

Tuesday, March 11, 2025
Time of Issue: 0820 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Temperature:

- ❖ Yesterday, **Maximum Temperatures** were in the range of 40-42°C prevailed over many places in Gujarat State and at isolated places over Rajasthan; 38-40°C over isolated places over Odisha, Vidarbha and Konkan & Goa; 34-36°C over many places over Madhya Pradesh, Madhya Maharashtra, southern Peninsular India; at isolated places over Jharkhand, Gangetic West Bengal and Chhattisgarh. These were above normal by 5-8°C at many places over Gujarat state and isolated places over Rajasthan.

Weather Systems, Forecast and warning:

- ❖ The **Western Disturbance** as a cyclonic circulation over West Iran in middle & upper tropospheric levels.
- ❖ A fresh Western Disturbance is likely to affect northwest India from the night of 12th March, 2025. Under their influence;
 - ✓ **fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 12th - 14th March; **Scattered light/moderate rainfall/snowfall accompanied with thunderstorm & lightning** over Uttarakhand during the same period.
 - ✓ **Isolated heavy rainfall/snowfall very likely over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 13th & 14th; Himachal Pradesh on 14th March.
 - ✓ Isolated light/moderate rainfall **accompanied with thunderstorm & lightning** likely over Punjab, Haryana, Uttar Pradesh, Rajasthan on 13th & 14th march.
- ❖ A **cyclonic circulation** lies over central Assam in lower tropospheric levels. Under its influence,
 - ✓ **Scattered to fairly widespread** light/moderate rainfall/snowfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 11th-14th, with **gusty winds increasing to (speed 40-50 kmph) over Assam & Meghalaya on 12th**; with **thunderstorm & lightning** over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim during 11th-13th March.
 - ✓ **Isolated Heavy rainfall likely over Arunachal Pradesh during 11th-14th; Assam & Meghalaya on 12th & 13th March.**
- ❖ Under the influence of easterly wave activity,
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm & lightning** likely over Tamilnadu, Puducherry & Karaikal on 11th & 12th; Kerala & Mahe, Lakshadweep during 11th-13th; Isolated light/moderate rainfall accompanied with **thunderstorm & lightning** likely over South Interior Karnataka during 11th-13th March.
 - ✓ **Isolated heavy to very heavy rainfall likely over south Tamil Nadu on 11th and heavy rainfall over Tamilnadu Puducherry & Karaikal and Kerala & Mahe on 11th & 12th March.**
 - ✓ Scattered to Fairly widespread light to moderate rainfall likely over Andaman & Nicobar Islands during next 7 days.

Temperature Forecast:

Maximum temperature:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over plains of Northwest India during next 2 days and fall by 2-4°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Central India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over Gujarat State during next 2 days and fall by 2-3°C during subsequent 3 days.
- ❖ Gradual rise in maximum temperatures by 3-4°C likely over East India and by 2-4°C over Maharashtra and Telangana during next 4 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Hot & Humid weather warning:

- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa on 11th and over Coastal Karnataka on 11th & 12th March.

Heat Wave Warning:

- ❖ **Heat Wave to Severe Heat Wave Conditions** very likely at a few places with heat wave conditions at many places over Gujarat state & isolated places over south Rajasthan on 11th & 12th and heat wave at isolated places over Vidarbha during 11th - 13th; Odisha on 13th & 14th March.

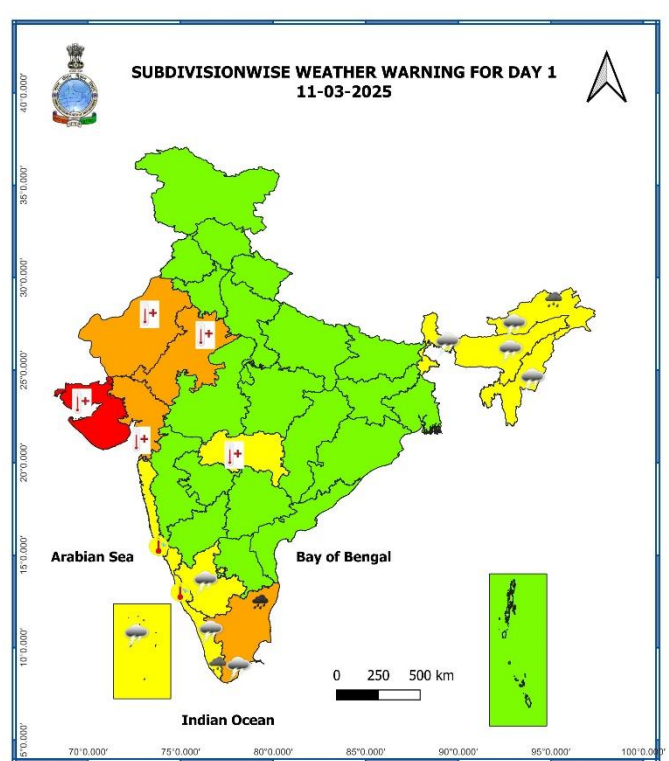
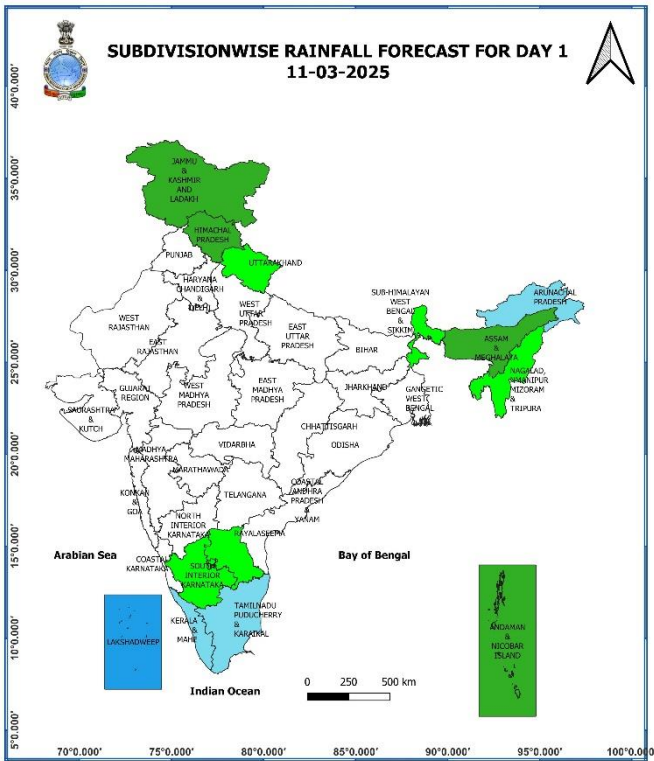
Main Weather Observations:

- ❖ **Rainfall/snowfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad: Kupwara-1.**
- ❖ **Heat Wave at many places with Severe heat wave at a few places** had been recorded over Saurashtra & Kutch.
- ❖ **Minimum Temperature Departures (as on 10-03-2025):** Minimum temperatures were **markedly above normal (5.1°C or more)** at a few places over Jammu-Kashmir; at isolated places over Himachal Pradesh, West Madhya Pradesh and West Uttar Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Bihar, Gujarat state; **above normal (1.6°C to 3.0°C)** at a few places over Gangetic West Bengal, Konkan & Goa and Madhya Maharashtra; at isolated places over Uttar Pradesh, Odisha, Marathwada, Coastal Andhra Pradesh & Yanam, Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal. These were **below normal (-3.0°C to -1.6°C)** at isolated places over Chhattisgarh, Assam & Meghalaya, South Interior Karnataka and near normal over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature of 10.0°C** was reported at **Ayodhya (Uttar Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 10-03-2025):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Rajasthan and Gujarat State; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Haryana, Madhya Pradesh, Vidarbha, Konkan & Goa, Assam & Meghalaya and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at a few places over East Uttar Pradesh, Punjab and Himachal Pradesh; at isolated places over West Uttar Pradesh, Bihar, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. These are **below normal (-3.0°C to -1.6°C)** at isolated places over Telangana, Rayalaseema and near normal over rest parts of the country. (**Fig. 2**). Yesterday, the highest **maximum temperature of 42.0°C** was reported at **Bhuj-Rudramata (Saurashtra & Kutch)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

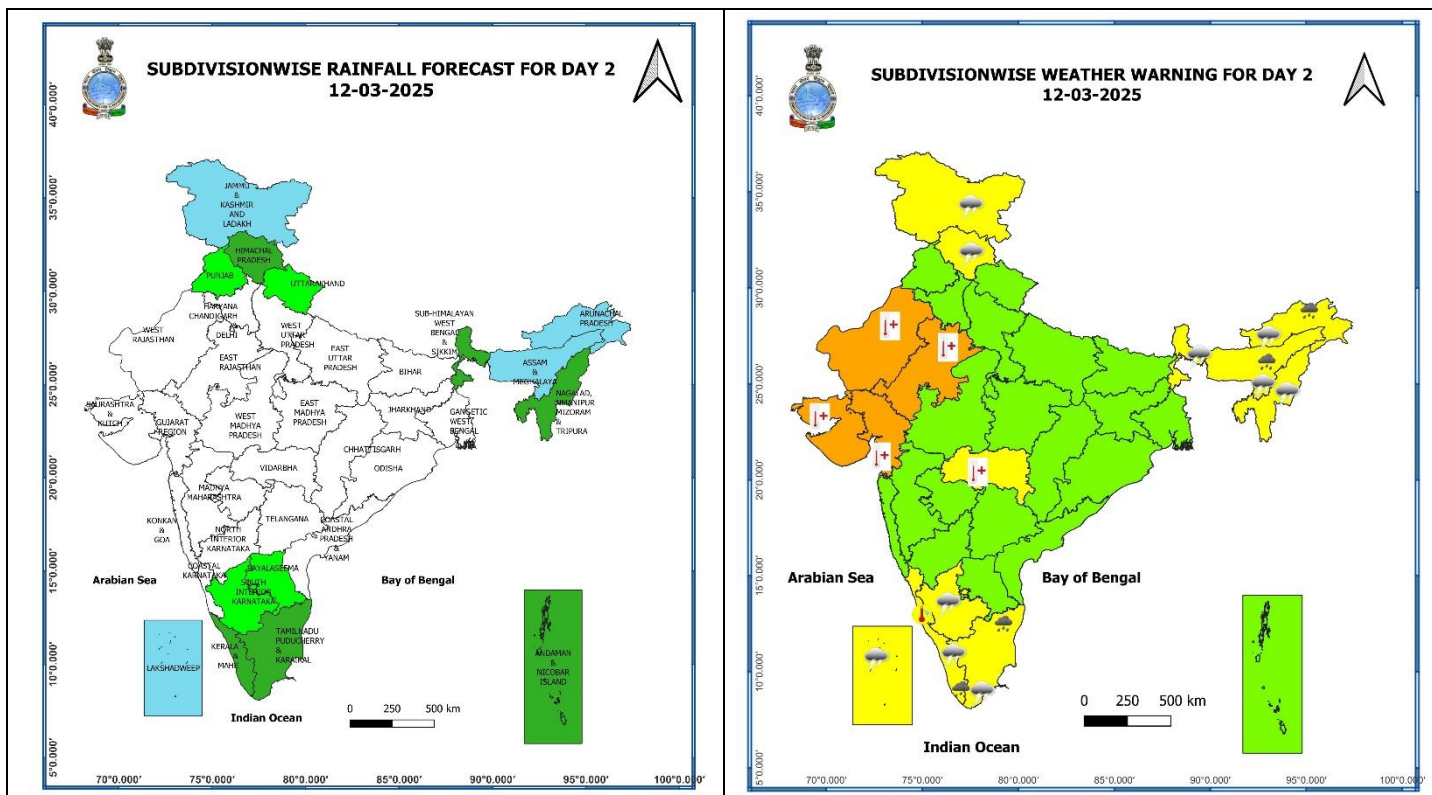
- ❖ The **Western disturbance** as a cyclonic circulation over West Iran & neighbourhood between 5.8 & 9.6 km above mean sea level persists.
- ❖ The **cyclonic circulation** over northwest Rajasthan & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The **trough** in easterlies from southwest Madhya Pradesh to south Haryana at 0.9 km above mean sea level persists.
- ❖ The **upper air cyclonic circulation** over Equatorial Indian Ocean & adjoining southwest Bay of Bengal at 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over central Assam & neighbourhood at 3.1 km above mean sea level persists.
- ❖ A fresh **Western Disturbance** is likely to affect Northwest India from the night of 12th March, 2025.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 18th March, 2025)



