

2026-04-05

Time of Issue: 08:10:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather forecast and warnings:

##### Northwest India:

- **Fairly widespread to widespread** light to moderate rainfall with thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph gusting to 60 Kmph) likely over Himachal Pradesh on 05<sup>th</sup> & 06<sup>th</sup> April; Uttarakhand on 05<sup>th</sup>; **Isolated to scattered** light to moderate rainfall with isolated thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph gusting to 60 Kmph) likely over East Uttar Pradesh on 05<sup>th</sup> and Rajasthan on 06<sup>th</sup> April.
- Another fresh wet spell with **Scattered to fairly widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph gusting to 60 Kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabadduring 07<sup>th</sup> -10<sup>th</sup>; Himachal Pradesh on 09<sup>th</sup>; Uttarakhand on 07<sup>th</sup>- 09<sup>th</sup> April; **Isolated to scattered** light to moderate rainfall with isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph) likely over Punjab, Haryana Chandigarh & Delhi and West Uttar Pradesh on 07<sup>th</sup> & 08<sup>th</sup>; East Uttar Pradesh on 08<sup>th</sup> with lightning over East Rajasthan on 08<sup>th</sup> April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 04<sup>th</sup>, Himachal Pradesh on 07<sup>th</sup> & 08<sup>th</sup>, West Uttar Pradesh on 07<sup>th</sup>; East Uttar Pradesh 05<sup>th</sup> & 08<sup>th</sup>; West Rajasthan on 07<sup>th</sup> and East Rajasthan on 05<sup>th</sup> & 07<sup>th</sup> April.
- **Isolated hailstorm activity** also likely over Jammu-Kashmir on 07<sup>th</sup> & 08<sup>th</sup>; Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi on 07<sup>th</sup> & 08<sup>th</sup>; West Rajasthan on 06<sup>th</sup> & 07<sup>th</sup>; East Rajasthan on 05<sup>th</sup> & 07<sup>th</sup> April.

##### Northeast India:

- **Scattered to Fairly widespread** light to moderate rainfall with **thunderstorm, lightninggusty winds** (speed reaching 30-40 kmph) likely over Assam & Meghalaya on 05<sup>th</sup> & 08<sup>th</sup> and Nagaland, Manipur, Mizoram & Tripura on 05<sup>th</sup> April with lightning over Arunachal Pradesh during 05<sup>th</sup> -08<sup>th</sup> and Nagaland, Manipur, Mizoram & Tripura on 06<sup>th</sup> April.
- **Isolated heavy rainfall** likely over Arunachal Pradesh on 05<sup>th</sup> & during 07<sup>th</sup> - 10<sup>th</sup>; Assam & Meghalaya on 05<sup>th</sup>, 08<sup>th</sup> & 09<sup>th</sup> April.

##### East India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph) likely over Sub-Himalayan West Bengal & Sikkim during 05<sup>th</sup> -07<sup>th</sup> & 09<sup>th</sup>; Gangetic West Bengal during 05<sup>th</sup> -06<sup>th</sup> and on 09<sup>th</sup>; Bihar on 05<sup>th</sup>, 06<sup>th</sup> & 09<sup>th</sup>; Jharkhand on 07<sup>th</sup> & 08<sup>th</sup> and Odisha during next 5 days.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Sub-Himalayan West Bengal & Sikkim on 08<sup>th</sup>; Gangetic West Bengal on 07<sup>th</sup> & 08<sup>th</sup>; Bihar on 07<sup>th</sup> & 08<sup>th</sup>; Jharkhand on 05<sup>th</sup> & 06<sup>th</sup> April.
- **Isolated Hailstorm activity** likely over Sub-Himalayan West Bengal & Sikkim and Bihar on 07<sup>th</sup> & 08<sup>th</sup>; Gangetic West Bengal on 07<sup>th</sup>; Jharkhand 05<sup>th</sup> -07<sup>th</sup> April.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 08<sup>th</sup> -09<sup>th</sup> April.

##### Central India:

- **Isolated to scattered** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph) likely over Central India during next 5 days.

##### West India:

- **Isolated to scattered** light to moderate rainfall **with thunderstorm, lightning& gusty winds** (speed reaching 30-40 kmph) likely over Marathawada on 05<sup>th</sup> and Gujarat State on 05<sup>th</sup> & 08<sup>th</sup> April.

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**South Peninsular India:**

- **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph) likely over Kerala & Mahe during 05<sup>th</sup> -07<sup>th</sup>; Interior Karnataka and Telangana during 05<sup>th</sup> -08<sup>th</sup>; Rayalaseema during 05<sup>th</sup> -08<sup>th</sup> with lightning over Tamil Nadu, Puducherry & Karaikal during 05<sup>th</sup> -08<sup>th</sup> and Kerala & Mahe on 08<sup>th</sup> April.

**Hot & Humid weather Warnings:**

- **Hot & humid conditions** very likely to prevail in isolated pockets over Rayalaseema on 05<sup>th</sup> April.

**Forecast of maximum/day temperatures:**

- Gradual rise by 2-3°C on 05<sup>th</sup> & 07<sup>th</sup> April and fall by 3-5°C during 07<sup>th</sup> -11<sup>th</sup> April. However, it will remain normal to below normal till 09<sup>th</sup> April, 2026.
- Gradual fall by 3-4 °C during 05<sup>th</sup> -09<sup>th</sup> and no significant change till 11<sup>th</sup> April.
- No significant change in maximum temperatures likely over West India till 07<sup>th</sup> and gradual rise in maximum temperatures by 2-3°C during 08<sup>th</sup> -11<sup>th</sup> April.
- No significant change in maximum temperatures likely over rest parts of the country.

**Main Weather Observations:**

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over West Uttar Pradesh, Jharkhand, Jammu & Kashmir and Ladakh, Himachal Pradesh and East Madhya Pradesh; **at many places** over West Madhya Pradesh, Punjab, East Rajasthan, West Rajasthan, Haryana Chandigarh & Delhi, Bihar, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Assam & Meghalaya, Tamilnadu Puducherry & Karaikal, Odisha, Arunachal Pradesh, Sub-himalayan West Bengal & Sikkim, Kerala & Mahe, Chhattisgarh, Telangana and Rayalaseema; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **West Madhya Pradesh:** Gwalior (dist Gwalior) 3; **East Uttar Pradesh:** Kanpur Airforce (dist Kanpur Nagar) 3; **Tamilnadu Puducherry & Karaikal:** Madurai AP (dist Madurai) 3, Salem (dist Salem) 2; Jammu & Kashmir And Ladakh: Batote, Bheaderwah (dist Doda), Pahalgam (dist Anantnag) 2 Each, Banihal (dist Doda), Quazigund, Kukernag (dist Anantnag), Srinagar- City (dist Srinagar), Kupwara (dist Kupwara) 1 Each; **Himachal Pradesh:** Sundernagar (dist Mandi) 2; **East Madhya Pradesh:** Sagar (dist Sagar) 1; **Odisha:** Chandbali (dist Bhadrak) 1; **Arunachal Pradesh:** Itanagar (dist Papum Pare) 1; **Assam & Meghalaya:** North Lakhimpur (dist Lakhimpur), Tezpur (dist Sonitpur) 1 Each; Sub-himalayan West Bengal & Sikkim: Bagdogra AP (dist Darjeeling) 1.

