



2025-11-13

Time of Issue: 13:14:00 hours IST

(Mid-Day)

#### ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

#### **Significant Weather Features**

## Weather, Forecast and Warnings:

- Light to moderate rainfall/thunderstorm at most/many places with isolated heavy rainfall very likely over Tamil Nadu on 13<sup>th</sup> & during 16<sup>th</sup> 18<sup>th</sup>; over Kerala & Mahe on 13<sup>th</sup> & during 17<sup>th</sup> -19<sup>th</sup> over Coastal Andhra Pradesh & Yanam and Rayalaseema during 17<sup>th</sup> 19<sup>th</sup> November.
- Thunderstorm with lightning very likely over Tamil Nadu on 13<sup>th</sup> ,16<sup>th</sup> & 17<sup>th</sup> over Kerala & Mahe during 13<sup>th</sup>, 14<sup>th</sup> & 17<sup>th</sup>; over Coastal Andhra Pradesh & Yanam & Rayalaseema on 16<sup>th</sup> & 17<sup>th</sup>; over Coastal Karnataka and South Interior Karnataka on 16<sup>th</sup> November.

#### Forecast of temperature and cold wave and cold day warnings:

- Cold wave to Severe Cold wave conditions very likely at isolated places overWest Madhya Pradesh on 13<sup>th</sup> & 14<sup>th</sup> and Cold wave conditions in isolated pockets on 15<sup>th</sup> & 16<sup>th</sup> November.
- Cold wave conditions very likely to prevail in isolated pockets over Chhattisgarh and East Madhya Pradesh during 13<sup>th</sup> 16<sup>th</sup> November.
- Shallow to moderate fog conditions likely over Northeast India and Uttar Pradesh during next 5 days.
- No large change in minimum temperature likely over West India during next 3 days and thereafter fall by 2-3°C over North Madhya Maharashtra.
- No large change in minimum temperature likely over the remaining parts of the country during the forecast period.



## National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

#### **Main Weather Observations:**

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Andaman & Nicobar Islands and Kerala & Mahe; at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; **Dry** over rest of the country.
  - \* Significant rainfall recorded(in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today): Tamil Nadu, Puducherry & Karaikal: Oothu (dist Tirunelveli) 9; Kakkachi (dist Tirunelveli), Manjolai (dist Tirunelveli), Nalumukku (dist Tirunelveli) 7 Each; Ottapadiram (dist Toothukudi) 6; Radhapuram (dist Tirunelveli), Adavinainnarkoil Dam (dist Tenkasi) 5 Each; Gummidipoondi (dist Tiruvallur), Moolaikaraipatti (dist Tirunelveli) 4 Each; Papanasam (dist Tirunelveli), Tirunelveli AWS (dist Tirunelveli), Pilavakkal (dist Virudhunagar), Tirunelveli (dist Tirunelveli), Karuppanadhi Dam (dist Tenkasi), Gundar Dam (dist Tenkasi), Nambiyar Dam (dist Tirunelveli) 3 Each; Ambasamudram (dist Tirunelveli), Palayamkottai (dist Tirunelveli), Mannargudi (dist Tiruvarur), Chittar (dist Kanyakumari), Mandapam (dist Ramanathapuram), Sivalogam(chittar li) (dist Kanyakumari), Adar Estate (dist Nilgiris), Thirparappu (dist Kanyakumari), Servalar Dam (dist Tirunelveli) 2 Each; Kerala & Mahe: Aryankavu (dist Kollam), Palode AWS (dist Thiruvananthapuram) 5 Each; Punalur (dist Kollam), Laha AWS (dist Pathanamthitta) 3 Each; Thodupuzha (dist Idukki), Konni (dist Pathanamthitta), Idukki (dist Idukki), Mangalam Dam AWS (dist Palakkad), Venkurinji AWS (dist Pathanamthitta), Ranni AWS (dist Pathanamthitta), Pirappancode AWS (dist Thiruvananthapuram), Neyyattinkara (dist Thiruvananthapuram) 2 Each; Andaman & Nicobar Islands: Long Island (dist North & Middle Andaman) 2.
  - ♦ Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today):Heavy rain at isolated places over Tamil Nadu, Puducherry & Karaikal.
  - ♦ Fog Condition Observed (at 0830 hours of today): Shallow fog conditions: at a few places over Haryana Chandigarh & Delhi, at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, East Uttar Pradesh and West Madhya Pradesh.
- Visibility reported (at 0830 hours of today): Rourkela (dist Sundargarh) 500.0; West Madhya Pradesh: Hoshangabad (dist Narmadapuram) 500.0; East Uttar Pradesh: Fursatganj (dist Amethi) 500.0; Haryana Chandigarh & Delhi: New Delhi (safdarjung), New Delhi (palam) AP (dist South West Delhi) 500.0 Each;.
- Cold wave to severe cold wave conditions prevailed over some pockets of Chhattisgarh and isolated pockets over Madhya Pradesh. The temperatures were appreciably below normal over remaining parts of northwest and central India.
- Minimum Temperature Departures (as on 13-11-2025): below normal(-1.6°C to -3.0°C) at few places over Telangana; at isolated places over Marathwada. appreciably below normal(-5.0°C to -3.1°C) at many places over Jharkhand, Vidarbha and Chhattisgarh. markedly below normal(< -5.0°C) at most places over East Madhya Pradesh. The lowest minimum temperature of 7.4°C is reported at Rajgarh (Madhya Pradesh), Ambikapur (Chhattisgarh) over the plains of India.
  - ♦ Maximum Temperature Departures (as on 12-11-2025): The highest maximum temperature of 34.2°C is reported at ERODE-OBS (TAMIL NADU).



