



Wednesday, July 26, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features:

- The Well Marked Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts persists and the associated cyclonic circulation extends upto middle tropospheric levels and tilting southwest wards with height. It is likely to move slowly northwestwards across north Andhra Pradesh-south Odisha coasts. The Western end of the monsoon trough, is very likely to shift further northwards, gradually during next 2-3 days.
- The Monsoon Trough at mean sea level passes through Bikaner, Kota, Guna, Jabalpur, Pendra Road, Jharsuguda, centre of the Well Marked Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal and thence east-southeastwards to Eastcentral Bay of Bengal in lower tropospheric levels.
- A cyclonic circulation lies over northwest Madhya Pradesh & adjoining east Rajasthan and in lower tropospheric levels.
- A cyclonic circulation lies over south Pakistan & neighbourhood in lower tropospheric levels.
- The shear zone now runs roughly along Lat. 17° N in middle tropospheric levels.
- An off-shore trough at mean sea level runs from south Konkan coast to north Kerala coast.
- A Western Disturbance is seen as a trough in middle tropospheric westerlies roughly along Long. 67°E to the north of 30°N.

Weather Forecast and Warning:

Northwest India: Light/Moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, Punjab, Haryana and West Uttar Pradesh during 26th-29th; over Himachal Pradesh during 26th-28th; over East Uttar Pradesh on 28th & 29th; over East Rajasthan during 26th-27th; over West Rajasthan on 26th and Jammu and Kashmir on 26th & 27th July, 2023.

Isolated very heavy rainfall also likely over Himachal Pradesh on 26th & 27th; over Uttarakhand on 26th & 28th; over Haryana and West Uttar Pradesh on 26th July, 2023.

Central India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over East Madhya Pradesh, Vidarbha and Chhattisgarh during 26th-28th and over West Madhya Pradesh on 26th July, 2023.

Isolated very heavy rainfall also likely over Vidarbha and Chhattisgarh on 26th & 27th and over East Madhya Pradesh on 27th July, 2023.

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra during 26th-29th and **isolated heavy rainfall** over Gujarat Region during 26th-27th, 2023.

Isolated extremely heavy rainfall very likely over Konkan & Goa and ghat areas of Madhya Maharashtra on 26th July, 2023.

South India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe during 26th-27th; over Telangana during 26th-28th and over Coastal & North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal on 26th July, 2023.

Isolated very heavy rainfall likely over Karnataka during 26th-27th July, 2023.

Isolated extremely heavy rainfall very likely over Telangana during 26th-27th and over Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Rayalaseema on 26th July, 2023.

East India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Odisha during 26th-28th; Sub-Himalayan West Bengal & Sikkim on 27th & 28th July, 2023.

Isolated very heavy rainfall likely over Odisha on 26th July, 2023.

Light/moderate scattered to fairly widespread rainfall likely over Bihar from 28th July.

Northeast India: Light/moderate fairly widespread rainfall with **isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya during 26th to 29th and over Nagaland, Manipur, Mizoram & Tripura on 28th & 29th July, 2023.

Isolated very heavy rainfall likely over Arunachal Pradesh and Assam & Meghalaya on 27th & 28th July, 2023.

* 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

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Konkan & Goa, Madhya Maharashtra, Marathwada, Karnataka, Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Sub-Himalaya West Bengal & Sikkim ; **at many places** over Gangetic West Bengal, Gujarat state; **at a few places** over West Rajasthan, Assam & Meghalaya and **at isolated places** over Tamil Nadu, Puducherry & Karaikal, Vidarbha, East Rajasthan, Uttar Pradesh, Punjab, Uttarakhand, Madhya Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Andaman & Nicobar Islands.
- ❖ **Heavy rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): Heavy rainfall at isolated places over Madhya Maharashtra.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): **Madhya Maharashtra:** Mahabaleshwar-10, Nasik City-1; **Coastal Andhra Pradesh & Yanam:** Machilipatnam-6, Vijayawada-4, Tuni-2; **Coastal Karnataka:** Honavar-5, Karwar-1; **Kerala & Mahe:** Cannur-4, Kozhikode-2; **Konkan & Goa:** Ratnagiri-3, Mumbai, Mormugao, Harnai-2 each; **East Rajasthan:** Ajmer-3; **East Uttar Pradesh:** Bahraich-2; **West Rajasthan:** Barmer-1, Jaisalmer-1.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, Rajasthan, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Minimum Temperature Departures (as on 25-07-2023):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at isolated places over East Uttar Pradesh and East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Punjab; at many places over Bihar and Lakshadweep; at a few places over Himachal Pradesh, Haryana-Chandigarh-Delhi, West Uttar Pradesh and Chhattisgarh; at isolated places over West Madhya Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Odisha and Vidarbha. They are **below normal (-1.6°C to -3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Telangana and Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Today, **the lowest minimum temperature of 19.4°C** is reported at **Narsinghpur (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-07-2023):** Maximum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at many places over Bihar; at a few places over West Madhya Pradesh, Vidarbha, East Madhya Pradesh and at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over Sub-Himalaya West Bengal & Sikkim, Chhattisgarh; at many places over Gujarat Regi; at a few places over Odisha, Gangetic West Bengal, Punjab; at isolated places over Tamil Nadu, Puducherry & Karaikal. They are markedly below normal (**-5.1°C or less**) at many places over Rayalaseema; at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over, North Interior Karnataka, West Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at most places over South Interior Karnataka; at a few places over Madhya Maharashtra; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **below normal (-1.6°C to -3.0°C)** at many places over Kerala & Mahe; at a few places over Andaman & Nicobar Islands and **near normal** over rest parts of the country. Today, **the highest maximum temperature of 37.6°C** is reported at **Rewa (East Madhya Pradesh)**.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Well Marked Low Pressure Area** over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts persists with the associated cyclonic circulation extending upto 7.6 km above mean sea level. It is likely to move slowly northwestwards across north Andhra Pradesh-south Odisha coasts.
- ❖ The Monsoon Trough at mean sea level now passes through Bikaner, Kota, Guna, Jabalpur, Pendra Road, Jharsuguda, centre of the **Well Marked Low Pressure Area** over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts and thence east-southeastwards to Eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ❖ The cyclonic circulation over northwest Madhya Pradesh & adjoining East Rajasthan extending upto 3.1 km above mean sea level tilting southwards with height persists.
- ❖ The shear zone roughly along Lat. 17° N between 5.8 km & 7.6 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level from south Konkan coast to north Kerala coast persists.
- ❖ The cyclonic circulation over south Pakistan & neighbourhood extending upto 3.1 km above mean sea level persists.
- ❖ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 67°E to the north of 30°N persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 30th 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

