



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

Wednesday, November 13, 2024 Time of Issue: 0800 hours IST (MORNING)

## **All India Weather Warning Bulletin**

Weather Warnings for next 7 days is given below: (Graphics for warnings & rainfall distribution (Table 1) are given below the text:

# 13 November (Day 1):

- ❖ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema and South Interior Karnataka.
- ❖ Dense to very dense fog conditions very likely in isolated pockets of Punjab and dense fog conditions in isolated pockets of Himachal Pradesh, Haryana-Chandigarh-Delhi and Uttar Pradesh in the morning hours.
- ❖ Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and South Interior Karnataka.
- ❖ Squally Weather with Wind Speed 35-45 Kmph Gusting To 55 Kmph Over Parts Of Southwest Bay Of Bengal, Along And Off Sri Lanka Coast, Along And Off Tamil Nadu, South Andhra Pradesh Coasts, Gulf Of Mannar And Adjoining Comorin Area.

## 14 November (Day 2):

- ❖ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- ❖ **Dense fog** conditions very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh,
- ❖ Thunderstorm accompanied with lightning likely at isolated places over Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka.





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## 15 November (Day 3):

- **♦ Heavy rainfall (≥ 7 cm)** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- ❖ **Dense to fog** conditions very likely in isolated pockets of Himachal Pradesh and Punjab.
- ❖ Thunderstorm accompanied with lightning likely at isolated places over Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.

## 16 November (Day 4):

- ❖ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Dense to fog** conditions very likely in isolated pockets of Himachal Pradesh.
- ❖ Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.

## 17 November (Day 5):

**❖ Heavy rainfall (≥ 7 cm)** likely at isolated places over Kerala & Mahe.

## 18 November (Day 6):

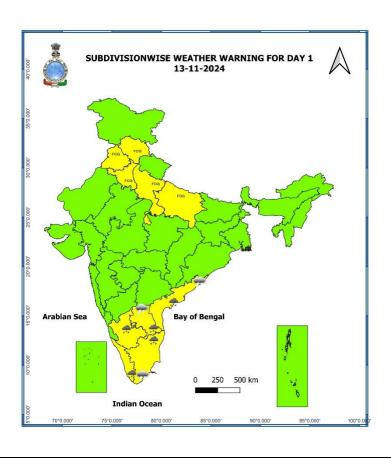
**❖** No Warning.

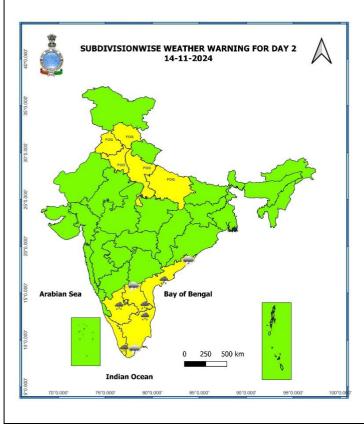
## 19 November (Day 7):

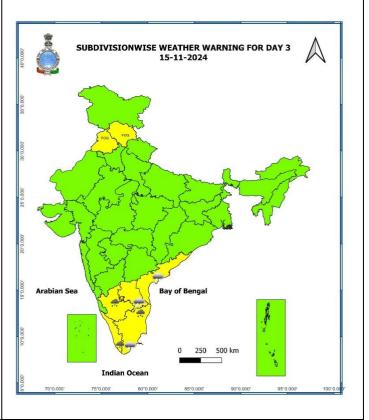
**❖** No Warning.







