

Tuesday, February 25, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Temperature:

- ❖ During the past 24 hours, Day temperatures had fallen by 1-2°C at many places over coastal Andhra Pradesh, West Madhya Pradesh and Andaman & Nicobar Islands. It had raised by 1-3°C at many places along the west coast, Telangana, Northwest India, East Madhya Pradesh, Interior Odisha, Gangetic West Bengal and Northeast India.
- ❖ During past 24 hours, Night temperatures had fallen by 1-4°C at a few places over East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, Coastal Karnataka, Coastal Andhra Pradesh & Yanam; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Ladakh and it had raised by 1-3°C over many parts of Madhya Pradesh; at a few places over Jammu-Kashmir, Himachal Pradesh, Rajasthan, Haryana, Punjab; at isolated places over Uttarakhand, Gangetic West Bengal, Odisha, Kerala & Mahe and no significant change over remaining parts of the country.
- ❖ Maximum temperatures were in the range of 35-39°C over many parts of West & south Peninsular India, south Odisha, South Chhattisgarh; 30-35°C over many parts of south Rajasthan, Madhya Pradesh, coastal Odisha, North Chhattisgarh, south Gangetic West Bengal; 25-30°C over remaining parts of the plains of the country.

Weather Systems, Forecast and warning:

- ❖ A Western Disturbance seen as a trough in lower to upper tropospheric levels with its axis at 3.1 Km above mean sea level roughly along Long. 49°E to the north of Lat. 28°N. High moisture feeding is also likely over Western Himalayan Region in lower tropospheric levels from Arabian Sea mainly during 25th -28th February, 2025. As a result;
 - ✓ **Fairly widespread to widespread** light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 25th-28th; Uttarakhand during 26th-28th February.
 - ✓ **Heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 25th-28th; Himachal Pradesh during 26th-28th; Uttarakhand on 27th & 28th February with isolated **very heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 27th February.
 - ✓ **Isolated to scattered** light to moderate rainfall likely over Punjab, Haryana, Chandigarh during 26th February-01st March; over West Uttar Pradesh & Rajasthan during 27th February-01st March and East Uttar Pradesh on 28th February & 01st March. Thunderstorm & lightning activity also likely over Punjab & Haryana during 26th-28th; north Rajasthan on 27th & 28th February.
- ❖ A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under its influence;
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 25th February.
- ❖ Under the influence of an active easterly wave;
 - ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning** very likely over Andaman & Nicobar Islands during 25th-26th February. **Heavy rainfall** at isolated places likely over Andaman & Nicobar Islands on 25th February.
- ❖ **Scattered to Fairly widespread** light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Tamilnadu Puducherry & Karaikal and Kerala & Mahe during 27th February to 01st March with isolated Heavy rainfall on 28th February & 01st March.

Temperature Forecast:

Forecast of temperature:

Minimum Temperature:

- ❖ Gradual rise in minimum temperatures by 3-5°C likely over Northwest India during next 3 days and gradual fall by 2-3°C thereafter.
- ❖ No significant change in minimum temperatures likely over rest parts of India during next 3-4 days

Maximum temperature:

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

Hot & Humid conditions: Hot & Humid conditions likely over isolated pockets of Coastal Karnataka during 25th -26th; Gujarat State during 25th-28th February.

Heat wave condition likely over isolated pockets of Konkan & Goa on 25th & 26th February.

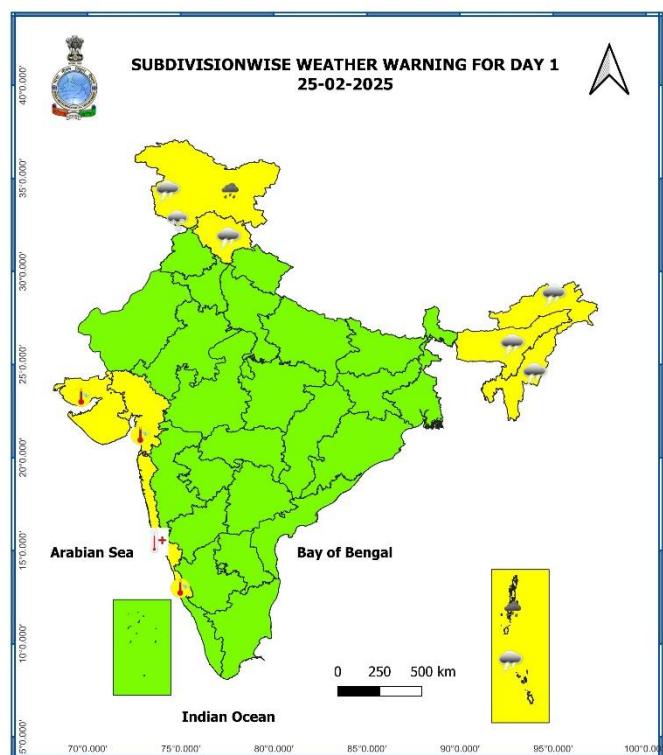
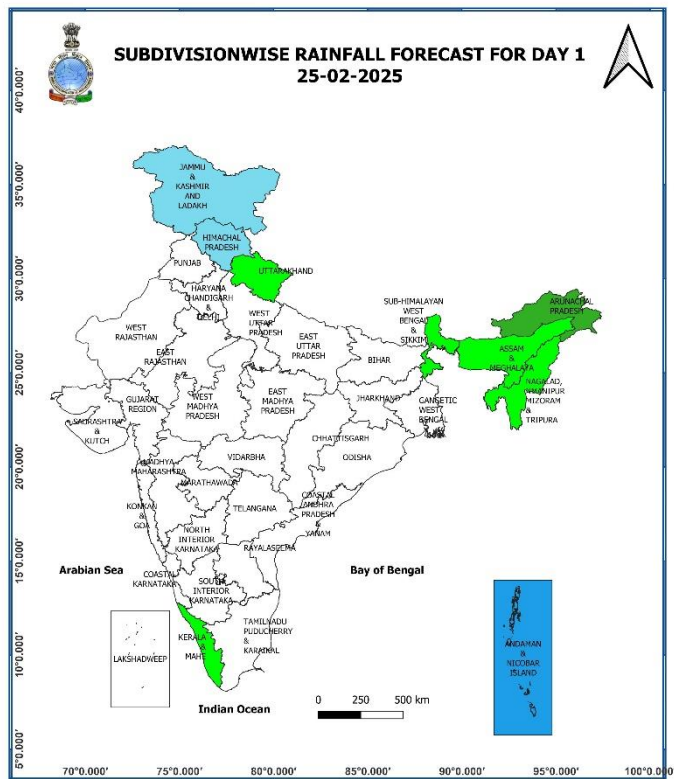
Main Weather Observations:

