

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

**Weather Forecast and Warnings**

**Northwest India:**

- **Widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 Kmph) likely over Jammu-Kashmir, Himachal Pradesh & Uttarakhand on 8<sup>th</sup> April; **Isolated to Scattered** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 Kmph) likely over Jammu-Kashmir during 09<sup>th</sup>-11<sup>th</sup> April, Himachal Pradesh & Uttarakhand on 09<sup>th</sup> April; **Isolated to scattered** light to moderate rainfall with isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 Kmph) likely over Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh & East Rajasthan on 08<sup>th</sup> April.
- **Isolated hailstorm activity** also likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi and Uttar Pradesh on 8<sup>th</sup> April.

**Northeast India:**

- **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph) likely over Northeast India during next 5 days.
- **Isolated heavy rainfall** likely over Arunachal Pradesh on 09<sup>th</sup> & 12<sup>th</sup>; Assam & Meghalaya 9<sup>th</sup> & 10<sup>th</sup> and Tripura on 8<sup>th</sup> & 9<sup>th</sup> April.
- **Isolated hailstorm activity** also likely over Meghalaya on 8<sup>th</sup> & 9<sup>th</sup> April.

**East India:**

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph gusting to 60 kmph) likely over Sub-Himalayan West Bengal & Sikkim during 9<sup>th</sup> -12<sup>th</sup>; Gangetic West Bengal, Bihar and Jharkhand on 9<sup>th</sup>; Odisha on 9<sup>th</sup> & 10<sup>th</sup> April.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Gangetic West Bengal on 08<sup>th</sup> April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Jharkhand and Odisha on 08<sup>th</sup> April.
- **Isolated Hailstorm activity** likely over West Bengal, Sikkim, Bihar, Jharkhand, Odisha on 8<sup>th</sup> April.
- **Isolated heavy rainfall** likely over West Bengal & Sikkim and Odisha on 8<sup>th</sup> April.

**Central India:**

- **Isolated to scattered** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 40-50 kmph) likely over Madhya Pradesh on 8<sup>th</sup>; Chhattisgarh during 8<sup>th</sup> - 9<sup>th</sup> April.
- **Isolated Hailstorm activity** likely over Madhya Pradesh & Chhattisgarh on 8<sup>th</sup> April.

**South Peninsular India:**

- **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 40-50 kmph) likely over Coastal Andhra Pradesh & Yanam, Rayalaseema on 8<sup>th</sup> with lightning over Tamil Nadu and Telangana on 8<sup>th</sup> April.

**Hot & Humid weather Warnings:**

- **Hot & humid conditions** very likely to prevail in isolated pockets over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 8<sup>th</sup> & 9<sup>th</sup>; Konkan & Goa on 10<sup>th</sup> & 11<sup>th</sup> and coastal areas of Gujarat state during 11<sup>th</sup> -14<sup>th</sup>; Odisha during 12<sup>th</sup> -14<sup>th</sup>; Coastal Karnataka during 9<sup>th</sup> -11<sup>th</sup> April

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**Forecast of maximum/day temperatures:**

- No significant change in maximum temperatures likely over Western Himalayan Region during next 24 hours, thereafter Gradual rise in maximum temperatures by 6-8 °C likely over region during 09<sup>th</sup> -14<sup>th</sup> April.
- No significant change in maximum temperatures likely over plains Northwest India during next 24 hours except Uttar Pradesh where it will fall by 2-4 °C, thereafter gradual increase likely by 8-10 °C over the region during 09<sup>th</sup> -14<sup>th</sup> April.
- No significant change in maximum temperatures likely over Central India during next 24 hours and gradual rise by 3-5°C likely during 09<sup>th</sup> -14<sup>th</sup> April.
- No significant change in maximum temperatures likely over East India till 09<sup>th</sup>; thereafter gradual rise by 4-6°C likely during 10<sup>th</sup> --14<sup>th</sup> April.
- No significant change in maximum temperatures likely over Gujarat State during next 24 hours and gradual rise by 2-4°C during 09<sup>th</sup> -14<sup>th</sup> April.
- **Gradual rise** in maximum temperatures likely over Maharashtra by 2-3°C till 11<sup>th</sup> and no significant change during 12<sup>th</sup> -14<sup>th</sup> April.
- No significant change in maximum temperatures likely over rest parts of the country.
- **Overall, Day temperatures are likely to remain below normal to near normal over most part of northwest, central & east India during next 5 days and gradually become above normal thereafter.**

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### Main Weather Observations:

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

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Odisha:** Chilika (dist Khurda) 14; G B Nagar (dist Mayurbhanj) 8; Jhumpura (dist Keonjhar), Dhamnagar (dist Bhadrak), Bhadrak (dist Bhadrak) 5 Each; **Coastal Andhra Pradesh & Yanam:** Sompeta (dist Srikakulam) 9; **Sub Himalayan West Bengal & Sikkim:** Sankos Tea Estate (dist Alipurduar) 8; Newlands Tea Garden (dist Alipurduar) 7; Bhutanghat (dist Alipurduar) 6; Kumargram (dist Alipurduar) 5; **Assam & Meghalaya:** Dhemaji (dist Dhemaji) 7; Dhupdhara ARG (dist Goalpara) 6; **Uttarakhand:** Tehri (CWC) (dist Garhwal Tehri) 6; **Himachal Pradesh:** Rajgarh (dist Sirmaur), Sangraha (dist Sirmaur) 6 Each; Kotkhai (dist Shimla), Solan (dist Solan), Naina Davi (dist Bilaspur), Barthin (dist Bilaspur), Chuari (dist Chamba) 5 Each; **Haryana-Chandigarh-Delhi:** Pehowa (dist Kurukshetra) 6; Chandigarh IAF (dist Chandigarh) 5; **East Madhya Pradesh:** Orchha (dist Niwari) 5; **Punjab:** Bharatgarh (dist Rupnagar), Kotla (dist Rupnagar) 5 Each.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Odisha. **Heavy rain** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Haryana-Chandigarh-Delhi, Himachal Pradesh and Coastal Andhra Pradesh & Yanam.

- **Very Heavy rainfall (12-20 cm)** has been recorded at isolated places over Odisha
- **Heavy rainfall (7-11 cm)** has been recorded at isolated places over Himachal Pradesh, Assam, Sub-Himalayan West Bengal, Coastal Andhra Pradesh and Jammu & Kashmir.
- **Hailstorm activity** reported at isolated places over Uttarakhand, Assam, West Bengal & Sikkim, Jharkhand, Odisha, Punjab, West Uttar Pradesh and West Madhya Pradesh.
- **Thunderstorm accompanied with Squally/Gusty winds** with speed **30-80 kmph** prevailed at isolated places over Uttarakhand, Himachal Pradesh, Punjab, Haryana, West Rajasthan, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region, Saurashtra & Kutch, West Madhya Pradesh, East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Sub Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Jammu Kashmir Ladakh Gilgit Baltistan Muzaffarabad, West Uttar Pradesh, East Uttar Pradesh.

