

2026-03-11

Time of Issue: 08:16:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather systems, Forecast & Warnings:

- **Scattered to fairly widespread light to moderate rainfall/snowfall** likely over Jammu-Kashmir during 11<sup>th</sup>-12<sup>th</sup> and decrease to **Isolated** light rainfall/snowfall during 13<sup>th</sup>-16<sup>th</sup> March. **Isolated to scattered** light rainfall/snowfall also likely over Himachal Pradesh and Uttarakhand during 11<sup>th</sup>-16<sup>th</sup> March. **Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir on 11<sup>th</sup> and over Himachal Pradesh on 11<sup>th</sup>, 12<sup>th</sup> & during 14<sup>th</sup> -16<sup>th</sup> March.
- **Isolated** light rainfall also likely over Punjab, Haryana, Chandigarh during 14<sup>th</sup>-16<sup>th</sup>; West Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; West Rajasthan on 14<sup>th</sup>; East Rajasthan on 14<sup>th</sup> & 15<sup>th</sup> March.
- **Isolated to Scattered** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Punjab during 14<sup>th</sup>-16<sup>th</sup>; Odisha on 11<sup>th</sup>; Vidarbha, Chhattisgarh on 13<sup>th</sup> & 14<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 11<sup>th</sup>-13<sup>th</sup>; Gangetic West Bengal, Jharkhand during 11<sup>th</sup>-12<sup>th</sup>; Bihar on 11<sup>th</sup>, 15<sup>th</sup> & 16<sup>th</sup> March and with **thunderstorm & lightning** over Rajasthan on 14<sup>th</sup>; Kerala & Mahe and over East India during 11<sup>th</sup>-16<sup>th</sup> March.
- **Hailstorm** very likely at isolated places over Himachal Pradesh on 11<sup>th</sup> & 12<sup>th</sup> March.
- **Heavy Rainfall/snowfall** likely at isolated places over Jammu-Kashmir on 11<sup>th</sup>; Arunachal Pradesh on 12<sup>th</sup> & 13<sup>th</sup>; **Heavy Rainfall** at isolated places over Assam & Meghalaya on 14<sup>th</sup> March.

#### Heat Wave and Hot & Humid weather Warnings:

- **Heat wave to severe heat wave conditions** very likely in isolated pockets over Gujarat State on 11<sup>th</sup> and **heat wave conditions** in isolated pockets over West Rajasthan, Vidarbha, north Konkan on 11<sup>th</sup> and Gujarat State on 12<sup>th</sup> March.
- **Hot & humid conditions** very likely to prevail in isolated pockets over coastal areas of Gujarat State during 11<sup>th</sup>-13<sup>th</sup> March.

#### Forecast of maximum/day temperatures:

- **Gradual fall in** maximum temperature by 5-6°C over Western Himalayan region during next 7 days & no significant change in maximum temperature likely over plains of Northwest India during next 2 days and gradual fall by 2-4°C during subsequent 5 days except Uttar Pradesh where no significant change in maximum temperature during next 5 days and gradual fall by 2-3°C during subsequent 2 days. **Hence, Day temperatures likely to continue to remain above normal by 5-7°C over Jammu-Kashmir & Himachal Pradesh during next 2 days till 10<sup>th</sup> March; by 4-6°C over plains of Northwest India, Gujarat State, Madhya Pradesh during next 3 days till 11<sup>th</sup> March.**
- No significant change in maximum temperatures likely over Central & Northeast India during next 3 days and gradual fall by 3-4°C during subsequent 4 days.
- No significant change in maximum temperatures likely over Gujarat and Konkan & Goa during next 2-3 days and gradual fall by 2-3°C during subsequent 5 days.
- No significant change in maximum temperature likely over interior Maharashtra during next 7 days.
- No significant change in maximum temperature likely over South Peninsular India during next 2 days and gradual rise by 2-3°C during subsequent 5 days. **Day temperatures likely to be above normal by 2-3°C over Southeast Peninsular India during next 5 days.**
- No significant change in maximum temperatures likely over rest parts of the country.

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**Main Weather Observations:**

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at many places** over Assam & Meghalaya, Jammu & Kashmir and Ladakh and Tamilnadu Puducherry & Karaikal; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Assam & Meghalaya:** Barapani/shillong (dist East Khasi Hills) 2; **Tamilnadu Puducherry & Karaikal:** Karaikal (dist Karaikal) 2, Nagapattinam (dist Nagapattinam) 1.

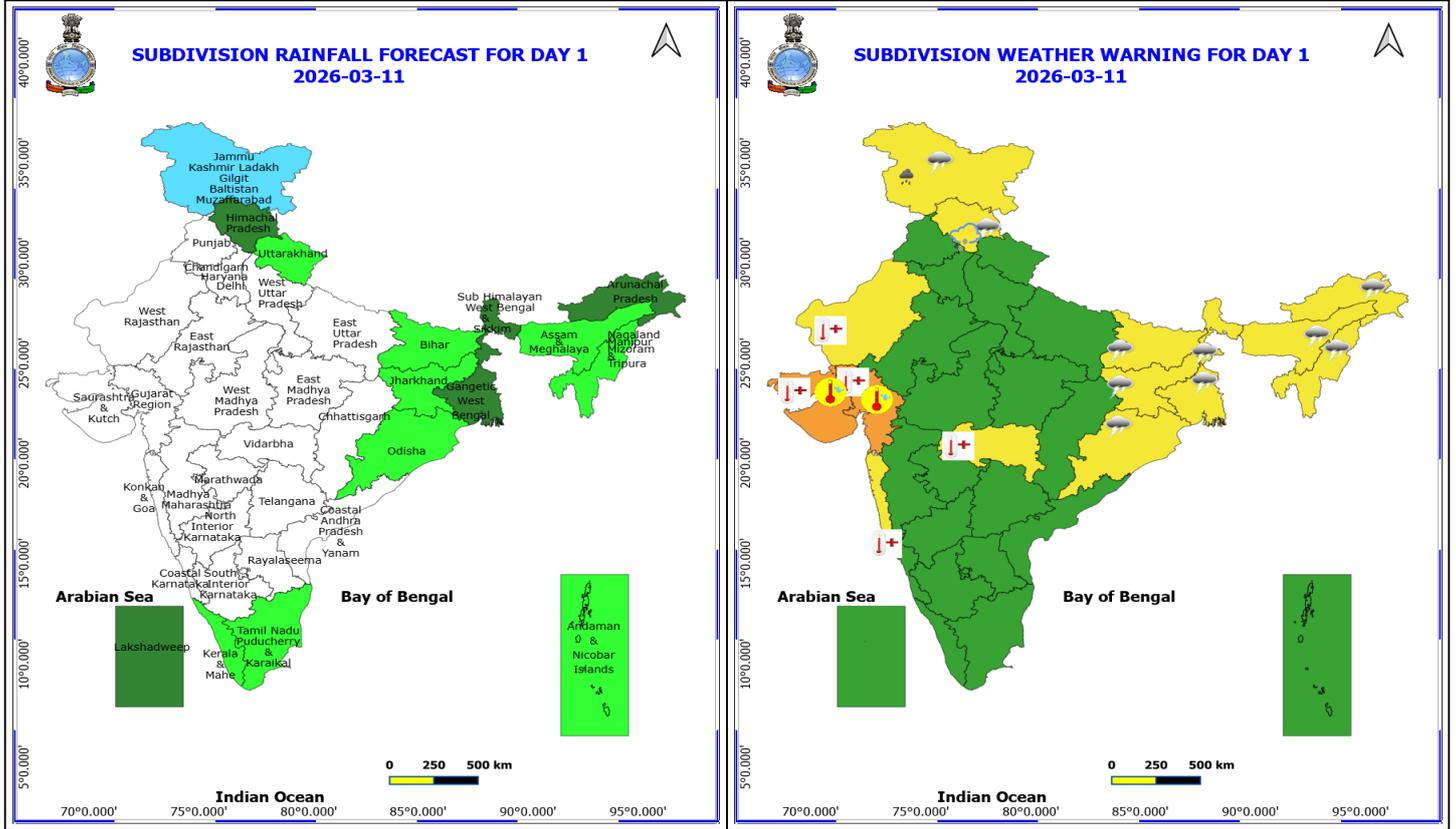
**Yesterday, Heat wave to severe heat wave conditions** prevailed in many places of Gujarat state and in isolated pockets over Himachal Pradesh.