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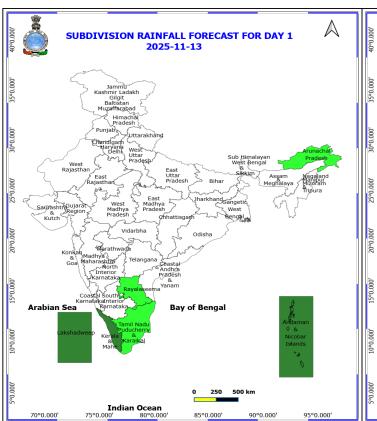
#### Meteorological Analysis (Based on 0830 hours IST)

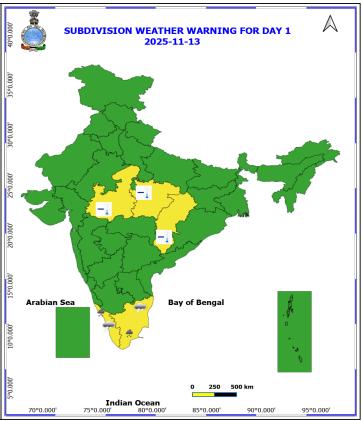
- The **upper air cyclonic circulation** over southwest and adjoining southeast Bay of Bengal extending upto 1.5 km above mean sea level persists.
- An **upper air cyclonic circulation** lies over southeast Bangladesh and neighbourhood at 1.5 km above mean sea level.
- A **Western Disturbance** as an **upper air cyclonic circulation** lies over Kashmir and neighbourhood at 5.8 km above mean sea level.
- The **upper air cyclonic circulation** over north Haryana and neighbourhood at 3.1 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood at 5.8 km above mean sea level has become less marked.

### Weather Outlook for subsequent 3 days

- fairly widespread to widespread rainfall activity likely over Tamil Nadu, Kerala and Islands.
- Isolated to Scattered rainfall activity over Coastal Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.



