



Thursday, July 06, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features, Forecast and Warning during next 5 days:

- ❖ The Monsoon trough at mean sea level runs to the south of its normal position.
- ❖ The east-west shear zone runs roughly along Lat. 15°N in middle tropospheric levels.
- ❖ The off-shore trough at mean sea level runs from south Gujarat coast to north Kerala coast.
- ❖ The cyclonic circulation lies over North & adjoining Central Bay of Bengal in lower and middle tropospheric levels.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from the night of 8th July.

Weather Forecast and Warning:

South India: Light/moderate widespread rainfall with **isolated heavy to very heavy rainfall** very likely to continue over the region during next 24 hours & decrease thereafter.

West India: Light/moderate widespread rainfall with **Isolated heavy to very heavy rainfall** very likely over Konkan & Goa, ghat areas of Madhya Maharashtra and Gujarat state during next 5 days. **Isolated extremely heavy falls** also likely over Konkan & Goa and ghat areas of Madhya Maharashtra on 06th; over Gujarat region on 07th and Saurashtra & Kutch on 07th & 08th July.

Northwest India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** is very likely over the region during next 5 days.

Thereafter, under the influence of a Western Disturbance and its interaction with monsoonal winds; **isolated heavy to very heavy rainfall** is also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab and Haryana-Chandigarh on 09th July.

Central India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** is very likely over the region during next 2 days. **Isolated very heavy rainfall** is also very likely over Vidarbha and Chhattisgarh on 06th July.

East & adjoining Northeast India: Fairly widespread to widespread light/moderate rainfall with **isolated Heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim, Odisha, Bihar during next 5 days; over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur during next 2 days and decrease thereafter.



Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places over** Kerala & Mahe, Coastal Karnataka, Punjab; **at many places over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand Konkan & Goa; **at a few places over Himachal Pradesh, Odisha, Gangetic West Bengal, Madhya Pradesh and at isolated places over** Uttar Pradesh, Haryana-Chandigarh-Delhi, Rajasthan, Sub-Himalaya West Bengal & Sikkim, Assam & Meghalaya, Gujarat state, Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Bihar, Tamil Nadu, Puducherry & Karaikal, Vidarbha, Andaman & Nicobar Islands, Lakshadweep.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to Very heavy rainfall** at isolated places over Uttarakhand and **Heavy rainfall** at isolated places over Punjab, Odisha, Konkan & Goa.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (**in cm**): **Uttarakhand:** Dehradun-14, Mukteshwar-1; **Punjab:** Ludhiana-10, Amritsar-2, Patiala-1; **Odisha:** Chandbali-9, Bhubaneswar-1; **Konkan & Goa:** Goa-8; **Kerala & Mahe:** Cannur-5, Kozhikode-3; **East Madhya Pradesh:** Khajuraho-5, **Coastal Karnataka:** Mangalore-6, Karwar-5; **Gangetic West Bengal:** Diamond Harbour & Haldia-4, Canning-1; **East Rajasthan:** Kota-3; **West Madhya Pradesh:** Ratlam & Bhopal-2. Ujjain-1; **Haryana-Chandigarh-Delhi:** Palam-1, Chandigarh-1, **East Uttar Pradesh:** Lucknow-1.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Rajasthan, Himachal Pradesh, Punjab, Uttar Pradesh, West Madhya Pradesh, Bihar, West Bengal & Sikkim, Gujarat Region, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Vidarbha, Chhattisgarh and Haryana.
- ❖ **Minimum Temperature Departures (as on 05-07-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Rajasthan, Gujarat Region; at a few places over Madhya Pradesh, Chhattisgarh, Odisha, Gangetic West Bengal. They were **below normal (-1.6°C to -3.0°C)** at many places over Lakshadweep; at a few places over Tamil Nadu, Puducherry & Karaikal, Telangana; at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 20.8°C** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 05-07-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over Chhattisgarh; at many places over East Madhya Pradesh, Jharkhand, Gangetic West Bengal; at a few places over West Madhya Pradesh, Vidarbha, Sub-Himalaya West Bengal & Sikkim; at isolated places over Saurashtra & Kutch, East Rajasthan, Odisha and Madhya Maharashtra. They were **markedly below normal (5.1°C or less)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Bihar and Punjab; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand, Rayalaseema, Coastal Karnataka; at many places over Kerala & Mahe; at a few places over Bihar, Konkan & Goa, Telangana and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 40.3°C** was reported at **Bikaner (West Rajasthan)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon Trough at mean sea level now passes through Bikaner, Ajmer, Guna, Jabalpur, Bilaspur, Puri and thence east-southeastwards to Eastcentral Bay of Bengal.
- ❖ The east-west shear zone roughly along Lat. 15°N between 4.5 & 7.6 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level from south Gujarat coast to north Kerala coast persists.
- ❖ The cyclonic circulation over North & adjoining Central Bay of Bengal between 1.5 & 7.6 km above mean sea level tilting southwestwards with height persists.
- ❖ The cyclonic circulation over central parts of Uttar Pradesh at 3.1 km above mean sea level persists.
- ❖ The Western Disturbance in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 70°E to the north of Lat. 30°N persists.
- ❖ The cyclonic circulation over north Pakistan & adjoining Punjab extending upto 1.5 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from the night of 8th July.