❖ **Minimum Temperature Departures (as on 10-03-2026):** markedly above normal(> 5.1°C) at many places over Bihar, East Uttar Pradesh and Uttarakhand; at most places over West Uttar Pradesh, Punjab and Jammu Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad; at few places over Haryana-Chandigarh-Delhi, Himachal Pradesh and West Rajasthan; at isolated places over Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Jharkhand, East Rajasthan, Gujarat Region, Saurashtra & Kutch and Madhya Maharashtra. appreciably above normal(3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura and Chhattisgarh; at most places over Arunachal Pradesh; at few places over Andaman & Nicobar Islands, East Madhya Pradesh and Coastal Karnataka; at isolated places over Assam & Meghalaya, West Madhya Pradesh and North Interior Karnataka. above normal(1.6°C to 3.0°C) at few places over Konkan & Goa, Marathwada, Vidarbha and Telangana; at isolated places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe. near normal(-1.5°C to 1.5°C) at many places over Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka; at most places over Lakshadweep; at few places over Rayalaseema. Yesterday, **the lowest minimum temperature of 11.4°C** was reported at FATHEPUR (RAJASTHAN) over the Plains of India.

❖ **Maximum Temperature Departures (as on 10-03-2026):** Maximum temperatures were **markedly above normal (5.1? or more)** at most places over Saurashtra & Kutch; at many places over Gujarat Region, Haryana-Chandigarh-Delhi, Himachal Pradesh, West Rajasthan; at a few places over Arunachal Pradesh, East Madhya Pradesh, East Rajasthan, Jammu & Kashmir, Punjab, West Uttar Pradesh; at isolated places over Assam & Meghalaya, East Uttar Pradesh, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Uttarakhand, West Madhya Pradesh; **appreciably above normal (3.1? to 5.0?)** at a few places over Chhattisgarh, Marathwada; at isolated places over Bihar, Gangetic West Bengal, Kerala & Mahe, Madhya Maharashtra, Odisha, Vidarbha; **above normal (1.6? to 3.0?)** at many places over Coastal Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Coastal Andhra Pradesh & Yanam, Jharkhand, North Interior Karnataka. Yesterday, **The highest maximum temperature of 42.0°C** was reported at RAJKOT (A) (GUJARAT).

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

- The **upper air cyclonic circulation** over east Bangladesh & neighbourhood between 1.5 & 3.1 km above mean sea level has become less marked. However, the **trough aloft** in middle tropospheric westerlies with its axis at 4.5 km above mean sea level has moved away eastwards.
- The **upper air cyclonic circulation** over south Jharkhand and adjoining north Chhattisgarh extending upto 1.5 km above mean sea level persists.
- The **trough** now runs from above **cyclonic circulation** over south Jharkhand and adjoining north Chhattisgarh to South Interior Karnataka across interior Odisha, Chhattisgarh, Vidarbha, Marathwada and Interior Karnataka at 0.9 km above mean sea level.
- The **Western Disturbance** as a trough in middle level tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 50°E to the north of Lat. 28°N.
- The **upper air cyclonic circulation** over central Pakistan & neighbourhood at 1.5 km above mean sea level persists.
- The **trough** in easterlies over Lakshadweep roughly along 75°E to the north of latitude 6°N at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over southwest Bay of Bengal and adjoining north Sri Lanka between 1.5 & 3.1 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 90 knots at 12.6 km above mean sea level prevails over Northwest India.
- A **fresh Western Disturbance** is likely to affect northwest India from 14<sup>th</sup> March 2026.

