

2026-03-14

Time of Issue: 08:21:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Northwest India:

- **Isolated light rainfall/snowfall** likely over Western Himalayan region till 14<sup>th</sup> March. Rainfall is likely to increase to **scattered to fairly widespread over the region during 15<sup>th</sup>-19<sup>th</sup> March. Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 15<sup>th</sup> & 16<sup>th</sup> and Uttarakhand on 14<sup>th</sup> March.
- **Isolated light rainfall with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** also likely over Punjab, Haryana Chandigarh during 15<sup>th</sup>-19<sup>th</sup>; Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; Rajasthan on 14<sup>th</sup> March.
- **Thundersquall** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely at isolated places over Uttarakhand on 15<sup>th</sup> & 16<sup>th</sup> March.
- Isolated **hailstorm** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 15<sup>th</sup>; Uttarakhand, Punjab, Haryana, Chandigarh & East Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; West Uttar Pradesh on 16<sup>th</sup> March.

#### Northeast India:

- **Fairly widespread to widespread light/moderate rainfall with thunderstorm & lightning** likely over Northeast India during 14<sup>th</sup>-19<sup>th</sup> March; with **gusty winds speed reaching (30-50 kmph)** over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 14<sup>th</sup> & 15<sup>th</sup> March.
- Isolated **heavyrainfall/snowfall** very likely over Arunachal Pradesh during 14<sup>th</sup>-16<sup>th</sup> March.
- Isolated **heavyrainfall** very likely over Assam & Meghalaya on 14<sup>th</sup> & 15<sup>th</sup> March.

#### East & Central India:

- **Isolated to Scattered light/moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over West Madhya Pradesh on 15<sup>th</sup>; East Madhya Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; Vidarbha during 14<sup>th</sup>-17<sup>th</sup>; Odisha, Chhattisgarh & Jharkhand during 15<sup>th</sup>-17<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 14<sup>th</sup>-19<sup>th</sup>; Gangetic West Bengal during 15<sup>th</sup>-17<sup>th</sup> & on 19<sup>th</sup>; Bihar during 15<sup>th</sup>-18<sup>th</sup> March.
- Isolated **heavyrainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 16<sup>th</sup> March.

#### South Peninsular India:

- **Isolated light/moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Telangana during 15<sup>th</sup>-17<sup>th</sup>; with **thunderstorm & lightning** over Kerala & Mahe on 16<sup>th</sup> & 17<sup>th</sup>; Tamil Nadu and South Interior Karnataka on 17<sup>th</sup>; Coastal Andhra Pradesh & Yanam during 16<sup>th</sup>-19<sup>th</sup>; Rayalaseema during 17<sup>th</sup>-19<sup>th</sup> March.

#### West India:

- **Isolated light/moderate rainfall with thunderstorm & lightning** likely over Marathwada during 14<sup>th</sup>-19<sup>th</sup> and Madhya Maharashtra during 15<sup>th</sup>-17<sup>th</sup> March.

#### Forecast of maximum/day temperatures:

- Gradual rise in maximum temperature by 3-4°C likely over Western Himalayan region during next 24 hours and gradual fall by 4-6°C during subsequent 5 days.
- Gradual fall in maximum temperature by 3-5°C likely over plains of Northwest India during next 6 days except over East Uttar Pradesh where no significant change in maximum temperatures likely during next 24 hours and gradual fall by 2-4°C during subsequent 3 days and gradual rise by about 2°C thereafter.
- Gradual fall by 3-4°C in maximum temperatures likely over Central India during next 4 days and no significant change thereafter.
- Gradual rise in maximum temperature by 2-3°C likely over East India during next 24 hours; gradual fall by

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2-3°C during subsequent 2 days and no significant change thereafter .

- Gradual fall in maximum temperature by 2-4°C likely over Gujarat State during next 2 days and no significant change during subsequent 4 days.
- No significant change in maximum temperatures likely over Maharashtra during next 24 hours; gradual fall by 2-4°C during subsequent 3 days and no significant change thereafter .
- No significant change in maximum temperatures likely over South Peninsular India during next 4 days.

**Heat Wave, Hot & Humid weather and Warm Night Warnings:**

- **Heat wave conditions** in isolated pockets over Odisha on 14<sup>th</sup>; Jharkhand on 14<sup>th</sup> & 15<sup>th</sup> March.
- **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala on 14<sup>th</sup> March.
- **Heat wave to severe heat wave conditions** very likely in isolated pockets over Himachal Pradesh on 14<sup>th</sup> March.

