Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 21st September, 2025
Time of Issue: 1330 hours IST

Subject: (i) A low pressure area is likely to form over north Bay of Bengal during next 24 hours.
(ii) Another low pressure area is likely to form over eastcentral & adjoining north Bay of Bengal around 25th September. Moving west-northwestwards, it is very likely to become a depression over northwest and adjoining westcentral Bay of Bengal off South Odisha- North Andhra Pradesh coasts around 26th September. It is very likely to cross South Odisha-North Andhra Pradesh coasts around 27th September.
(iii) Isolated Heavy rainfall likely over Odisha during 23rd-27th; Jharkhand, Chhattisgarh, Vidarbha during 24th -27th and Coastal Andhra Pradesh & Yanam on 21st and during 24th -27th September, 2025.
(iv) Isolated heavy rainfall likely to continue over Northeast India during next 3-4 days.

Realised weather during past 24 hours till 0830 hours IST of today, the 21st September, 2025:

- **Very heavy rainfall (12-20 cm)** has been recorded at isolated places over Gujarat Region and Marathawada and Bihar.
- **Heavy rainfall (7-11 cm)** has been recorded at isolated places over East Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Gangetic West Bengal, Telangana, North Interior Karnataka, Konkan & Goa, Odisha and Jharkhand.

For more details of realised weather, kindly refer Annexure I.

Withdrawal of southwest Monsoon:

- The line of withdrawal of southwest monsoon continues to pass through 31°N/74°E, Bhatinda, Fatehabad, Pilani, Ajmer, Deesa, Bhuj and 23°N/68°E.
- Conditions are becoming favourable for further withdrawal of southwest monsoon from some more parts of Gujarat, Rajasthan, Haryana and Punjab; some parts of Himachal Pradesh, Jammu & Kashmir and Uttar Pradesh during next 24 hours. **(Annexure II)**

i. Weather Systems, Forecast and Warnings (refer to Annexure III & IV):

- Yesterday's upper air cyclonic circulation over North Andaman Sea and adjoining Myanmar lay over northeast Bay of Bengal & adjoining Myanmar- south Bangladesh coasts, extending upto middle tropospheric levels. Under its influence a low pressure area is likely to form over north Bay of Bengal during next 24 hours.
- Another low pressure area is likely to form over eastcentral and adjoining north Bay of Bengal around 25th September. Moving west-northwestwards, it is very likely to become a depression over northwest and adjoining westcentral Bay of Bengal off South Odisha- North Andhra Pradesh coasts around 26th September. It is very likely to cross South Odisha-North Andhra Pradesh coasts around 27th September.
- The trough runs from the upper air cyclonic circulation over northeast Bay of Bengal adjoining Myanmar- south Bangladesh coasts to north Tamil Nadu adjoining south Andhra Pradesh coast across westcentral Bay of Bengal in lower and middle tropospheric levels.
- The upper air cyclonic circulation over northeast Bihar & adjoining Sikkim in lower tropospheric levels.
- The upper air cyclonic circulation over northeast Assam & neighbourhood in lower tropospheric levels.
- The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 81°E to the north of Lat. 29°N.

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

East & Central India:

- Light to moderate rain/thunderstorm at most/many places with isolated **heavy rainfall** likely over West Madhya Pradesh on 21st & 22nd, Bihar during 25th-27th; Jharkhand during 24th – 26th; Andaman & Nicobar Islands on 24th & 25th; Gangetic West Bengal on 22nd & 23rd; Chhattisgarh & Vidarbha during 24th-27th; Odisha during 23rd-27th September.
- Thunderstorm & gusty winds (speed reaching 30-40 kmph) very likely over East India during next 5 days.

Northeast India:

- Light/moderate rain/thunderstorm at many/some places with isolated **heavy rainfall** likely over Assam & Meghalaya during 21st-24th and Nagaland, Manipur, Mizoram & Tripura during 21st-23rd and on 27th September.

South Peninsular India:

- Light to moderate rain/thunderstorm at many/some places with isolated **heavy rainfall** likely over Kerala & Mahe on 22nd, 26th & 27th; Rayalaseema on 21st, 26th & 27th; Coastal Karnataka on 26th & 27th; North Interior Karnataka during 21st- 23rd and on 26th & 27th; Telangana on 21st ,22nd, 26th & 27th; and Coastal Andhra Pradesh & Yanam on 21st and during 24th–27th September.
- Strong surface winds (speed reaching 30-40 kmph) very likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during next 5 days.