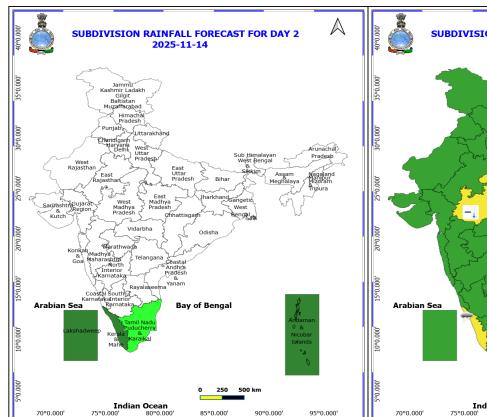


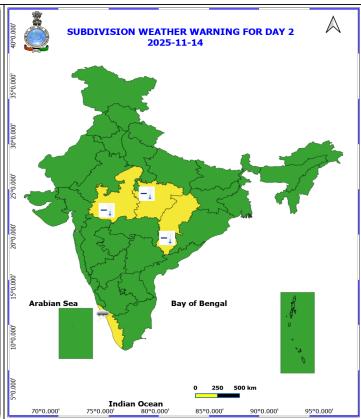


### 13 November (Day 1)

- Heavy Rainfall very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ♦ Thunderstorm accompanied with Lightning very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ Cold wave conditions very likely at isolated places over Chhattisgarh and Madhya Pradesh.
  - Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail along and off south Kerala coast, adjoining Lakshadweep and Comorin areas.



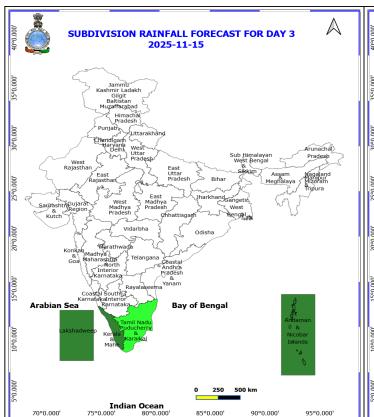


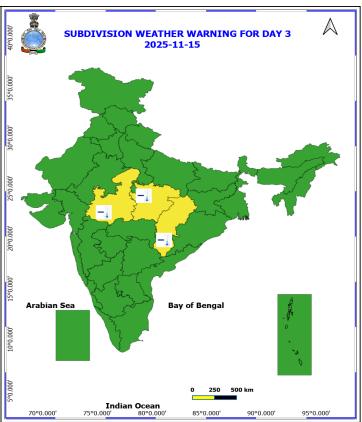


### 14 November (Day 2)

- Thunderstorm accompanied with Lightning very likely at isolated places over Kerala & Mahe.
- Cold wave conditions very likely at isolated places over Chhattisgarh and Madhya Pradesh.
  - Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail along and off Sri Lanka coast, adjoining & many parts of southwest Bay of Bengal, Gulf of Mannar, adjoining Comorin area.



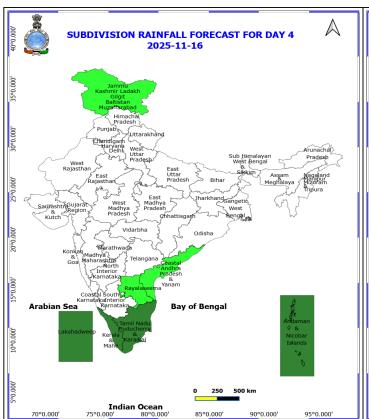


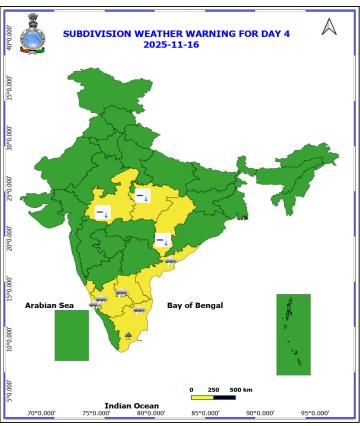


### 15 November (Day 3)

- Cold wave conditions very likely at isolated places over Chhattisgarh and Madhya Pradesh.
  - Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph will prevail along and off Sri Lanka coast, adjoining & many parts of southwest Bay of Bengal, Gulf of Mannar, adjoining Comorin area.