**Main Weather Observations:**

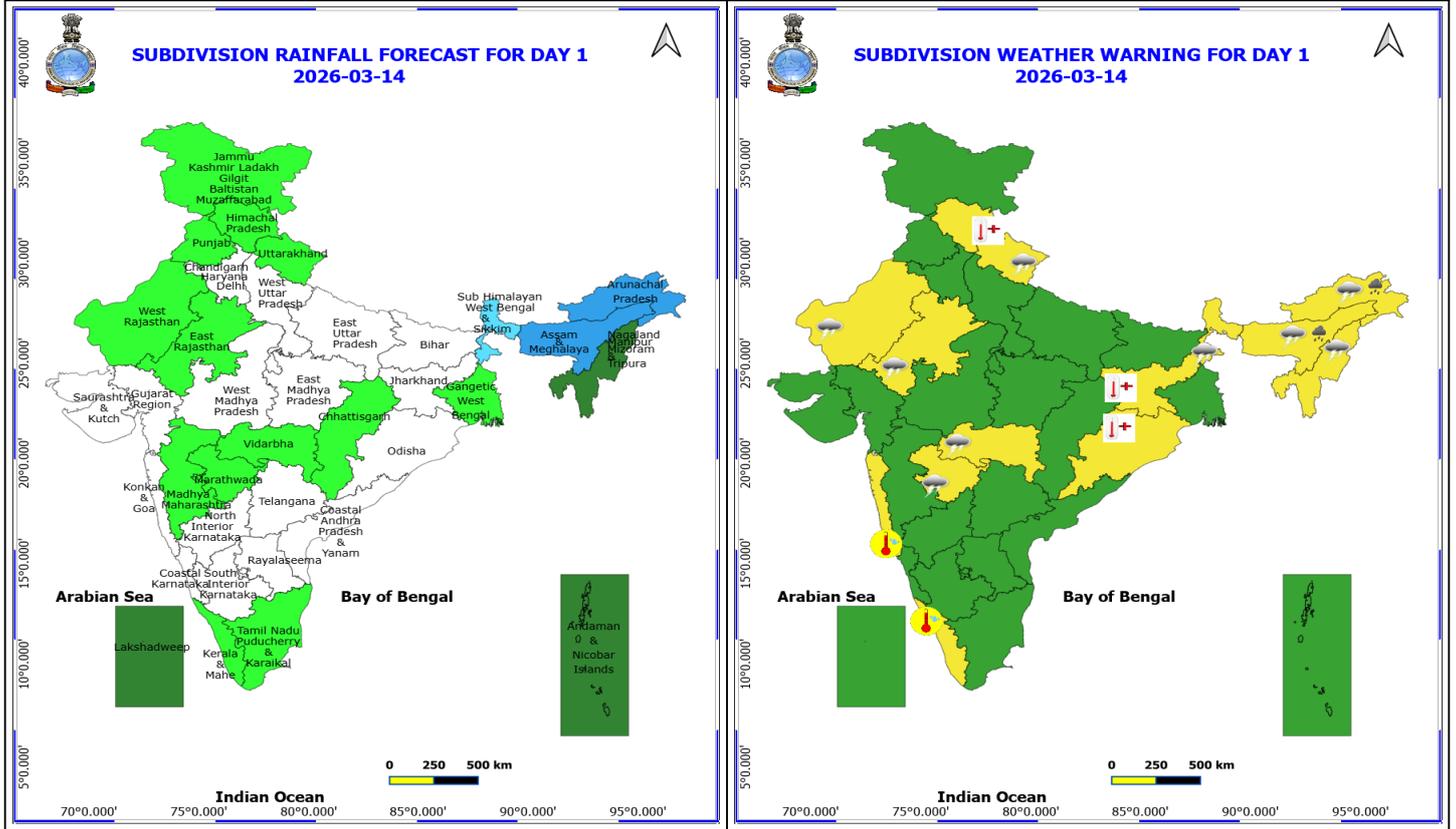
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Assam & Meghalaya:** Tezpur (dist Sonitpur), Dhubri (dist Dhubri) 4 Each, North Lakhimpur (dist Lakhimpur) 3, Dibrugarh (dist Dibrugarh), Guwahati (dist Kamrup Metropolitan) 2 Each, Shillong (dist East Khasi Hills) 1; **Nagaland, Manipur, Mizoram & Tripura:** Agartala AP (dist West Tripura) 4, Imphal (tulihal) AP (dist Imphal East) 2; **Arunachal Pradesh:** Itanagar (dist Papum Pare) 3.
- ❖ **Heat wave reported** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Yeaterday, Heat wave conditions** prevailed in some pockets of Vidarbha.
- ❖ **Minimum Temperature Departures (as on 13-03-2026):** **Minimum/night Temperature** were **markedly above normal (5.1°C or more)** over West Rajasthan, Bihar; **appreciably above normal (3.1°C to 5.0°C)** over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim; **above normal (1.6°C to 3.0°C)** over Madhya Pradesh, Odisha, Gujarat State, Maharashtra, Assam & Meghalaya, Telangana and near normal over rest parts of the country. **Today, the lowest minimum temperature of 13.6°C was observed at Rajgarh (Madhya Pradesh) over the plains of India.**
- ❖ **Maximum Temperature Departures (as on 13-03-2026):** Maximum Temperature departures were **Markedly above normal (> 5.1°C)** at few places over Madhya Pradesh and at isolated places over Jharkhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand: **Appreciably above normal (3.1°C to 5.0°C)** at most places over Gujarat state; at few places over Rajasthan, Uttar Pradesh, Punjab; at isolated places over Bihar, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** at a few places over Marathwada, North Interior Karnataka; at isolated places over Telangana, Rayalaseema, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal. These were **Markedly below normal (< -5.1°C)** at few places over Assam; **Appreciably below normal (-5.0°C to -3.1°C)** at isolated places over Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim. **Today, the highest maximum temperature of 41.8°C is reported at Amraoti (Vidarbha).**

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

- The **upper air cyclonic circulation** over Central Assam & neighbourhood now lies over Northeast Assam & neighbourhood at 1.5 km above mean sea level.
- The **trough** now runs in lower level westerlies with its axis at 5.8 km above mean sea level roughly along Long. 93°E to the north of Lat. 22°N.
- The **trough** from Jharkhand to Vidarbha now runs from central parts of north Uttar Pradesh to South Interior Odisha across Chhattisgarh at 0.9 km above mean sea level.
- A **trough** runs from Marathwada to South Interior Karnataka across North Interior Karnataka at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Gulf of Mannar & neighbourhood now lies over Comorin area & neighbourhood and extends upto 1.5 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 95 knots at 12.6 km above mean sea level prevails over Northwest India.
- A **Western Disturbance** seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 58°E to the north of Lat. 30°N.
- The **upper air cyclonic circulation** over Lakshadweep and adjoining Comorian area at 0.9 km above mean sea level has become less marked.
- The **trough** from **cyclonic circulation** over Lakshadweep and adjoining Comorian area to Marathwada across north Kerala and Interior Karnataka at 0.9 km above mean sea level has become less marked.