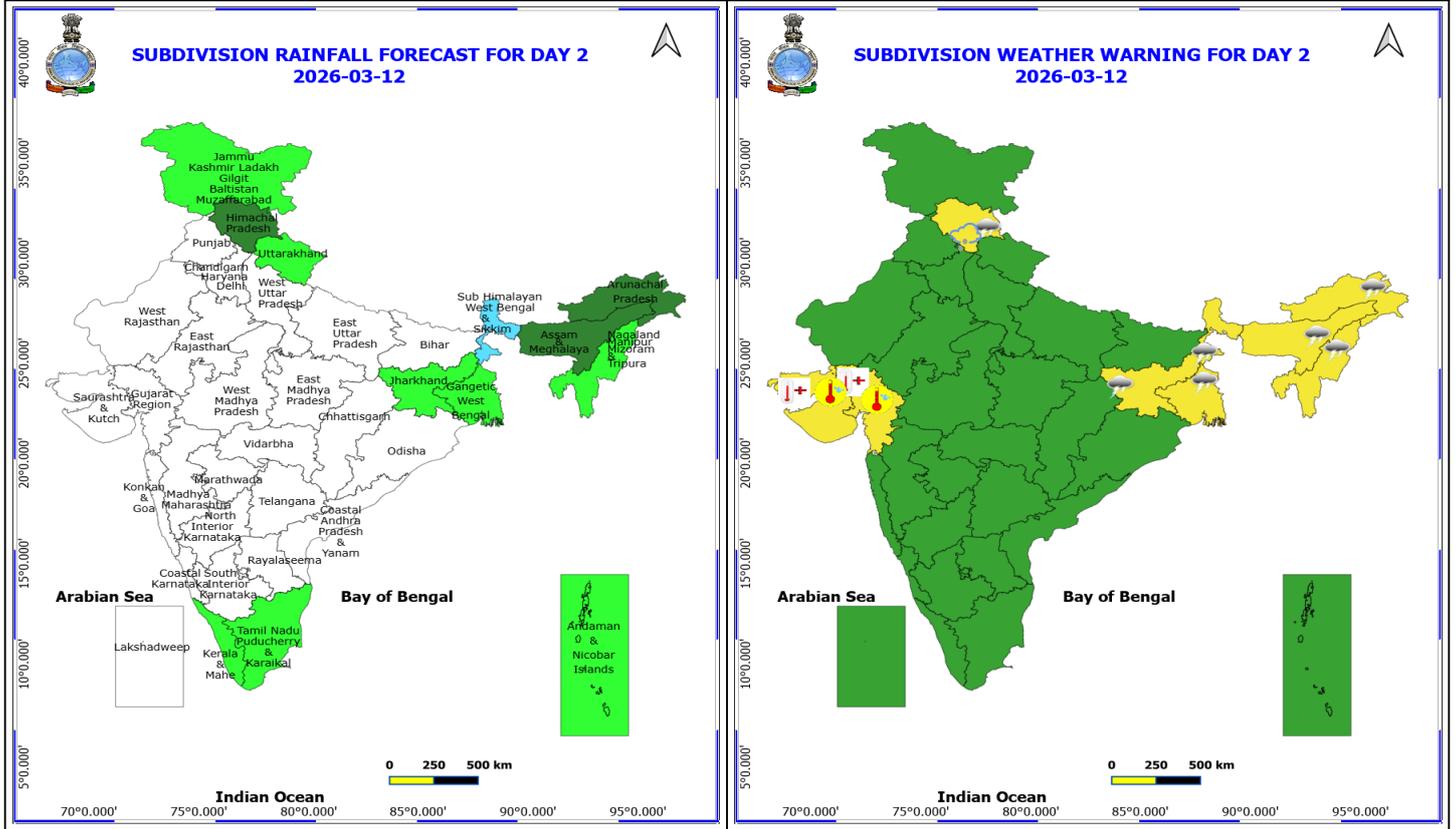


**11 March (Day 1)**

- ❖ **Heavy Rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Himachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Himachal Pradesh and Jharkhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Konkan & Goa, Vidarbha and West Rajasthan.
- ❖ **Heat Wave to Severe Heat Wave conditions** very likely at isolated places over Gujarat State.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat State.

**No Fishermen Warning**

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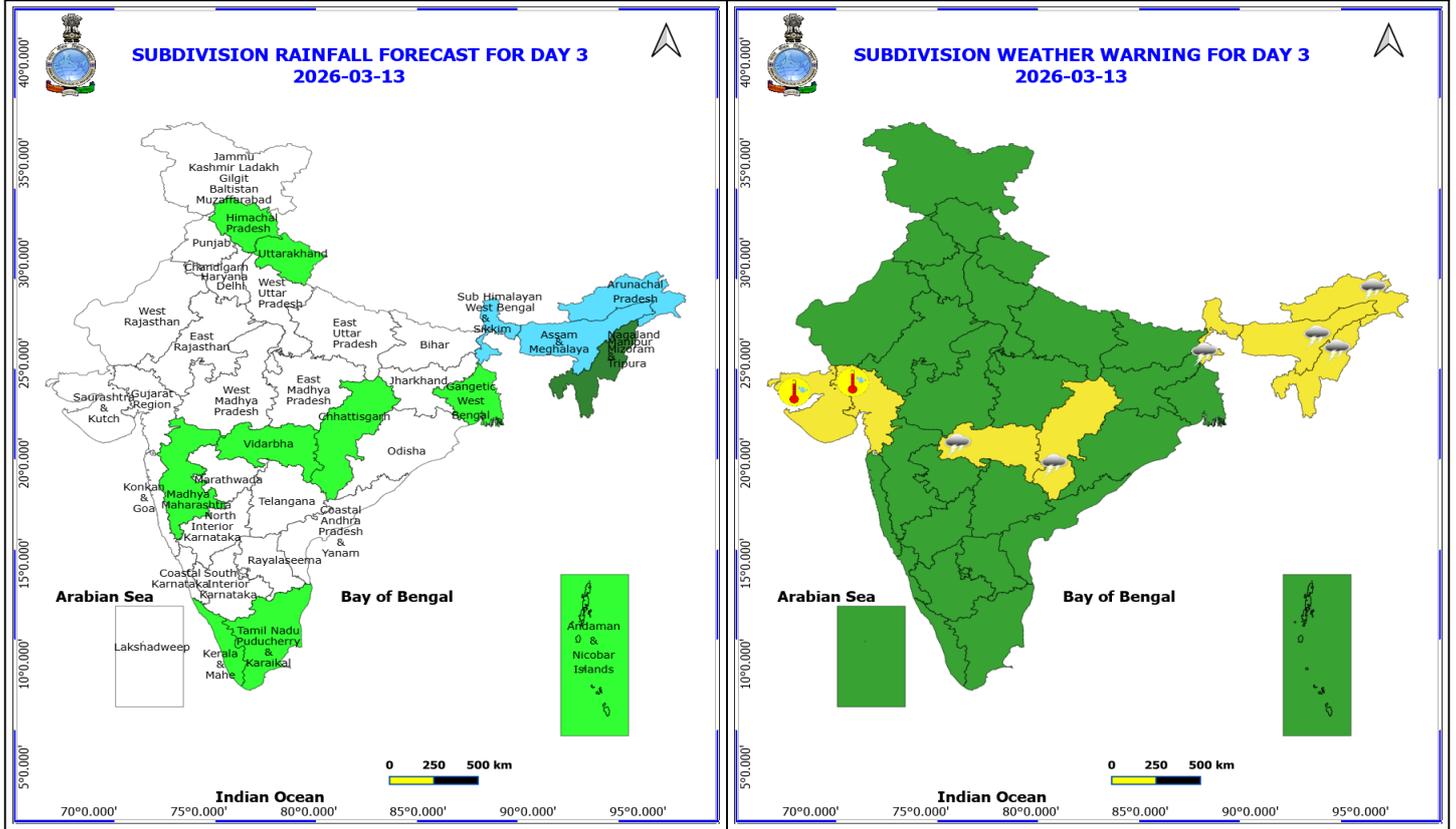


**12 March (Day 2)**

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Himachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Himachal Pradesh and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Gangetic West Bengal and Jharkhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Gujarat State.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat State.

