



Tuesday, July 25, 2023  
Time of Issue: 0830 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Significant Weather features:

- ❖ Yesterday's Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts has intensified into a Well Marked Low Pressure Area over the same region today morning. It is likely to concentrate into a Depression over the same region during next 24 hours. Subsequently, it is likely to move slowly west-northwestwards across north Andhra Pradesh-south Odisha coasts.
- ❖ The Monsoon Trough has shifted northwards and now passes through Jaisalmer, Kota, Guna, Raipur, Puri, 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.
- ❖ A cyclonic circulation lies over northwest Madhya Pradesh in lower & middle tropospheric levels.
- ❖ A cyclonic circulation lies over Kutch and neighbourhood and extends upto 3.1 km above mean sea level.
- ❖ The shear zone lies roughly along Lat. 20° N in middle tropospheric levels.

#### Weather Forecast and Warning:

**Northwest India:** Light/Moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, Punjab and Uttar Pradesh during 25<sup>th</sup>-29<sup>th</sup>; over Himachal Pradesh and East Rajasthan during 25<sup>th</sup>-27<sup>th</sup>; over Haryana during 26<sup>th</sup>-29<sup>th</sup>; over West Rajasthan on 25<sup>th</sup> & 26<sup>th</sup> and Jammu and Kashmir on 26<sup>th</sup> & 27<sup>th</sup> July, 2023.

**Isolated very heavy rainfall also likely over Himachal Pradesh and Uttarakhand on 26<sup>th</sup> & 27<sup>th</sup> and over Haryana, West Uttar Pradesh and East Rajasthan on 26<sup>th</sup> July, 2023.**

**Central India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over Vidarbha and Chhattisgarh during 25<sup>th</sup>-29<sup>th</sup>; West Madhya Pradesh during 27<sup>th</sup> - 29<sup>th</sup>; and East Madhya Pradesh on 28<sup>th</sup> July, 2023.

**Isolated very heavy rainfall also likely over Vidarbha and Chhattisgarh on 26<sup>th</sup> & 27<sup>th</sup> 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 during 25<sup>th</sup> to 29<sup>th</sup> and over ghat areas of Madhya Maharashtra during 25<sup>th</sup> to 28<sup>th</sup> July, 2023.

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

**South India:** Light/moderate fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall** very likely over Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka during 25<sup>th</sup>-28<sup>th</sup> and isolated **heavy rainfall** over Rayalaseema and North Interior Karnataka during 25<sup>th</sup>-26<sup>th</sup>; over South Interior Karnataka; Kerala & Mahe during 25<sup>th</sup>-27<sup>th</sup> and over Tamil Nadu, Puducherry & Karaikal on 25<sup>th</sup> June, 2023.

**Isolated extremely heavy rainfall very likely over Coastal Andhra Pradesh & Yanam and Coastal Karnataka on 26<sup>th</sup> and over Telangana on 25<sup>th</sup> to 27<sup>th</sup> July, 2023.**

**East India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Odisha during 25<sup>th</sup>-29<sup>th</sup>; Sub-Himalaya West Bengal & Sikkim on 27<sup>th</sup> & 28<sup>th</sup> July, 2023.

**Isolated very heavy rainfall likely over Odisha on 25<sup>th</sup> & 26<sup>th</sup> July, 2023.**

**Northeast India:** Light/moderate fairly widespread rainfall with **isolated heavy rainfall** very likely over and Arunachal Pradesh and Assam & Meghalaya during 25<sup>th</sup> to 29<sup>th</sup> and over Nagaland, Manipur, Mizoram & Tripura on 25<sup>th</sup>, 28<sup>th</sup> & 29<sup>th</sup> July, 2023.

