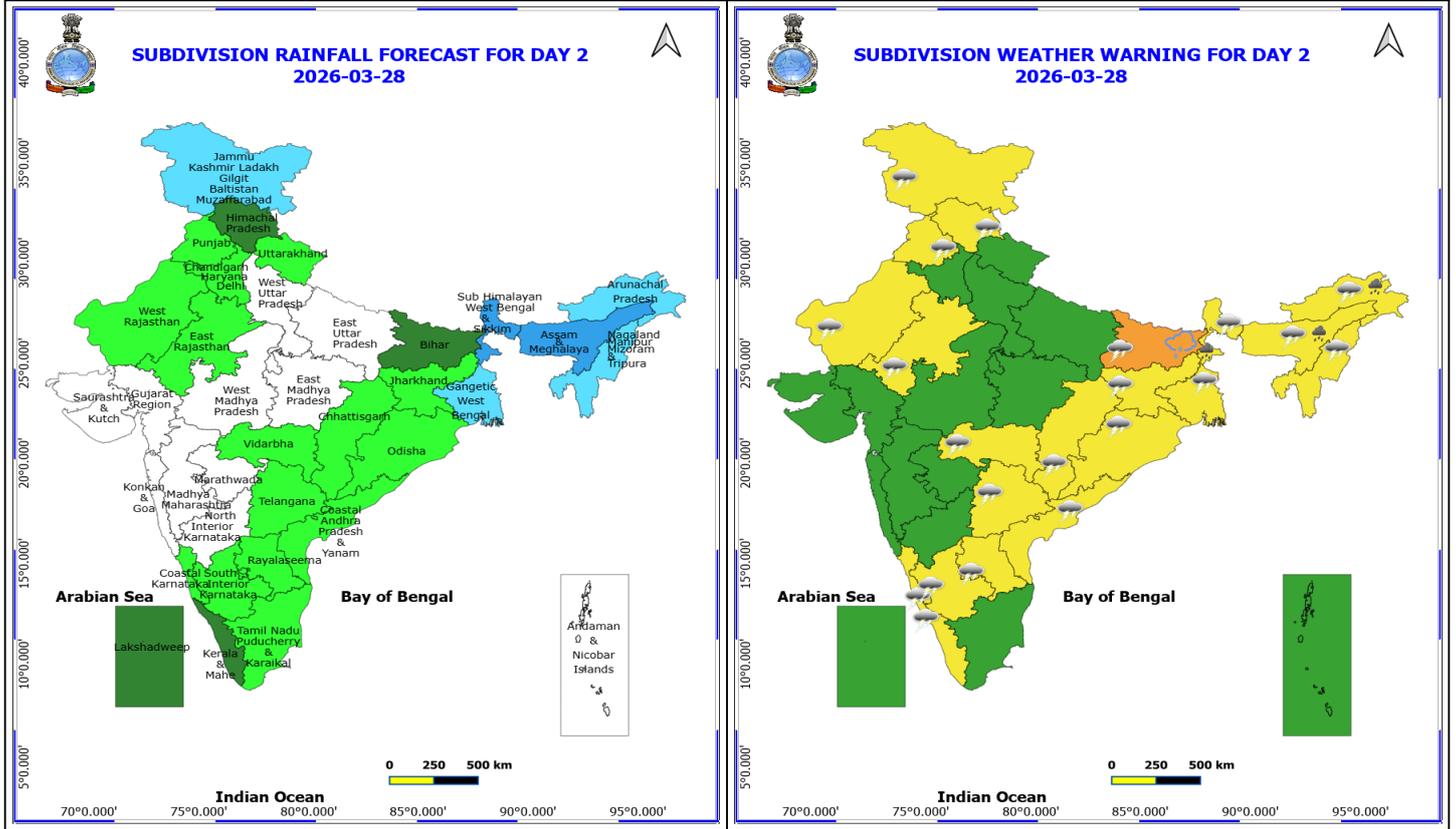
- Widespread rainfall activity likely over Northeast India and Isolated to Scattered rainfall activity over remaining parts of the country except Gujarat, Maharashtra and South Rajasthan.



**27 March (Day 1)**

- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Assam & Meghalaya, Bihar, Jharkhand and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Assam & Meghalaya and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Jharkhand, Odisha, Telangana and Uttarakhnad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Chhattisgarh, East Rajasthan, East Uttar Pradesh, Interior Karnataka, Madhya Pradesh and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, West Rajasthan and West Uttar Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Kerala & Mahe.

