



**Government of India
Ministry of Earth Sciences
India Meteorological Department**



Press Release

Date: 20th October, 2025

Time of Issue: 1330 hours IST

Subject: (i) A Low-Pressure area is likely to form over southeast Bay of Bengal during next 24 hours. It is likely to move west-northwestwards and intensify further into a depression over central parts of south Bay of Bengal and adjoining westcentral Bay of Bengal during subsequent 48 hours.

(ii) The Well marked Low Pressure area lay over southeast Arabian Sea at 0830 hrs IST of today, 20th October 2025. It is likely to continue to move nearly westwards and intensify into a depression during next 24 hours.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 20th October, 2025:

- ❖ **Heavy to very heavy rainfall (7-20 cm)** has been recorded at isolated places over Kerala & Mahe
- ❖ **Heavy rainfall (7- 11 cm)** has been recorded at isolated places over Tamil Nadu, Odisha, Coastal Karnataka and South Interior Karnataka

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

Weather Systems, Forecast and Warnings (refer to ANNEXURE II & III):

- ❖ Yesterday's **Well marked Low Pressure** area over southeast Arabian Sea & Lakshadweep area off Kerala-Karnataka coasts moved nearly westwards and lay over southeast Arabian Sea at 0830 hrs IST of today, 20th October 2025. It is likely to continue to move nearly westwards and intensify into a depression during next 24 hours.
- ❖ The **upper air cyclonic circulation** over south Andaman Sea & adjoining southeast Bay of Bengal persisted and extended upto 5.8 km above mean sea level. Under its influence, a low-pressure area is likely to form over southeast Bay of Bengal during next 24 hours. It is likely to move west-northwestwards and intensify further into a depression over central parts of south Bay of Bengal and adjoining westcentral Bay of Bengal during subsequent 48 hours.
- ❖ An **upper air cyclonic circulation** lies over southeast Arabian Sea off Kerala coast in lower tropospheric level.
- ❖ A **trough** runs from the cyclonic circulation associated with well-marked Low-Pressure area lies over southeast Arabian Sea off Kerala coast to southwest Bay of Bengal in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over northwest Rajasthan & neighbourhood in lower tropospheric level.
- ❖ A **trough** runs from the upper air cyclonic circulation over northwest Rajasthan & neighbourhood to central parts of Madhya Pradesh across East Rajasthan in lower tropospheric level.
- ❖ A **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 65°E to the north of Lat. 28°N.

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

South Peninsular India:

- ❖ Light to moderate rainfall/thunderstorm at many/some places with isolated **heavy rainfall** over **Tamil Nadu during 20th -24th Oct**, Lakshadweep and Coastal Karnataka during 20th -24th ; North Interior Karnataka on 20th & during 23rd -24th ; South Interior Karnataka on 21st & 22nd; Kerala & Mahe on 21st; Coastal Andhra Pradesh & Yanam during 20th -26th Oct; Rayalaseema during 20th to 25th Oct ; Telangana during 23rd -25th with **very heavy rainfall over Tamil Nadu during 20th - 23rd; Kerala & Mahe during 22nd - 24th; Coastal Karnataka on 23rd & 24th; South Interior Karnataka on 20th & during 23rd -25th; Coastal Andhra Pradesh & Yanam and Rayalaseema during 22nd - 25th October.**
- ❖ Thunderstorm with lightning likely over the region during next 5 days.

East & Central India:

- ❖ Light to moderate rain/thunderstorm at many places with isolated **heavy rainfall** over Andaman & Nicobar Islands during 20th-21st & 24th -26th October.
- ❖ Thunderstorm with lightning and gusty winds (speed reaching 30-50 kmph) likely over Odisha and Andaman & Nicobar Islands during 20th-24th with lightning over Madhya Pradesh and Vidarbha during 21st -23rd and Chhattisgarh during 20th -24th October.

