



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Wednesday, March 12, 2025 Time of Issue: 1330 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Forecast for Holi: Generally cloudy sky with possibility of isolated light rain over plains of Northwest India on 14th March. Fairly widespread to widespread light to moderate rainfall/snowfall over Jammu-Kashmir-Ladakh & Himachal Pradesh; states of Northeast India; at a few places over Uttarakhand & Sub-Himalayan West Bengal & Sikkim on 14th March and dry weather mainly over remaining parts of the country.

. Weather Systems, Forecast and Warnings

- A Western Disturbance seen as a cyclonic circulation over West Afghanistan in lower tropospheric levels. Another cyclonic circulation lies over southwest Rajasthan & neighbourhood at lower tropospheric levels. Under the influence of these systems;
 - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 12th-16th; Scattered to fairly widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Uttarakhand during 13th-16th March and decrease in intensity thereafter.
 - ✓ **Isolated light/moderate rainfall** likely over Punjab during 12th-16th; Haryana, West Uttar Pradesh and Rajasthan during 13th-16th; East Uttar Pradesh on 15th & 16th March.
 - ✓ Thunderstorm activity likely over Punjab, Haryana & Chandigarh and West Uttar Pradesh during 13th.16th and Rajasthan on 14th & 15th March.
- A Cyclonic Circulation lies over East Bangladesh & neighbourhood in lower tropospheric levels and another Cyclonic Circulation over East Assam & neighbourhood with a trough aloft roughly along Long. 93°E to the north of Lat. 25°N in middle tropospheric levels. Under the influence of these systems;
 - Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Arunachal Pradesh during 12th-15th; Scattered to fairly widespread light/moderate rainfall/snowfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over Sub-Himalayan West Bengal & Sikkim on 12th; Assam & Meghalaya on 12th & 13th; with thunderstorm, lightning & gusty winds (speed 30-40 kmph) over Sub-Himalayan West Bengal & Sikkim on 13th; Assam & Meghalaya during 14th-16th; Nagaland, Manipur, Mizoram & Tripura on 12th, 14th & 15th March; with thunderstorm & lightning over Sub-Himalayan West Bengal & Sikkim on 14th March. Squally winds (speed 50-60 Kmph) likely at isolated places over Tripura on 13th March.
 - Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh during 12th-14th, 16th & 17th March with possibility of very heavy falls on 13th March.
 - ✓ Isolated heavy rainfall over Assam & Meghalaya on 13th March.
- A Cyclonic Circulation lies over West Equatorial Indian Ocean & adjoining Maldives area in lower tropospheric levels and a trough in easterlies runs from this cyclonic circulation to Southwest Bay of Bengal off Tamil Nadu Coast in lower tropospheric levels. Under the influence of these systems;
 - ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds (speed 30-40 kmph)** likely over Kerala & Mahe and South Interior Karnataka on 12th; with **thunderstorm & lightning** over Tamilnadu, Puducherry & Karaikal, Coastal Karnataka and Lakshadweep on 12th March.
 - ✓ Isolated **Heavy rainfall** likely over south Tamil Nadu, south Kerala and Lakshadweep on 12th March.
 - Isolated to scattered light to moderate rainfall likely over Andaman & Nicobar Islands during next 7 days.

Temperature Forecast:

Forecast of temperature:

Maximum temperature:

- solution in the significant change in maximum temperatures likely over plains of Northwest India during next 48 hours and fall by 2-3°C thereafter.
- Gradual fall in maximum temperatures by 2-3°C likely over many parts of West India during next 4-5 days.
- 💠 Gradual rise in maximum temperatures by about 2°C likely over Central India during next 3 days and no significant change thereafter.
- Gradual rise in maximum temperatures by 3-5°C likely over East India during next 5 days.

Heat wave, Warm Night and Hot & Humid weather warning:

- * Heat Wave to severe heat wave conditions very likely to prevail in isolated pockets over Gujarat State on 12th & 13th March; Heat wave conditions in isolated pockets over Konkan on 12th; Southwest Rajasthan on 12th; Vidarbha on 13th & 14th; Odisha during 13th-16th; Jharkhand during 14th-16th and Gangetic West Bengal on 16th March.
- 🍄 Warm night conditions very likely to prevail in isolated pockets over on Saurashtra & Kutch on 12th and Odisha on 15th & 16th March.
- Hot and humid weather very likely to prevail over Coastal Karnataka on 12th March.