West India:

- Light to moderate rain/thunderstorm at many/some places with **isolated heavy rainfall** likely over Madhya Maharashtra during next 7 days except on 24th; Konkan & Goa on 22nd & during 25th -27th; Marathawada on 22nd & 23rd and Gujarat Region on 22nd & 23rd September.

Fishermen warnings:

- Squally wind speed reaching 40-50 kmph gusting to 60 kmph with Rough to Very Rough Sea condition is likely to prevail over north and adjoining central Bay of Bengal and along & off Andhra Pradesh -Odisha-West Bengal coasts during 25th - 27th September.

- Fishermen are advised not to venture into north and adjoining central Bay of Bengal and along & off Andhra Pradesh -Odisha-West Bengal coasts during 25th - 27th September.

- **Fishermen out at sea are advised to return to coast by 24th September.**

ii. Weather conditions and forecast over Delhi/NCR during 21st September to 24th September, 2025 (Annexure V)

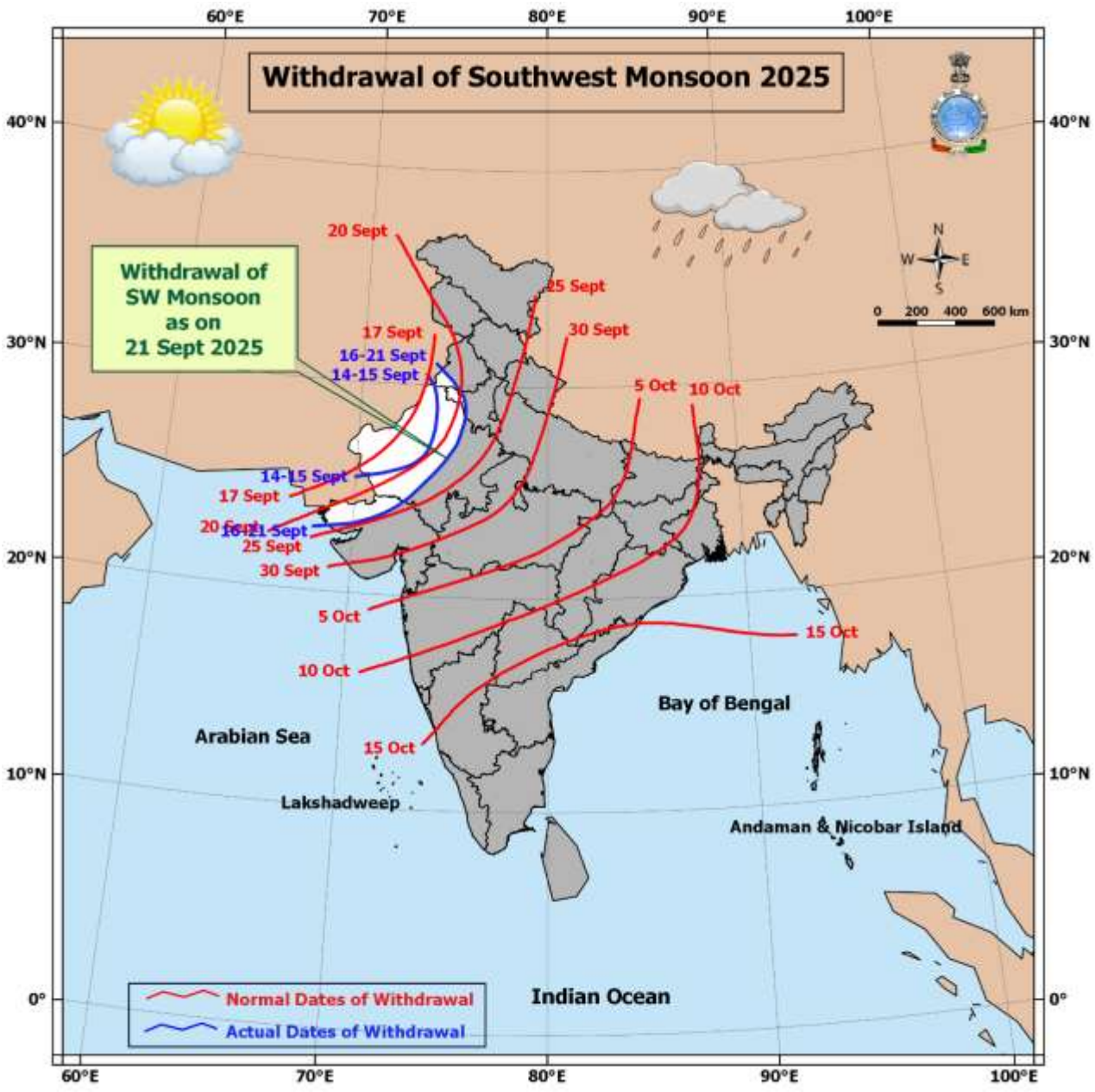
For more details, kindly refer National Weather Bulletin:
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php
For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php
For Fishermen warning refer https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php