West India:

- ❖ Thunderstorm with lightning likely over Konkan & Goa, Marathawada and Madhya Maharashtra during next 2 days.

North India:

- ❖ Thunderstorm with lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and Himachal Pradesh on 21st October.

Warning for Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts

Wind warning:

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts till 24th October. It is likely to increase becoming squally wind with speed reaching 40-50 kmph gusting to 60 kmph over Southeast and adjoining Southwest & Eastcentral Arabian Sea from evening of today, the 20th October, over central parts of south & adjoining central Arabian sea on 21st October and over southwest & adjoining westcentral Arabian Sea on 22nd & 23rd October.

Sea condition:

Sea condition is moderate to rough over Southeast and adjoining southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts. It would become rough to very rough over Southeast & adjoining southwest & Eastcentral Arabian Sea from evening of today, the 20th October, over central parts of south and adjoining central Arabian Sea from on 21st October and over southwest and adjoining westcentral Arabian Sea on 22nd & 23rd October 2025.

Fishermen warnings:

Fishermen are advised not to venture into Southeast & adjoining Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts till 21st October and over southwest and adjoining southeast & west central Arabian Sea during 22nd to 23rd October 2025.

Warning for Areas of Bay of Bengal and adjoining South Andaman Sea

Wind warning:

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over South Bay of Bengal and over Andaman Sea during 20th to 24th October. Squally wind with speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over central parts of south Bay of Bengal and adjoining areas of central Bay of Bengal on 22nd, and becoming 45-55 kmph gusting to 65 kmph over Southwest and adjoining Westcentral Bay of Bengal during 23rd to 25th October.

Squally wind with speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Tamil Nadu coast on 20th & 21st October, becoming 40-50 kmph gusting to 60 kmph on 22nd and 45-55 kmph gusting to 65 kmph during 23rd to 25th October.

Squally wind with speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off south Andhra Pradesh coasts on 22nd, becoming 40-50 kmph gusting to 60 kmph on 23rd October, and 45-55 kmph gusting to 65 kmph on 24th & 25th October.

Sea conditions:

Sea condition is likely to be moderate to rough over South Bay of Bengal and Andaman Sea during 20th to 24th October.

Sea condition is likely to become rough to very rough over central parts of south Bay of Bengal and adjoining areas of central Bay of Bengal on 23rd, and over Southwest and adjoining Westcentral Bay of Bengal on 24th & 25th October.

Sea condition is likely to be moderate to rough along & off Tamil Nadu & south Andhra Pradesh coasts till 21st and rough to very rough from 22nd to 25th October.

Fishermen Warning:

Fishermen are advised not to venture into South and adjoining central Bay of Bengal from today, the 20th October afternoon onwards. Those fishermen out at sea should return to coast.

ii. Weather conditions and forecast over Delhi/NCR during 20th to 23rd October, 2025 (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/fishermen-warning.php>

Impact & Action Suggested due to

- ❖ **Very heavy rainfall** over Tamil Nadu during 20th - 23rd; Kerala & Mahe during 22nd - 24th; Coastal Karnataka on 23rd & 24th; South Interior Karnataka on 20th & during 23rd -25th; Coastal Andhra Pradesh & Yanam and Rayalaseema during 22nd - 25th October.

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/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments mainly over Bihar, Jharkhand and West Bengal (for riverine flooding please visit Web page of CWC)

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 likely impact of Heavy / Heavy to Very Heavy Rainfall