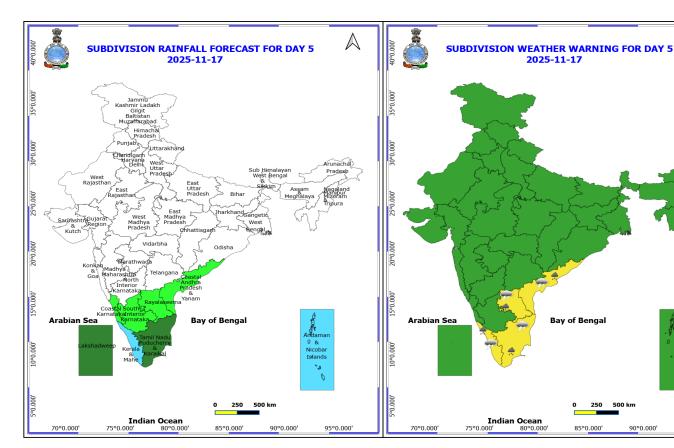


### 16 November (Day 4)

- Heavy Rainfall likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ♦ Thunderstorm accompanied with Lightning likely at isolated places over Andhra Pradesh, Coastal Karnataka, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ Cold wave conditions likely at isolated places over Chhattisgarh and Madhya Pradesh.



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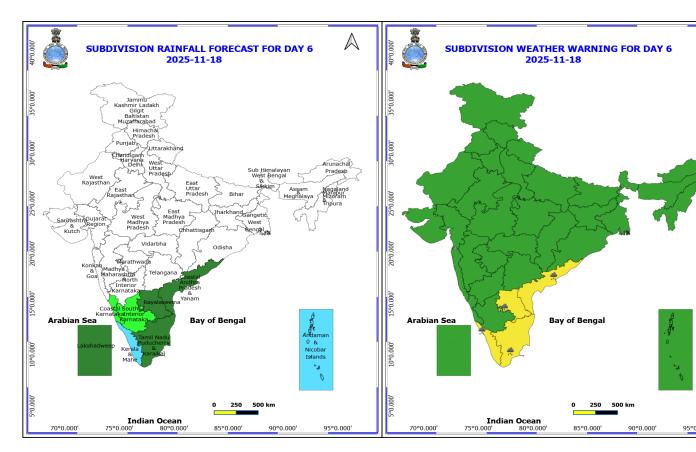


## 17 November (Day 5)

- ♦ Heavy Rainfall likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ♦ Thunderstorm accompanied with Lightning likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.



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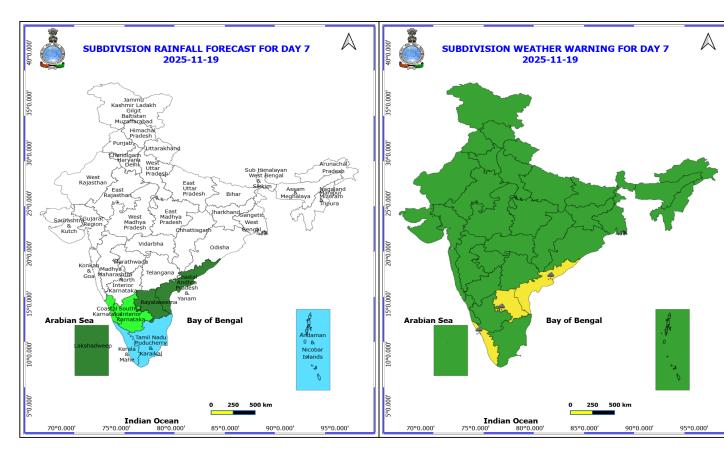


## 18 November (Day 6)

♦ Heavy Rainfall likely at isolated places over Andhra Pradesh, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.



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### 19 November (Day 7)

♦ Heavy Rainfall likely at isolated places over Andhra Pradesh and Kerala & Mahe.



