



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Saturday, March 15, 2025 Time of Issue: 2000 hours IST (NIGHT)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

. Weather Systems, Forecast and Warnings:

- A Western Disturbance seen as a cyclonic circulation over north Pakistan and adjoining Jammu region in lower & middle tropospheric levels. A cyclonic circulation lies over northeast Rajasthan and a trough runs from southwest Uttar Pradesh to southwest Rajasthan in lower tropospheric levels. Under the influence of these systems;
 - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Western Himalayan region on 15th & 16th March, 2025 and decrease in intensity thereafter.
 - ✓ Isolated **heavy rainfall/snowfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 15th and over Uttarakhand on 16th March.
 - ✓ **Hailstorm activity** very likely at isolated places over Uttarakhand, Haryana, Chandigarh and West Uttar Pradesh on 15th March.
 - ✓ Isolated to scattered light/moderate rainfall accompanied with thunderstorm & lightning, Gusty wind (speed 30-40 kmph) likely over Punjab, Haryana Chandigarh, Uttar Pradesh, Rajasthan on 15th & 16th March.
- A **Cyclonic Circulation** lies over northeast Assam and neighbourhood in lower tropospheric levels. Under its influence;
 - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm, lightning & gusty winds (speed 30-40 kmph) likely over Arunachal Pradesh and Scattered to fairly widespread light/moderate rainfall/snowfall accompanied with thunderstorm, lightning & gusty winds (speed 30-50 kmph) likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 15th-19th March.
 - ✓ Isolated **heavy rainfall/snowfall** very likely over Arunachal Pradesh during 15th-19th March **with very heavy** rainfall on 17th March and over Assam & Meghalaya on 17th March.
 - ✓ Isolated hailstorms also likely over Arunachal Pradesh, Nagaland, Manipur, south & central Assam on 15th March.

Temperature Forecast:

Forecast of temperature:

Maximum temperature:

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

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

- * Heat wave to Severe heatwave conditions likely at isolated places over Odisha on 15th & 16th.
- **♦ Heat wave conditions** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, north Telangana on 15th & 16th; Gangetic West Bengal during 15th-17th; Odisha on 17th & 18th; North Interior Karnataka on 18th & 19th March.
- * Warm night conditions very likely to prevail in isolated pockets over Odisha during 15th to 18th March.
- ♦ Hot & humid conditions very likely to prevail in isolated pockets over Kerala & Mahe, Coastal Andhra Pradesh & Yanam on 15th & 16th; Saurashtra & Kutch during 15th-19th March.





Main Weather Observations:

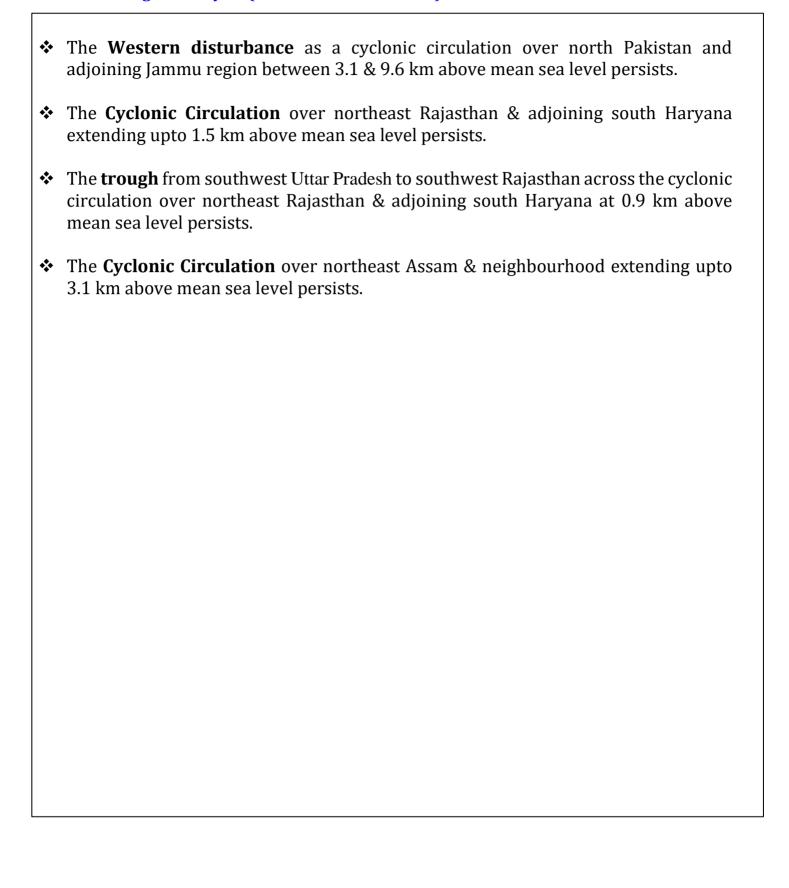
- * Rainfall/snowfall distribution (from 0830 hours IST to 1730 hours IST of today): Rainfall/Snowfall at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; at many places over Uttarakhand and Rainfall at a few places over Punjab.
- ❖ Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of today): (in cm): **Iammu-Kashmir:** Pahalgam & Banihal 2 each.
- **\Lambda Heat wave to Severe heat wave conditions** prevailed at many places over interior Odisha and **Heat wave conditions** at many places over Vidarbha.
- ❖ Minimum Temperature Departures (as on 15-03-2025): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Bihar; appreciably above normal (3.1°C to 5.0°C) at a few places over Gangetic West Bengal and Uttar Pradesh; at isolated places over Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at most places over Rajasthan and Gujarat state; at many places over Assam & Meghalaya, Andaman & Nicobar Islands, Haryana-Chandigarh-Delhi, Chhattisgarh and Jharkhand; at a few places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Punjab and Kerala & Mahe; at isolated places over Telangana, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Arunachal Pradesh, Himachal Pradesh, Uttarakhand and Madhya Maharashtra. These are below normal (-3.0°C to -1.6°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 14.1°C is reported at Amritsar (Punjab) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 15-03-2025): Maximum temperatures are markedly above normal (5.1°C or more) at most places over East Uttar Pradesh and Jharkhand; at a few places over East Madhya Pradesh, Chhattisgarh and Odisha; at isolated places over West Madhya Pradesh and Gangetic West Bengal; appreciably above normal (3.1°C to 5.0°C) at most places over Vidarbha; at a few places over Bihar; at isolated places over East Rajasthan, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada; above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka; at many places over Gujarat Region, South Interior Karnataka, Telangana, Rayalaseema; at a few places over Haryana-Chandigarh-Delhi; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. These are markedly below normal (-5.1°C or less) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Punjab and near normal over rest parts of the country. (Fig. 2). Today, the highest maximum temperature of 42.5°C is reported at Boudh (Odisha) over the country.





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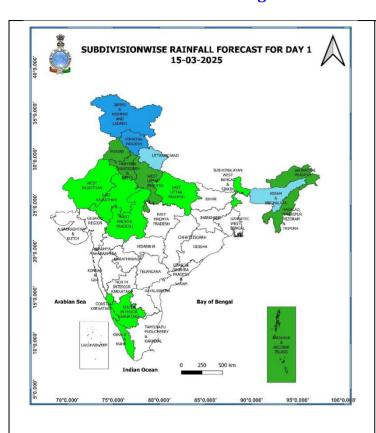
Meteorological Analysis (Based on 1730 hours IST)

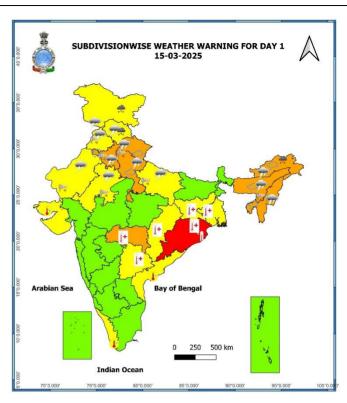






Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 22nd March, 2025)