- ❖ **Rainfall/snowfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Andaman & Nicobar Islands and Sikkim.
- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **NIL**.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm):
Andaman & Nicobar Islands: Port Blair 2.
- ❖ **Hailstorms reported** at isolated places over Arunachal Pradesh and Assam.
- ❖ **Ground Frost reported** at isolated places over Himachal Pradesh (Bilaspur).
- ❖ **Thunderstorm with lightning** reported at many places over Northeast India; at isolated places over Gangetic West Bengal, Odisha and Telangana.
- ❖ **Gusty wind (in knots)** observed: **Assam: North Lakhimpur-34**
- ❖ **Minimum Temperature Departures (as on 24-02-2025):** Minimum temperatures were **appreciably above normal** (3°C to 5°C) at a few places over Gujarat State; at isolated places over Bihar & West Madhya Pradesh; **above normal** (1°C to 3°C) at a few places over West Rajasthan, Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Tamilnadu Puducherry & Karaikal; at isolated places over Jammu-Kashmir, West Uttar Pradesh, Punjab, Madhya Maharashtra, Marathawada, Konkan & Goa, Karnataka, Kerala & Mahe. These were **below normal** (-3°C to -1°C) at a few places over Vidarbha; at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Chhattisgarh, Telangana, Assam & Meghalaya and near normal over rest parts of the country (Fig. 4). Yesterday, the **lowest minimum temperature** of 7.5°C was reported at **Faridkot (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 24-02-2025):** Maximum temperatures were **markedly above normal** (5.1°C or more) at few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Konkan & Goa; **appreciably above normal** (3.1°C to 5.0°C) at many places over Saurashtra & Kutch; at a few places over West Rajasthan and Gujarat Region; at isolated places over Coastal Karnataka; **above normal** (1.6°C to 3.0°C) at many places over Telangana and Kerala & Mahe; at a few places over Punjab, East Rajasthan, Delhi, West Uttar Pradesh, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; at isolated places over East Uttar Pradesh, Odisha, Gangetic West Bengal, North Interior Karnataka and Assam & Meghalaya and near normal over rest parts of the country (Fig. 2). Yesterday, the highest **maximum temperature** of 40.4°C was reported at **Kannur Airport (Kerala)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