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## 28 March (Day 2)

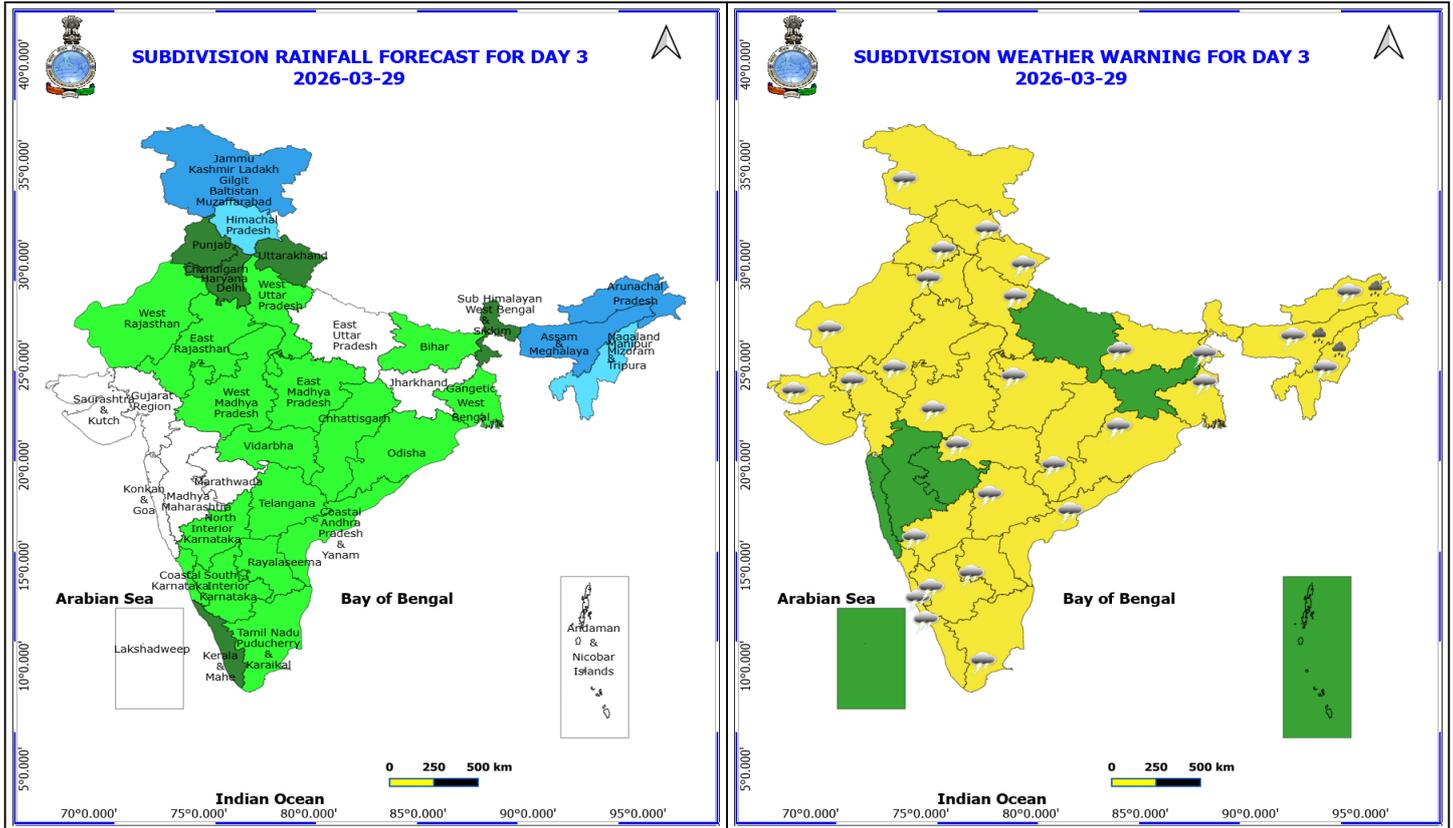
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Chhattisgarh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Telangana and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Himachal Pradesh, Jharkhand, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Rajasthan, South Interior Karnataka and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Karnataka.
- ❖ **Squally wind with speed 45 to 55 kmph gusting to 65 kmph** is likely to prevail over along and off the Oman coasts adjoining Gulf of Oman & northwest Arabian Sea.

