



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 21st September 2026

Time of Issue: 1400 hours IST

Subject: The Well-marked Low Pressure area is very likely to become depression and deep depression during the next 48 hours over North west Bay of Bengal. Under its influence isolated extremely heavy rainfall likely over Odisha and Chhattisgarh on 24th; Coastal Andhra Pradesh & Yanam during 23rd-24th September, 2026.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 21st September, 2026:

- ❖ **Extremely Heavy rainfall (>20 cm)** has been recorded at isolated places over Tamil Nadu
- ❖ **Very Heavy rainfall (12-20 cm)** has been recorded over Kerala.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded over Chhattisgarh, Saurashtra, North Interior Karnataka, Coastal Andhra Pradesh, Rayalaseema, Telangana, Meghalaya

Withdrawal of southwest Monsoon:

- ❖ The Southwest monsoon has further withdrawn from some more parts of Rajasthan, some parts of Haryana and Punjab today, the 21st September, 2026.
- ❖ **Conditions are favourable** for further withdrawal from remaining parts of Punjab, Haryana-Chandigarh-Delhi, some more parts of Rajasthan and some parts of Saurashtra & Kutch, Jammu & Kashmir, Himachal Pradesh, Uttarakhand and West Uttar Pradesh during next 2-3 days.

Weather Systems, Forecast and Warnings (Annexure II & III):

- ❖ Yesterday's **Well-marked Low Pressure** area over Eastcentral & adjoining Westcentral Bay of Bengal moved west-northwestwards and lay over westcentral & adjoining eastcentral Bay of Bengal at 0830 hrs IST of today, the 21st September, 2026. The associated cyclonic circulation extends upto 7.6 km above mean sea level. It is very likely to move west-northwestwards and intensify into a depression over Westcentral Bay of Bengal during next 24 hrs and into a deep depression over Westcentral & adjoining Northwest Bay of Bengal during subsequent 24 hrs. Continuing to move west-northwestwards it is very likely to reach near north Andhra Pradesh - South Odisha coasts around morning of 23rd September 2026.
- ❖ The **North-South trough** runs from North Bay of Bengal to the centre of the cyclonic circulation associated with the **Well-marked Low Pressure** area and extends in lower tropospheric level.
- ❖ A **trough** runs from the centre of the cyclonic circulation associated with the **Well-marked Low Pressure** area to north Andaman sea in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over central Tamil Nadu & neighbourhood between lower and middle tropospheric levels.
- ❖ A trough runs from southeast Arabian sea to the cyclonic circulation associated with the **Well-marked Low Pressure** area in middle tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over Eastcentral & adjoining Northeast Arabian Sea between lower and middle tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over southwest Uttar Pradesh & neighbourhood in middle tropospheric level.
- ❖ A fresh **western Disturbance** as a cyclonic circulation lies over Jammu and neighbourhood in lower tropospheric level.

Under the influence of above systems, the following weather is likely:

Northwest India:

- ❖ **Isolated to Scattered** rainfall likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 24th-27th September; Uttarakhand during 21st-25th September.
- ❖ **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 26th-27th September; West Uttar Pradesh during 24th-27th September; East Uttar Pradesh during 23rd-24th September and on 27th September; East Rajasthan during 21st-22nd September and during 25th-27th September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Uttarakhand during 26th-27th September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over East Uttar Pradesh during 25th-26th September.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over West Uttar Pradesh during 25th-27th September; East Uttar Pradesh during 24th-27th September.
- ❖ Isolated **thunderstorm & lightning** likely over Uttarakhand during 25th-27th September.
- ❖ Isolated **heavy rainfall** likely over West Uttar Pradesh during 26th-27th September; East Uttar Pradesh during 25th-27th September with isolated **very heavy rainfall** also likely over Uttarakhand during 26th-27th September.

Central India:

- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 21st-27th September; East Madhya Pradesh during 21st-22nd September; Vidarbha on 21st September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over East Madhya Pradesh during 23rd-27th September; Vidarbha during 22nd-27th September; Chhattisgarh during 21st-27th September.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over West Madhya Pradesh during 23rd-24th September; Chhattisgarh and Vidarbha on 24th September.
- ❖ Isolated **thunderstorm & lightning** likely over West Madhya Pradesh during 21st-22nd September and during 25th-27th September.
- ❖ Isolated **heavy rainfall** likely over West Madhya Pradesh on 24th September; East Madhya Pradesh during 23rd-24th September and on 27th September; Vidarbha during 23rd-26th September; Chhattisgarh during 21st-22nd September and on 27th September with isolated **very heavy rainfall** also likely over East Madhya Pradesh and West Madhya Pradesh during 25th-26th September; Chhattisgarh on 23rd September and during 25th-26th September.
- ❖ Isolated **extremely heavy rainfall** likely over Chhattisgarh on 24th September.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Chhattisgarh and Vidarbha on 23rd September.

