



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Saturday, March 15, 2025 Time of Issue: 1340 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

. Weather Systems, Forecast and Warnings (Annexure III & IV):

- 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.

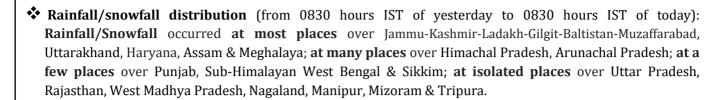
Heat wave, Warm Night and Hot & Humid weather warning:

- **Heat wave to Severe heatwave conditions** likely at isolated places over Odisha on 15th & 16th; Saurashtra & Kutch on 15th March.
- ♣ Heat wave conditions at isolated places over Vidarbha, Chhattisgarh, Jharkhand, north Telangana on 15th & 16th; Gangetic West Bengal during 15th-17th; Saurashtra & Kutch on 16th & 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.



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Main Weather Observations:



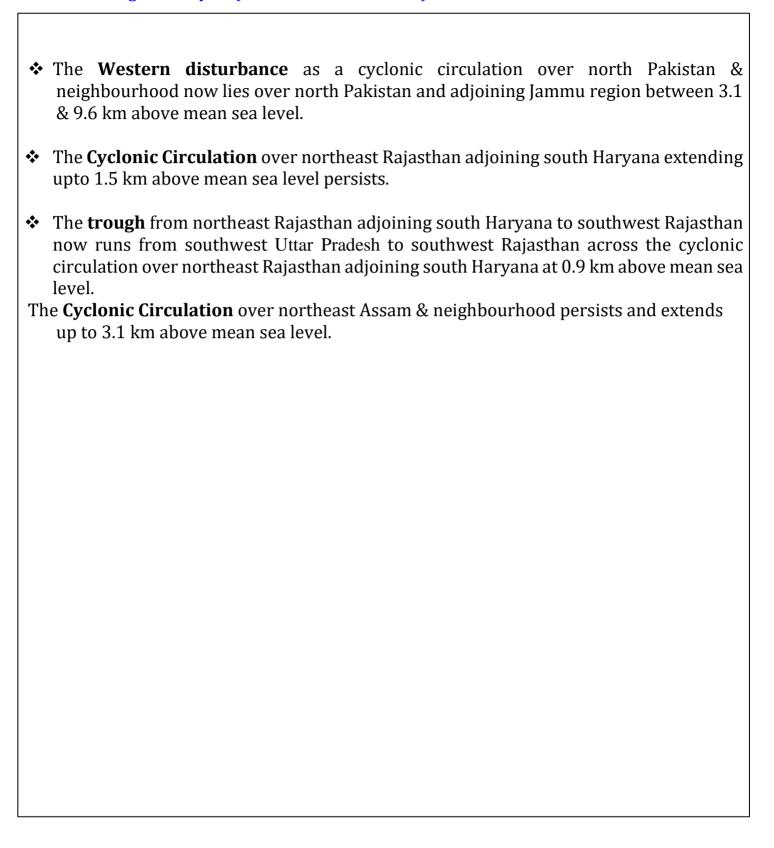
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): (in cm): Assam & Meghalaya: Majuli (dist Jorhat) 7, Sonari_arg (dist Sibsagar) 6, Algapur Circle AWS (dist Hailakandi) 6; Uttarakhand: Almora-6, Chaukhutia, Dwarhat 3each; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad: Qazi Gund (dist Kulgam) 5, Banihal (dist Ramban) 4, Gund (dist Ganderbal) 4, Anantnag Aws (dist Anantnag) 4, Khudwani Arg (dist Anantnag) 4; Arunachal Pradesh: Longding_new(aws) (dist Longding) 4, Pakke_kesang (aws) (dist Pakke Kessang) 3, Miao(aws) (dist Changlang) 3; West Uttar Pradesh: Behat (dist Saharanpur) 2, Budhana (dist Muzaffarnagar) 1, Rampur Maniharan (dist Saharanpur) 1.
- Hailstorms reported at isolated locations over Himachal Pradesh, Haryana, Manipur, Nagaland, Arunachal Pradesh, Assam.
- Heavy rainfall reported at isolated places over Assam & Meghalaya.
- Thunderstorm with lightning reported at isolated places over Northwest India, Sub-Himalayan West Bengal & Sikkim and Northeast India.
- Heat wave to Severe heat wave conditions prevailed at a isolated pockets places over Odisha, Saurashtra & Kutch and Heat wave conditions at isolated 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 14-03-2025): Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Jharkhand, Odisha, Odisha, Chhattisgarh, Vidarbha, Gangetic West Bengal; appreciably above normal (3.1°C to 5.0°C) at most places over West Madhya Pradesh, Gujarat Region; at many places East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Marathwada; at a few places over Madhya Maharashtra; at isolated places Himachal Pradesh, Uttarakhand, Punjab, West Rajasthan, Bihar, Konkan & Goa, Telangana and North Interior Karnataka; above normal (1.6°C to 3.0°C) at many places over Coastal & South Interior Karnataka, Rayalaseema and Coastal Andhra Pradesh & Yanam . These were markedly below normal (5.1°C or less) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; below normal (-3.0°C to -1.6°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. (Fig. 2). Yesterday, the highest maximum temperature of 41.8°C was reported at Jharsuguda (Odisha) over the country.