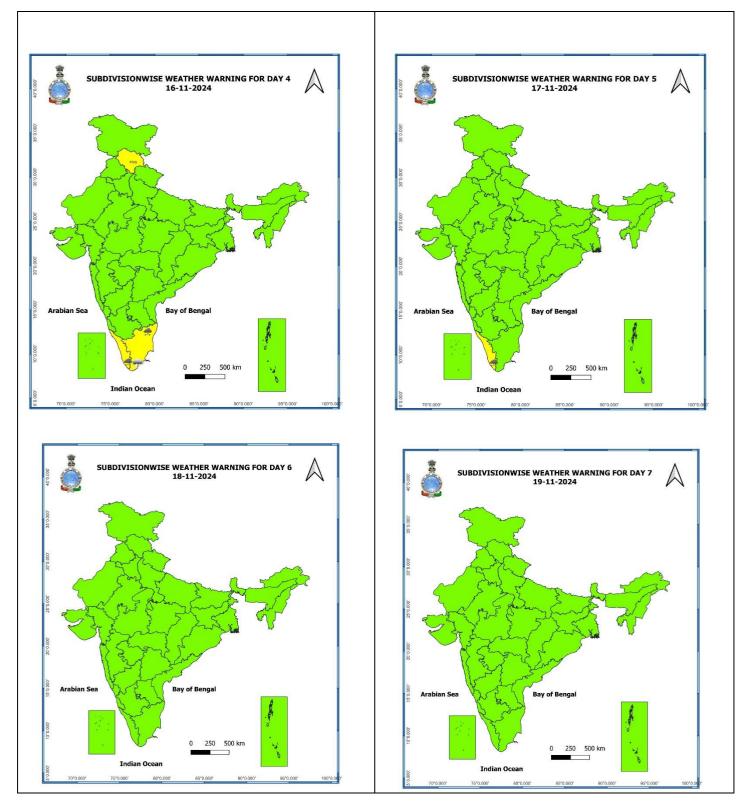








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- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Table-1

	7 Days R	ainfall F	orecas	t				
S. No.	Subdivision	13- Nov Day	14- Nov Day	15- Nov Day	16- Nov Day	17- Nov Day	18- Nov Day	19- Nov Day
		1	2	3	4	5	6	7
1	ANDAMAN & NICOBAR ISLANDS	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	DRY						
3	ASSAM & MEGHALAYA	DRY						
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY						
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY						
13	HARYANA CHANDIGARH & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	DRY	ISOL	SCT	SCT	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY						
25	MARATHAWADA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY						
27	CHHATTISGARH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
30	RAYALASEEMA	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	FWS	FWS	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	WS	FWS	FWS	SCT	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	SCT	SCT	ISOL	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	FWS	WS	FWS	SCT	ISOL	ISOL	ISOL
35	KERALA & MAHE	FWS	FWS	FWS	FWS	SCT	SCT	SCT
36	LAKSHADWEEP	SCT						

• As the lead period increases forecast accuracy decreases.





### **Agromet advisories for Heavy Rainfall likely over various parts of the country:**

- ✓ Make arrangements to drain out excess water from the standing crop fields in Tamilnadu, Kerala, South Interior Karnataka and Andhra Pradesh.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops and staking to vegetables.

### **Legends & abbreviations:**

- **♦ Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ Obsy.: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist.: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- **Region wise classification of meteorological Sub-Divisions:**
- ✓ **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- ✓ **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- ✓ **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- ✓ **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ✓ West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
- ✓ **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.



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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 Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



*	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm*
Rain/ Snow *	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.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
Heat 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 ≤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.
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
	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
E	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
Γhunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Thunderstorm  Dust/Sand Storm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)  An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and
Dust/Sand	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
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  Air temperature ≤4°C (over Plains)
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  Air temperature ≤4°C ( over Plains)  A strong wind that rises suddenly, lasts for atleast 1 minute.
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Dust/Sand Storm  Frost  Squall	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.  Ice deposits on ground  Air temperature ≤4°C ( over Plains)  A strong wind that rises suddenly, lasts for atleast 1 minute.  Moderate: Wind speed 52-61 kmph  Severe: Wind speed 62-87 kmph
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  Air temperature ≤4°C ( over Plains)  A strong wind that rises suddenly, lasts for atleast 1 minute.  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
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