



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Sunday, April 14, 2025 Time of Issue: 1400 hours IST

(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- An **upper** air **cyclonic circulation** lies over northeast Madhya Pradesh, 2nd over Bangladesh and 3rd over Gulf of Mannar in lower tropospheric levels.
- ❖ A **trough** runs from West Rajasthan to Gulf of Mannar; 2nd trough from West Madhya Pradesh to Bangladesh in lower tropospheric levels.
- Under the influence of these systems:
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds (speed reaching 40-50 kmph)** likely over Northeast & East India during next 5 days.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm**, **lightning & gusty winds (speed reaching 40-50 kmph)** likely over the plains of Central India and Maharashtra on 14th & 15th April.
 - ✓ Heavy rainfall likely over Odisha on 15th & 16th; Assam & Meghalaya during 16th-18th; Nagaland, Manipur, Mizoram & Tripura on 17th April.
 - ✓ **Isolated Hailstorm** likely over Jharkhand on 15th April.
 - ✓ **Thundersquall (wind speed reaching 50-60 kmph)** very likely at isolated places over Gangetic West Bengal, Bihar, Jharkhand on 14th & 15th April.
 - ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 30-40 kmph) likely over Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka during next 5 days. Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over Kerala & Mahe during next 3 days.
- ❖ An intense Western Disturbance likely to affect Western Himalayan Region from 16th to 20th with peak intensity with isolated heavy falls on 18th & 19th April. **Isolated Hailstorm** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th; Himachal Pradesh, Uttarakhand on 18th & 19th. Rainfall along with thunderstorm & lightning and gusty winds is likely over adjoining plains of northwest India during 18th to 20th April, 2025.:

Temperature Forecast:

- ❖ Gradual Rise in maximum temperatures by 3-5°C likely over Northwest India during next 5-6 days till 18th April and gradual fall by 2-4°C during subsequent 2 days.
- No significant change in maximum temperatures likely over Central India during next 24 hours and gradual rise by 2-4°C during 15th-18th and gradual fall by 2-4°C during subsequent 2 days.
- Rise in maximum temperatures by 2-3°C likely over interior Maharashtra during next 5 days and no significant change thereafter during subsequent 2 days.
- Gradual Rise in maximum temperatures by 2-3°C likely over Gujarat State during next 4 days till 17th April and gradual fall by 2-3°C during subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat wave, warm night and Hot & Humid weather warning:

- Heat wave conditions to severe heat wave condition very likely at isolated/some places over West Rajasthan during 14th-19th with severe heat wave conditions at isolated/some parts during 16th-18th April.
- ♦ Heat wave conditions are very likely at isolated places over East Rajasthan during 15th-19th; Gujarat State during 15th-17th; Punjab, Haryana, West Madhya Pradesh during 16th-18th;
- ♦ Hot & humid weather is likely to prevail over Kerala & Mahe on 14th & 15th; Gujarat State during 15th-17th April.
- ❖ Warm Night conditions are likely at isolated places over West Rajasthan during 16th-18th; East Rajasthan on 17th & 18th April.



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Main Weather Observations:

- * Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim; at a few places over Lakshadweep, Coastal Andhra Pradesh & Yanam; at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Telangana, Karnataka.
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Coastal Andhra Pradesh & Yanam: Kaikalur (dist Eluru) 6, Narsipatnam (dist Anakapalli) 4, Tiruvuru (dist Ntr District) 4, Nuzvid (dist Eluru) 4; Andaman & Nicobar Islands: Long Island (dist North & Sikkim: Gyalsing (pto) (dist Gyalshing) 2, Shipgyar (dist Mangan) 2.
- Thunderstorm accompanied with Squally/Gusty winds prevailed at isolated locations over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Tami Nadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ Hailstorm occurred at isolated places over West Madhya Pradesh, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam and Chhattisgarh.
- ❖ Heavy rainfall recorded at isolated places over Odisha and Tamil Nadu.
- **Duststorm** recorded at isolated places over East Uttar Pradesh.
- ❖ Minimum Temperature Departures (as on 14-04-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Uttar Pradesh, West Rajasthan, Gujarat state; above normal (1.6°C to 3.0°C) at isolated places over Himachal Pradesh, Delhi, West Madhya Pradesh, Assam, Telangana, Tamil Nadu, Puducherry & Karaikal. These are appreciably below normal (-5.0°C to -3.1°C) at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-3.0°C to -1.6°C) at a few places over East Uttar Pradesh; at isolated places over East Madhya Pradesh, Chhattisgarh, Jharkhand and normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 17.5°C is reported at Nowgong (East Madhya Pradesh) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 13-04-2025): Maximum Temperatures were markedly above normal (5.1°C or more) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch; at a few places over Lakshadweep; at isolated places over Gujarat state, Vidarbha, Konkan & Goa, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. These were markedly below normal (-5.1°C or less) at a few places over Bihar; appreciably below normal (-3.1°C to -5.0°C) at many places over Jharkhand; at a few places over East Madhya Pradesh; at isolated places over Gangetic West Bengal, Odisha and Andaman & Nicobar Islands; below normal (-3.0°C to -1.6°C) at a few places over Uttarakhand; at isolated places over Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka, Kerala & Mahe and normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 44.0°C was reported at Barmer (West Rajasthan) over the country.