❖ **Minimum Temperature Departures (as on 04-04-2026):** were **appreciably above normal (3.1°C to 5.0°C)** over Punjab, Uttar Pradesh, Bihar, West Madhya Pradesh, Odisha, Chhattisgarh, West Bengal & Sikkim, Assam and Nagaland **above normal (1.6°C to 3.0°C)** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana Chandigarh & Delhi, East Madhya Pradesh, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Assam & Meghalaya, Mizoram; **below normal (-3.0°C to -1.6°C)** over West Rajasthan, Saurashtra & Kutch and near normal over rest parts of the country. **The lowest minimum temperature of 14.6°C was reported at Bathinda (Punjab) over the Plains of India.**

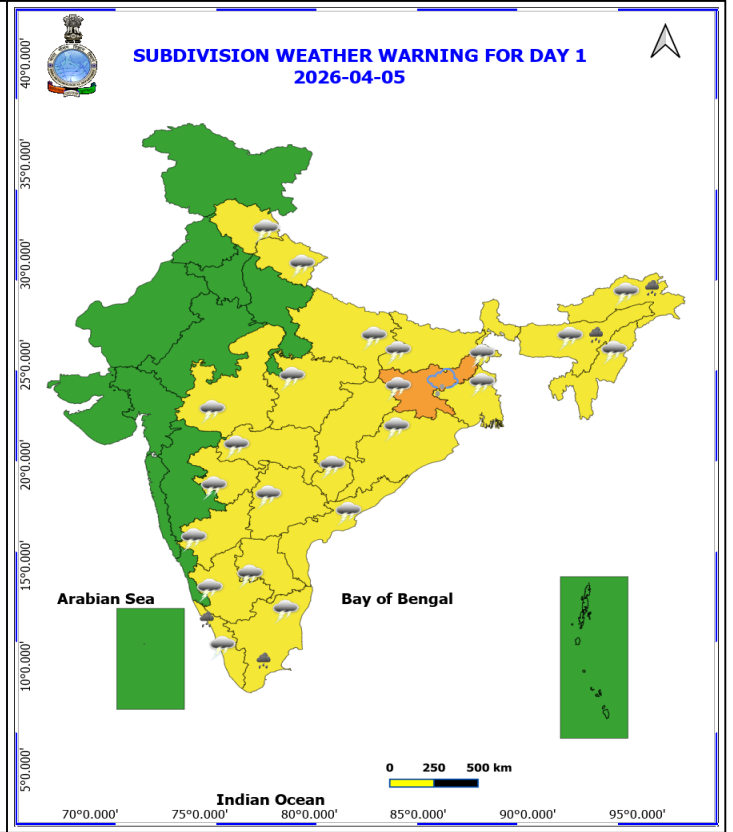
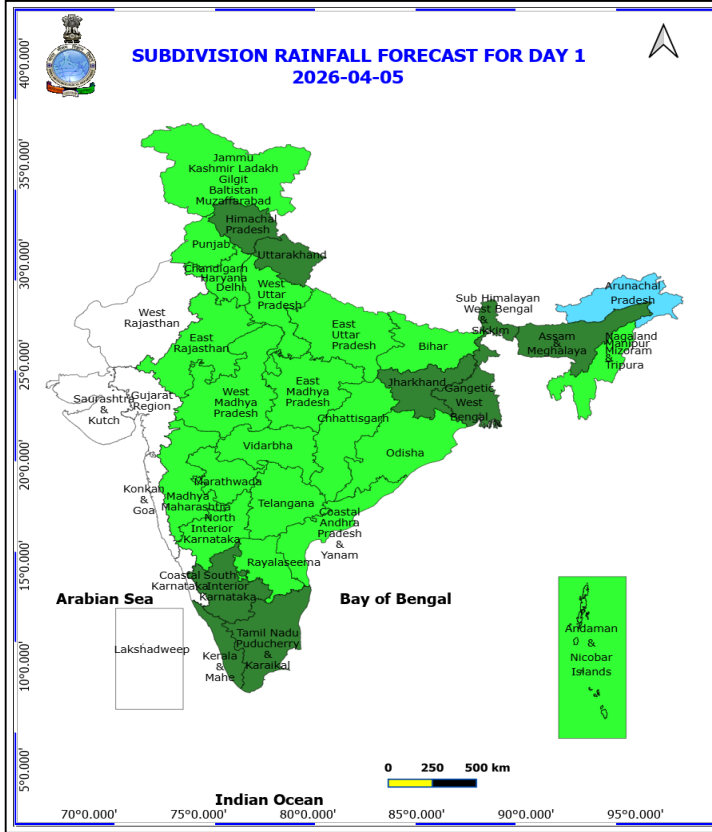
❖ **Maximum Temperature Departures (as on 04-04-2026):** **markedly above normal (> 5.1°C)** at isolated places over Gangetic West Bengal. **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Assam & Meghalaya, Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh and Tamil Nadu, Puducherry & Karaikal. **above normal (1.6°C to 3.0°C)** at few places over Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha and Lakshadweep; at isolated places over East Uttar Pradesh, West Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. **near normal (-1.5°C to 1.5°C)** at many places over Uttarakhand, Telangana and Rayalaseema; at most places over Andaman & Nicobar Islands, Arunachal Pradesh, Jharkhand, Konkan & Goa and Coastal Karnataka; at few places over Haryana-Chandigarh-Delhi, Punjab, Madhya Maharashtra, Marathwada and South Interior Karnataka; at isolated places over Himachal Pradesh, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch and North Interior Karnataka. **The highest maximum temperature of 40.3°C was reported at VELLORE-OBS (TAMIL NADU).**

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

- The **Western Disturbance as a cyclonic circulation** over central Pakistan & neighbourhood between 3.1 & 9.6 km above mean sea level persists.
- The **upper-air cyclonic circulation** over Punjab & neighbourhood at 1.5 km above mean sea level persists.
- The **trough** from northwest Bihar to Manipur across Sub-Himalayan West Bengal, North Bangladesh, Meghalaya and Southeast Assam at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over north Odisha & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **upper-air cyclonic circulation** over south Coastal Andhra Pradesh & neighbourhood between 1.5 & 3.1 km above mean sea level persists.
- The **trough** from Marathawada to south Tamil Nadu across 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 Central & East India.
- A fresh **Western Disturbance** is likely to affect Northwest India from 07<sup>th</sup> April, 2026.