East India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands, Jharkhand and Odisha during 21st-27th September; Sub-Himalayan West Bengal & Sikkim during 23rd-27th September; Gangetic West Bengal during 22nd-27th September; Bihar during 24th-27th September.
- ❖ **Isolated to Scattered** rainfall likely over Sub-Himalayan West Bengal & Sikkim during 21st-22nd September; Gangetic West Bengal on 21st September; Bihar during 21st-23rd September.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 21st-27th September; Gangetic West Bengal during 22nd-25th September; Jharkhand during 23rd-25th September; Bihar during 23rd-24th September; Odisha during 21st-22nd September and on 25th September, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 21st-25th September; Gangetic West Bengal on 21st September; Jharkhand during 21st-22nd September and on 26th September; Bihar during 25th-27th September.
- ❖ Isolated **heavy rainfall** likely over Andaman & Nicobar Islands on 21st September; Sub-Himalayan West Bengal & Sikkim during 23rd-26th September; Gangetic West Bengal during 21st-23rd September and on 25th September; Jharkhand during 21st-23rd September and during 25th-26th September; Bihar on 23rd September and during 26th-27th September; Odisha on 21st September and on 26th September with isolated **very heavy rainfall** also likely over Gangetic West Bengal and Jharkhand on 24th September; Bihar during 24th-25th September; Odisha during 22nd-23rd September and on 25th September.
- ❖ Isolated **extremely heavy rainfall** likely over Odisha on 24th September.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Odisha during 23rd-24th September.
- ❖ **Moderate to severe lightning activity** likely over Jharkhand on 21st & 22nd and Odisha and Gangetic West Bengal during 21st September.

Northeast India:

- ❖ **Isolated to Scattered** rainfall likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 21st-27th September; Assam & Meghalaya during 21st-22nd September and during 26th-27th September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Assam & Meghalaya during 23rd-25th September.
- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 21st-23rd September.
- ❖ Isolated **heavy rainfall** likely over Assam & Meghalaya during 22nd-23rd September.

West India:

- ❖ **Isolated to Scattered** rainfall likely over Konkan & Goa on 21st September and during 25th-27th September; Madhya Maharashtra on 21st September and during 24th-27th September; Marathawada during 21st-22nd September and during 24th-27th September; Gujarat Region during 21st-27th September; Saurashtra & Kutch during 21st-24th September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa during 22nd-24th September; Madhya Maharashtra during 22nd-23rd September; Marathawada on 23rd September.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Konkan & Goa and Madhya Maharashtra during 21st-24th September; Marathawada during 21st-23rd September; Gujarat Region and Saurashtra & Kutch on 21st September, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Gujarat Region and Saurashtra & Kutch on 22nd September.
- ❖ Isolated **heavy rainfall** likely over Konkan & Goa during 22nd-23rd September; Madhya Maharashtra during 21st-23rd September; Marathawada on 23rd September.

South Peninsular India:

- ❖ **Isolated to Scattered** rainfall likely over Rayalaseema and Tamil Nadu, Puducherry & Karaikal during 21st-27th September; Coastal Karnataka, Kerala & Mahe and North Interior Karnataka during 26th-27th September; Lakshadweep and Telangana on 27th September; South Interior Karnataka during 25th-27th September; Coastal Andhra Pradesh & Yanam on 21st September and during 26th-27th September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Coastal Karnataka, Kerala & Mahe and North Interior Karnataka during 21st-25th September; Lakshadweep and Telangana during 21st-26th September; South Interior Karnataka during 21st-24th September; Coastal Andhra Pradesh & Yanam during 22nd-25th September.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 21st-23rd September; North Interior Karnataka on 23rd September; Coastal Andhra Pradesh & Yanam and Rayalaseema during 21st-22nd September; Telangana during 21st-22nd September and during 26th-27th September, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Kerala & Mahe and Lakshadweep during 21st-22nd September; Coastal Karnataka during 22nd-23rd September; North Interior Karnataka during 21st-22nd September and on 24th September; South Interior Karnataka during 21st-24th September; Rayalaseema during 23rd-25th September.
- ❖ Isolated **thunderstorm & lightning** likely over Coastal Karnataka on 21st September.
- ❖ Isolated **heavy rainfall** likely over Lakshadweep, Rayalaseema and Tamil Nadu, Puducherry & Karaikal on 21st September; Kerala & Mahe on 21st September and during 23rd-25th September; Coastal Karnataka on 22nd September and on 25th September; North Interior Karnataka during 21st-22nd September and on 24th September; South Interior Karnataka during 21st-22nd September and on 25th September; Coastal Andhra Pradesh & Yanam on 21st September and on 25th September; Telangana during 21st-22nd September and on 26th September with isolated **very heavy rainfall** also likely over Coastal Karnataka and North Interior Karnataka on 23rd September; South Interior Karnataka during 23rd-24th September; Coastal Andhra Pradesh & Yanam on 22nd September; Telangana during 23rd-25th September.
- ❖ Isolated **extremely heavy rainfall** likely over Coastal Karnataka on 24th September; Coastal Andhra Pradesh & Yanam during 23rd-24th September.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Coastal Andhra Pradesh & Yanam and Telangana during 23rd-25th September.
- ❖ Strong Surface Winds likely over Coastal Andhra Pradesh & Yanam during 23rd-25th September; Rayalaseema during 21st-25th September; Telangana during 21st-27th September.