ANNEXURE I

Rainfall recorded (in cm) during past 24 hours till 0830 hours IST of today, the 21st September (≥ 7cm):

- **Gujarat Region:** Nandod (dist Narmada) 12, Bodeli (dist Chhota Udepur) 10, Rajpipala (dist Narmada) 10, Halol (dist Panchmahal) 9, Vadodara (dist Vadodara) 8, Jetpur Pavi (dist Chhota Udepur) 7, Jambughoda (dist Panchmahal) 7;
- **Marathawada:** Umarga (dist Dharashiv) 12, Lohara (dist Dharashiv) 7;
- **Bihar:** Parbatta (dist Khagaria) 12, Itarahi (dist Buxar) 7;
- **Telangana:** Kothaguda (dist Mahabubabad) 10, Neredcherla (dist Suryapet) 8, Laxmanchanda (dist Nirmal) 7, Shriramsag.pocha (dist Nirmal) 7, Suryapet (dist Suryapet) 7;
- **East Rajasthan:** Bhopalsagar (Chittorgarh) 9, Mavli (Udaipur) 7, Bari sadri (Chittorgarh) 7, Nimbahera (Chittorgarh) 7;
- **Coastal Andhra Pradesh & Yanam:** Jangamaheswarapuram (dist Palnadu) 9, Tiruvuru (dist Ntr District) 9, Guntur (dist Guntur) 7, Amaravati (dist Guntur) 7, Nandigama (dist Ntr District) 7, Chintalapudi (dist Eluru) 7;
- **West Madhya Pradesh:** Nagda (dist Ujjain), Niwali (dist Barwani) 8 Each; Tirla (dist Dhar), Goharganj (dist Raisen) 7 Each;
- **Gangetic West Bengal:** Canning (dist South 24 Parganas) 8;
- **Odisha:** Suliapada (dist Mayurbhanj) 7, Binjharpur (dist Jajpur) 7;
- **North Interior Karnataka:** Bidar Pto (dist Bidar) 8;
- **Konkan & Goa:** Mhasla (dist Raigad) 7, Mangaon (dist Raigad) 7;
- **Jharkhand:** Palganj (dist Giridih) 7, Nandadih (dist Giridih) 7;