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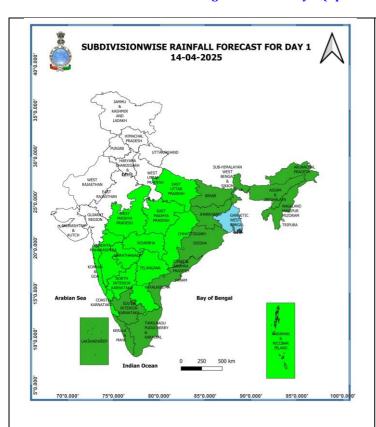
Meteorological Analysis (Based on 0830 hours IST)

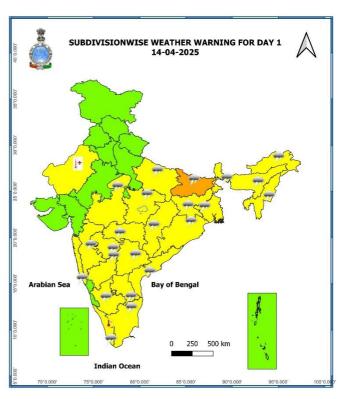
- The **Western Disturbance** as a trough in middle to upper tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 83°E to north of Lat. 20°N.
- ❖ A **trough** runs from West Rajasthan to Gulf of Mannar across East Rajasthan, West Madhya Pradesh, Vidarbha, Marathwada, interior Karnataka, Tamil Nadu at 0.9 km above mean sea level.
- The trough from southeast Madhya Pradesh to central parts of Telangana across Vidarbha at 0.9 km has merged with the above trough.
- The trough from central parts of west Rajasthan to southeast Madhya Pradesh has also merged with the above trough.
- An upper air **cyclonic circulation** lies over northeast Madhya Pradesh & neighbourhood at 1.5 km above mean sea level.
- A trough runs from above **cyclonic circulation** over northeast Madhya Pradesh to south coastal Odisha across Chhattisgarh at 1.5 km above mean sea level.
- An upper air **cyclonic circulation** lies over Bangladesh & neighbourhood at 0.9 km above man sea level.
- ❖ A trough runs from West Madhya Pradesh to above cyclonic circulation over Bangladesh across East Madhya Pradesh, Jharkhand and Gangetic West Bengal at 0.9 km above mean sea level.
- An upper air **cyclonic circulation** lies over Gulf of Mannar & neighbourhood and extends between 1.5 km & 3.1 km above mean sea level.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 16th April, 2025.
- The upper air cyclonic circulation over southeast Madhya Pradesh at 0.9 km above mean sea level has become less marked.
- The upper air **cyclonic circulation** over south Assam at 1.5 km above mean sea level has become less marked.
- The upper air cyclonic circulation over central parts of Coastal Andhra Pradesh & Yanam & neighbourhood at 0.9 km above mean sea level has become less marked.
- The **trough** from central parts of Bihar to North Coastal Odisha across Jharkhand at 3.1 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 21st April, 2025)



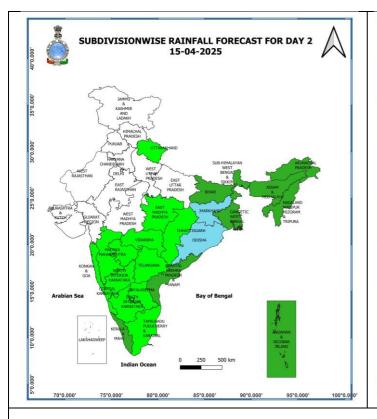


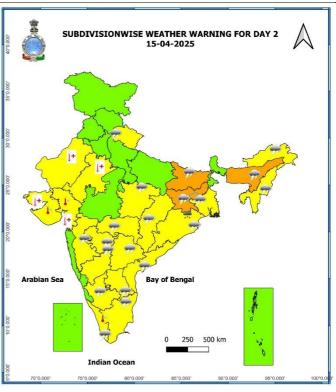
14th April (Day 1):

