

2026-03-20

Time of Issue: 19:52:00 hours IST  
(Night)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Northwest India:

- **Widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph gusting to 60kmph) likely over Western Himalayan region on 20<sup>th</sup> March and reduction in intensity thereafter. **Isolated heavyrainfall/snowfall very likely over Himachal Pradesh and Uttarakhand on 20<sup>th</sup> March.** Another fresh wet spell with isolated to scattered light to moderate rainfall/snowfall likely with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 kmph) over Himachal Pradesh on 23<sup>rd</sup> & 26<sup>th</sup> & Uttarakhand on 23<sup>rd</sup> March.
- **Scattered to fairly widespread** light to moderate rainfall accompanied with isolated thunderstorm, lightning & gusty winds speed reaching (30-40 kmph) likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh on 20<sup>th</sup> and East Uttar Pradesh on 20<sup>th</sup> & 21<sup>st</sup>; with **lightning** over East Rajasthan on 20<sup>th</sup> March.
- Isolated **Hailstorm** activity likely over Uttarakhand and Uttar Pradesh on 20<sup>th</sup> March.

#### Northeast India:

- **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightninggusty winds speed reaching (30-50 kmph)** likely over Assam & Meghalaya on 20<sup>th</sup> and Nagaland, Manipur, Mizoram & Tripura on 20<sup>th</sup> & 21<sup>st</sup> March; **Thunderstorm & lightning** likely over Northeast India during next 5 days.
- **Isolated heavy rainfall** likely over Assam & Meghalaya on 20<sup>th</sup> & 24<sup>th</sup>; Arunachal Pradesh on 24<sup>th</sup> March.
- Isolated **Hailstorm** activity likely over Tripura on 20<sup>th</sup> March.

#### East & Central India:

- **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning& gusty winds speed reaching (40-50 gusting to 60 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 20<sup>th</sup>-24<sup>th</sup> March. Isolated **heavyrainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 20<sup>th</sup> & 21<sup>st</sup> March with isolated **very heavy falls** on 21<sup>st</sup> March.
- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph)** likely over Central & East India during next 2-3 days.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Jharkhand on 20<sup>th</sup>; Gangetic West Bengal on 20<sup>th</sup> & 21<sup>st</sup> March.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Odisha on 20<sup>th</sup> & 21<sup>st</sup> and Sub-Himalayan West Bengal & Sikkim on 21<sup>st</sup> March.
- Isolated **Hailstorm** activity likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand on 20<sup>th</sup> and West Bengal & Sikkim, Odisha on 20<sup>th</sup> & 21<sup>st</sup> March.

#### South Peninsular India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning& gusty winds speed reaching (30-50 kmph)** likely over Coastal Andhra Pradesh & Yanam during 20<sup>th</sup>-22<sup>nd</sup>; Rayalaseema, Telangana, North Interior Karnataka on 20<sup>th</sup> & 21<sup>st</sup>; South Interior Karnataka on 20<sup>th</sup> March; **with lightning** over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 20<sup>th</sup> & 21<sup>st</sup> and South Interior Karnataka on 21<sup>st</sup>, 22<sup>nd</sup> & 24<sup>th</sup> March.

#### West India:

- **Isolated** light/moderate rainfall with **thunderstorm & lightning & gusty winds speed reaching (30-50 kmph)** likely over Madhya Maharashtra on 20<sup>th</sup>, 23<sup>rd</sup> & 24<sup>th</sup>; Marathawada on 20<sup>th</sup>, 21<sup>st</sup>, 23<sup>rd</sup> & 24<sup>th</sup> March.
- Isolated **Hailstorm** activity likely over Madhya Maharashtra and Marathawada on 20<sup>th</sup> March.

#### Hot & Humid weather Warnings:

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

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- **Hot & humid conditions** very likely to prevail in isolated pockets over Kerala & Mahe during 20<sup>th</sup>-22<sup>nd</sup>; Konkan & Goa and Coastal Karnataka on 22<sup>nd</sup> & 23<sup>rd</sup> March.

**Forecast of maximum/day temperatures:**

- Gradual fall in maximum temperatures by 2-3°C likely over Northwest India during next 24 hours and gradual rise by 5-7°C during subsequent 6 days except Uttar Pradesh where maximum temperatures are likely to gradually fall by 6-8°C during next 2 days and gradual rise by 4-6°C during subsequent 5 days.
- No significant change in maximum temperatures likely over Central India during next 2 days; gradual rise by 3-5°C during subsequent 5 days.
- Gradual fall in maximum temperatures by 2-3°C likely over East India during next 2 days and gradual rise by 3-5°C during subsequent 5 days.
- Gradual rise in maximum temperatures by 3-5°C likely over Gujarat State during next 4 days and no significant change during subsequent 3 days.
- Gradual rise in maximum temperatures by 2-4°C likely over Maharashtra during next 4 days and no significant change during subsequent 3 days.
- No significant change in maximum temperatures likely over rest parts of the country.

**Main Weather Observations:**

❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at most places** over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Uttarakhand and West Uttar Pradesh; **at many places** over Odisha, Gangetic West Bengal, Vidarbha, Andaman & Nicobar Islands, Saurashtra & Kutch, East Rajasthan, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Jammu & Kashmir and Ladakh, Haryana Chandigarh & Delhi, Sub-himalayan West Bengal & Sikkim, Chhattisgarh, Assam & Meghalaya, West Madhya Pradesh, Jharkhand, Punjab, East Madhya Pradesh and Tamilnadu Puducherry & Karaikal; **Dry** over rest of the country.