Annexure II

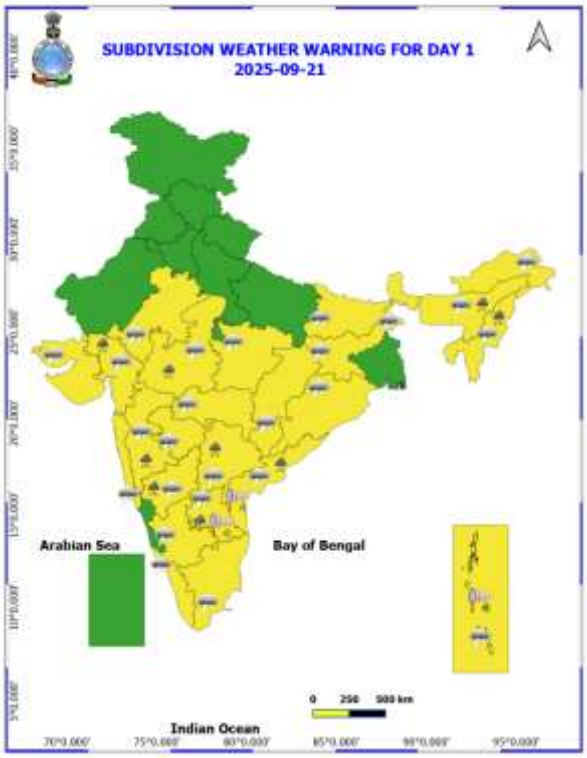

Withdrawal of Southwest Monsoon 2025
Withdrawal of SW Monsoon as on 21 Sept 2025
20 Sept
25 Sept
17 Sept
30 Sept
16-21 Sept
14-15 Sept
5 Oct
10 Oct
15 Oct
Bay of Bengal
Arabian Sea
Lakshadweep
Andaman & Nicobar Island
Indian Ocean
Normal Dates of Withdrawal
Actual Dates of Withdrawal
0 200 400 600 km
60°E
70°E
80°E
90°E
100°E
40°N
30°N
20°N
10°N
0°

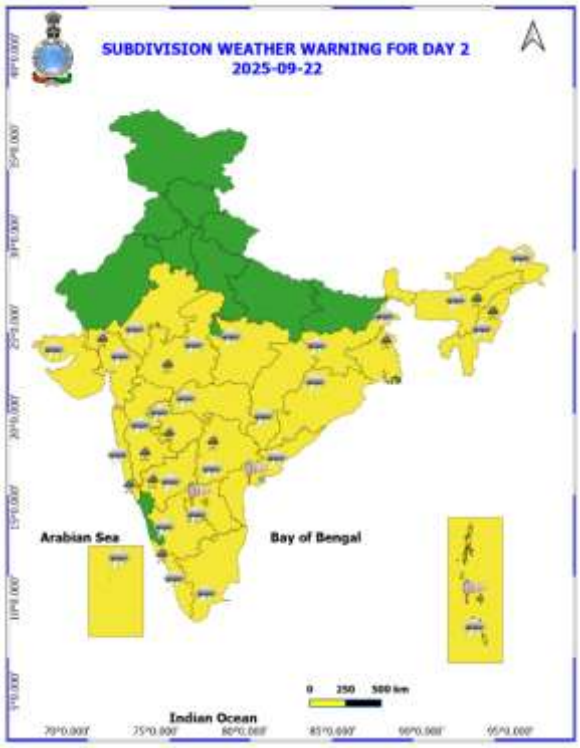
ANNEXURE III

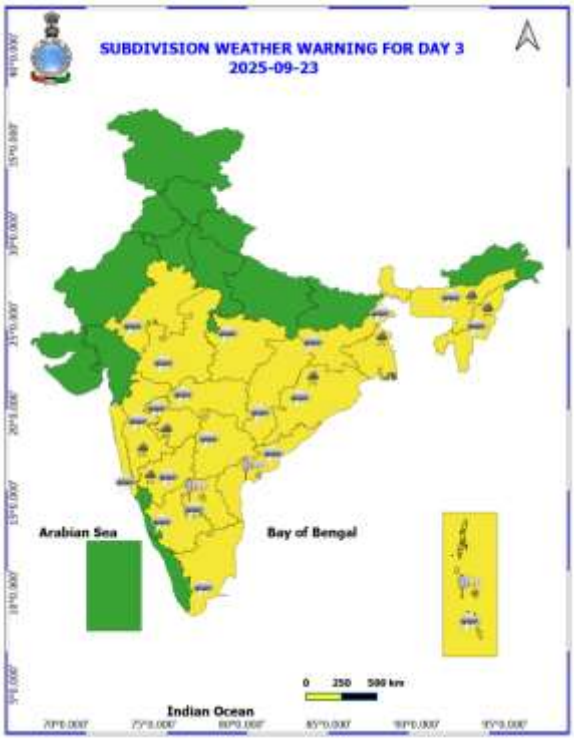
Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	21- Sep	22- Sep	23- Sep	24- Sep	25- Sep	26- Sep	27- Sep
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	FWS	FWS	FWS	FWS	SCT
2	ARUNACHAL PRADESH	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	SCT	SCT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