- ❖ Fairly widespread to widespread light/moderate rainfall likely over west coast, northwest, east and central India and isolated to scattered rainfall over rest parts of the country.



Table-1

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

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

Fig. 1: Maximum Temperatures Dated 25.07.2023

Fig. 2: Departure of Maximum Temp. Dated 25.07.2023

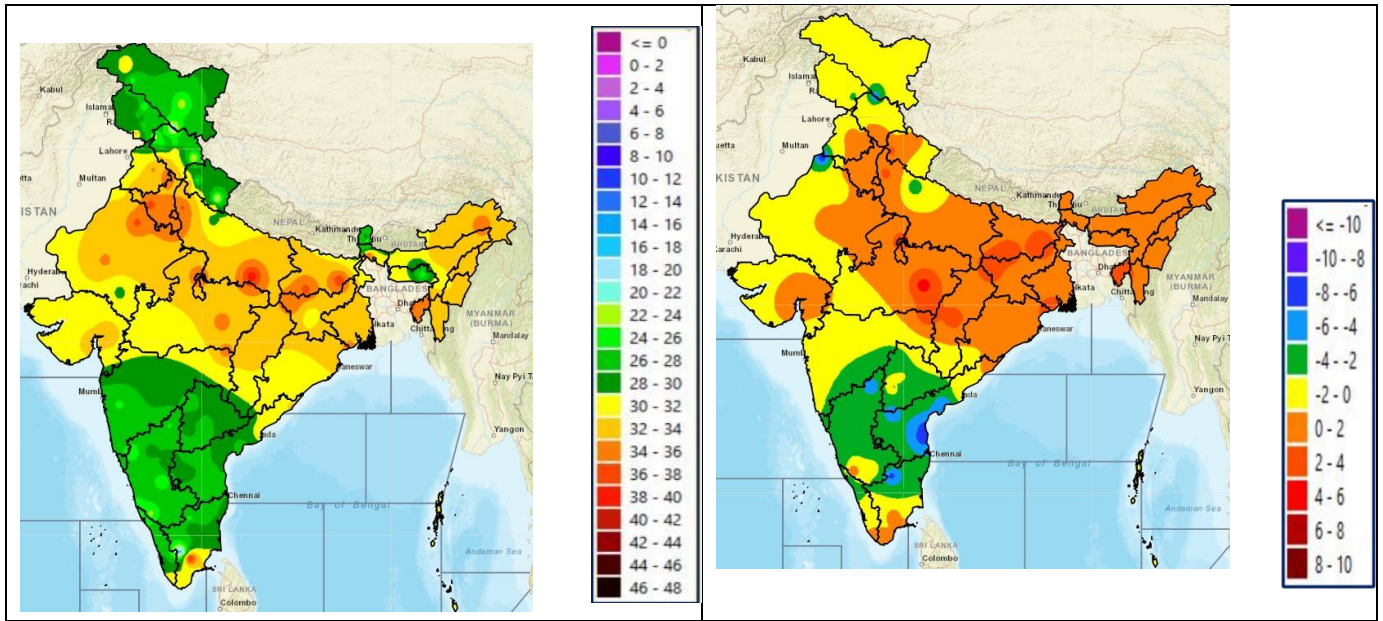


Fig. 3: Minimum Temperatures Dated 25.07.2023

Fig. 4: Departure of Minimum Temp. Dated 25.07.2023

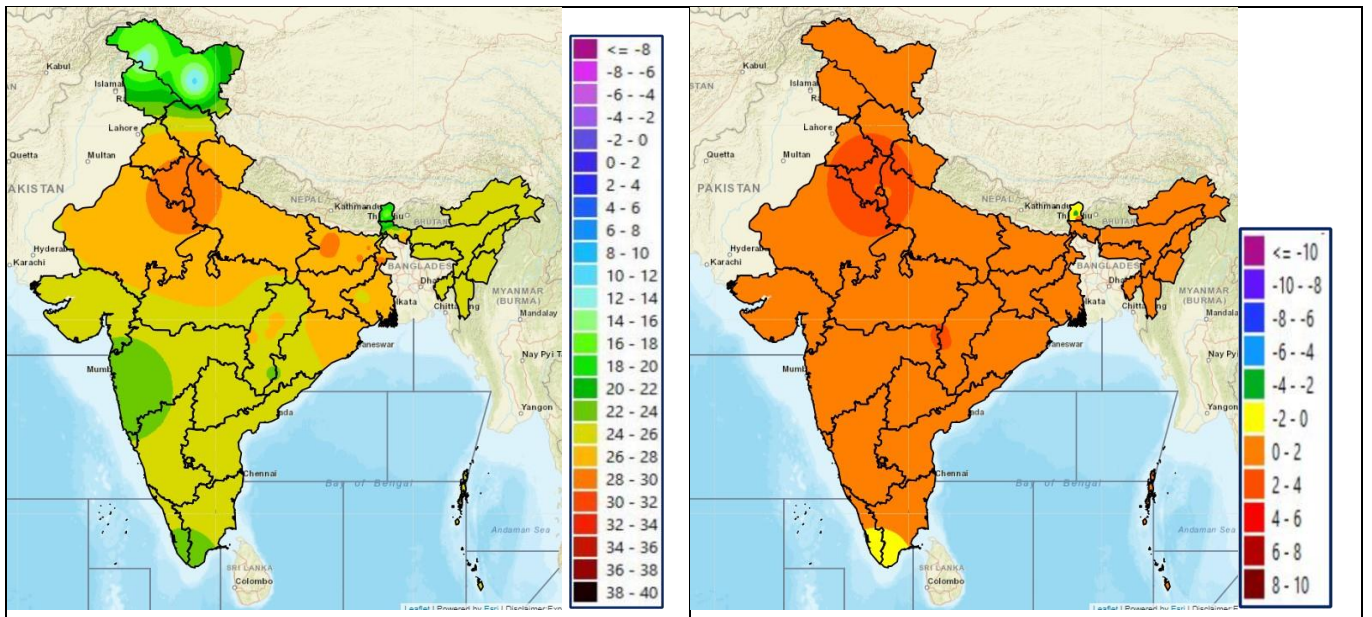
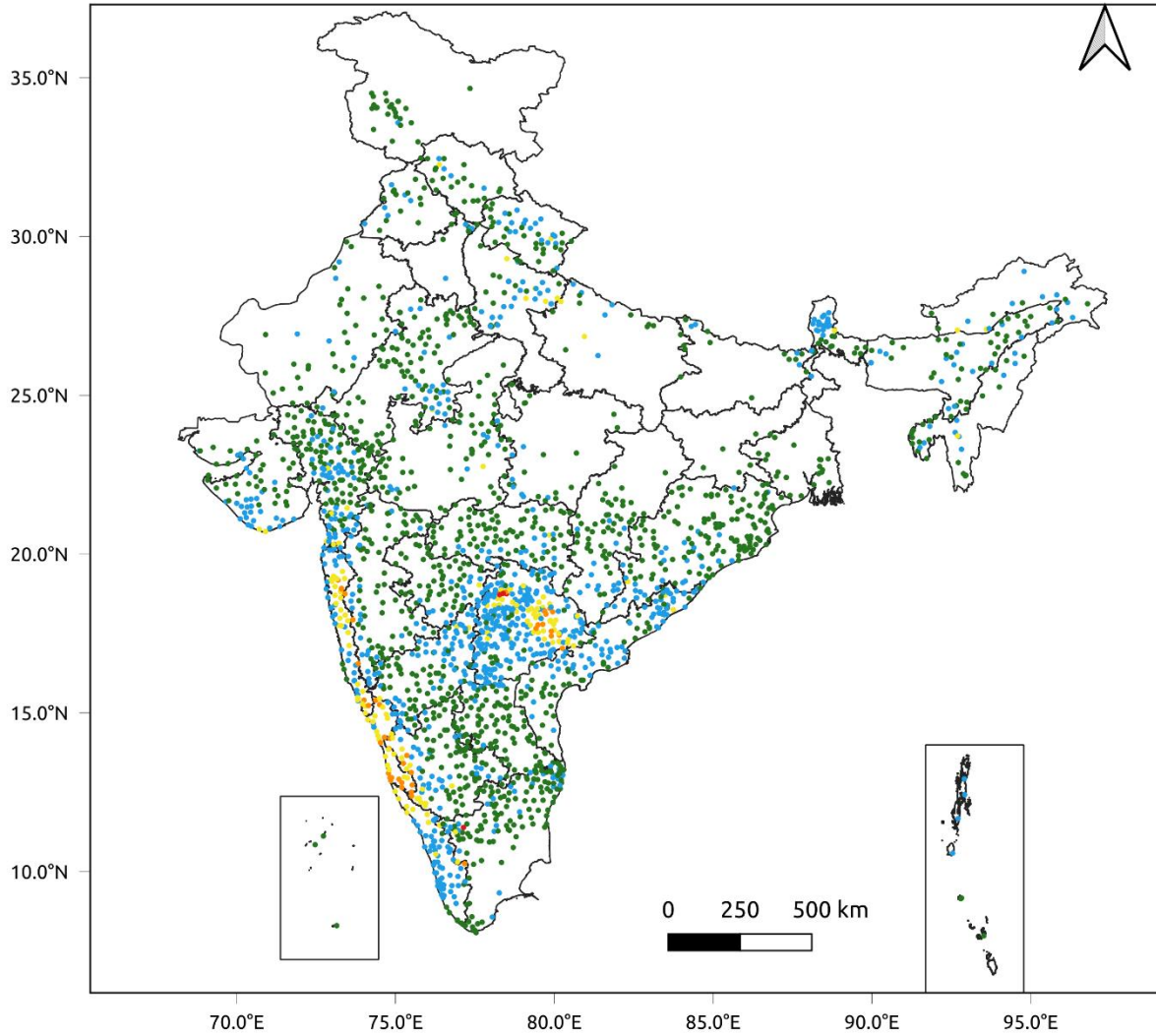


