

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

WEATHER FORECAST AND WARNING:

Northwest India:

- **Fairly widespread to widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 28th-31st March; Himachal Pradesh during 28th -30th March and on 2nd and 03rd April Uttarakhand during 29th - 31st March.
- **Isolated to Scattered** light to moderate rainfall with thunderstorm, lightning & gusty winds speed reaching (30-50 kmph gusting to 60 kmph) likely over Punjab during 28th-30th; Haryana, Chandigarh & Delhi and West Uttar Pradesh and Rajasthan during 29th-31st; East Uttar Pradesh on 30th & 31st March.
- **Isolated heavy rainfall/snowfall** likely over Kashmir valley on 30th March.
- **Isolated hailstorm activity** also likely over Jammu-Kashmir and West Rajasthan on 29th; Himachal Pradesh, Punjab and Haryana Chandigarh & Delhi on 29th & 30th; Uttarakhand and East Rajasthan on 30th March.

Northeast India:

- **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Arunachal Pradesh during 28th March- 03rd April; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 28th March- 01st April.
- **Isolated heavy rainfall** likely over Arunachal Pradesh on 28th, 29th & during 31st March – 03rd April; Assam & Meghalaya on 28th, 29th, 31st March and 01st April; Mizoram on 29th & Tripura 28th & 29th March.

East 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 28th March- 01st April; Gangetic West Bengal on 31st March.
- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (40-50 gusting to 60 kmph)** likely over Bihar during 28th -31st March; Jharkhand on 28th, 29th and during 31st March -02nd April and Odisha during 28th March-01st April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Sub-Himalayan West Bengal & Sikkim and Bihar on 28th & 31st; Gangetic West Bengal, Jharkhand and Odisha on 28th March.
- **Isolated hailstorm activity** likely over West Bengal & Sikkim, Bihar, Jharkhand and Odisha on 28th March.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 28th & 31st March.

Central India:

- **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over West Madhya Pradesh during 29th March- 01st April; East Madhya Pradesh during 30th March -01st April; Vidarbha during 30th March -03rd April & Chhattisgarh during next 7 days.
- **Isolated hailstorm activity** likely over West Madhya Pradesh and Vidarbha on 30th March.

West India:

- **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Madhya Maharashtra and Marathwada during 29th March – 01st April; Gujarat State on 29th & 30th March; Coastal Maharashtra on 31st March- 01st April.
- **Isolated hailstorm activity** likely over Madhya Maharashtra and Marathwada on 30th & 31st March.

South Peninsular India:

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- **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds speed reaching (30-50 gusting to 60 kmph)** likely over Kerala & Mahe on 28th & 30th; Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka during 28th March – 01st April with **lightning** over Tamil Nadu on 29th March; Coastal Karnataka and Kerala & Mahe during 30th March-01st April.

Forecast of maximum/day temperatures:

- Rise in maximum temperatures by 2-4°C likely over many parts of Northwest India (except Uttar Pradesh) during next 24 hours; gradual fall by 3-4°C during 29th & 30th March and rise by 2-4°C during 31st March-03rd April.
- Rise in maximum temperatures by 3-5°C likely over Uttar Pradesh on 28th & 29th March; fall by 3-5°C on 30th & 31st March and rise by 2-4°C during 01st -03rd April.
- No significant change in maximum temperatures likely over Central India till 31st March and gradual fall by 2-3°C during 01st -03rd April.
- Gradual fall in maximum temperatures by 2-4°C likely over East India on 28th & 29th March and gradual rise by 3-5°C during 30th March – 3rd April.
- No significant change in maximum temperatures likely over Gujarat State during 24 hours; gradual fall by 2-3°C during 29th-31st March and no significant change during 01st -03rd April.
- No significant change in maximum temperatures likely over Maharashtra during 28th -31st March and gradual fall by 2-3°C during 01st -03rd 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 0830 hours IST of today): **at most places** over Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim; **at many places** over Gangetic West Bengal, Odisha and Bihar; **at a few places** over Jharkhand, Uttarakhand and North Interior Karnataka; **at isolated places** over Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, West Madhya Pradesh, East Madhya Pradesh, Madhya Maharashtra, Marathwada, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka and Kerala & Mahe; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Assam & Meghalaya**: Mawkyrwat (dist South West Khasi Hills) 13; Bhaghmara (dist South Garo Hills) 10; Dhubri CWC (dist Dhubri) 9; Williamnagar AWS (dist East Garo Hills), Mawsynram (dist East Khasi Hills), Cherrapunji (dist East Khasi Hills), Cherrapunji(rkm) (dist East Khasi Hills) 8 Each; Dhubri IMD (dist Dhubri) 5; **Sub Himalayan West Bengal & Sikkim**: Mangan (dist Mangan) 8; Maynaguri College (dist Jalpaiguri) 7; Shipgyar (dist Mangan), Singhik (dist Mangan) 6 Each; Amfu Pundibari (dist Cooch Behar) 5; **North Interior Karnataka**: Annigere Ars (dist Dharwad) 7; **Jharkhand**: Rajmahal (dist Sahibganj) 6; **Kerala & Mahe**: Padannakkad AWS (dist Kasargod) 5; **Bihar**: Raniganj (dist Araria), Baisi (dist Purnea) 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 Assam & Meghalaya. **Heavy rain** at isolated places over Sub Himalayan West Bengal & Sikkim and North Interior Karnataka.

❖ **Hailstorm activity (from 0830 hours IST of yesterday to 0830 hours IST of today)**: reported at isolated places over Uttarakhand and Bihar.

❖ **Minimum Temperature Departures (as on 28-03-2026)**: **markedly above normal(> 5.1°C)** at isolated places over West Rajasthan and Madhya Maharashtra. **appreciably above normal(3.1°C to 5.0°C)** at few places over West Uttar Pradesh and Gujarat Region; at isolated places over Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at most places over Lakshadweep; at few places over Nagaland, Manipur, Mizoram & Tripura, Haryana-Chandigarh-Delhi, Punjab, East Madhya Pradesh, Marathwada, Vidarbha, Telangana, South Interior Karnataka and Kerala & Mahe; at isolated places over Odisha, East Uttar Pradesh, West Madhya Pradesh, Konkan & Goa, Chhattisgarh and Rayalaseema. **The lowest minimum temperature** of 10.0°C was reported at **Bhatinda (Punjab)** over the Plains of India.