**No Fishermen Warning**

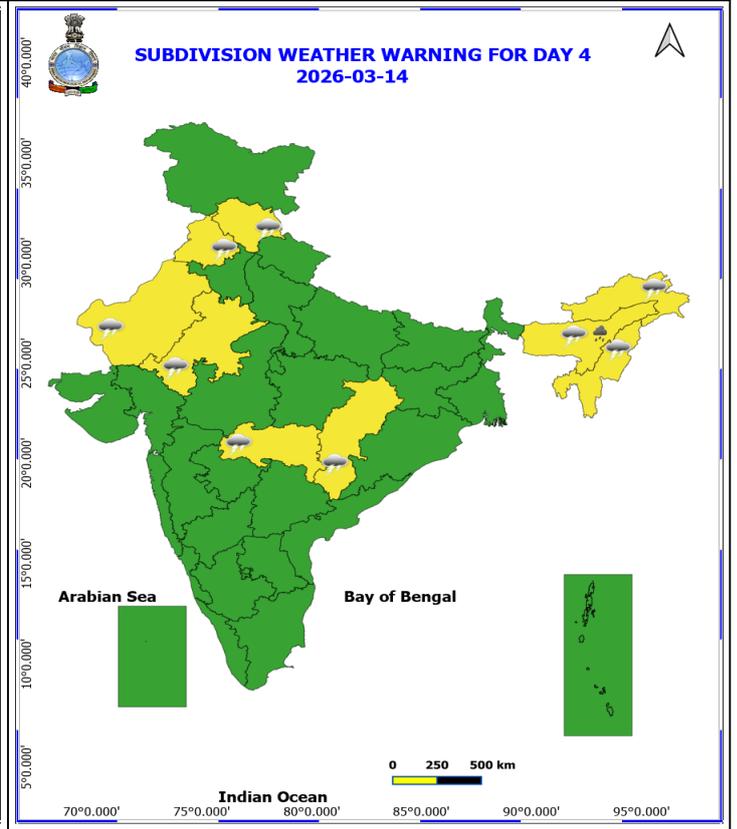
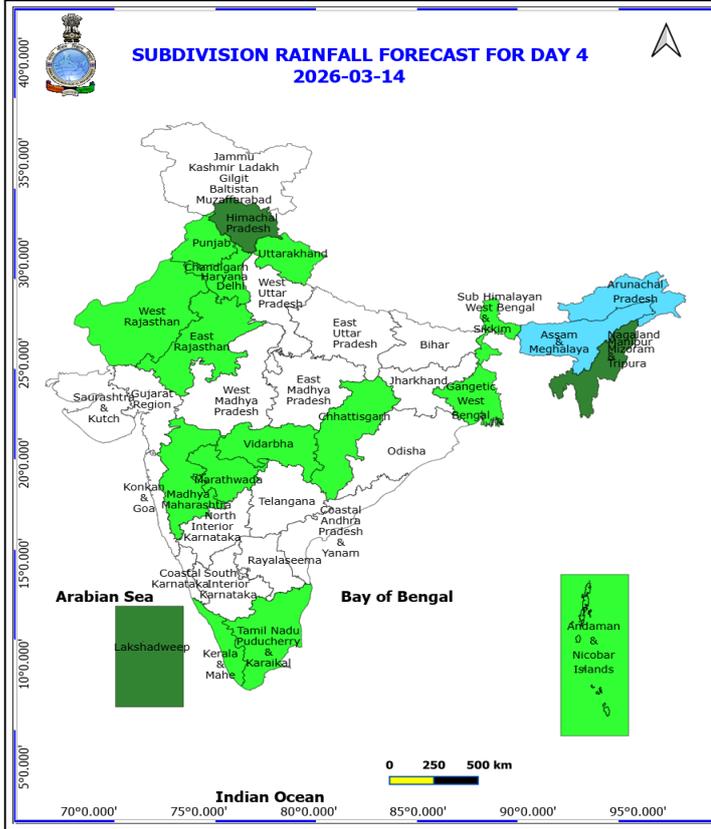
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**13 March (Day 3)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds (40-50kmph)** very likely at isolated places over Chhattisgarh, Sub Himalayan West Bengal & Sikkim and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat State.

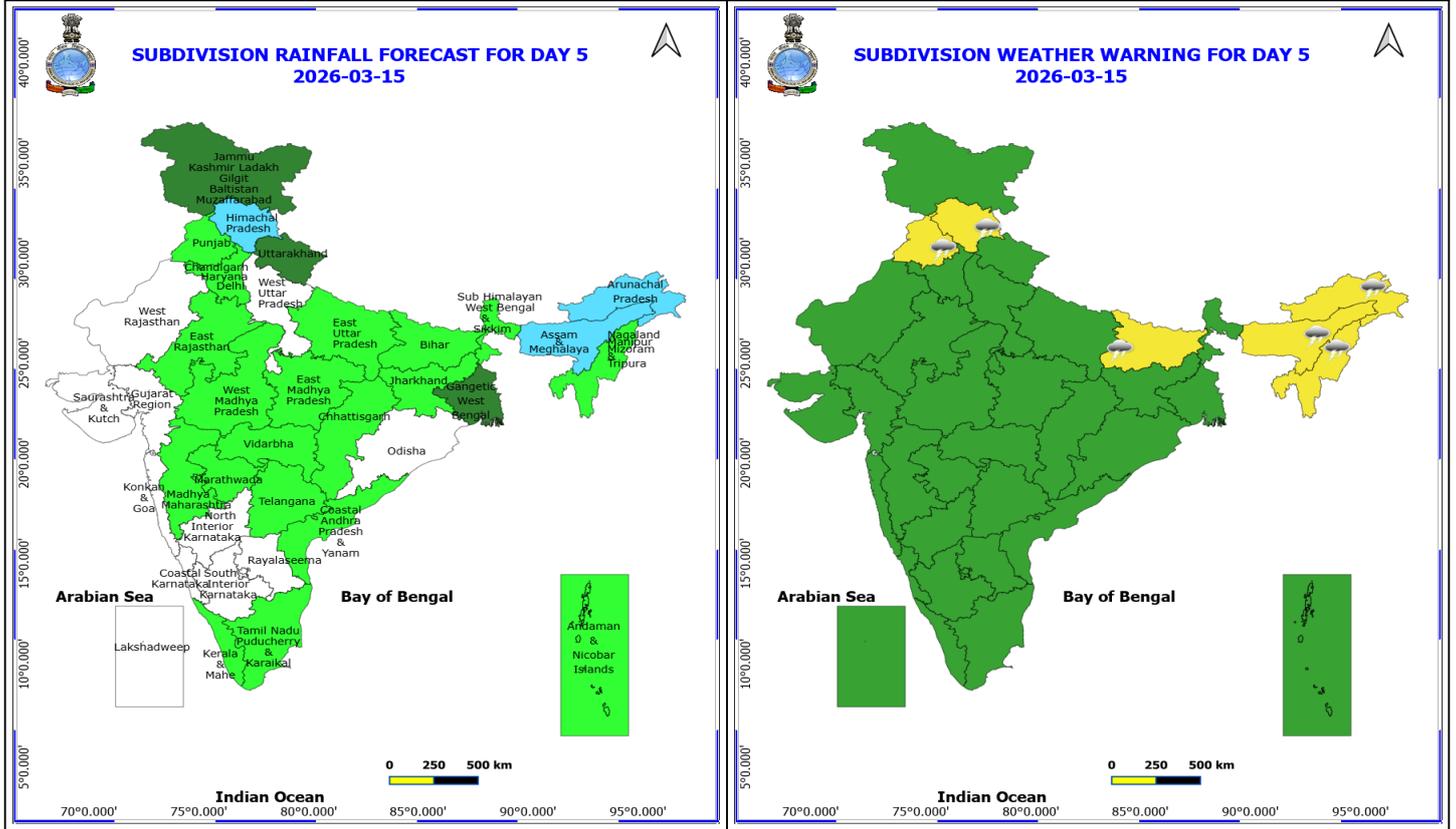
**No Fishermen Warning**



**14 March (Day 4)**

- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Himachal Pradesh and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Punjab.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura and Rajasthan.