### Weather Outlook for subsequent 3 days

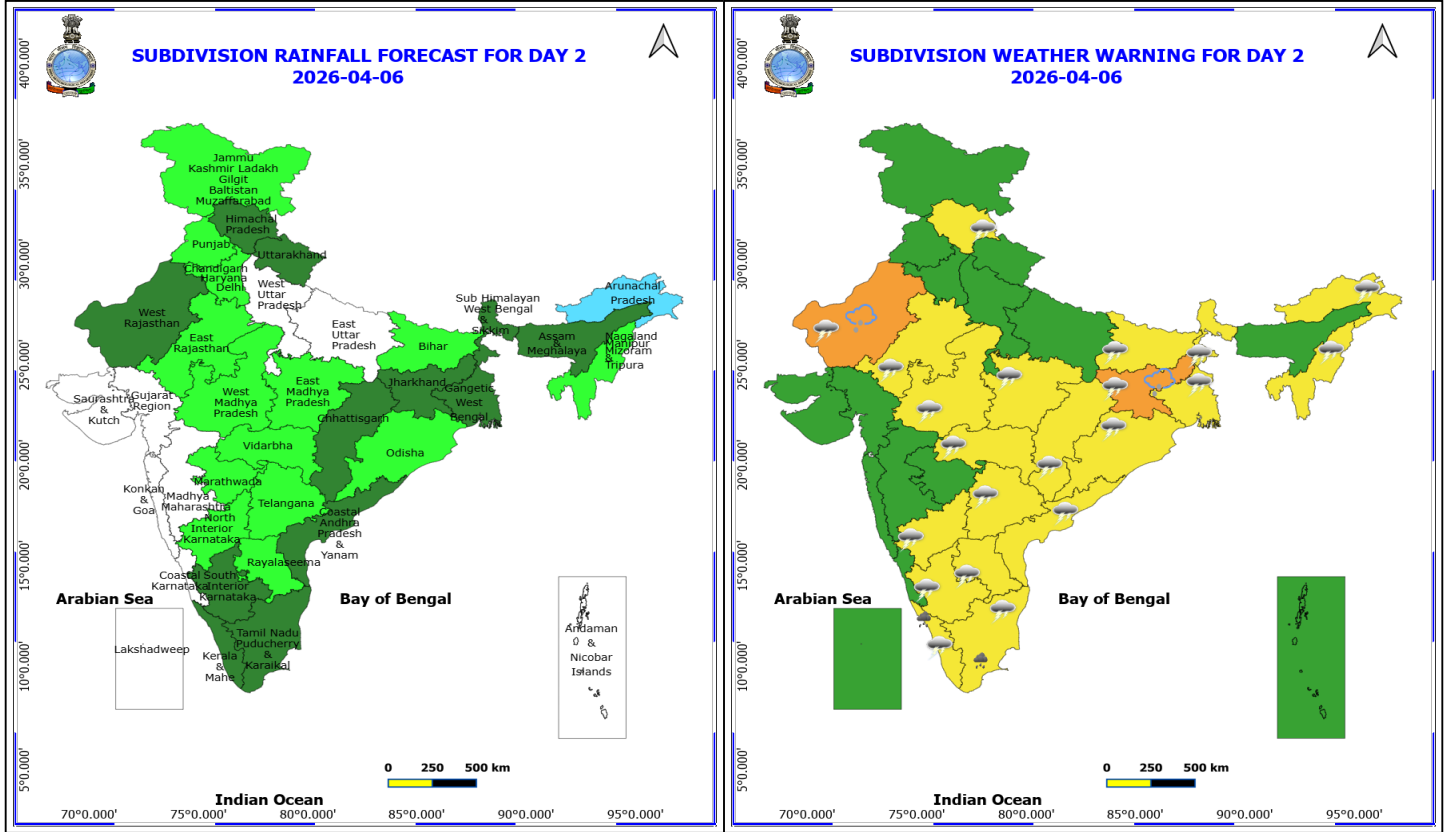
- Widespread rainfall activity likely over Northeast India, Jammu & Kashmir adjoining Punjab, Himachal Pradesh, Tamil Nadu and Isolated rainfall activity over Uttarakhand & adjoining plains of western himalayan region, Central India, Odisha & adjoining Coastal Andhra Pradesh.



### 5 April (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Jharkhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Jharkhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Chhattisgarh, Kerala & Mahe, Odisha, Uttarakhand, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Himachal Pradesh, Interior Karnataka, Madhya Pradesh, Marathwada, Nagaland, Manipur, Mizoram and Tripura and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, East Uttar Pradesh and Tamil Nadu Puducherry & Karaikal.