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Main Weather Observations:

- * Rainfall/snowfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Arunachal Pradesh; at isolated places over Himachal Pradesh, Uttarakhand & Sub-Himalayan West Bengal & Sikkim; Light/moderate rainfall at most places over Tamilnadu Puducherry & Karaikal; at a few places over Assam & Meghalaya, Lakshadweep; at isolated places over Punjab, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Rayalaseema, South Interior Karnataka and Kerala & Mahe.
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Tamilnadu Puducherry & Karaikal: DSCL Thiyagadurgam (dist Kallakurichi) 16, Kallakurichi (dist Kallakurichi) 15, Kallakurichi ARG (dist Kallakurichi), Gomugi Dam PWD (dist Kallakurichi) 12 each, Ramnadu KVK AWS (dist Ramanathapuram), DSCL Kalayanallur (dist Kallakurichi) 11 each, DSCL Sulangurichi (dist Kallakurichi) 10, DSCL Virugavoor (dist Kallakurichi), Tiruvarur (dist Thiruvarur), Oothu (dist Tirunelveli) 9 each;Lakshadweep: Minicoy (dist Lakshadweep) 2; Rayalaseema: Sullurpeta (dist Tirupati) 2; Kerala & Mahe: Aryankavu (dist Kollam) 1, Myladumpara (dist Idukki) 1, Pampadumpara (dist Idukki) 1.
- **Yesterday, Heat Wave to Severe heat wave** recorded at many places over Gujarat state.
- Thunderstorm with lightning reported at isolated places over Uttarakhand (Mussoorie), Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- **Heavy to very heavy rainfall** has been recorded at isolated places over Tamilnadu Puducherry & Karaikal.
- **Gusty winds** observed at isolated places over Jammu (Chata).
- ❖ Minimum Temperature Departures (as on 12-03-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Punjab; at a few places over Haryana-Chandigarh, West Rajasthan, Gangetic West Bengal, Andaman & Nicobar Islands and Lakshadweep; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Uttar Pradesh, Madhya Pradesh and Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Delhi and Madhya Maharashtra; at a few places over Marathwada, Coastal Karnataka, Kerala & Mahe; at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura. These are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Odisha; below normal (-3.0°C to -1.6°C) at a few places over Telangana and North Interior Karnataka; at isolated places over Vidarbha and Chhattisgarh and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 13.1°C is reported at Nahan (Haryana) over the plains of the country.
- ***** Maximum Temperature Departures (as on 11-03-2025): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Gujarat state; at many places over Delhi, East Rajasthan and Konkan & Goa; at a few places over Punjab, West Rajasthan and West Madhya Pradesh; at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over Uttarakhand, Vidarbha and Chhattisgarh; at isolated places over Uttar Pradesh, Bihar, Odisha and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh, Haryana-Chandigarh, Jharkhand, Coastal Karnataka and Telangana; at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Lakshadweep. These were appreciably below normal (-3.1°C to -5.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; below normal (-3.0°C to -1.6°C) at a few places over Rayalaseema; at isolated places over North Interior Karnataka and near normal over rest parts of the country. (Fig. 2). Yesterday, the highest maximum temperature of 42.4°C was reported at Bhuj-Rudramata (Saurashtra & Kutch) over the country.



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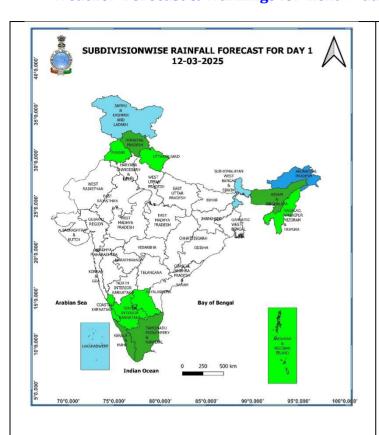
Meteorological Analysis (Based on 0830 hours IST)