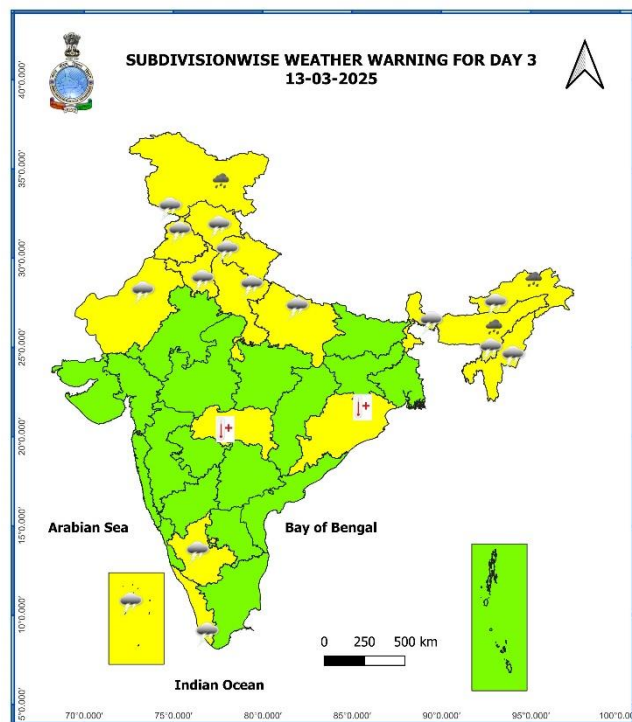
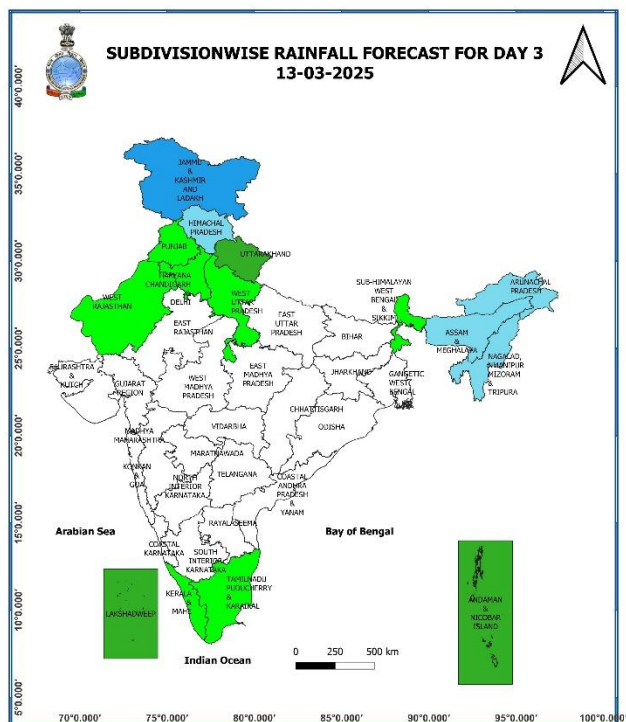
11th March (Day 1):

- ❖ **Heavy to very heavy rainfall (≥12 cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaiikal; **Heavy rainfall (≥7 cm)** at isolated places over Arunachal Pradesh, Kerala & Mahe and Lakshadweep.
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Assam & Meghalaya and Kerala & Mahe; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Tamil Nadu, Puducherry & Karaiikal, Lakshadweep and South Interior Karnataka.
- ❖ **Heat Wave to Severe Heat Wave Conditions very likely** at a few places with heat wave conditions at many places over Gujarat state & isolated places over Rajasthan and heat wave at isolated places over Vidarbha.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa and Coastal Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over along and off south Kerala coast and adjoining Lakshadweep area, Comorin area, gulf of Mannar, along and off south Tamil Nadu coast. Fishermen are advised not to venture into these areas.



