

National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

> Thursday, September 28, 2023 Time of Issue: 0800 hours IST (MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

## **Significant Weather Features**

# Withdrawal of Southwest Monsoon:

- Conditions are becoming favourable for further withdrawal of Southwest Monsoon from some more parts of Northwest and adjoining Westcentral India during next 2-3 days.
- The line of withdrawal of Southwest Monsoon continues to pass through 28.3°N/72.0°E, Nokhra, Jodhpur, Barmer and 25.7°N/70.3°E.

# **Significant Weather features:**

- A cyclonic circulation lies over south Chhattisgarh & neighbourhood and a trough runs from north Coastal Karnataka to this cyclonic circulation in lower tropospheric levels.
- A cyclonic circulation is likely to emerge over Eastcentral Bay of Bengal & adjoining north Andaman Sea off Myanmar coast during next 24 hours. Under its influence, a low pressure area is likely to form over Eastcentral Bay of Bengal off Myanmar coast during subsequent 24 hours. Thereafter, it is likely to move northwestwards with possibility of gradual intensification.

# Weather Forecast and Warnings:

**East India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Andaman & Nicobar Islands during 28<sup>th</sup> - 30<sup>th</sup>; Odisha during 29<sup>th</sup> September to 02<sup>nd</sup> October; Gangetic West Bengal on 30<sup>th</sup> and Jharkhand on 30<sup>th</sup> September & 01<sup>st</sup> October.

Isolated very heavy rainfall very likely over Andaman & Nicobar Islands on 28<sup>th</sup> & 29<sup>th</sup> September. Squally weather with wind speed reach 45-55 gusting to 65 likely over Andaman Islands during 28<sup>th</sup>-30<sup>th</sup> September, 2023.

**South India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Tamil Nadu during 28<sup>th</sup>-29<sup>th</sup>; Coastal Karnataka during 28<sup>th</sup> September-02<sup>nd</sup> October; Kerala & Mahe during 28<sup>th</sup>-30<sup>th</sup> and Interior Karnataka during 29<sup>th</sup> September-02<sup>nd</sup> October.

**West India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Konkan-Goa during 28<sup>th</sup>-30<sup>th</sup> and Madhya Maharashtra during 28<sup>th</sup>-29<sup>th</sup> September. **Isolated very heavy rainfall very likely over Konkan -Goa on 28<sup>th</sup> & 29<sup>th</sup> September.** 

**Central India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Chhattisgarh on 30<sup>th</sup> September & 01<sup>st</sup>-02<sup>nd</sup> October.

No significant weather over rest parts of the country.



# Main Weather Observations:

- Rainfall distribution (from 0830 hours to 1730 hours IST of yesterday): at most places over Kerala & Mahe; at many places over Konkan & Goa; at a few places over Madhya Maharashtra, Jharkhand, Sub-Himalaya West Bengal & Sikkim, Telangana, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, Madhya Pradesh, Gujarat state, Vidarbha.
- Significant rainfall recorded (from 0830 hours to 1730 hours IST of yesterday): (in cm): Coastal Andhra Pradesh: Nellore-8; Konkan & Goa: Goa-7; Madhya Maharashtra: Pune-7; Gangetic West Bengal: South Twenty-Four Parganas-5; Odisha: Kendujhar-5; Jharkhand: Deoghar-4;
- Heavy rainfall at isolated places over Konkan & Goa, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam.
- Minimum Temperature Departures (as on 27-09-2023): Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Sub-Himalaya West Bengal & Sikkim; at isolated places over Madhya Maharashtra and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over West Rajasthan; at a few places over East Uttar Pradesh, Bihar, Gangetic West Bengal and Gujarat Region; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Madhya Pradesh, Jharkhand, Chhattisgarh, Odisha, Marathwada and Nagaland, Manipur, Mizoram & Tripura. They were below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 16.5°C was reported at Raisen (West Madhya Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 27-09-2023): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh, Assam & Meghalaya; at a few places over Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over Bihar, Gangetic West Bengal, Himachal Pradesh; at a few places over East Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam; at isolated places over West Uttar Pradesh, Haryana-Chandigarh-Delhi, West Rajasthan, Madhya Pradesh, Chhattisgarh, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Uttarakhand. They were below normal (-1.6°C to -3.0°C) at isolated places over Coastal & South Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.3°C is reported at Barmer (West Rajasthan).