Wind warning:

- ❖ Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over Eastcentral and adjoining Andaman Sea today, the 21st September.
- ❖ It is very likely to increase reaching 50-60 kmph gusting to 70 kmph over Central Bay of Bengal from 22nd September evening.
- ❖ Increasing further is likely to become 55-65 kmph gusting to 75 kmph over Westcentral and adjoining Northwest Bay of Bengal from 23rd September to 24th September evening.

- ❖ Squally wind speed reaching 45-55 kmph gusting to 65 kmph adjoining areas of North and South Bay of Bengal on 22nd September and becoming 50-60 kmph gusting to 70 kmph on 23rd September.
- ❖ Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph which likely to commence from 22nd morning along and off south Odisha-north Andhra Pradesh coasts. It is likely to increase gradually becoming squally wind with speed reaching 55-65 kmph gusting to 65 kmph along and off south Odisha-north Andhra Pradesh coasts from early morning of 23rd till evening of 24th September. It is likely to decrease gradually thereafter.
- ❖ Squally wind with speed reaching 45-55 kmph gusting to 65 kmph is likely along & off West Bengal and south Andhra Pradesh coasts from 23rd to 24th September.

Sea condition:

- ❖ Rough sea condition is prevailing over north Andaman Sea on 21st September.
- ❖ Rough to very rough sea condition likely over eastcentral Bay of Bengal on 21st and 22nd over westcentral Bay of Bengal from 21st to 24th September.
- ❖ Rough to very rough sea condition is likely over Northwest Bay of Bengal from 22nd to 24th September.
- ❖ Rough to very rough sea condition is likely over adjoining areas of southwest Bay of Bengal on 23rd and 24th September.
- ❖ Rough to very rough sea condition is likely along & off north Andhra Pradesh-Odisha-West Bengal coasts from evening of 22nd till evening 24th September.

Fishermen warnings:

Fishermen are advised not to venture into

- ❖ Andaman Sea on 21st September.
- ❖ Eastcentral and adjoining northeast Bay of Bengal from today, the 21st September till 22nd September.
- ❖ Westcentral & adjoining northwest & southwest Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts from 22nd till 24th September.

Weather conditions and forecast over Delhi/NCR during next 4 days (Annexure IV)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermenwarning.php>

Highest rainfall recorded (≥ 7 cm) (from 0830 hours IST of yesterday to 0830 hours IST of today over different Meteorological Subdivision):

- ❖ **Tamil Nadu:** Coimbatore 21
- ❖ **Kerala:** Udumbannoor 13
- ❖ **Saurashtra & Kutch:** Mahuva 11
- ❖ **Rayalaseema:** Sri Sathyasai District(Amarapuram) 11
- ❖ **North Interior Karnataka:** Nargund 9
- ❖ **Coastal Andhra Pradesh & Yanam:** Parvathipuram Manyam 9
- ❖ **Telangana:** Wargal 9
- ❖ **Meghalaya:** Mawkyrwat 8
- ❖ **Chhattisgarh:** Sukma 7