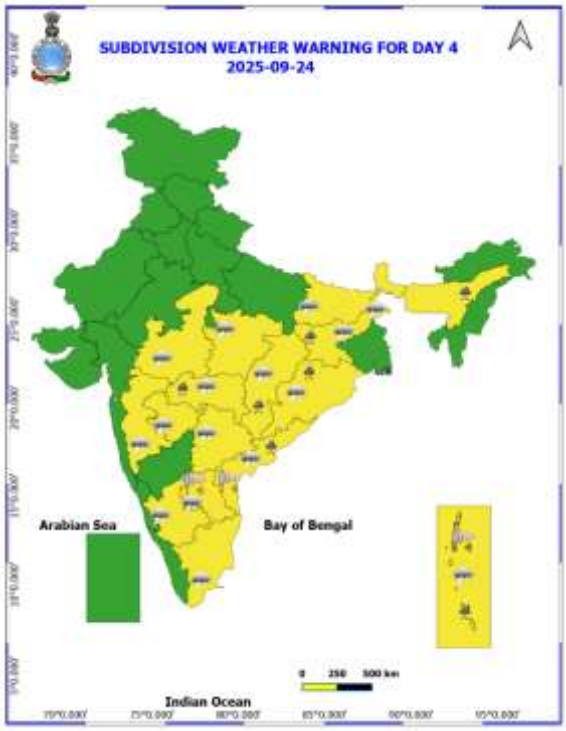
- **As the lead period increases forecast accuracy decrease.**

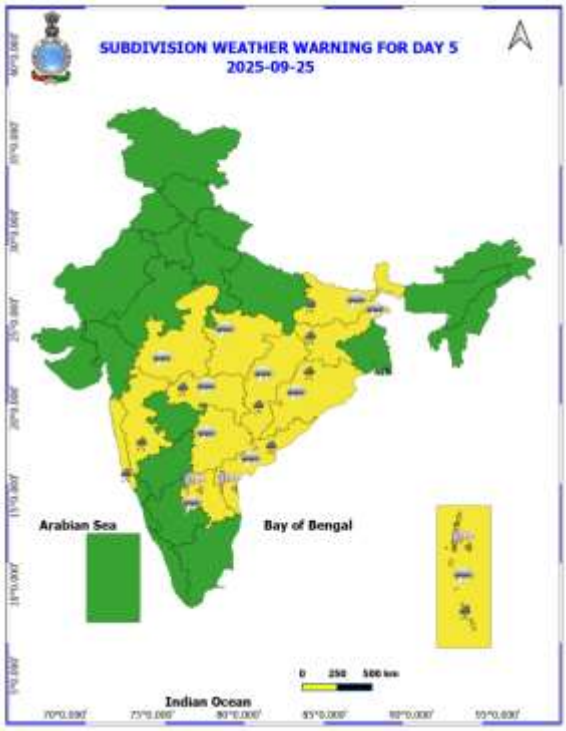
ANNEXURE IV

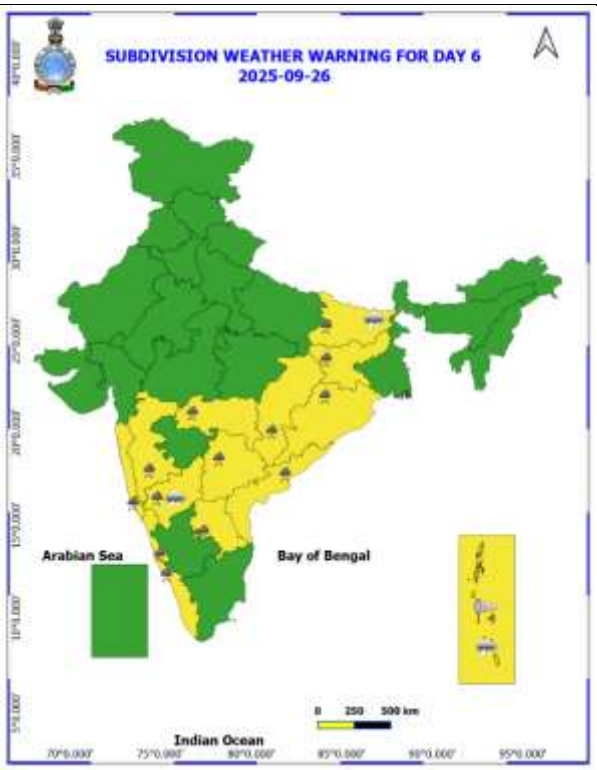

SUBDIVISION WEATHER WARNING FOR DAY 1
2025-09-21
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