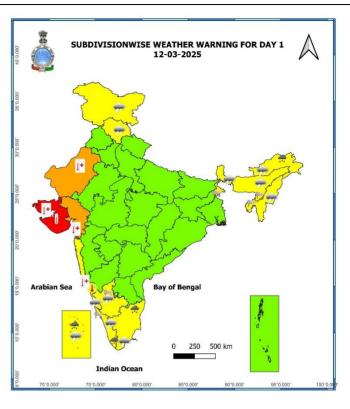
- ❖ The **Western disturbance** as a cyclonic circulation now lies over West Afghanistan & neighbourhood at 3.1 km above mean sea level.
- ❖ The Cyclonic Circulation over southwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ❖ A **Cyclonic Circulation** lies over East Bangladesh & neighbourhood at 0.9 km above mean sea level.
- ❖ The trough roughly along Long. 93°E to the north of Lat. 23°N between 1.5 km & 5.8 km above mean sea level, now seen as a Cyclonic Circulation over East Assam & neighbourhood at 3.1 km above mean sea level with a trough aloft roughly along Long. 93°E to the north of Lat. 25°N at 5.8 km above mean sea level.
- ❖ A **Cyclonic Circulation** lies over West Equatorial Indian Ocean & adjoining Maldives area at 0.9 km above mean sea level.
- ❖ The **trough** in easterlies now runs from **Cyclonic Circulation** over West Equatorial Indian Ocean & adjoining Maldives area to Southwest Bay of Bengal off Tamil Nadu Coast at 0.9 km above mean sea level.
- ❖ A **Cyclonic Circulation** lies over Comorin area at 5.8 km above mean sea level.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 19th March, 2025)



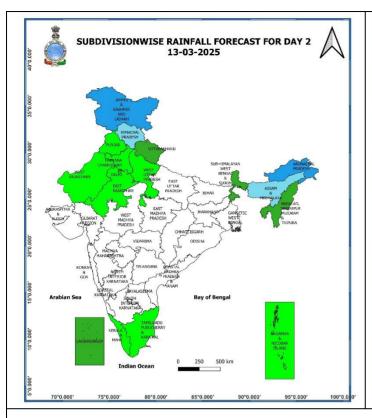


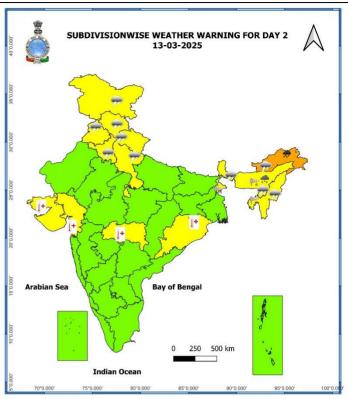
12th March (Day 1):

- **♦ Heavy rainfall (≥7 cm)** very likely at isolated places over Arunachal Pradesh, south Tamil Nadu, Lakshadweep and south Kerala.
- Thunderstorm accompanied with gusty winds (speed reaching 40-50 kmph) & lightning very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; with gusty winds (speed reaching 30-40 kmph) & lightning at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and South Interior Karnataka; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and Lakshadweep.
- **Heat Wave to severe Heat wave Conditions** very likely at isolated places over Gujarat state; **Heat wave Conditions** at isolated places over West Rajasthan and Konkan & Goa.
- Hot and humid weather very likely to prevail over Coastal Karnataka.
- **Warm Night Conditions** very likely at isolated places over Saurashtra & Kutch.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph 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.







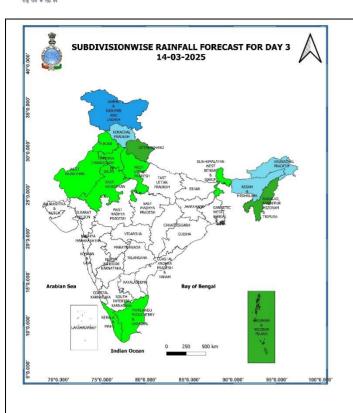


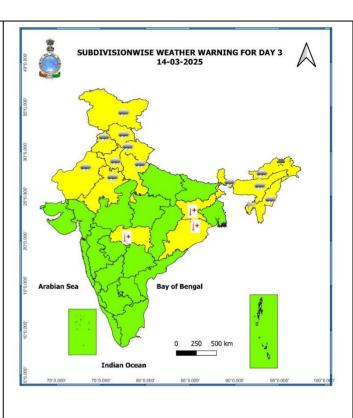
13th March (Day 2):