- **❖ Heavy rainfall (≥ 7 cm)** likely at isolated places over Assam & Meghalaya.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) at isolated places over Bihar, Gangetic West Bengal; with lightning & gusty winds, Hailstorm(speed reaching 40 50 kmph) at isolated places over East Madhya Pradesh with lightning & gusty winds (speed reaching 40 50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, west Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Kerala & Mahe; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Interior Karnataka, East Uttar Pradesh and Vidarbha; with lightning at isolated places over Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal.
- **Heat wave conditions** very likely in isolated pockets over West Rajasthan.
- ❖ Hot and Humid conditions very likely in isolated pockets over Kerala & Mahe.
- ❖ Squally wind with speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over along & off Gujarat coast and adjoining northeast Arabian sea.







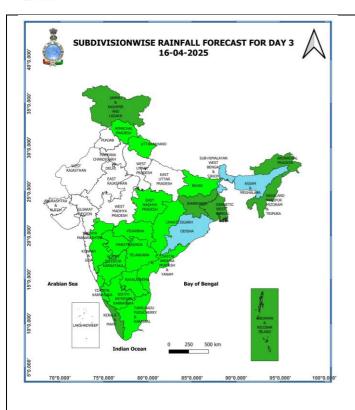


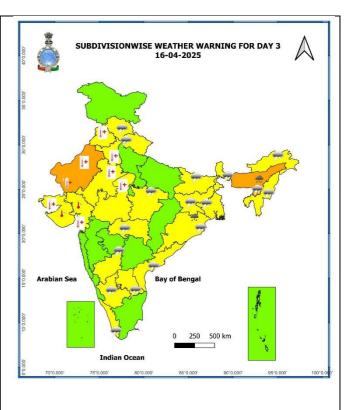
15th April (Day 2):

- **♦ Heavy rainfall (≥ 7 cm)** likely at isolated places over Odisha.
- Thundersquall accompanied with lightning, gusty winds, hailstorm(speed reaching 50 60 kmph) at isolated places over Jharkhand; Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) at isolated places over Assam & Meghalaya; Thundersquall accompanied with lightning, gusty winds (speed reaching 40 50 kmph) at isolated places over Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Gangetic West Bengal, Bihar, Madhya Maharashtra, Marathwada, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; with lightning at isolated places over Uttarakhand and East Madhya Pradesh Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal,
- ❖ **Heat wave** likely in isolated pockets over Rajasthan, Gujarat State;
- ❖ Hot and Humid very likely at isolated places over Gujarat state and Kerala & Mahe.





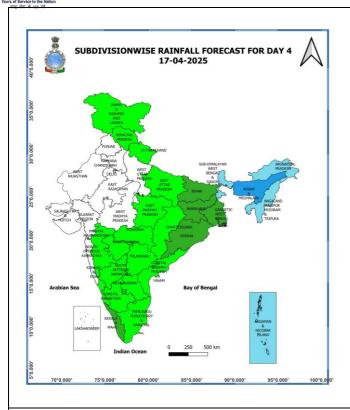


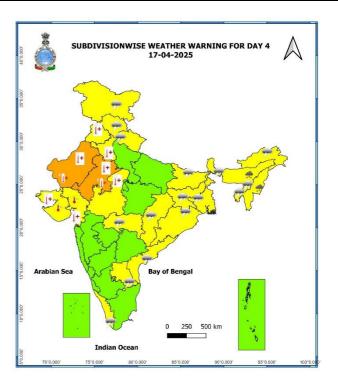


16th April (Day 3):

- **♦ Heavy rainfall (≥ 7 cm)** very likely at isolated places over Odisha and Assam & Meghalaya.
- *Thundersquall accompanied with lightning, gusty winds (speed reaching 40 50 kmph) at isolated places over Vidarbha, Jharkhand, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Bihar, Rayalaseema and Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Arunachal Pradesh, Kerala & Mahe and Interior Karnataka.
- **♦ Heat wave at some places with severe Heat wave conditions** likely at many places of West Rajasthan; **Heat wave conditions** in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, West Madhya Pradesh, Gujarat State.
- **❖ Hot and Humid conditions** very likely at isolated places over Gujarat state.
- **❖ Warm night conditions** very likely at isolated places over West Rajasthan