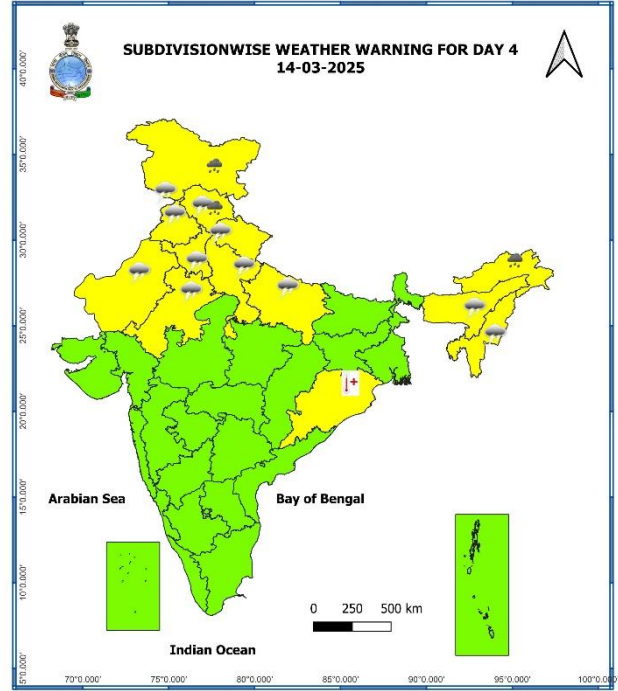
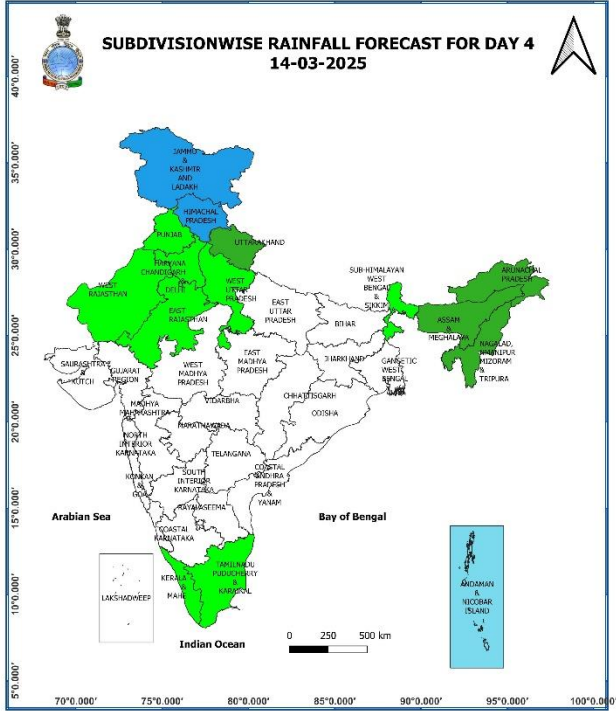
12th March (Day 2):

- ❖ **Heavy rainfall (≥ 7 cm)** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Assam & Meghalaya; **with gusty winds (speed reaching 30-40 kmph)** at isolated places over Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and South Interior Karnataka.
- ❖ **Heat Wave to Severe Heat Wave Conditions very likely** at a few places with heat wave conditions at many places over Gujarat state & isolated places over Rajasthan and heat wave at isolated places over Vidarbha.
- ❖ **Hot and humid weather** very likely to prevail over Coastal Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over along and off south Kerala coast and adjoining Lakshadweep, Maldives; Comorin areas. Fishermen are advised not to venture into these areas.



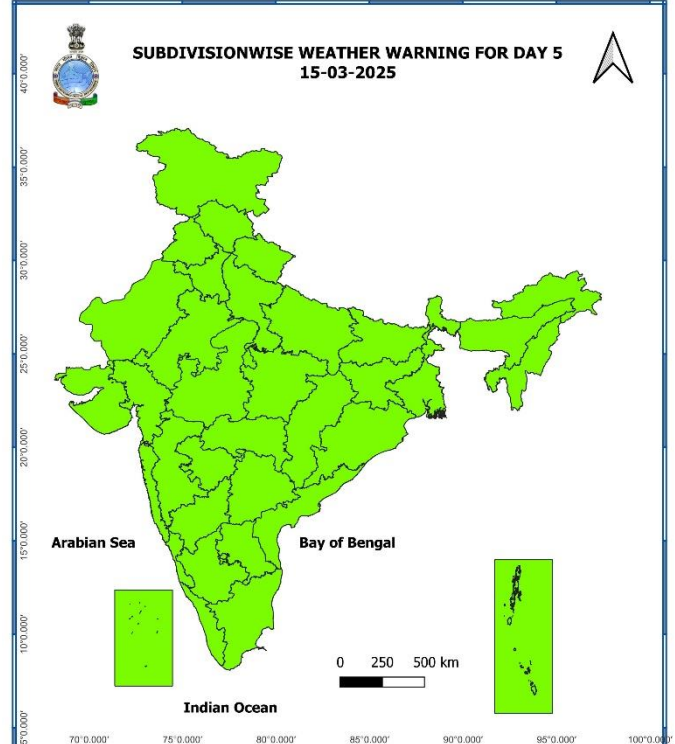
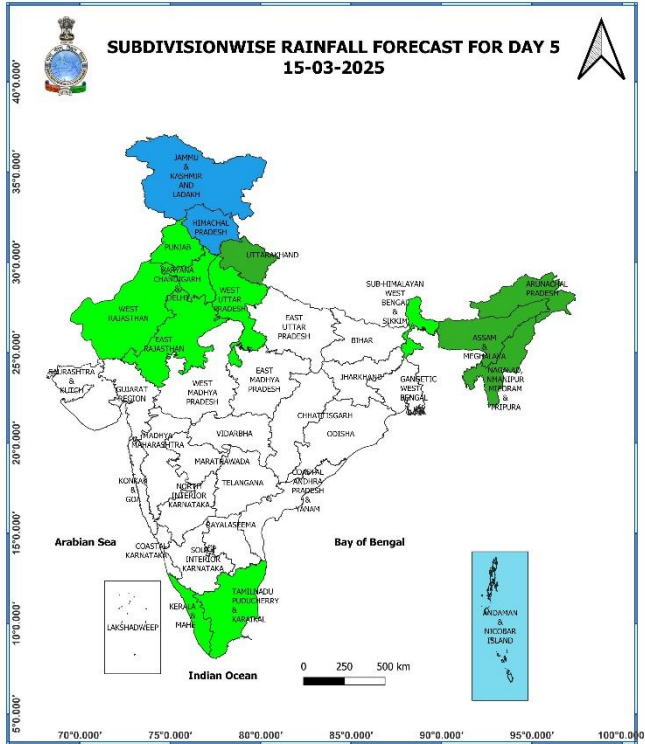
13th March (Day 3):