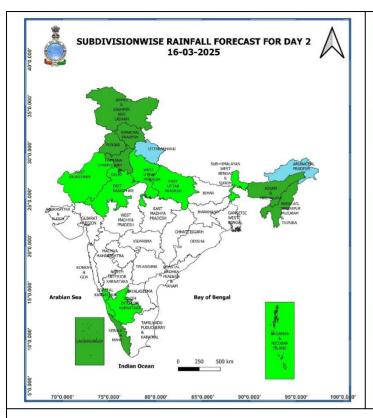


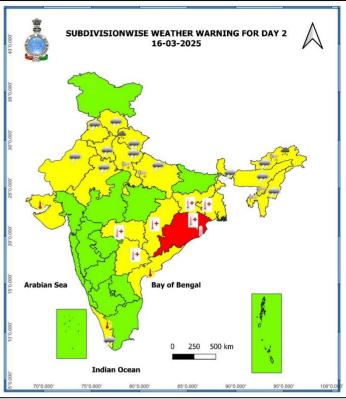
15th March (Day 1):

- ❖ Heavy rainfall (≥7 cm) very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Arunachal Pradesh.
- Thunderstorm accompanied with hailstorm, gusty winds (speed reaching 30-40 kmph) & lightning very likely at isolated places over Arunachal Pradesh, central Assam, Nagaland & Manipur, Uttarakhand, West Uttar Pradesh, Haryana; Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning very likely at isolated places over Punjab, East Uttar Pradesh, Rajasthan, and Nagaland, Manipur, Mizoram & Tripura; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand.
- ❖ Heat Wave to severe heat wave Conditions very likely at isolated places over Odisha; Heat Wave Conditions likely at a few places over Vidarbha; at isolated places over Gangetic West Bengal, Jharkhand, Chhattisgarh, Telangana.
- **❖ Warm Night Conditions** likely at isolated places over Odisha.
- Hot and Humid Conditions likely at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.



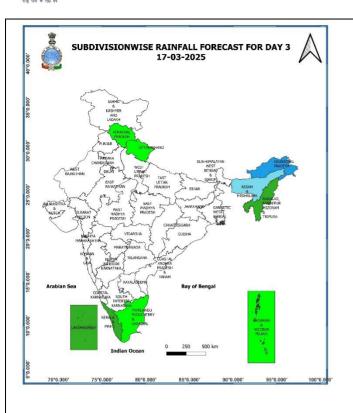


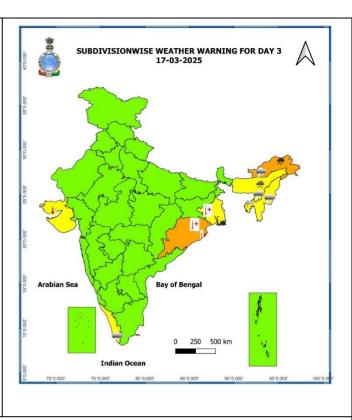




16th March (Day 2):

- **♦ Heavy rainfall (≥7 cm)** likely at isolated places over Uttarakhand and Arunachal Pradesh.
- Thunderstorm accompanied with gusty winds (speed reaching 40-50 kmph) & lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning at isolated places over Arunachal Pradesh, Uttar Pradesh; with lightning at isolated places over Kerala & Mahe, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Sub-Himalayan West Bengal & Sikkim.
- Heat Wave to severe heat wave Conditions very likely at isolated places over Odisha; Heat Wave Conditions at isolated places over Gangetic West Bengal, Jharkhand, Vidarbha, Chhattisgarh, Telangana.
- **Warm Night Conditions** very likely at isolated places over Odisha.
- Hot and Humid Conditions very likely at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