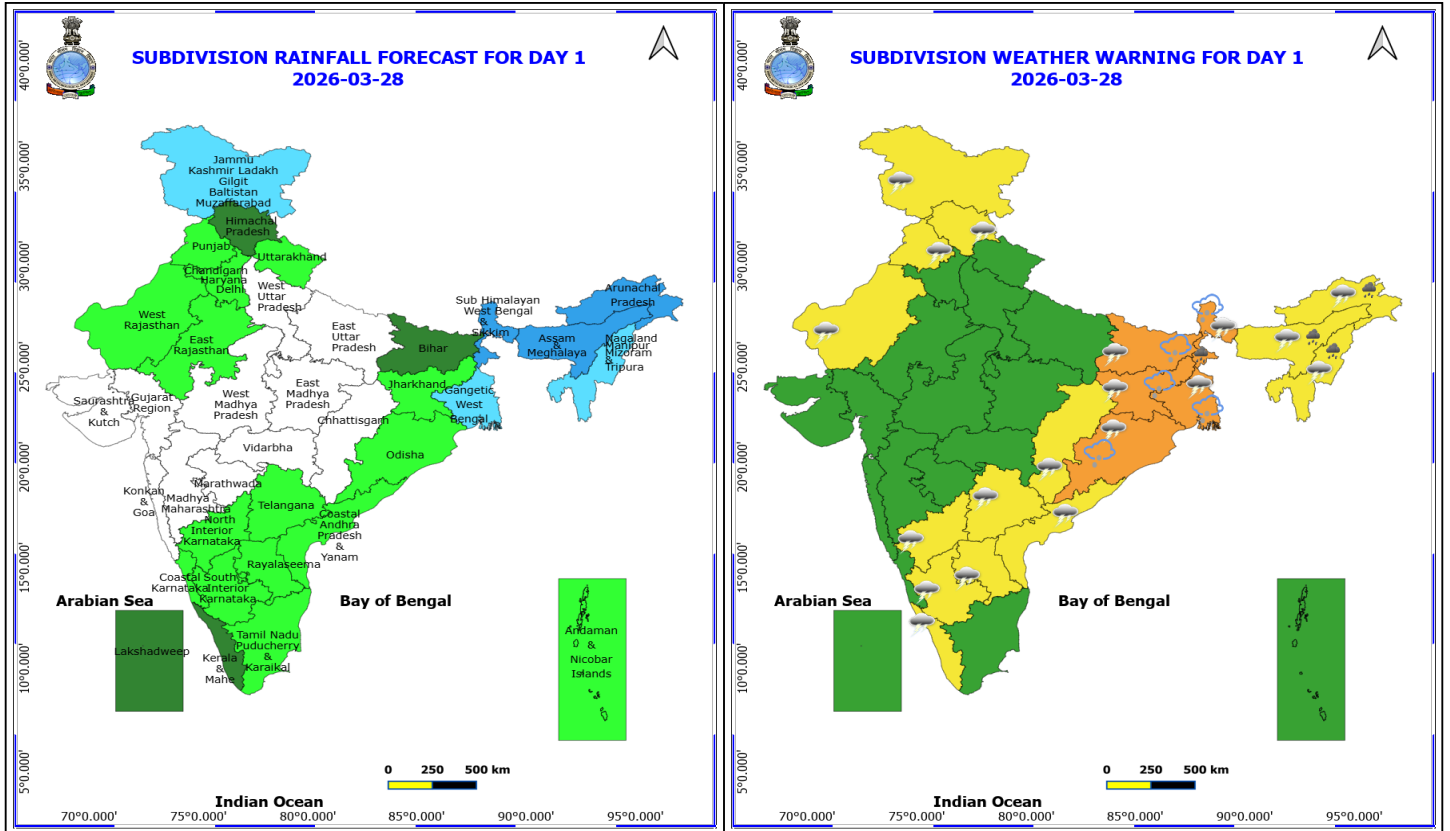
❖ **Maximum Temperature Departures (as on 27-03-2026)**: were **markedly above normal (5.1°C or more)** at isolated places over Jammu & Kashmir; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Konkan & Goa; at isolated places over East Madhya Pradesh, Gangetic West Bengal, West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Coastal Karnataka; at a few places over South Interior Karnataka, Vidarbha; at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Himachal Pradesh, Kerala & Mahe, Odisha, Rayalaseema, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Telangana. **The highest maximum temperature** of 41.5°C was reported at KURNOOL (ANDHRA PRADESH).

Meteorological Analysis (Based on 0830 hours IST)

- The **trough in westerlies** in lower to upper tropospheric levels between 3.1 & 9.4 km above mean sea level runs roughly along Long. 86°E to the north of Lat. 23°N.
- The **Western Disturbance** as an **upper air cyclonic circulation** over west Iran & neighbourhood now lies over North Iran & adjoining Caspian sea between 3.1 & 9.4 km above mean sea level.
- The **upper air cyclonic circulation** over central Assam & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over north Bangladesh & neighbourhood now lies over Sub-Himalayan West Bengal & neighbourhood at 0.9 km above mean sea level.
- A **trough/Wind discontinuity** runs from Gangetic West Bengal to south Tamil Nadu across Odisha, Chhattisgarh, Telangana and Interior Karnataka at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over north Odisha & neighbourhood at 0.9 km above mean sea level has merged with the above trough/Wind discontinuity.
- The trough from Marathwada to Coastal Karnataka at 0.9 km above mean sea level has merged with the above trough/Wind discontinuity.
- An **upper air cyclonic circulation** lies over South Interior Karnataka & neighbourhood at 1.5 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 90 knots at 12.6 km above mean sea level continues to prevail over Northeast India.
- A fresh **Western Disturbance** is likely to affect Northwest India from 02nd April, 2026.
- The **trough** from northwest Rajasthan to southwest Madhya Pradesh at 1.5 km above mean sea level has become less marked.

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.