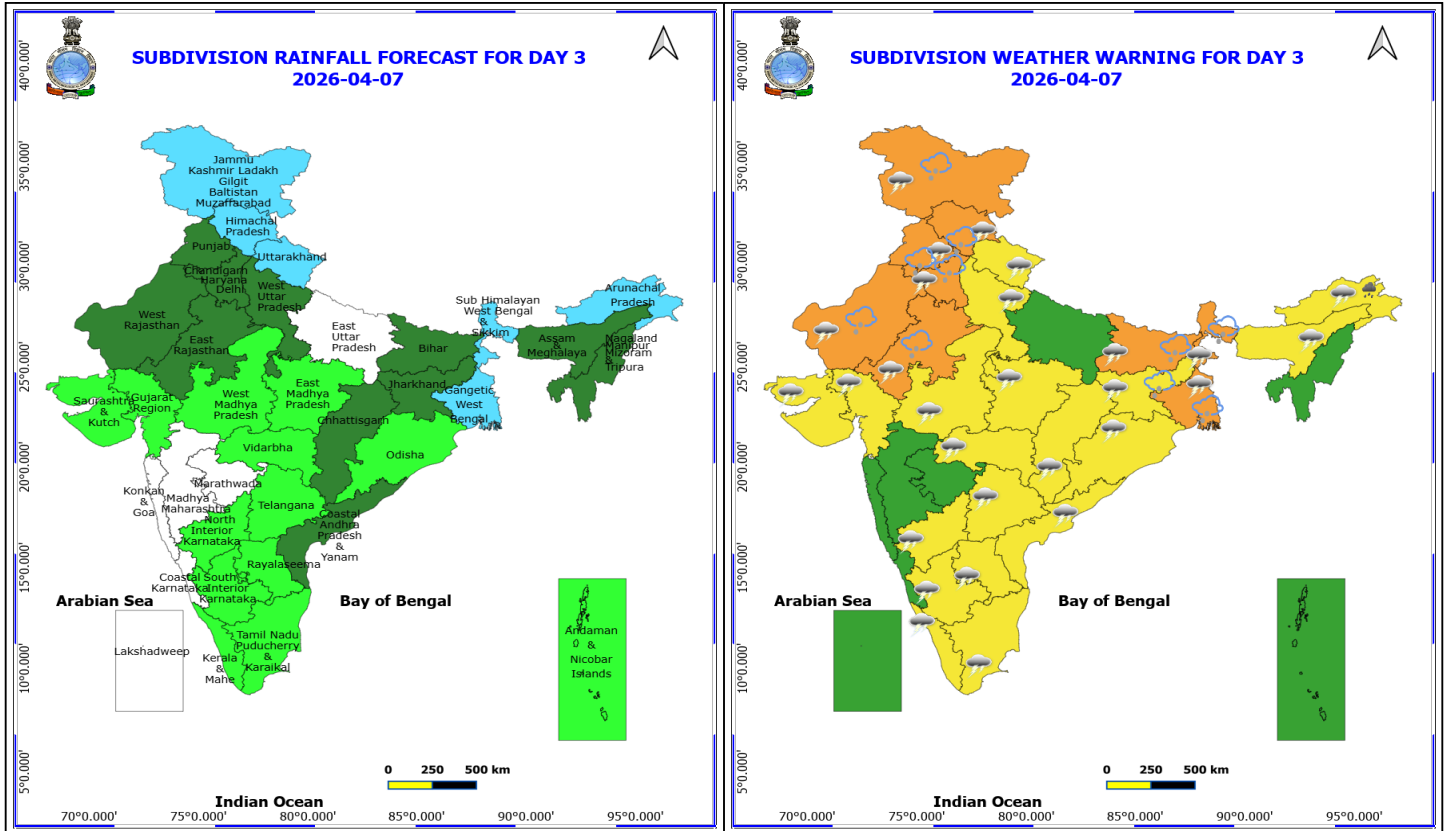
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**6 April (Day 2)**

- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Jharkhand and West Rajasthan.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Jharkhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Chhattisgarh, Gangetic West Bengal, Kerala & Mahe, Odisha, Vidarbha and West Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, East Rajasthan, Himachal Pradesh, Interior Karnataka, Madhya Pradesh, Sub Himalayan West Bengal & Sikkim and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Tamil Nadu Puducherry & Karaikal.

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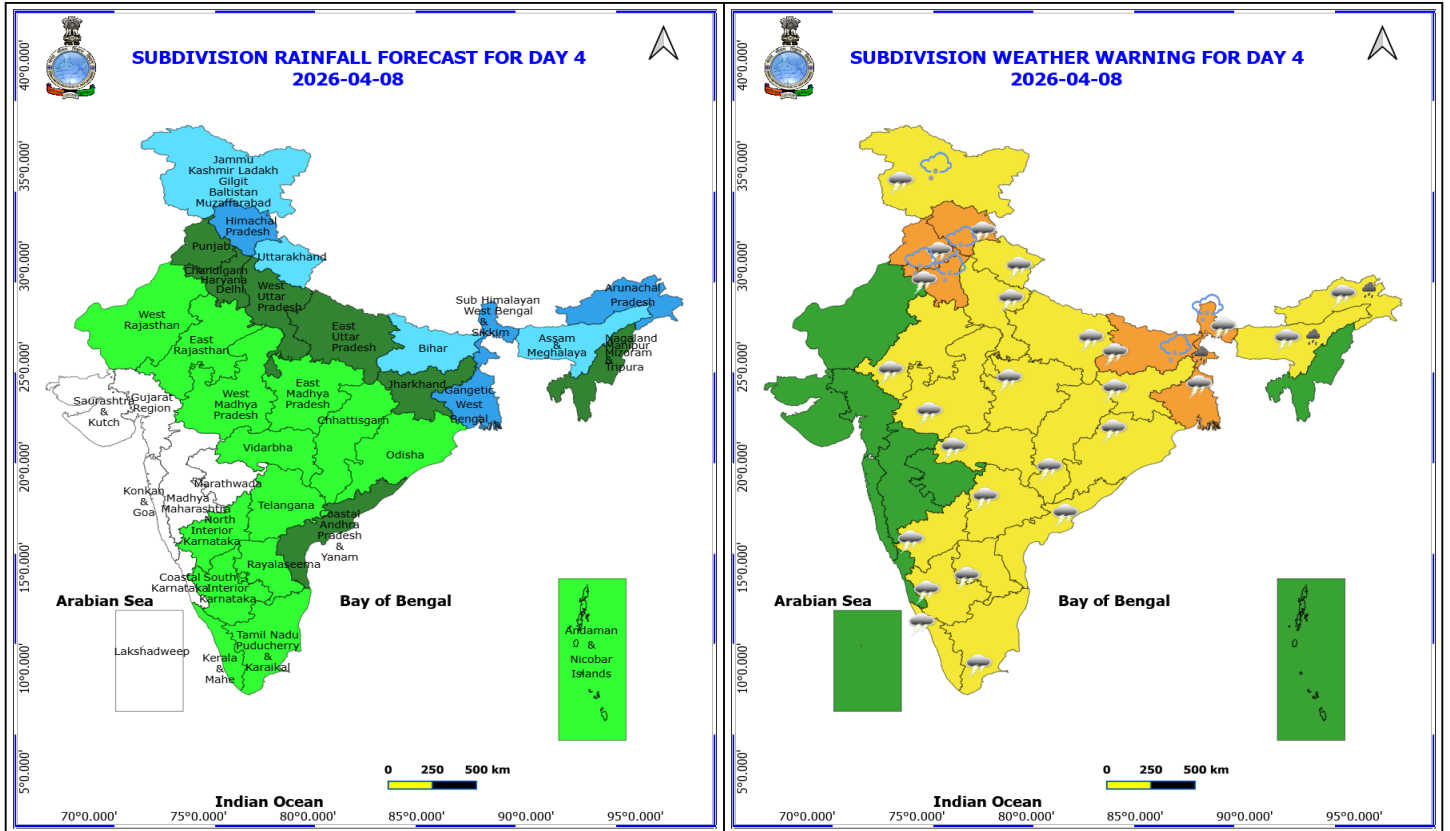


**7 April (Day 3)**

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Punjab, Rajasthan and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Gangetic West Bengal, Himachal Pradesh and Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim, Uttarakhand, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh, Gujarat State, Interior Karnataka, Kerala & Mahe, Telangana and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally wind with speed 45 – 55 kmph gusting to 65 kmph** likely to prevail over Gulf of Oman.