### Weather Outlook for subsequent 3 days

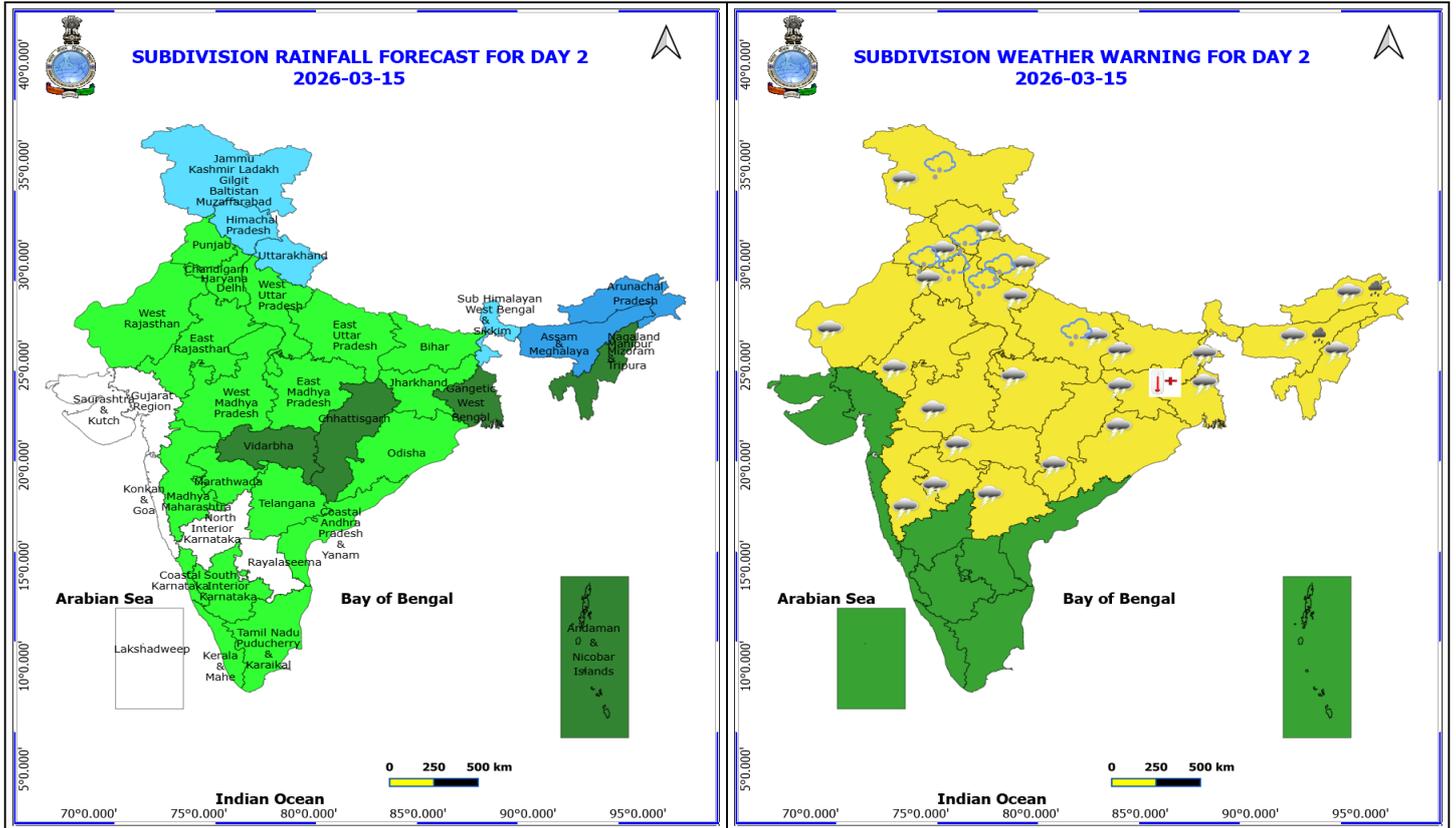
Scattered to fairly widespread rainfall activity likely over Northwest India, East India, Northeast India and eastern parts of South Peninsular India.



**14 March (Day 1)**

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Marathwada.
- ❖ **Heat Wave conditions** very likely at isolated places over Jharkhand and Odisha.
- ❖ **Heat Wave to Severe Heat Wave conditions** very likely at isolated places over Himachal Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Kerala & Mahe and Konkan & Goa.

**No Fishermen Warning**



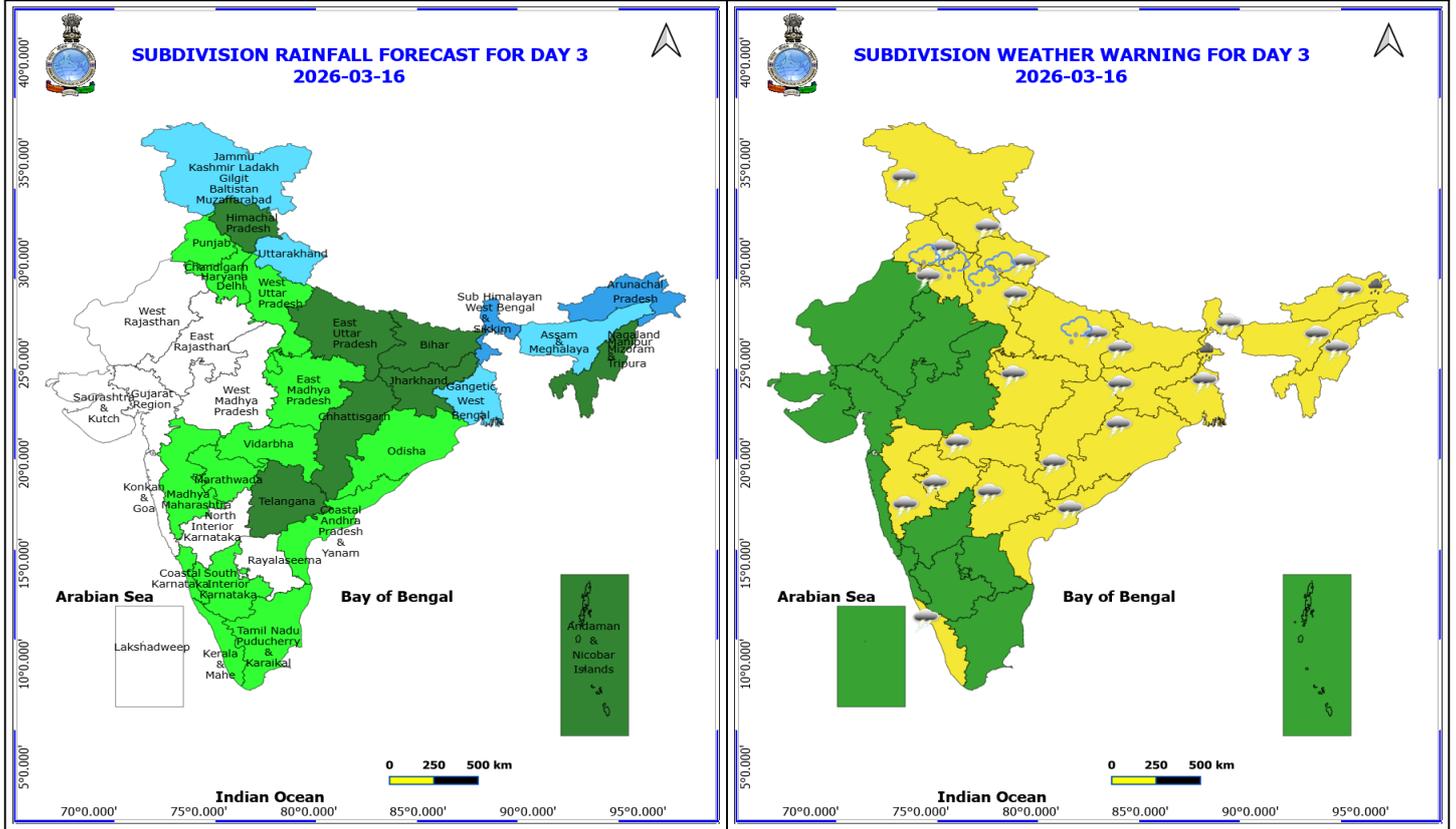
**15 March (Day 2)**

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over East Madhya Pradesh, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha, Punjab, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Telangana, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Madhya Maharashtra and Marathwada.
- ❖ **Heat Wave conditions** very likely at isolated places over Jharkhand.