28 March (Day 1)

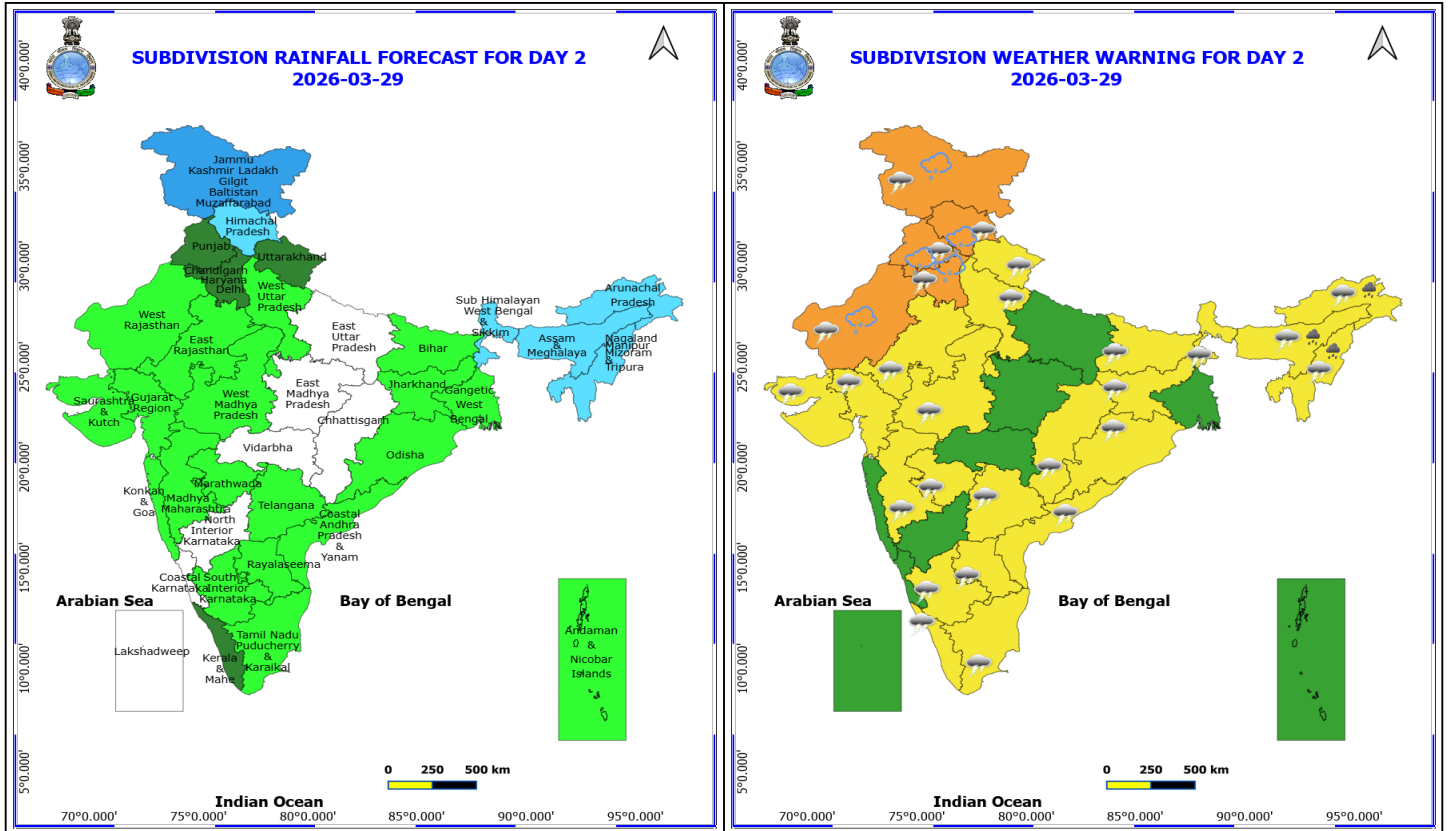
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Bihar, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Chhattisgarh, Interior Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over West Rajasthan.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** is likely to prevail along and off north Odisha and West Bengal coasts.
- ❖ **Squally wind with speed 45 to 55 kmph gusting to 65 kmph** is likely to prevail along and off the Oman coast, Gulf of Oman & parts of northwest Arabian Sea.

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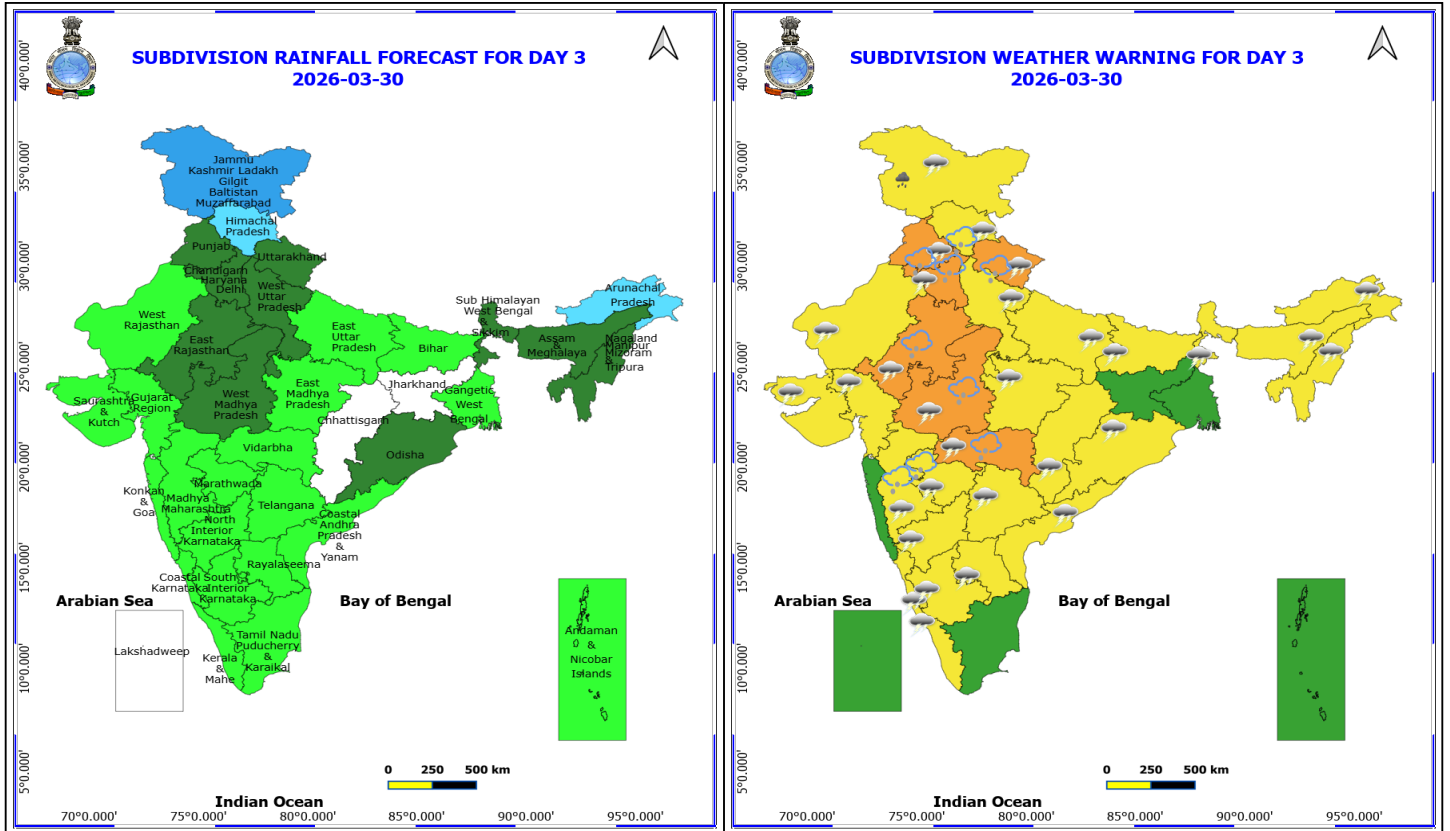
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29 March (Day 2)