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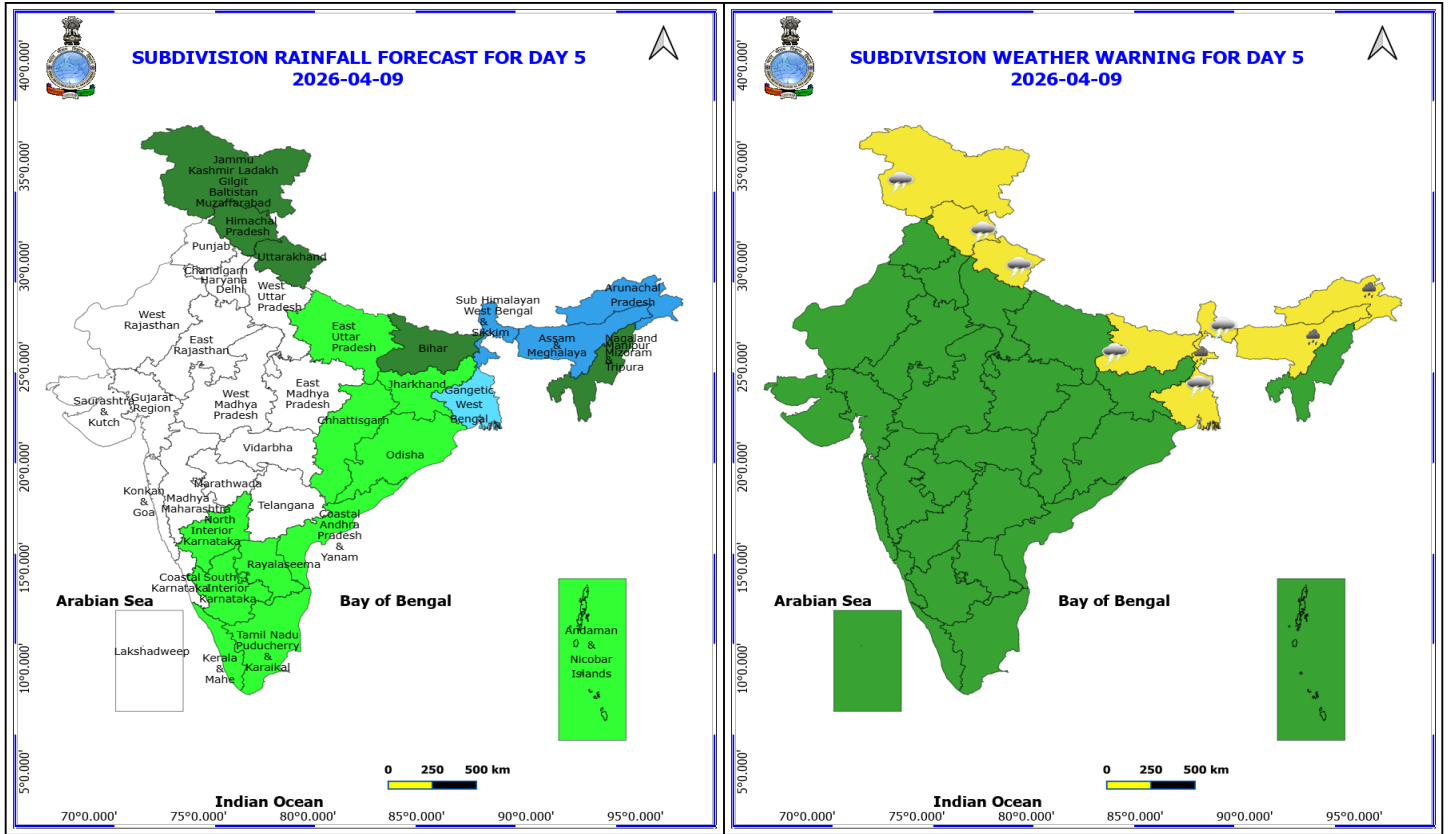
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**8 April (Day 4)**

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

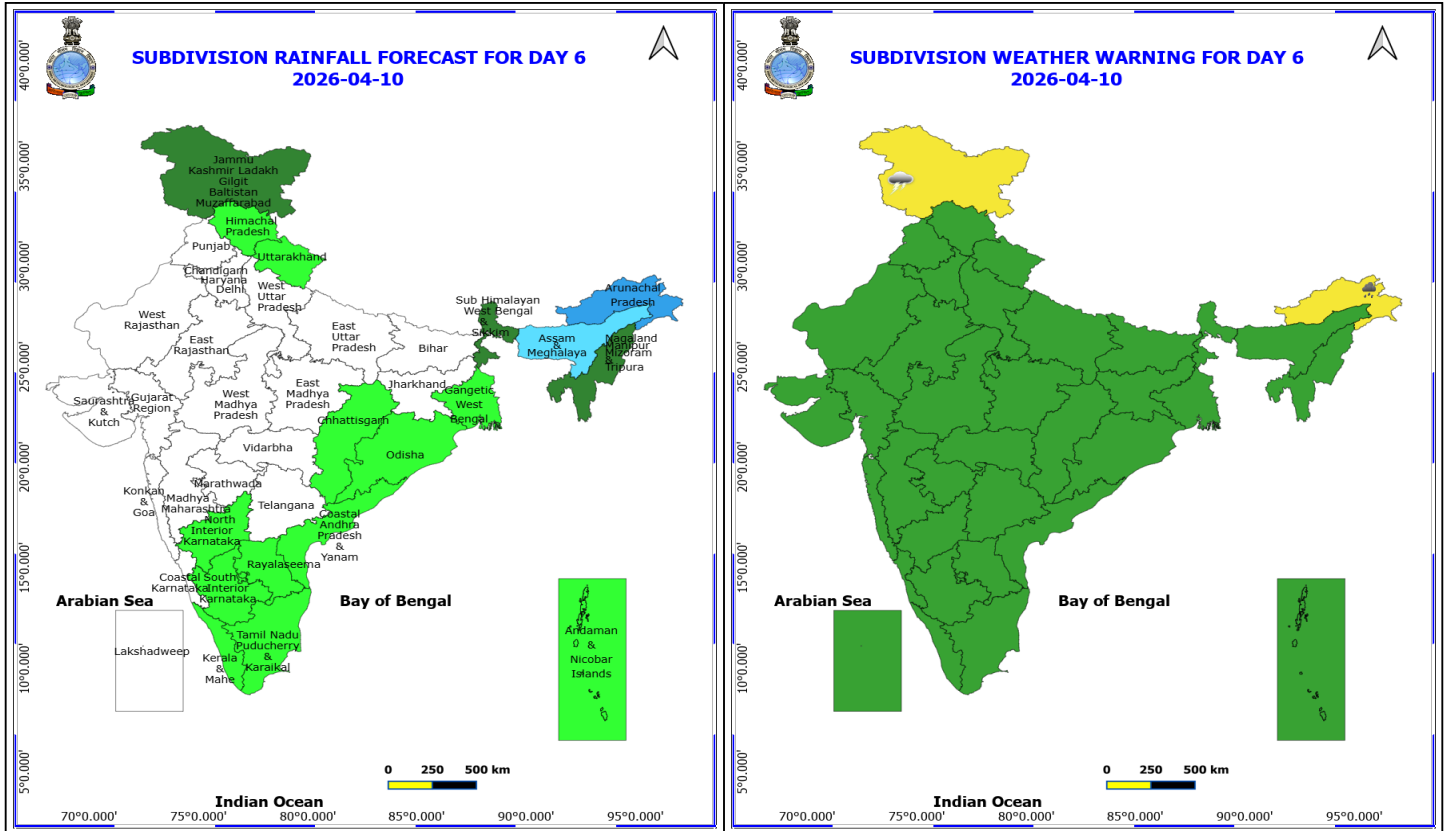
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**9 April (Day 5)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh.
- ❖ **Squally wind with speed 45 – 55 kmph gusting to 65 kmph** likely to prevail over Gulf of Khambhat.