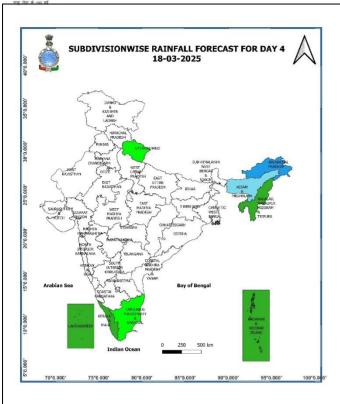


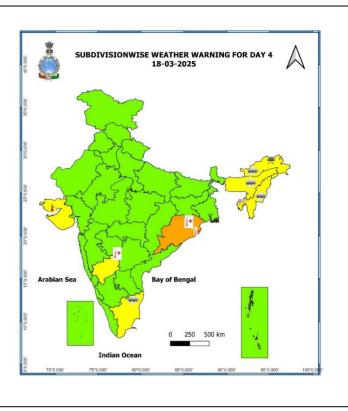


17th March (Day 3):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) very likely at isolated places over Arunachal Pradesh and Heavy rainfall (≥7 cm) at isolated places over Assam & Meghalaya.
- **❖ Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning** very likely at isolated places over Nagaland, Manipur; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya and north Kerala & Mahe.
- ❖ **Heat Wave Conditions** very likely at isolated places over Odisha and Gangetic West Bengal.
- **❖ Warm Night Conditions** likely at isolated places over Odisha.
- ❖ Hot and Humid Conditions likely at isolated places over Saurashtra & Kutch

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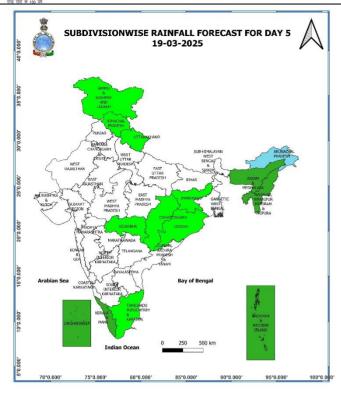


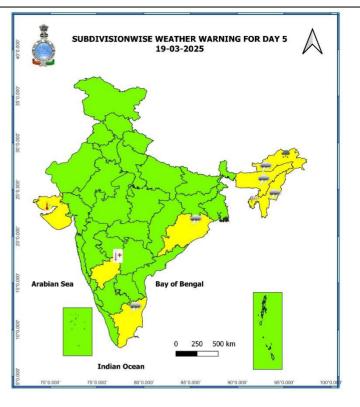
18th March (Day 4):

- **❖ Heavy rainfall (≥7 cm)** likely at isolated places over Arunachal Pradesh.
- ❖ Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya Tamil Nadu, Puducherry & Karaikal.
- **Heat Wave Conditions** likely at isolated places over North Interior Karnataka.
- ❖ Hot and Humid Conditions likely at isolated places over Saurashtra & Kutch.
- ❖ Warm Night Conditions likely at isolated places over Odisha



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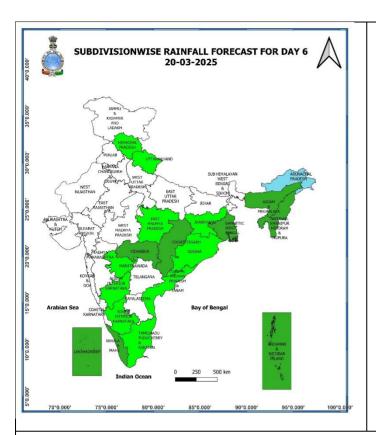


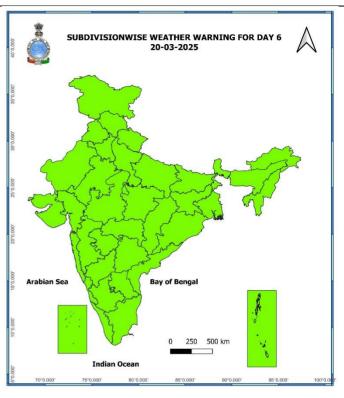
19th March (Day 5):

- **♦ Heavy rainfall (≥7 cm)** likely at isolated places over Arunachal Pradesh.
- Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya Tamil Nadu, Puducherry & Karaikal and Odisha.
- **\(\text{Heat Wave Conditions} \)** likely at isolated places over North Interior Karnataka.
- ❖ Hot and Humid Conditions likely at isolated places over Saurashtra & Kutch.