- ❖ **Heavy rainfall (≥ 7 cm)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Uttar Pradesh, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Kerala & Mahe, Lakshadweep and South Interior Karnataka.
- ❖ **Heat Wave Conditions** likely at isolated places over Vidarbha and Odisha.



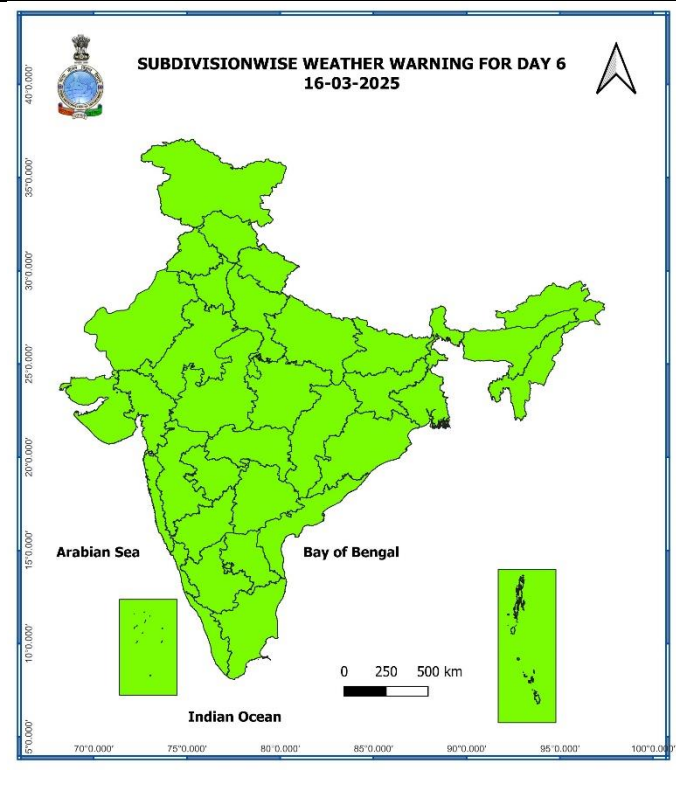
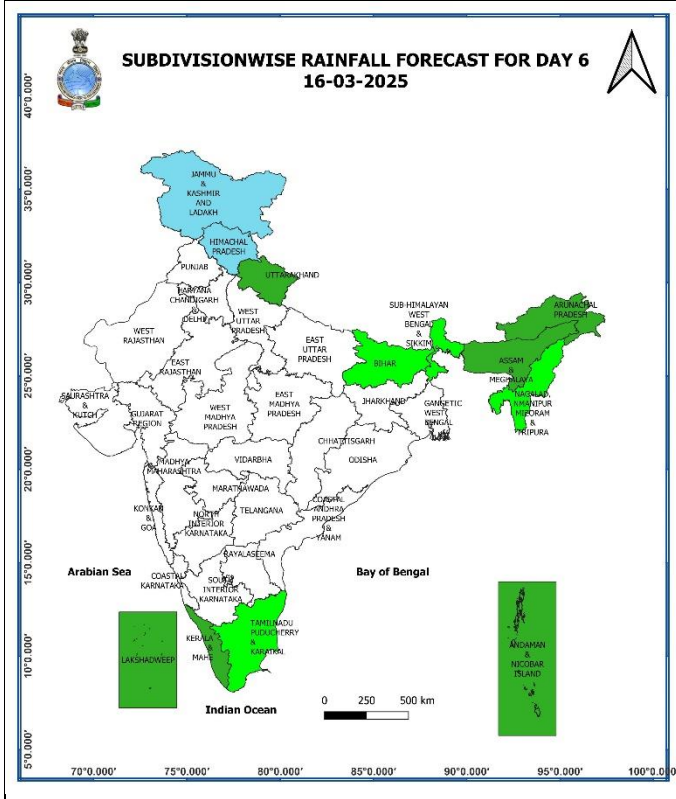
14th March (Day 4):

- ❖ **Heavy rainfall (≥ 7 cm)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Uttar Pradesh and Rajasthan.
- ❖ **Heat Wave Conditions** likely at isolated places over Odisha.