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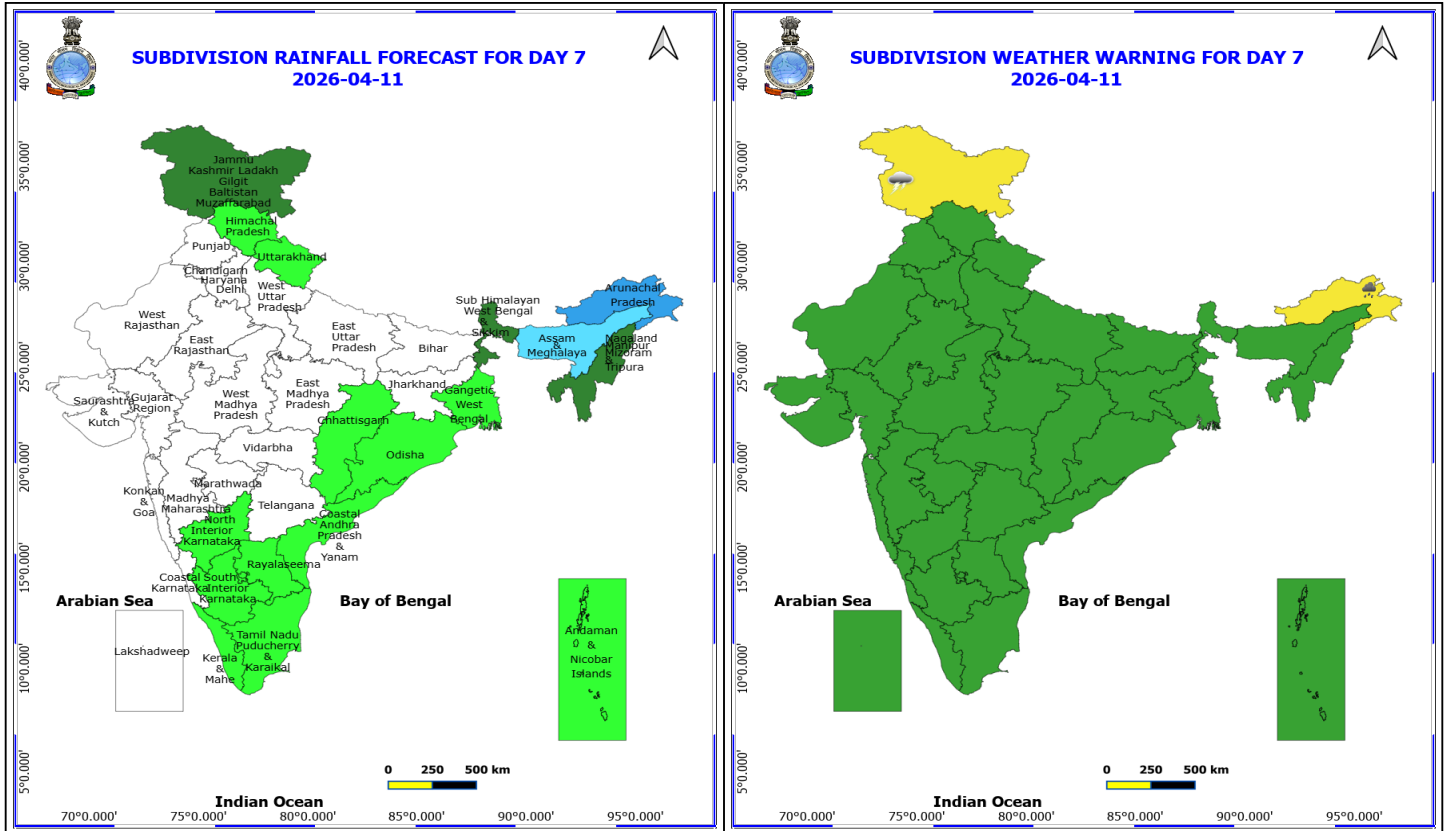


**10 April (Day 6)**

- ❖ Heavy Rainfall likely at isolated places over Arunachal Pradesh.
- ❖ Thunderstorm accompanied with lightning & gusty winds(40-50kmph) likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

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**11 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 Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

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## Table-1

### 7 Days Rainfall Forecast

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

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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Fig. 1: Maximum Temperatures Dated 2026-04-04