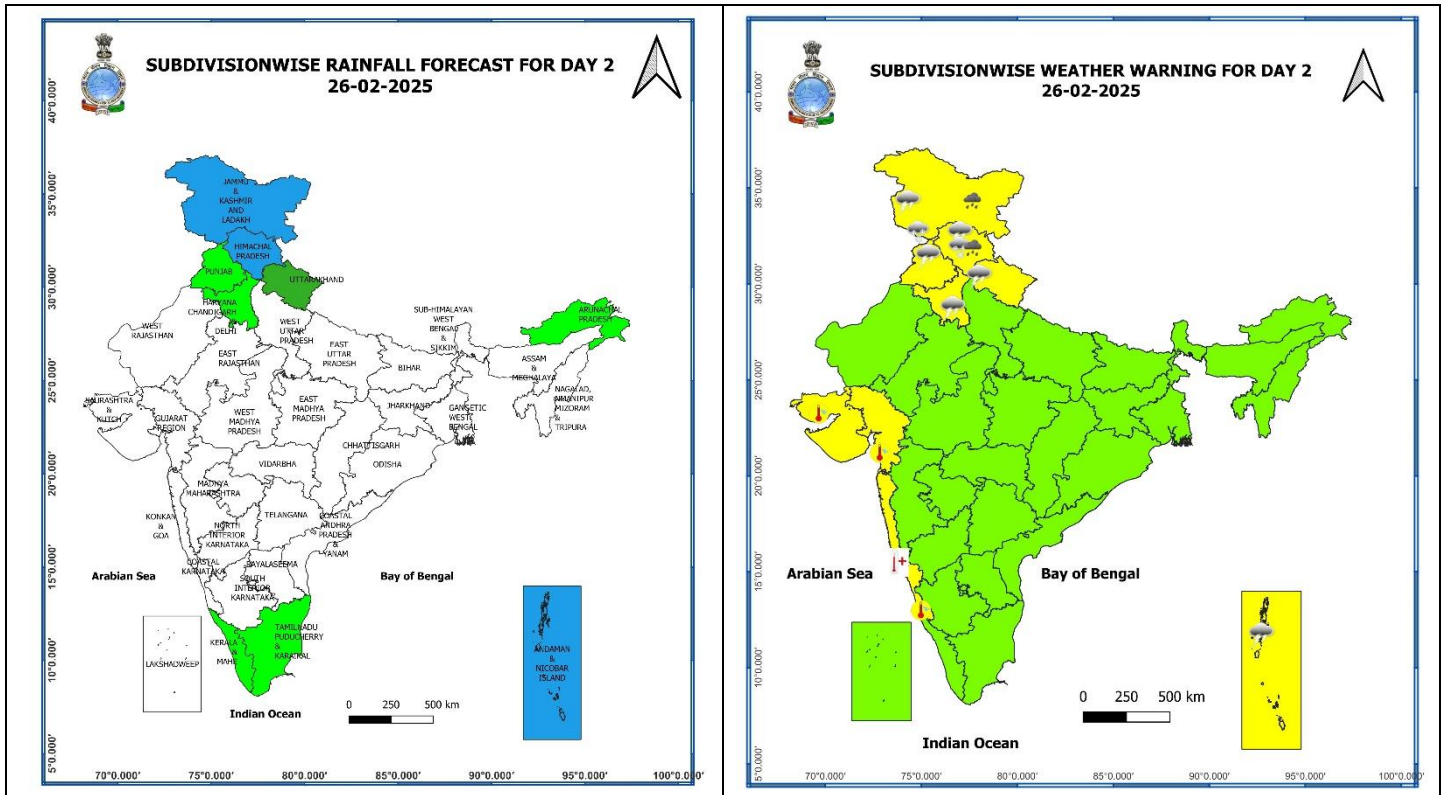
- ❖ The **Western Disturbance** as a trough in lower to upper tropospheric levels with its axis at 3.1 km above mean sea level now runs roughly along Long. 49°E to the north of Lat. 28°N.
- ❖ The upper air **cyclonic circulation** over South Pakistan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over northeast Assam & neighbourhood at 1.5 km above mean sea level persists.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 04th March, 2025)



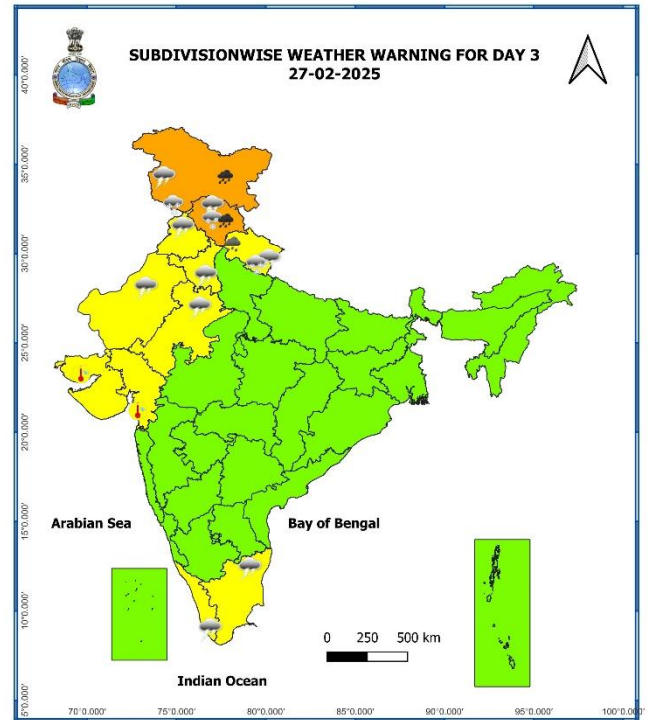
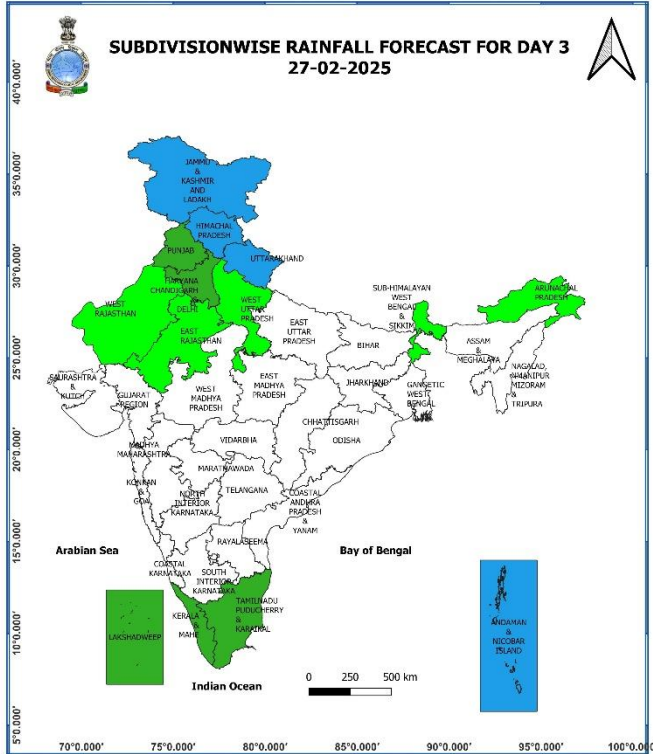
25th February (Day 1):