❖ **Minimum Temperature Departures (as on 08-04-2026):** were **above normal (1.6? to 3.0?)** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat State, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Madhya Maharashtra and West Madhya Pradesh; **appreciably below normal (-5.0°C to -3.1°C)** over Delhi, Rajasthan, Gangetic West Bengal, Odisha, Vidarbha, Telangana; **below normal (-3.0? to -1.6?)** over Punjab, Haryana, Uttar Pradesh, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tripura and near normal over rest parts of the country. **The lowest minimum temperature of 12.2 °C is observed at Bathinda (Punjab) over the Plains of India.**

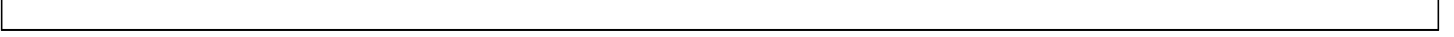
❖ **Maximum Temperature Departures (as on 07-04-2026):** **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at few places over Sub Himalayan West Bengal & Sikkim and Lakshadweep; at isolated places over Odisha, Bihar, Telangana, Rayalaseema, South Interior Karnataka and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka; at most places over Andaman & Nicobar Islands; at few places over East Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Madhya Maharashtra, Chhattisgarh and North Interior Karnataka; at isolated places over Gangetic West Bengal, West Uttar Pradesh, Himachal Pradesh, East Rajasthan, Saurashtra & Kutch, Marathwada and Vidarbha. **The highest maximum temperature of 42.2°C was reported at VELLORE-OBS (TAMIL NADU).**

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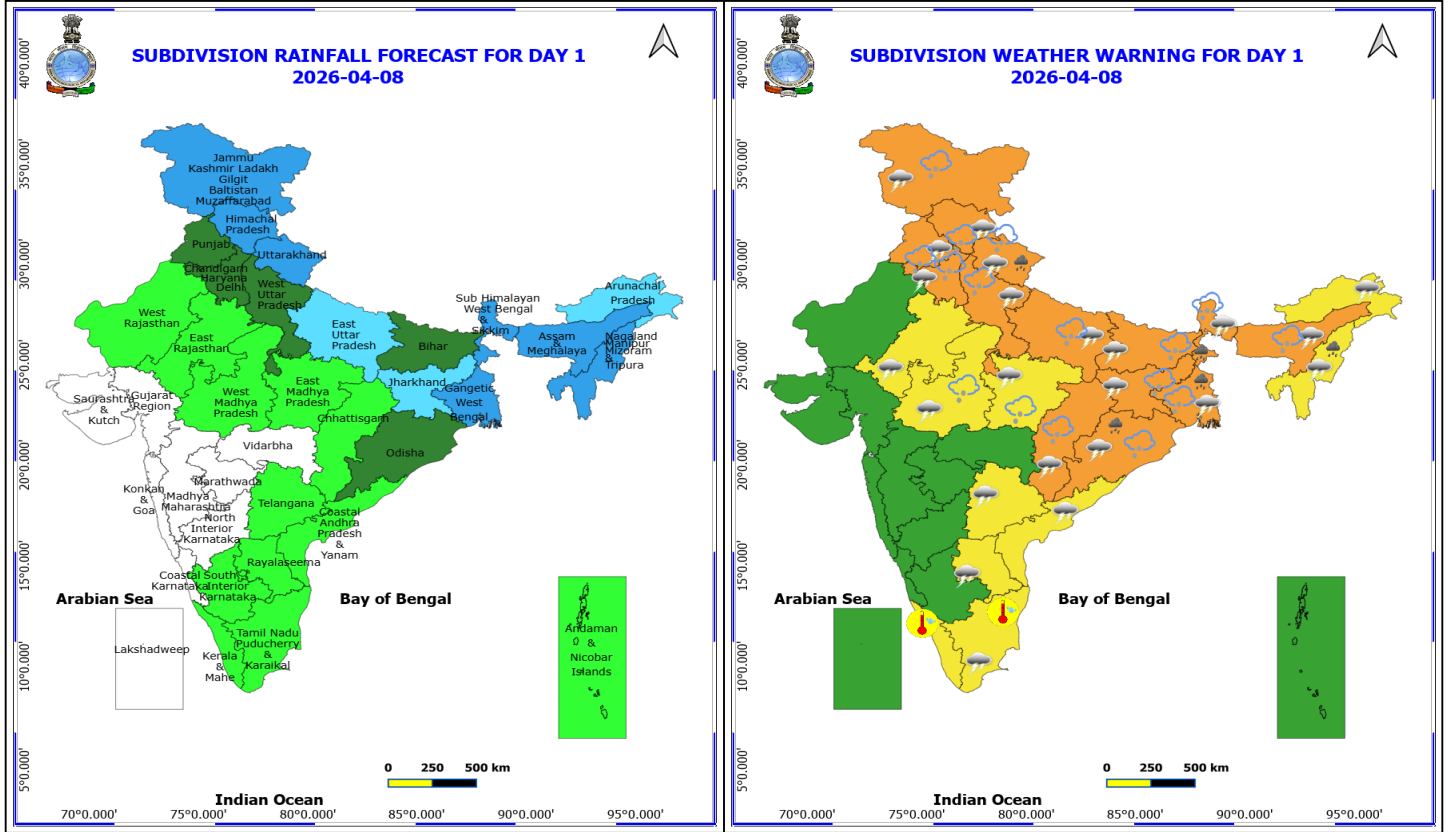
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**Meteorological Analysis (Based on 0830 hours IST)**

- The **Western Disturbance as a cyclonic circulation** over north Pakistan adjoining Jammu & Kashmir persists and now seen between 3.1 & 9.6 km above mean sea levels.
- The **upper air cyclonic circulation** over northeast Rajasthan & neighbourhood now lies over northwest Uttar Pradesh & neighbourhood and extends upto 3.1 km above mean sea level.
- An east-west **trough** runs from northwest Uttar Pradesh to Manipur across Bihar, Sub-Himalayan West Bengal, North Bangladesh, Meghalaya, South East Assam and extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over East Uttar Pradesh extending upto 1.5 km above mean sea level merged with the above trough.
- An **upper air cyclonic circulation** lies over southwest Rajasthan & adjoining south Pakistan and extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over central Assam & neighbourhood persists and seen at 1.5 km above mean sea level, however trough aloft in westerlies has become less marked.
- An **upper air cyclonic circulation** lies over Chhattisgarh & neighbourhood at 0.9 km above mean sea level.
- A **north-south trough/wind discontinuity runs** from the above cyclonic circulation over Chhattisgarh & neighbourhood to **Gulf of Mannar** across Telangana, Rayalaseema, interior Tamilnadu at 0.9 km above mean sea level.
- The **trough/wind discontinuity** from **Gangetic West Bengal** to **Gulf of Mannar** has merged with the above trough.
- **Subtropical westerly Jet Stream** with core winds of the order of 125 knots at 12.6 km above mean sea level prevails over North India.
- A fresh **Western Disturbance** is likely to affect Western Himalayan Region from 11<sup>th</sup> April, 2026.
- The **induced upper air cyclonic circulation** over central Pakistan extending upto 1.5 km above mean sea level has become less marked.