Weather Forecast for next 5 days (Upto 0830 hours IST of 10th July, 2023)

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

Weather Outlook for subsequent 2 days (During 10th July-12th July, 2023)

- ❖ Fairly widespread to widespread light/moderate rainfall likely over most parts of the country except over extreme south Peninsular India where isolated rainfall is likely.
- ❖ Isolated to scattered rainfall over remaining part of the country India.



Table-1

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

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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

Fig. 1: Maximum Temperatures Dated 05.07.2023

Fig. 2: Departure of Maximum Temp. Dated 05.07.2023

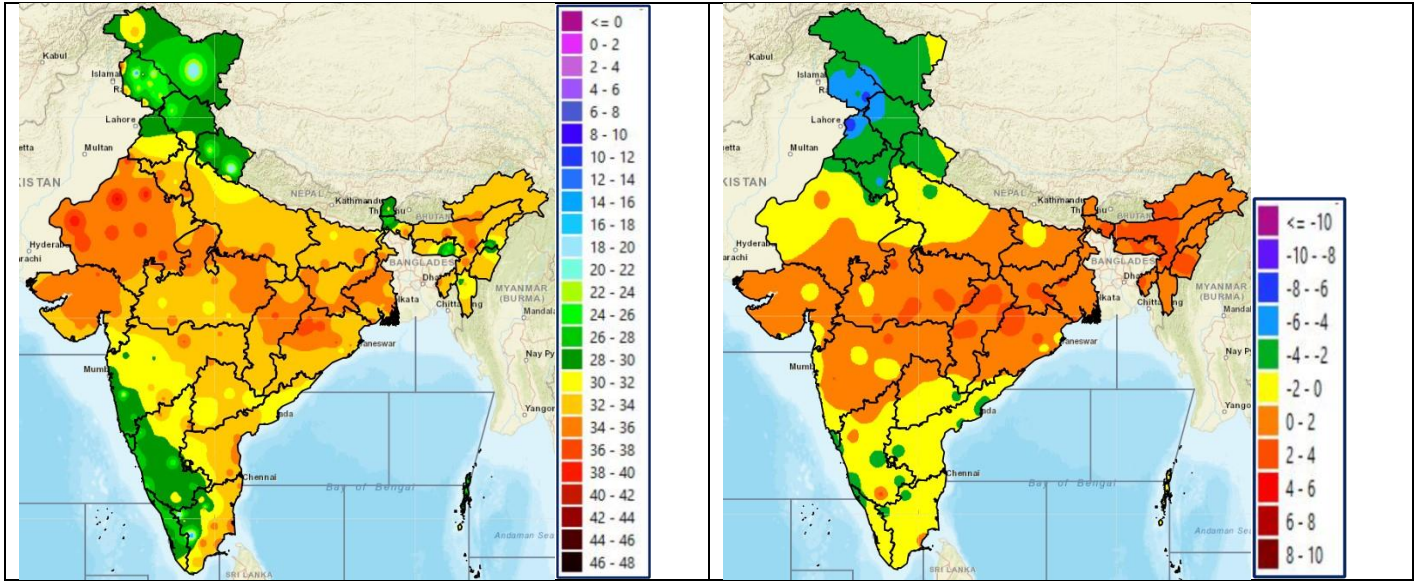


Fig. 3: Minimum Temperatures Dated 05.07.2023

Fig. 4: Departure of Minimum Temp. Dated 05.07.2023

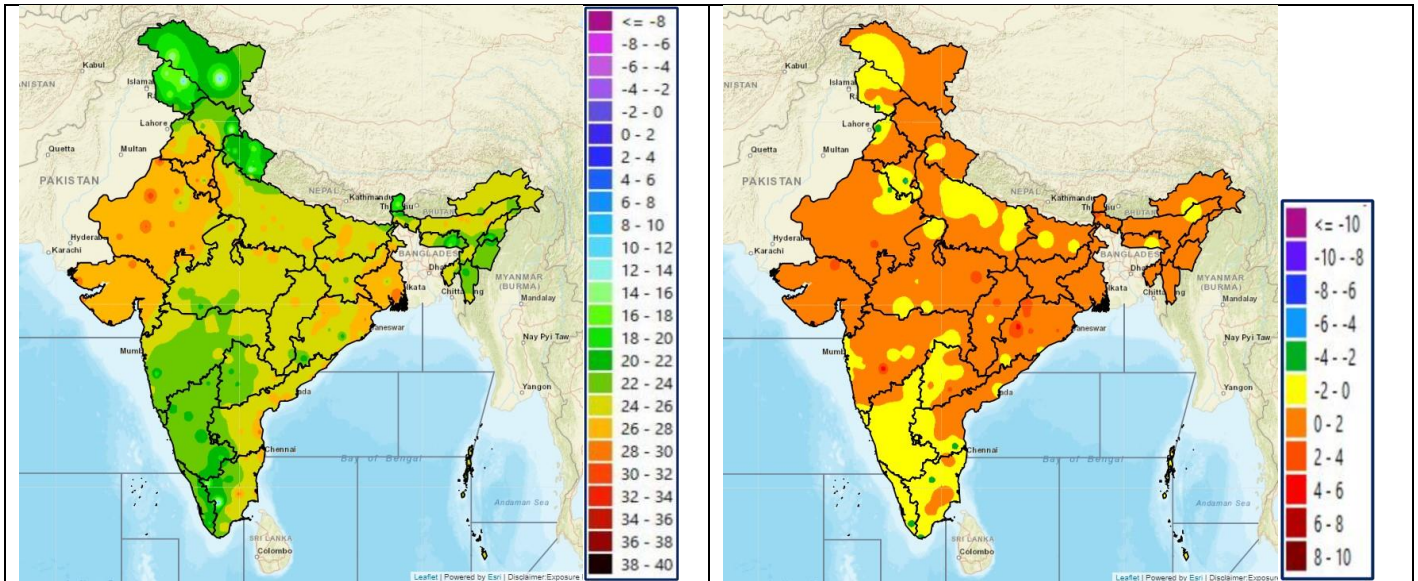
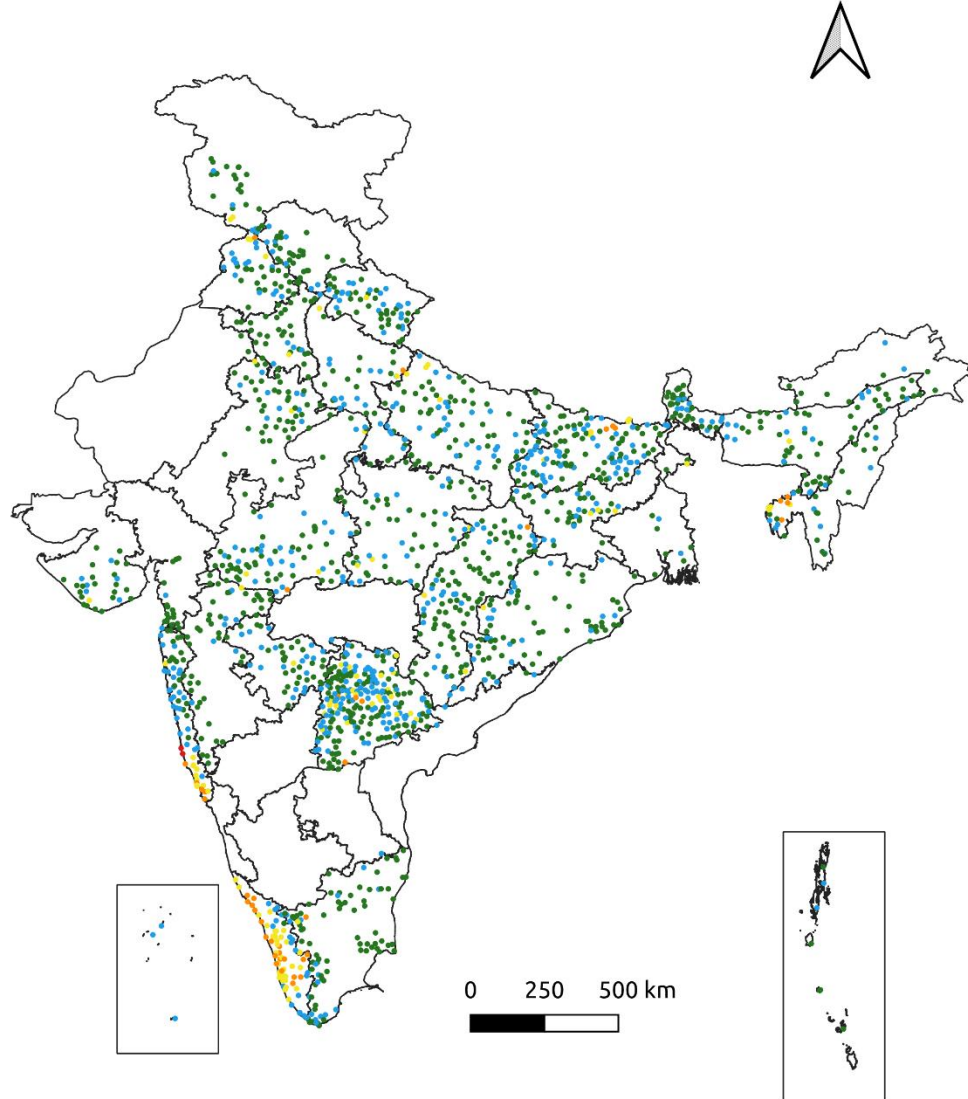


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 4-7-2023 to 0830 IST of 5-7-2023