- ❖ **Heavy Rainfall/Snowfall (≥ 7 cm)** very likely at isolated places of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and **Heavy Rainfall (≥ 7 cm)** likely at isolated places of Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hot & Humid conditions** very likely at isolated pockets of Saurashtra & Kutch, Gujarat Region and Coastal Karnataka.
- ❖ **Heat wave conditions** likely at isolated pockets of Konkan & Goa.
- ❖ **Squally weather with wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** very likely to prevail over gulf of Mannar & adjoining Comorin area, along and off south Tamil Nadu coast, over south Andaman Sea and adjoining parts of north Andaman Sea, over some parts of southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



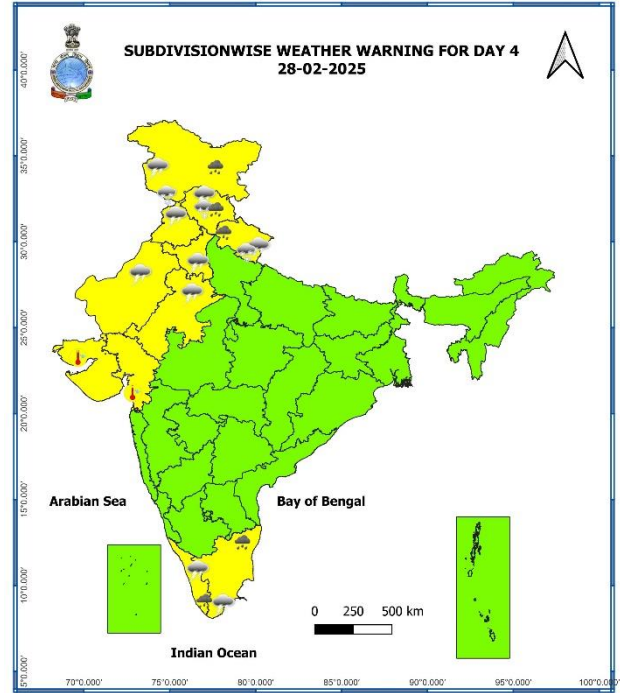
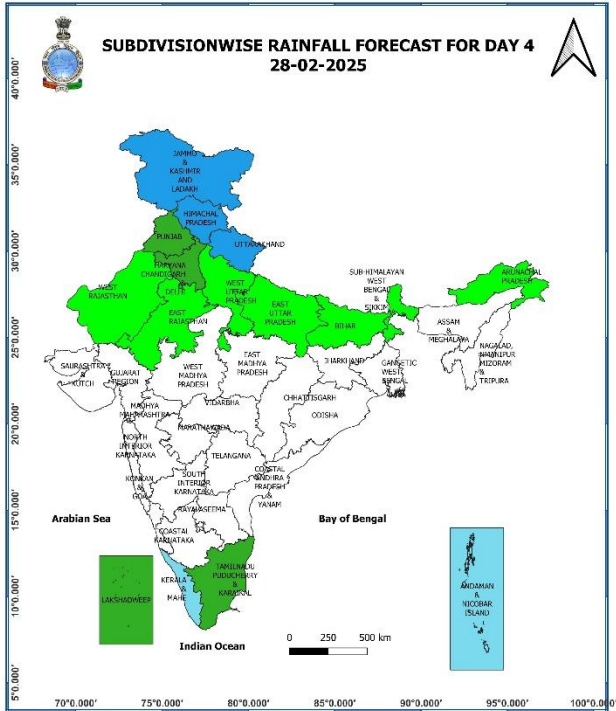
26th February (Day 2):

- ❖ **Heavy Rainfall/Snowfall (≥ 7 cm)** likely at isolated places of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Andaman & Nicobar Islands.
- ❖ **Hot & Humid conditions** very likely at isolated pockets of Saurashtra & Kutch, Gujarat Region and Coastal Karnataka.
- ❖ **Heat wave conditions** likely at isolated pockets of Konkan & Goa.
- ❖ **Squally weather with wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** very likely to prevail over gulf of Mannar & adjoining Comorin area, along and off south Tamil Nadu coast, over south Andaman Sea & adjoining north Andaman Sea, over many parts of southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