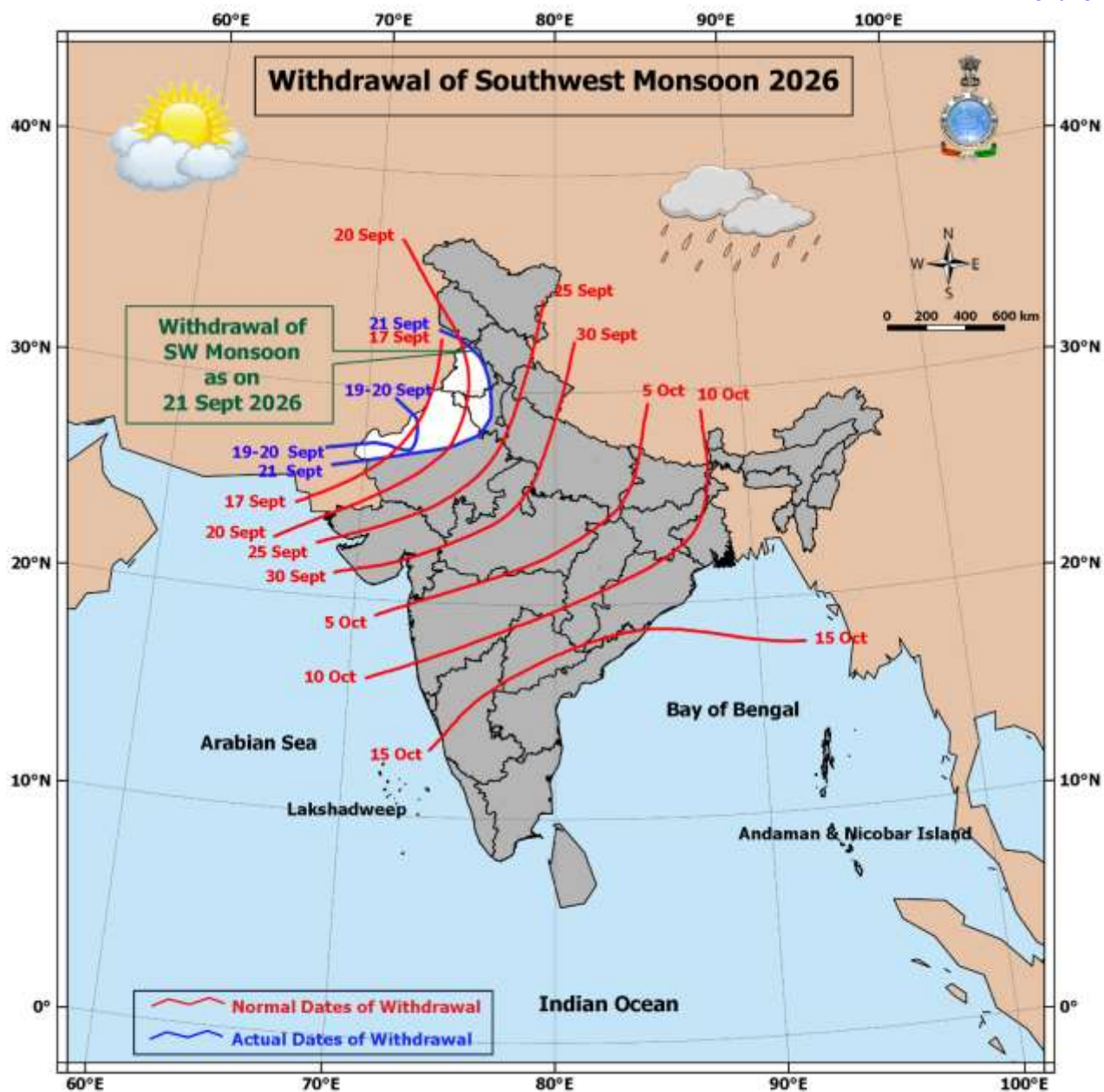
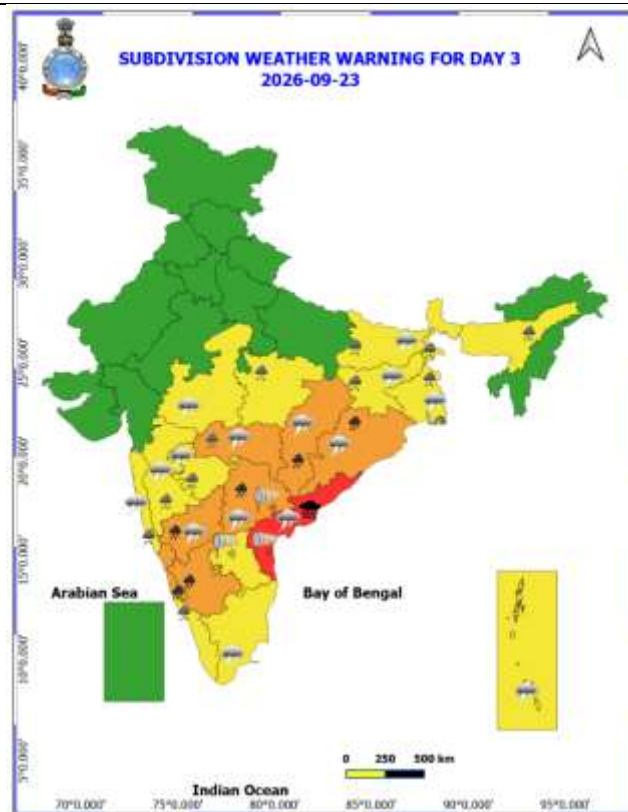
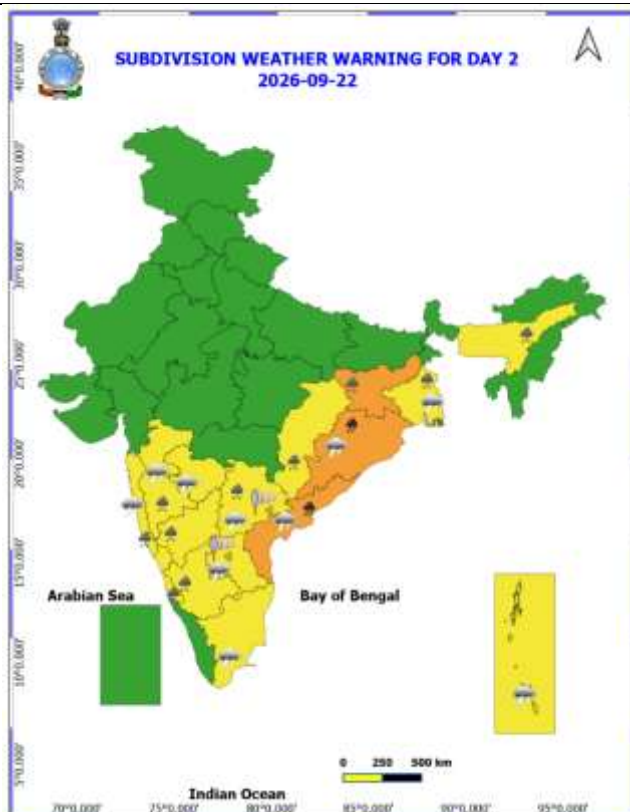