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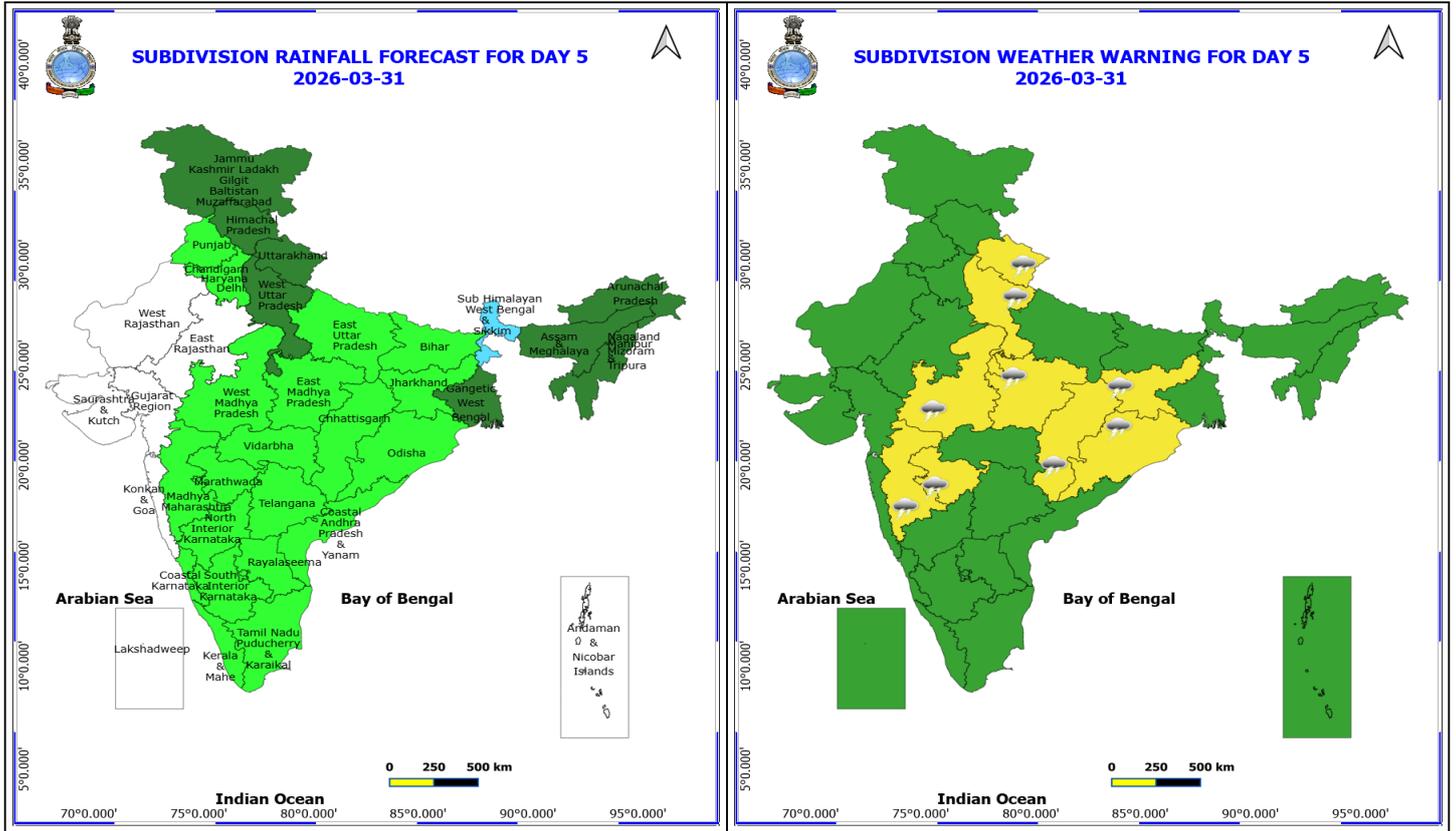
**29 March (Day 3)**

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Chhattisgarh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Telangana and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Gujarat State, Interior Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha, Rajasthan, Vidarbha, West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally wind with speed 45 to 55 kmph gusting to 65 kmph** is likely to prevail over along and off the Oman coast adjoining Gulf of Oman & northwest Arabian Sea.