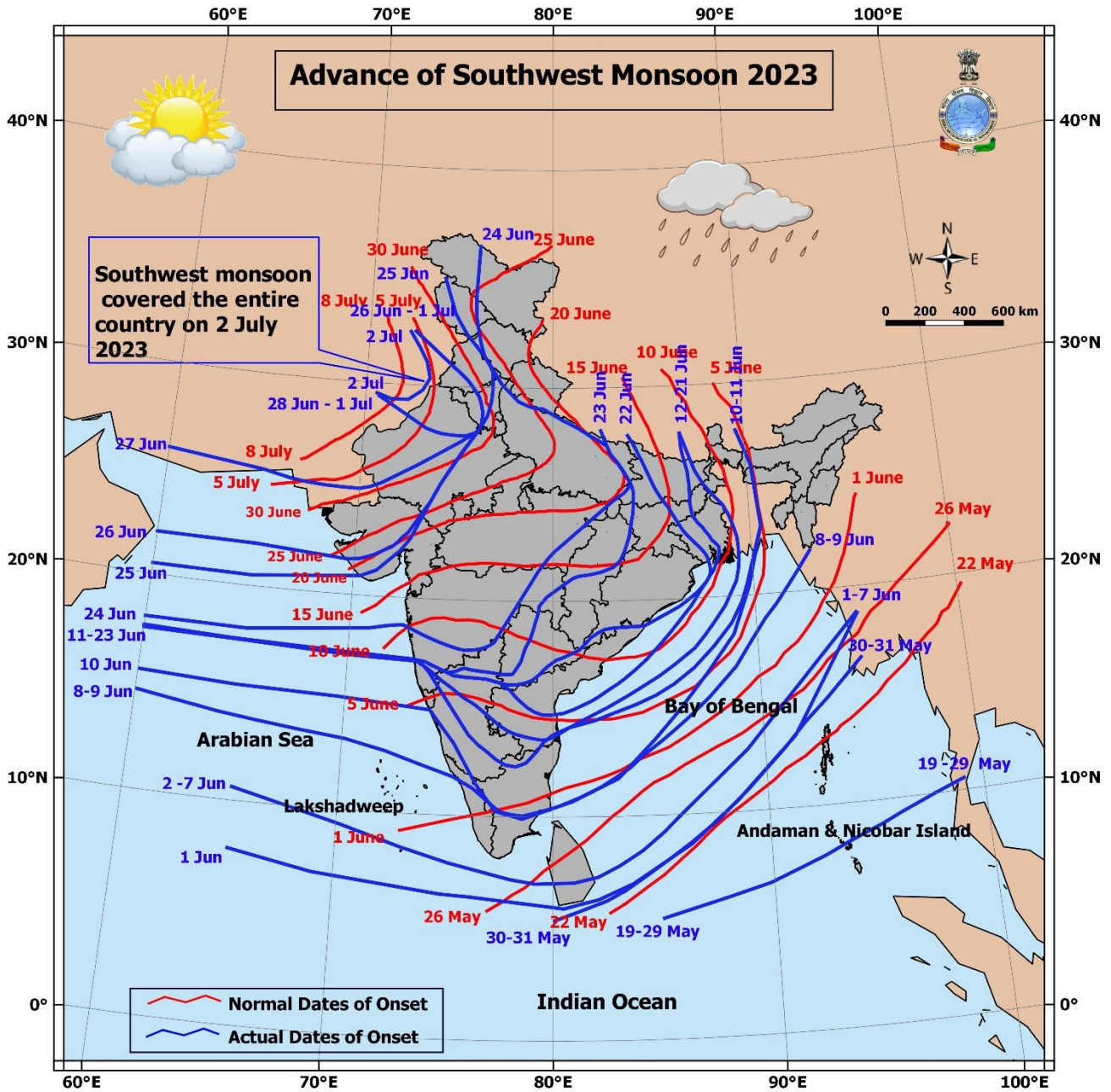


Legends

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



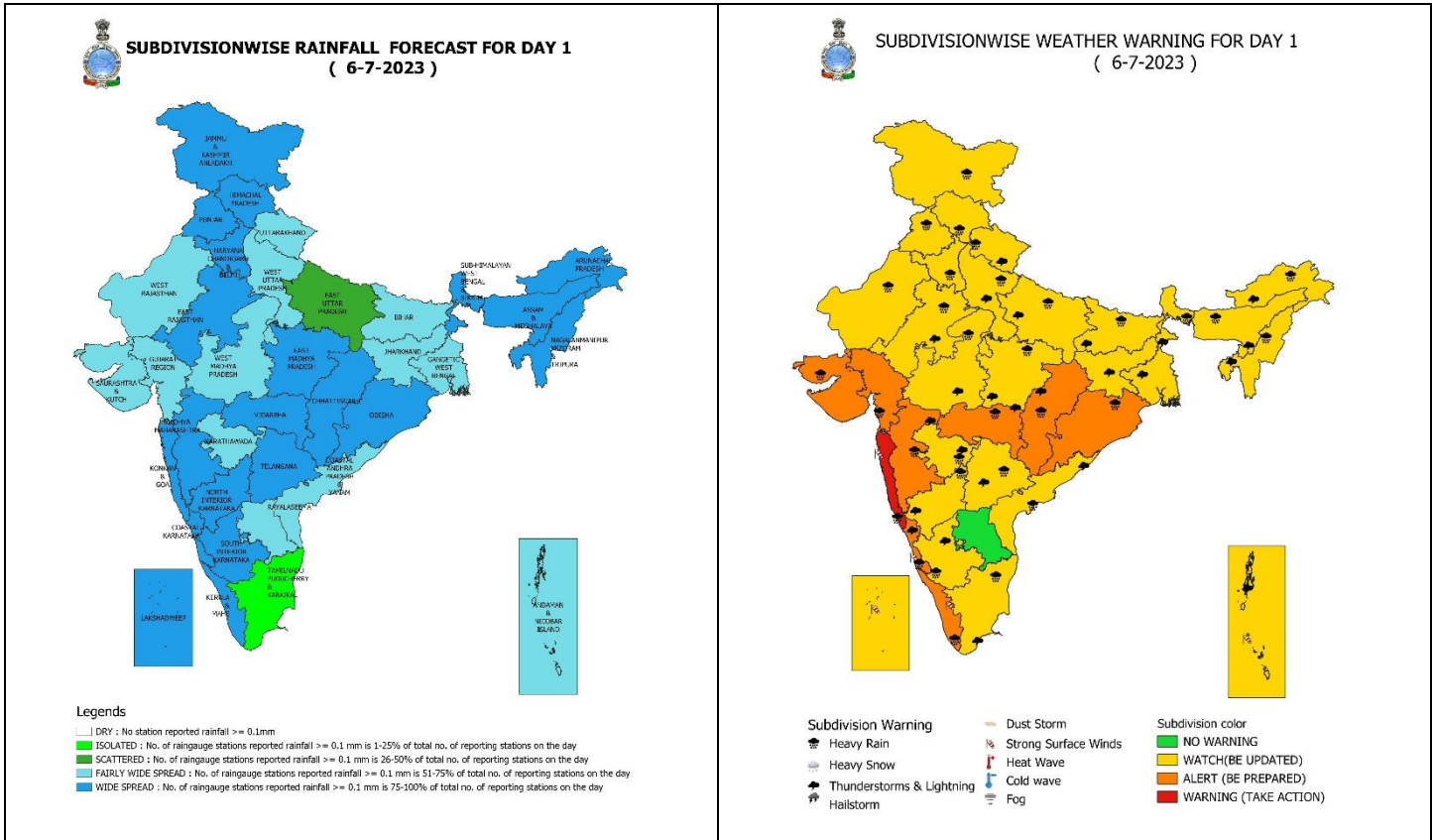
Fig. 6: Advance of Southwest Monsoon



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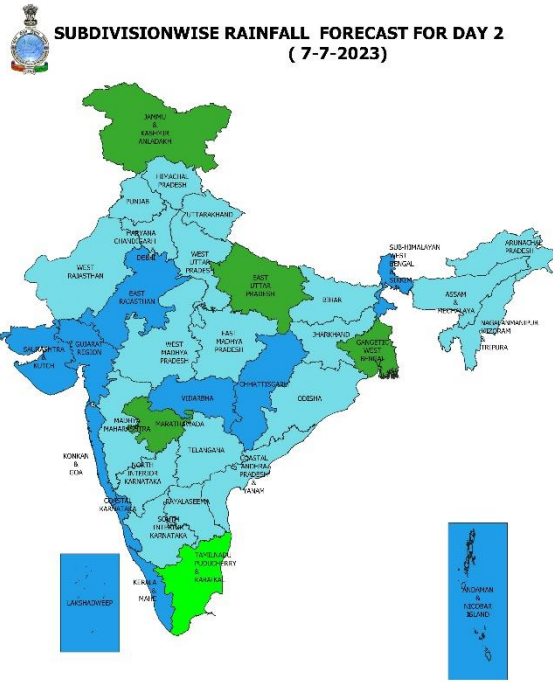
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06 July (Day 1):

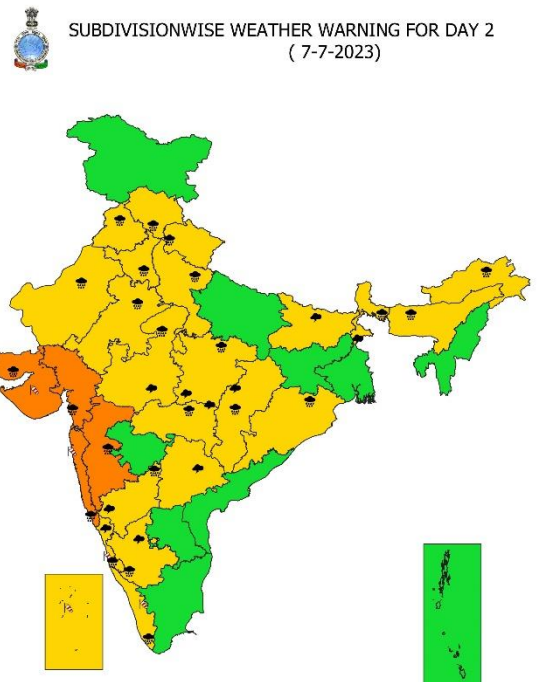
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **heavy to very heavy rainfall** likely at isolated places over Odisha, Gujarat state, Vidarbha, Chhattisgarh, Coastal Karnataka, Kerala & Mahe and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim, Bihar, Himachal Pradesh, Uttarakhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttar Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm with lightning and gusty wind (30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Bihar, Jharkhand, Uttar Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Karnataka.

Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off Kerala-Karnataka-Maharashtra coasts, Gulf of Mannar, Lakshadweep area and Andaman Sea. Fishermen are advised not to venture into these areas.