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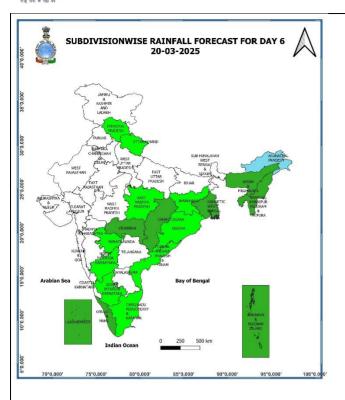


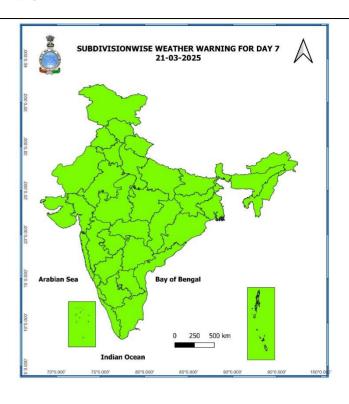
20th March (Day 6):

❖ No Weather Warning.



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21th March (Day 7):

* No Weather Warning.

Weather Outlook for subsequent 3 days (During 22nd March- 24th March, 2025)

❖ Isolated to scattered rainfall likely over Western Himalayan region, Northeast, East & adjoining Central India, south Peninsular India.

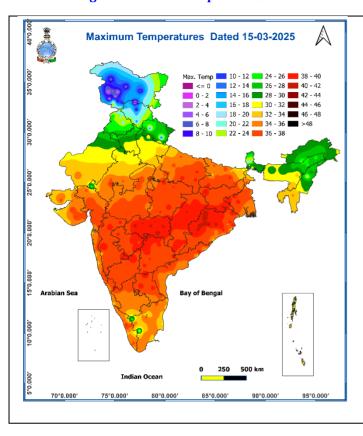
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

- 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



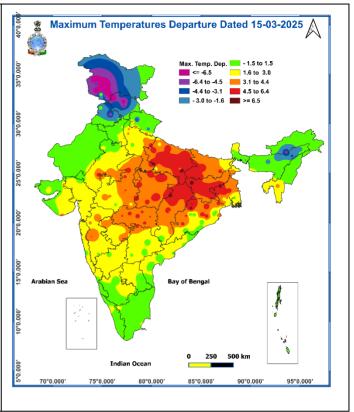


Fig. 3: Minimum Temperatures

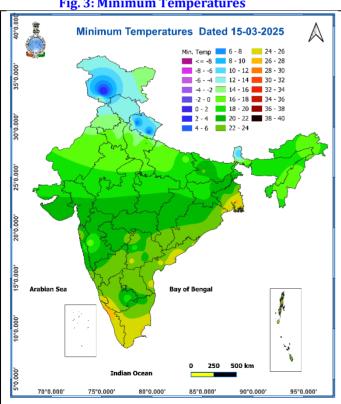
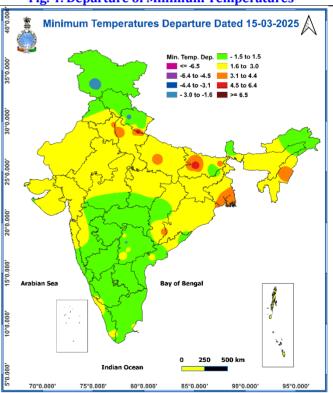


Fig. 4: Departure of Minimum Temperatures







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Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds over Northeast India and Northwest India during next 5 days

- **❖** 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 & Action Suggested due to heavy rainfall/ snowfall over;

- (i) Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 15th and over Uttarakhand on 16th March.
- (ii) Arunachal Pradesh during 15th-19th March with very heavy rainfall on 17th March and over Assam & Meghalaya on 17th 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.