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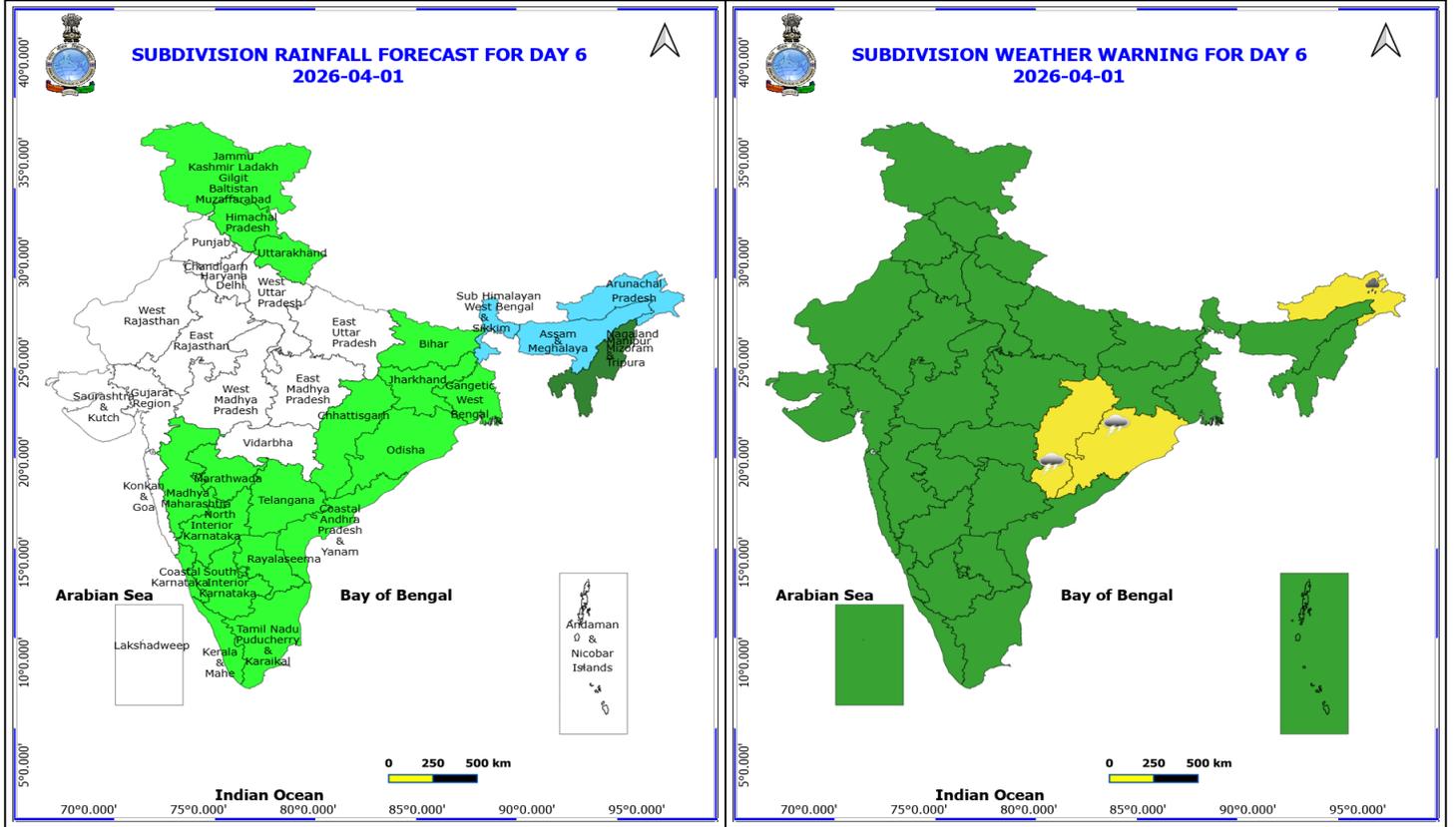




**31 March (Day 5)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Madhya Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jharkhand, Madhya Maharashtra, Marathwada, Odisha and West Uttar Pradesh.

