



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Tuesday, December 03, 2024 Time of Issue: 1945 hours IST (NIGHT)

All India Impact Based Weather Warning Bulletin

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

03 December (Day 1):

- Heavy to very heavy rainfall at isolated places is very likely over north Kerala; Heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal & South Interior Karnataka and Rayalaseema.
- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevailing along and off Kerala, Karnataka, off goa coasts, over Lakshadweep area, adjoining southeast Arabian sea, southern parts of eastcentral Arabian sea. Fishermen are advised not to venture into these areas.

04 December (Day 2):

- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevailing over Lakshadweep area, adjoining southeast Arabian sea, southern parts of eastcentral Arabian sea. Fishermen are advised not to venture into these areas.





05 December (Day 3):

- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevailing over southern parts of eastcentral adjoining parts of southeast Arabian sea and off Lakshadweep area. Fishermen are advised not to venture into these areas.

06 December (Day 4):

- **❖ Thunderstorm accompanied with lightning** likely at isolated places over Madhya Maharashtra and Coastal Karnataka.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevailing over central parts of south Arabian sea, adjoining parts of central Arabian sea area. Fishermen are advised not to venture into these areas.

07 December (Day 5):

- **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Karnataka.
- ❖ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevailing over southwest Arabian sea and adjoining areas. Fishermen are advised not to venture into these areas.

08 December (Day 6):

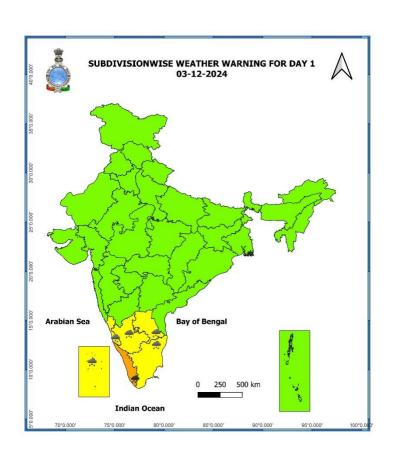
❖ No Warning.

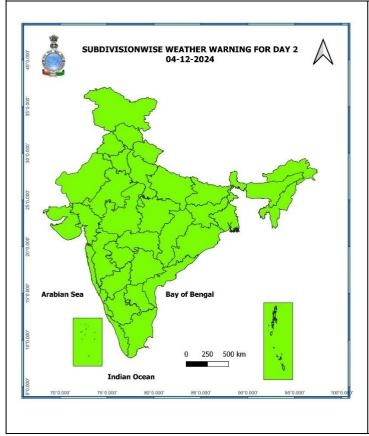
09 December (Day 7):

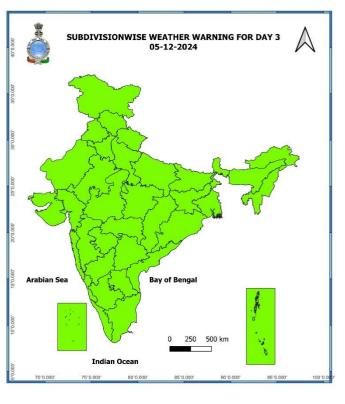
❖ No Warning.