- ♣ Heavy to very heavy rainfall (≥12 cm) very likely at isolated places over Arunachal Pradesh; Heavy rainfall (≥7 cm) at isolated places over Assam & Meghalaya.
- Thunderstorm accompanied with gusty winds (speed reaching 50-60 kmph) & lightning very likely at isolated places over Tripura; with gusty winds (speed reaching 40-50 kmph) & lightning at isolated places over Assam & Meghalaya; with gusty winds (speed reaching 30-40 kmph) & lightning at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and Arunachal Pradesh.
- Heat Wave Conditions very likely at isolated places over Vidarbha, Odisha and Gujarat state.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over Lakshadweep, Maldives areas and adjoining southeast Arabian sea. Fishermen are advised not to venture into these areas.



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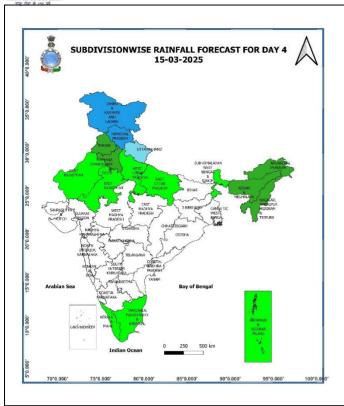


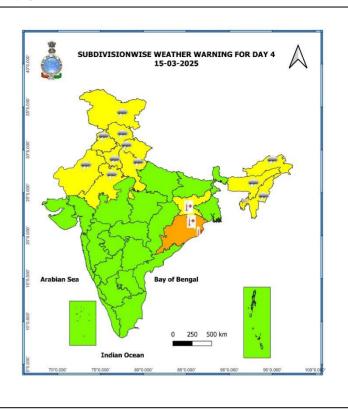


14th March (Day 3):

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

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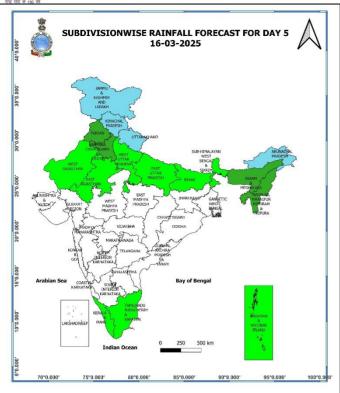


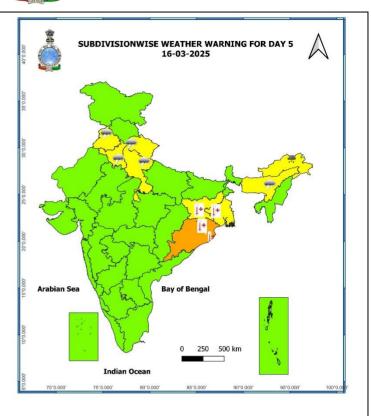


15th March (Day 4):

- Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning at isolated places over Arunachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and Rajasthan.
- **\Delta Heat Wave Conditions** likely at isolated places over Jharkhand and Odisha.
- **Warm Night Conditions** likely at isolated places over Odisha.

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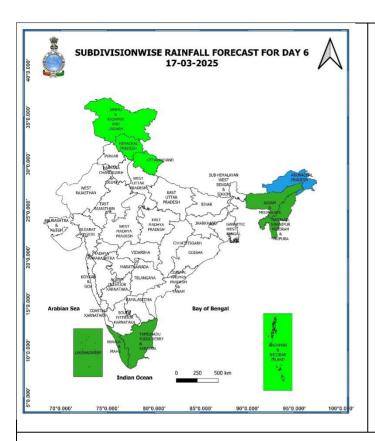


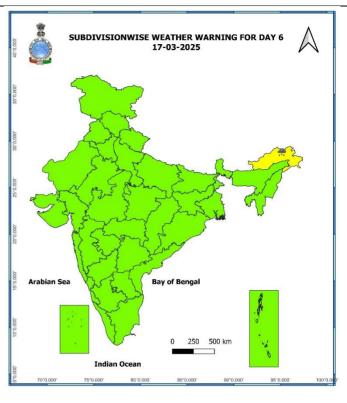
16th March (Day 5):

- **♦ Heavy rainfall (≥7 cm)** likely at isolated places over Arunachal Pradesh.
- Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning very likely at isolated places over Assam & Meghalaya; with lightning at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh.
- **Heat Wave Conditions** likely at isolated places over Gangetic West Bengal, Jharkhand and Odisha.
- **Warm Night Conditions** likely at isolated places over Odisha.