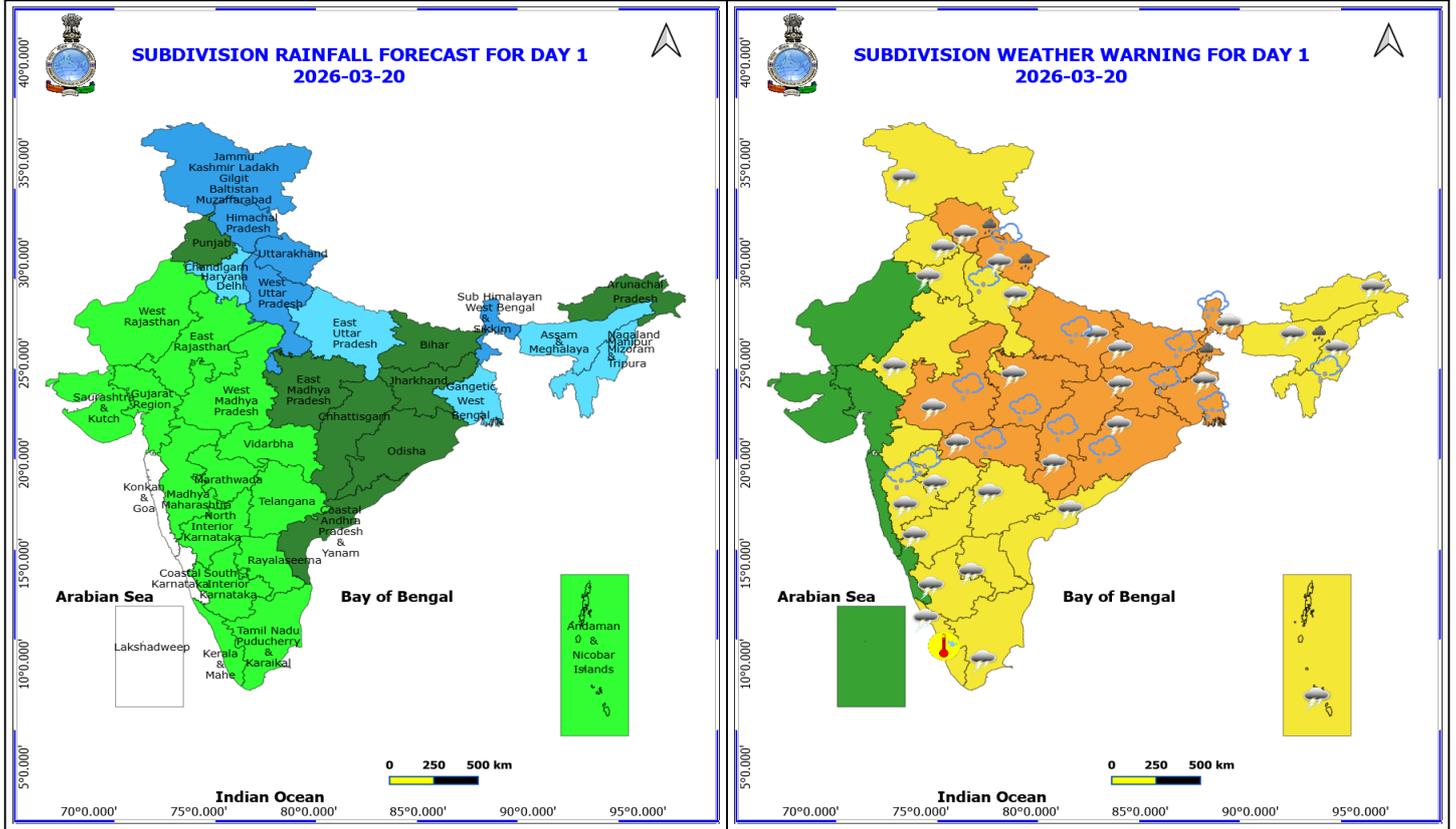
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST to 1730 hours IST of today): **Himachal Pradesh:** Una (dist Una), Bhuntar, Kullu AP, Manali (dist Kullu), Shimla-city (dist Shimla), Dharamshala (dist Kangra) 3 Each, Sundernagar, Mandi (dist Mandi), Kangra (dist Kangra) 2 Each; **Nagaland, Manipur, Mizoram & Tripura:** Kailashahar AP (dist Unakoti) 3, Aizawl (dist Aizawl) 2, Agartala AP (dist West Tripura), Aizawl-lengpui (dist Mamit) 1 Each; **West Madhya Pradesh:** Sheopur (dist Sheopur) 2; **Odisha:** Keonjhar (dist Kendujhar) 2; **East Uttar Pradesh:** Lucknow (amausi) AP (dist Lucknow) 2, Bahraich (dist Bahraich) 1; **Uttarakhand:** Dehra Dun-mokampur (dist Dehradun), Tehri (dist Tehri Garhwal) 2 Each, Mukteswar (kumaun) (dist Nainital) 1; **Jharkhand:** Daltonganj (dist Palamu) 1; **West Uttar Pradesh:** Jhansi (dist Jhansi), Meerut (dist Meerut) 1 Each; **Punjab:** Chandigarh (dist Chandigarh) 1; **Assam & Meghalaya:** Cherrapunji, Barapani/shillong (dist East Khasi Hills), Halflong (dist Dima Hasao) 1 Each; **East Madhya Pradesh:** Mandla (dist Mandla) 1.

❖ **Minimum Temperature Departures (as on 20-03-2026):** **markedly above normal(> 5.1°C)** at few places over Bihar; at isolated places over East Uttar Pradesh and East Madhya Pradesh. **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, West Uttar Pradesh, Uttarakhand, Konkan & Goa, Madhya Maharashtra, Marathwada and Coastal Andhra Pradesh & Yanam. **above normal(1.6°C to 3.0°C)** at many places over Jharkhand; at most places over Arunachal Pradesh; at few places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim and Gangetic West Bengal ; at isolated places over Assam & Meghalaya, Odisha, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh and Saurashtra & Kutch.. **The lowest minimum temperature** of 10.0°C was reported at Gurdaspur (Punjab) over the Plains of India.

❖ **Maximum Temperature Departures (as on 20-03-2026):** **above normal (1.6? to 3.0?)** at a few places over Arunachal Pradesh, Lakshadweep; at isolated places over Gangetic West Bengal, Jharkhand, Kerala & Mahe, Vidarbha; **markedly below normal (-5.1? or less)** at most places over Uttarakhand; at many places over Gujarat Region, Himachal Pradesh; at a few places over Arunachal Pradesh, East Madhya Pradesh, East Rajasthan, Haryana-Chandigarh-Delhi, Punjab, West Madhya Pradesh, West Rajasthan, West Uttar Pradesh; at isolated places over Assam & Meghalaya, East Uttar Pradesh, Jammu & Kashmir, Madhya Maharashtra, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim, Vidarbha; **appreciably below normal (-3.1? to -5.0?)** at many places over Marathwada; at a few places over Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Telangana; at isolated places over Coastal Andhra Pradesh & Yanam, Gangetic West Bengal, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal; **below normal (-3.0? to -1.6?)** at most places over Rayalaseema; at many places over Andaman & Nicobar Islands; at a few places over South Interior Karnataka; at isolated places over Bihar, Jharkhand, Konkan & Goa, Odisha. **The highest maximum temperature of 37.6°C was reported at Khargone (West Madhya Pradesh).**