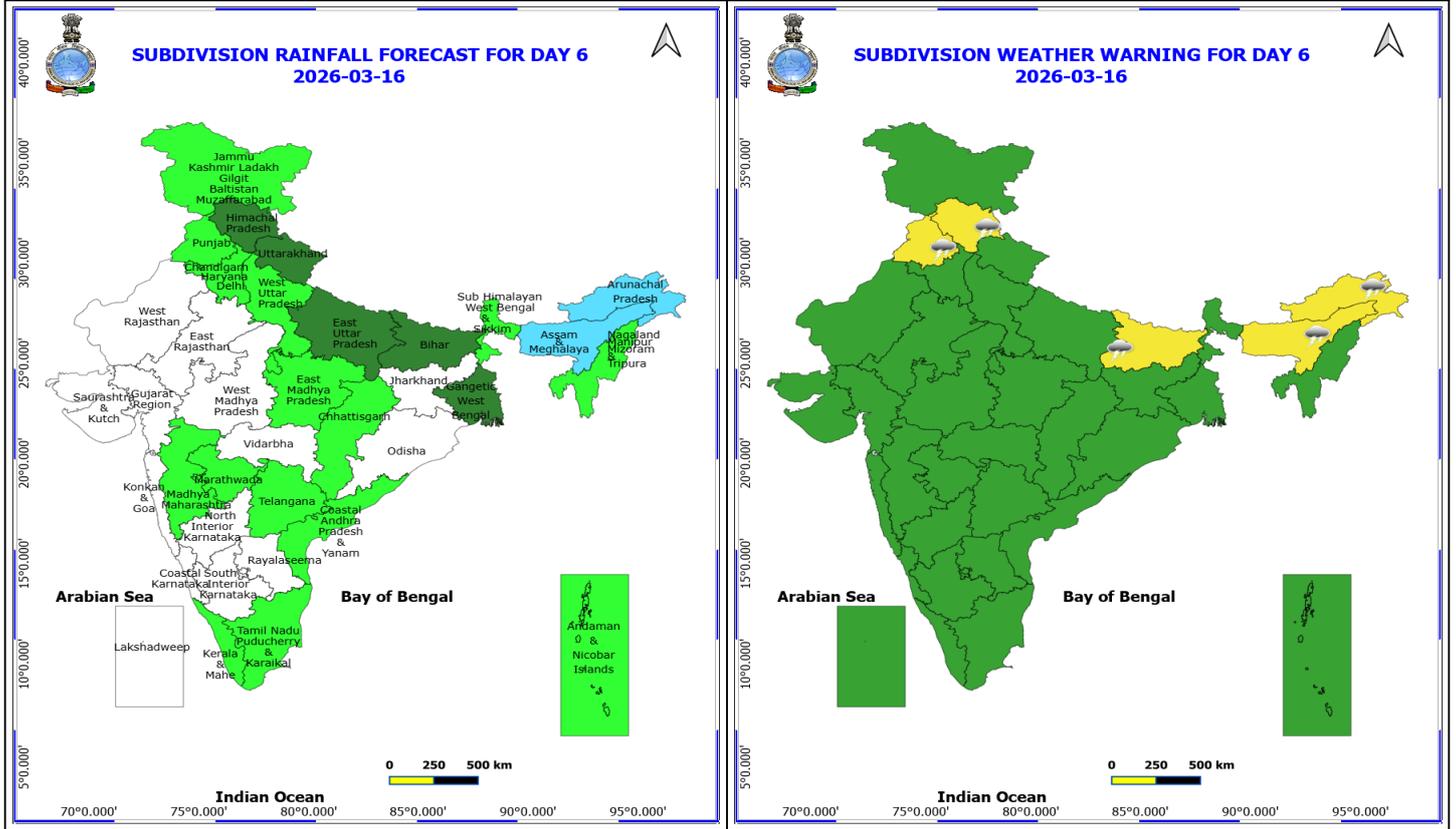
**No Fishermen Warning**



**15 March (Day 5)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Himachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