## Meteorological Analysis (Based on 0530 hours IST)

- Conditions are becoming favourable for further withdrawal of Southwest Monsoon from some more parts of Northwest and adjoining Westcentral India during next 2-3 days.
- ✤ The line of withdrawal of Southwest Monsoon continues to pass through 28.3°N/72.0°E, Nokhra, Jodhpur, Barmer and 25.7°N/70.3°E.
- ✤ Western Disturbance as a trough in westerlies in mid-tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 65°E to the north of Lat. 30°N.
- The cyclonic circulation over Gangetic West Bengal & neighbourhood at 1.5 km above mean sea level persists.
- The cyclonic circulation over south Chhattisgarh & neighbourhood extending upto 3.1 km above mean sea level persists.
- The trough from north Coastal Karnataka to the cyclonic circulation over south Chhattisgarh across North Interior Karnataka, Telangana & Vidarbha at 1.5 km above mean sea level persists.
- The cyclonic circulation over North Interior Karnataka & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- The cyclonic circulation over Southwest Bay of Bengal off Tamil Nadu coast between 4.5 & 5.8 km above mean sea level persists.
- A cyclonic circulation is likely to emerge over Eastcentral Bay of Bengal & adjoining north Andaman Sea off Myanmar coast during next 24 hours. Under its influence, a low pressure area is likely to form over Eastcentral Bay of Bengal off Myanmar coast during subsequent 24 hours. Thereafter, it is likely to move northwestwards with possibility of gradual intensification.

## Weather Forecast for next 5 days (Upto 0830 hours IST of 03rd October, 2023)

- Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- No significant change in maximum temperatures likely over most parts of country during next 5 days.

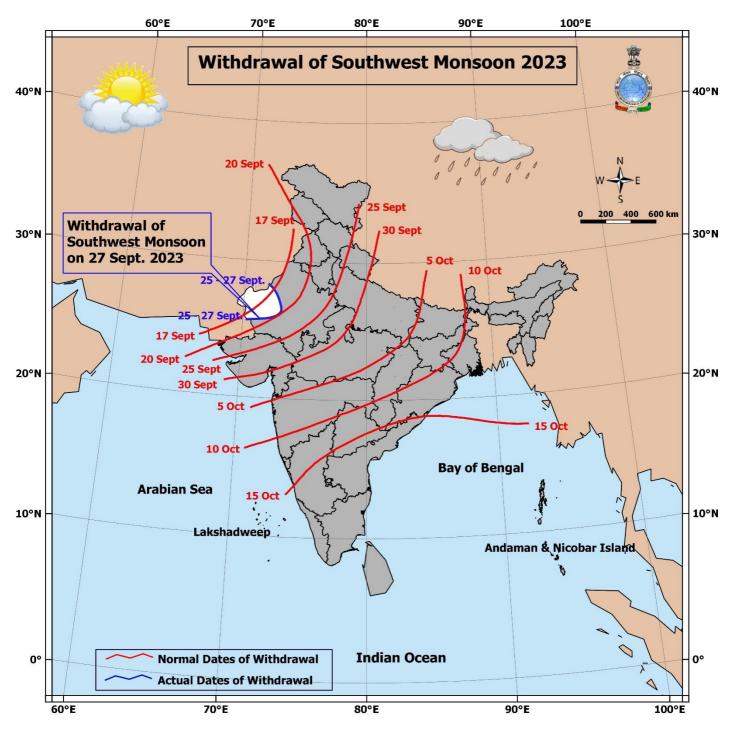
## Weather Outlook for subsequent 2 days

- Fairly widespread to widespread light/moderate rainfall likely over parts of east & adjoining central and northeast India.
- Dry weather likely to prevail over rest parts of the country except isolated rainfall likely over south peninsular India.