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

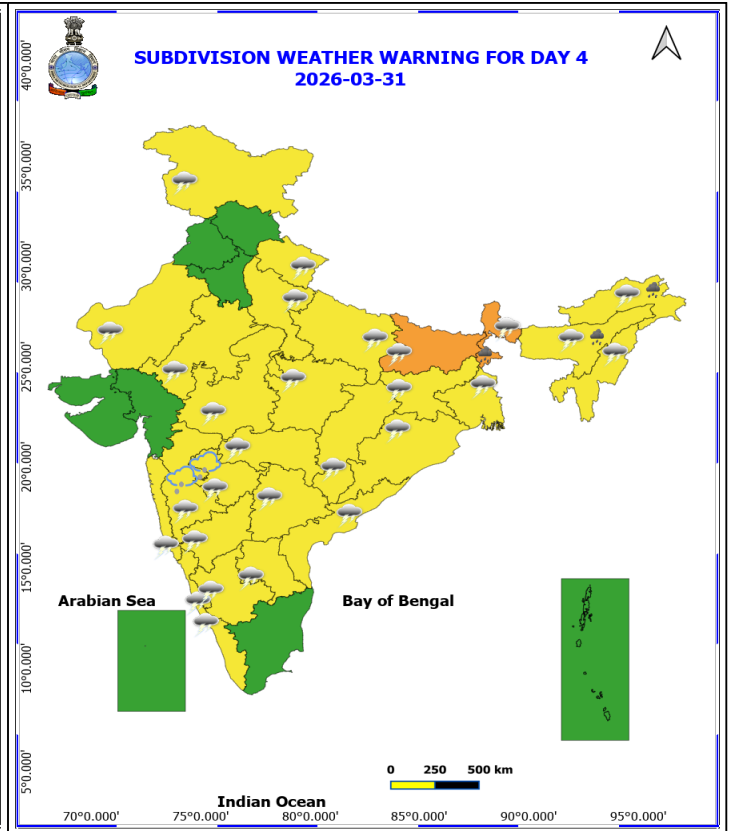
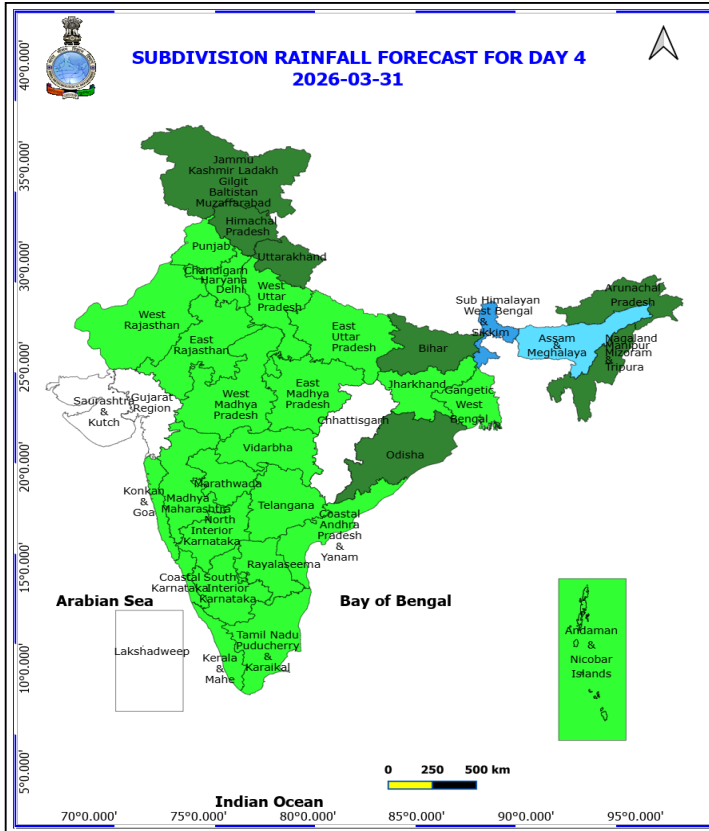
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30 March (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over East Rajasthan, Haryana, Chandigarh & Delhi, Himachal Pradesh, Maharashtra, Punjab, Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Marathwada, Odisha, Punjab, Rajasthan, Telangana, Uttar Pradesh, Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Chhattisgarh, East Madhya Pradesh, Gujarat State, Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, Kerala & Mahe and Nagaland, Manipur, Mizoram and Tripura.