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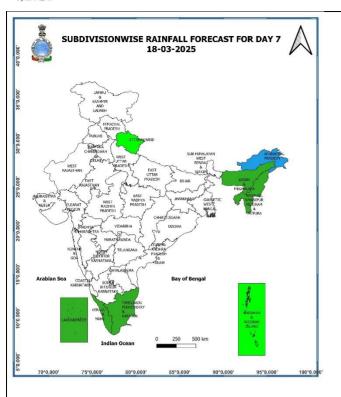


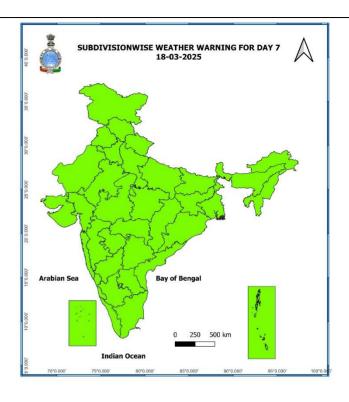
17th March (Day 6):

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



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18th March (Day 7):

❖ No Weather Warning.

Weather Outlook for subsequent 3 days (During 19th March- 21th 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.

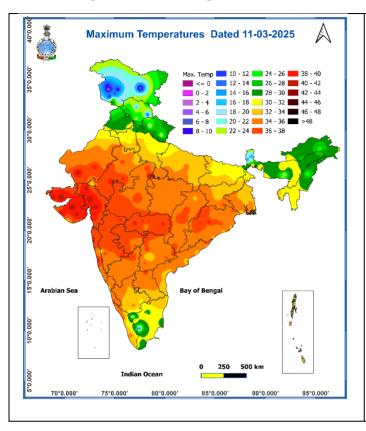
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

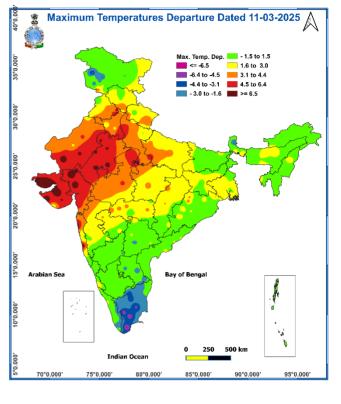
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures





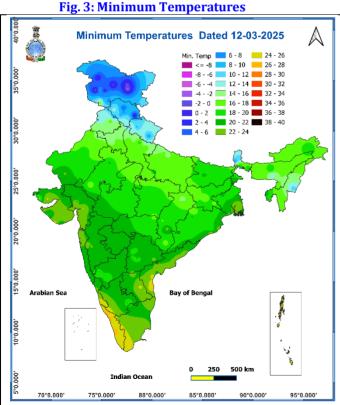
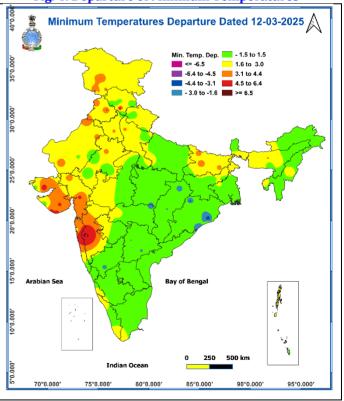


Fig. 4: Departure of Minimum Temperatures





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Agromet advisories for likely impact of Heavy Rainfall / Heat Wave

- Make provision for draining out excess water from standing crops and vegetables fields in **Arunachal Pradesh**, **Assam**, **South Tamil Nadu**, **South Kerala** and **Lakshadweep**.
- ➤ In **Gujarat, Konkan, Vidarbha**, **South West Rajasthan, Odisha** and **Jharkhand**, 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 to thunderstorm accompanied with lightning/gusty winds over Tamil Nadu Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, South Interior Karnataka on 12th; Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura during 12th -15th; Assam & Meghalaya during 12th-16th; Sub-Himalayan West Bengal & Sikkim during 12th-14th; Punjab, Haryana & Chandigarh and West Uttar Pradesh during 13th-16th and Rajasthan on 14th & 15th March.