National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

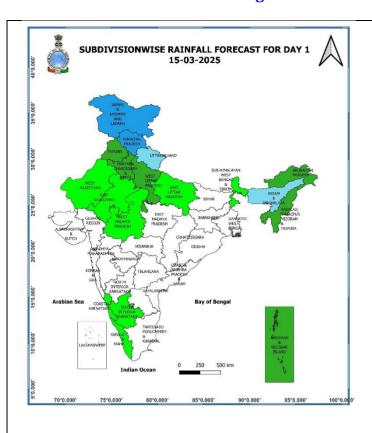
Meteorological Analysis (Based on 0830 hours IST)

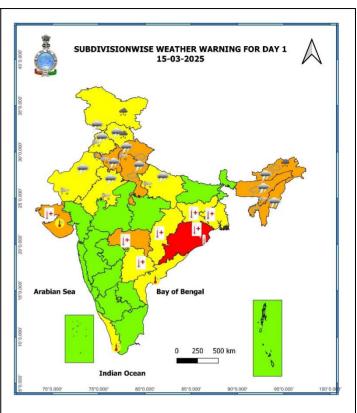






Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 22nd March, 2025)



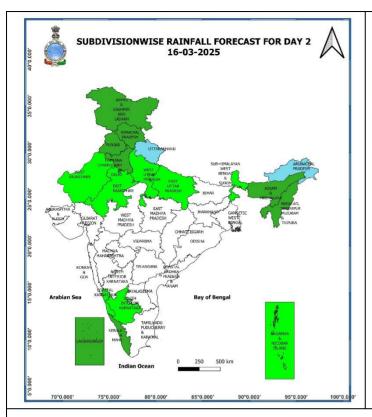


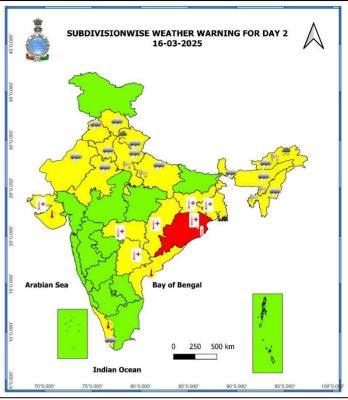
15th March (Day 1):

- ❖ 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 Saurashtra & Kutch, 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 Coastal Andhra Pradesh & Yanam and Kerala & Mahe.







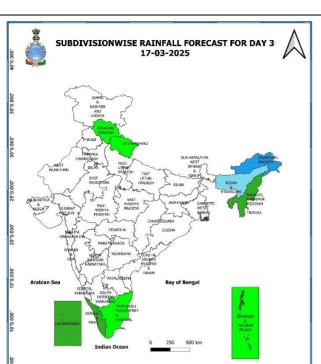


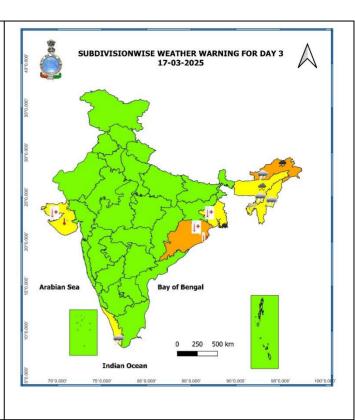
16th March (Day 2):

- **♦ 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 and Saurashtra & Kutch.
- **Warm Night Conditions** very likely at isolated places over Odisha.

Hot and Humid Conditions very likely at isolated places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe.





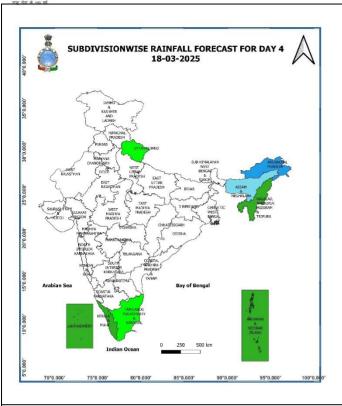


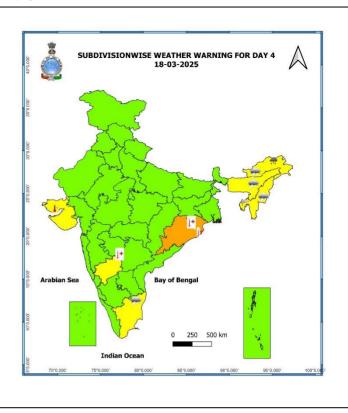
17th March (Day 3):

- **❖ 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.
- **\Delta Heat Wave Conditions** very likely at isolated places over Odisha, Saurashtra & Kutch and Gangetic West Bengal.
- **Warm Night Conditions** likely at isolated places over Odisha.