**No Fishermen Warning**



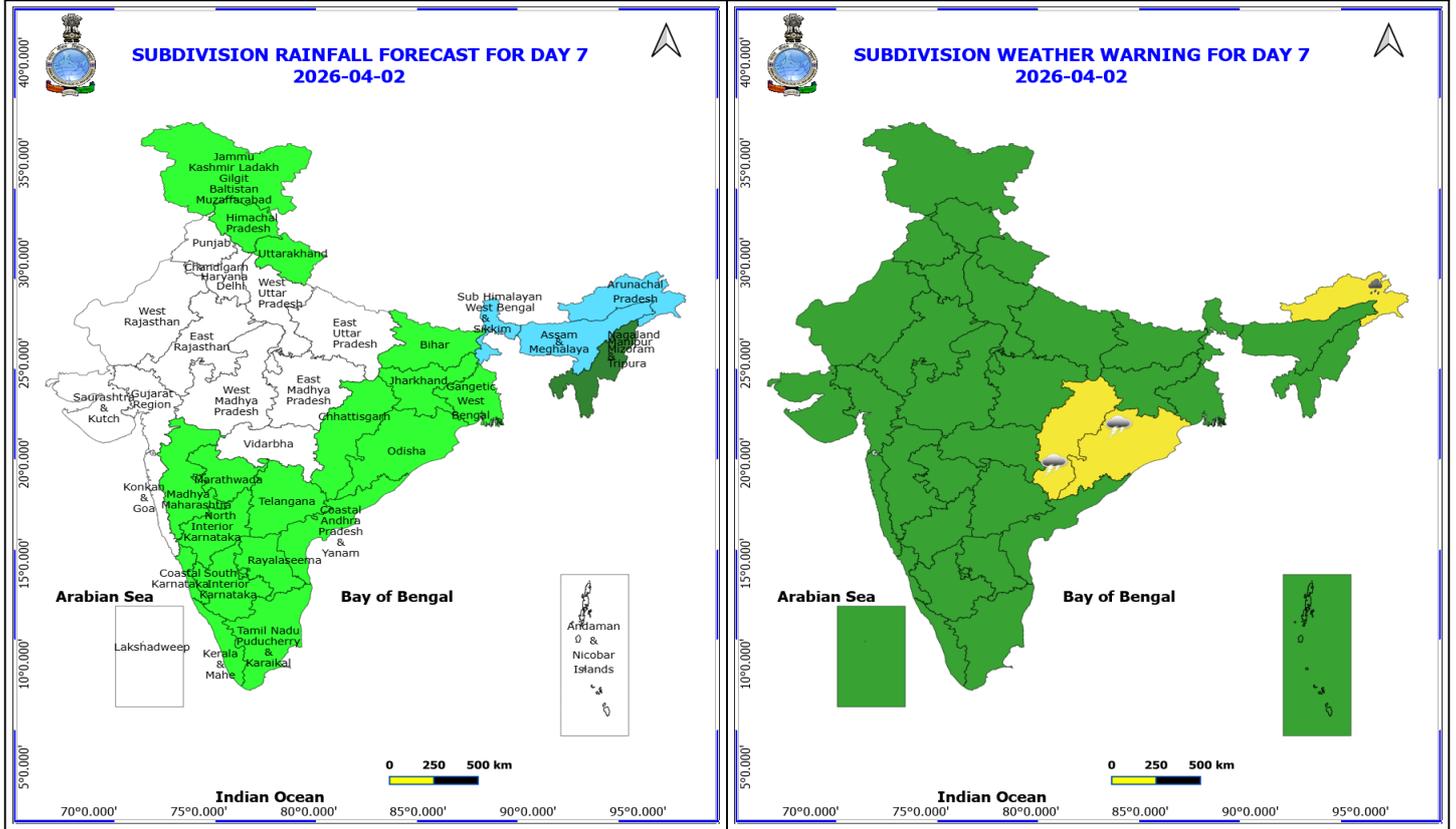
**1 April (Day 6)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Odisha.

**No Fishermen Warning**

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**2 April (Day 7)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Odisha.