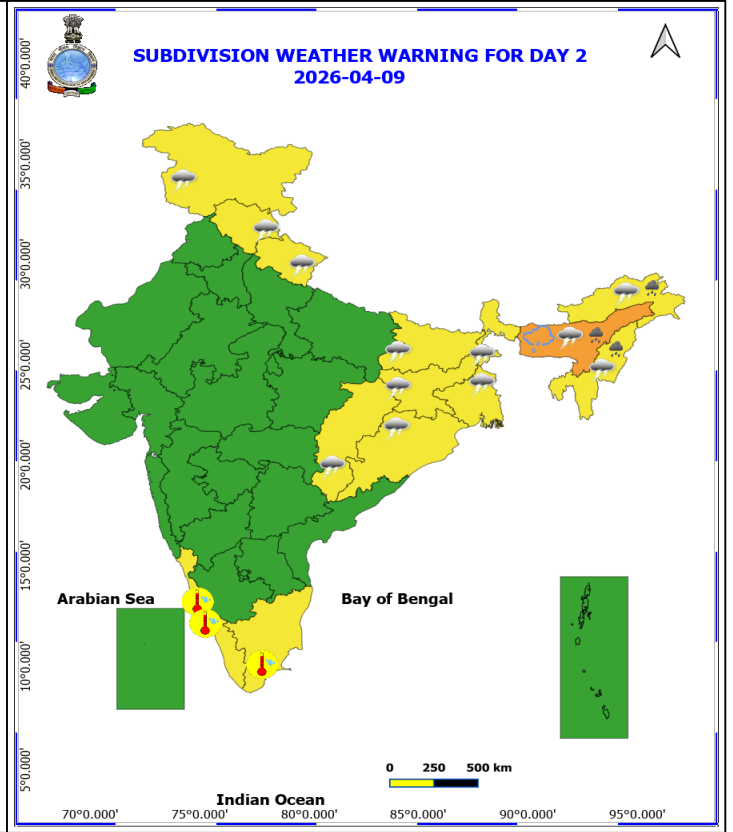
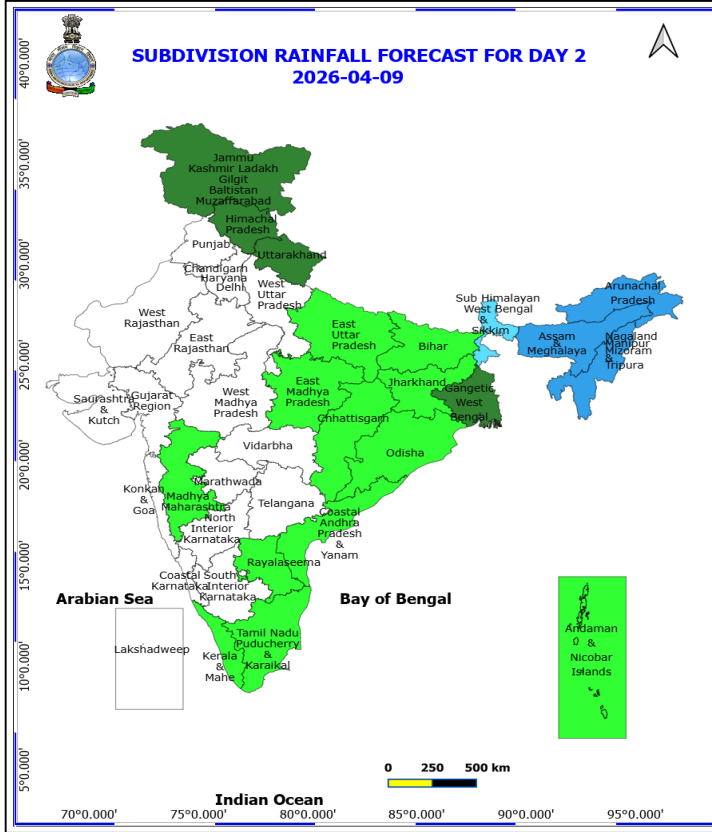
**8 April (Day 1)**