National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



\* Red color warning does not mean "Red Alert" Red color warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For more details kindly visit https://mausam.imd.gov.in or contact : 011-2434-4599 (Service to the Nation since 1875)



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T Days Rainfall Percent           Sep         28+ Sep         29+ Sep         30+ Sep         01+ Sep         02+ Sep         Sep         Sep         Sep         Sep         WS         WS         WS         WS           3         ASSAM & MECHAL PRADESH         SCI         SCI <td< th=""><th colspan="12">Table-1</th></td<>	Table-1											
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35     KERALA & MAHE     WS     WS     WS     WS     FWS	33	NORTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	SCT	SCT	SCT			
	34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	SCT	SCT	SCT			
36 LAKSHADWEEP WS WS WS FWS FWS	35	KERALA & MAHE	WS	WS	WS	WS	WS	FWS	FWS			
	36	LAKSHADWEEP	WS	WS	WS	WS	WS	FWS	FWS			

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

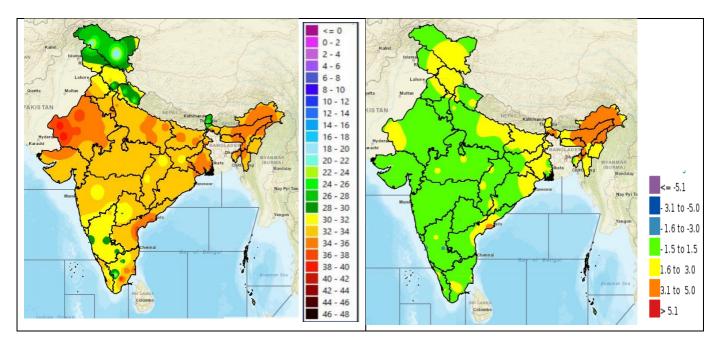
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For more details kindly visit https://mausam.imd.gov.in or contact : 011-2434-4599 (Service to the Nation since 1875)



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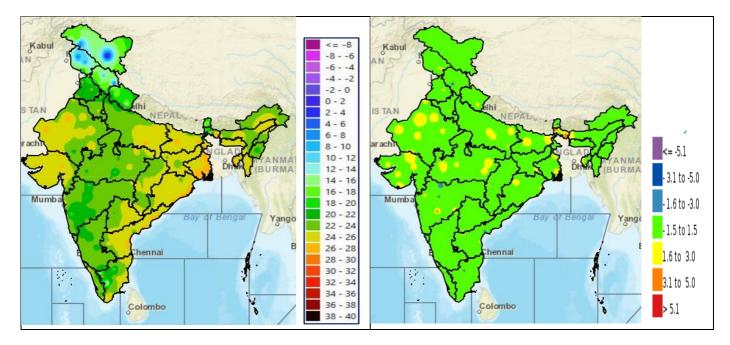
Fig. 1: Maximum Temperatures Dated 27.09.2023