- In **Tamil Nadu**, store the harvested produce of rice and groundnut in safer places. Drain out excess water from fields of rice, cotton, black gram, maize, tapioca and vegetables and plantations of coconut, banana and black pepper to avoid water stagnation.
- In **Kerala**, keep the harvested produce of rice in safer places. Drain out excess water from fields of rice, vegetables and plantations of banana, coconut, arecanut, cardamom and black pepper.
- In **Andhra Pradesh**, harvest matured groundnut crop and matured cobs of maize during fair weather / non-rainy period only and store the produce in safe places. Provide adequate drainage facilities in fields of rice, maize, pigeon pea, black gram, green gram, groundnut, turmeric, ginger, vegetables and plantations of banana, coconut and arecanut.
- In **Coastal Karnataka**, drain out excess water from fields of rice and plantations of coconut, arecanut and black pepper. In **South Interior Karnataka**, keep the harvested produce of groundnut and maize in dry, covered and ventilated areas or cover with tarpaulins in the fields. Harvest matured crops such as rice, pulses, vegetables, cardamom and coffee during dry intervals and store the harvested produce in well-

ventilated and moisture-free places. Make necessary arrangements to drain out excess water from fields of rice, maize, finger millet, pulses, groundnut and vegetables and plantations of banana, black pepper, cardamom, coffee, coconut and arecanut to avoid waterlogging.

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.
- Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface 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.

ANNEXURE I

Rainfall recorded (in cm) during past 24 hours till 0830 hours IST of today, the 20th October (≥ 7cm):

Kerala & Mahe: Kodungallur (dist Thrissur) 13; Munakkal AWS (dist Thrissur) 9; Palakkad (dist Palakkad), Mannarkkad (dist Palakkad), Kanjirapuzha ARG (dist Palakkad), Peringome AWS (dist Cannur), Pothundy Dam AWS (dist Palakkad), Malampuzha Dam AWS (dist Palakkad) 8 Each; Irinjalakuda (dist Thrissur), Alathur (dist Palakkad), Lower Sholayar AWS (dist Thrissur) 7 Each;