14th March (Day 5):

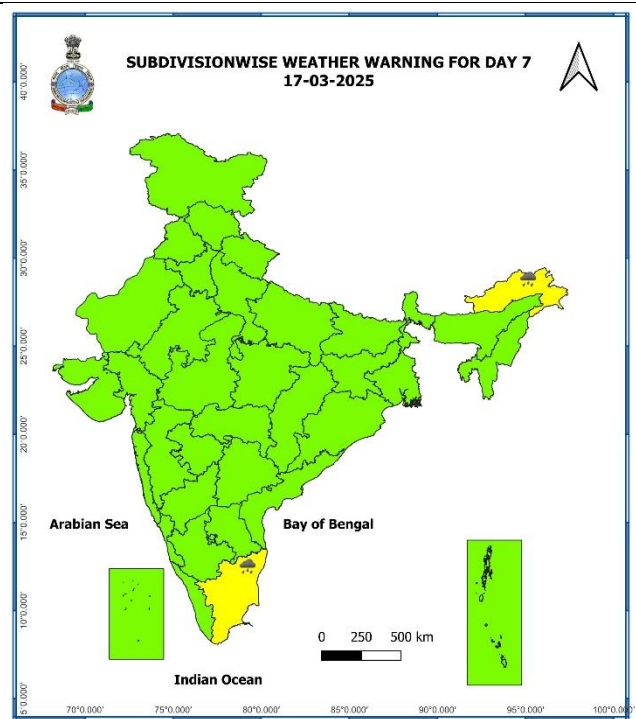
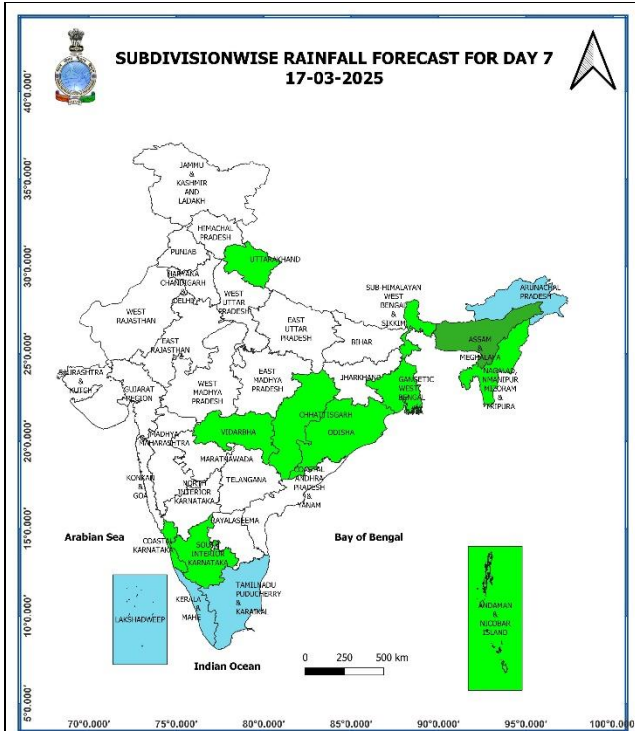
❖ **No Weather Warning.**



16th March (Day 6):

❖ **No Weather Warning.**

* 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.
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17th March (Day 7):

- ❖ Heavy rainfall (≥ 7 cm) at isolated places over east Arunachal Pradesh.

Weather Outlook for subsequent 3 days (During 18th March- 20th March, 2025)

- ❖ Scattered to fairly widespread rainfall/snowfall likely over Western Himalayan region.
- ❖ Isolated to scattered rainfall likely over Northeast, East & adjoining Central India, south Peninsular India.