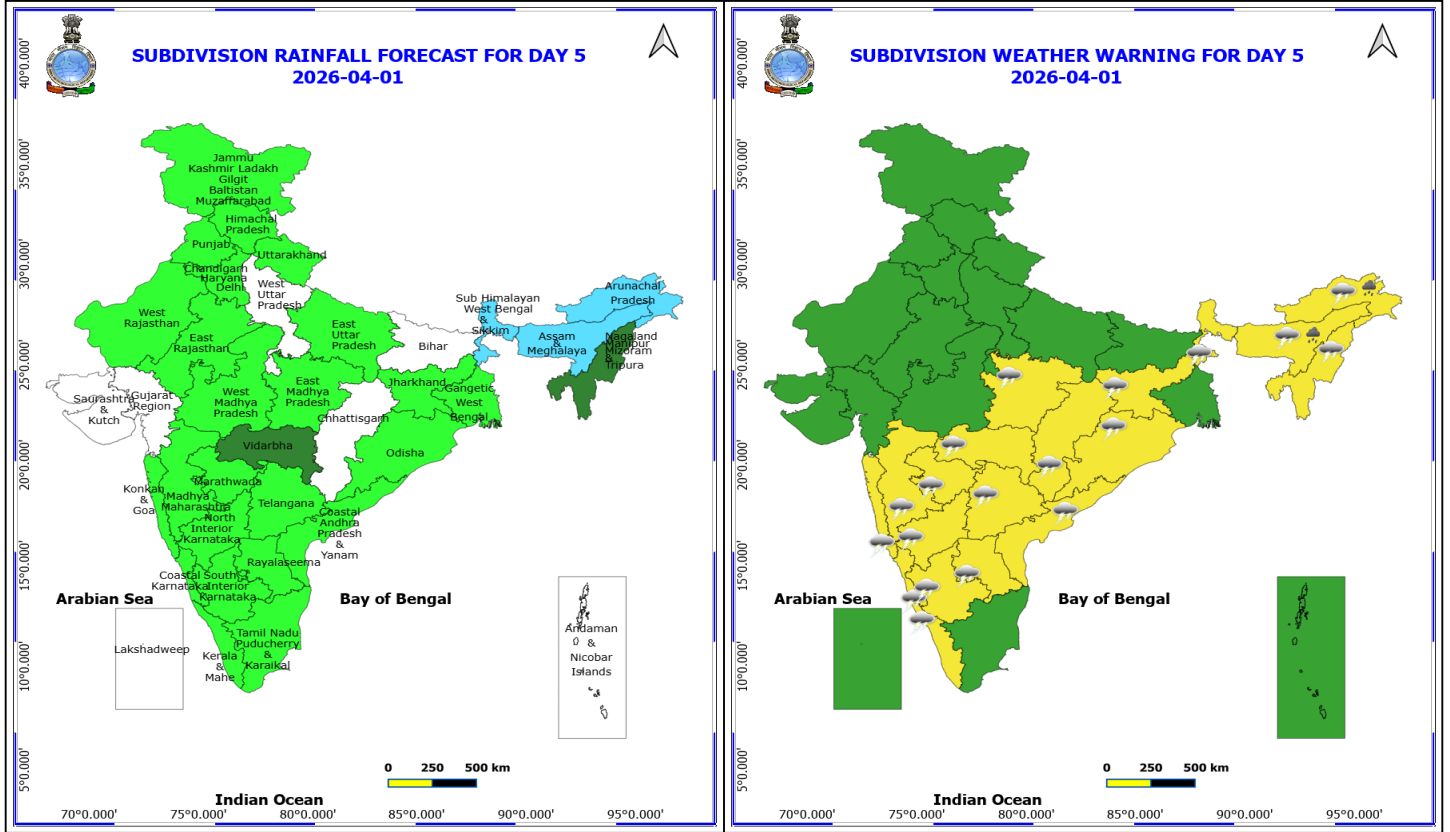
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31 March (Day 4)

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

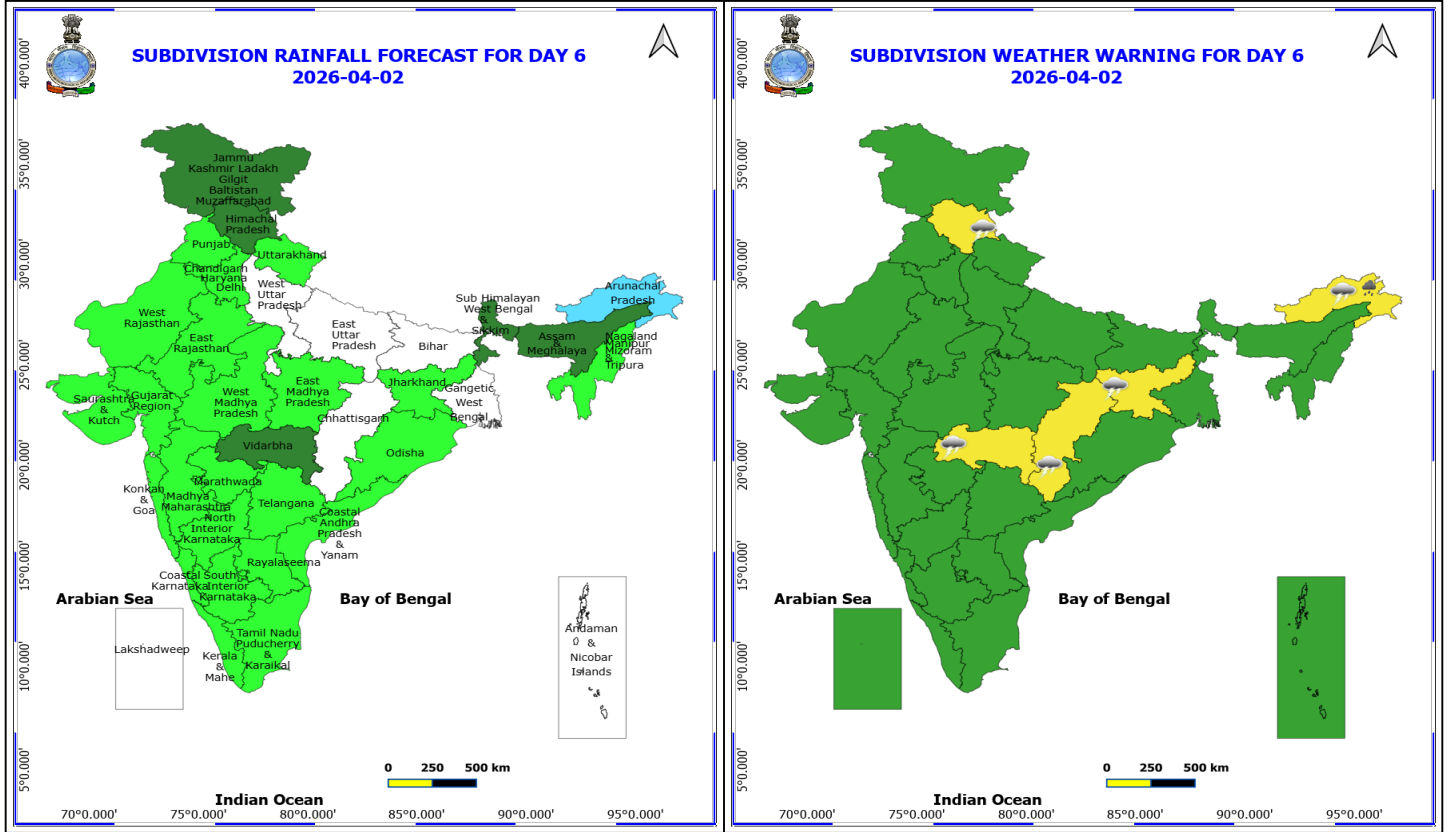
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1 April (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Madhya Maharashtra, Marathwada, Sub Himalayan West Bengal & Sikkim and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, East Madhya Pradesh, Interior Karnataka, Jharkhand, Konkan & Goa, Odisha and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe and Nagaland, Manipur, Mizoram and Tripura.