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

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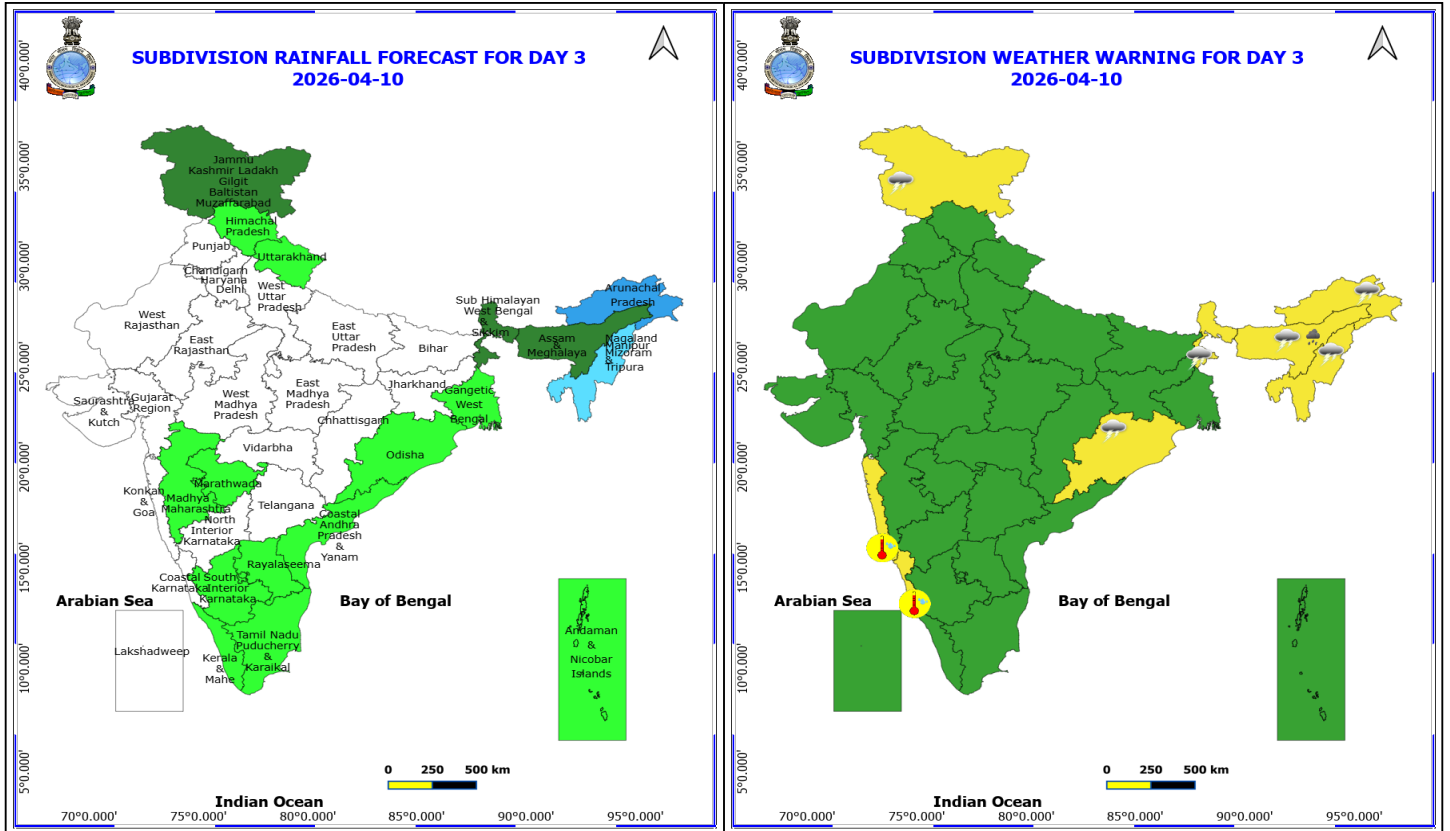
- ❖ **Squally weather with wind speed 40 – 50 kmph gusting to 60 kmph** likely to prevail over along and off Gangetic west Bengal adjoining north Odisha coasts.
- ❖ **Squally wind with speed 45 – 55 kmph gusting to 65 kmph** likely to prevail over Gulf of Khambhat.



## 9 April (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffargarh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Bihar, Chhattisgarh, Gangetic West Bengal, Himachal Pradesh and Uttarakhand.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Karnataka, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

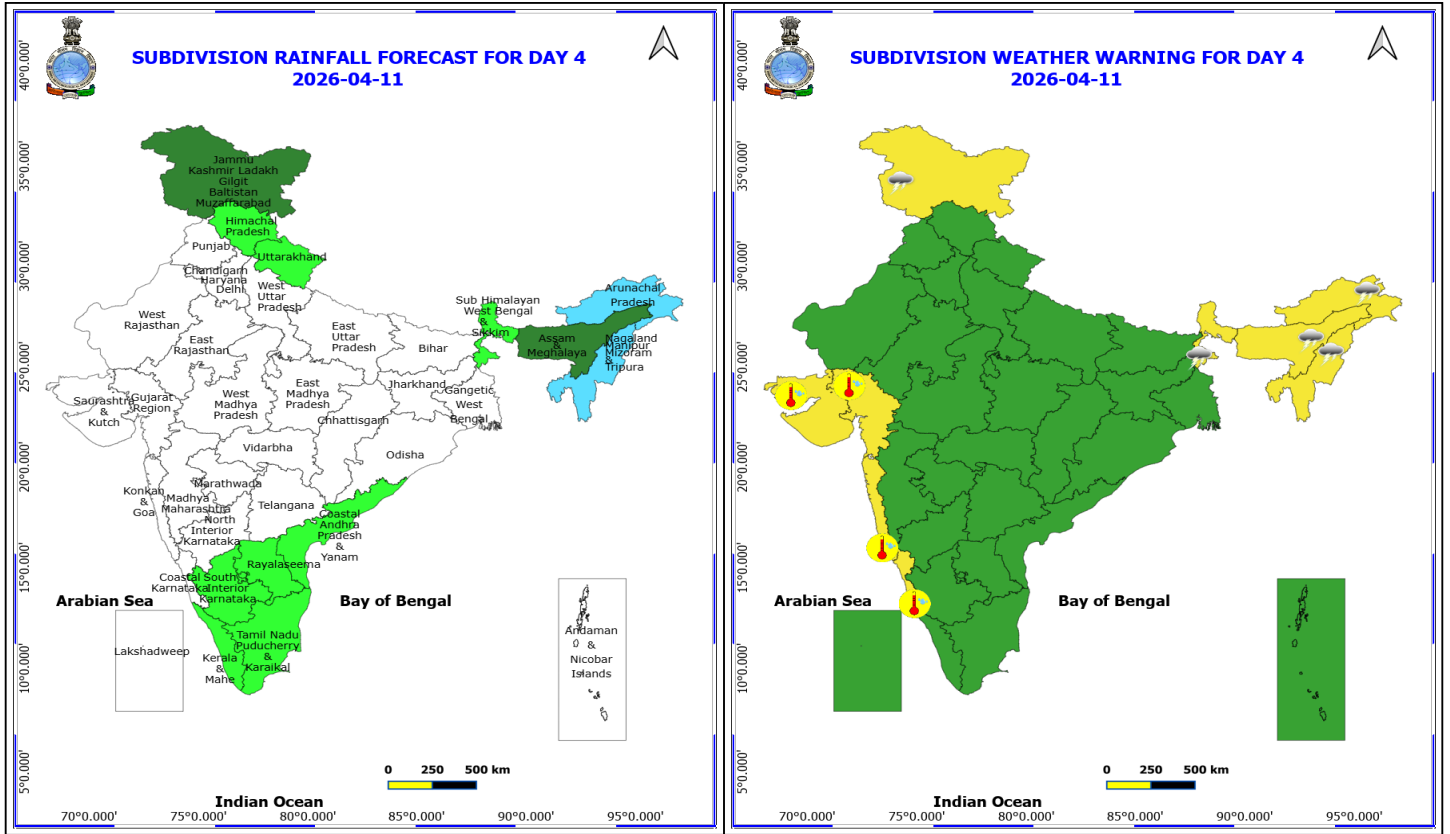
**No Fishermen Warning**



**10 April (Day 3)**

- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Karnataka and Konkan & Goa.