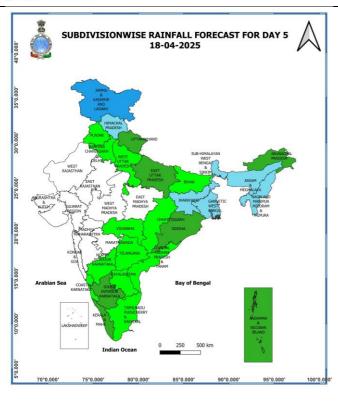


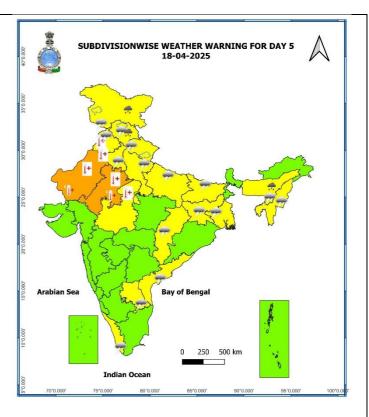
17th April (Day 4):

- **❖ Heavy rainfall (≥ 7 cm)** very likely at isolated places over Assam & Meghalaya, Mizoram and Tripura.
- ❖ Thundersquall accompanied with lightning, gusty winds (speed reaching 40 50 kmph) at isolated places over Chhattisgarh, Bihar, Jharkhand, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Arunachal Pradesh, Kerala & Mahe, Rayalaseema, Uttarakhand and Himachal Pradesh.
- Heat wave at some places with severe Heat wave conditions likely at many places of Rajasthan; Heat wave conditions in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Gujarat state.
- ❖ Hot and Humid very likely at isolated places over Gujarat state.



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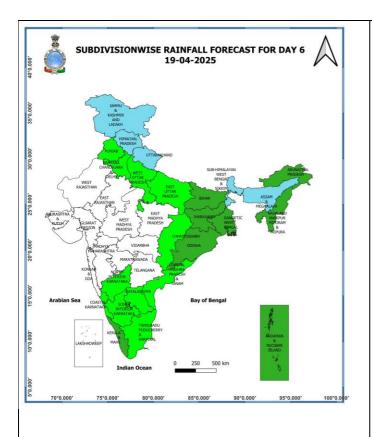


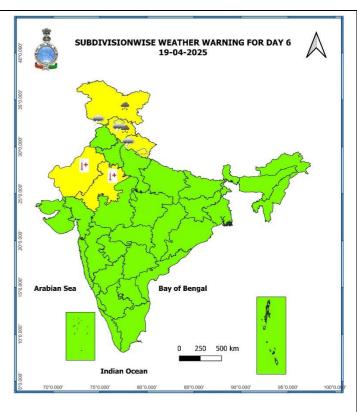
18th April (Day 5):

- ❖ Heavy rainfall/snowfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Assam & Meghalaya.
- ❖ Thundersquall accompanied with lightning, gusty winds (speed reaching 40 50 kmph) at isolated places over Chhattisgarh, Bihar, Jharkhand, Assam & Meghalaya Thundersquall accompanied with lightning, gusty winds, hailstorm (speed reaching 30 40 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Gangetic West Bengal; with lightning at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ Heat wave at some places with severe Heat wave conditions likely at many places of West Rajasthan; Heat wave conditions in isolated pockets over East Rajasthan, Punjab, Haryana-Chandigarh-Delhi and West Madhya Pradesh.



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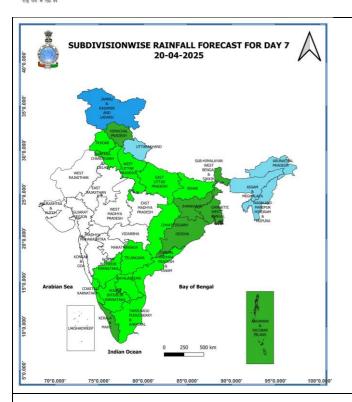


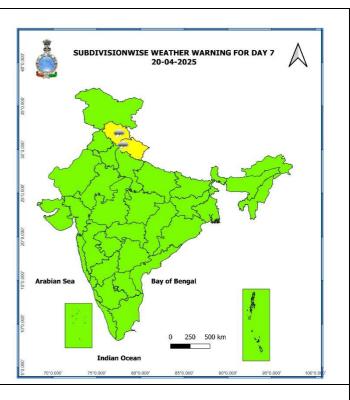
19th April (Day 6):

- * Heat wave conditions in isolated pockets over Rajasthan.
- ❖ Heavy rainfall/snowfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ Thundersquall accompanied with lightning, gusty winds, hailstorm (speed reaching 30 40 kmph) at isolated places over Himachal Pradesh and Uttarakhand.