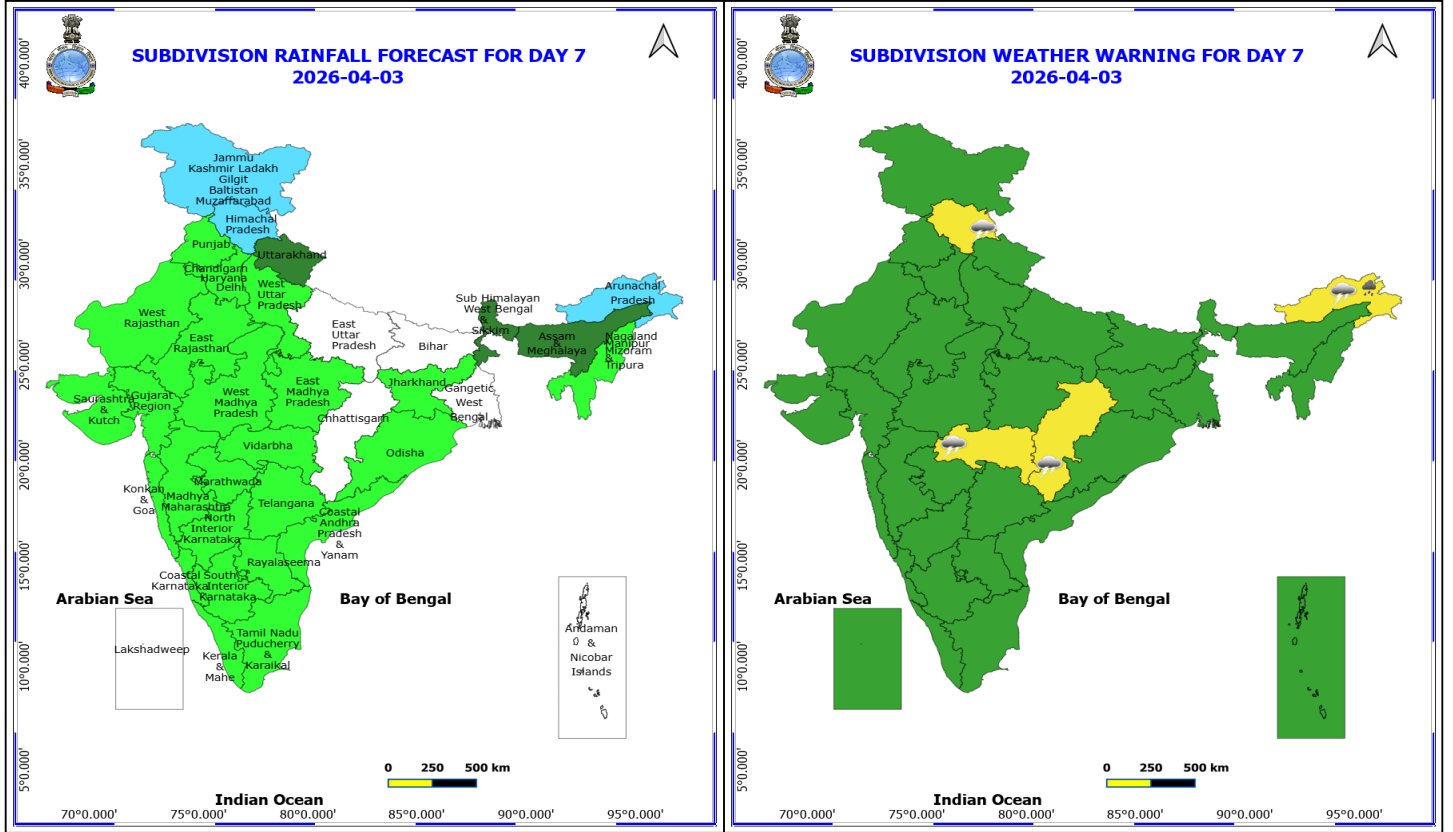
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2 April (Day 6)

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

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3 April (Day 7)

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

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Table-1

7 Days Rainfall Forecast

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

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

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Fig. 1: Maximum Temperatures Dated 2026-03-27