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

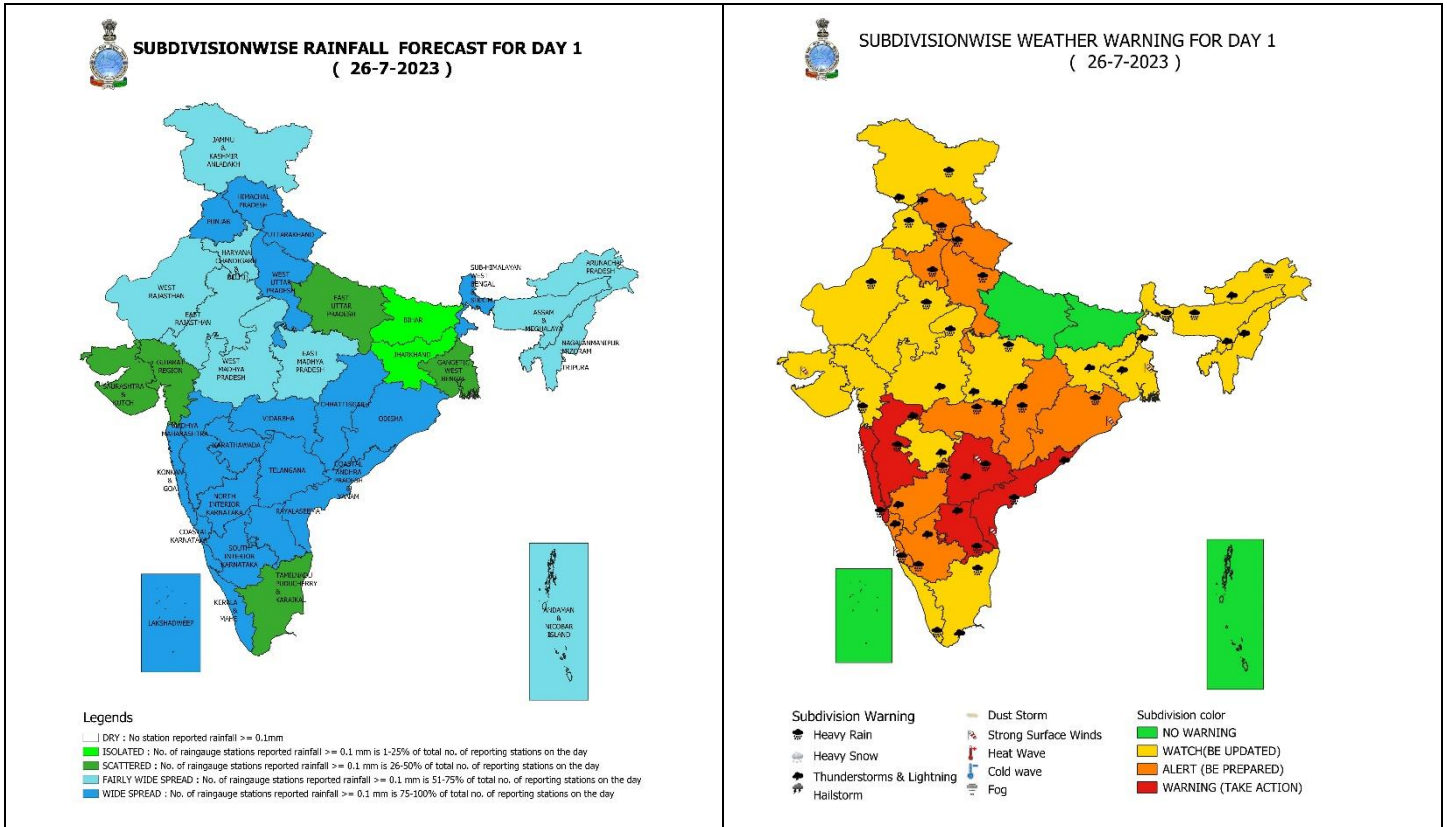


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 24-7-2023 to 0830 IST of 25-7-2023