**Meteorological Analysis (Based on 1730 hours IST)**

- The **Western Disturbance** as a trough from North Pakistan to Southwest Madhya Pradesh across Punjab & Rajasthan between 3.1 & 12.6 km above mean sea level persists.
- The induced **upper air cyclonic circulation** over Haryana at 1.5 km above mean sea level persists.
- The **trough** from **upper air cyclonic circulation** over Haryana to North Gujrat across Rajasthan at 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over northwest Madhya Pradesh & adjoining south Uttar Pradesh at 0.9 km above mean sea level persists.
- The **trough** from **upper air cyclonic circulation** over northwest Madhya Pradesh & adjoining south Uttar Pradesh to Vidarbha at 0.9 km above mean sea level persists.
- The **trough** from **cyclonic circulation** over northwest Madhya Pradesh & adjoining south Uttar Pradesh to Nagaland across Jharkhand, north Gangetic West Bengal & South Assam at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over Lakshadweep & neighbourhood at 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over Northeast Assam & adjoining Arunachal Pradesh at 1.5 & 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over westcentral Bay of Bengal off north Coastal Andhra Pradesh at 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over South Interior Karnataka & neighbourhood at 1.5 km above mean sea level persists.
- The **trough** from Gulf of Mannar to North Interior Karnataka across Tamil Nadu and South Interior Karnataka at 0.9 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.
- A fresh feeble **Western Disturbance** is likely to affect northwest India from 22<sup>nd</sup> March and another active **Western Disturbance** is likely to affect northwest India from 26<sup>th</sup> March 2026.



**20 March (Day 1)**

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

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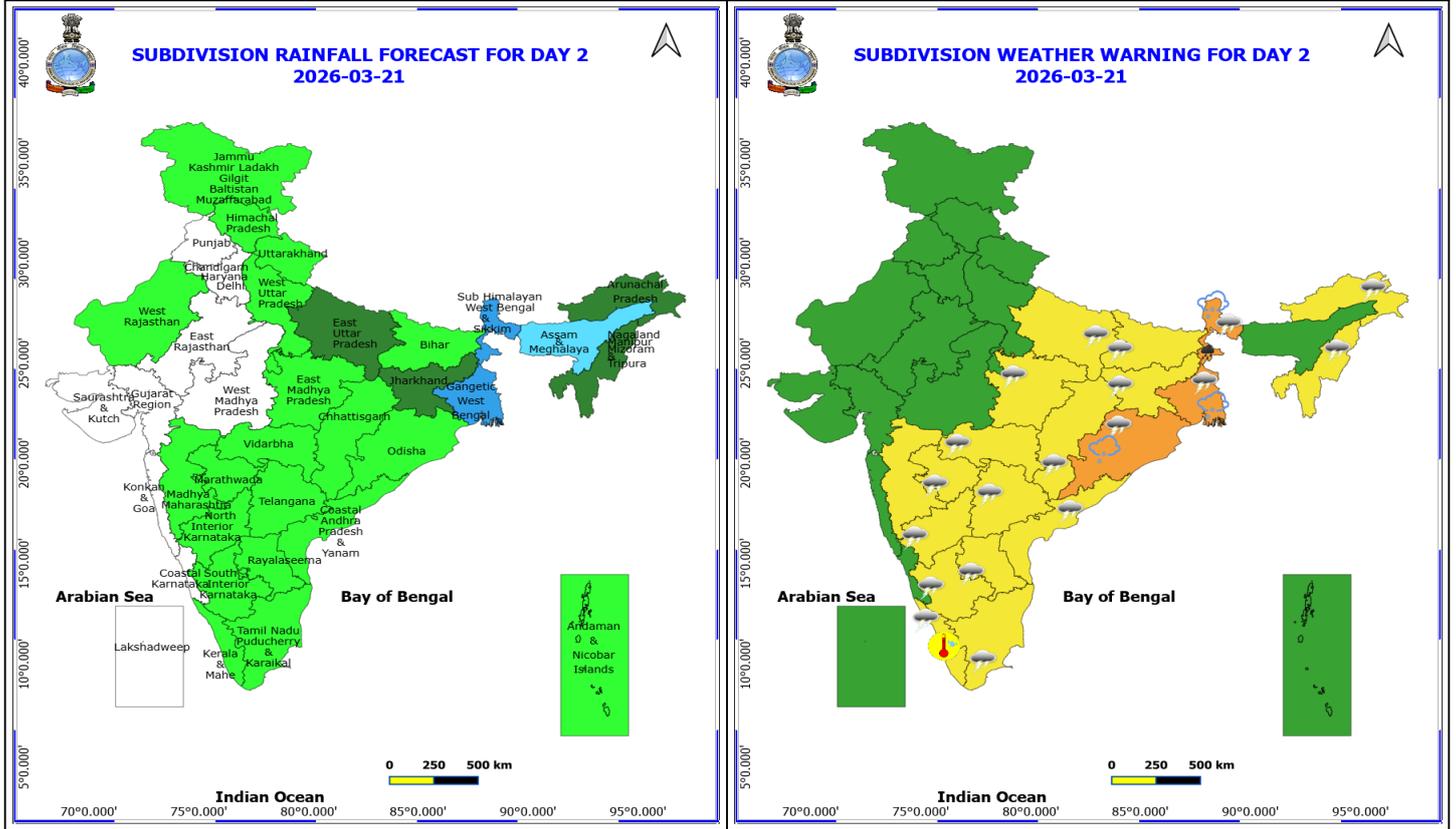
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Bengal coasts.



