Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 17th October, 2024
Time of Issue: 1300 hours IST

Subject: (i) Isolated heavy rainfall likely to continue over parts of south Peninsular India during next 4-5 days. No significant rainfall activity likely over rest parts of the country during next one week.
(ii) A fresh low pressure area likely to form over Central Bay of Bengal around 22nd October.

Realised rainfall during past 24 hours till 0830 hours IST of today (Annexure I)

Heavy to very Heavy rainfall at isolated places over Rayalaseema; **Heavy rainfall** at isolated places over Karnataka, Gangetic West Bengal, Konkan & Goa, Telangana, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra.

Weather Systems:

- Yesterday's **Depression** over westcentral & adjoining Bay of Bengal crossed north Tamil Nadu - South Andhra Pradesh coasts between Puducherry and Nellore, close to north of Chennai, near latitude 13.5°N and longitude 80.2°E around 0430 hrs IST of today, the 17th October. Subsequently, it weakened into a well marked low pressure area and lay over South coastal Andhra Pradesh & adjoining North coastal Tamil Nadu at 0530 hrs IST of today and associated cyclonic circulation extends upto 5.8 Km above mean sea level tilting southwestwards with height. it persisted over same region at 0830 hours IST of today. It is likely to move west-northwestwards and weaken into a low pressure area during next 06 hours.
- A fresh **upper air cyclonic circulation** very likely to form over North Andaman Sea around 20th October. Under its influence, a low pressure area likely to form over Central Bay of Bengal around 22nd October, thereafter, it is likely to move northwestwards and intensify further.

Forecast & Warnings (upto 7 days) (Annexure II & III):

South Peninsular India

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Kerala & Mahe, Lakshadweep, Karnataka; Scattered to Fairly widespread light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana during the week.

- ✓ **Isolated heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal on 18th, 20th & 21st; South Interior Karnataka during 17th-22nd; Kerala & Mahe on 17th, 22nd & 23rd; Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & North Interior Karnataka on 17th October.

West India

- ✓ Scattered to Fairly widespread light to moderate rainfall very likely over Konkan & Goa, Madhya Maharashtra during next 5 days and isolated to scattered light to moderate rainfall during subsequent 2 days over the same region; Isolated to Scattered light to moderate rainfall over Marathwada, Gujarat State next 5 days and isolated light to moderate rainfall during subsequent 2 days over the same region;
- ✓ **Isolated heavy rainfall** very likely over Konkan & Goa and Madhya Maharashtra on 17th; Saurashtra & Kutch on 20th & 21st; Gujarat Region on 19th & 20th October.

Northwest, East, Central & Northeast India:

- ✓ No significant rainfall likely over these regions during the week.

Fishermen Warning:

- ✓ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over along and off Kerala, Karnataka, Goa, Maharashtra coasts, over eastcentral Arabian sea and Lakshadweep areas, over Comorin area, Gulf of manner.

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 warnings, kindly refer:
https://rsmcnewdelhi.imd.gov.in/uploads/archive/51/51_bdf575_GRAPHIC.png

ANNEXURE I

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 17.10.2024 (in cm):