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

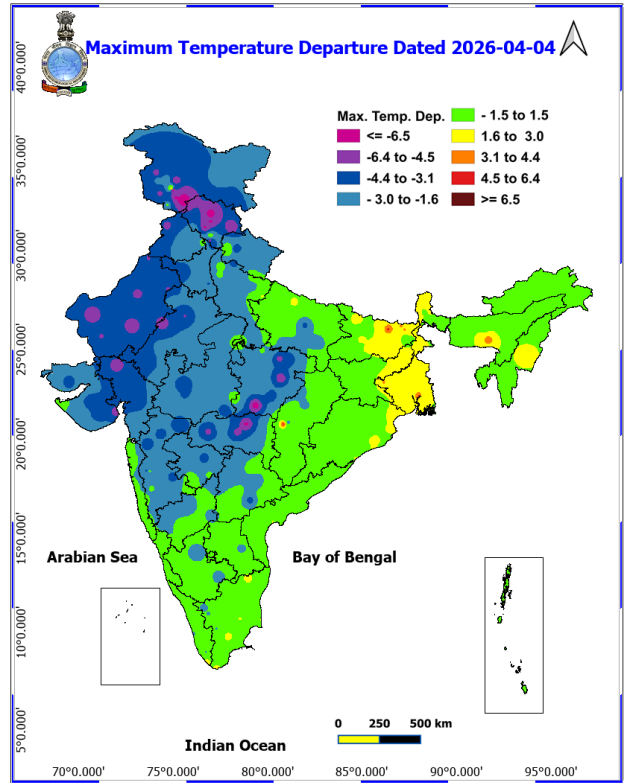
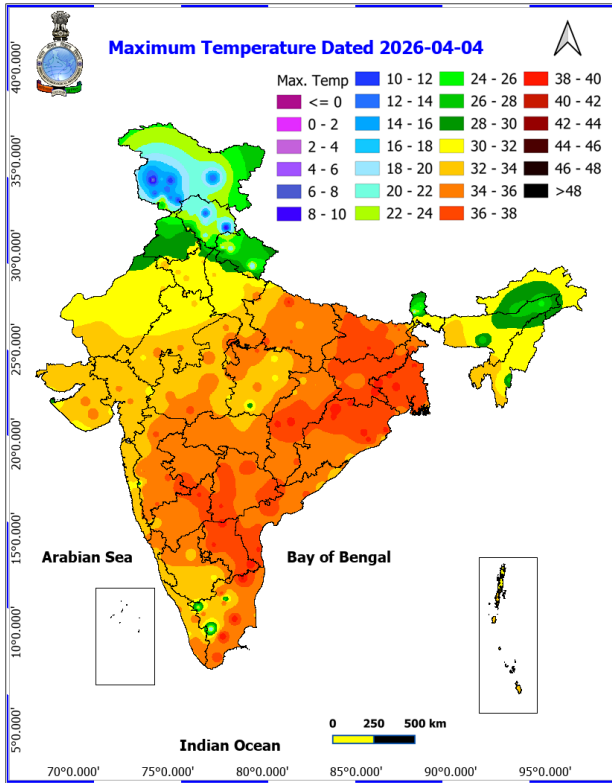
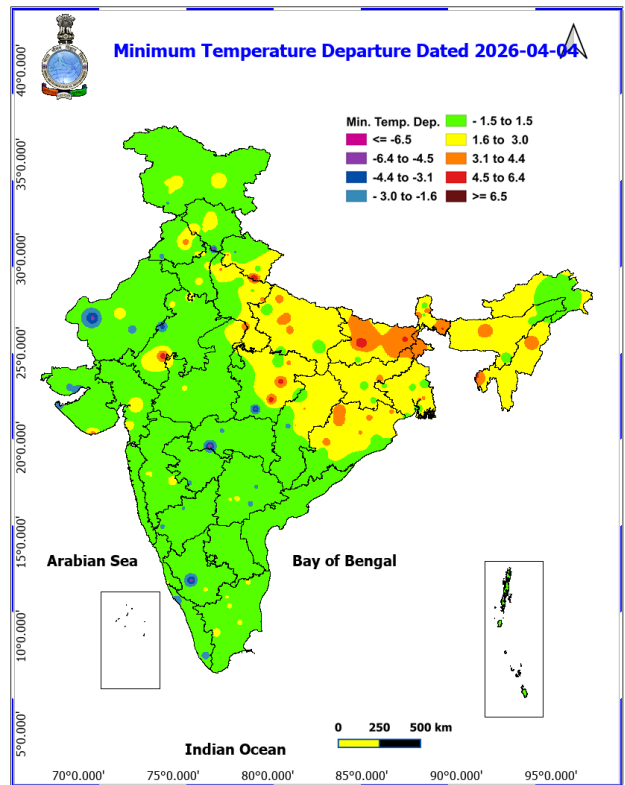
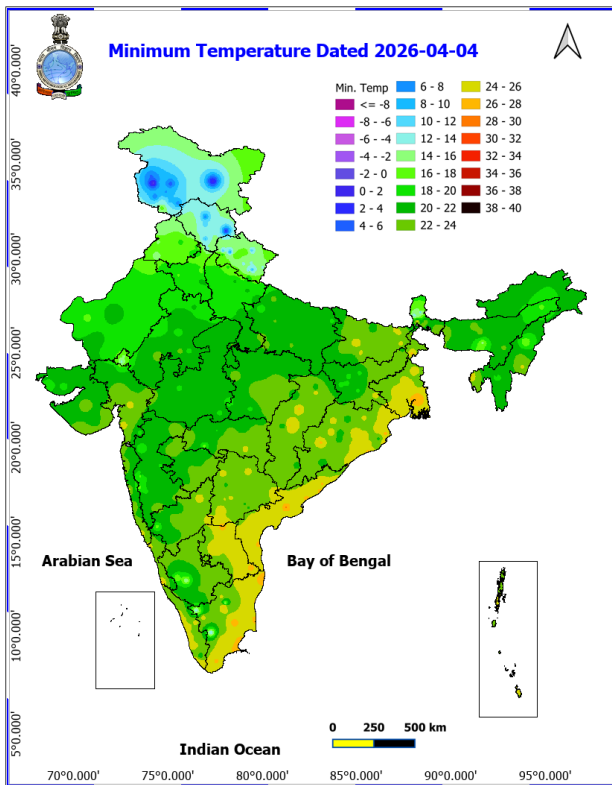
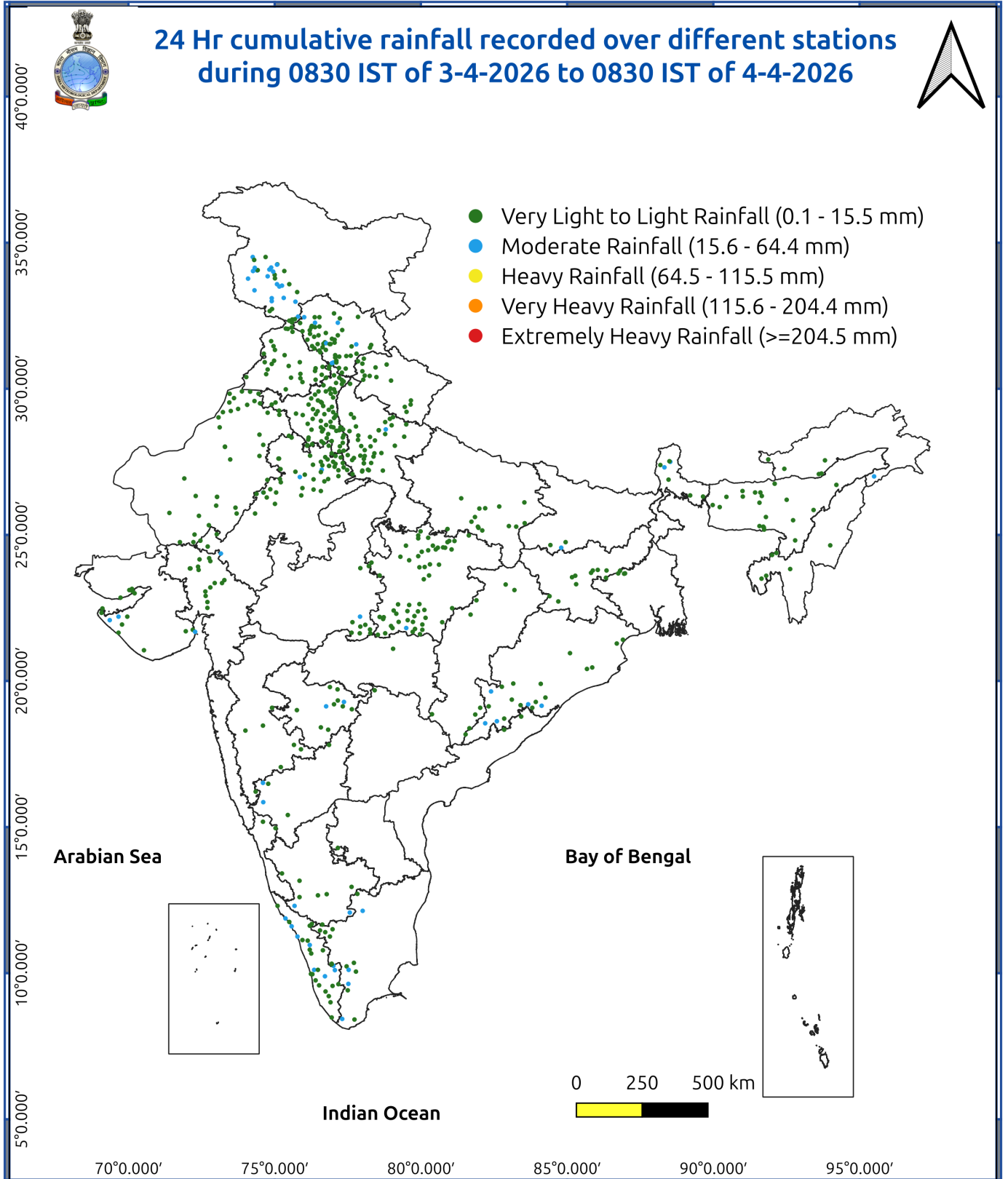