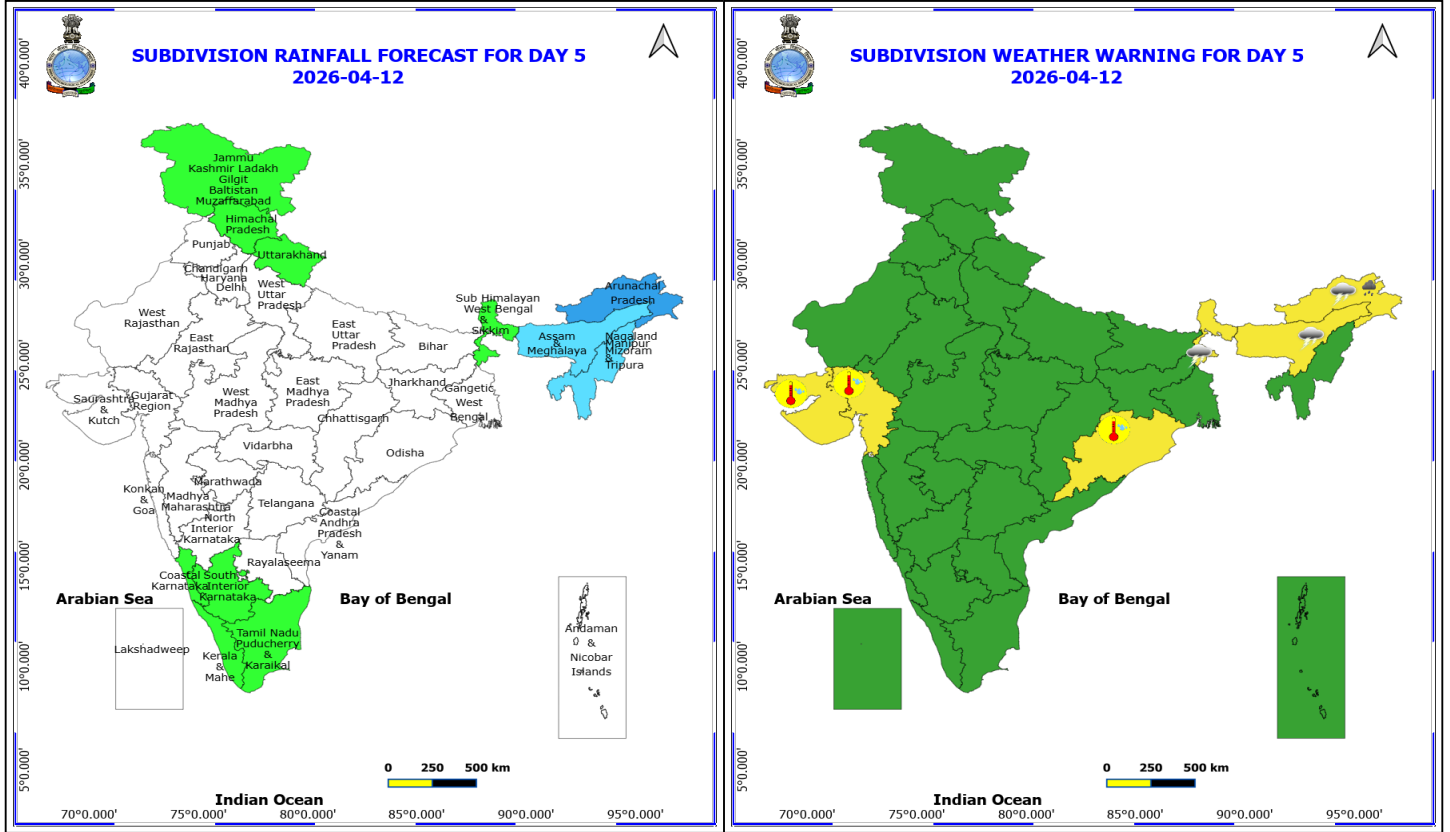
**No Fishermen Warning**



**11 April (Day 4)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Karnataka, Gujarat State and Konkan & Goa.

**No Fishermen Warning**

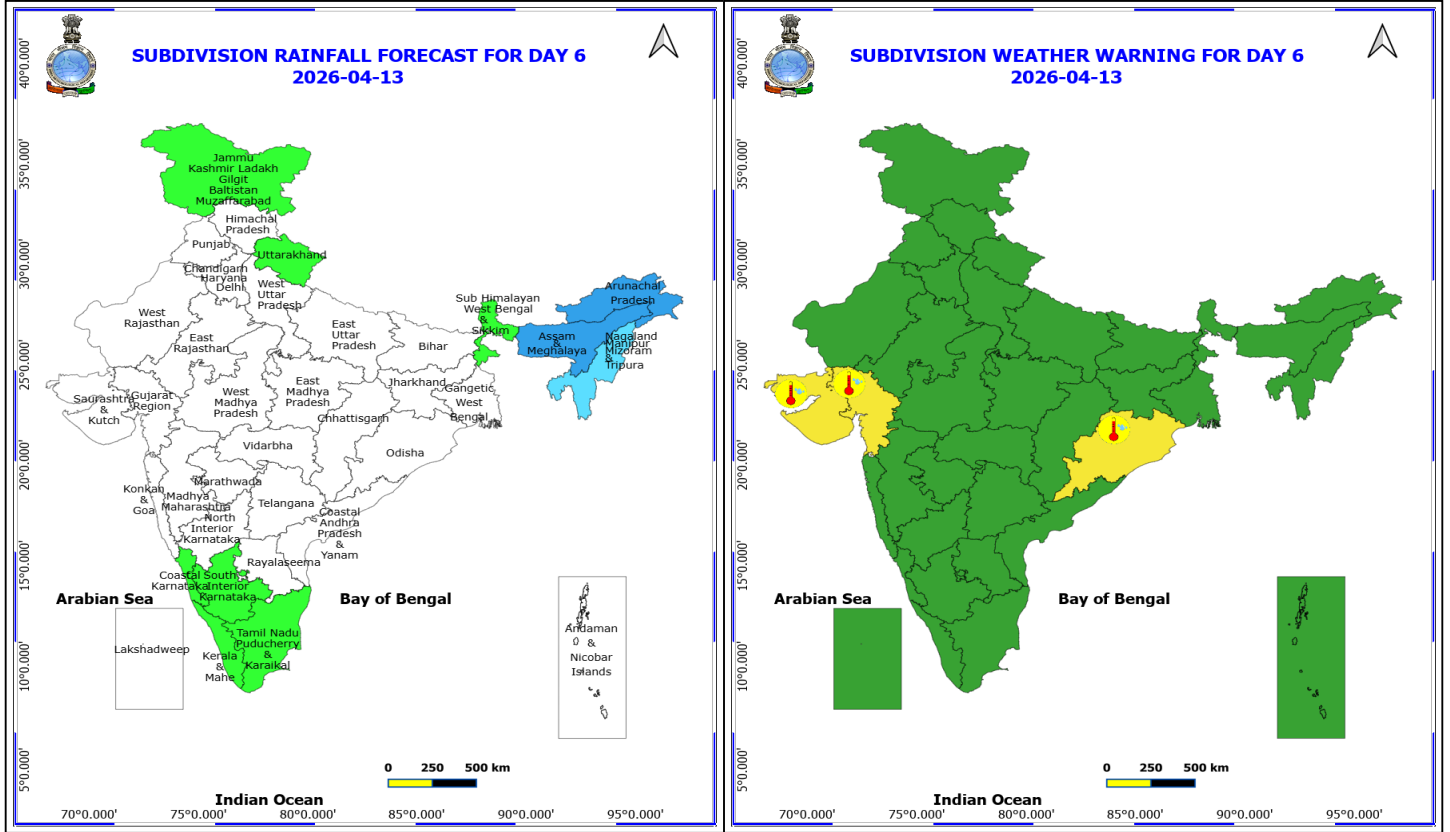


**12 April (Day 5)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Hot and Humid weather** likely at isolated places over Gujarat State and Odisha.

