

Monday, March 3, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Temperature:

- ❖ Yesterday, the Maximum temperatures were in the range of 35-40°C at many places over Peninsular India, Odisha; at a few places over Chhattisgarh; at isolated places over Gujarat state; 30-35°C at most places over Madhya Pradesh; many places over Bihar, Gangetic West Bengal, East Uttar Pradesh; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Jharkhand. Yesterday, the highest maximum temperature of 38.6°C reported at Brahmapuri (Vidarbha) over the plains of the country.
- ❖ Yesterday, the maximum temperatures has fallen by 1-3°C at many places over East Rajasthan, Madhya Pradesh; at a few places over Madhya Maharashtra; at isolated places over Odisha, Chhattisgarh, Jharkhand, East Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura. It has risen by 2-4°C at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand; at a few places over West Uttar Pradesh; rise by upto 2°C at many places over Telangana, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya; at a few places over Madhya Maharashtra and no significant change over rest parts of the country.

Weather Systems, Forecast and warning:

- ❖ The **Western Disturbance** as a trough in lower to upper tropospheric levels with its axis at 3.1 km above mean sea level runs roughly along Long. 57°E to the north of Lat. 30°N. Under its influence;
- ❖ **Isolated to Scattered** light/moderate rainfall/snowfall accompanied with isolated **thunderstorms and lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh & Uttarakhand on 03rd & 04th; with **hailstorm** over Punjab on 03rd; **Isolated heavy rainfall/snowfall likely at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 03rd March.**

Temperature Forecast:

Maximum temperature:

- ❖ Gradual fall in maximum temperatures by 2-4°C likely over Northwest India during 3-4 days and no significant change thereafter.
- ❖ Gradual fall in maximum temperatures by 2-4°C likely over Central India during 3-4 days no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over Maharashtra region during next 24 days and gradual fall by about 2-4°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Andhra Pradesh region during next 48 hours and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over rest parts of India during next 4-5 days.

Heat Wave and Hot & Humid weather warnings:

- ❖ **Coastal Karnataka: Heat wave conditions** very likely in isolated pockets over on 03rd March and **hot & humid weather** on 04th & 05th March.
- ❖ **Konkan & Goa: Hot and humid weather** very likely to prevail during 03rd -05th March.

Fishermen Warnings:

- ❖ **Squally Weather With Wind Speed Reaching 35 To 45 Gusting To 55 Kmph** Likely To Prevail Over Southeast Arabian Sea & Adjoining Maldives, Lakshadweep Areas on 03rd March.

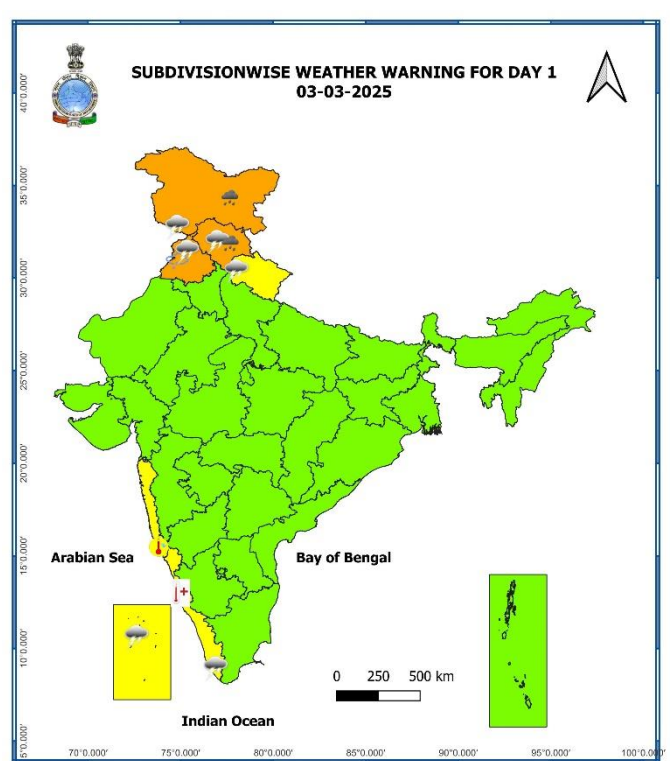
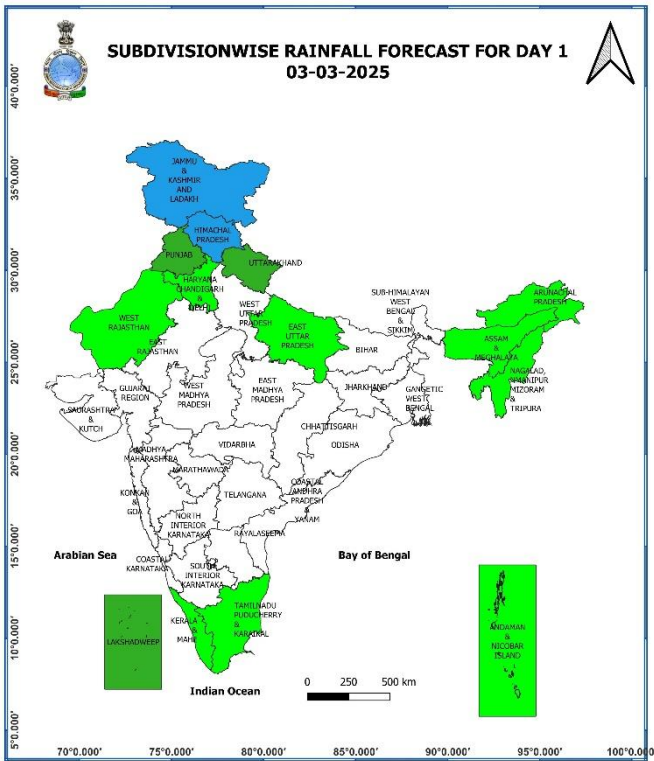
Main Weather Observations:

- ❖ **Rainfall/snowfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at isolated places** over Arunachal Pradesh.
- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at isolated places** over Lakshadweep, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala:** Thiruvananthapuram-6.
- ❖ **Minimum Temperature Departures (as on 02-03-2025):** Minimum temperatures were Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over East Madhya Pradesh, Gujarat Region; at isolated places over Rajasthan, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gangetic West Bengal, Jharkhand, Tamilnadu Puducherry & Karaikal, Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at a few places over East Uttar Pradesh, Saurashtra & Kutch, Odisha, Andaman & Nicobar Islands; at isolated places over Bihar, West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim. These were **below normal (-3.0°C to -1.6°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Telangana and near normal over rest parts of the country. **(Fig. 4)**. Yesterday, the **lowest minimum temperature** of **8.3°C** was reported **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 02-03-2025):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jharkhand; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Coastal Karnataka; at isolated places over Gangetic West Bengal, Konkan & Goa; **above normal (1.6°C to 3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim, Bihar, Chhattisgarh, East Madhya Pradesh; at a few places over Assam & Meghalaya, Vidarbha; at isolated places over East Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Telangana, Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka. These were **markedly below normal (-5.1°C or less)** at isolated places over Arunachal Pradesh, Kerala & Mahe; **below normal (-3.0°C to -1.6°C)** at isolated places over Rajasthan, Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country **(Fig. 2)**. Yesterday, the highest **maximum temperature** of **38.6°C** was reported at **Brahmapuri (Vidarbha)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

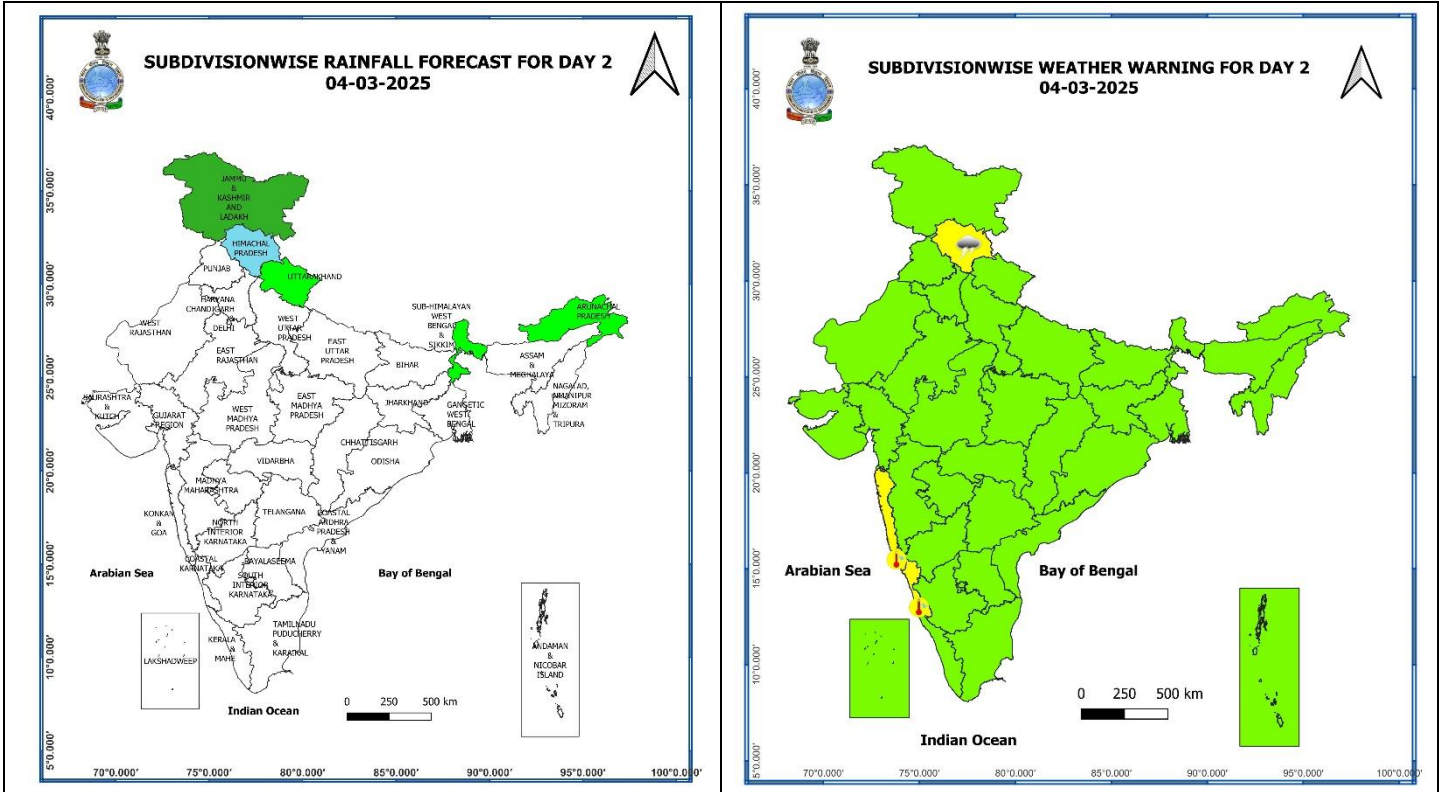
- ❖ The **Western Disturbance** as a trough in lower to upper tropospheric levels with its axis at 3.1 km above mean sea level now runs roughly along Long. 57°E to the north of Lat. 30°N.
- ❖ The upper air **cyclonic circulation** over West Equatorial Indian Ocean & adjoining Comorin-Maldives area now lies over West Equatorial Indian Ocean & adjoining Maldives area and extends upto 5.8 km above mean sea level.
- ❖ The **cyclonic circulation** over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The **trough** in easterlies from above cyclonic circulation to Lakshadweep area at 0.9 km above mean sea level has become less marked.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 10th March, 2025)