Fig. 2: Departure of Maximum Temp. Dated 27.09.2023



## Fig. 3: Minimum Temperatures Dated 27.09.2023

### Fig. 4: Departure of Minimum Temp. Dated 27.09.2023

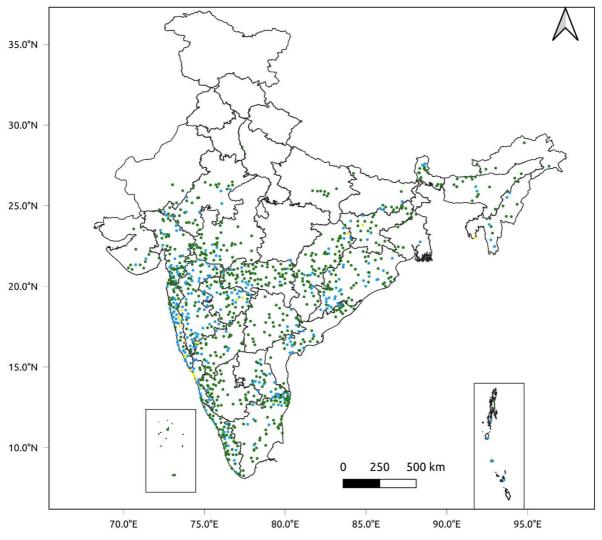




## Fig. 5: Accumulated Rainfall (mm) during past 24 hours

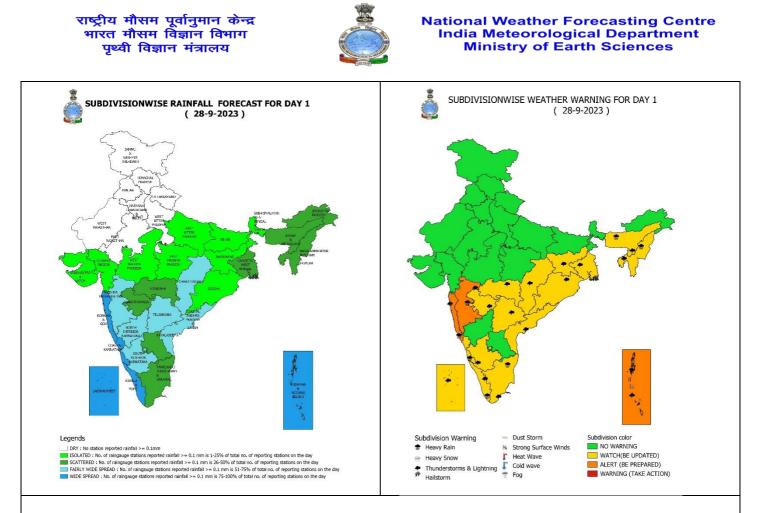


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 26-9-2023 to 0830 IST of 27-9-2023



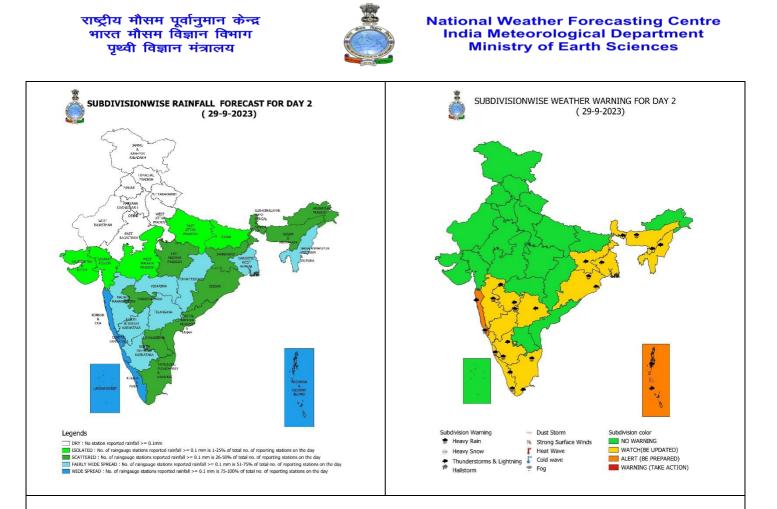
# Legends

- Very Light to Light Rainfall (0.1 15.5 mm)
- Moderate Rainfall (15.6 64.4 mm)
- Heavy Rainfall (64.5 115.5 mm)
- Very Heavy Rainfall (115.6 204.4 mm)
- Extremely Heavy Rainfall (>=204.5 mm)



## 28 September (Day 1): -

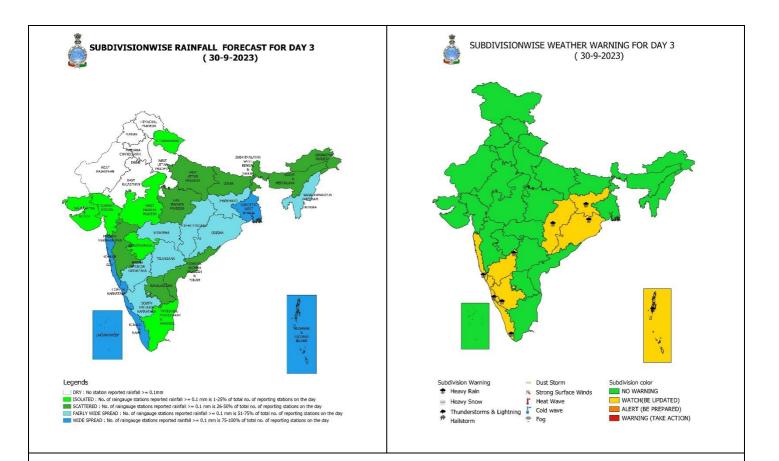
- Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Madhya Maharashtra and Konkan & Goa; Heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Tamil Nadu, Kerala & Mahe.
- Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning likely at isolated places over Gangetic West Bengal, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 40-45 kmph gusting to 55 kmph likely over Eastcentral Arabian Sea, along & off Maharashtra coast, South & adjoining Eastcentral Bay of Bengal and North Andaman Sea. Fishermen are advised not to venture into these areas.