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Impact expected and action suggested due to Heat wave to severe heat wave conditions likely at isolated places over Odisha on 15th & 16th; Heat wave to severe heat wave conditions likely at isolated places over Vidarbha, Chhattisgarh, Jharkhand, north Telangana on 15th & 16th; Gangetic West Bengal during 15th-17th; Odisha on 17th & 18th; North Interior Karnataka on 18th & 19th March.

Orange alert Areas (Saurashtra & Kutch 15th; Odisha during 15-17th March)

- ❖ High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- ❖ High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ❖ Avoid heat exposure keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Yellow alert Areas

- ❖ Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- ❖ Wear lightweight, light colour, loose, cotton clothes.
- . Cover your head, use a cloth, hat or umbrella.

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

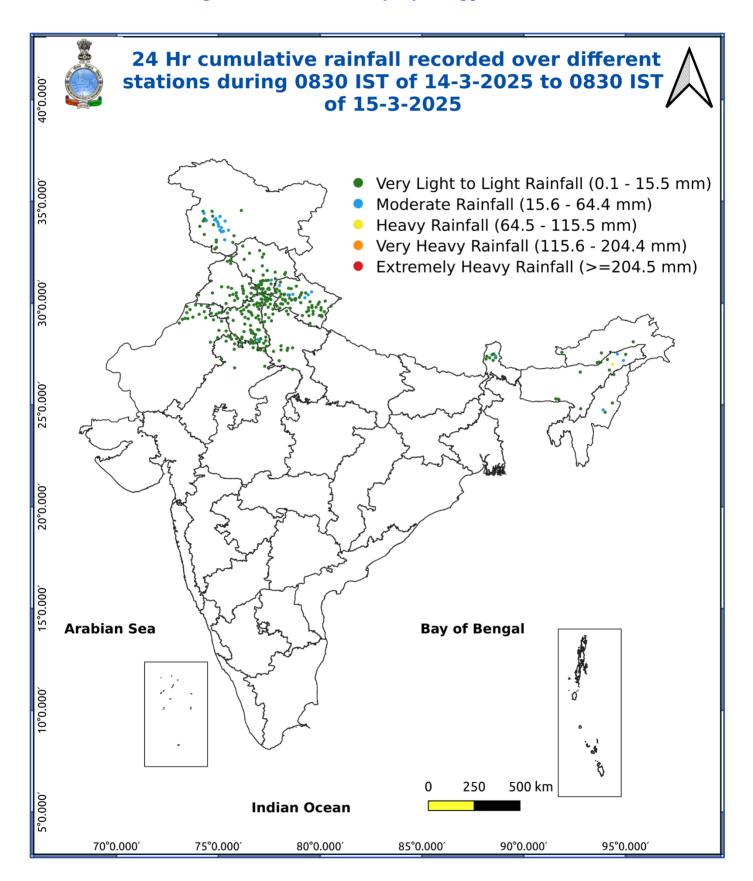
- ➤ In Arunachal Pradesh, Nagaland, Manipur, Uttarakhand, Haryana and West Uttar Pradesh, use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- ➤ In Arunachal Pradesh, Jammu & Kashmir, Himachal Pradesh and Uttarakhand, make provision to drain out excess water from standing crop and vegetable fields. Postpone land preparation and sowing of *Jhum* rice and maize in Arunachal Pradesh.
- ➤ In Odisha, Jharkhand, Gangetic West Bengal, Saurashtra & Kutch, Vidarbha, Chhattisgarh and North Telangana, apply light and frequent irrigation to the standing crops, vegetables and orchards in the evening to protect them from adverse impacts of 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.
- ➤ In the regions of heavy snowfall, shake the fruit-bearing trees to remove snow immediately from the branches.

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.
- 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.



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



28. तटीय आंध्र प्रदेश और यनम

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

Thunder & Lightning

Hailstorm

Sust Raising Winds

31. तमिलनाडु, पुडुचेरी और कराईकल

29. तेलंगाना

30. रायलसीमा

32. तटीय कर्नाटक

35. केरल और माहे

36. लक्षद्वीप





LEGENDS



- 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)



+ Hot Day

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

Hot & Humid

Strong Surface Winds





	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: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
Cold Wave	(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
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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)