**No Fishermen Warning**

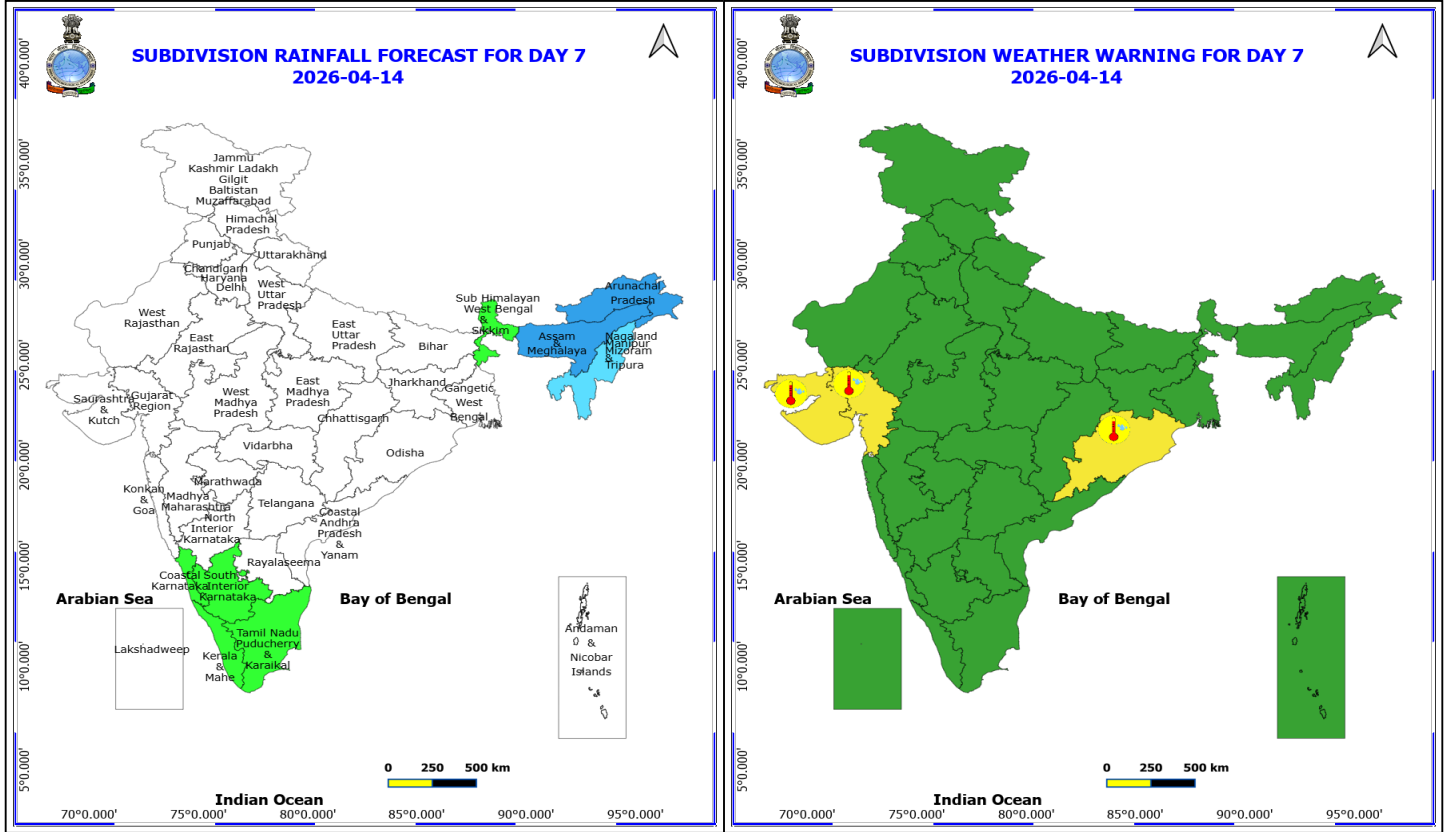
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**13 April (Day 6)**

❖ Hot and Humid weather likely at isolated places over Gujarat State and Odisha.

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14 April (Day 7)

❖ Hot and Humid weather likely at isolated places over Gujarat State and Odisha.

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**Table-1**

**7 Days Rainfall Forecast**

S.No.	Subdivision	8- Apr	9- Apr	10- Apr	11- Apr	12- Apr	13- Apr	14- Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	FWS	WS	WS	FWS	WS	WS	WS
3	ASSAM & MEHGHALAYA	WS	WS	SCT	SCT	FWS	WS	WS
4	N. M. M. & T.	WS	WS	FWS	FWS	FWS	FWS	FWS
5	S.H. WEST BENGAL & SIKKIM	WS	FWS	SCT	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	WS	SCT	ISOL	DRY	DRY	DRY	DRY
7	ODISHA	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
8	JHARKHAND	FWS	ISOL	DRY	DRY	DRY	DRY	DRY
9	BIHAR	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	FWS	ISOL	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	SCT	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	WS	SCT	ISOL	ISOL	ISOL	ISOL	DRY
13	HARYANA, CHD & DELHI	SCT	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	SCT	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	WS	SCT	ISOL	ISOL	ISOL	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	WS	SCT	SCT	SCT	ISOL	ISOL	DRY
17	WEST RAJASTHAN	ISOL	DRY	DRY	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	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
29	TELANGANA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	ISOL	ISOL	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 2026-04-07