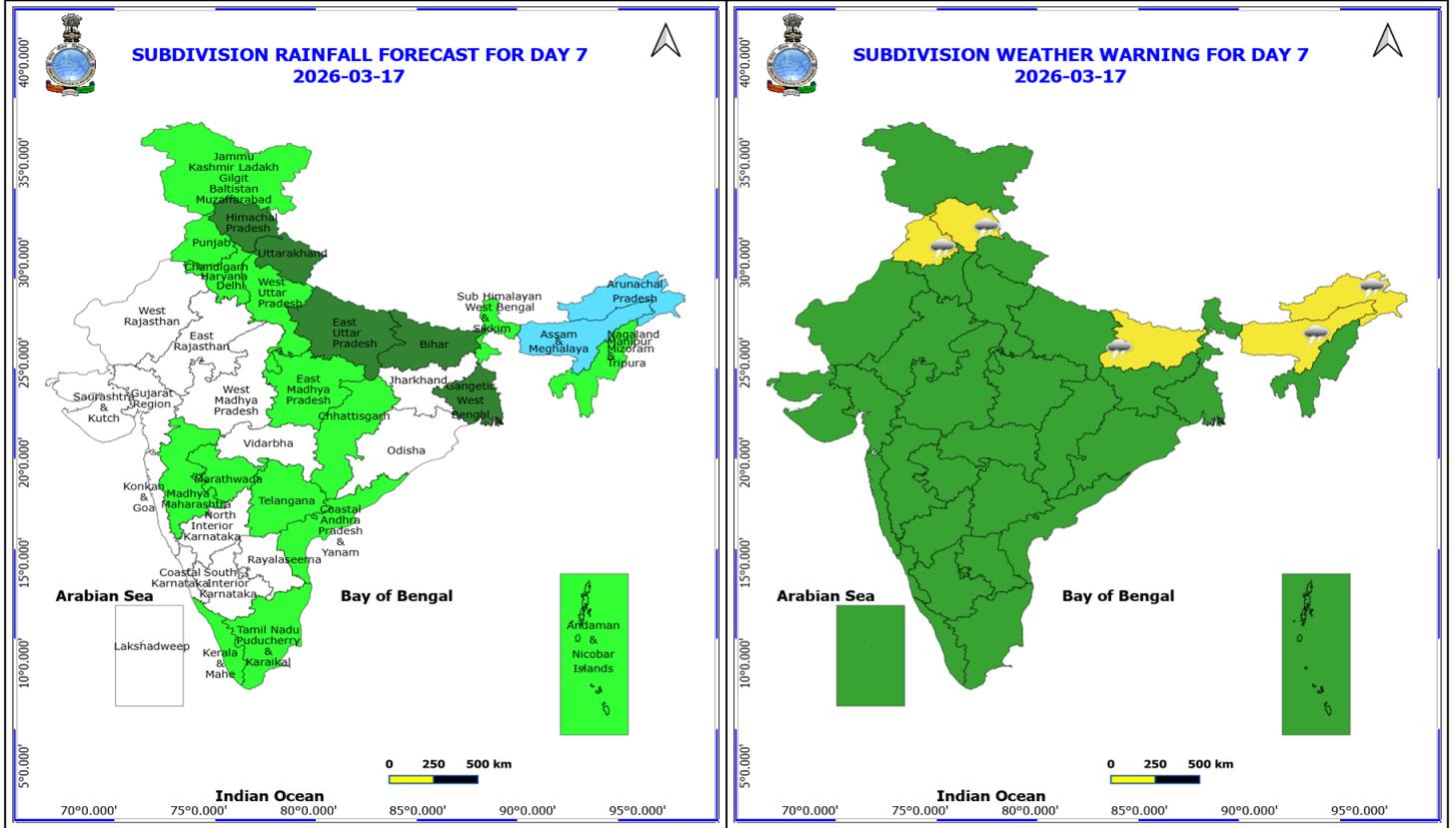
**No Fishermen Warning**



**16 March (Day 6)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Himachal Pradesh and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

**No Fishermen Warning**



**17 March (Day 7)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Himachal Pradesh and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

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**Table-1**

**7 Days Rainfall Forecast**

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

Fig. 2: Departure of Maximum Temp. Dated 2026-03-10

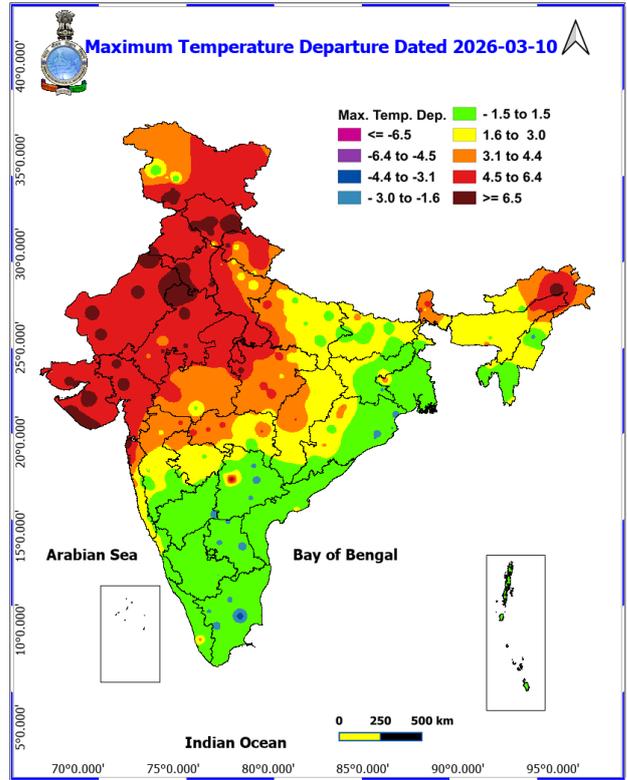
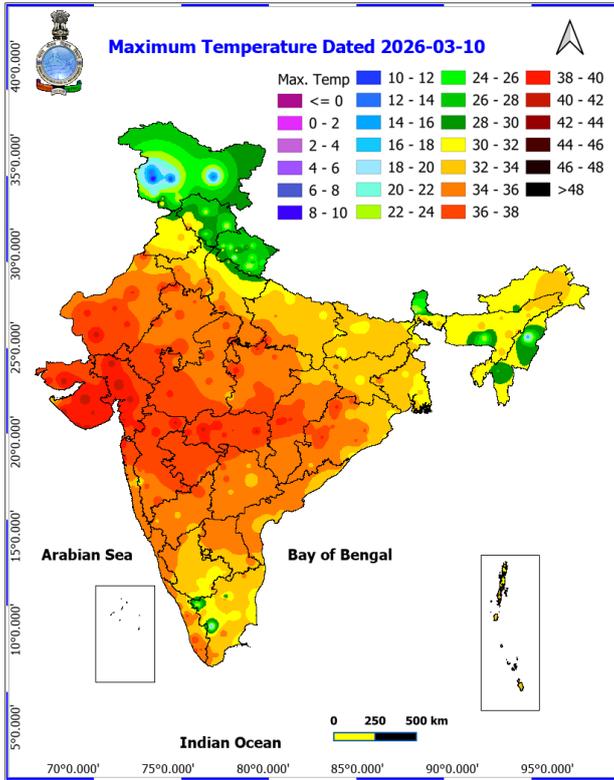
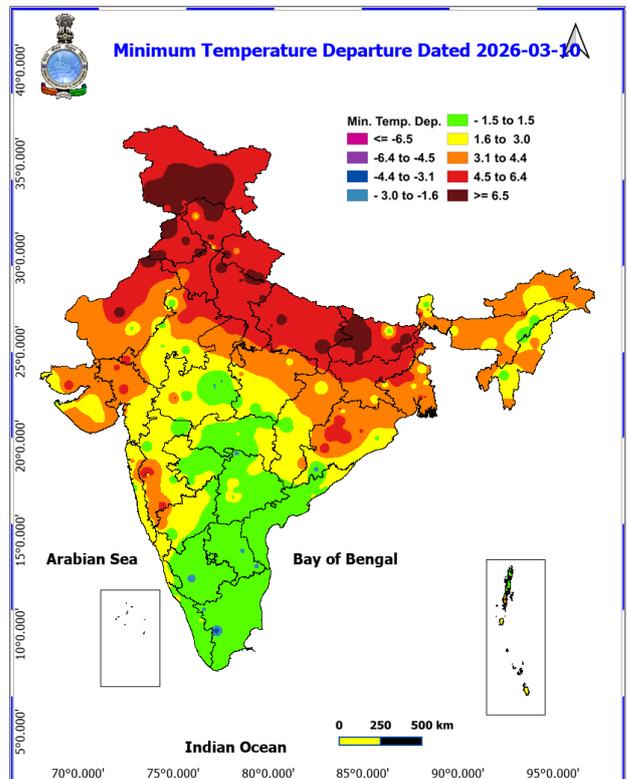
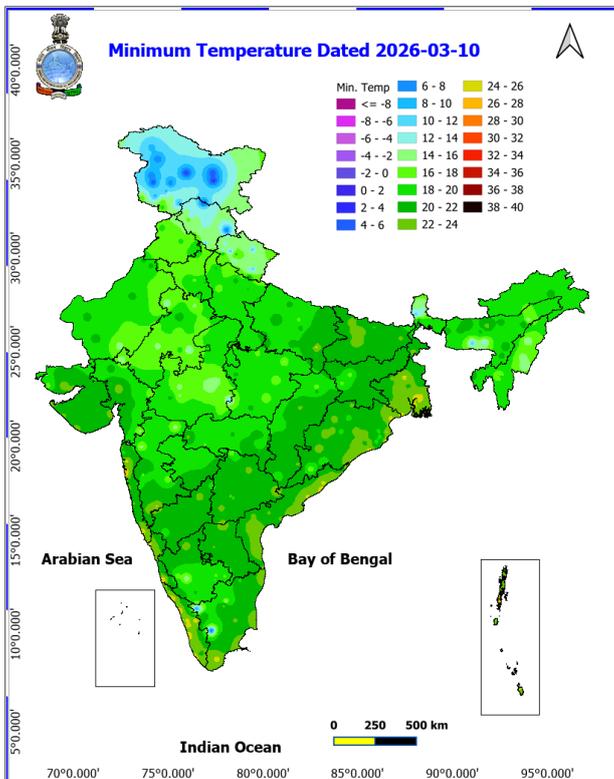