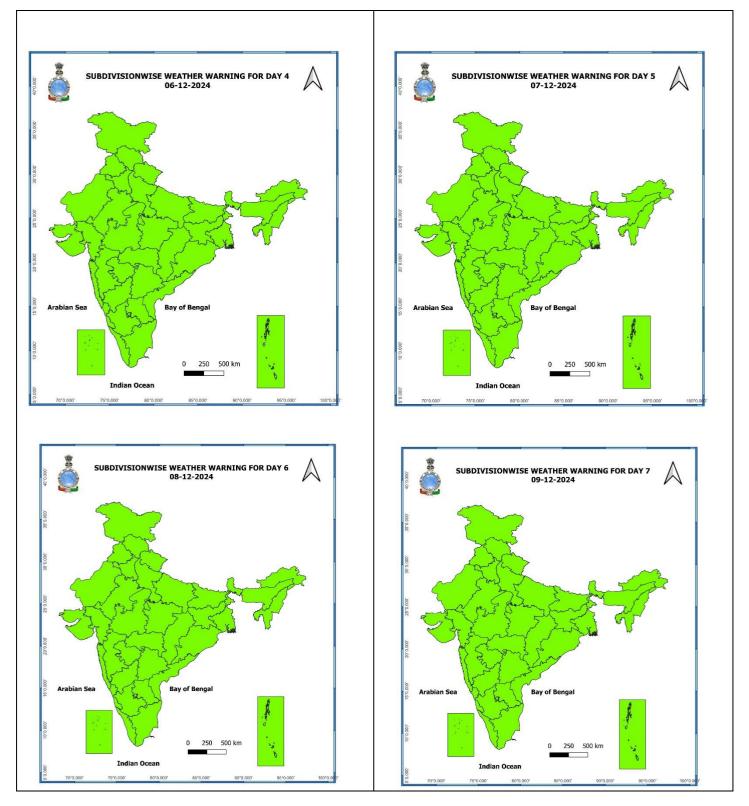








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- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





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Table-1

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	7 Days Rai	nfall Fo	orecast	t				
S. No.	Subdivision	03- Dec Day	04- Dec Day	05- Dec Day	06- Dec Day	07- Dec Day	08- Dec Day	09- Dec Day
		1	2	3	4	5	6	7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
3	ASSAM & MEGHALAYA	DRY						
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY						
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
26	VIDARBHA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
27	CHHATTISGARH	ISOL						
28	COASTAL ANDHRA PRADESH & YANAM	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL
29	TELANGANA	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
30	RAYALASEEMA	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	FWS	SCT	SCT	FWS	SCT	DRY
33	NORTH INTERIOR KARNATAKA	FWS	ISOL	SCT	SCT	SCT	ISOL	DRY
34	SOUTH INTERIOR KARNATAKA	FWS	ISOL	SCT	SCT	SCT	ISOL	DRY
35	KERALA & MAHE	FWS	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	FWS	SCT	SCT	SCT	SCT	SCT	SCT

• As the lead period increases forecast accuracy decreases.





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Impact expected due to Heavy Rainfall

✓ **Isolated heavy to very heavy rainfall** over Kerala & Mahe on 03rd December.

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.

Agromet advisories for Heavy Rainfall likely over Tamil Nadu, Kerala, Coastal & South Interior Karnataka:

- ➤ Drain out excess water from rice, sugarcane, cotton, turmeric, vegetables, and other standing crop fields, as well as coconut and banana orchards in **Tamil Nadu**; from rice, coffee, banana, coconut, areca nut, ginger, pepper, cardamom and other standing crops in **Kerala**; from cotton, rice, maize, groundnut, finger millet, pigeon pea, areca nut, fruits and vegetables in **South Interior Karnataka** and from areca nut, cashew, coconut, banana, jasmine, black pepper, other standing crops and fruit orchards in **Coastal Karnataka**.
- > 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.

Livestock and Fishery

- ➤ Keep the animals inside the shed during heavy rainfall and provide balanced feed.
- > Store the feed and fodder at safer place to avoid spoilage from rainfall.
- ➤ Hang gunny bags all around poultry sheds.
- > Check and disinfect poultry houses to prevent disease outbreaks due to dampness.
- > Check the huts and other weaker structures before relocation of the animals.
- Remove excess water from fish ponds to avoid losses of fish (if feasible).
- > Check and repair dykes around the ponds to avoid entry of runoff water from the catchment areas.





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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)
_	Hoover Smarr	Cold Wa	COLOUR CODED WARNING





Rain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm*
kain/ 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
ooid 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
Cold Day	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure 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
Dust/Sand	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.
	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
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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
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
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
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
Dust/Sand Storm Frost Squall	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ce deposits on ground
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
Dust/Sand Storm Frost Squall Sea State	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ce deposits on ground
Frost	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ce deposits on ground