Fig. 2: Departure of Maximum Temp. Dated 2026-03-27

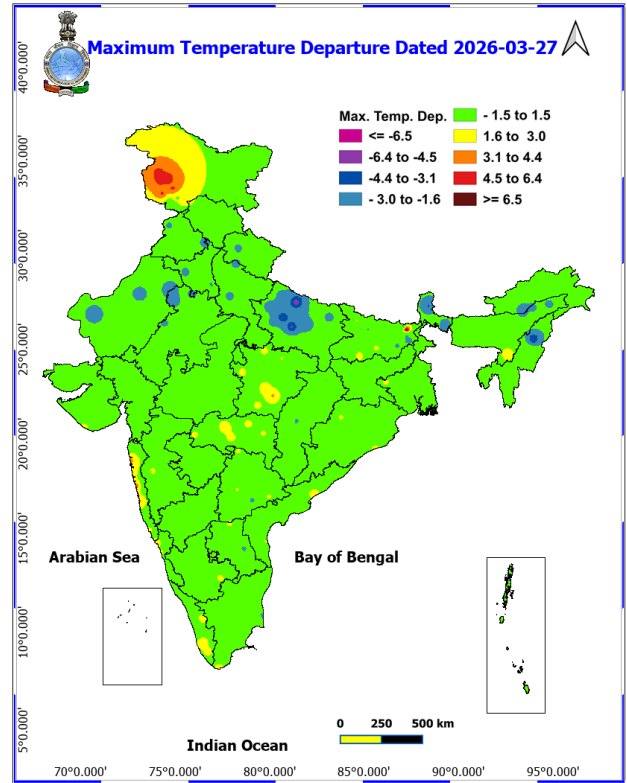
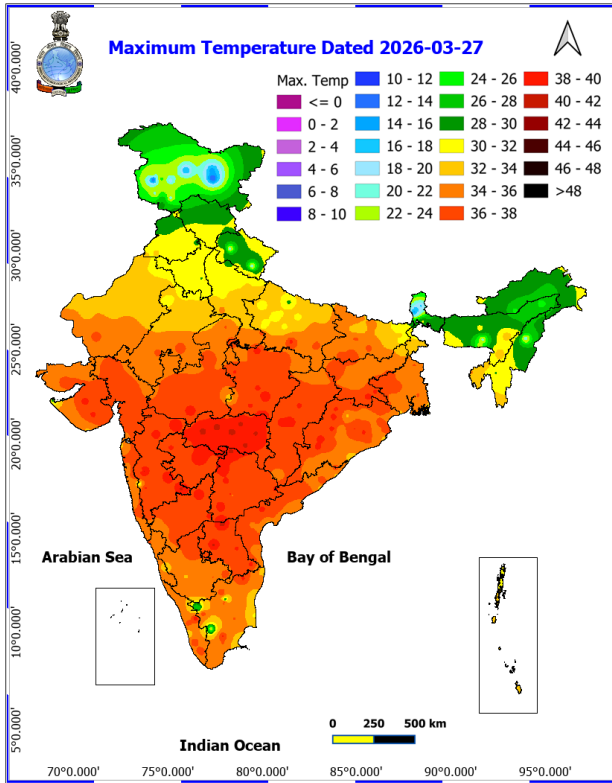
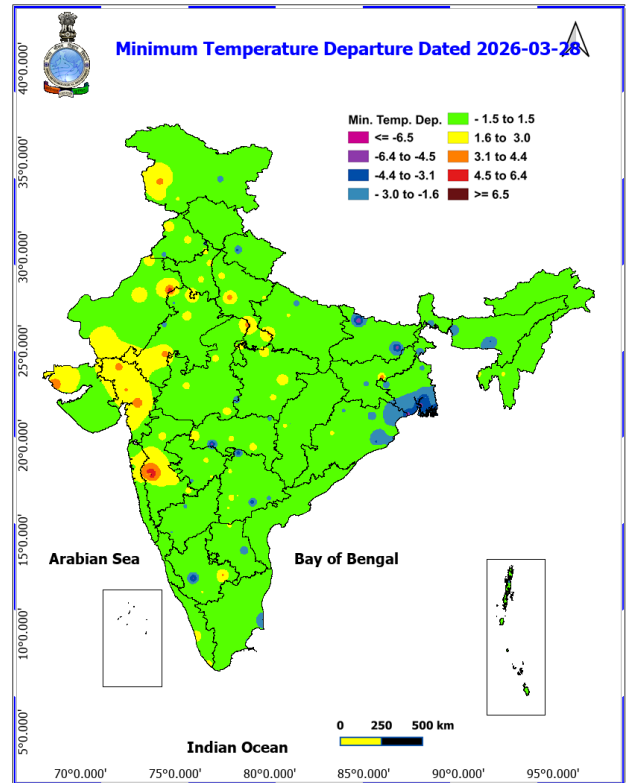
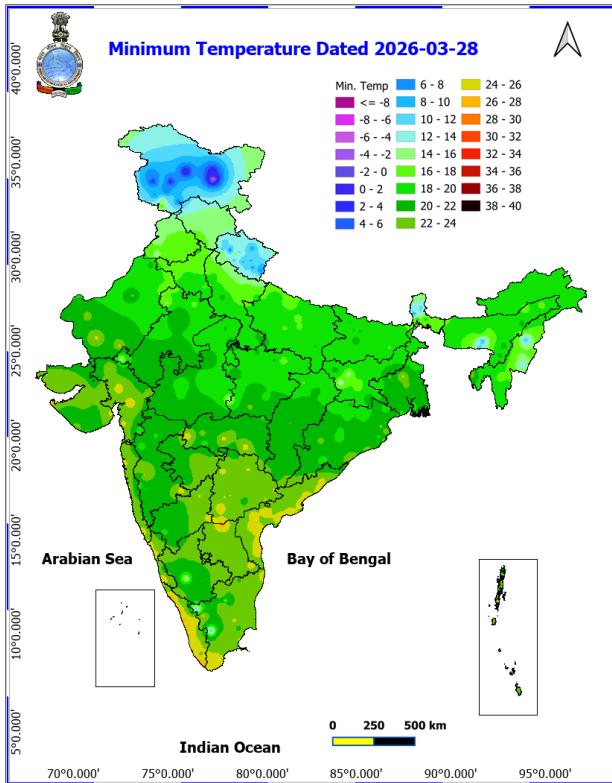