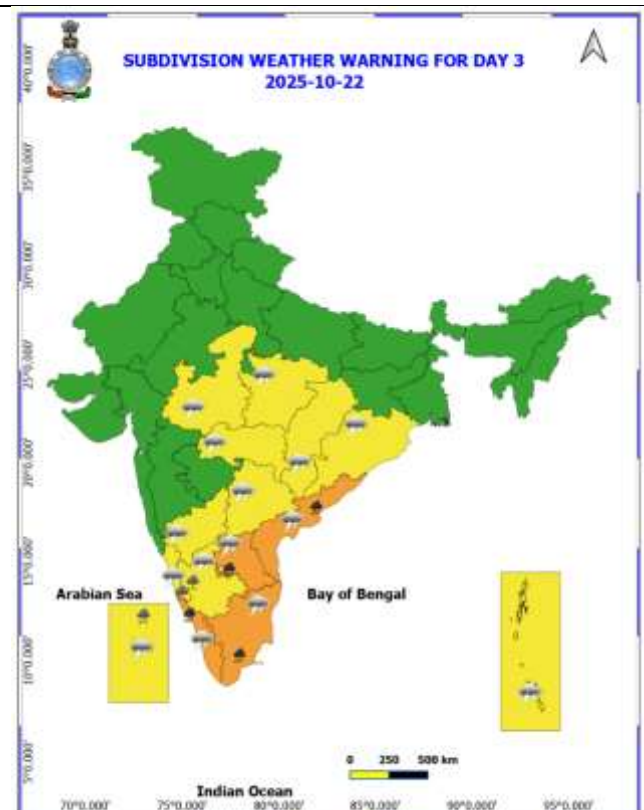
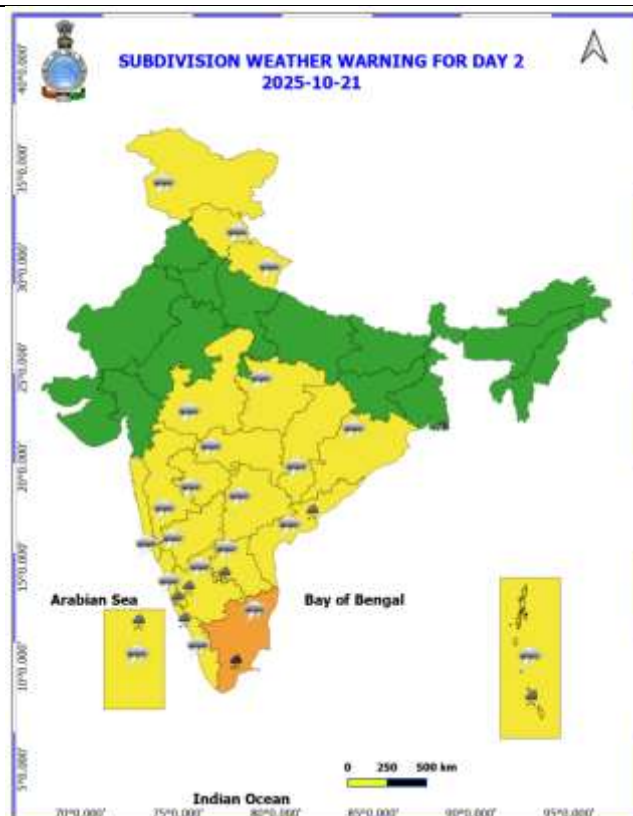
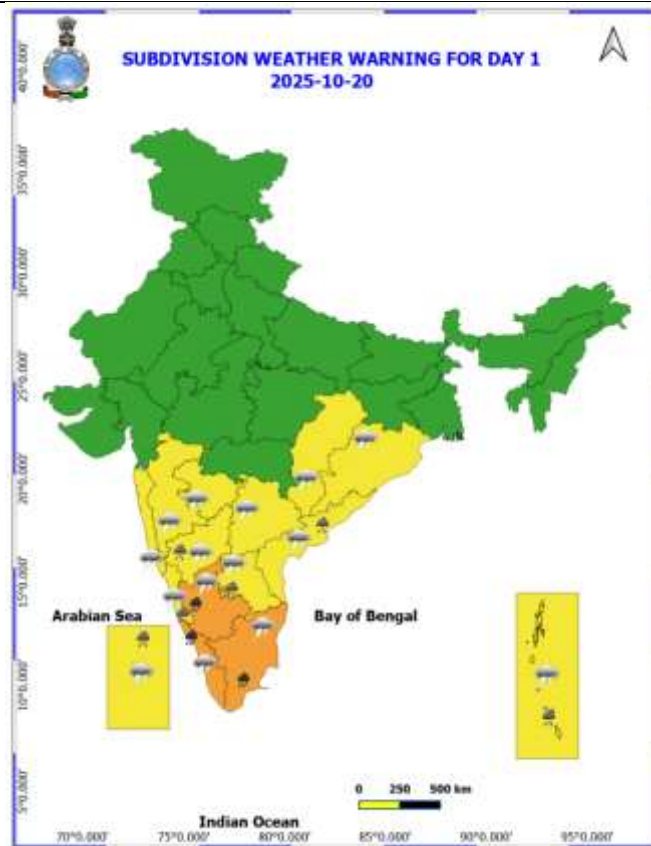
Tamil Nadu, Puducherry & Karaikal: Coonoor (dist Nilgiris), Coonoor PTO (dist Nilgiris) 10 Each; Burliar (dist Nilgiris), Kodivery (dist Erode) 9 Each; Tuticorin Rly ARG (dist Toothukudi), Theerthandathanam (dist Ramanathapuram), Kavundapadi (dist Erode), Kil Kotagiri Estate (dist Nilgiris), Servalar Dam (dist Tirunelveli) 8 Each; Sathyamangalam (dist Erode), Rajapalayam (dist Virudhunagar), Adar Estate (dist Nilgiris), Sothuparai (dist Theni), Pillur Dam Mettupalayam (dist Coimbatore) 7 Each;