Impact expected:

- ❖ Strong wind may damage plantation, horticulture and standing crops.
- ❖ 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

Red alert Areas (Gujarat State)

- ❖ Very high likelihood of developing heat illness and heat stroke in all ages.
- Extreme care needed for vulnerable people.

Orange alert Areas (southwest Rajasthan)

- 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 (Vidarbha, Odisha, Jharkhand, Gangetic West Bengal and Konkan)

- ❖ 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.





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- 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 Arunachal Pradesh on 13th; heavy rainfall/snowfall over south Tamil Nadu, south Kerala and Lakshadweep on 12th March; Arunachal Pradesh during 12th-14th, 16th & 17th March with possibility of very heavy falls on 13th March.

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).

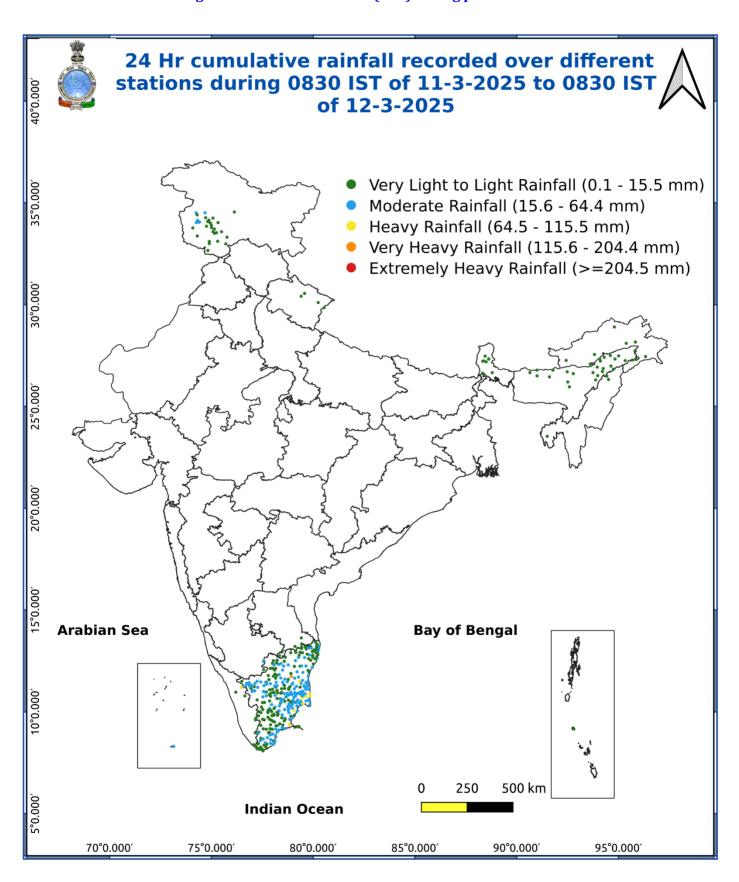
B. Action Suggested

- ❖ 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







LEGENDS

16

15

- 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



- 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 महाराष्ट
- 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. आतंरिक उत्तरी कर्नाटक
- 34. आतंरिक दक्षिणी कर्नाटक
- 35. केरल और माहे
- 36. लक्षद्वीप

Hailstorm

Sust Raising Winds

- 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. Rihar
- 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

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- 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)
· · · · · · · · · · · · · · · · · · ·			



Hot & Humid

Strong Surface Winds

Probability of Occurrence (%)		
< 25		
25 - 50		
50 - 75		
> 75		





	DEFINITION/CRITERIA
	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*
	Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal
Heat Wave	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum
	temperature ≥37°C
	When maximum temperature remains 40°C
Varm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure
Cold Wave	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Dhannan of and the plate are and disciplined the basic and the basic and the basic and the second of
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
hunderstorm	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 ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute
	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph
Squall	Moderate: Wind speed 52-61 kmph
Squall	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph
	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
Squall Sea State	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
	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
	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)
Sea State	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)
	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)