# Table-1

# 7 Days Rainfall Forecast

	r Days Maini	<b>MII</b> .		<b>5 5 4</b>				
S.No.	Subdivision	13-	14-	15-	16-	17-	18-	19-
		Nov	Nov	Nov	Nov	Nov	Nov	Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1 .	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	SCT	FWS	FWS	FWS
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8 .	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	ISOL	ISOL	SCT	SCT
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	DRY	DRY	ISOL	ISOL	SCT	SCT
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	SCT	SCT	SCT	FWS
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
35	KERALA	SCT	SCT	SCT	SCT	FWS	FWS	FWS
36	LAKSHDWEEP	SCT	SCT	SCT	SCT	SCT	SCT	SCT

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

Fig. 1: Maximum Temperatures Dated 2025-11-12

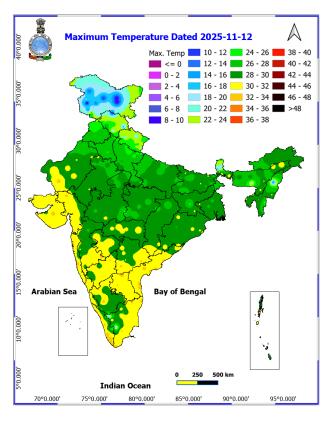


Fig. 3: Minimum Temperatures Dated 2025-11-13

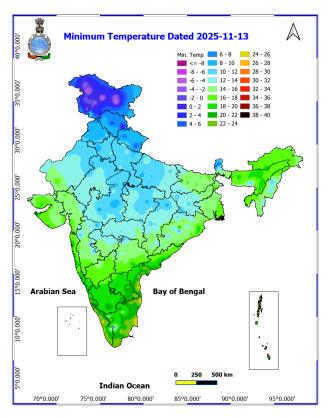


Fig. 2: Departure of Maximum Temp. Dated 2025-11-12

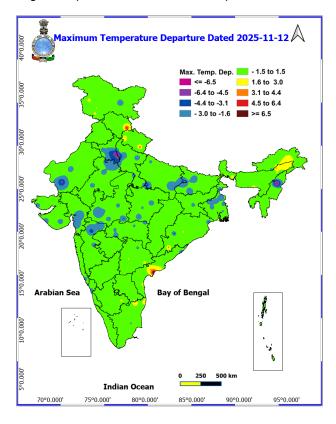
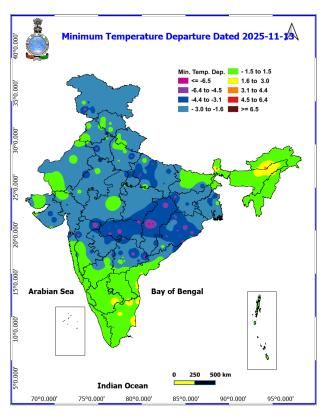
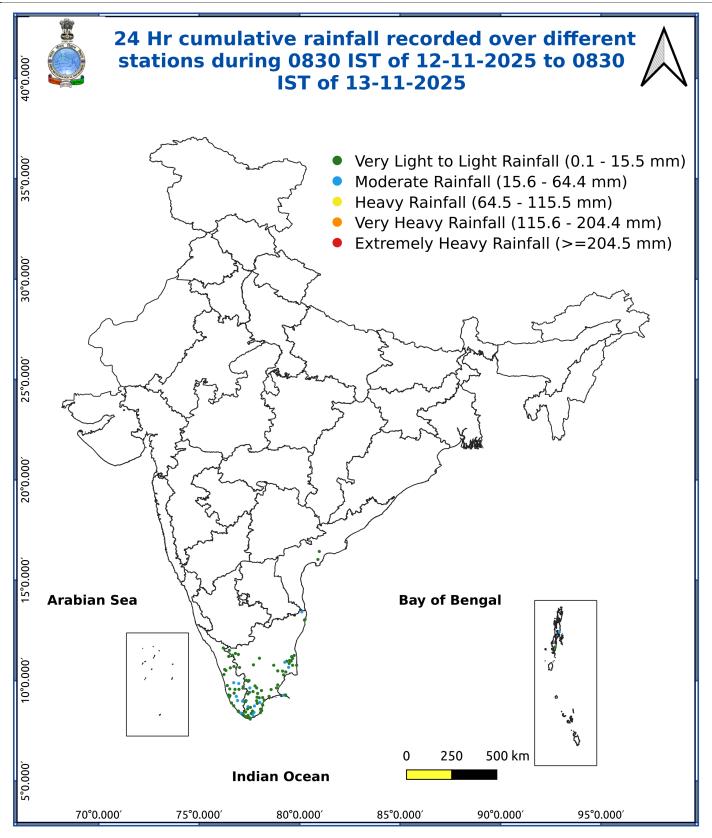