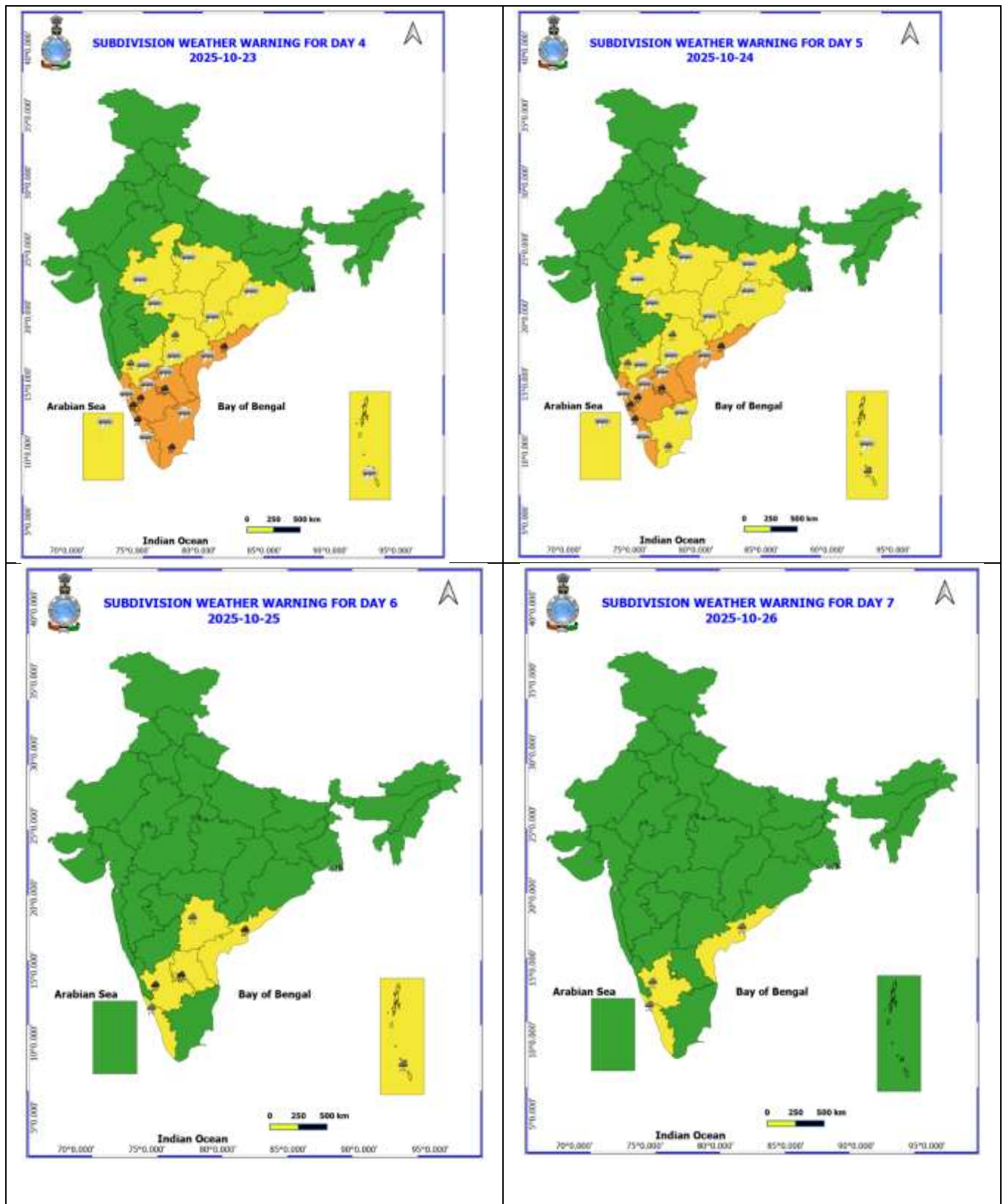
South Interior Karnataka: Arkalgud (dist Hassan) 8; Anavatti (dist Shivamogga), Kunigal (dist Tumakuru) 7 Each;

Coastal Karnataka: Shakti Nagar (dist Dakshina Kannada) 7.