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

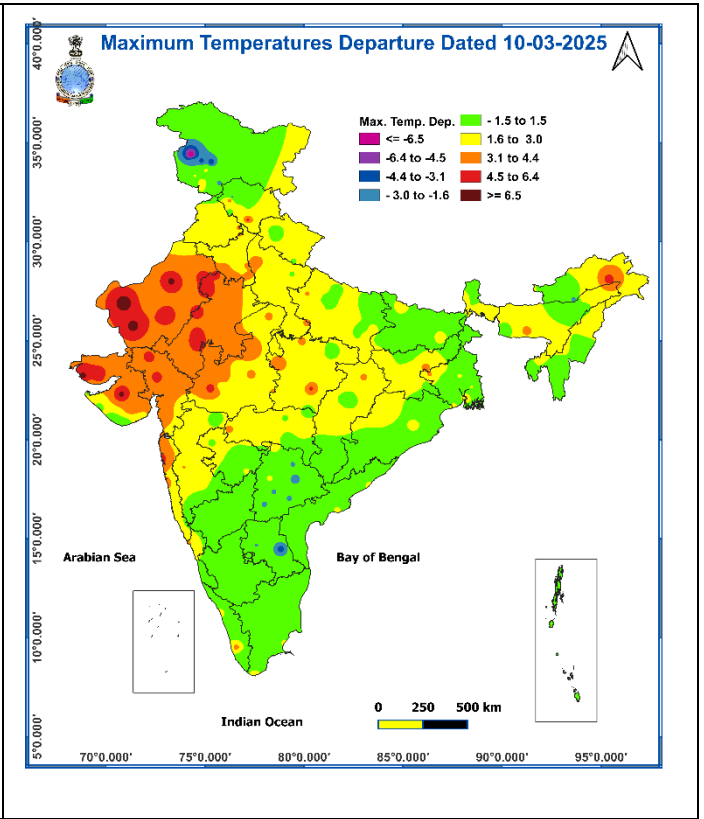
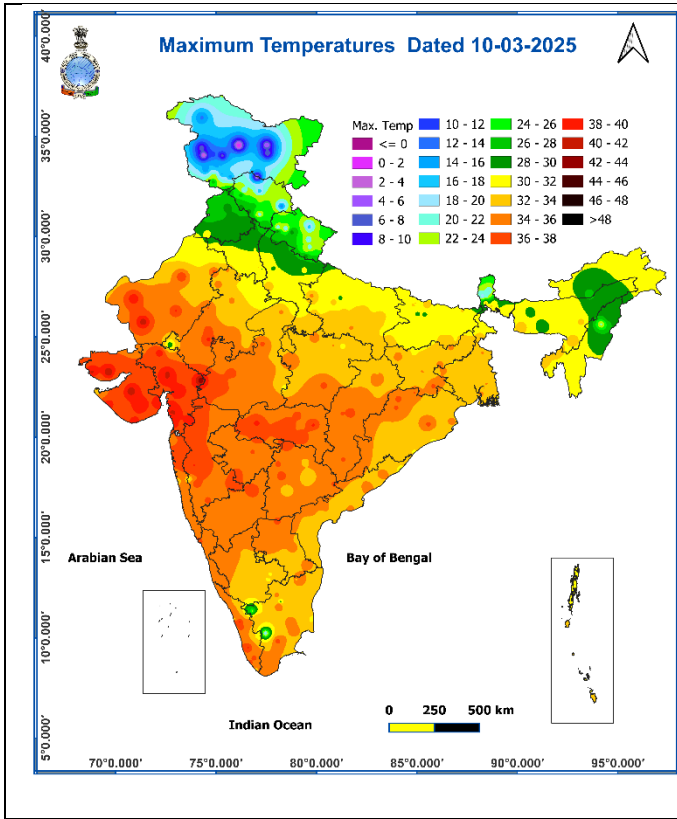
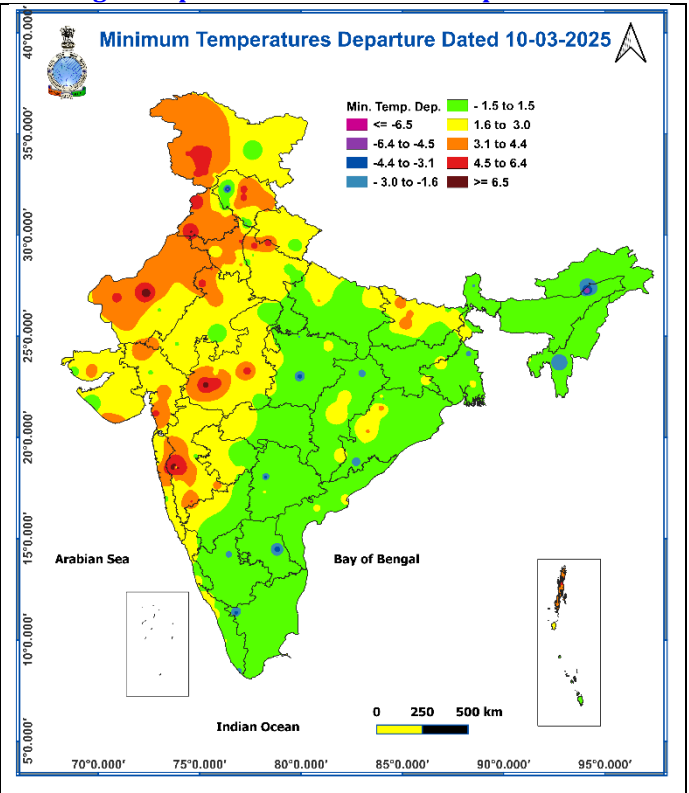
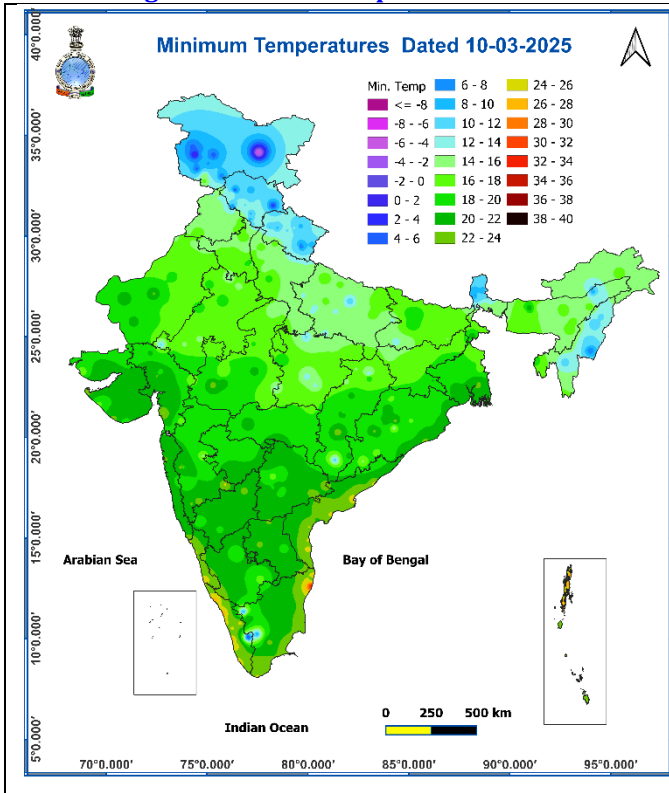


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



Agromet advisories for likely impact of Heavy Rainfall / Heat Wave

- Make provision for draining out excess water from standing crop fields and vegetables in **Arunachal Pradesh, Assam & Meghalaya, Jammu & Kashmir, Tamil Nadu and Kerala.**
- In **Gujarat, Vidarbha and West Rajasthan**, apply light and frequent irrigation to the standing crops, vegetables and orchards in the evening to protect them from heat wave.
- 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 and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of drinking water to animals.