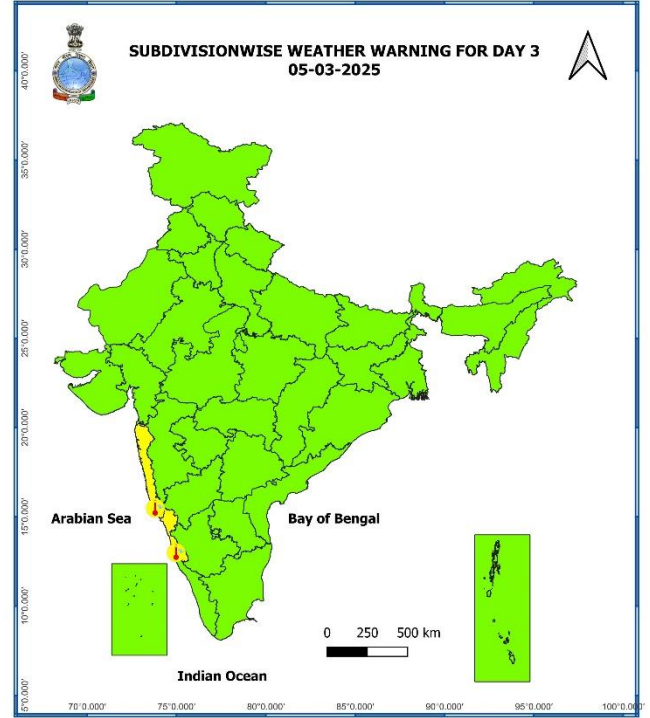
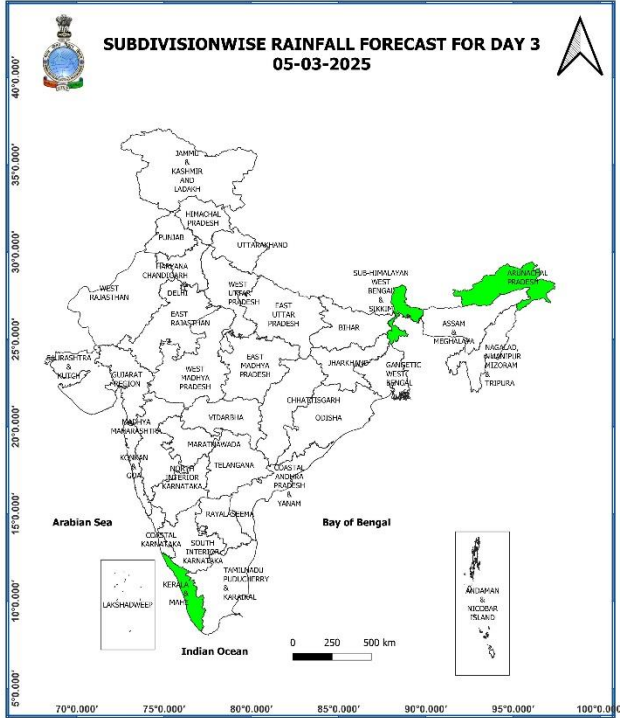
03rd March (Day 1):

- ❖ **Heavy Rainfall (≥ 7 cm)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Punjab; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Kerala & Mahe and Lakshadweep.
- ❖ **Heat wave condition** very likely over Coastal Karnataka.
- ❖ **Hot & Humid conditions** very likely in isolated pockets of Konkan & Goa.
- ❖ **Squally weather with wind speed reaching 35 to 45 gusting to 55 kmph** very likely to prevail over southeast Arabian sea & adjoining Maldives, Lakshadweep areas. Fishermen are advised not to venture into these areas.