## 29 September (Day 2): -

- Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and Konkan & Goa; Heavy rainfall at isolated places over Odisha, Assam & Meghalaya, Madhya Maharashtra, Karnataka, Tamil Nadu and Kerala & Mahe.
- Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe; with lightning likely at isolated places over West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal.
- Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 45-55 kmph gusting to 55 kmph likely over Eastcentral & Southeast Arabian Sea, along & off Maharashtra & Kerala coasts, South and Eastcentral Bay of Bengal and North Andaman Sea. Fishermen are advised not to venture into these areas.

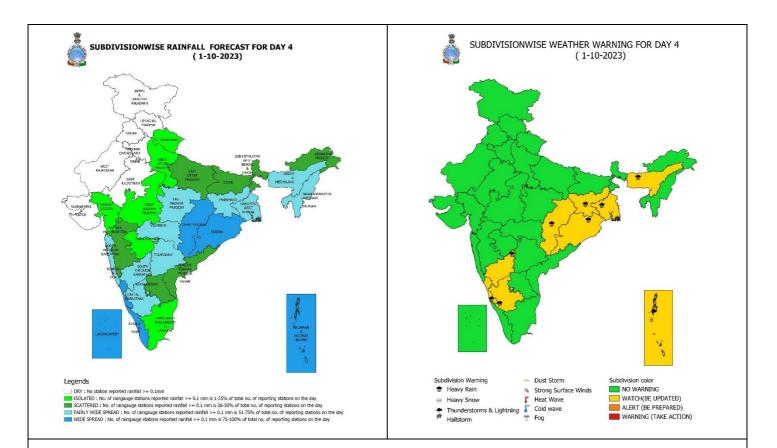




# 30 September (Day 3): -

- Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Konkan & Goa, Karnataka and Kerala & Mahe.
- Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe; with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam.
- Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 45-55 kmph gusting to 55 kmph likely over Eastcentral & Southeast Arabian Sea, along & off Maharashtra & Kerala coasts, South & adjoining Central and Northwest Bay of Bengal and North Andaman Sea. Fishermen are advised not to venture into these areas.



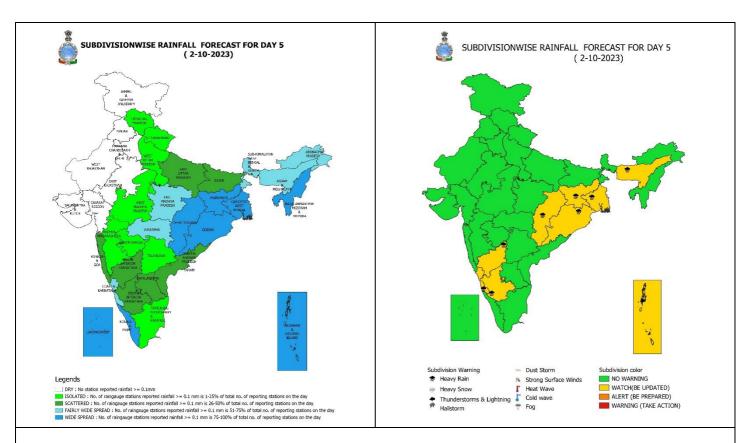


# 01 October (Day 4): -

- Heavy to very heavy rainfall likely at isolated places over Odisha; Heavy rainfall at isolated places over Chhattisgarh, Jharkhand, Assam & Meghalaya and Karnataka.
- Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe; with lightning likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Coastal Andhra Pradesh & Yanam.
- Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 40-45 kmph gusting to 55 kmph likely over South & adjoining Central and Northwest Bay of Bengal and North Andaman Sea. Fishermen are advised not to venture into these areas.