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)

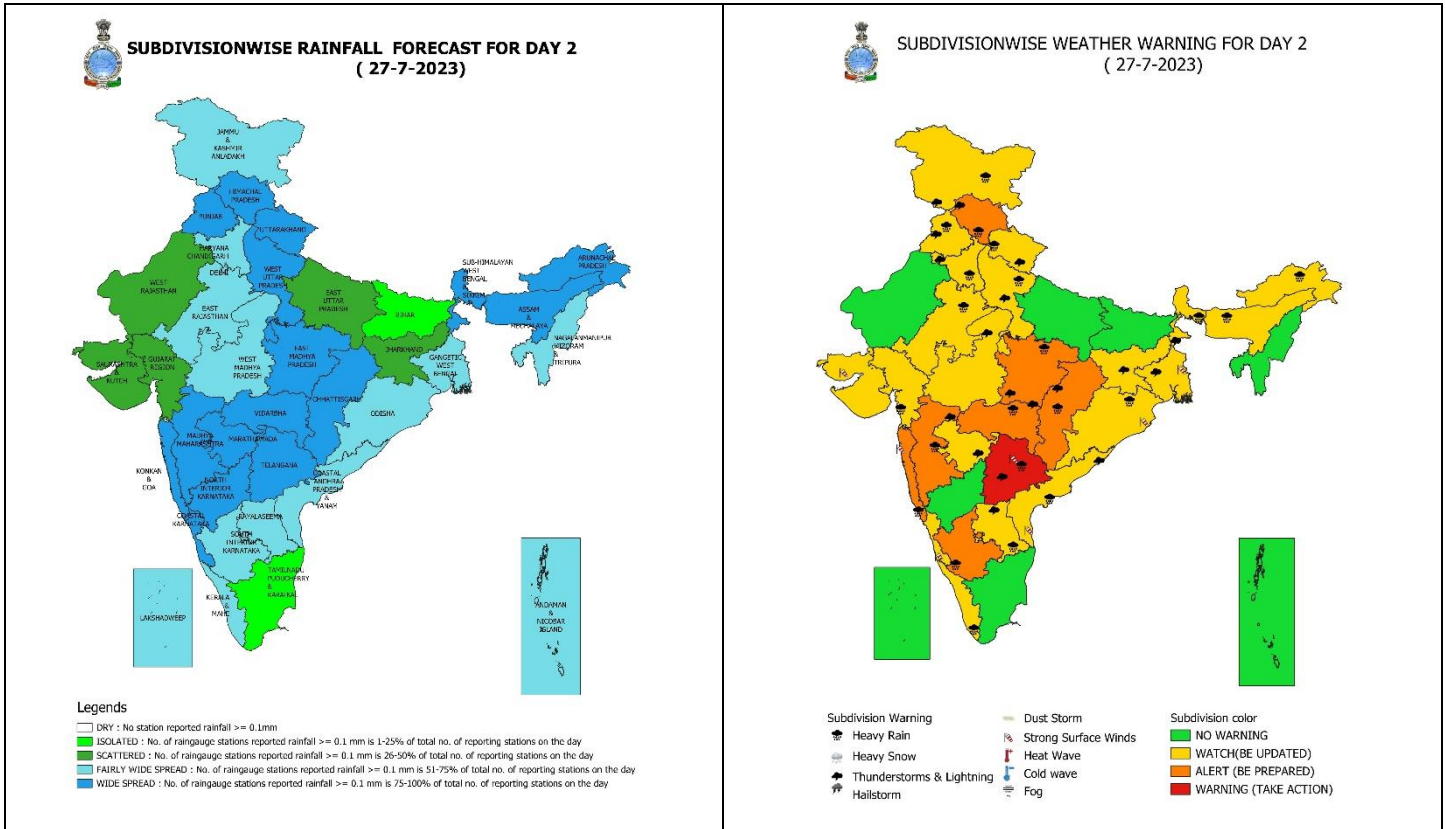


26 July (Day 1):

- ❖ **Heavy to very heavy rainfall at a few places with extremely heavy falls** very likely at isolated places over Konkan & Goa; **Heavy to very heavy rainfall with extremely heavy falls** at isolated places over ghat areas of Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh, West Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, Karnataka; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Madhya Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Madhya Maharashtra, Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Central & adjoining Southwest Arabian Sea and wind speed reaching 55-65 kmph gusting to 75 kmph over Westcentral & adjoining Southwest Arabian Sea. **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** along & off south Gujarat, Maharashtra, Karnataka-north Kerala coasts and Gulf of Mannar. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over Westcentral, adjoining Northwest & Eastcentral Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts and wind speed reaching 40-45 kmph gusting to 55 kmph over Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