## 21 March (Day 2)

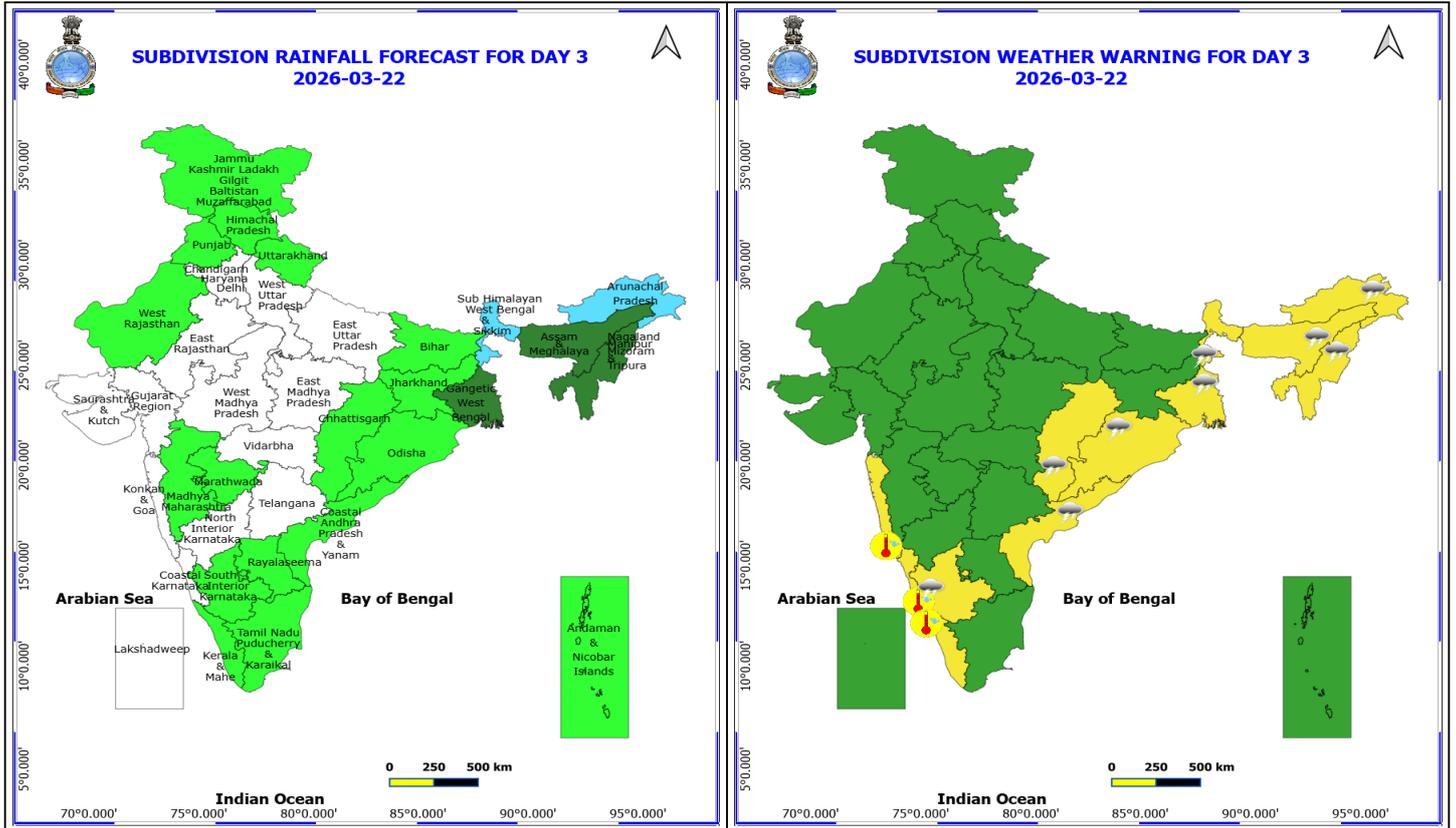
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Odisha and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(60-70kmph) gusting to 80 kmph** very likely at isolated places over Gangetic West Bengal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, East Uttar Pradesh, Jharkhand and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Chhattisgarh, Marathwada, North Interior Karnataka, Telangana and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, East Madhya Pradesh, Kerala & Mahe, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Hot and Humid weather** very likely at isolated places over Kerala & Mahe.
- ❖ **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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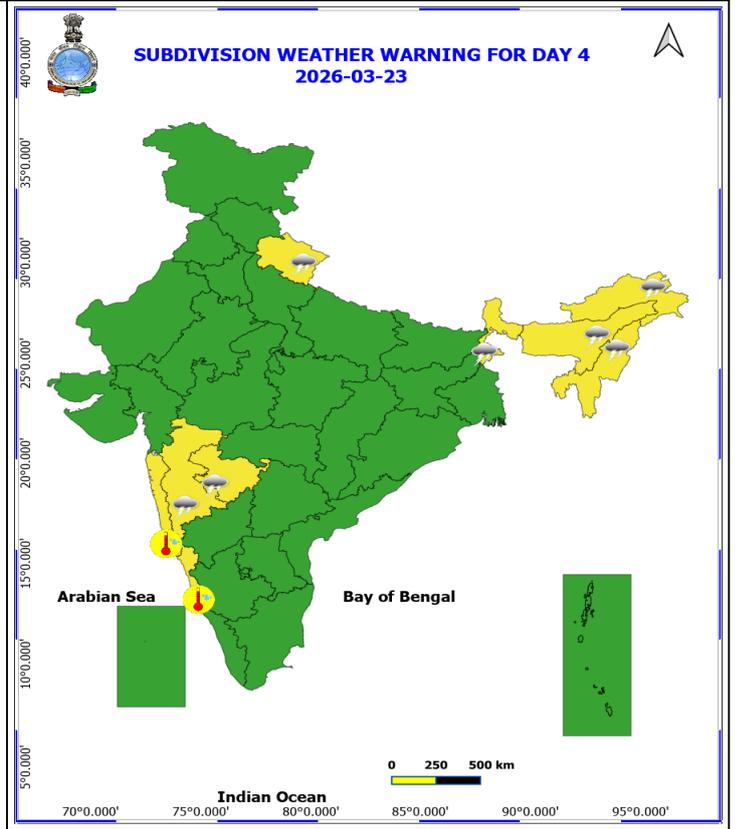
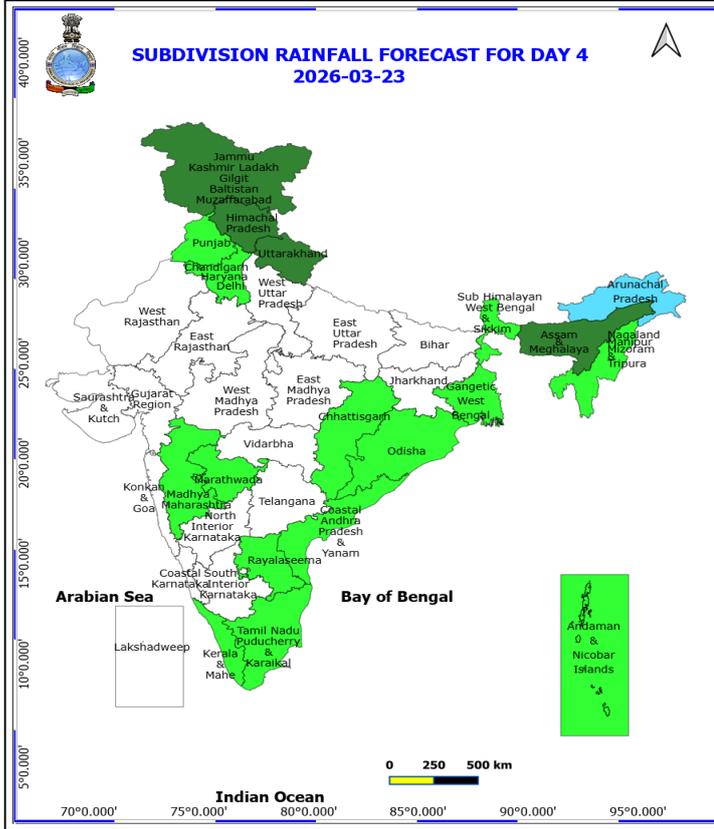
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**22 March (Day 3)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh, Gangetic West Bengal and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura and South Interior Karnataka.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Karnataka, Kerala & Mahe and Konkan & Goa.