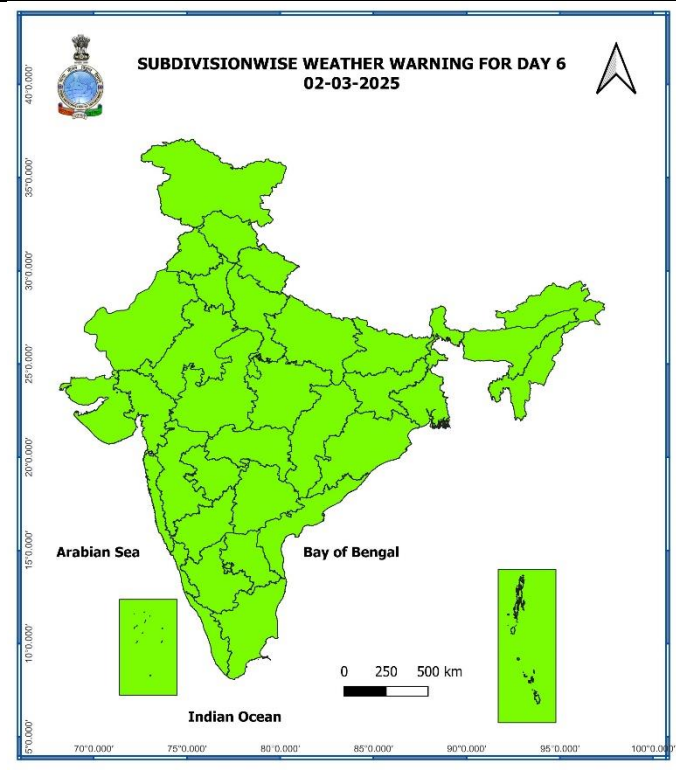
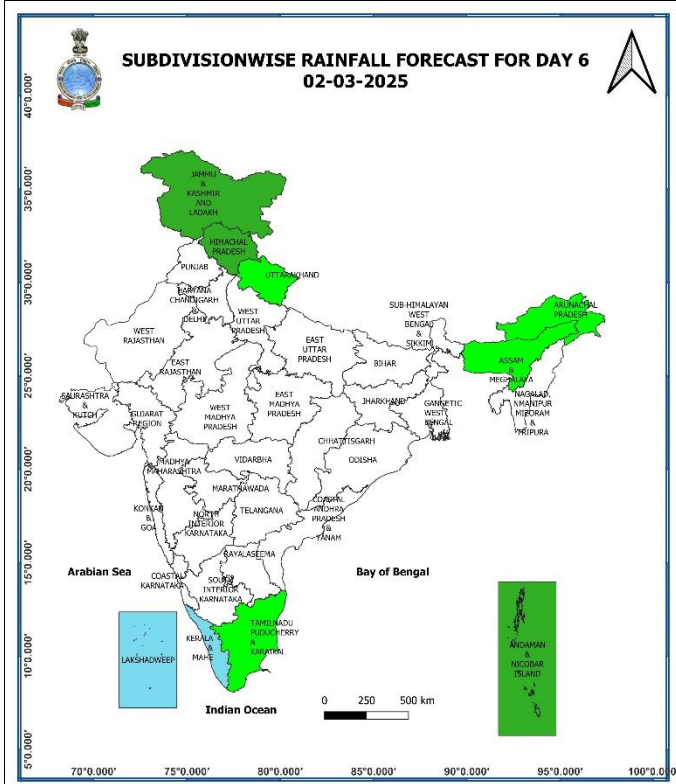
27th February (Day 3):

- ❖ **Very Heavy Rainfall/Snowfall (≥ 12 cm)** likely at isolated places of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; **Heavy Rainfall/Snowfall (≥ 7 cm)** likely at isolated places of Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan; **Thunderstorm** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Hot & Humid conditions** very likely at isolated pockets of Saurashtra & Kutch and Gujarat Region.
- ❖ **Squally weather with wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** likely to prevail over gulf of Mannar & adjoining Comorin area, along and off south Tamil Nadu coast, over south Andaman Sea, over many parts of southeast Bay of Bengal, northern parts of southwest Bay of Bengal. Fishermen are advised not to venture into these areas.