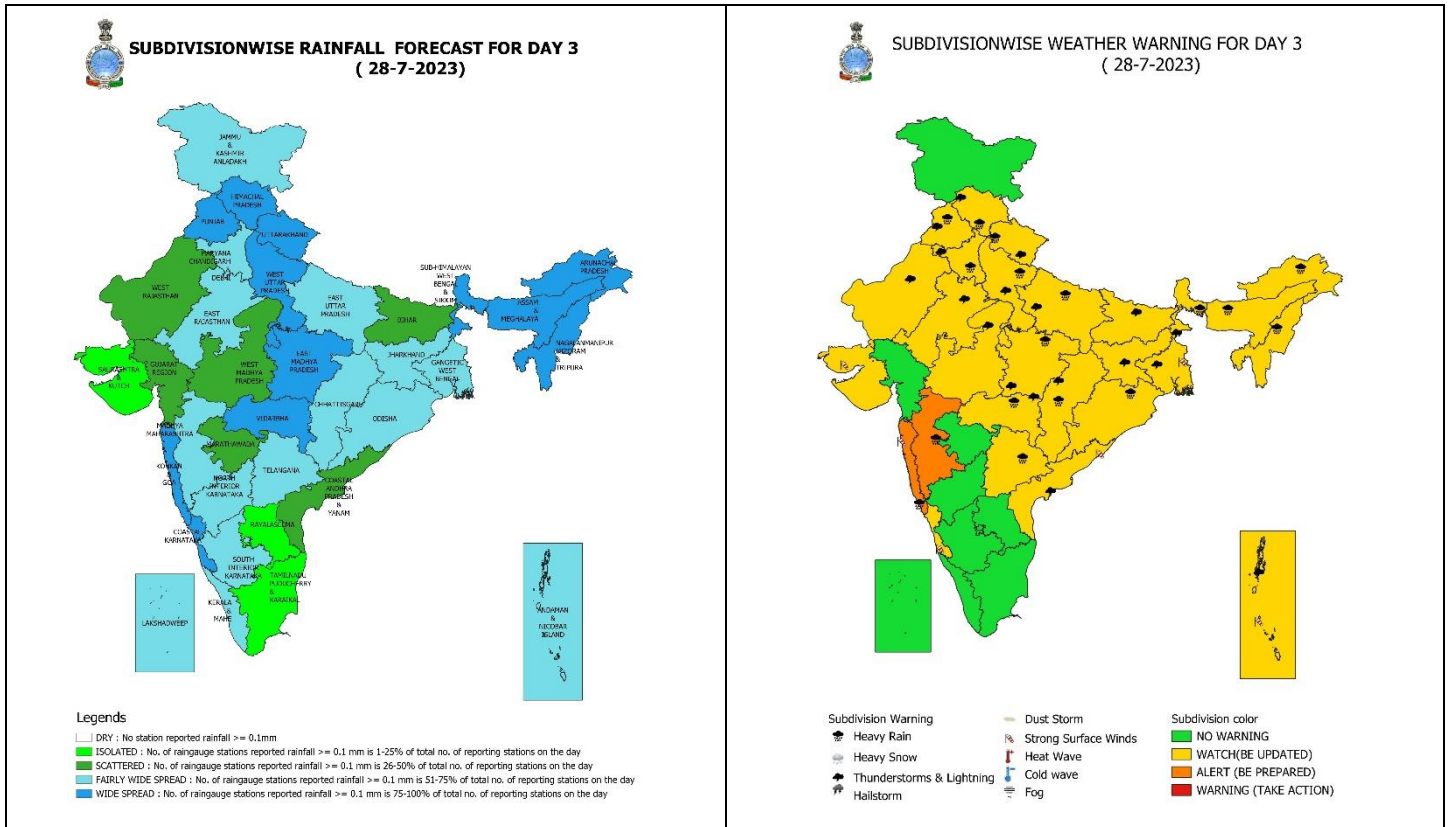
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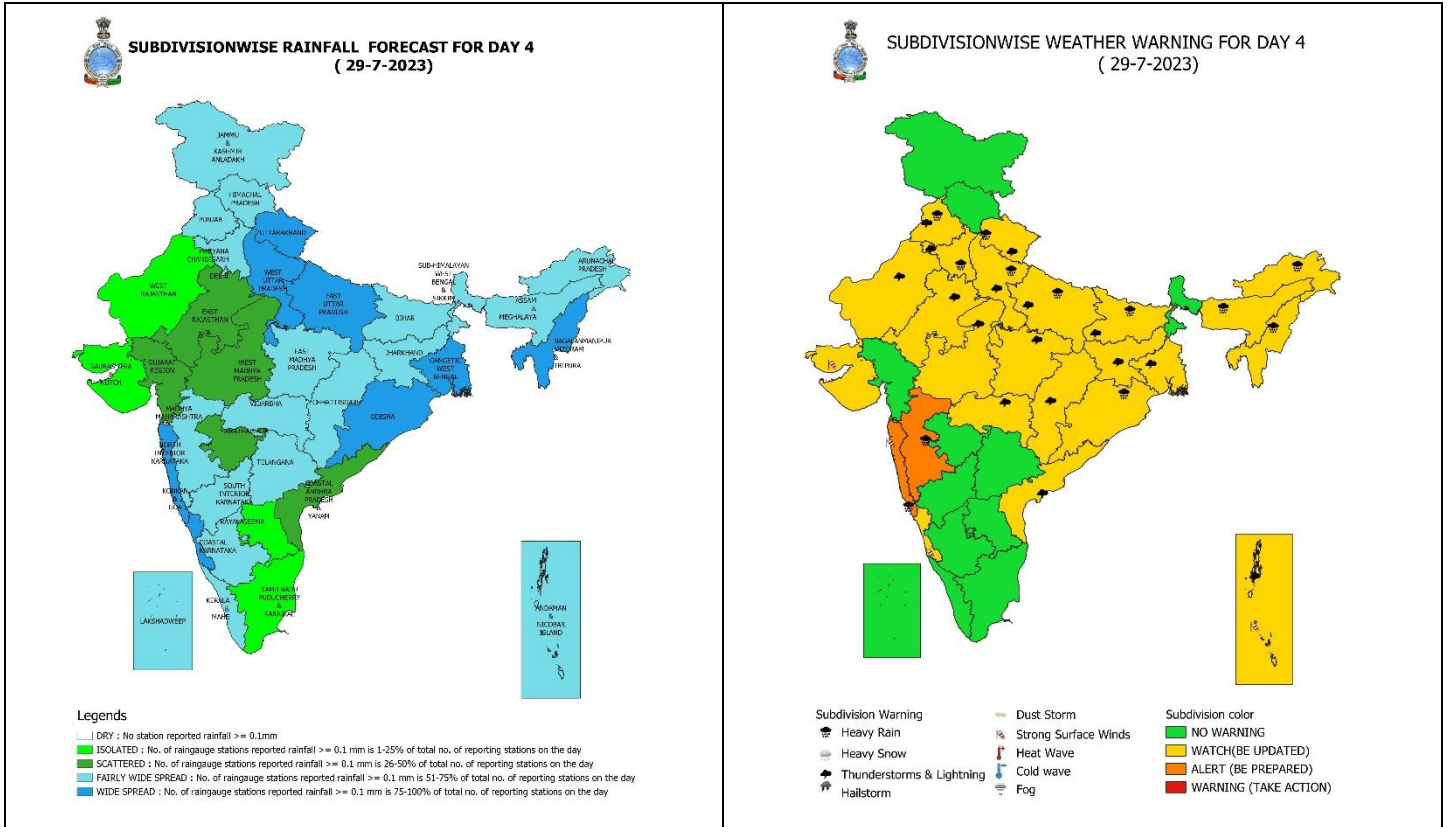
27 July (Day 2):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Telangana; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, South Interior Karnataka; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, Haryana-Chandigarh, West Uttar Pradesh, East Rajasthan, Sub-Himalaya West Bengal & Sikkim, Odisha, Gujarat Region, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Marathwada and Madhya Maharashtra.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Central & adjoining Southwest Arabian Sea and wind speed reaching 55-65 kmph gusting to 75 kmph over Westcentral & adjoining Southwest Arabian Sea. **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** along & off Gujarat, Maharashtra, Karnataka coasts and Gulf of Mannar. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over Westcentral, adjoining Northwest & Eastcentral Bay ay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts and wind speed reaching 40-45 kmph gusting to 55 kmph over Southwest & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