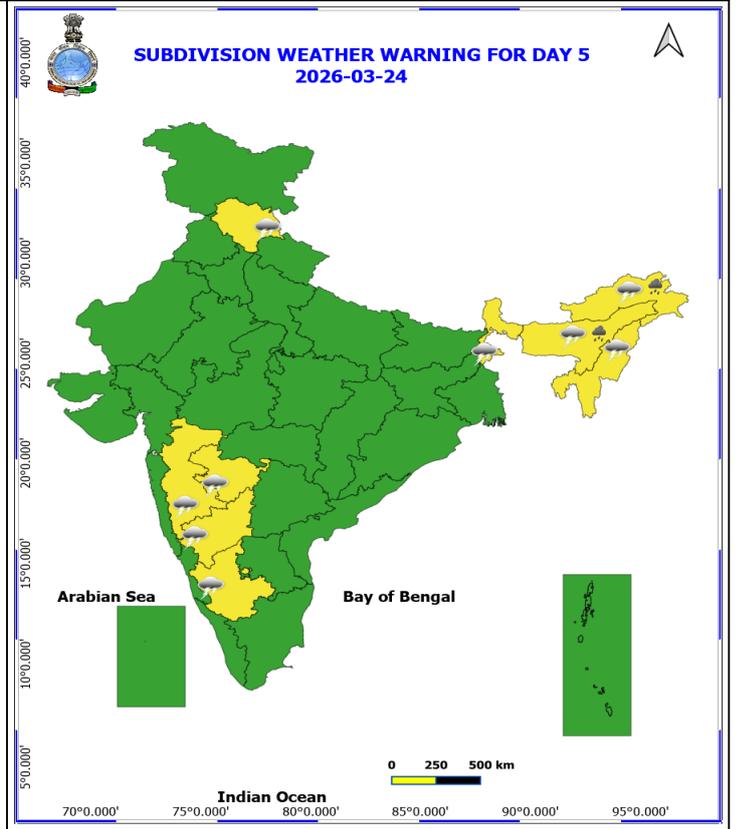
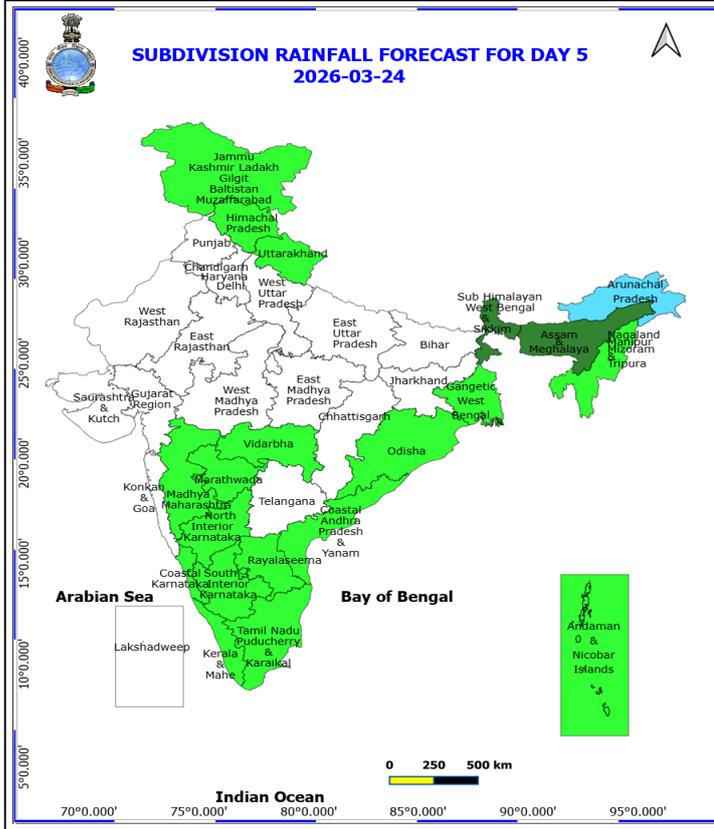
**No Fishermen Warning**



### 23 March (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Madhya Maharashtra, Marathwada and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Karnataka and Konkan & Goa.

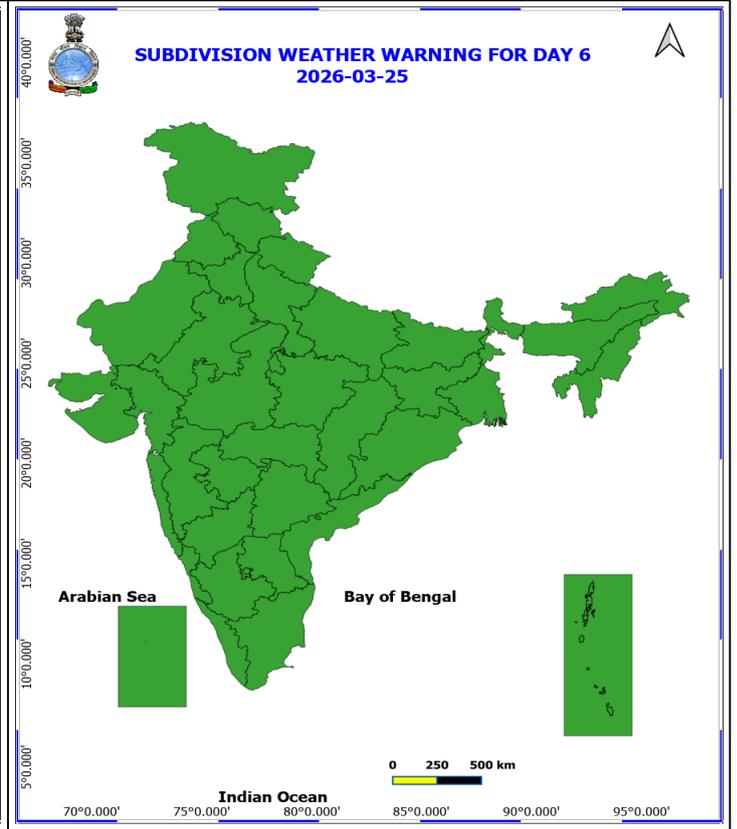
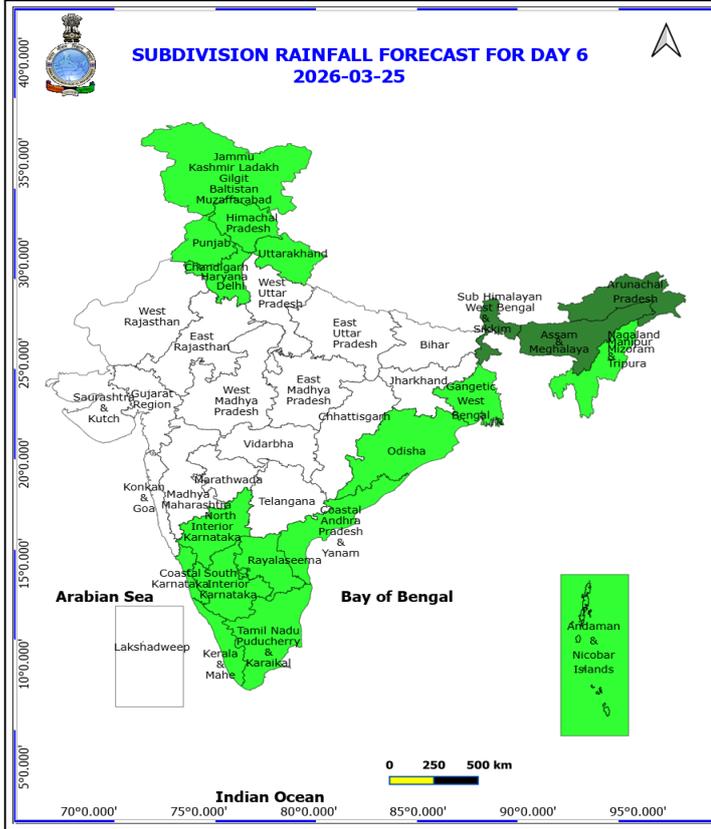
**No Fishermen Warning**