Legends

□ DRY : No station reported rainfall ≥ 0.1 mm
 ■ ISOLATED : No. of rain-gauge stations reported rainfall ≥ 0.1 mm is 1-25% of total no. of reporting stations on the day
 ■ SCATTERED : No. of rain-gauge stations reported rainfall ≥ 0.1 mm is 26-50% of total no. of reporting stations on the day
 ■ FAIRLY WIDE SPREAD : No. of rain-gauge stations reported rainfall ≥ 0.1 mm is 51-75% of total no. of reporting stations on the day
 ■ WIDE SPREAD : No. of rain-gauge stations reported rainfall ≥ 0.1 mm is 75-100% of total no. of reporting stations on the day



Subdivision Warning

- ☁ Heavy Rain
- ❄ Heavy Snow
- ⚡ Thunderstorms & Lightning
- ⚡ Hailstorm
- ☁ Dust Storm
- 🌪 Strong Surface Winds
- 🔥 Heat Wave
- ❄ Cold wave
- 🌫 Fog

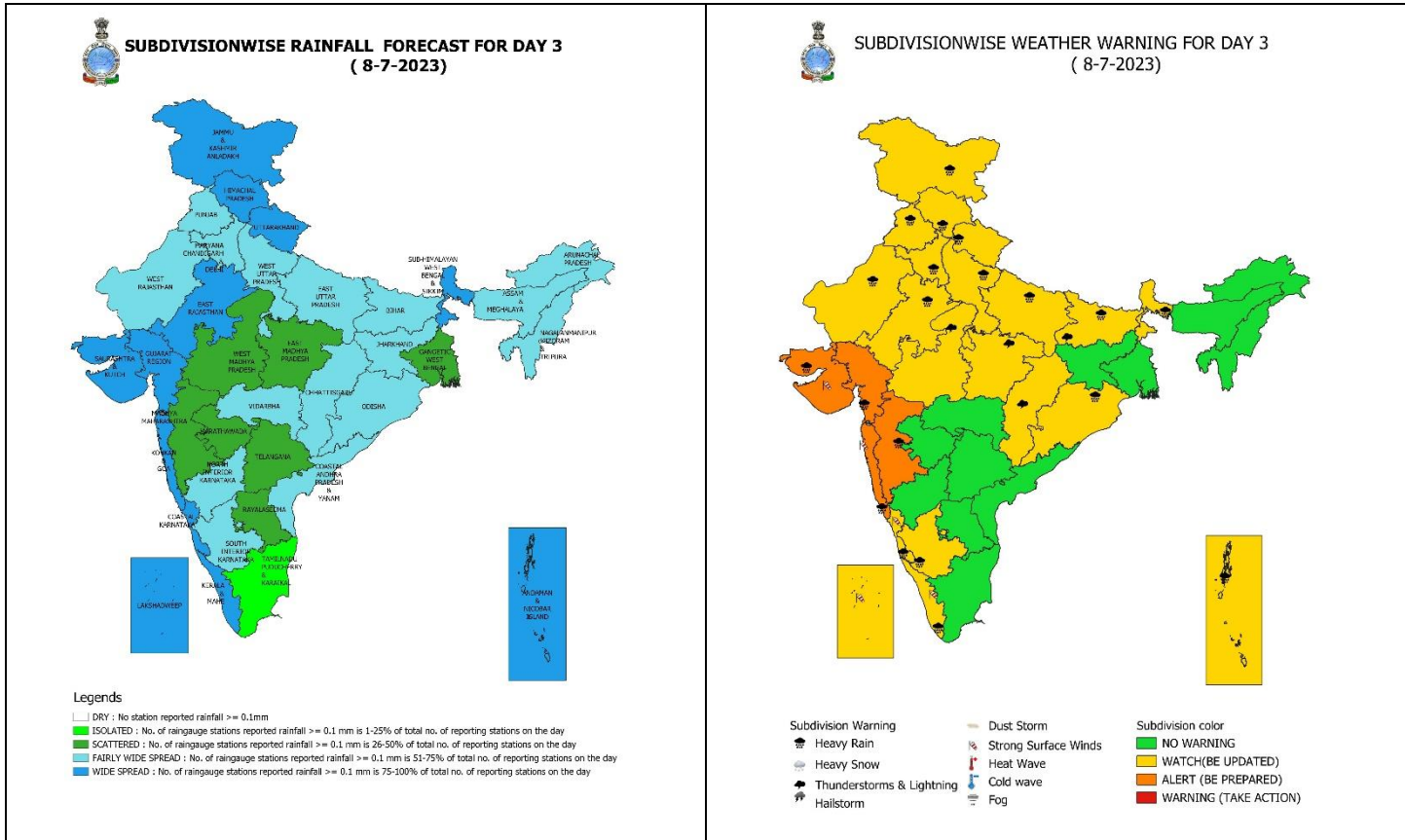
Subdivision color

- NO WARNING
- WATCH(BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)