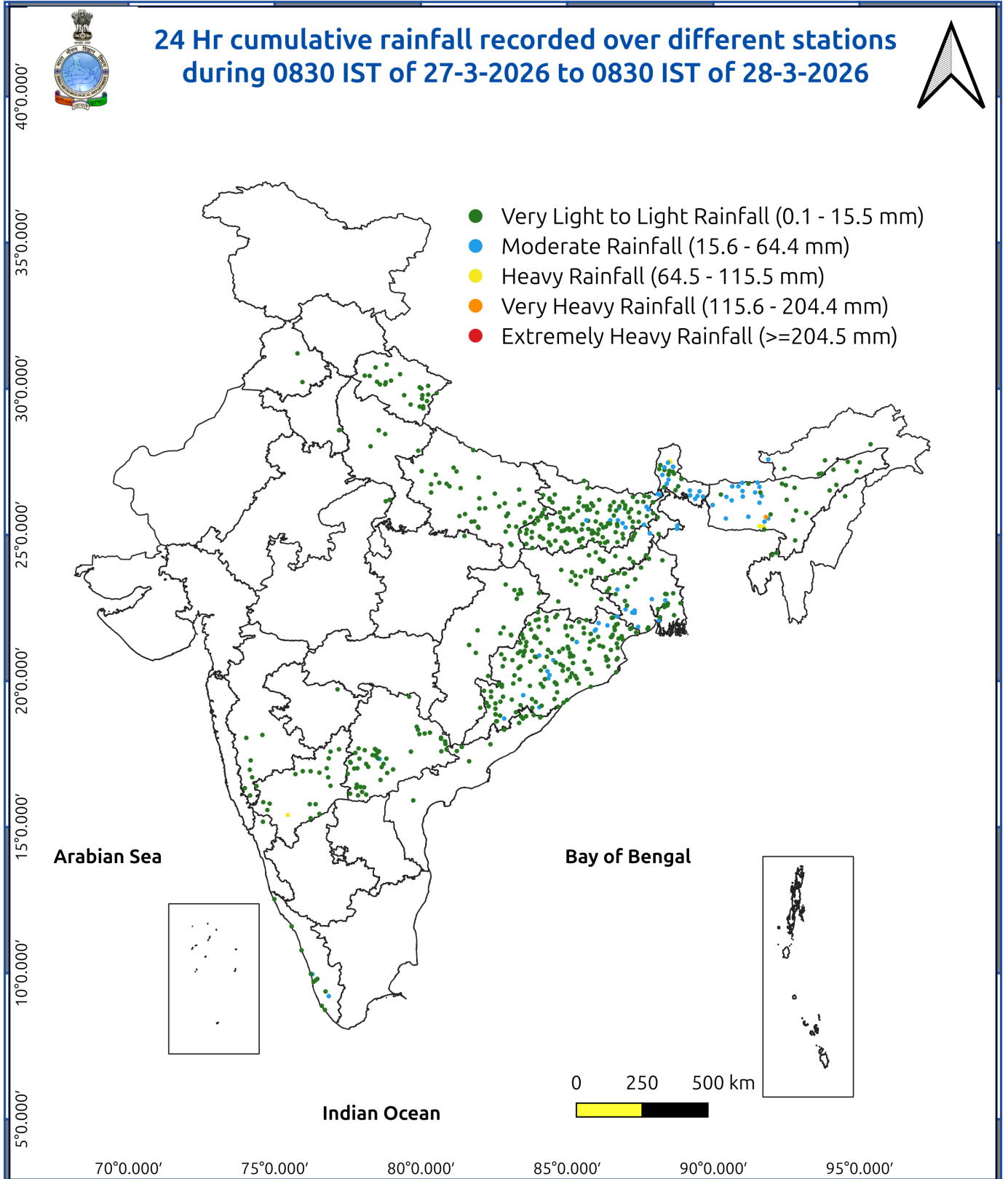
Fig. 3: Minimum Temperatures Dated 2026-03-28

Fig. 4: Departure of Minimum Temp. Dated 2026-03-28



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Impact and Actions

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

- **Isolated heavy rainfall/snowfall** likely over Kashmir valley on 30th March.
- **Isolated heavy rainfall** likely over Arunachal Pradesh on 28th, 29th & during 31st March – 03rd April; Assam & Meghalaya on 28th, 29th, 31st March and 01st April; Mizoram on 29th & Tripura 28th & 29th and Sub-Himalayan West Bengal & Sikkim on 28th & 31st March.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Impact expected and action suggested due to

- **Isolated hailstorm activity** also likely over Jammu-Kashmir and West Rajasthan on 29th; Himachal Pradesh, Punjab and Haryana Chandigarh & Delhi on 29th & 30th; Uttarakhand and East Rajasthan on 30th; West Bengal & Sikkim, Bihar, Jharkhand and Odisha on 28th March; West Madhya Pradesh and Vidarbha on 30th; Madhya Maharashtra and Marathwada on 30th & 31st March.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph) likely** over Sub-Himalayan West Bengal & Sikkim and Bihar on 28th & 31st; Gangetic West Bengal, Jharkhand and Odisha on 28th March.

Impact expected:

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

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.

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- 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

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, North West Rajasthan, West Bengal, Bihar, Odisha, and Jharkhand**. Undertake harvesting of mature crops immediately and shift them to safer places.
- In **Madhya Maharashtra, Marathwada and Vidarbha**, harvest mature wheat, sorghum, safflower, chickpea, maize, linseed, fruits and vegetables and keep the harvested produce in safe places.
- In **Uttarakhand**, harvest matured mustard, rapeseed, lentil & pea and keep the harvested produce to safe places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Sub Himalayan West Bengal**, ensure proper drainage channel, and drain out excess water from fields of rice, maize, other standing crops, vegetables and orchard. Shift the harvested produce to safe places. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets.
- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties and digging of potatoes. Shift the harvested produce to safe places. Maintain proper drainage channels in the fields of rice, maize, other standing crops, vegetables and orchards.
- In **Assam**, drain out excess rainwater from the standing crop fields.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Keep the harvested pods of garden peas in safer place immediately.
- In **Tripura**, make necessary arrangements to drain out excess water from the low lying areas to prevent water logging.
- In **Manipur**, harvest mature rapeseed/ mustard, field pea, lentil and onion before rain. Shift the harvested produce to an airy shed to protect it from rain, and sun-dry it when sunshine is available. Make necessary arrangements to drain out excess water from standing crops, vegetables & orchards to avoid water stagnation.
- In **Jammu & Kashmir**, make necessary arrangements to drain out excess rain water from wheat, gram, mustard and vegetable 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.

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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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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