## 24 March (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh, Madhya Maharashtra, Marathwada, North Interior Karnataka and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura and South Interior Karnataka.

**No Fishermen Warning**



**25 March (Day 6)**

**No Warning**

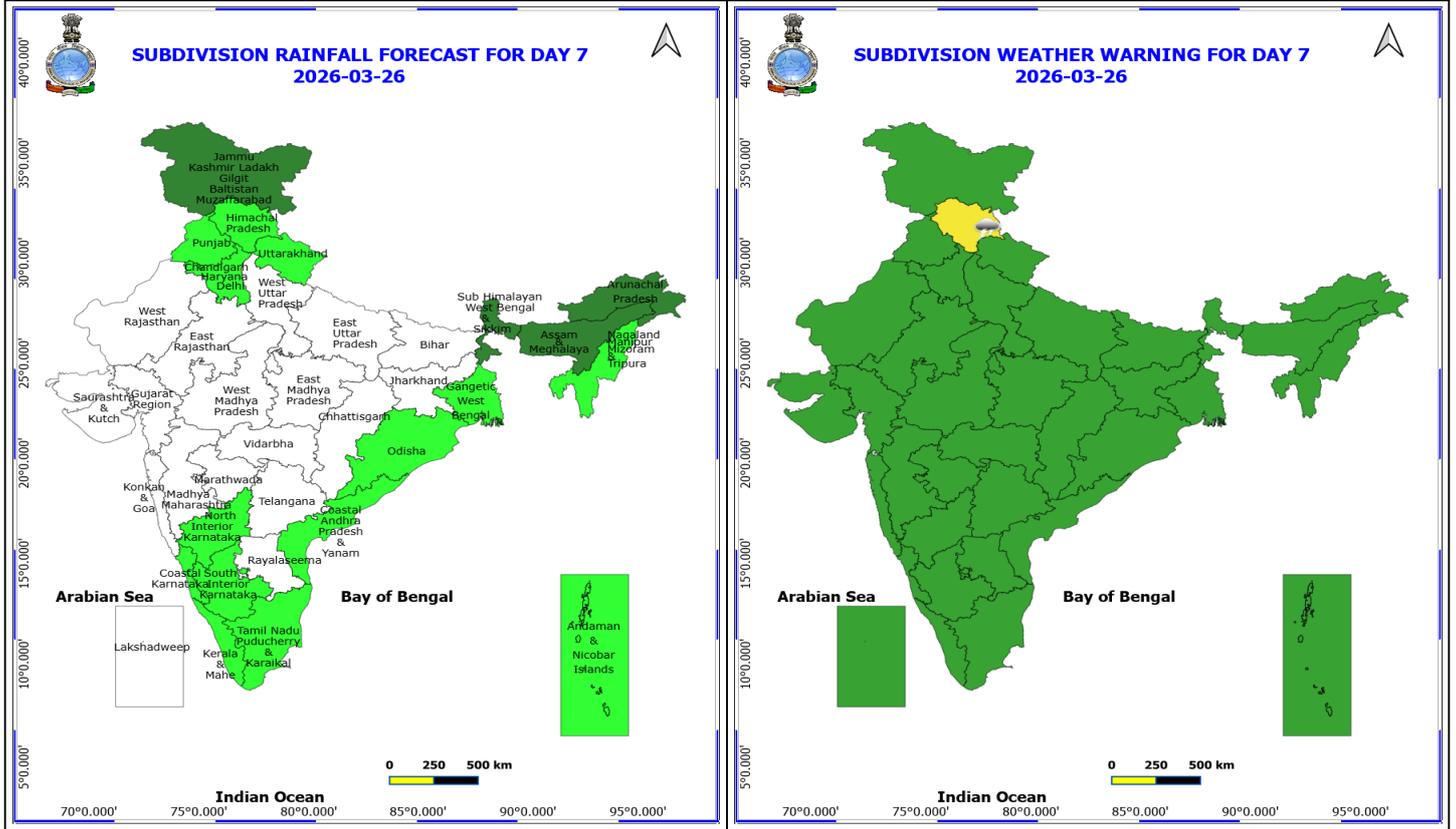
**No Fishermen Warning**

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**26 March (Day 7)**

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph) likely at isolated places over Himachal Pradesh.**

**No Fishermen Warning**



## 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	ISOL						
2	ARUNACHAL PRADESH	SCT	SCT	FWS	FWS	FWS	SCT	SCT
3	ASSAM & MEHGHALAYA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
4	N. M. M. & T.	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
5	S.H. WEST BENGAL & SIKKIM	WS	WS	FWS	ISOL	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	FWS	WS	SCT	ISOL	ISOL	ISOL	ISOL
7	ODISHA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	SCT	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	FWS	SCT	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	WS	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	WS	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	FWS	DRY	DRY	ISOL	DRY	ISOL	ISOL
14	PUNJAB	SCT	DRY	ISOL	ISOL	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	SCT
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	DRY	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						
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
26	VIDARBHA	ISOL	ISOL	DRY	DRY	ISOL	DRY	DRY
27	CHATTISGARH	SCT	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
31	TAMILNADU & PUDUCHERRY	ISOL						
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	DRY	ISOL	ISOL	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 2026-03-20