Fig. 3: Minimum Temperatures Dated 2026-04-04

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





## Impact and Actions

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

- **Isolated heavy rainfall** likely over Arunachal Pradesh on 05<sup>th</sup> & during 07<sup>th</sup> - 10<sup>th</sup>; Assam & Meghalaya on 05<sup>th</sup>, 08<sup>th</sup> & 09<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 08<sup>th</sup> -09<sup>th</sup> April.

### 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 kutchha 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** likely over Jammu-Kashmir, Sub-Himalayan West Bengal & Sikkim and Bihar on 07<sup>th</sup> & 08<sup>th</sup>; Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi on 07<sup>th</sup> & 08<sup>th</sup>; West Rajasthan on 06<sup>th</sup> & 07<sup>th</sup>; East Rajasthan on 05<sup>th</sup> & 07<sup>th</sup>; Gangetic West Bengal on 07<sup>th</sup>; Jharkhand 05<sup>th</sup> -07<sup>th</sup> April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Himachal Pradesh, Gangetic West Bengal on 07<sup>th</sup> & 08<sup>th</sup>, West Uttar Pradesh, West Rajasthan on 07<sup>th</sup>; East Uttar Pradesh 05<sup>th</sup> & 08<sup>th</sup> and East Rajasthan on 05<sup>th</sup> & 07<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 08<sup>th</sup>; Bihar on 07<sup>th</sup> & 08<sup>th</sup>; Jharkhand on 05<sup>th</sup> & 06<sup>th</sup> April.

### Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutchha 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.

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- 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

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, and Jharkhand.**
- Undertake harvesting of matured crops and fruits immediately and shift them to safer places.

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

- In **Jammu & Kashmir**, keep the harvested mustard, lentil and gram in safe places. Drain out excess rainwater from the standing crops. Provide staking to the pea vines for better crop stand against strong winds.
- In **Arunachal Pradesh**, postpone fresh sowing of summer Jhum rice, maize and vegetables. Harvest cabbage, pea, mustard, late-maturing paddy varieties & potatoes carefully and 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**, maintain proper drainage channels in the crop fields. Undertake sowing of black gram, okra ladyfinger and Olitorius jute as well as planting of banana, turmeric and ginger at optimum soil moisture conditions.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and cover the young vegetable seedlings. Carry out sowing of vegetables like carrot, okra, capsicum, etc., during clear weather.
- In **Kerala**, provide mechanical support to banana plants and staking to vegetables. Drain out excess rainwater from the standing crops.
- In **Tamil Nadu**, provide mechanical support for banana crops to prevent lodging. Undertake basin preparation for pepper, clove, nutmeg and cinnamon for better rain water harvest. Avoid pesticide and insecticide application during the period of moderate / heavy rainfall.

#### 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 and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

#### Legends & abbreviations:

#### Region wise classification of meteorological Sub-Divisions:

**Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.



**Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.

**East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

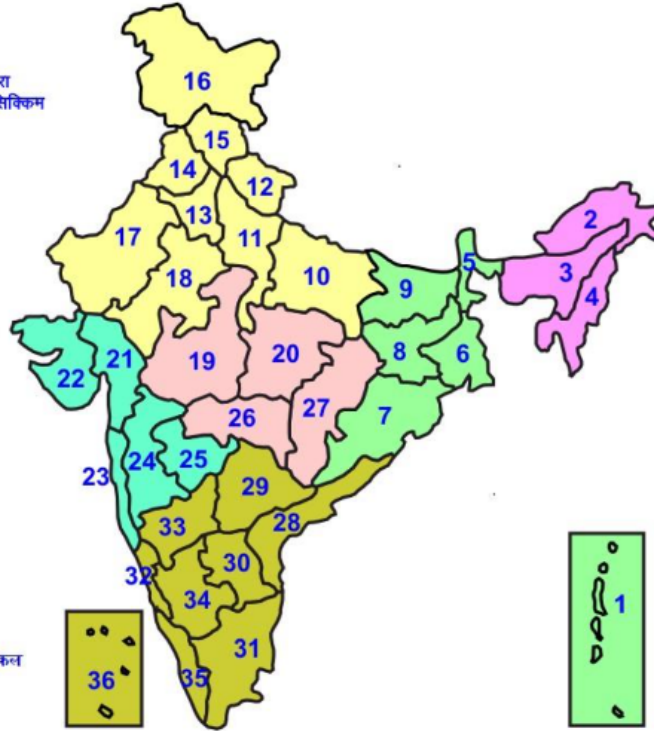
**Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

**West India:** Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (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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