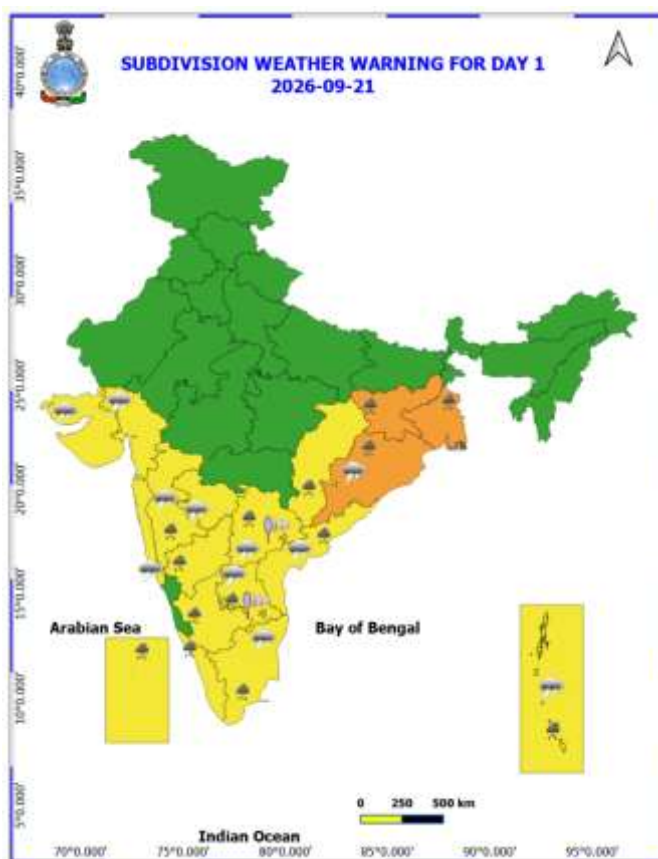
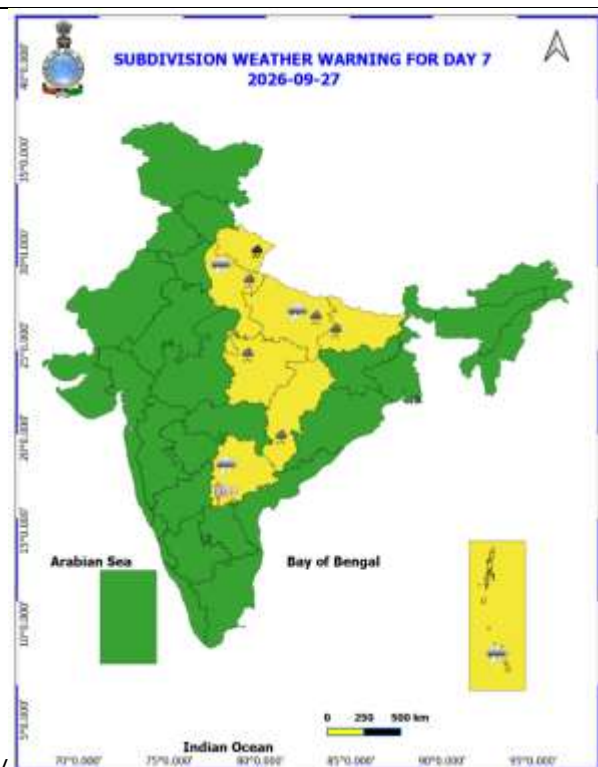