**No Fishermen Warning**

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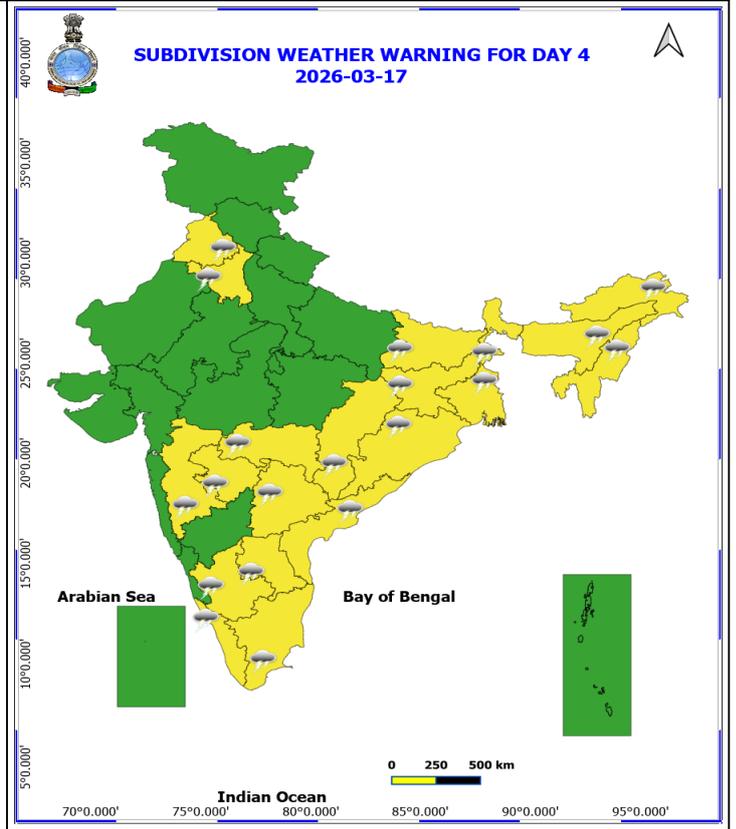
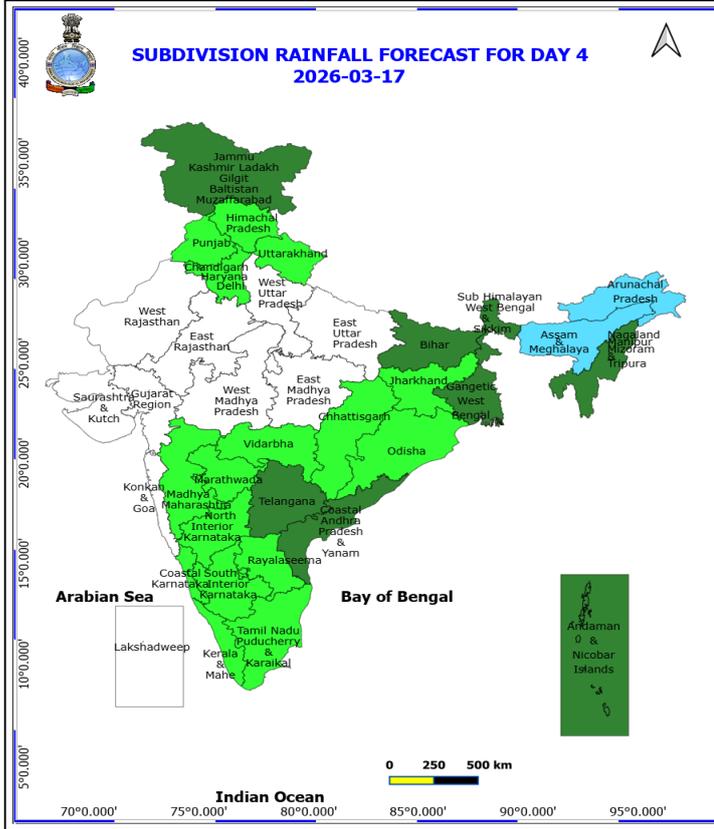
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**16 March (Day 3)**

- ❖ **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 Haryana, Chandigarh & Delhi, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Chhattisgarh, East Madhya Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha, Punjab, Uttar Pradesh, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, Kerala & Mahe, Madhya Maharashtra, Marathwada and Nagaland, Manipur, Mizoram and Tripura.