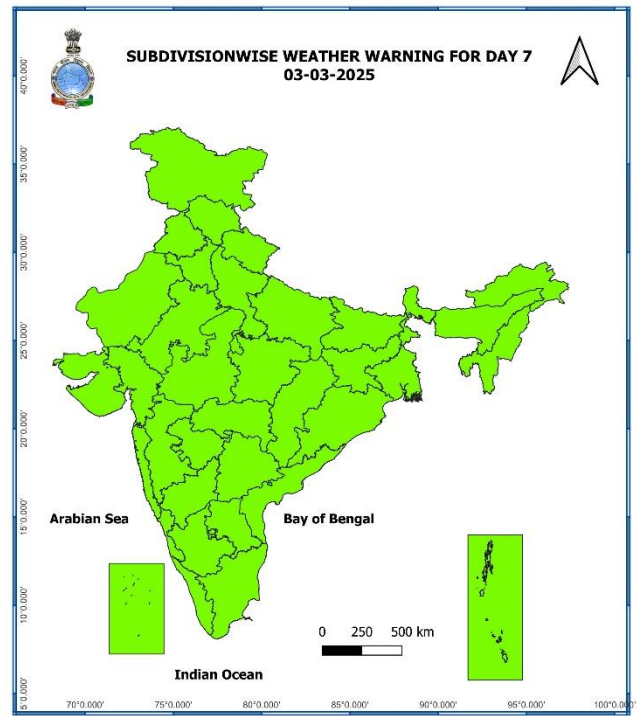
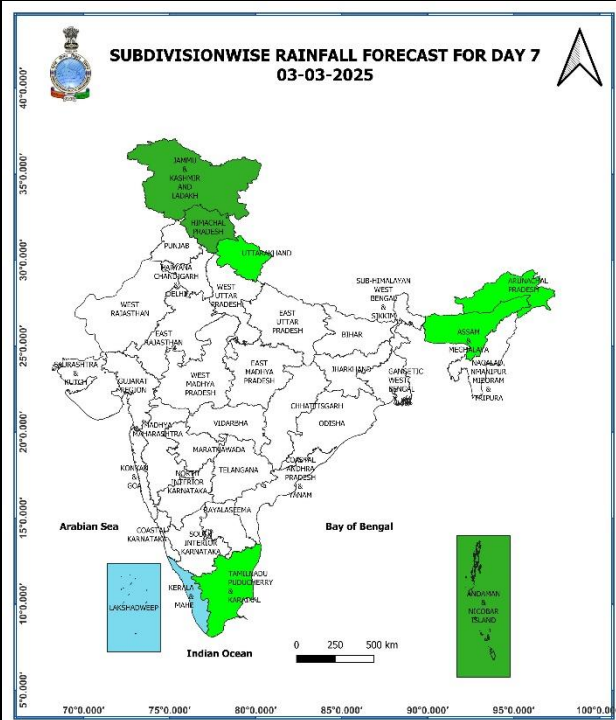
28th February (Day 4):

- ❖ **Heavy Rainfall/Snowfall (≥ 7 cm)** likely at isolated places of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand; **Heavy Rainfall (≥ 7 cm)** likely at isolated places of Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan; **Thunderstorm** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Hot & Humid conditions** very likely at isolated pockets of Saurashtra & Kutch and Gujarat Region.



02nd March (Day 6):

❖ **No Weather Warning.**



03rd March (Day 7):

❖ **No Weather Warning.**

Weather Outlook for subsequent 3 days (During 04th March- 06th 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