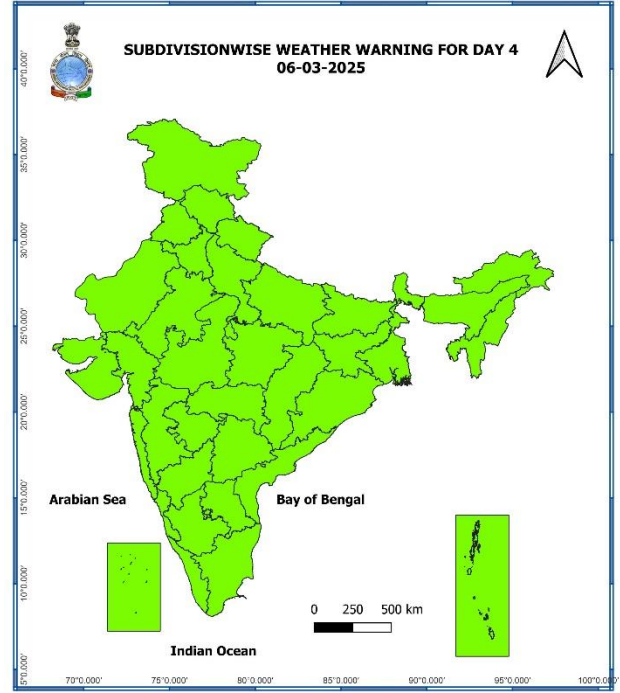
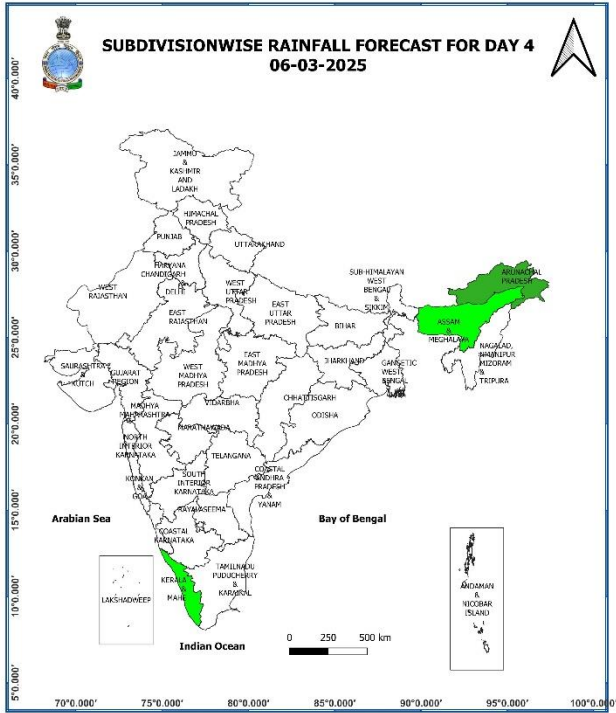
04th March (Day 2):

- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Himachal Pradesh.
- ❖ **Hot & Humid conditions** very likely in isolated pockets of Coastal Karnataka and Konkan & Goa.



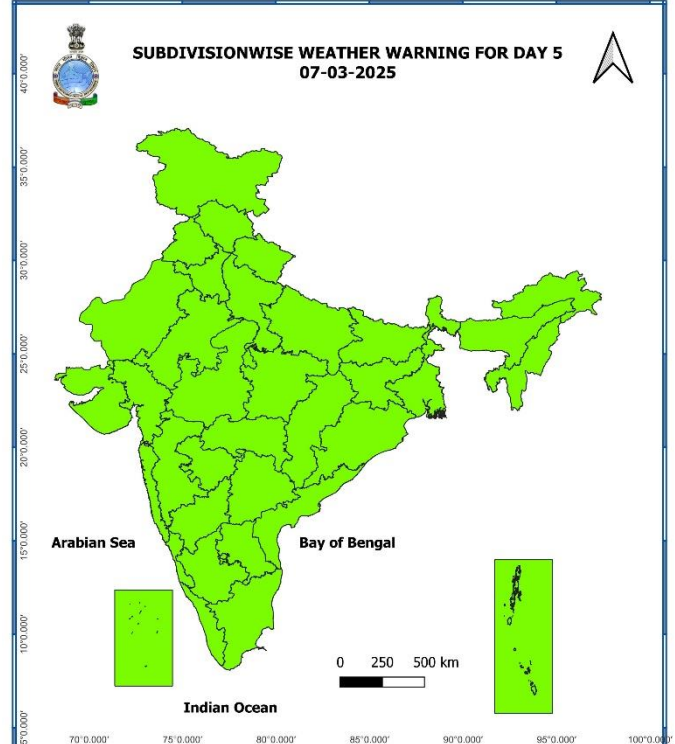
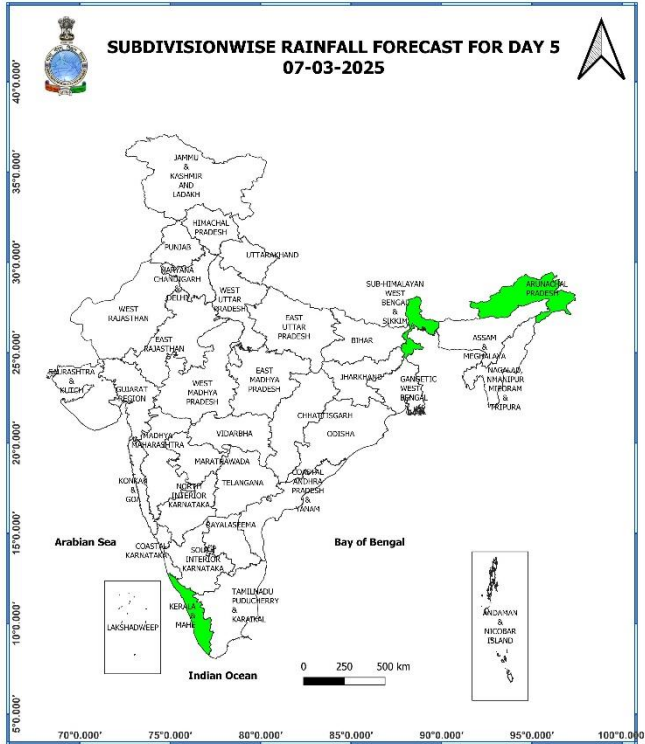
05th March (Day 3):

❖ **Hot & Humid conditions** likely in isolated pockets of Coastal Karnataka and Konkan & Goa.