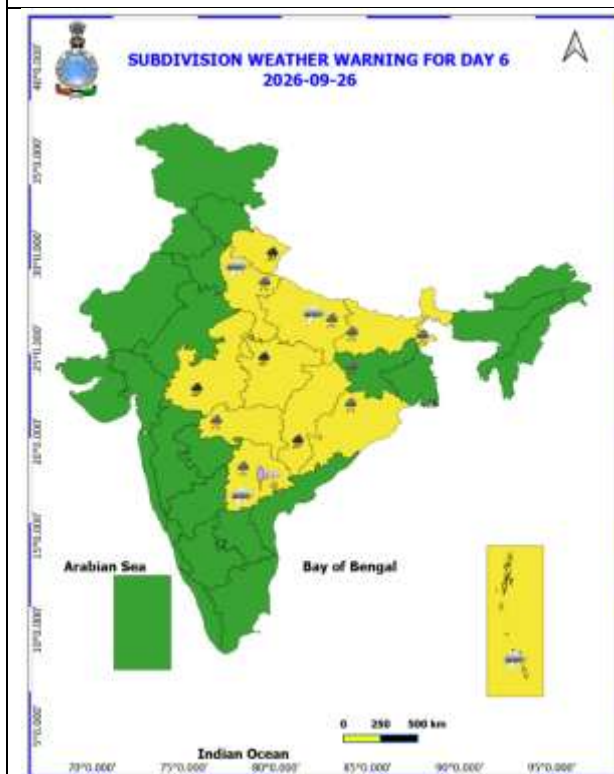
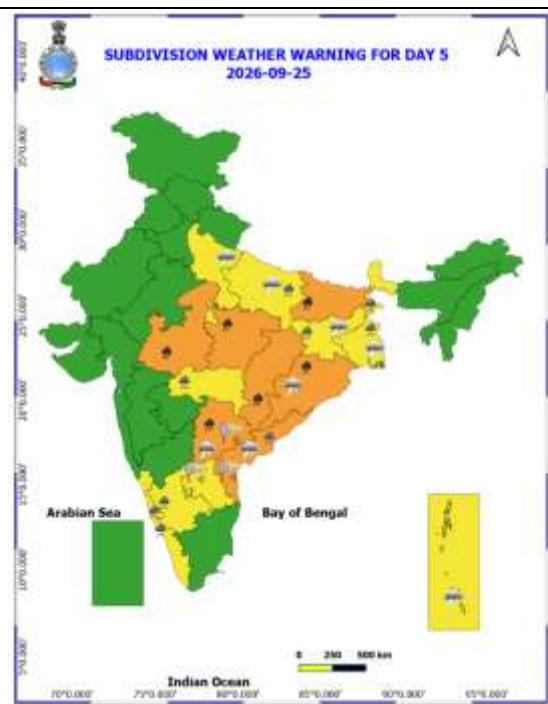
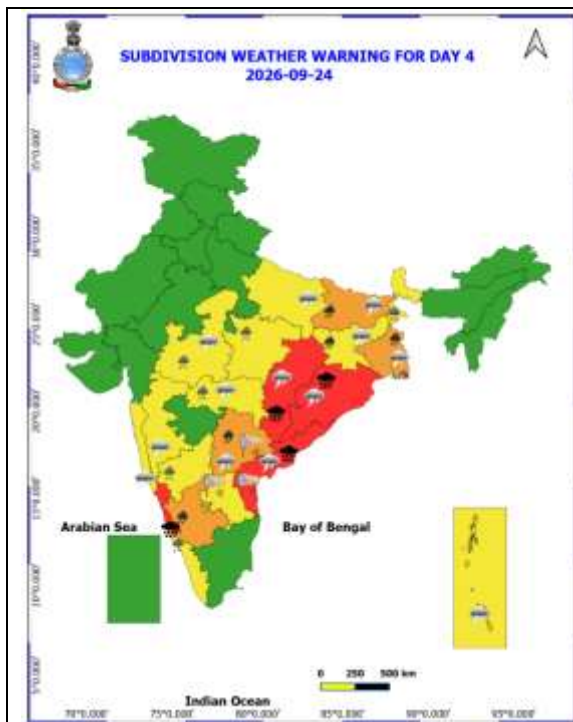


Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	21- Sep	22- Sep	23- Sep	24- Sep	25- Sep	26- Sep	27- Sep
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	SCT	SCT	SCT	SCT	SCT	SCT	SCT
3	ASSAM & MEHGHALAYA	SCT	SCT	FWS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

As the lead period increases forecast accuracy decrease.





Action may be taken based on ORANGE AND REDCOLOUR warnings.

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

Detailed district-wise Multi-Hazard weather warning for next five days available at <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 21st -24th September 2026**Past Weather:**

There has been no large change in maximum and in minimum temperatures over Delhi during the past 24 hours. The maximum temperatures were around 34-35°C and the minimum temperatures are in the range 21-25°C respectively during past 24 hours over Delhi. The minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at isolated places and normal (1.5°C to 1.5°C) over remaining parts of Delhi. The maximum temperatures were above normal (1.6°C to 3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over the other parts of Delhi. Mainly clear sky with surface wind speed 15 kmph from the northeast direction prevailed over Delhi during past 24 hours. Mainly clear sky with surface wind speeds up to 12 kmph from the northeast direction likely to prevail during forenoon over the region today.

Weather Forecast:

21.09.2026: Mainly clear sky. The maximum temperatures over Delhi are likely to be in the range of 33-35°C. The maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the north direction with surface wind speed reaching up to 15 kmph during the afternoon. The surface wind speed will decrease becoming up to 12 kmph from the northeast direction during evening and night hours.

22.09.2026: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34°C to 36°C and 23°C to 25°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 15 kmph during the morning hours. The surface wind speed will increase becoming up to 18 kmph from the northeast direction during afternoon. The surface wind speed will decrease becoming up to 12 kmph from the northeast direction during evening and night hours.

23.09.2026: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34°C to 36°C and 23°C to 25°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the southwest direction with wind speed reaching up to 10 kmph during the morning hours. The surface wind speed will increase becoming up to 15 kmph from the southeast direction during afternoon. The surface wind speed will increase becoming up to 20 kmph from the southeast direction during evening and night hours.

24.09.2026: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 33°C to 35°C and 23°C to 25°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed reaching up to 20 kmph during the morning hours. The surface wind speed will increase becoming up to 22 kmph from the southeast direction during afternoon. The surface wind speed will decrease becoming up to 20 kmph from the southeast direction during evening and night hours.

Impact Expected and Action Suggested due to very heavy rainfall:

- ❖ **Isolated extremely heavy rainfall likely over Coastal Karnataka, Chhattisgarh and Odisha on 24th; Coastal Andhra Pradesh & Yanam during 23rd-24th September.**
- ❖ **Moderate to severe lightning activity likely over Jharkhand on 21st & 22nd and Odisha and Gangetic West Bengal during 21st September.**

Impact expected:

- ❖ Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- ❖ Partial damage to vulnerable structures due to strong winds and rain.
- ❖ Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- ❖ Loose objects may fly.
- ❖ Small ships, trawlers and boats may be affected.
- ❖ Road and rail traffic may be affected due to heavy rain and squally winds.
- ❖ There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Helicopter services may get affected.

Action suggested:

- ❖ People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- ❖ Take safe shelters; do not take shelter under trees, as there could be lightning.
- ❖ In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- ❖ Tourism and recreational activities to be regulated.
- ❖ Onshore and offshore activities to be judiciously regulated.
- ❖ Helicopter services to be regulated.