07 July (Day 2):

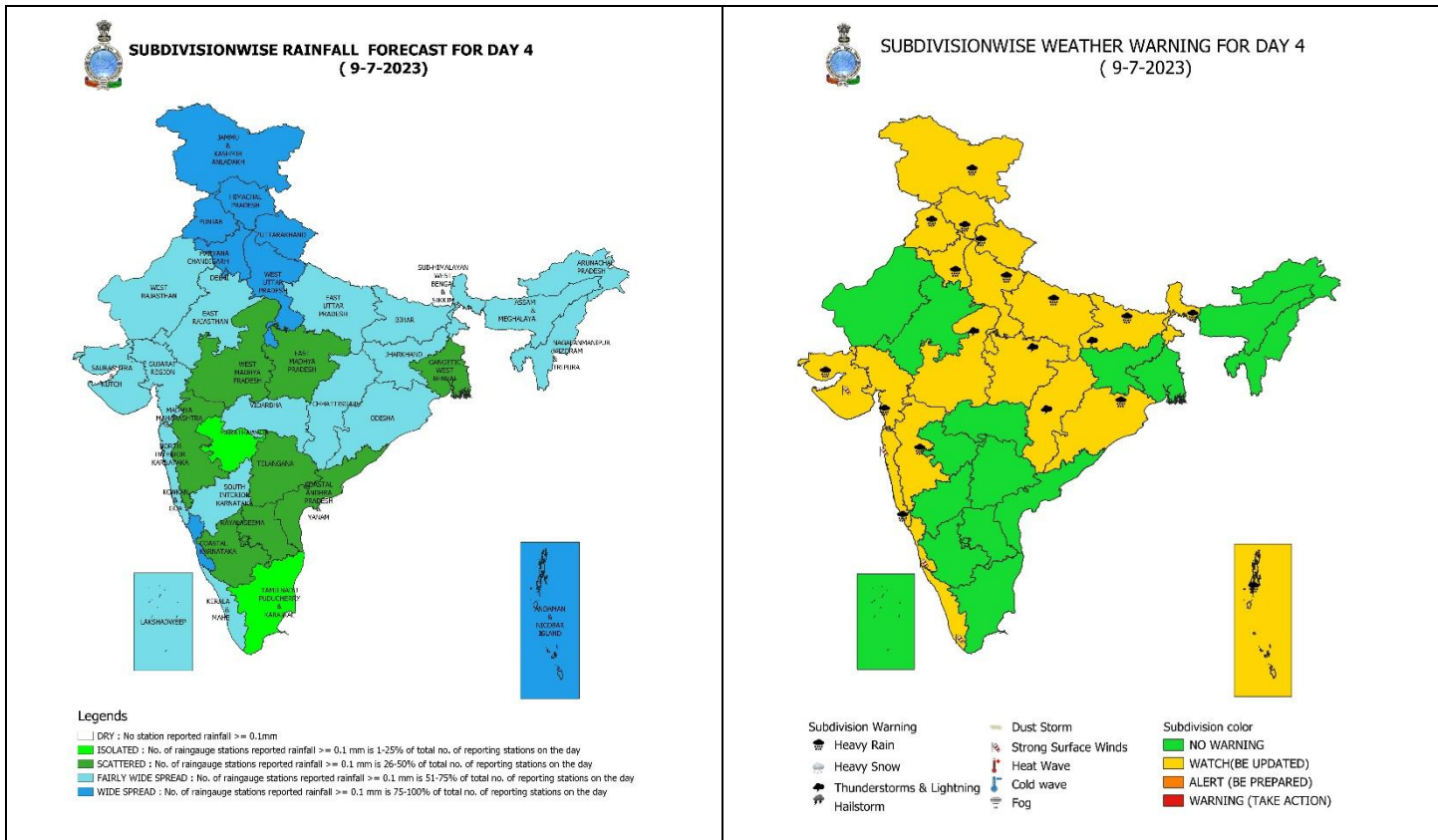
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Gujarat state; **heavy to very heavy rainfall** at isolated places over Konkan & Goa, Madhya Maharashtra, East Rajasthan, West Madhya Pradesh; **heavy rainfall** at isolated places over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalaya West Bengal & Sikkim, Odisha, Jharkhand, West Uttar Pradesh, Uttarakhand, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Karnataka, Kerala & Mahe.
- ❖ **Thunderstorm with lightning** very likely at isolated places over Sub-Himalaya West Bengal & Sikkim, Bihar, Madhya Pradesh, Chhattisgarh, Vidarbha, Telangana and Karnataka.

Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south-west & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off Kerala-Karnataka-Maharashtra-Gujarat coasts, Gulf of Mannar, Lakshadweep area. Fishermen are advised not to venture into these areas.