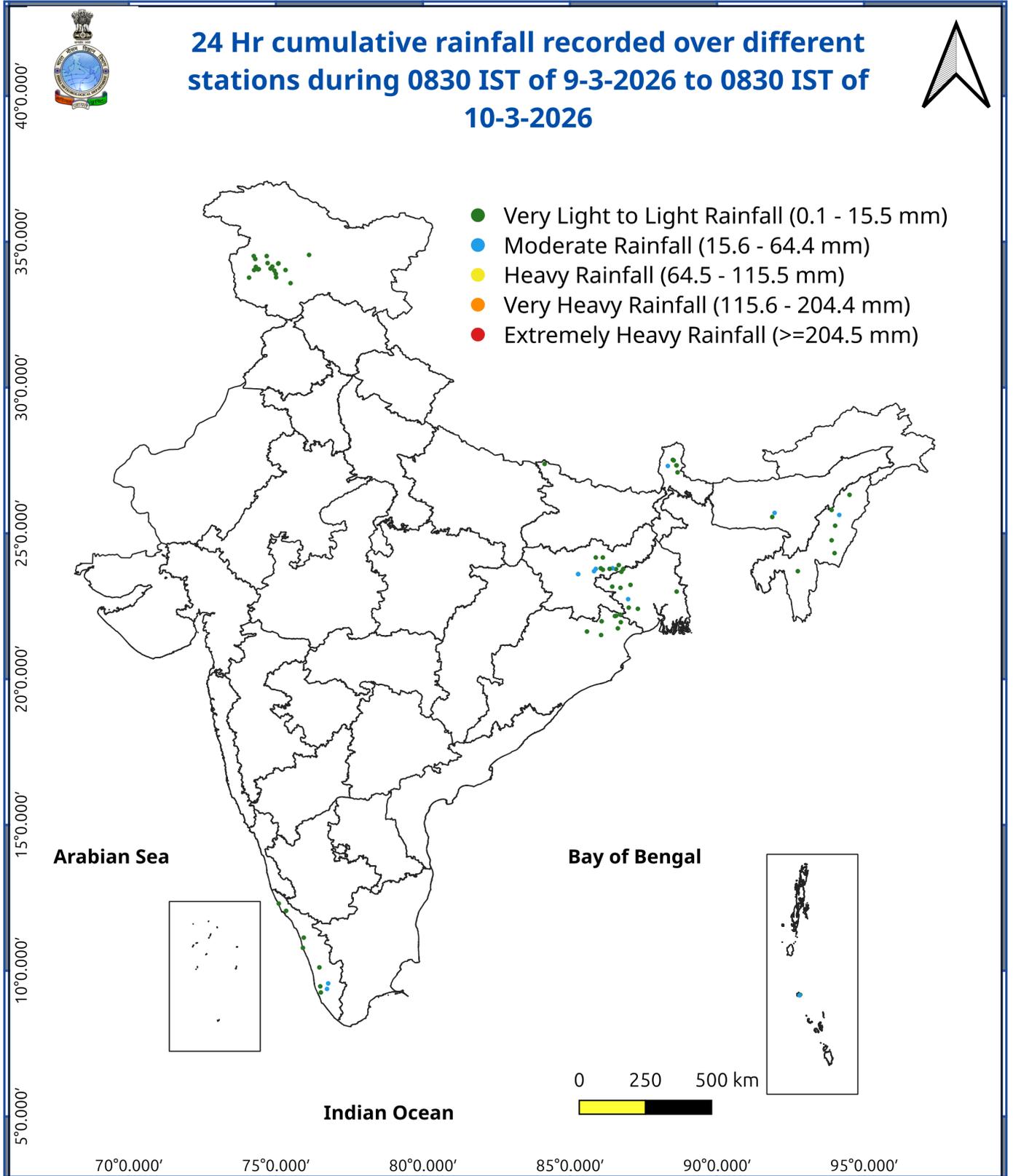
Fig. 3: Minimum Temperatures Dated 2026-03-10

Fig. 4: Departure of Minimum Temp. Dated 2026-03-10



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### Impact expected and action suggested due to isolated thunderstorm with lightning/ gusty winds & Hailstorm over

- **Hailstorm** very likely at isolated places over Himachal Pradesh on 11<sup>th</sup> & 12<sup>th</sup> March.
- **Isolated thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir, Odisha on 11<sup>th</sup>; Himachal Pradesh on 11<sup>th</sup>, 12<sup>th</sup> & during 14<sup>th</sup>-16<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 11<sup>th</sup>-13<sup>th</sup>; Gangetic West Bengal, Jharkhand during 11<sup>th</sup>-12<sup>th</sup>; Bihar on 11<sup>th</sup>, 15<sup>th</sup> & 16<sup>th</sup>; Vidarbha, Chhattisgarh on 13<sup>th</sup> & 14<sup>th</sup>; Punjab during 14<sup>th</sup>-16<sup>th</sup> March..

#### Impact expected:

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

#### Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

### Impact expected and action suggested due Heat Wave conditions

- **Heat wave to severe heat wave conditions very likely in isolated pockets over Himachal Pradesh and north Konkan on 10<sup>th</sup> and Gujarat State on 10<sup>th</sup> & 11<sup>th</sup> and heat wave conditions in isolated pockets over West Rajasthan, Vidarbha on 10<sup>th</sup> & 11<sup>th</sup>; north Konkan on 11<sup>th</sup> and Gujarat State on 12<sup>th</sup> March.**

#### Orange alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure— keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.

**Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.**

#### Yellow alert Areas

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.

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- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

### Agromet advisories for various parts of the country

#### Agromet advisories for likely impact of Above normal Temperatures

- 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.
- Agromet advisories for likely impact of Heavy Rainfall
- In Arunachal Pradesh, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties, digging of mature potatoes and shift the harvested produce to safe places.
- In Sub-Himalayan West Bengal, undertake digging of matured potatoes as early as possible during clear weather.

#### Agromet advisories for likely impact of Above normal Temperatures

- Increased evapotranspiration leading to soil moisture depletion and moisture stress, which may adversely affect crop growth, seed development and yield.
- Accelerated crop maturity, shortened grain filling duration and shrivelled grain formation, resulting in possible yield reduction in wheat crop.
- Increased moisture stress and reduced grain filling in cereals and other rabi crops such as rabi maize, sorghum and other late sown rabi crops (vegetative to reproductive stages).
- Flower drop, poor pod setting, premature pod drying and reduction in seed size and seed weight in oilseed and pulse crops.
- Reduced tuber bulking and early plant senescence in tuber crops such as potato.
- Flower drop, fruit sunscald and reduction in marketable yield in vegetable crops such as tomato, capsicum, cabbage and cauliflower.
- Flower drop, reduced fruit setting, premature fruit drop, fruit sunburn (or sunscald), reduction in fruit size, uneven ripening, deformities such as spongy tissue (especially in mango), along with an overall decrease in yield and quality in horticultural crops (such as mango, apple, orange, etc.).
- Increased crop water requirements and higher risk of water stress under limited irrigation conditions.
- Reduced feed intake, milk yield and egg production along with increased water requirement in livestock and poultry.
- Agromet advisories for likely impact of Above normal Temperatures
- In Jammu and Kashmir, apply light irrigation to wheat, mustard and vegetables.
- In Himachal Pradesh, provide protective irrigation to wheat and early vegetables. Maintain ventilation in polyhouses for capsicum and tomato.
- In Punjab, maintain optimum soil moisture through irrigation in mustard, gobhi sarson and potato. Provide irrigation to wheat at grain filling stage as required.
- In Haryana, provide light irrigation to mustard and gram at flowering and pod formation stages. Maintain optimum soil moisture in wheat during grain filling stage.
- In Uttarakhand, provide light and frequent irrigation in wheat, lentil, chickpea and mustard during critical growth stages (flowering and grain filling in wheat, pod formation in mustard and gram etc.).
- In Rajasthan, provide protective irrigation in cumin, Isabgol, mustard and gram during morning or evening hours to minimize heat stress.
- In Uttar Pradesh, provide light irrigation in wheat (grain filling stage), mustard and gram crops during morning or evening hours to reduce adverse impacts of heat.
- In Gujarat, apply light irrigation in wheat (grain filling stage), chickpea and cumin.
- In Maharashtra, apply irrigation at frequent intervals to reduce premature fruit drop and sun scorching in mango and undertake pre-harvest bagging of mango fruits using newspaper bags to prevent sun scalding in Konkan. Apply irrigation in late sown rabi crops like wheat, groundnut, sesame, safflower, sorghum, orchards and vegetables as per requirement and use straw mulch to reduce evaporation losses in Vidarbha.

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- In Madhya Pradesh, provide light and frequent irrigation in wheat and chickpea during critical stages. Complete harvesting of matured mustard during morning/evening hours and keep the produce in safe places.
- In Chhattisgarh, provide light and frequent irrigation in standing crops such as wheat, chickpea, lentil and mustard to minimize heat stress and maintain adequate soil moisture.
- In Arunachal Pradesh, provide regular irrigation to winter vegetables (cabbage, cauliflower, tomato) during early morning or evening hours. Undertake harvesting of matured mustard crops and keep harvested produce in safe places.
- In Assam, maintain optimum water level (2–5 cm) in Boro rice fields.
- In Andhra Pradesh, apply light irrigation in rabi maize, groundnut, and pulses to avoid moisture stress. Apply mulching or light watering to conserve soil moisture in standing rabi crops under dry and sunny conditions. Maintain a standing water depth of about 5 cm in the main field during the tillering stage in rice.
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

#### Livestock / Poultry

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

**Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.

**Obsy:** Observatory; **Automatic Weather Station;** **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.

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

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

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

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

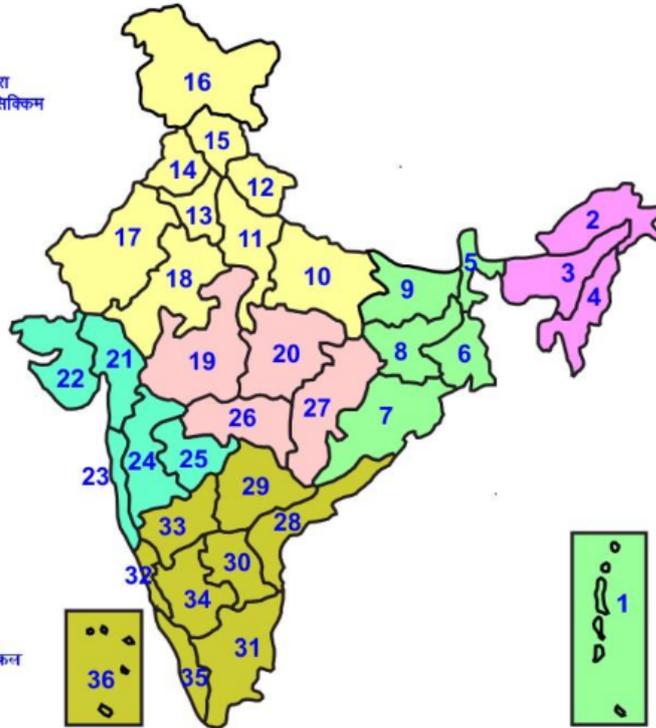
**Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

**West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.

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

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

### Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

- |                          |                 |                      |                    |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain               | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow         |
| Thunderstorm & Lightning | Hailstorm       | Dust Storm           | Dust Raising Winds |
| Strong surface winds     | Heat Wave       | Hot Day              | Warm Night         |
| Cold Wave                | Cold Day        | Ground Frost         | Fog                |
| Hot & Humid              |                 |                      |                    |

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## LEGENDS

### WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*



When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .  
Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$   
Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres  
Dense Fog: when the visibility between 50- 200 metres  
Very Dense Fog: when the visibility  $< 50$  metres



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph  
Severe: Wind speed 62-87 kmph  
Very Severe: Wind speed  $> 87$  kmph



Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  
High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  
Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)  
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)  
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)  
Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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