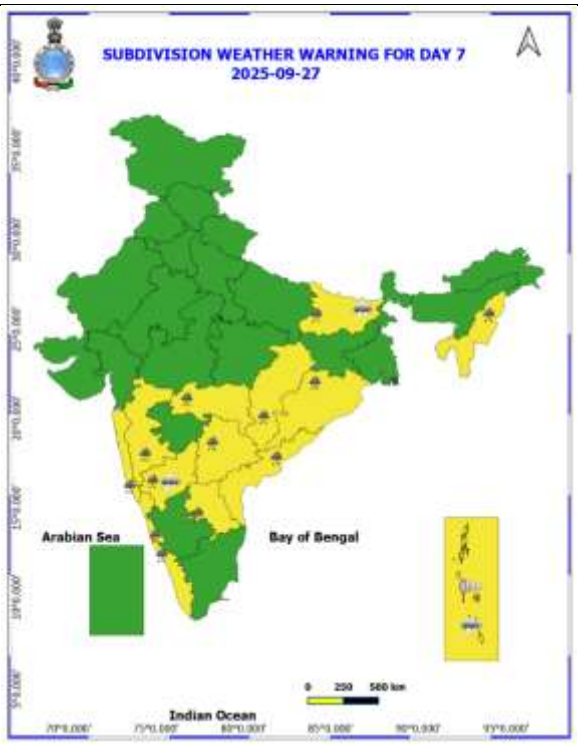

SUBDIVISION WEATHER WARNING FOR DAY 2
2025-09-22
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISION WEATHER WARNING FOR DAY 3
2025-09-23
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km









- **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.**

DetaileddistrictwiseMultiHazardweatherwarningfornextfivedaysavailableat
https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

Annexure V

Weather forecast over Delhi/NCR during 21th to 24th September 2025

Past Weather:

There has been no large change in the minimum and maximum temperatures over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi were around 34 to 35°C and 22 to 24°C respectively. The minimum and maximum temperatures were near normal. Partly cloudy sky conditions with predominant surface wind from the northwest/west direction with wind speeds up to 18 kmph prevailed during the past 24 hours. Mainly clear sky conditions with a wind speed of less than 16 kmph from the west direction prevailed over the region in the forenoon today.

Weather Forecast:

21.09.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C. The maximum temperature will be above normal up to 1 - 2°C. The predominant surface wind will likely to be from the northwest direction with a wind speed of up to 15-20 kmph during afternoon hours. The wind speed will decrease becoming less than 12 kmph from the southwest direction during the evening and night.

22.09.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C and 24 to 26°C respectively. The minimum temperature will be near normal and the maximum temperature will be above normal up to 1 - 2°C. The predominant surface wind will likely to be from the northwest direction with a wind speed of up to 10-15 kmph during morning hours. The wind speed will gradually increase becoming less than 20 kmph from the northwest direction in the afternoon. The wind speed will decrease becoming less than 12 kmph from the southwest direction during the evening and night.

23.09.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 33 to 35°C and 24 to 26°C respectively. The minimum temperature will be near normal and the maximum temperature will be near normal. The predominant surface wind will likely to be from the northwest direction with a wind speed of up to 10-15 kmph during morning hours. The wind speed will gradually increase becoming less than 25 kmph from the northwest direction in the afternoon. The wind speed will decrease becoming less than 15 kmph from the west direction during the evening and night.

24.09.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 33 to 35°C and 23 to 25°C respectively. The minimum temperature will be near normal and the maximum temperature will be near normal. The predominant surface wind will likely to be from the northwest direction with a wind speed of up to 20-22 kmph during morning hours. The wind speed will gradually increase becoming less than 25 kmph from the northwest direction in the afternoon. The wind speed will decrease becoming less than 15 kmph from the west direction during the evening and night.