Fig. 2: Departure of Maximum Temp. Dated 2026-04-07

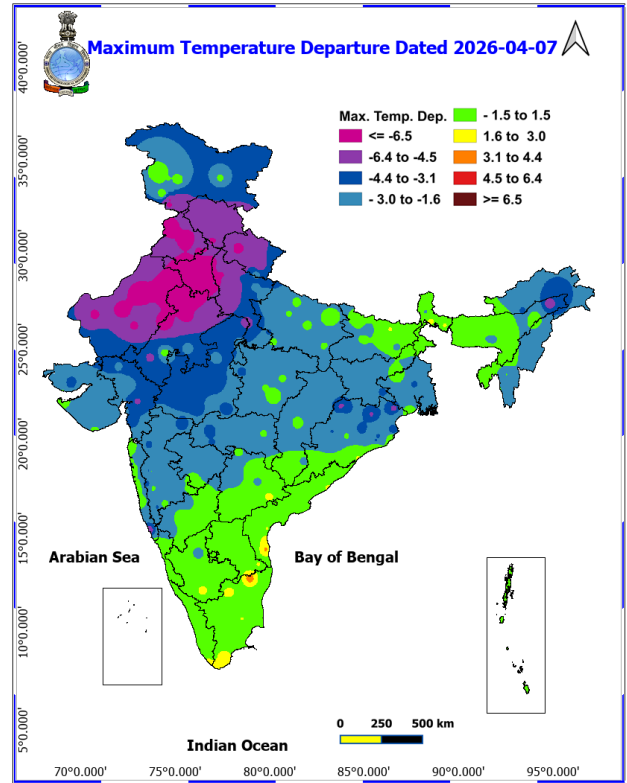
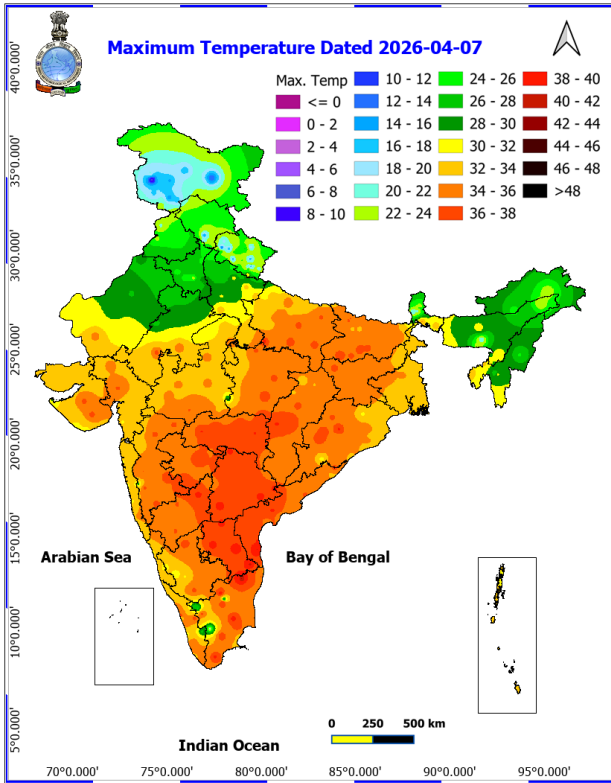
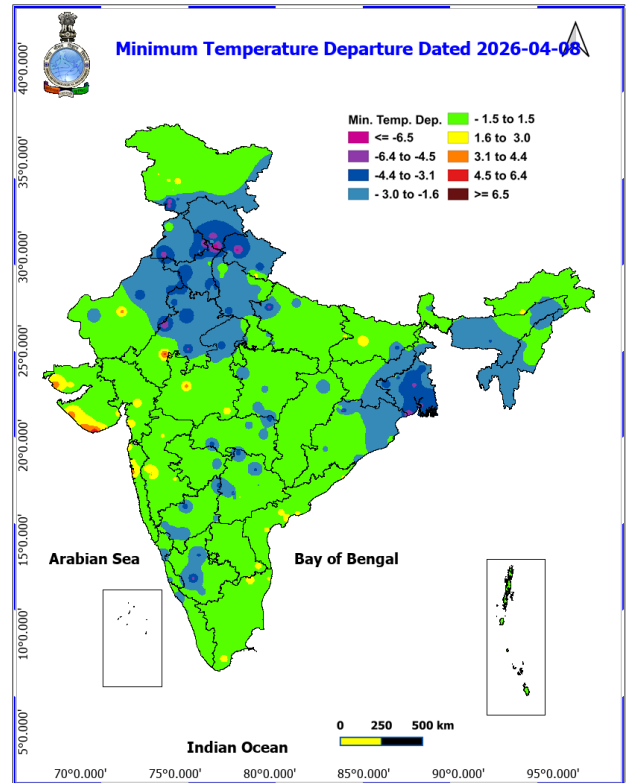
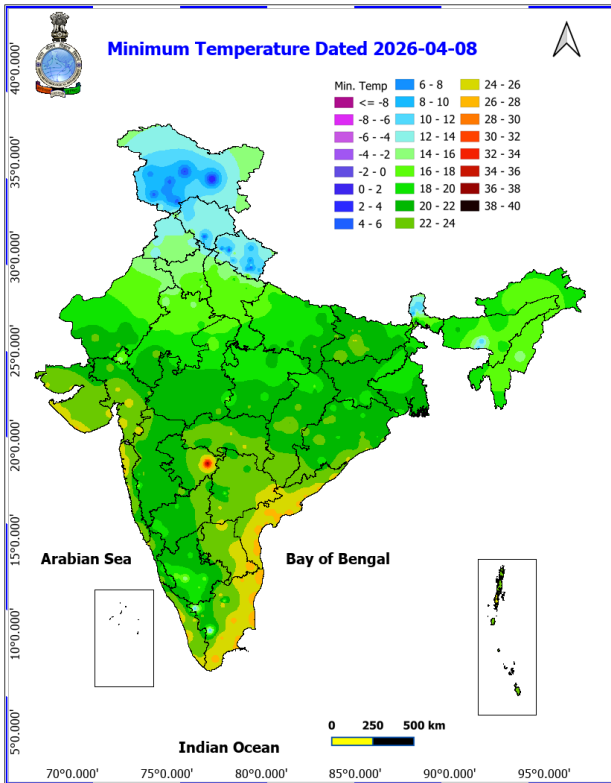