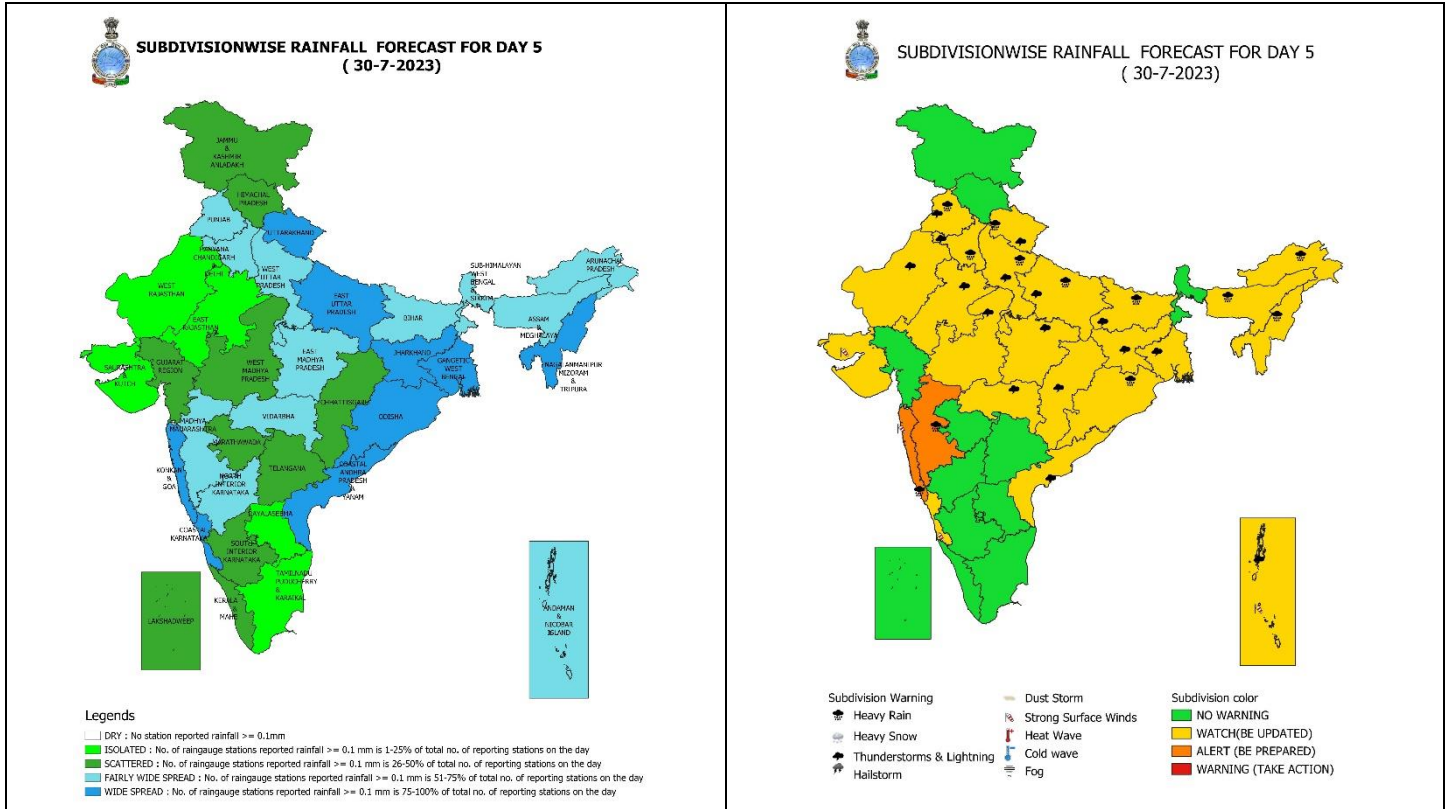
28 July (Day 3):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa; **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalaya West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram & Tripura and Telangana.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** likely at isolated places over Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand and West Bengal & Sikkim.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Central & adjoining Southwest Arabian Sea and wind speed reaching 55-65 kmph gusting to 75 kmph over Westcentral & adjoining Southwest Arabian Sea. **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** along & off south Gujarat, Maharashtra, Karnataka coasts and Gulf of Mannar. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over Westcentral, adjoining Northwest & Eastcentral Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts and wind speed reaching 40-45 kmph gusting to 55 kmph over Southwest & adjoining Southeast Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.