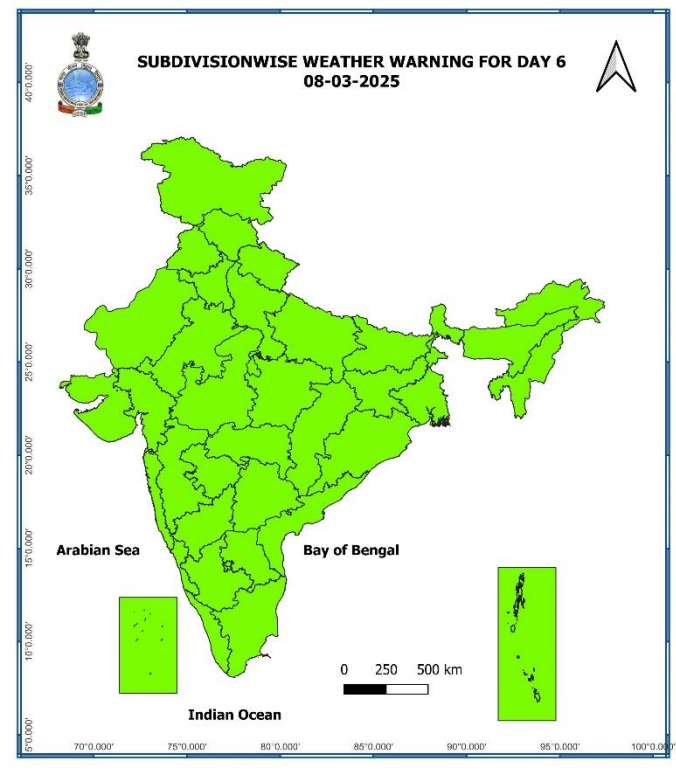
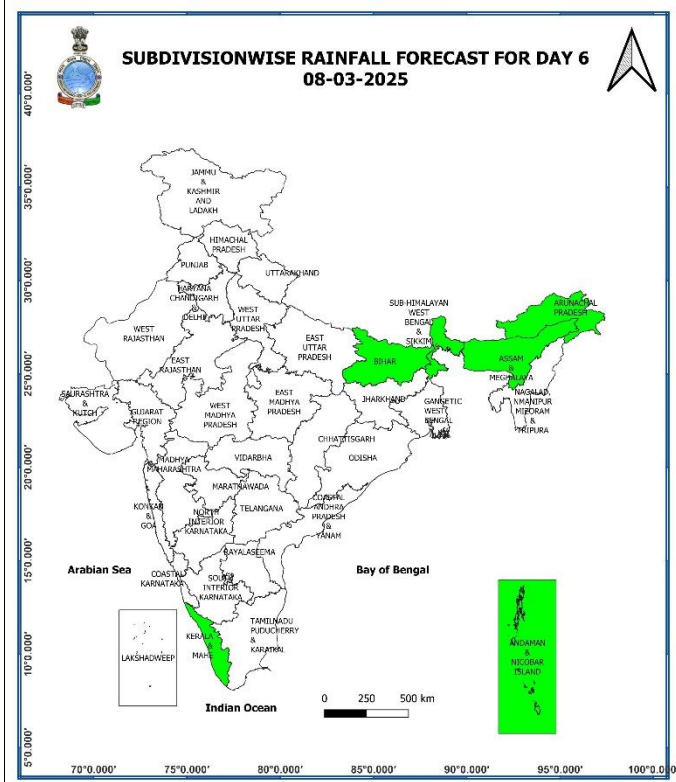
06th March (Day 4):

❖ **No Weather Warning.**



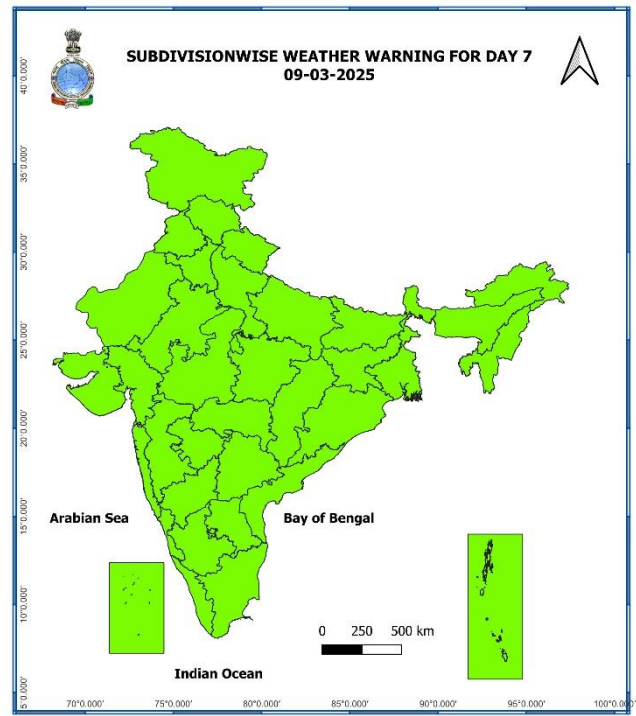
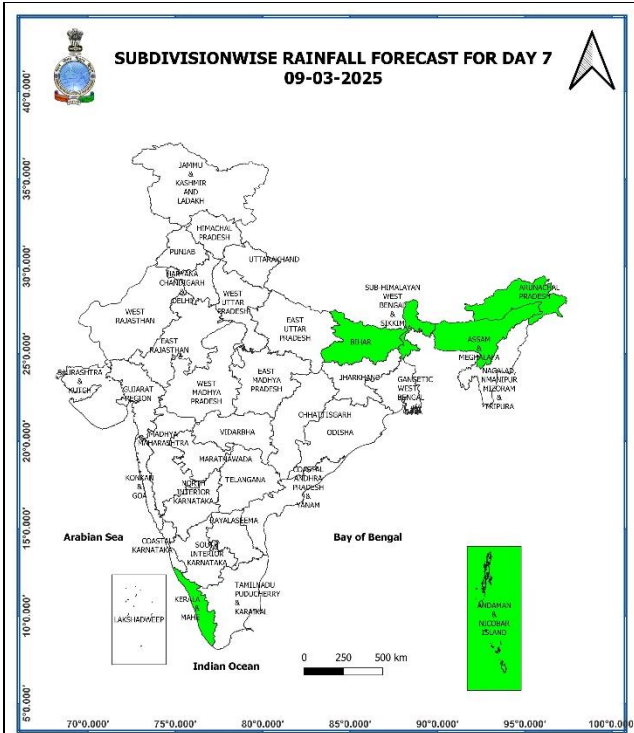
07th March (Day 5):