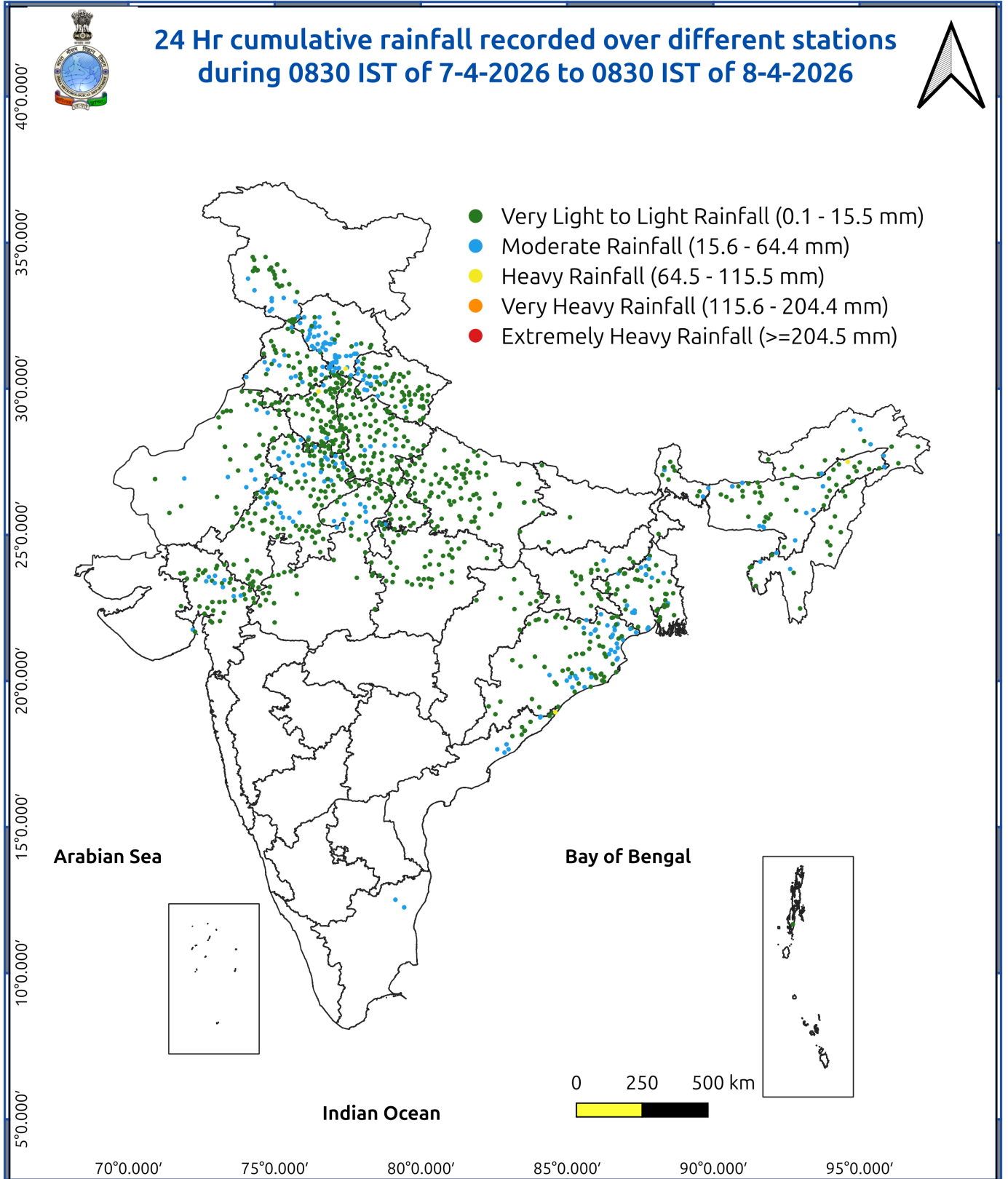
Fig. 3: Minimum Temperatures Dated 2026-04-08

Fig. 4: Departure of Minimum Temp. Dated 2026-04-08



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## Impact and Actions

### Impact & suggested due to Extremely and heavy to very heavy rainfall over

- **Isolated heavy rainfall** likely over Arunachal Pradesh on 09<sup>th</sup> & 12<sup>th</sup>; Assam & Meghalaya 9<sup>th</sup> & 10<sup>th</sup> and Tripura on 8<sup>th</sup> & 9<sup>th</sup>; West Bengal & Sikkim and Odisha on 8<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 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** also likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi and Uttar Pradesh on 8<sup>th</sup>; Meghalaya on 8<sup>th</sup> & 9<sup>th</sup>; West Bengal, Sikkim, Bihar, Jharkhand, Odisha on 8<sup>th</sup>; West Madhya Pradesh & Chhattisgarh on 8<sup>th</sup> April.
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Gangetic West Bengal on 08<sup>th</sup> April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Jharkhand and Odisha on 08<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 kutcha houses/walls and huts.
- Loose objects may fly.

### Action Suggested

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.

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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 **West Bengal & Sikkim, Odisha, Jharkhand, Bihar, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, West Madhya Pradesh and Chhattisgarh.**
- Undertake harvesting of matured crops, fruits and vegetables immediately and shift them to safer places.

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

- In **Arunachal Pradesh**, ensure proper drainage channels in the fields of rice, maize, other standing crops, vegetables and orchards. Harvest cabbage, pea, mustard, late-maturing paddy varieties & potatoes carefully and shift the harvested produce to safe places.
- In **Assam**, make necessary arrangements to remove excess rainwater from the crop fields.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and cover the young vegetable seedlings.
- In **West Bengal**, harvest matured crops and vegetables immediately and store them in a dry, safe place to prevent damage. Drain out excess rainwater from the standing crop and vegetable fields.
- In **Odisha**, keep the harvested produce of green gram, black gram, mustard, groundnut and black pepper in the safe places. Drain out excess rainwater from the standing crops, vegetables and fruit orchards.

#### 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:**

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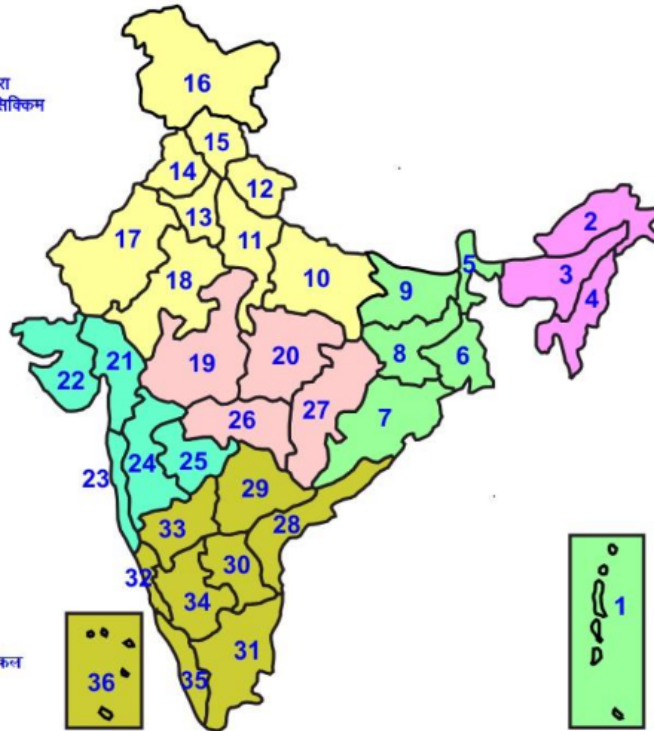
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Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## 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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