**No Fishermen Warning**



## Table-1

### 7 Days Rainfall Forecast

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

Fig. 2: Departure of Maximum Temp. Dated 2026-03-26

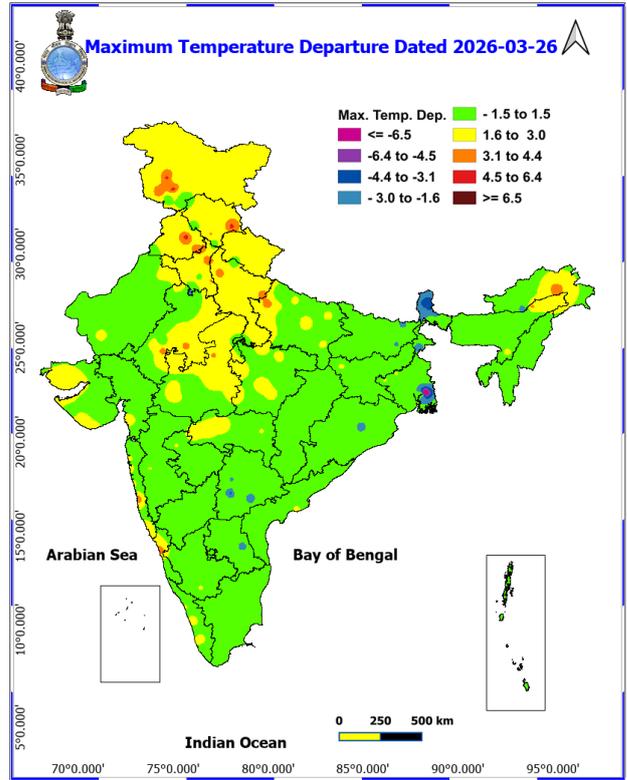
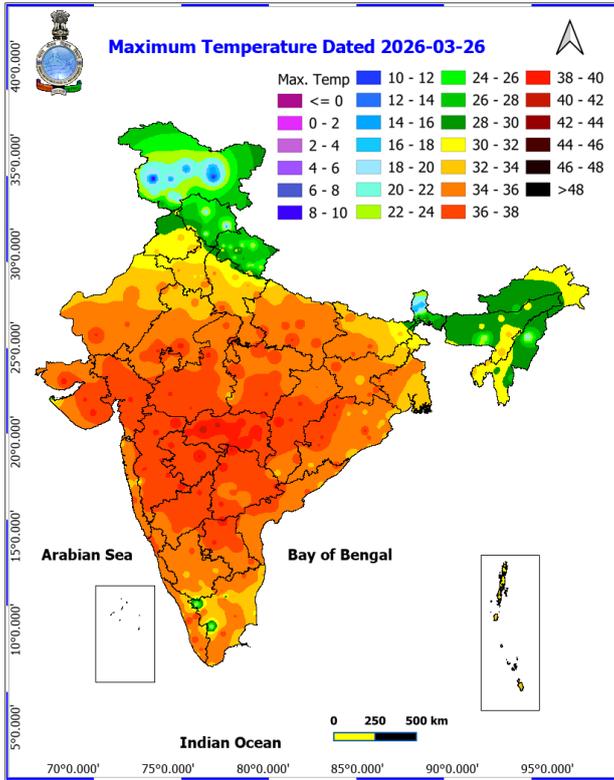
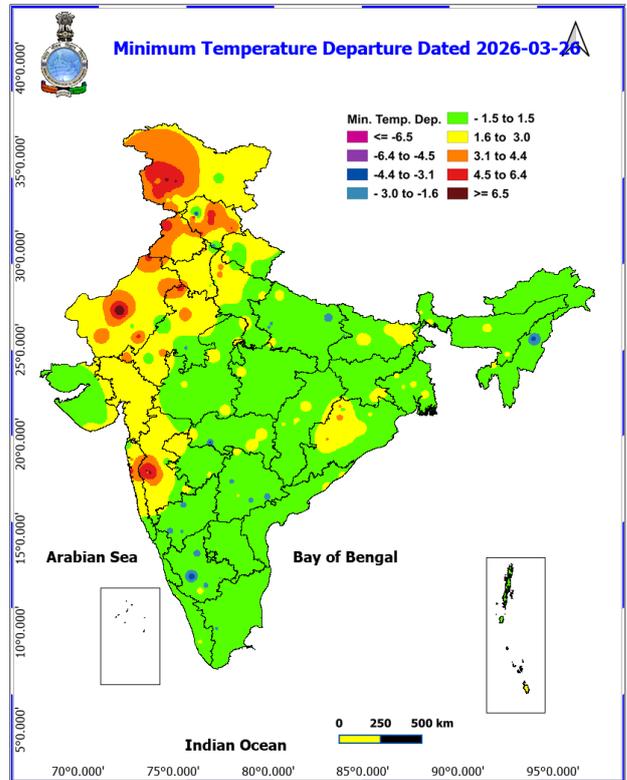
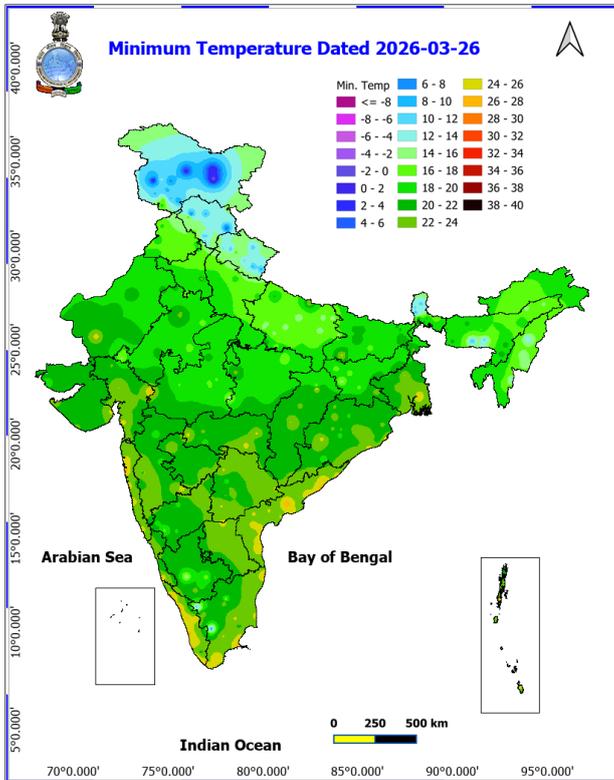
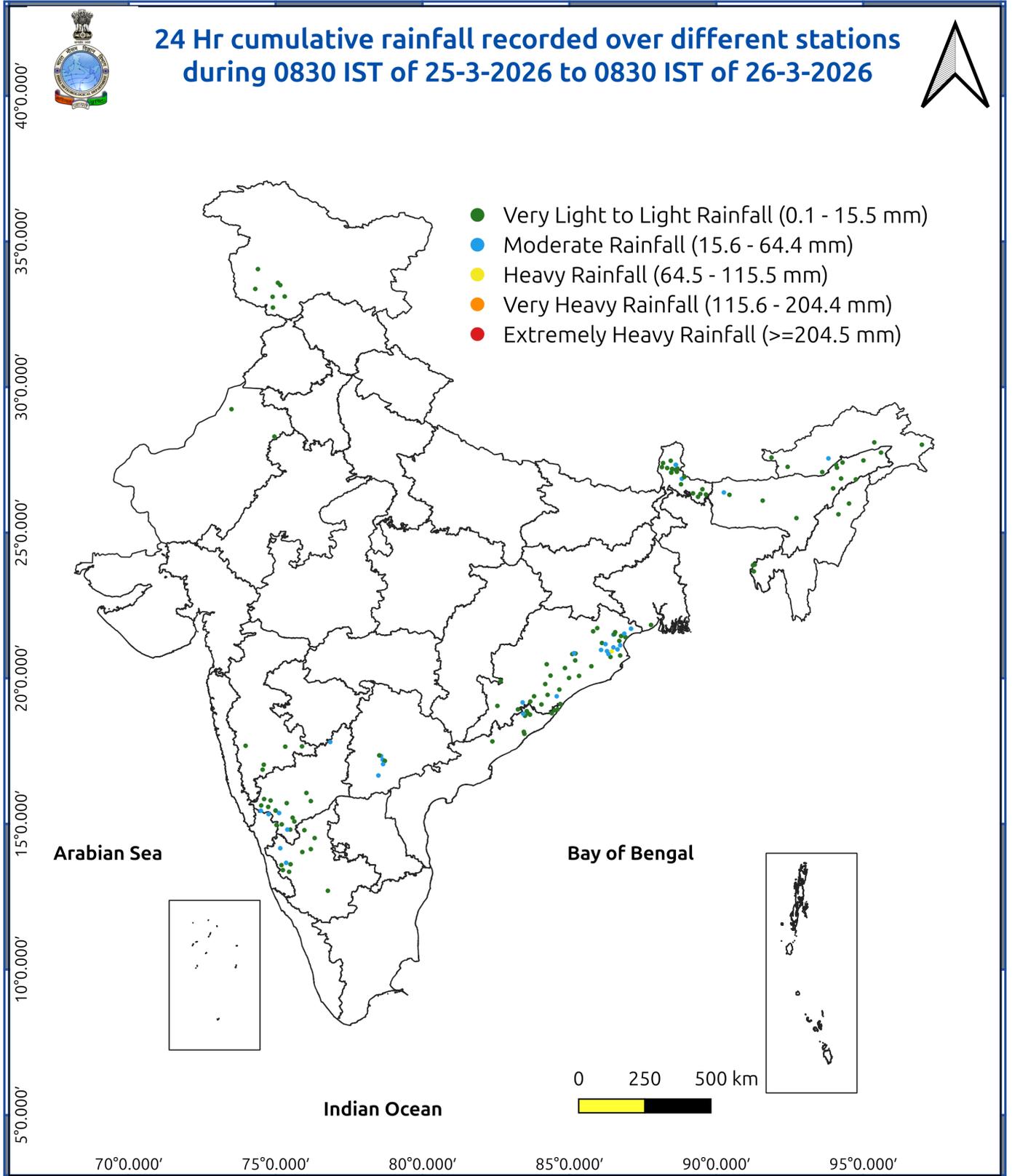