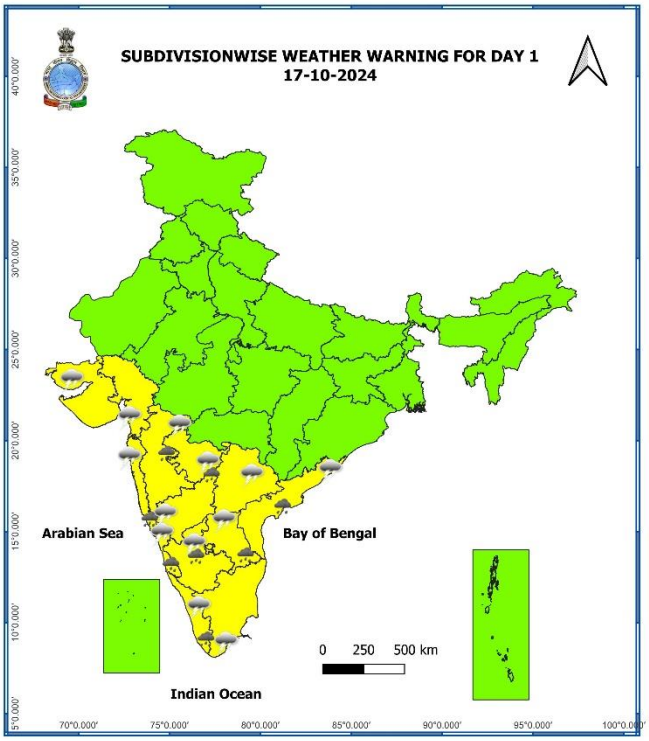
- **Rayalaseema:** Kodur (dist Ysr District) 14, Pullampeta (dist Annamayya District) 10, Penu Konda (dist Sri Sathyasai District) 9, Ramagiri (dist Sri Sathyasai District) 8, Nandikotkur (dist Nandyal) 8, Chenne Kothapalle (dist Sri Sathyasai District) 7, Jupadu Bungalow (dist Nandyal) 7, Rajampet (dist Annamayya District) 7, Venkatagiri (dist Tirupati) 7, Srikalahasti (dist Tirupati) 7, Nallamada (dist Sri Sathyasai District) 7, Gorantla (dist Sri Sathyasai District) 7, Penagaluru (dist Annamayya District) 7, Tirupati Aero (dist Tirupati) 7,
- **Konkan & Goa:** Margao (dist South Goa) 11, Ponda (dist North Goa) 10, Pernem (dist North Goa) 9, Sawantwadi (dist Sindhudurg) 7, Mulde_ Agri (dist Sindhudurg) 7,
- **Gangetic West Bengal:** Durgapur (dist Paschim Bardhaman) 11, Burnpur (dist Paschim Bardhaman) 8, Luchipur (dist Paschim Bardhaman) 8,
- **Telangana:** Gambhiraopet (dist Rajanna Sircilla) 9,
- **South Interior Karnataka:** Davanagere (dist Davangere) 9, Davanagere Pto (dist Davangere) 9, Y N Hoskote (distTumakuru) 7,
- **Coastal Andhra Pradesh & Yanam:** Nellore (dist Spsr Nellore) 7,
- **Madhya Maharashtra:** Fmo (dist Nashik) 7,
- **Coastal Karnataka:** Mangaluru Ap Obsy (dist Dakshina Kannada) 7,
- **North Interior Karnataka:** Haveri Apmc (dist Haveri) 7,