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



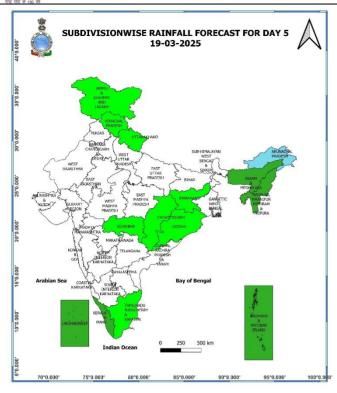


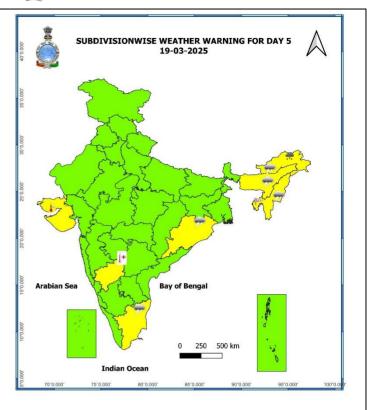
18th March (Day 4):

- **♦ 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



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



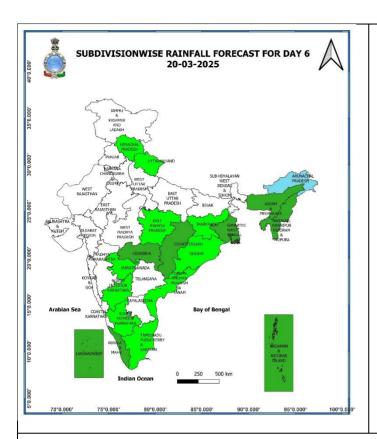


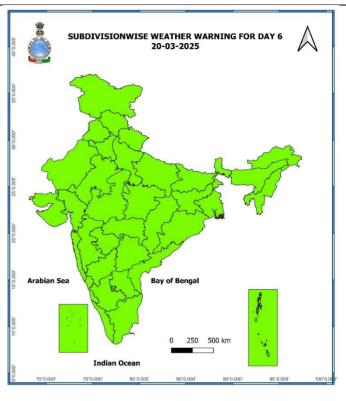
19th March (Day 5):

- ❖ 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.
- **Heat Wave Conditions** likely at isolated places over North Interior Karnataka.
- **\Delta** Hot and Humid Conditions likely at isolated places over Saurashtra & Kutch.



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



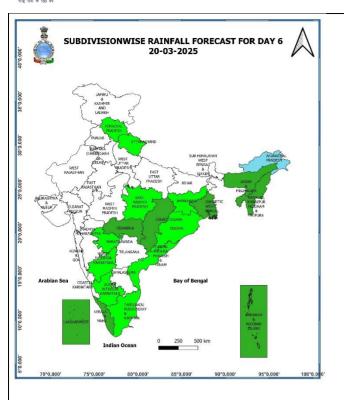


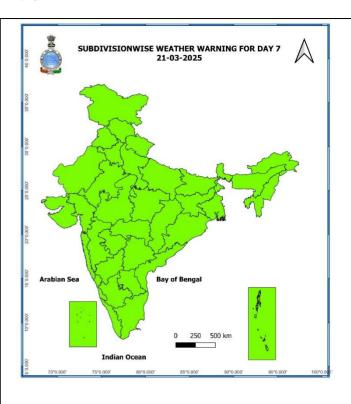
20th March (Day 6):

❖ No Weather Warning.



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences





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.

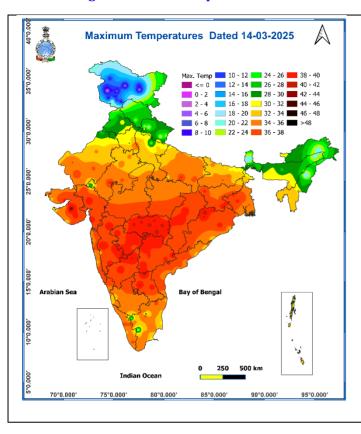
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