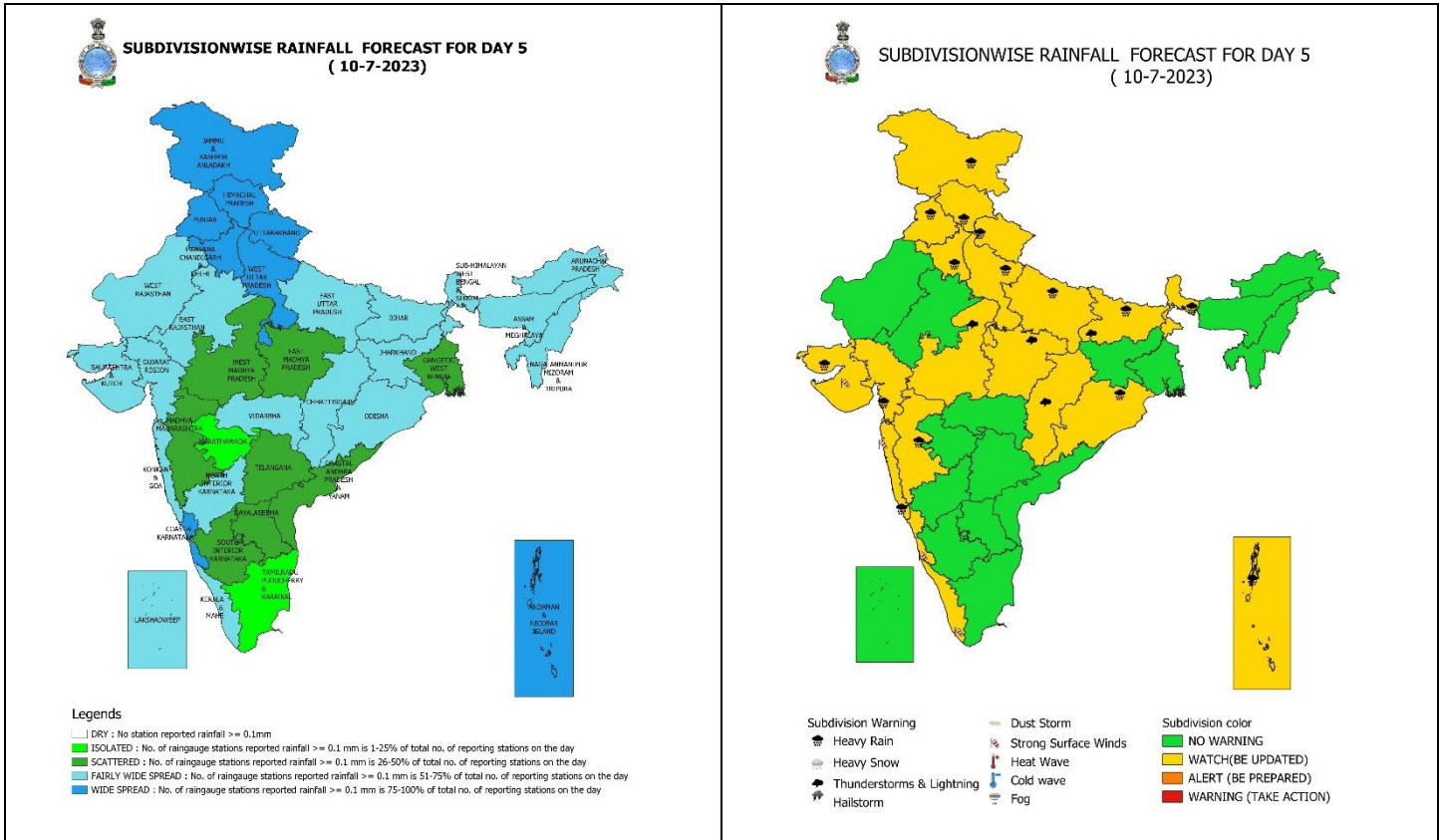
08 July (Day 3):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Saurashtra & Kutch; **Heavy to very heavy rainfall** at isolated places over Gujarat region, Madhya Maharashtra, Konkan & Goa, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalaya West Bengal & Sikkim, Odisha, Bihar, West Uttar Pradesh, Uttarakhand, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Coastal & South Interior Karnataka.
- ❖ **Thunderstorm with lightning** likely at isolated places over Bihar, Madhya Pradesh and Chhattisgarh.
- ❖ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south-west & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off north Kerala-Karnataka-Maharashtra-Gujarat coasts, Gulf of Mannar, Lakshadweep area. Fishermen are advised not to venture into these areas.



09 July (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalaya West Bengal & Sikkim, Odisha, Bihar, West Uttar Pradesh, Gujarat state, Konkan & Goa and Madhya Maharashtra.
 - ❖ **Thunderstorm with lightning** likely at isolated places over Bihar, Madhya Pradesh and Chhattisgarh.
- Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south-west & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off north Kerala-Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.

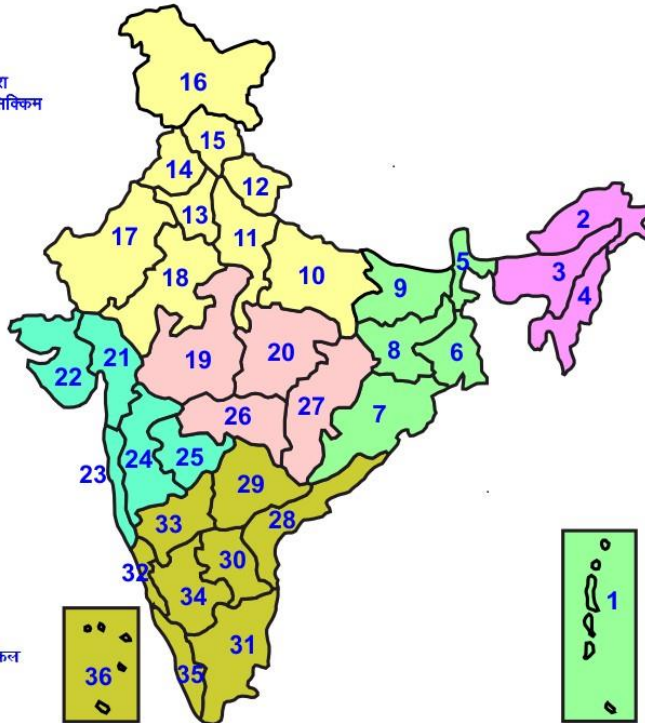


10 July (Day 5):

- ❖ **Heavy rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Andaman & Nicobar Islands, Sub-Himalaya West Bengal & Sikkim, Odisha, Bihar, West Uttar Pradesh, Gujarat state, Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm with lightning** likely at isolated places over Bihar, Madhya Pradesh and Chhattisgarh.
- ❖ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south-west & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off north Kerala-Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & 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. Vidharbha
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)

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599

(Service to the Nation since 1875)

LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

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



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 118-165 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 color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599

(Service to the Nation since 1875)