Agromet advisories for likely impact of Heavy Rainfall

- In **Andaman & Nicobar**, provide mechanical support to banana & papaya plantations and staking to young plants and vegetables. Provide adequate drainage in standing crop fields to avoid waterlogging.
- In **Assam & Meghalaya**, drain excess water from maize, black gram, green gram and sesame fields and keep drainage channels clear. Maintain suitable water levels in rice, support papaya, banana and weak-stemmed crops, and harvest pumpkins and bottle gourd before the rains wherever possible.
- In **Jharkhand**, postpone irrigation in standing crops, and apply fertilizers and pesticides only when the sky is clear.
- In **Gangetic West Bengal**, drain excess water. provide mechanical support to banana & papaya plantations and staking to young plants and vegetables. Undertake propping in sugarcane.
- In **Chhattisgarh**, postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging.
- In **Odisha**, make immediate arrangements to drain excess water from rice, maize, millets, ginger, turmeric, vegetables, pulses and orchards. Protect vegetable nurseries, provide staking to vegetables and undertake earthing-up around newly planted banana saplings; postpone field operations until rainfall ceases and soil conditions become suitable.
- In **Telangana, Coastal Andhra Pradesh and Rayalseema** provide mechanical support to banana & papaya plantations and staking to young plants and vegetables. Undertake propping in sugarcane. Postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging.
- In **Konkan (Maharashtra) and Goa**, make arrangements to drain out excess water for standing crops, vegetables and orchards. Maintain 5-10 cm water level in rice (Panicle initiation/Flowering stage) fields.
- In **Madhya Maharashtra**, postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging.
- In **Karnataka**, Protect harvested produce by keeping it in safe, covered storage, and secure farm structures and equipment. Postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging.

- In **Tamil Nadu**, drain excess water from standing crop fields and avoid fertilizer and pesticide applications during rainfall, particularly where heavy rainfall was received yesterday. Provide support to banana plants and prop sugarcane against lodging.
- In **Kerala**, ensure effective drainage in banana, black pepper, coconut, ginger and turmeric fields following the recent rainfall and provide strong support to banana plants and trellis-grown crops. Postpone all field operations until rainfall ceases and soil conditions become suitable.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- 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.

Livestock / Poultry / Fisheries

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.

Legends & abbreviations:

Heavy Rain: 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.

Obsy: Observatory; **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.

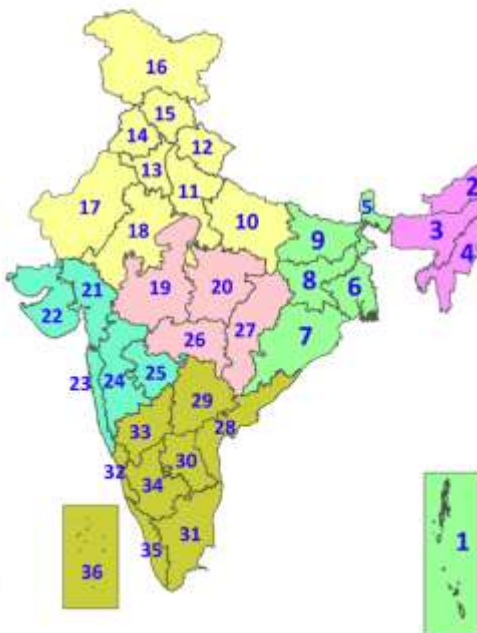
Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

West India: Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (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.

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

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)

- | | | |
|----------------------|----------------------|--------------|
| Fog | Heavy Snow | Cold Wave |
| Heavy Rain | Dust Storm | Cold Day |
| Very Heavy Rain | Heat Wave | Ground Frost |
| Extremely Heavy Rain | Warm Night | |
| Thunder & Lightning | Hot Day | |
| Hailstorm | Hot & Humid | |
| Dust Raising Winds | Strong Surface Winds | |

COLOUR CODED WARNING

- No Warning (No Action)
- Watch (Be Aware)
- Alert (Be Prepared To Take Action)
- Warning (Take Action)

Probabilistic Forecast

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

DEFINITION/CRITERIA

Rain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm * Extremely Heavy: > 204.4 mm/cm *
Heat Wave	When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ 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 $\geq 6.5^{\circ}\text{C}$ (b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$. Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$. (c). Criteria for heat wave for coastal stations When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$
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 $> 6.4^{\circ}\text{C}$.
Cold Wave	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ 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 $\leq -6.5^{\circ}\text{C}$ (b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$ Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$ (c) For Coastal Stations When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$
Cold Day	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ 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 $\leq -6.5^{\circ}\text{C}$
Fog	Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$ Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres
Thunderstorm	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.
Frost	Ice deposits on ground Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)
Squall	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
Sea State	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 Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre
Cyclone	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 118-185 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 186-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed > 220 kmph (> 119 knots)

* Red colour warning does not mean "Red Alert", Red colour 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

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