❖ **No Weather Warning.**



08th March (Day 6):

❖ **No Weather Warning.**



09th March (Day 7):

❖ **No Weather Warning.**

Weather Outlook for subsequent 3 days (During 10th March- 12th March, 2025)

- ❖ **Scattered to fairly widespread rainfall/snowfall** likely over Western Himalayan region.
- ❖ **Isolated to scattered rainfall** likely over plains of Northwest India, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

Action may be taken based on **ORANGE AND RED** COLOUR warnings.

- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

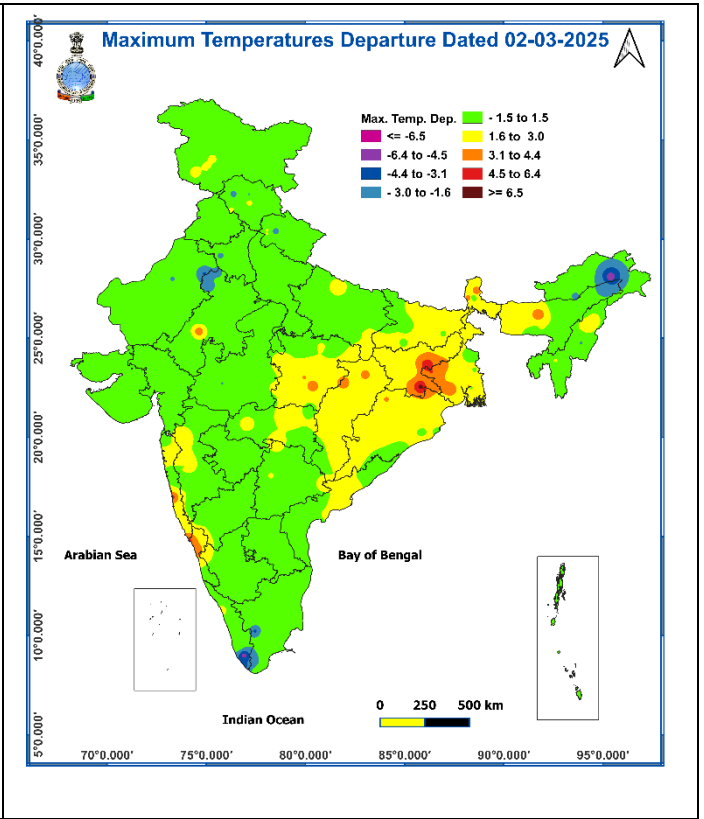
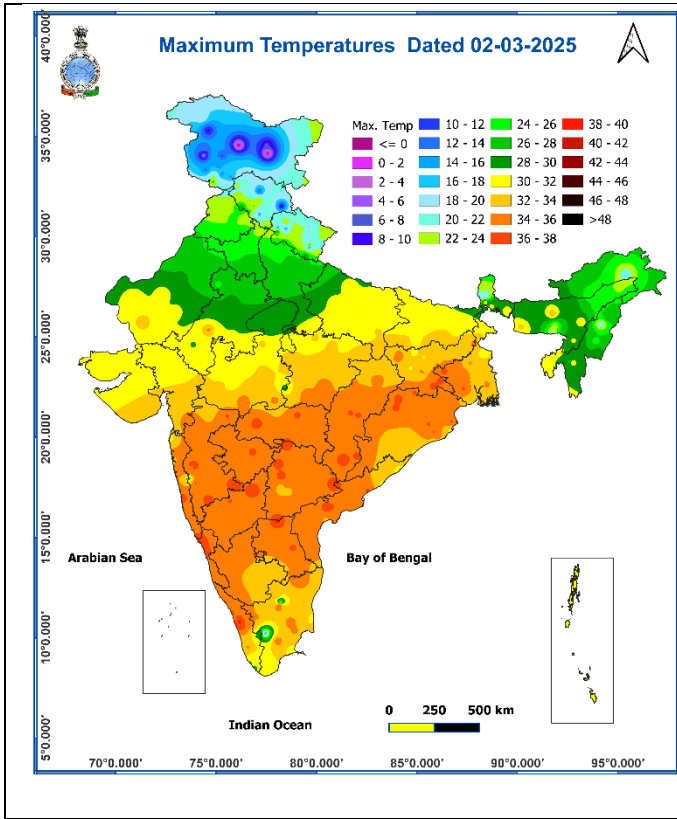
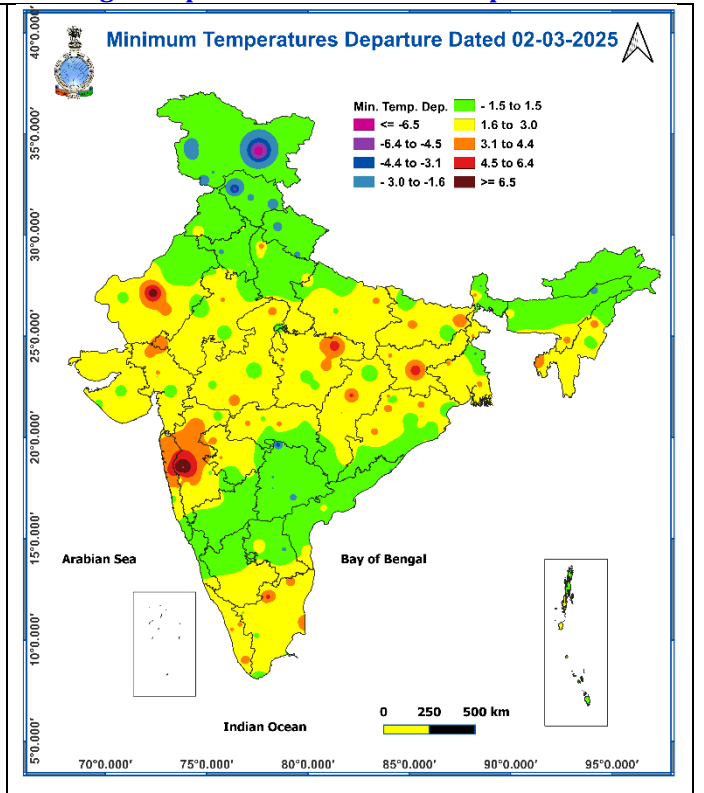
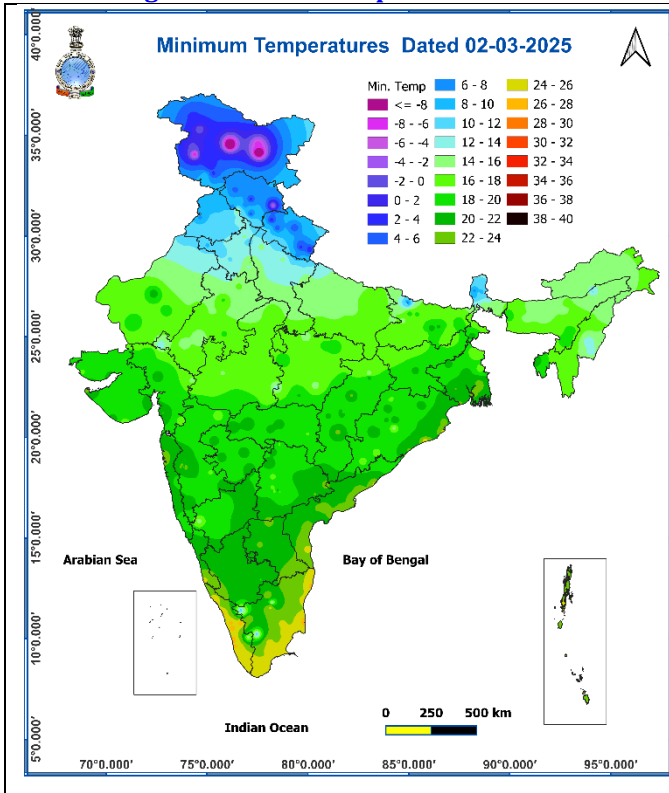