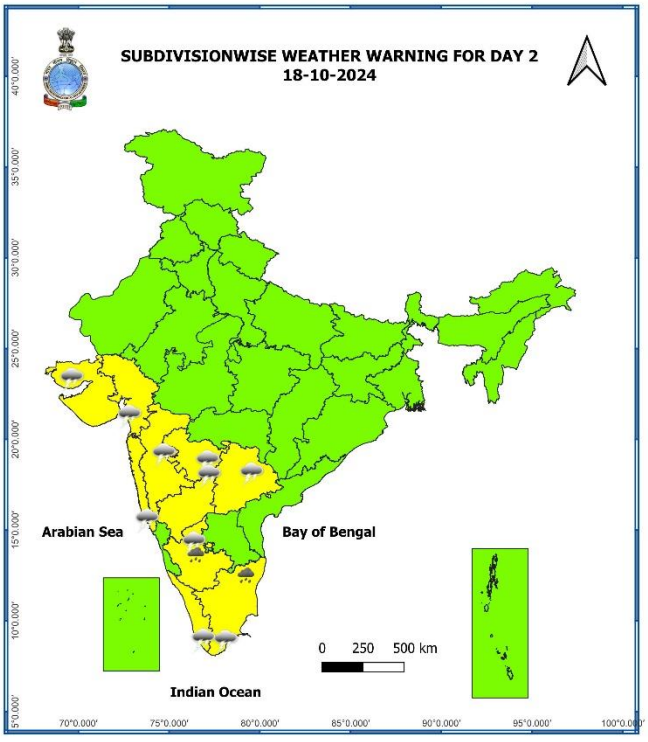
ANNEXURE II

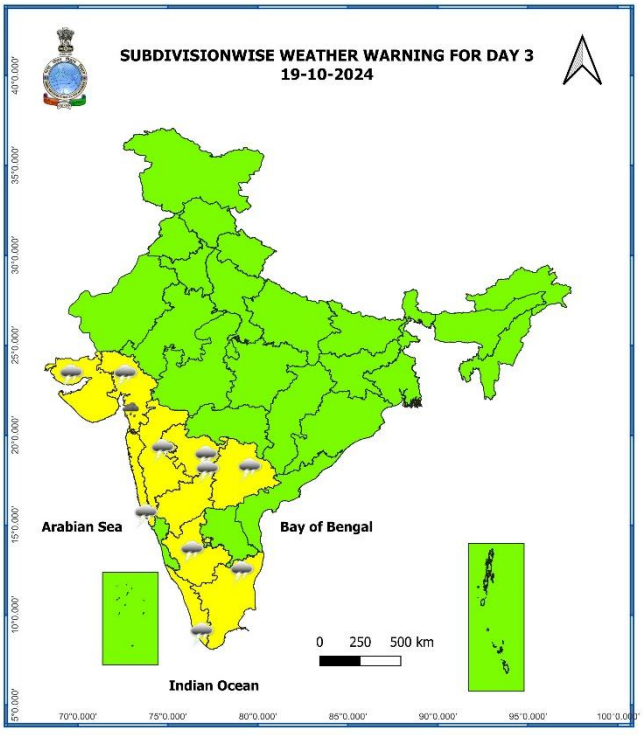
7 Days Rainfall Forecast								
S. No.	Subdivision	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	WS	FWS	FWS
2	ARUNACHAL PRADESH	SCT	SCT	ISOL	ISOL	DRY	DRY	ISOL
3	ASSAM & MEGHALAYA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	SCT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

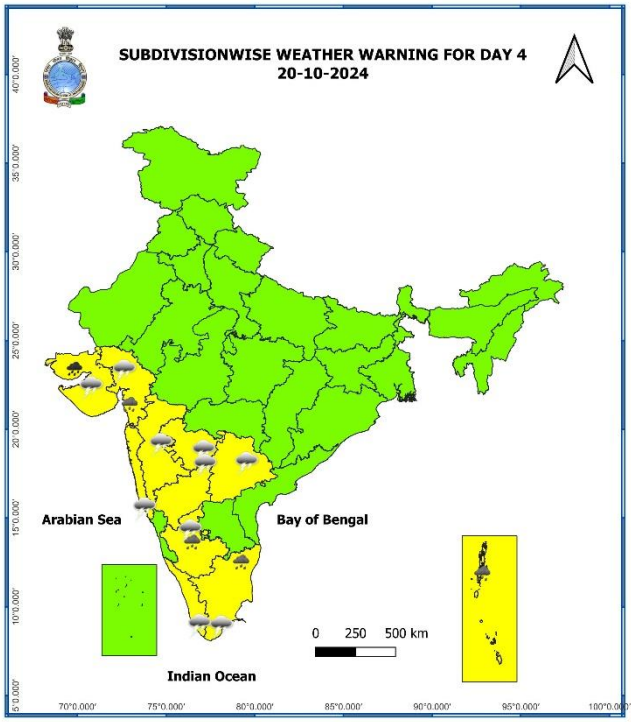
- **As the lead period increases forecast accuracy decreases.**