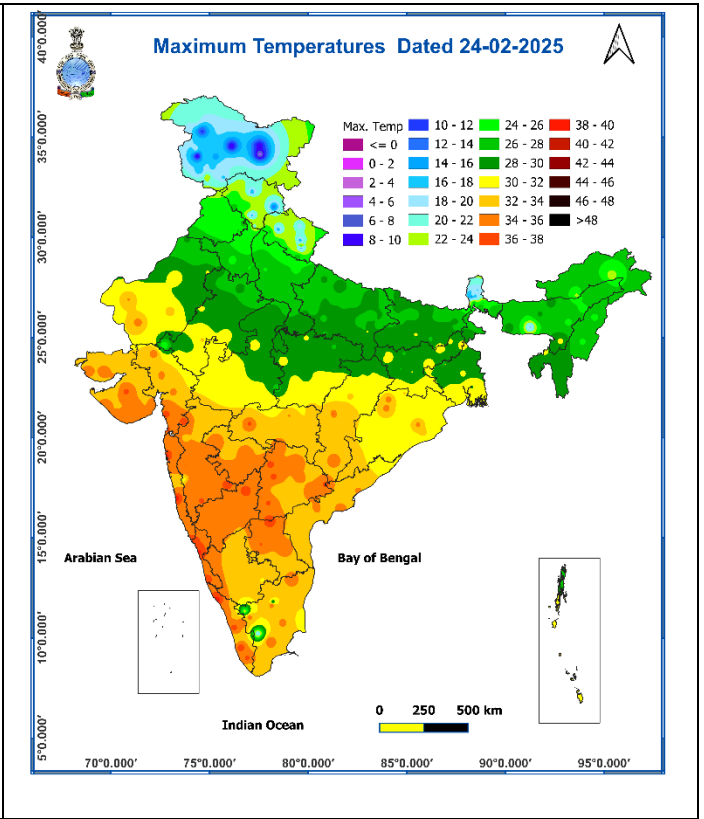
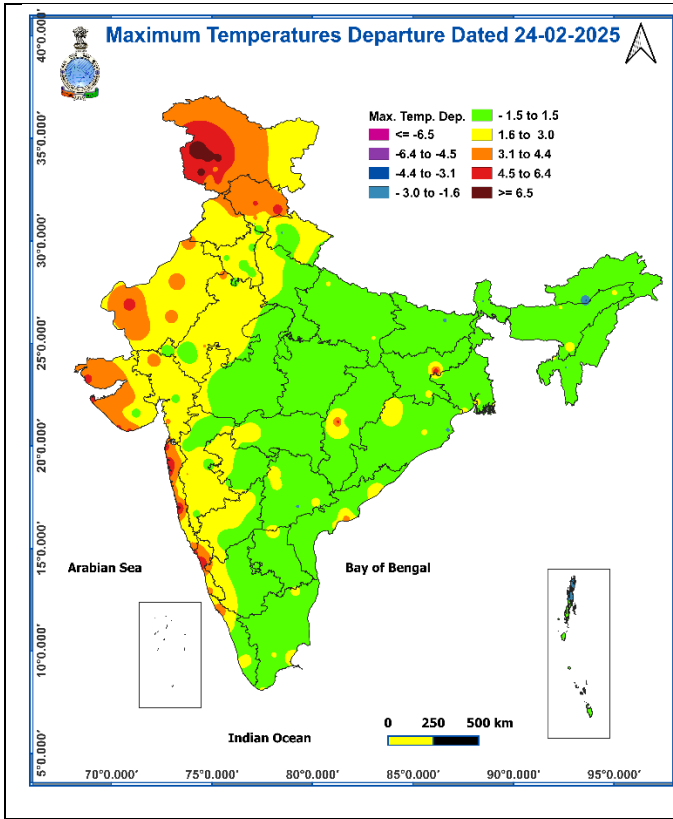
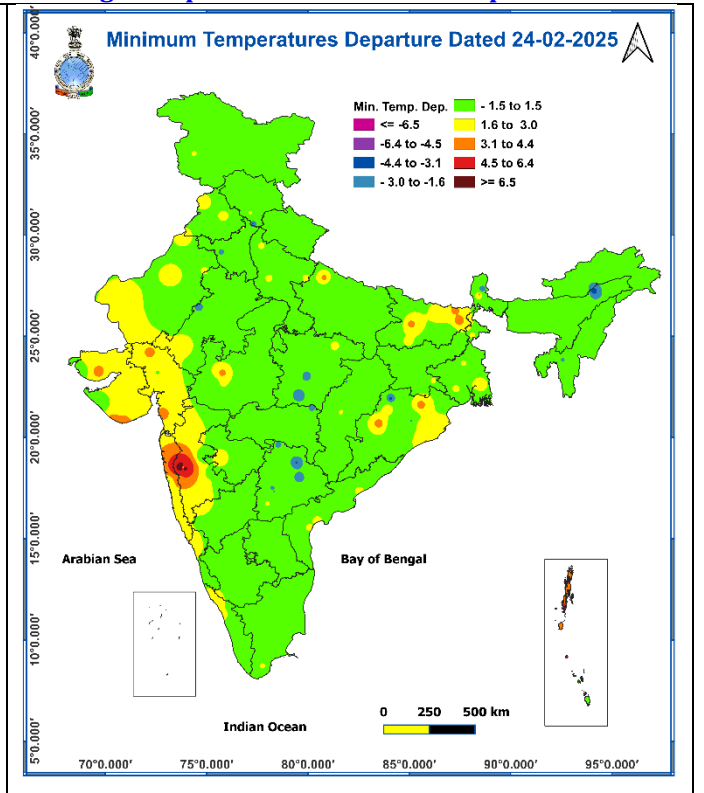
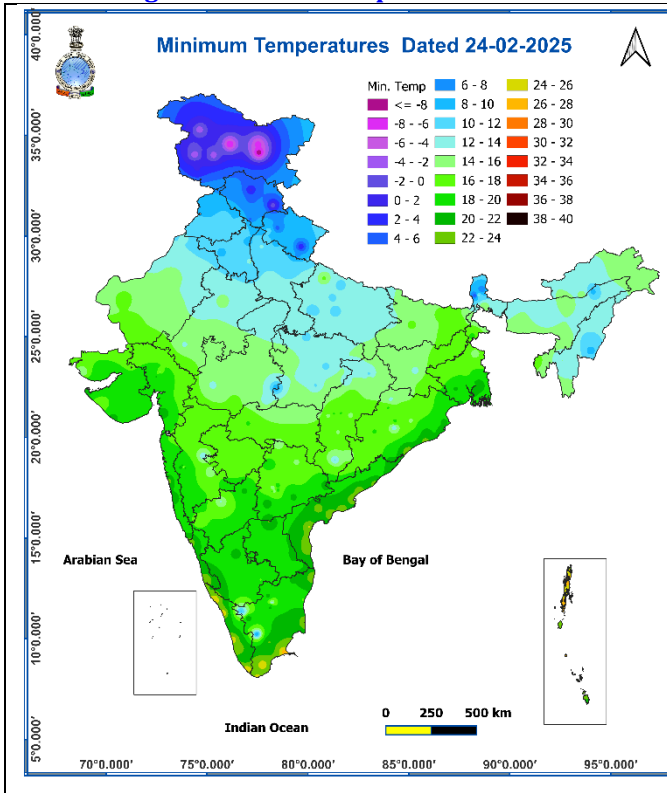


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



Agromet advisories for likely impact of Hailstorms/Heavy Rainfall

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Arunachal Pradesh** and **East Assam**.
- Complete harvesting of matured rapeseed in **Uttarakhand** and Cole crops in **Himachal Pradesh**.
- Make provision for draining out excess water from the standing crop fields in **Jammu and Kashmir, Himachal Pradesh and Uttarakhand**.
- 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.

Livestock

- Keep the animals inside the shed during hailstorms and provide them with balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.