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



Agromet advisories for likely impact of Heavy Rainfall / Snowfall / Hailstorm / Heat Wave

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Punjab**.
- Make provision for draining out excess water from the standing crop fields in **Jammu and Kashmir, Himachal Pradesh** and **Lakshadweep**. In the regions of heavy snowfall, shake the fruit bearing trees to remove snow immediately from the branches.
- In **Coastal Karnataka**, apply light and frequent irrigation to standing crops in the evening to protect them from heat waves.
- Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock and Fishery

- 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.
- Check and disinfect poultry houses to avoid disease outbreaks due to dampness.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

Impact & Action Suggested due to heavy rainfall/ snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 03rd 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 thunderstorm with lightning/gusty winds & hailstorm over Punjab on 03rd March.

Impact expected:

- 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:

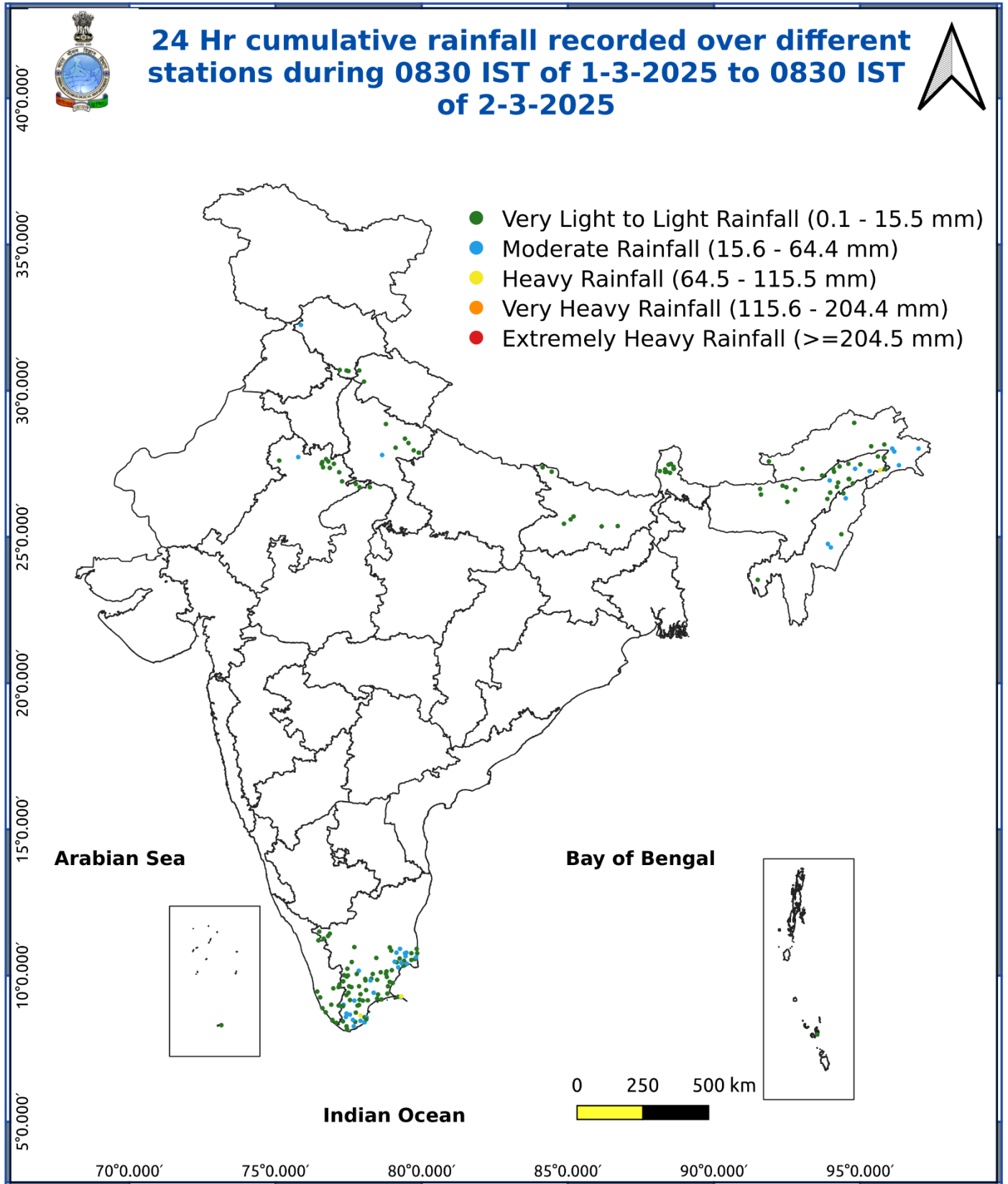
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

Impact expected and action suggested due to Heat Wave conditions over Coastal Karnataka on 03rd March.

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

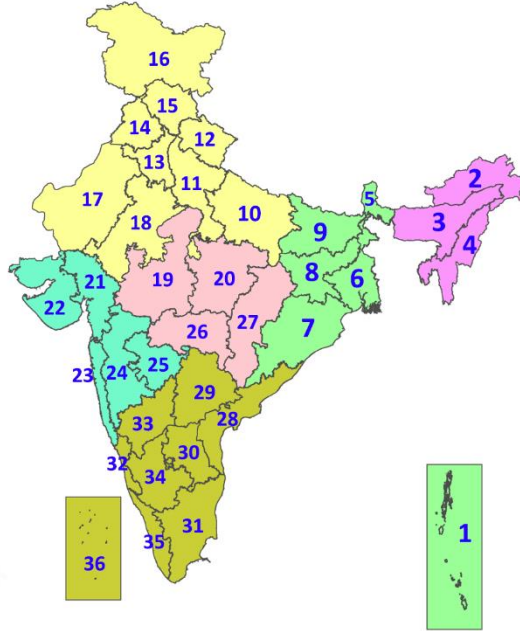
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
(Service to the Nation since 1875)

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और 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. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & 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. Marathwada
26. Vidarbha
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)

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

COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
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

DEFINITION/CRITERIA

Rain/ Snow *	<p>Heavy: 64.5 to 115.5 mm/cm *</p> <p>Very Heavy: 115.6 to 204.4 mm/cm*</p> <p>Extremely Heavy: > 204.4 mm/cm *</p>