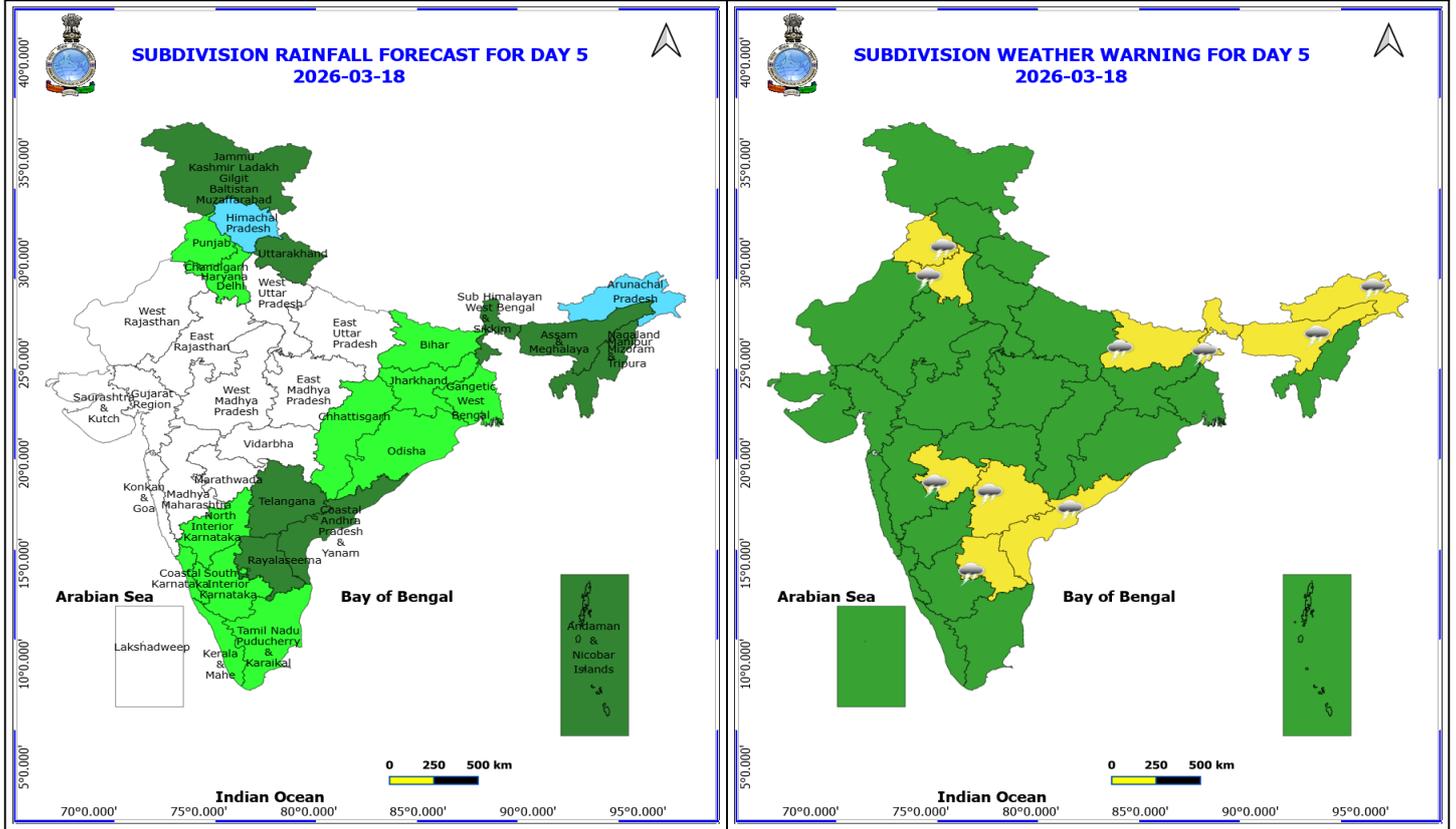
**No Fishermen Warning**



**17 March (Day 4)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar, Jharkhand and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Punjab, Telangana, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.

**No Fishermen Warning**

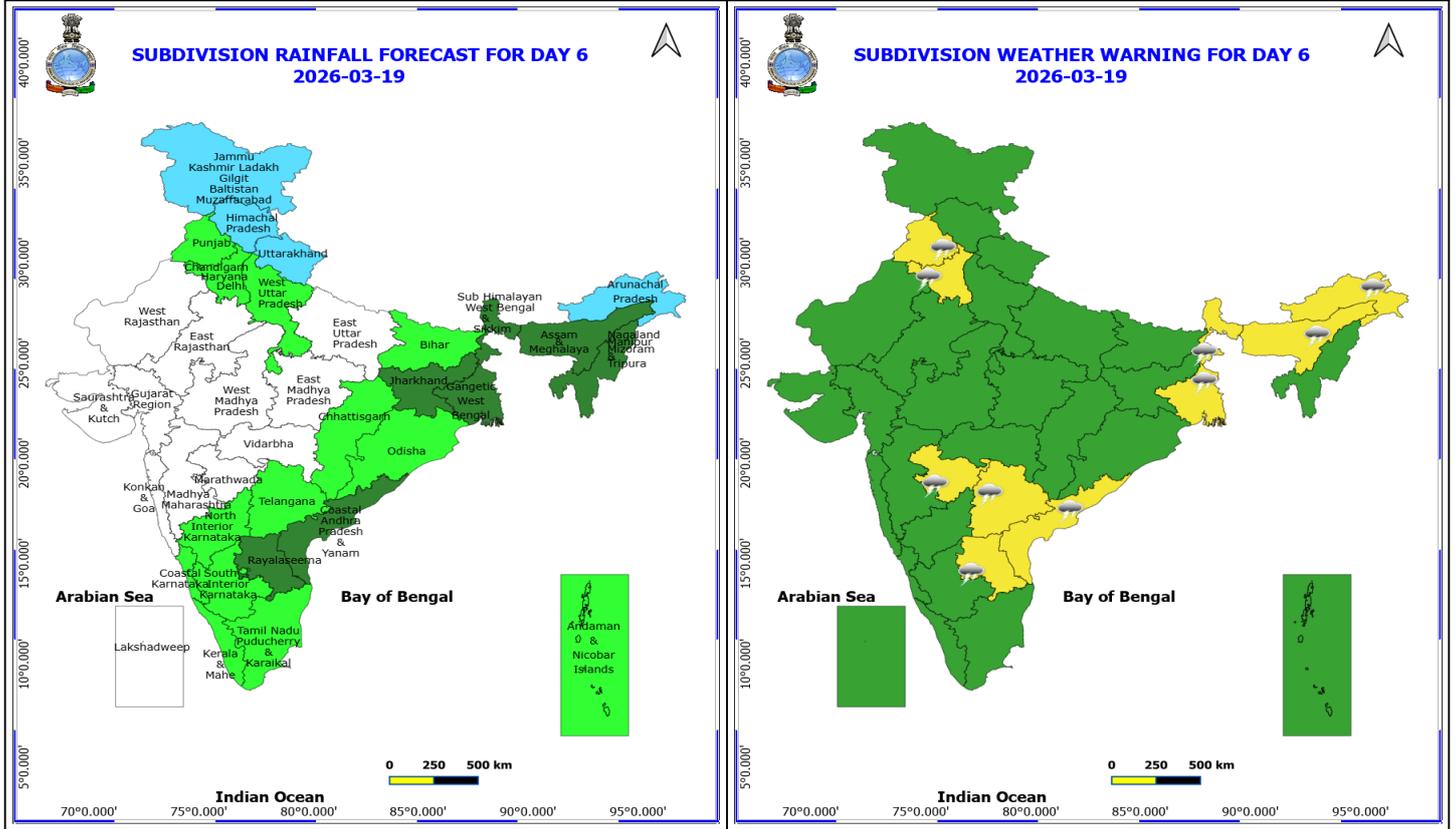


**18 March (Day 5)**

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Sub Himalayan West Bengal & Sikkim and Telangana.

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya and Marathwada.