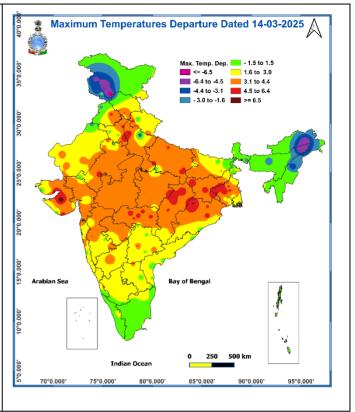
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures





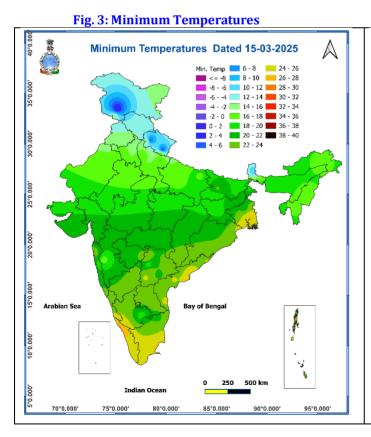
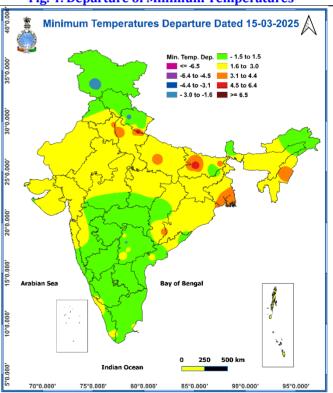


Fig. 4: Departure of Minimum Temperatures







National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

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.



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Impact expected and action suggested due to Heat wave to severe heat wave conditions likely at isolated places over Odisha on 15th & 16th; Saurashtra & Kutch on 15th March.; 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; Saurashtra & Kutch on 16th & 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.

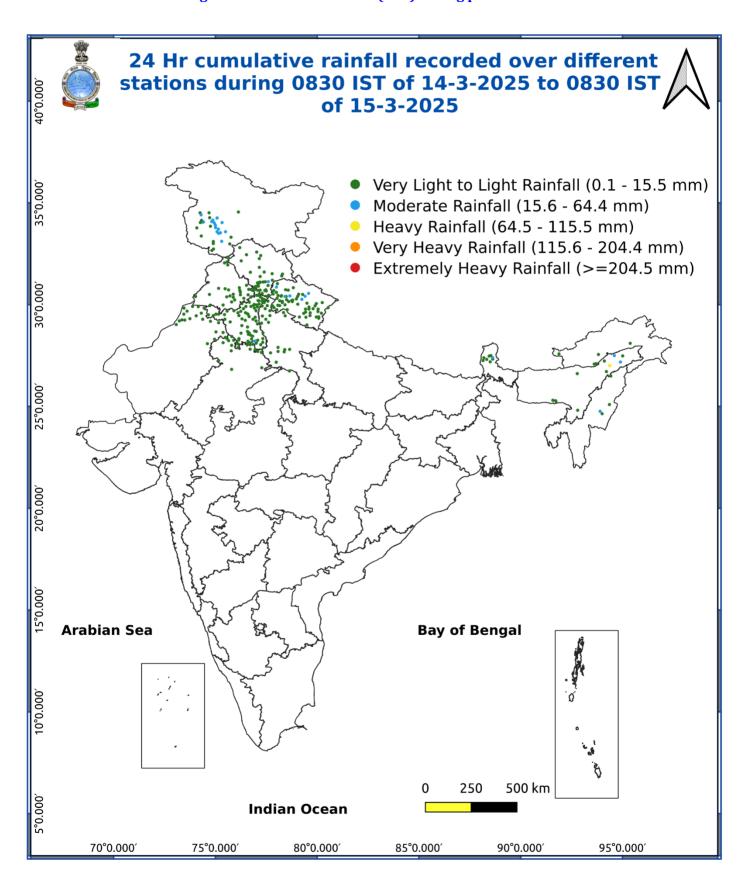
Livestock and Fishery

- > 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







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. छत्तीसगढ
- 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

- 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

1

- 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)



Probabilistic Forecast + Hot Day

Thunder & Lightning	T+ HOLDAY	Terms	Probability of Occurrence (%)
		Unlikely	< 25
Hailstorm	Hot & Humid Likely 25-		25 - 50
		Very Likely	50 - 75
Dust Raising Winds	Camera Comfort Minds	Most Likely	> 75
Dust Kalsing Willas	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: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
Heat Wave	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
neat wave	(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
Warm 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 $\leq 10^{\circ}\text{C}$ 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.
Cold Wave	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
Cold Day	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
	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.
	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
Squall	Moderate: Wind speed 52-61 kmph
Squaii	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
Sea State	High to very high: Wind speed 41-62 kmph (22-33 knots) & Wave height 6-14 metre
	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	Cualania Starra: Wind annual C2 97 Ironh /24 47 Ironh
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)