29 July (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **heavy rainfall** at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh, Uttar Pradesh, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand and Gangetic West Bengal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Central & adjoining Southwest Arabian Sea and wind speed reaching 55-65 kmph gusting to 75 kmph over Westcentral & adjoining Southwest Arabian Sea. **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** along & off south Gujarat, Maharashtra, Karnataka coasts and Gulf of Mannar. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over Westcentral, adjoining Northwest & Eastcentral Bay ay of Bengal and wind speed reaching 40-45 kmph gusting to 55 kmph over Southwest & adjoining Southeast Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.



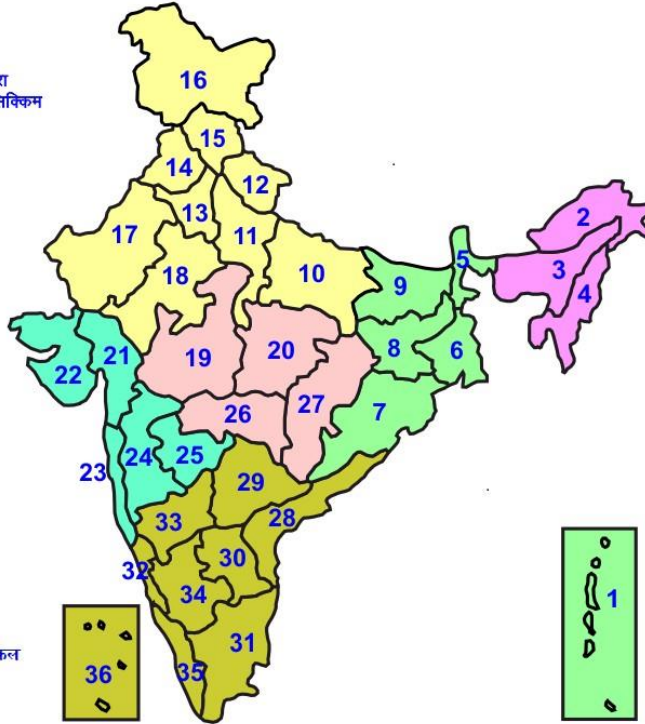
30 July (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **heavy rainfall** at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh, Uttar Pradesh, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand and Gangetic West Bengal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** over Central & adjoining Southwest Arabian Sea and wind speed reaching 55-65 kmph gusting to 75 kmph over Westcentral & adjoining Southwest Arabian Sea. **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** along & off south Gujarat, Maharashtra, Karnataka coasts and Gulf of Mannar. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over Westcentral, adjoining Northwest & Eastcentral Bay ay of Bengal and wind speed reaching 40-45 kmph gusting to 55 kmph over Southwest & adjoining Southeast Bay of Bengal and Andaman Sea. 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 ओडिशा
- 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 मराठावाड़ा
- 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".

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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 Strom: Wind speed > 220 kmph (> 119 knots)

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