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

- 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 districtwise MultiHazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 20th to 23rd October 2025**Past Weather:**

There has been no large change in the minimum and maximum temperature over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi were around 31 to 33°C and 19 to 20°C respectively. The minimum temperature was above normal up to 1 – 3°C and maximum temperature was near normal. Mainly clear sky conditions with predominant surface wind from the northwest direction with wind speeds up to 08 kmph prevailed during the past 24 hours. Mainly clear sky conditions with haze/mist during early morning hour associated with calm wind as gradually increase becoming up to 06 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

20.10.2025: Mainly clear sky with mist/haze from noon onwards. The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 34°C. The maximum temperature will be above normal up to 1 – 2°C. The predominant surface wind will likely to be from the southeast direction with a wind speed of up to 05 - 10 kmph during afternoon hours. The wind speed will decrease becoming less than 08 kmph from the east direction during the evening and night.

21.10.2025: Smog/shallow fog is likely at many places during morning hours becoming mainly clear sky with mist/haze from noon onwards. The maximum and minimum temperatures over Delhi are likely to be in the range of 31 to 33°C and 20 to 22°C respectively. The minimum temperature will be above normal up to 1 – 3°C and the maximum temperature will be near normal. The predominant surface wind will likely to be from the southeast direction with a wind speed of up to 00 - 05 kmph during morning hours. The wind speed will gradually increase becoming less than 06 kmph from the southeast direction in the afternoon. The wind speed will increase becoming less than 08 kmph from the east direction during the evening and night.

22.10.2025: Smog/shallow to moderate fog is likely at many places during morning hours becoming mainly clear sky with mist/haze from noon onwards. The maximum and minimum temperatures over Delhi are likely to be in the range of 31 to 33°C and 19 to 21°C respectively. The minimum temperature will be above normal up to 1 – 2°C and the maximum temperature will be near normal. The predominant surface wind will likely to be from the southeast direction with a wind speed of up to 00 - 05 kmph during morning hours. The wind speed will increase becoming less than 06 kmph from the northeast direction in the afternoon. The wind speed will gradually increase becoming less than 08 kmph from the southeast direction during the evening and night.

23.10.2025: Mainly clear sky. Mist/haze in the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 31 to 33°C and 18 to 20°C respectively. The minimum temperature will be above normal up to 1 – 2°C and the maximum temperature will be near normal. The predominant surface wind will likely to be from the variable direction with a wind speed of calm during morning hours. The wind speed will increase becoming less than 10 kmph from the north direction in the afternoon. The wind speed will gradually decrease becoming less than 06 kmph from the northeast direction during the evening and night.

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

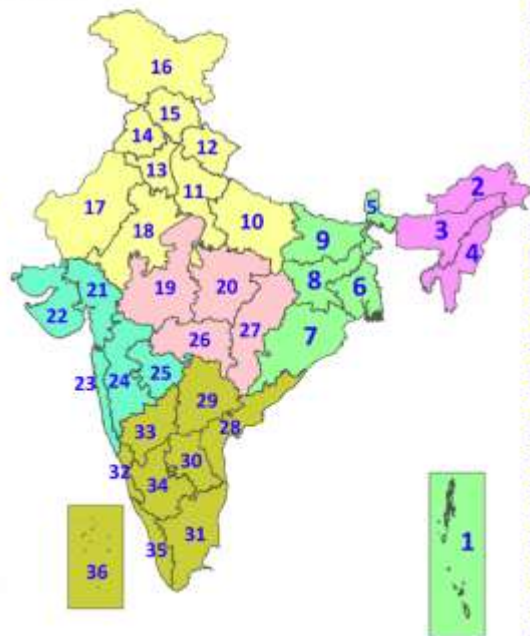
32. तटीय कर्नाटक

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

* 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)

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 62-67 kmph

Very Severe: Wind speed > 67 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 Storm: 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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