Fig. 4: Departure of Minimum Temp. Dated 2025-11-13









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Cold wave to Severe Cold wave conditions very likely over Madhya Pradesh on 13<sup>th</sup> & 14<sup>th</sup> November.

#### Impact Expected:

- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

#### **Action suggested:**

- · Wear several layers of loose fitting, light weight; warm woollen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm Woolen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- · Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- · Protect livestock from cold weather.

#### Agromet advisories for various parts of the country

#### Agromet advisories for likely impact of Heavy Rainfall / Cold Wave

In **Tamil Nadu**, harvest matured rice and groundnut crops only during clear weather and store the harvested produce in safer places. Make arrangements to drain out excess water from fields of rice, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana and black pepper to avoid water stagnation. Provide support to banana plants with wooden poles to prevent them from falling.

In **Madhya Pradesh** and **Chhattisgarh**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

## Livestock / poultry/ 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.
- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.

#### Agromet advisories for likely impact of Thunderstorm

 Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.



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## 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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

### Subdivision Colour

NO WARNING

WATCH (BE UPDATED)

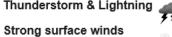
ALERT (BE PREPARED TO TAKE ACTION

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

Probabilistic Forecast

# WARNING (TAKE ACTION)

Heavy Rain Thunderstorm & Lightning









Extremely Heavy Rain 🗼 Heavy Snow





Hot Day



Dust Raising Winds Warm Night





**Ground Frost** 



FOG FOG



		EGENDS	
	WARNING	Probabilistic Forecas	st
	WARNING (TAKE ACTION)	Terms Probability of Occurre	nce (%)
	ALERT ( BE PREPARED)	Unlikely < 25 Likely 25 - 50	
	WATCH (BE UPDATED)	Very Likely 50 - 75	
	NO WARNING ( NO ACTION)	Most Likely > 75	
./ 💭	Heavy: 64.5 to 115.5 mm/cm *		
in/ Snow	Very Heavy: 115.6 to 204.4 mm/cm*  Extremely Heavy: > 204.4 mm/cm *		
iiii onow			0 C f L
	(a) Based on Departure from norma	tation reaches  ≥40° C  for plains and  ≥30 al	o tor n
	Heat Wave: Maximum Temperature Dep	arture from normal 4.5° C to 6.4° C.	
Î+	Severe Heat Wave: Maximum Temperat		
eat Wave	(b). Based on Actual maximum tem	•	
iout maro	Heat Wave: When actual maximum temp Severe Heat Wave: When actual maxim		
	(c). Criteria for heat wave for coast		
	When maximum temperature departure is	>4.5°C from normal. Heat Wave may be describe	d provide
	temperature ≥37°C		
Ĵ+	When maximum temperature rema Warm Night: When minimum temperature		
Varm Night	Severe Warm Night: When minimum temperatur		
		station ≤10°C for plains and ≤0°C for h	illy regi
	(a). Based on departure  Cold Wave: Minimum Temperature Depart	urture from normal A 5 9C to 6 4 9C	
	Severe Cold Wave: Minimum Temperature Depa		
J-	(b) Based on actual Minimum Tem		
Cold Wave	Cold Wave : When Minimum Temperatur		
	Severe Cold Wave: When Minimum Ter	nperature is ≤ 2.0 °C	
	( c) For Coastal Stations		
	When Minimum Temperature departure	is ≤-4.5 °C & actual Minimum Temperature is ≤	15 °C
		tation ≤10°C for plains and ≤0°C for hilly	regions