Agromet advisories for likely impact of Heavy Rainfall

- In Gangetic West Bengal, ensure proper drainage in winter vegetable fields and betel vine gardens in Coastal Saline Zone and rice and vegetable fields in Laterite and Red Soil Zone.
- In West Madhya Pradesh, harvest matured soybean crop and provide adequate drainage facilities in fields of soybean, cotton and vegetables in Nimar Valley Zone. In Jhabua Hill zone, harvest matured vegetables such as tomato, okra, chilli, brinjal, capsicum, cluster beans, cucumber etc. and ensure proper drainage in fields of soybean, maize, cotton, black gram and vegetables.
- In Maharashtra, undertake harvesting of matured crops of groundnut and sorghum and keep the harvested produce at safer places and make provision to drain out excess rain water from fields of cotton, pigeon pea, soybean, maize, vegetables and fruit orchards in Madhya Maharashtra. In Marathwada, keep the harvested produce of black gram at safer places and provide adequate drainage facilities in fields of soybean, cotton, pigeon pea, vegetables and fruit orchards. In Konkan, ensure proper drainage in fields of rice, vegetables and fruit orchards.
- In Gujarat, make arrangements to drain out excess rain water from fields of castor, cotton, pigeon pea and fruit orchards (banana and mango) in South Gujarat Zone and pearl millet, pigeon pea, cotton, soybean, maize, castor and vegetables in Middle Gujarat Zone.

- In Assam, ensure proper drainage to drain out excess water from fields of rice, sugarcane, green gram, black gram, sesame, vegetables and fruit orchards in Hill Zone and rice, black gram and green gram in Barak Valley Zone.
- In Meghalaya, ensure proper field drainage system in rice fields to prevent water stagnation. Avoid standing water above 5 cm in rice fields during flowering stage.
- In Manipur, undertake harvesting of matured pods of soybean and groundnut and store at safer places. Avoid waterlogging in fields of rice, soybean, groundnut, black gram and ginger.
- In Mizoram, undertake harvesting of matured cobs of maize and matured upland Jhum rice and keep the harvested produce in safe place.
- In Nagaland, continue harvesting of sesame and Jhum rice and keep harvested produce at safer places. Maintain proper drainage in fields of rice and soybean.
- In Telangana, make provision to drain out excess rain water from fields of rice, cotton, soybean, maize and pigeon pea in Southern Telangana Zone.

Livestock / 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.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds / Squally 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.

Legends & abbreviations:

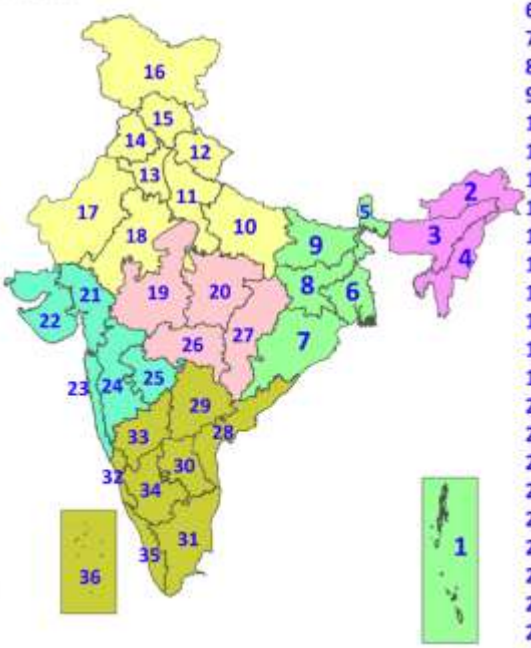
- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO**: 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, 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.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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

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

* 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
(Service to the Nation since 1875)

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
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National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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 ≥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 **(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
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 °C.
Cold Wave	**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) 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
Fog	**Phenomenon of small droplets suspended in air and the horizontal visibility < 1km** **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 ≤4°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 118-165 kmph (64 - 89 knots) **Extremely Severe Cyclonic Storm**: Wind speed 166-220 kmph (90 -119 knots) **Super Cyclone Strom**: Wind speed >220 kmph (>119 knots)

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Hot and Humid: When maximum temperatures remain 3°C above normal along with the above normal relative humidity.