Fig. 3: Minimum Temperatures Dated 2026-03-26

Fig. 4: Departure of Minimum Temp. Dated 2026-03-26





## Impact and Actions

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

- **Isolated heavy rainfall** likely over Assam & Meghalaya during 27<sup>th</sup> – 29<sup>th</sup>; Arunachal Pradesh on 28<sup>th</sup>, 29<sup>th</sup> March & 01<sup>st</sup> April and Nagaland, Manipur, Mizoram & Tripura on 29<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 27<sup>th</sup> & 28<sup>th</sup> 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 expected and action suggested due to

- **Isolated hailstorm activity with Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Assam & Meghalaya on 27<sup>th</sup> March.
- **Hailstorm** at isolated places likely over Bihar and Sub-Himalayan West Bengal & Sikkim on 27<sup>th</sup>-28<sup>th</sup>; Gangetic West Bengal and Jharkhand on 27<sup>th</sup> 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 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.

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- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

### Agromet advisories for various parts of the country

#### Agromet advisories for likely impact of Hailstorms

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in North **Interior Karnataka, Telangana, Assam & Meghalaya, West Bengal, Bihar and Jharkhand.**
- Undertake harvesting of mature crops immediately and shift them to safer places.

#### Agromet advisories for likely impact of Heavy Rainfall

- In **Sub Himalayan West Bengal**, ensure proper drainage channel, and drain out excess water from fields of rice, maize, other standing crops, vegetables and orchard. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets.
- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties and digging of potatoes. Shift the harvested produce to safe places. Maintain proper drainage channels in the fields of rice, maize, other standing crops, vegetables and orchards.
- In **Assam**, drain out excess rainwater from the standing crop fields.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Keep the harvested pods of garden peas in safer place immediately.

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#### 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.

#### Agromet advisories for likely impact of Hot and Humid Weather

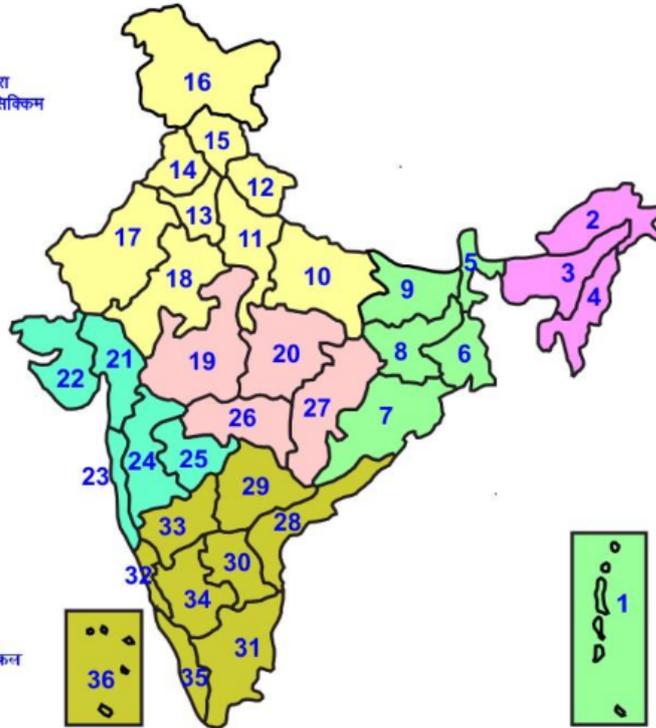
In Konkan Region of **Maharashtra**, provide 100 litre water/tree at weekly or 150 to 200 litre water/ tree at 15 days interval to minimize pre-mature fruit drop and sun scorching in mango and poor fruit set and reduced nut size in cashew orchards. Use straw mulch to prevent moisture loss from the soil. Undertake pre-harvest bagging of fruits with newspaper bags to protect the mango fruits from sunscald

#### 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.

## 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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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