Fig. 2: Departure of Maximum Temp. Dated 2026-03-20

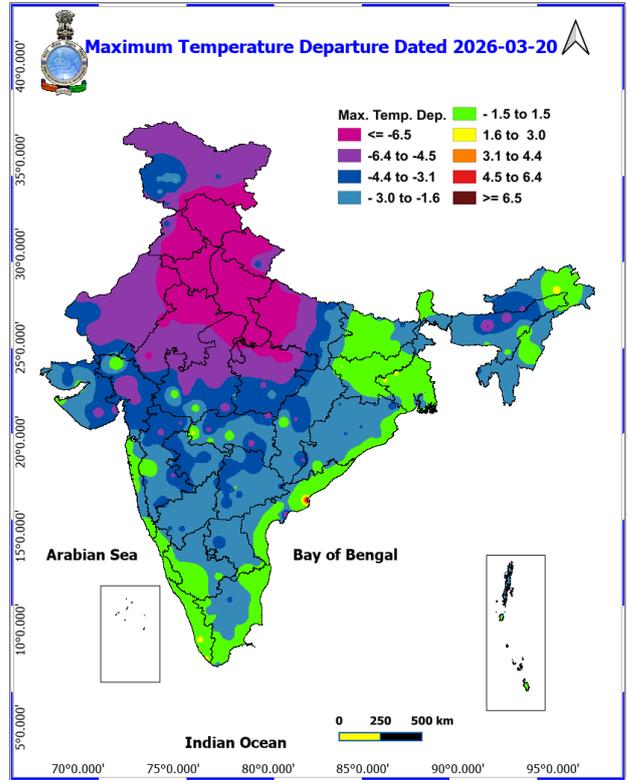
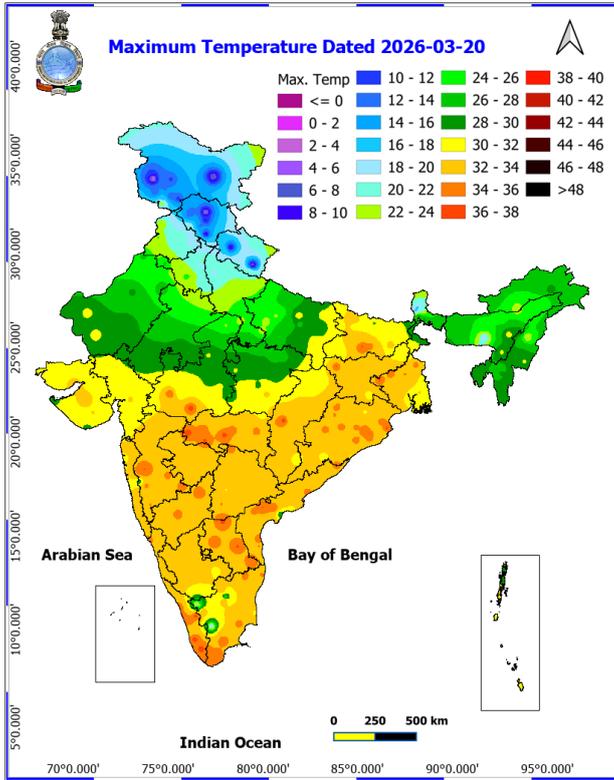
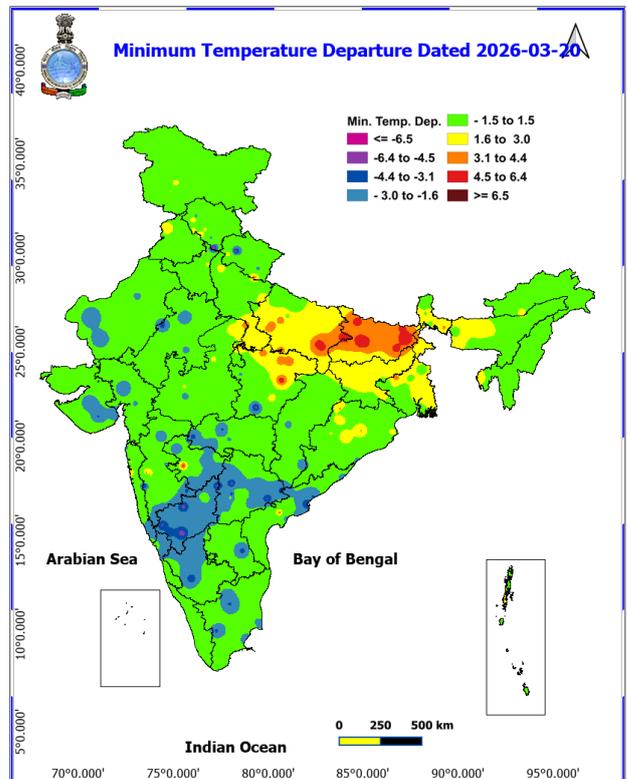
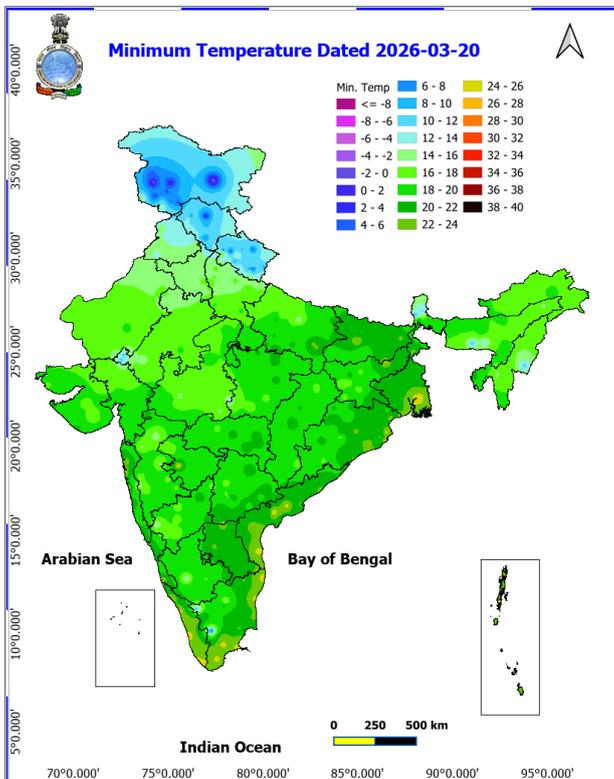