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20th April (Day 7):

Thunderstorm accompanied with lightning at isolated places over Himachal Pradesh and Uttarakhand.

Weather Outlook for subsequent 3 days (During 21st April- 23rd April, 2025)

Fairly widespread to widespread rainfall activity likely over east & northeast India, Kerala. **Isolated to scattered rainfall** likely over Western Himalayan region, north Uttar Pradesh remaining parts of south peninsular India and Andaman & Nicobar Islands.

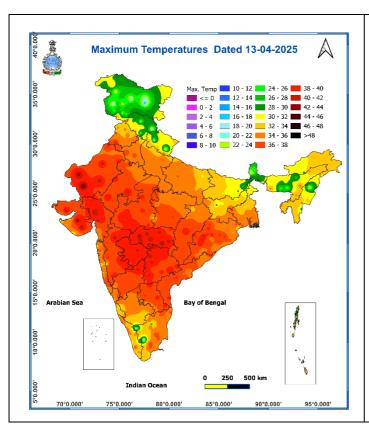
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

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



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures



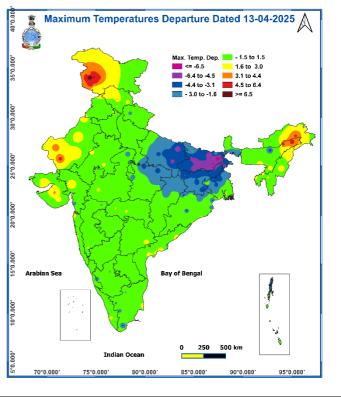
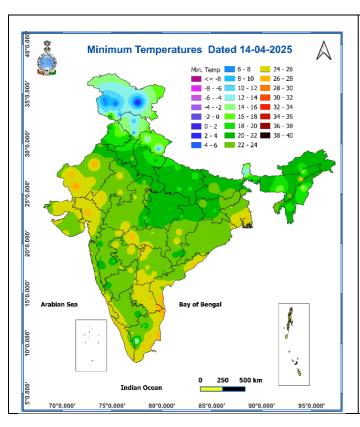
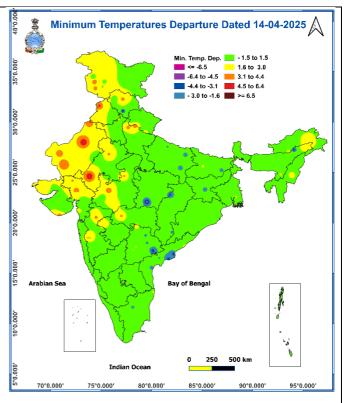


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures









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Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over East Madhya Pradesh on 14th; Jharkhand on 15th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th; Himachal Pradesh, Uttarakhand on 18th & 19th April.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- ➤ Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to 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 to severe heat wave conditions over

- 1. **Heat wave conditions to severe heat wave condition** over West Rajasthan during 14th-19th with severe heat wave conditions at isolated/some parts during 16th-18th April.
- 2. **Heat wave conditions** over East Rajasthan during 15th-19th; Gujarat State during 15th-17th; Punjab, Haryana, West Madhya Pradesh during 16th-18th April.

Orange alert Areas

- ➤ 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.





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Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heatwave

- ➤ In **Jharkhand**, immediately shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields to avoid the adverse impact of likely hailstorm. Use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- ➤ In **Meghalaya** and **Odisha**, immediately harvest the mature crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Also make provision to drain out excess water from standing crop and vegetable fields.
- ➤ In Rajasthan, Punjab, Haryana, West Madhya Pradesh and Gujarat, apply light and frequent irrigation to standing crops in the evening to protect them from heat waves.
- > Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