Impact expected and action suggested due Heat Wave conditions over Gujarat State on 11th & 12th; West Rajasthan on 11th & 12th; Vidarbha during 11th -13th and Odisha on 13th & 14th 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.

Impact & Action Suggested due to heavy rainfall/ snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 13th & 14th; Himachal Pradesh on 14th; Arunachal Pradesh during 11th-14th March and very heavy rainfall over south Tamil Nadu on 11th March; heavy rainfall over Assam & Meghalaya on 12th & 13th; Tamil Nadu, Puducherry & Karaikal on 12th and Kerala & Mahe on 11th & 12th March, 2025.

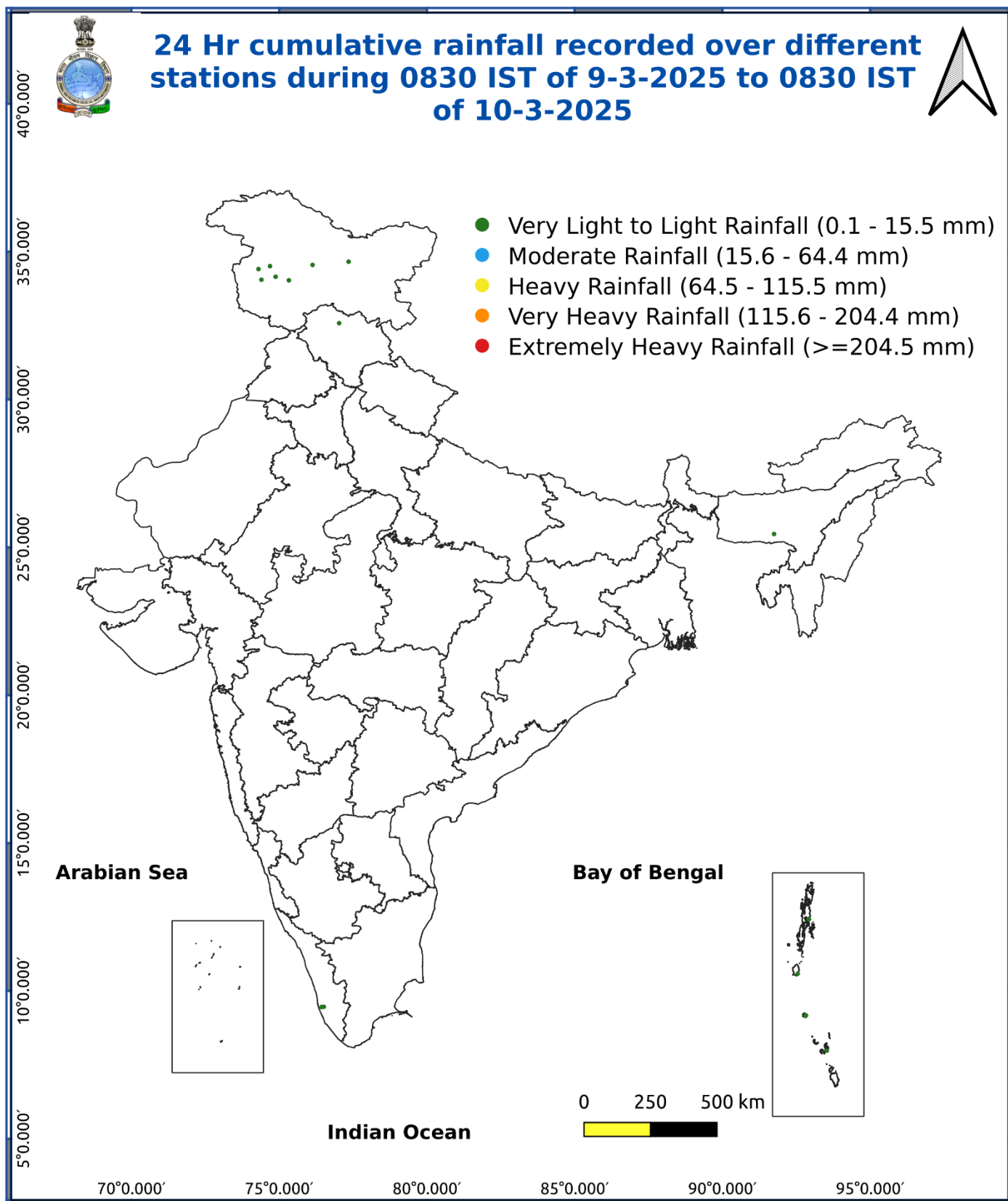
A. Impact Expected

- ❖ 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).

B. 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.

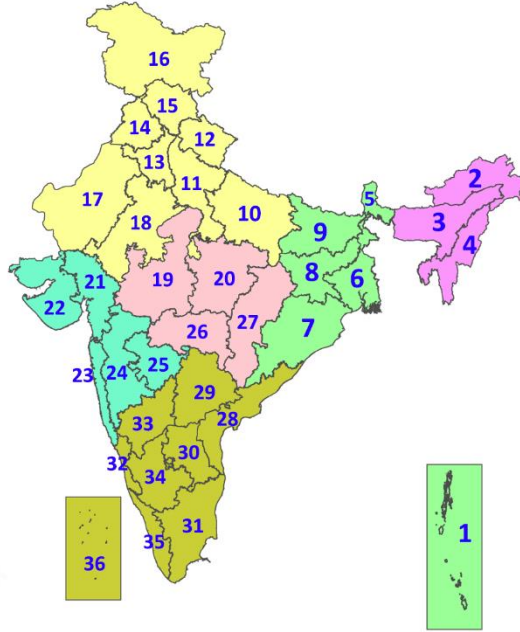
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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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)