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

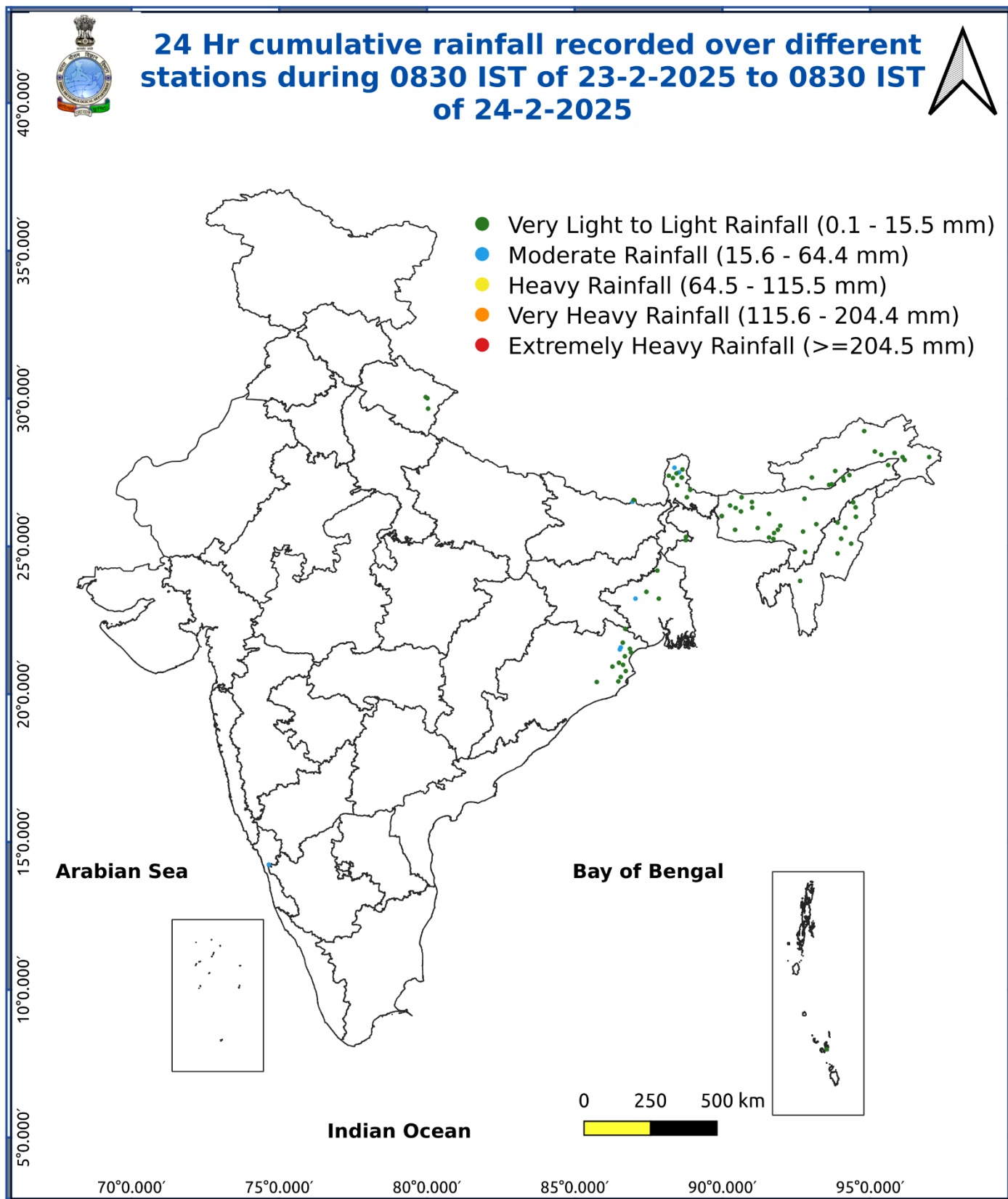
Impact expected:

- 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 kutchha 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.

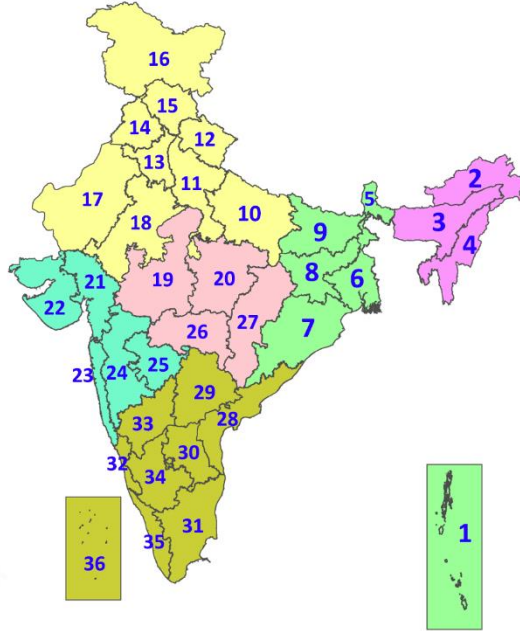
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* 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 *

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

Heat Wave

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 $\geq 37^\circ\text{C}$

Warm Night

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 $> 6.4^\circ\text{C}$.

Cold Wave

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 $\leq 15^\circ\text{C}$

Cold Day

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 $\leq -6.5^\circ\text{C}$

Fog

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

Thunderstorm

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

Dust/Sand Storm

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

Frost

Ice deposits on ground

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

Squall

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

Sea State

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

Cyclone

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 Strom: Wind speed > 220 kmph (> 119 knots)