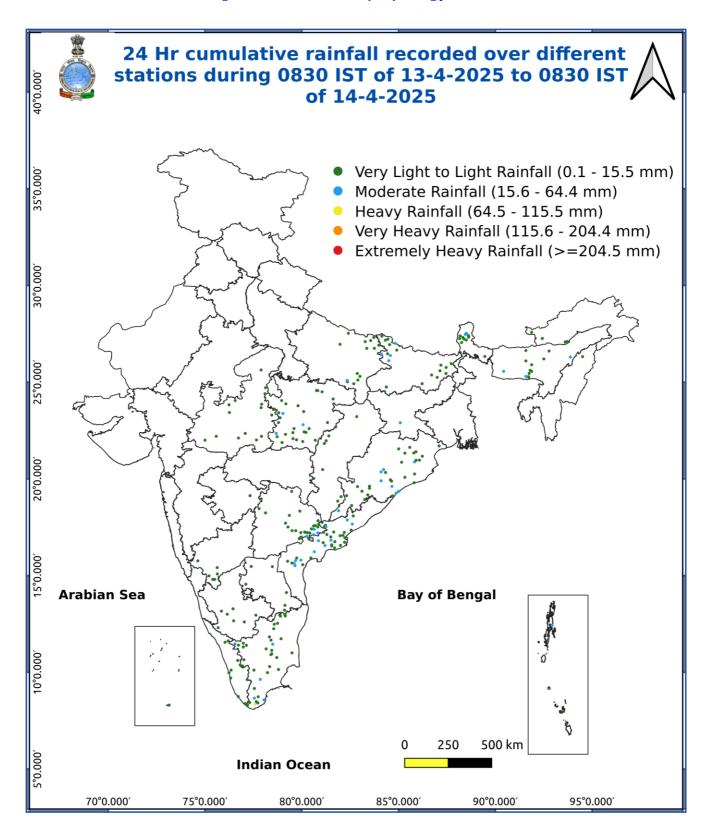
Livestock / Poultry / Fishery

- ➤ 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.
- > 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.
- > Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.





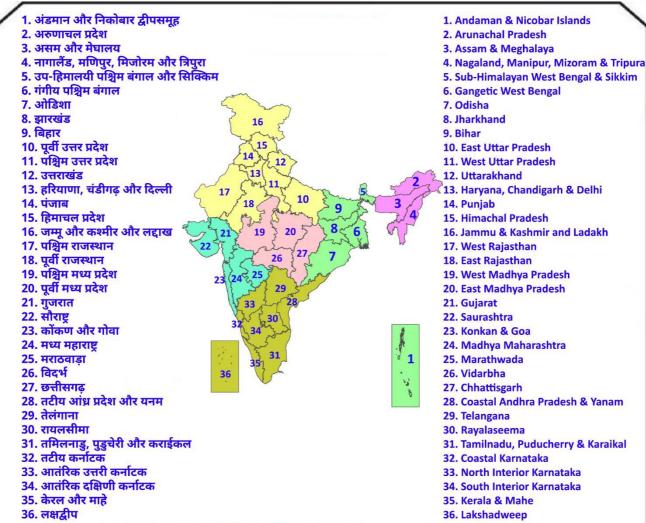
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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LEGENDS



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 Wides	oread (FWS/Many Places	1-25	Isolated (ISOL)			
= Fog		Heavy Snow	_ Cold Wa	ve	COLOUR CODED WARNING		
_ 10g			J		No Warning (No Action)		
Heavy Rain		ين Dust Storm	Cold Day		Watch (Be Aware)		
Very Heav	vy Rain	+ Heat Wave	Ground Frost		Alert (Be Prepared To Take Action)		
Extremely	y Heavy Rain	+ Warm Night			Warning (Take Action)		
Thunder & Lightning		• Lat Day			Probabilistic Forecast		
		+ Hot Day			Terms	Probability of Occurrence (%)	
# Hailstorm		1 11 - 0 11 - 11			Unlikely	< 25	
		P Hot & Humid		-	Likely Very Likely	25 - 50 50 - 75	
Dust Rais	ing Winds	Strong Surface W	Strong Surface Winds			> 75	

Strong Surface Winds





	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 *
	Extremely Heavy: > 204.4 mm/cm
Heat Wave	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.
	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
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 °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
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres
9	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres
1000	
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.
	les denocite en ground
Frost	Ice deposits on ground Air temperature ≤4°C (over Plains)
2 - 1	The temperature 24 of event liains)
	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
Sea State	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 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)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
	Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

Hot and Humid: When maximum temperatures remains 3°C above normal along with the above normal relative humidity.