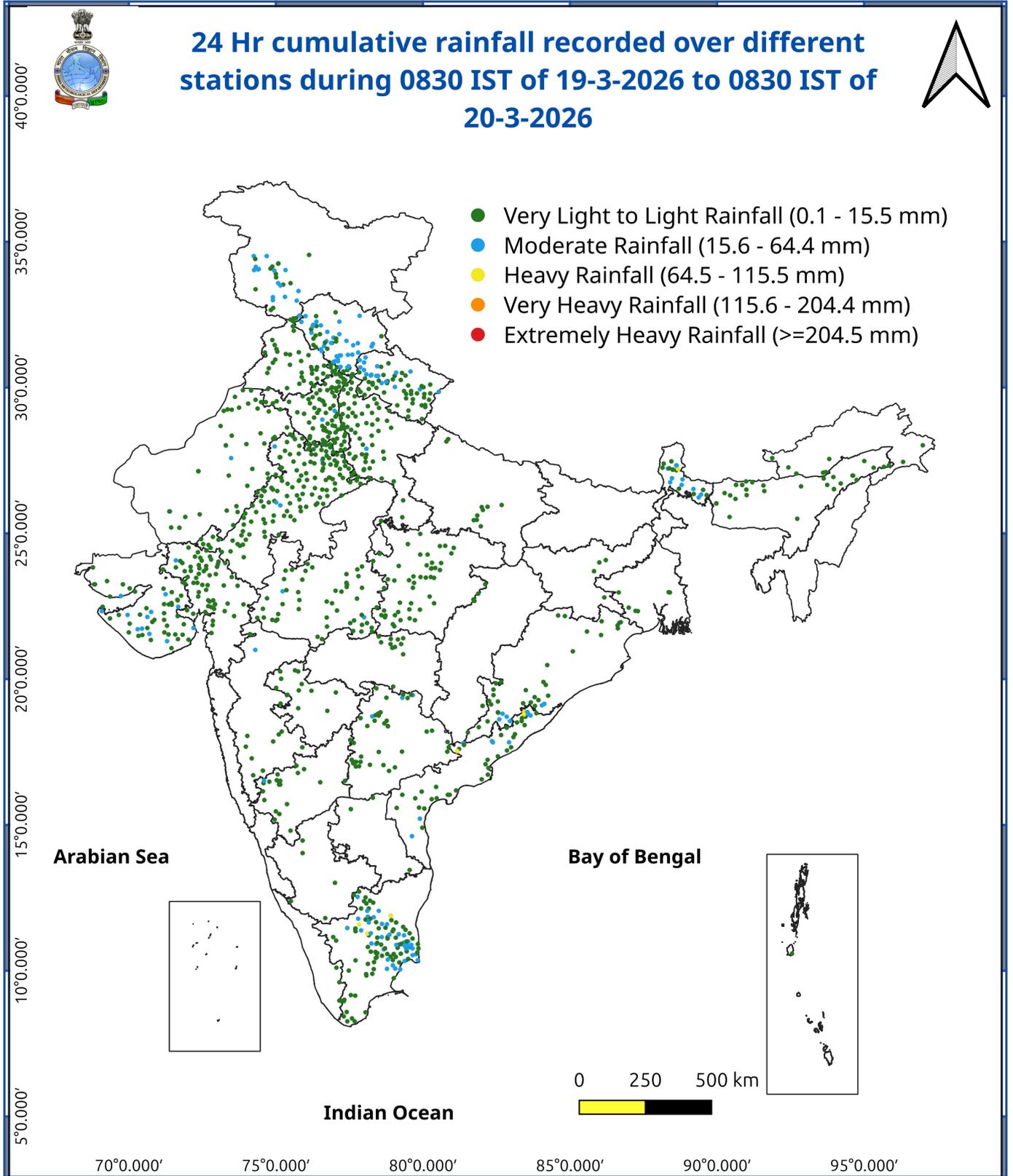
Fig. 3: Minimum Temperatures Dated 2026-03-20

Fig. 4: Departure of Minimum Temp. Dated 2026-03-20



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## Impact and Actions

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

- Heavy rainfall/snowfall very likely over Himachal Pradesh and Uttarakhand on 20<sup>th</sup> March.
- Heavy rainfall likely over Assam & Meghalaya on 20<sup>th</sup> & 24<sup>th</sup>; Arunachal Pradesh on 24<sup>th</sup> March.
- Heavy rainfall likely over Sub-Himalayan West Bengal & Sikkim on 20<sup>th</sup> & 21<sup>st</sup> March with isolated very heavy falls on 21<sup>st</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 & suggested expected due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- Isolated **Hailstorm** activity likely over Uttarakhand, Uttar Pradesh, Tripura, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Madhya Maharashtra & Marathawada on 20<sup>th</sup> and West Bengal & Sikkim, Odisha on 20<sup>th</sup> & 21<sup>st</sup> March.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Jharkhand on 20<sup>th</sup>; Gangetic West Bengal on 20<sup>th</sup> & 21<sup>st</sup> March.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Odisha on 20<sup>th</sup> & 21<sup>st</sup> and Sub-Himalayan West Bengal & Sikkim on 21<sup>st</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

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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 **Uttarakhand, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Jharkhand, Bihar, Madhya Maharashtra** and **Marathwada**,

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

- In **Himachal Pradesh**, ensure proper drainage in the wheat crop and vegetables to avoid water stagnation.
- In **Uttarakhand**, ensure proper drainage in wheat, barley, mustard, lentil crops and vegetables. Keep the harvested produce of matured rapeseed, mustard & vegetable pea in safe place.
- 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.

#### 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.
- **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,

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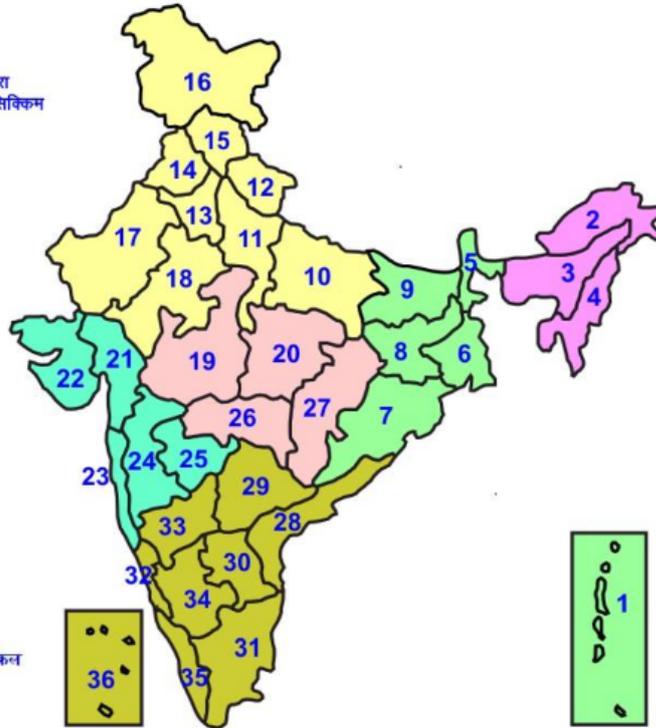


Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.

- **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.

## 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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