<b> </b> -	Based on departure  Cold Day: Maximum Temperature Depar	ture from normal -4.5 °C to -6.4 °C	
Cold Day	Severe Cold Day: Maximum Temperatur		
	Pharaman of annul decide		! - !!- !!!
<b>A</b>	Moderate Fog: When the visibility between	suspended in air and the horizontal	VISIDIII
•	Dense Fog: when the visibility between		
Fog	Very Dense Fog: when the visibility < 50	metres	
7.			
79	Sudden electrical discharges manif sound (thunder)	ested by a flash of light (Lightning) and a	sharp r
nunderstorm	(		
luliuerstoriii			
understorm	An annumble of continuous states	and anamatically life of to according to the	h
Dust/Sand	An ensemble of particles of dust or turbulent wind.	sand energetically lifted to great heights	by a str
		sand energetically lifted to great heights	by a str
Dust/Sand		sand energetically lifted to great heights	by a str
Dust/Sand Storm	turbulent wind.	sand energetically lifted to great heights	by a str
Dust/Sand	lce deposits on ground [Air temperature ≤4°C ( over Plains)		by a str
Dust/Sand Storm	lce deposits on ground [Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde	sand energetically lifted to great heights l	by a str
Dust/Sand Storm	lce deposits on ground [Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde [Moderate: Wind speed 52-61 kmph]		by a str
Dust/Sand Storm	lce deposits on ground [Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde		by a sti
Dust/Sand Storm  Frost	lce deposits on ground Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph	enly, lasts for atleast 1 minute.	by a str
Dust/Sand Storm  Frost	Ice deposits on ground  Air temperature ≤4°C (over Plains)  A strong wind that rises sudde  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	enly, lasts for atleast 1 minute.	by a str
Dust/Sand Storm  Frost  Squall	Ice deposits on ground  Air temperature ≤4°C (over Plains)  A strong wind that rises sudde  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  Rough to very rough: Wind speed 41-6	enly, lasts for atleast 1 minute.	by a sti
Dust/Sand Storm  Frost	Ice deposits on ground  Air temperature ≤4°C (over Plains)  A strong wind that rises sudde  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  Rough to very rough: Wind speed 41-6	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre	by a str
Dust/Sand Storm  Frost  Squall	Lice deposits on ground  Air temperature \$4°C ( over Plains)  A strong wind that rises sudded 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 Rough to very rough: Wind speed 41-64 High to very high: Wind speed 63-117 kmph (>90 kmph wind speed >117 kmph wind speed >117 kmph (>90 kmph wind speed >117 kmph wind speed >117 kmph (>90 kmph wind speed >117	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre 63 knots) & Wave height >14 metre	by a str
Dust/Sand Storm  Frost  Squall	turbulent wind.  Ice deposits on ground  Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde  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  Rough to very rough: Wind speed 41-6  High to very high: Wind speed 63-117 k	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre 63 knots) & Wave height >14 metre h (34-47 knots)	by a str
Dust/Sand Storm  Frost  Squall	Ice deposits on ground  Air temperature \$4°C ( over Plains)  A strong wind that rises sudded 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 Rough to very rough: Wind speed 63-117 kmph (>Phenomenal: Wind speed >117 kmph (>Cyclonic Storm: Wind speed 62-87 kmph	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre 63 knots) & Wave height >14 metre  th (34-47 knots) 3-117 kmph (48-63 knots) seed 118-165 kmph (64 - 89 knots)	by a str