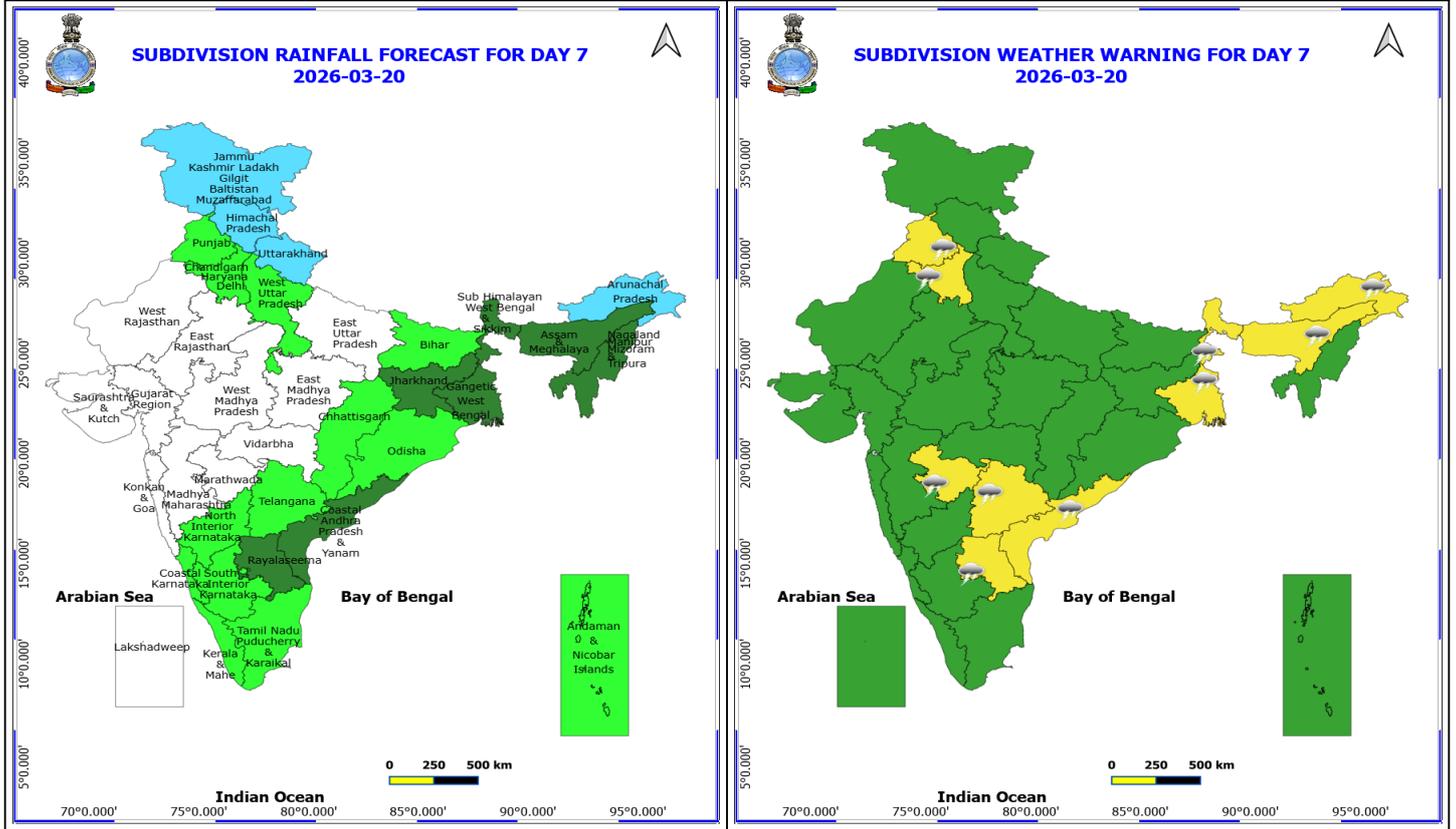
**No Fishermen Warning**



**19 March (Day 6)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Telangana and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya and Marathwada.

**No Fishermen Warning**



**20 March (Day 7)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Telangana and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya and Marathwada.