Heat Wave	<p>When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions</p> <p>(a) Based on Departure from normal</p> <p>Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C.</p> <p>Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$</p> <p>(b). Based on Actual maximum temperature</p> <p>Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.</p> <p>Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$</p> <p>(c). Criteria for heat wave for coastal stations</p> <p>When maximum temperature departure is $>4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$</p>
Warm Night	<p>When maximum temperature remains 40°C</p> <p>Warm Night: When minimum temperature departure 4.5°C to 6.4°C.</p> <p>Severe Warm Night: When minimum temperature departure $>6.4^\circ\text{C}$.</p>
Cold Wave	<p>When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.</p> <p>(a). Based on departure</p> <p>Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$</p> <p>(b) Based on actual Minimum Temperature (for Plains only)</p> <p>Cold Wave : When Minimum Temperature is $\leq 4.0^\circ\text{C}$</p> <p>Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$</p> <p>(c) For Coastal Stations</p> <p>When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$</p>
Cold Day	<p>When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions</p> <p>Based on departure</p> <p>Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$</p>
Fog	<p>Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$</p> <p>Moderate Fog: When the visibility between 500-200 metres</p> <p>Dense Fog: when the visibility between 50- 200 metres</p> <p>Very Dense Fog: when the visibility < 50 metres</p>
Thunderstorm	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
Dust/Sand Storm	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
Frost	<p>Ice deposits on ground</p> <p>Air temperature $\leq 4^\circ\text{C}$ (over Plains)</p>
Squall	<p>A strong wind that rises suddenly, lasts for atleast 1 minute.</p> <p>Moderate: Wind speed 52-61 kmph</p> <p>Severe: Wind speed 62-87 kmph</p> <p>Very Severe: Wind speed >87 kmph</p>
Sea State	<p>Effect of various waves in the sea over specific area</p> <p>Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre</p> <p>High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre</p> <p>Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre</p>
Cyclone	<p>Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)</p> <p>Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)</p> <p>Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)</p> <p>Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)</p> <p>Super Cyclone Strom: Wind speed >220 kmph (>119 knots)</p>