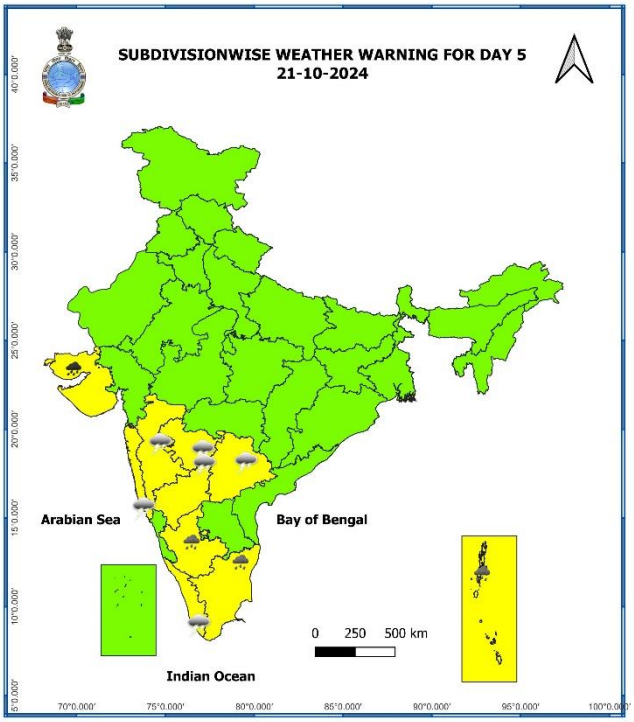
ANNEXURE III

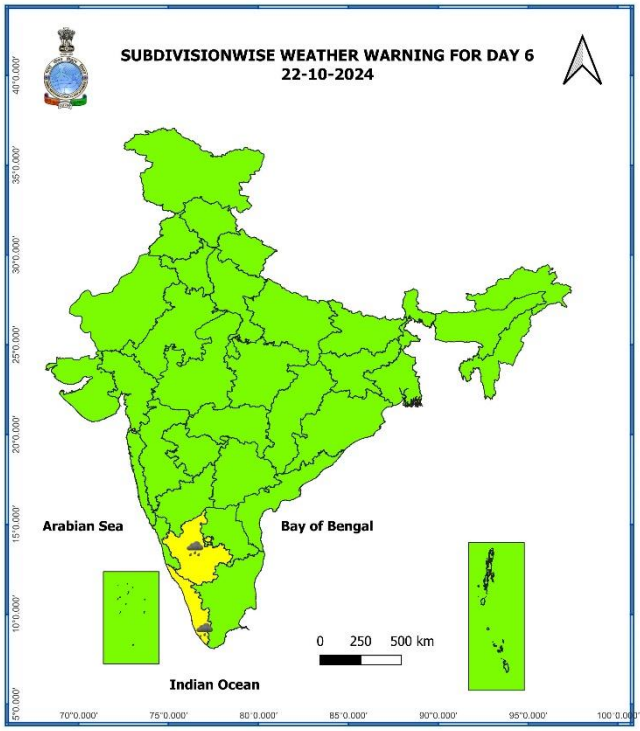


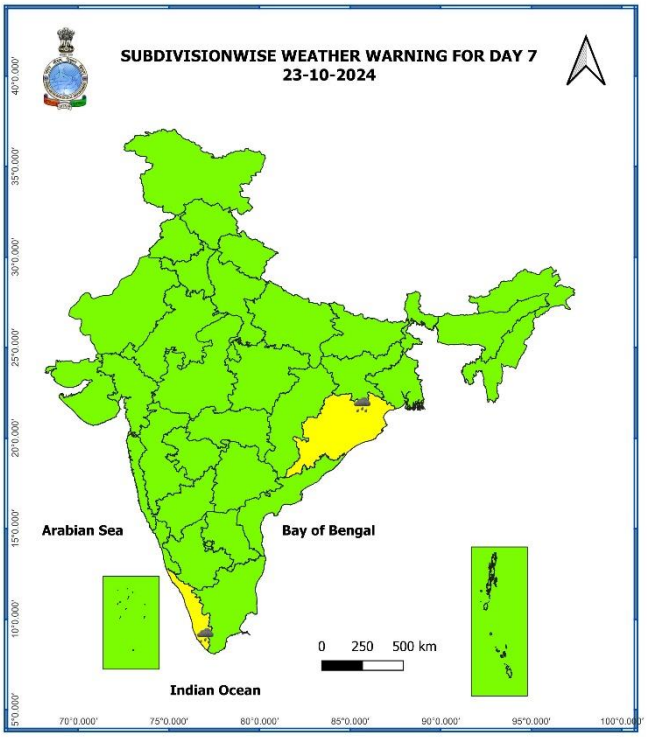












- **Action may be taken based on ORANGE AND RED COLOUR warnings.**
- **Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.**
- **As the lead period increases forecast accuracy decreases.**

Legends & abbreviations:

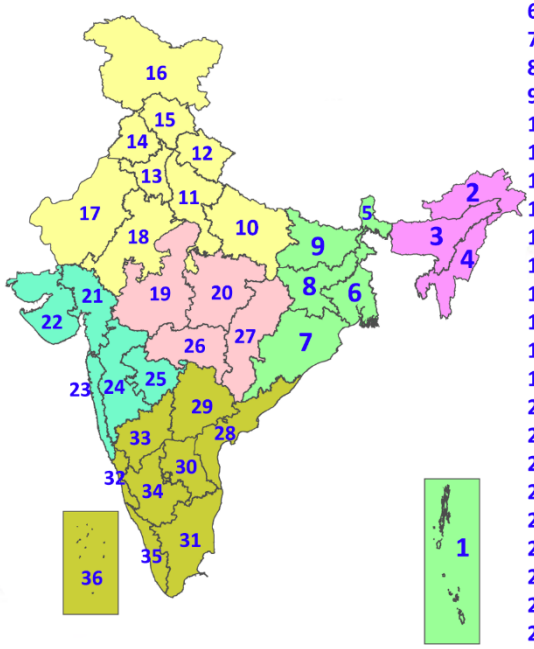
- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; **AWS:** Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO**: Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- **Region wise classification of meteorological Sub-Divisions:**
  - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
  - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

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)

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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