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## Table-1

### 7 Days Rainfall Forecast

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

Fig. 2: Departure of Maximum Temp. Dated 2026-03-13

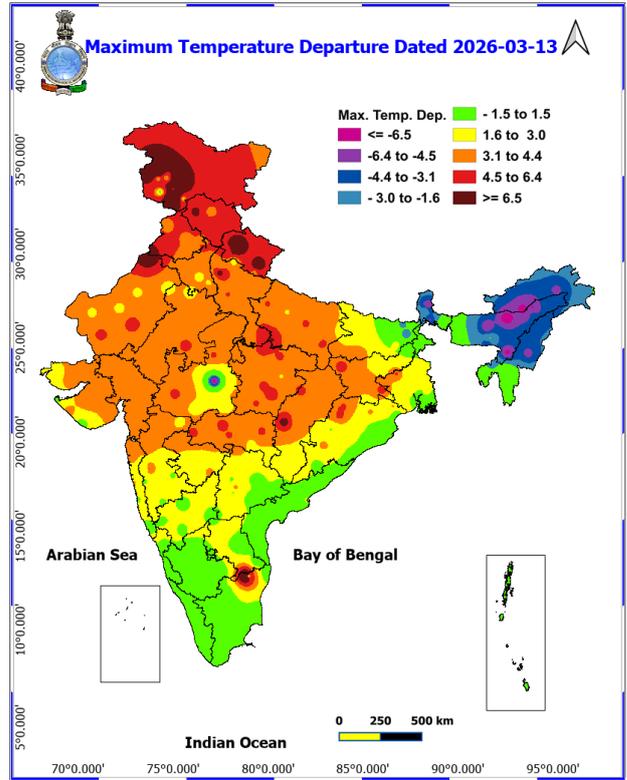
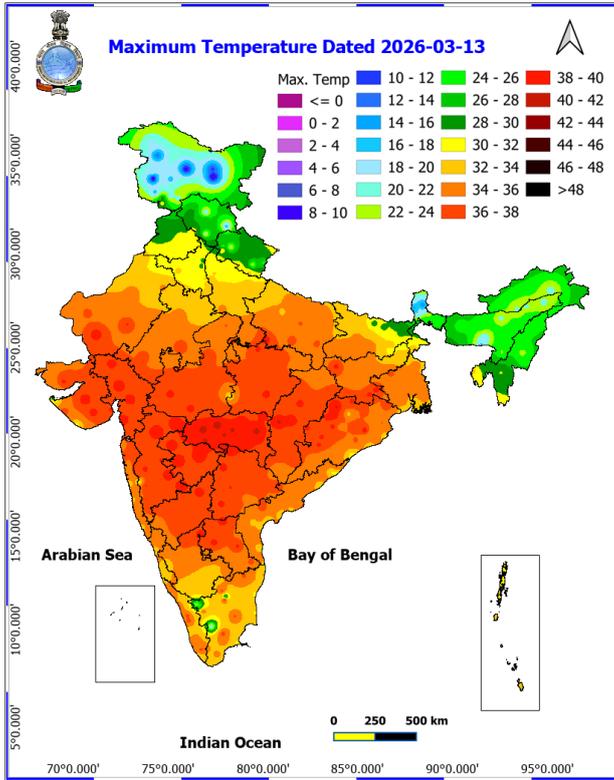
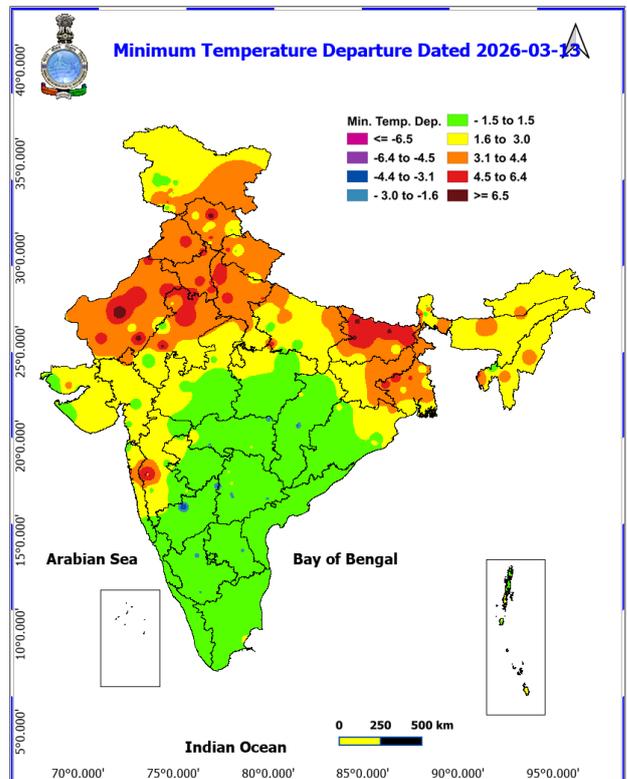
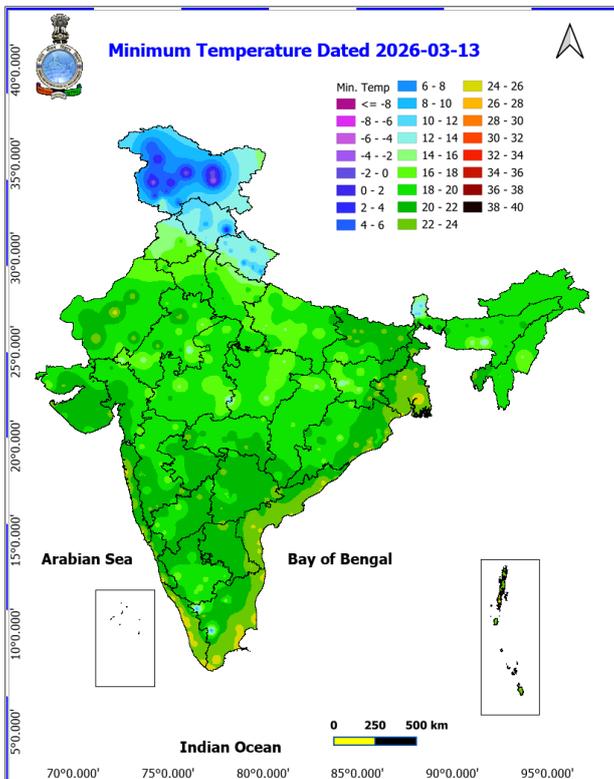
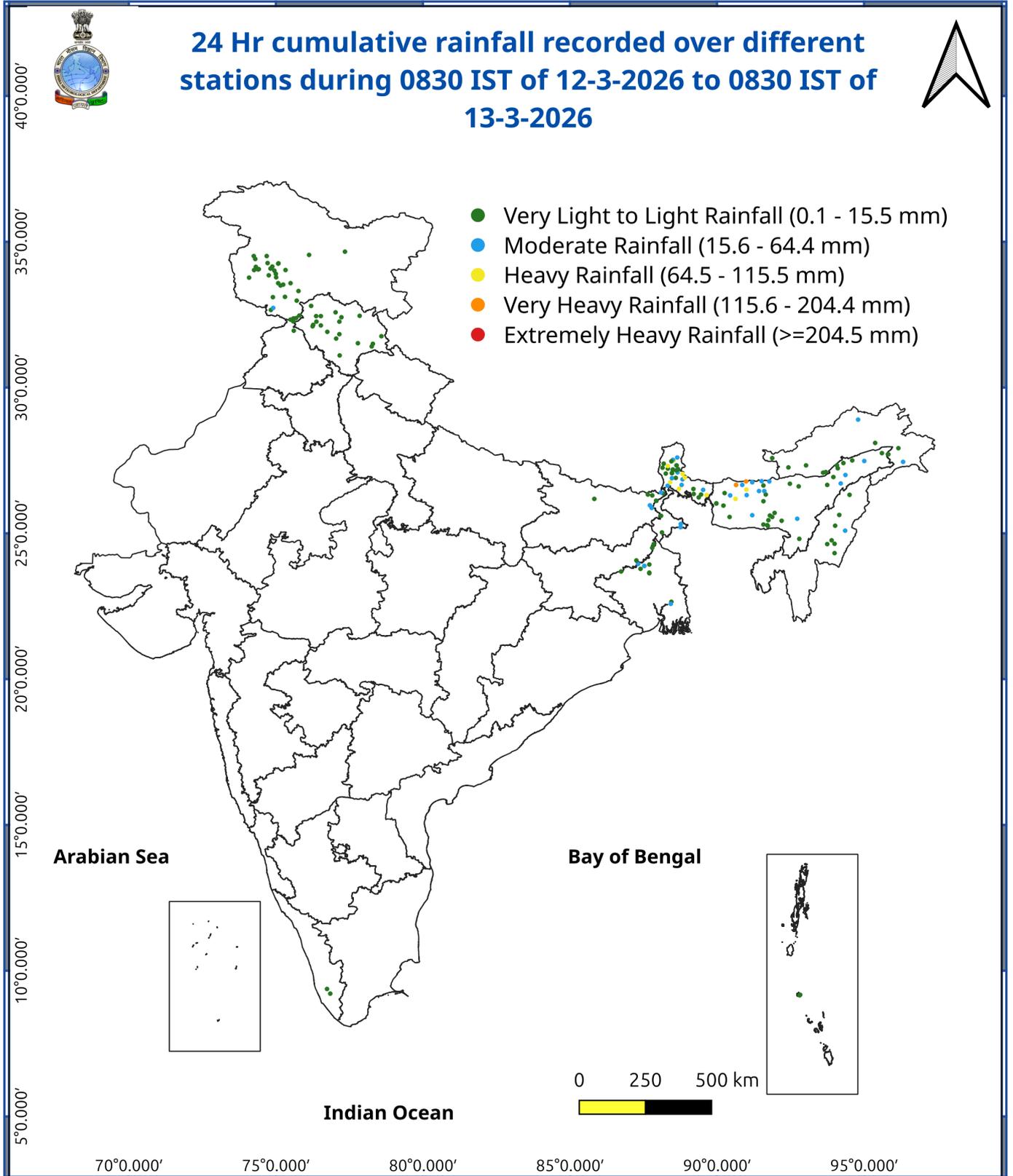


Fig. 3: Minimum Temperatures Dated 2026-03-13

Fig. 4: Departure of Minimum Temp. Dated 2026-03-13





## Impact and Actions

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

- Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh during 14<sup>th</sup>-16<sup>th</sup> March.
- Isolated heavy rainfall very likely over Assam & Meghalaya on 14<sup>th</sup> & 15<sup>th</sup> and Sub-Himalayan West Bengal & Sikkim on 16<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 thunderstorm with lightning/squally winds & Hailstorm over