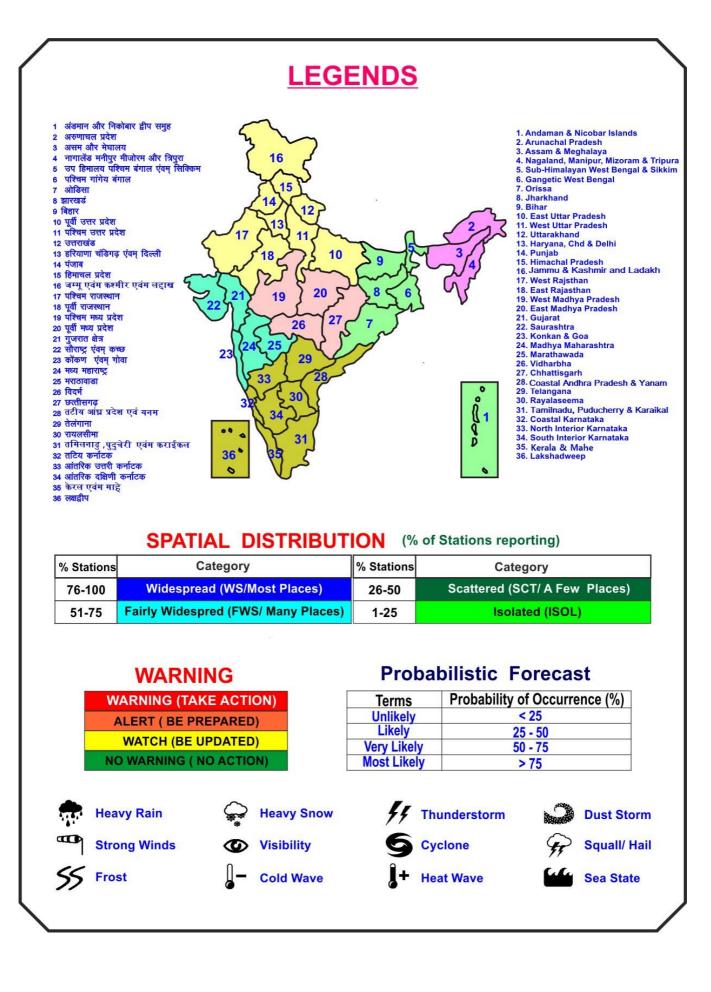
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# 02 October (Day 5): -

- Heavy rainfall likely at isolated places over Odisha, Jharkhand, Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh and Karnataka.
- Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe; with lightning likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Coastal Andhra Pradesh & Yanam.
- Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 40-45 kmph gusting to 55 kmph likely over South & adjoining Central and Northwest Bay of Bengal and North Andaman Sea. Fishermen are advised not to venture into these areas.

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	WARNING Probabilistic Forecast
	WARNING (TAKE ACTION) Terms Probability of Occurrence (%)
	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 * 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 region
	(a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
<b>į</b> +	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C (b). Based on Actual maximum temperature
Heat Wave	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 237°C
î.	When maximum temperature remains 40°C
Varm 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. Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
<b>_</b> _	· · ·
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 $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions
<b>]</b> -	Based on departure Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cold Day	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phonomenon of small droplete supponded in air and the berizontal visibility of the
Ø	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Foq: When the visibility between 500-200 metres
-	Dense Fog: when the visibility between 50- 200 metres
Fog	Very Dense Fog: when the visibility < 50 metres
<i>44</i> 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
))	Air temperature ≤4°C ( over Plains)
Frost	
$\sim$	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
47	Severe: Wind speed 62-61 kmph
Squall	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
C.C.	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
See State	High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre
Sea State	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
6	Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
9	
S Cyclone	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 - 119 knots) Super Cyclone Strom: Wind speed 220 kmph (219 knots)

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