- Isolated **hailstorm** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh on 15<sup>th</sup>; Uttarakhand, Punjab, Haryana, Chandigarh & East Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; West Uttar Pradesh on 16<sup>th</sup> March.
- **Thundersquall** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely at isolated places over Uttarakhand on 15<sup>th</sup> & 16<sup>th</sup> March.
- **Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh, Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; Uttarakhand, Rajasthan on 14<sup>th</sup>; Punjab, Haryana, Chandigarh during 15<sup>th</sup>-19<sup>th</sup>; Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 14<sup>th</sup> & 15<sup>th</sup>; West Madhya Pradesh on 15<sup>th</sup>; Vidarbha during 14<sup>th</sup>-17<sup>th</sup>; Odisha, Chhattisgarh, Jharkhand & Telangana during 15<sup>th</sup>-17<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 14<sup>th</sup>-19<sup>th</sup>; Gangetic West Bengal during 15<sup>th</sup>-17<sup>th</sup> & on 19<sup>th</sup>; Bihar during 15<sup>th</sup>-18<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:

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- 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.

#### Impact & Action expected due to Heat wave to severe heat wave conditions

- **Heat wave to severe heat wave conditions** very likely in isolated pockets over Himachal Pradesh on 14<sup>th</sup> March.
- **Heat wave conditions** in isolated pockets over Odisha on 14<sup>th</sup>; Jharkhand on 14<sup>th</sup> & 15<sup>th</sup> March.

#### Action suggested: (Yellow alert Areas)

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

#### Agromet advisories for various parts of the country

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

- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties, digging of mature potatoes and shift the harvested produce to safe places.
- In **Meghalaya**, make necessary arrangements for proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Harvest garden peas when the pods are green, tender, and fully developed, and keep the harvested pods in safer place immediately.
- In **Sub-Himalayan West Bengal**, dig out mature potatoes as soon as possible during clear weather and store the produce in a ventilated, dry, and cool place.

##### Agromet advisories for likely impact of Thunderstorm / Gusty 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.

##### Likely Impact of Above normal Temperatures

- Increased evapotranspiration leading to soil moisture depletion and moisture stress, which may adversely affect crop growth, seed development and yield.
- Accelerated crop maturity, shortened grain filling duration and shrivelled grain formation, resulting in possible yield reduction in wheat crop.
- Increased moisture stress and reduced grain filling in cereals and other *rabi* crops such as *rabi* maize, sorghum and other late sown *rabi* crops (vegetative to reproductive stages).
- Flower drop, poor pod setting, premature pod drying and reduction in seed size and seed weight in oilseed and pulse crops.
- Reduced tuber bulking and early plant senescence in tuber crops such as potato.
- Flower drop, fruit sunscald and reduction in marketable yield in vegetable crops such as tomato, capsicum,

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cabbage and cauliflower.

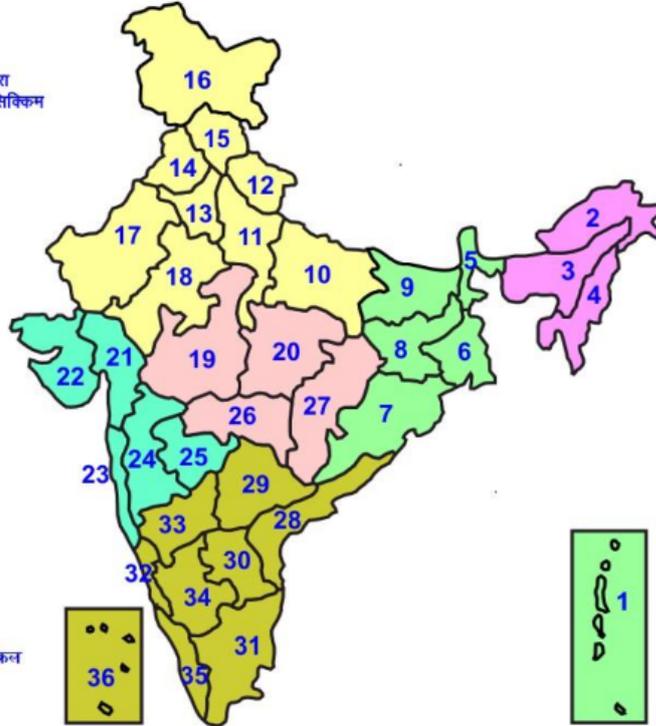
- Flower drop, reduced fruit setting, premature fruit drop, fruit sunburn (or sunscald), reduction in fruit size, uneven ripening, deformities such as spongy tissue (especially in mango), along with an overall decrease in yield and quality in horticultural crops (such as mango, apple, orange, etc.),
- Increased crop water requirements and higher risk of water stress under limited irrigation conditions.
- Reduced feed intake, milk yield and egg production along with increased water requirement in livestock and poultry.
- **Agromet advisories for likely impact of Above normal Temperatures**
- In **Gujarat**, apply light irrigation in wheat (grain filling stage), chickpea, cumin and vegetable crops in the morning and evening hours. Apply mulching with crop residues in vegetable crops to prevent heat damage and conservation of soil moisture. Protect vegetable nurseries and orchards against hot winds by physical barrier like wet gunny bag barriers of hay or sorghum.
- In **Maharashtra**, provide light and frequent irrigation during the evening or early morning hours to sapota, chilli, brinjal and tomato. Apply irrigation at frequent intervals to reduce premature fruit drop and sun scorching in mango and undertake pre-harvest bagging of mango fruits using newspaper bags to prevent sun scalding in **Konkan**. Apply irrigation in late sown *rabi* crops like wheat, groundnut, sesame, safflower, sorghum, orchards and vegetables as per requirement and use straw mulch to reduce evaporation losses in **Vidarbha**.
- In **Madhya Pradesh**, apply light irrigation in wheat, chickpea and sugarcane to minimize the impact of high temperature. Complete harvesting of matured mustard during morning/evening hours and keep the produce in safe places.
- In **Chhattisgarh**, provide **light and frequent irrigation** in standing crops such as **wheat, chickpea, lentil and mustard** to minimize heat stress and maintain adequate soil moisture.
- In **Rajasthan**, provide protective irrigation in cumin, isabgol, mustard and gram during morning or evening hours to minimize heat stress.
- In **Uttar Pradesh**, provide light irrigation in wheat (grain filling stage), mustard and gram crops during morning or evening hours to reduce adverse impacts of heat.
- In **Haryana**, provide light irrigation to mustard and gram at flowering and pod formation stages. Maintain optimum soil moisture in wheat during grain filling stage.
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

#### Livestock / Poultry

- Provide clean, hygienic and plenty of drinking water to animals.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass.

## 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 | Hailstrom       | 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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