**Isolated very heavy rainfall likely over Arunachal Pradesh and Assam & Meghalaya on 27<sup>th</sup> & 28<sup>th</sup> 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 Arunachal Pradesh, Coastal & North Interior Karnataka and Coastal Andhra Pradesh & Yanam; **at many places** over Odisha, Gujarat state, Konkan & Goa, Telangana, Rayalaseema, Madhya Maharashtra and Andaman & Nicobar Islands; **at a few places** over Assam & Meghalaya, Himachal Pradesh, Uttarakhand, East Rajasthan, Chhattisgarh, Marathwada and **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Uttar Pradesh, West Rajasthan, Madhya Pradesh, South Interior Karnataka, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **(in cm)**: Bajpe-12; Dapali, Kozikode-11; Vellarikkundu-10; Madgaom, Pillringome-8; Mullyar-7; Mahabaleshwar -6; Kohima and Mangalore -5 each; Hut Bay, Pasighat, Amritsar and Thrissur-4 each; Dharmsala, Goa, Dhubri and Alappuzha -3 each; Port Blair, Long Island, Jagdalpur, Kothagudam, Khammam, Chhindwara, Bareilly, New Kandla, Mahuva, Daman, Santacruz, Karwar, Cannur, Karipur, Kakinada and Itanagar – 2 each; Maya Bandar, Jorhat, Gola Ghat, Gopalpur, Nandigama, Vijaywada, Machilipatnam, Medak, Keshod, Vallabh Vidyanagar, Tiruppattur, Nellore, Kottayam, Panallur, Palakkad, Aminidivi, Fursatganj, Diamond Harbour, North Lakhimpur and Kozhikode -1 each.
- ❖ **Heavy rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, West Uttar Pradesh, Telangana, South Interior Karnataka, Kerala & Mahe and Madhya Maharashtra.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Assam & Meghalaya, Punjab, Haryana & Chandigarh and Chhattisgarh.
- ❖ **Minimum Temperature Departures (as on 24-07-2023)**: Minimum temperatures were **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 were **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. Yesterday, **the lowest minimum temperature of 19.4°C** was reported at **Narsinghpur (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 24-07-2023)**: Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over East Madhya Pradesh; at a few places over Nagaland, Manipur, Mizoram & Tripura, Bihar and East Uttar Pradesh and at isolated places over West Madhya Pradesh and Odisha; **above normal (1.6°C to 3.0°C)** at many places over West Bengal & Sikkim, Vidarbha, Chhattisgarh and Jharkhand; ; at a few places over Assam & Meghalaya and West Uttar Pradesh. They were markedly below normal **(-5.1°C or less)** at many places over Coastal Andhra Pradesh & Yanam; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Rayalaseema; at many places over Telangana; at a few places over Kerala & Mahe and at isolated places over Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Coastal Karnataka; at a few places over Saurashtra & Kutch and North Interior Karnataka and at isolated places over Konkan & Goa and South Interior Karnataka and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 39.0°C** was reported at **Banda (East Uttar Pradesh)**.

### Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts has intensified into a **Well Marked Low Pressure Area** over the same region and the associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to concentrate into a Depression over the same region during next 24 hours. Subsequently, it is likely to move slowly west-northwestwards across north Andhra Pradesh-south Odisha coasts.
- ❖ The Monsoon Trough at mean sea level now passes through Jaisalmer, Kota, Guna, Raipur, Puri, 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 between 3.1 km & 5.8 km above mean sea level tilting southwards with height persists.
- ❖ The shear zone roughly along Lat. 20° N between 3.1 & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over Kutch & neighbourhood extending upto 3.1 km above mean sea level persists.

### Weather Forecast for next 5 days (Upto 0830 hours IST of 30<sup>th</sup> 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	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul
		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	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	FWS	FWS	FWS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	FWS	WS	WS	WS	WS	FWS
6	GANGETIC WEST BENGAL	SCT	SCT	SCT	SCT	FWS	FWS	FWS
7	ODISHA	WS	WS	WS	FWS	FWS	FWS	FWS
8	JHARKHAND	SCT	SCT	SCT	SCT	FWS	FWS	FWS
9	BIHAR	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS
10	EAST UTTAR PRADESH	WS	SCT	SCT	WS	WS	WS	WS
11	WEST UTTAR PRADESH	WS	FWS	WS	WS	WS	FWS	WS
12	UTTARAKHAND	WS	WS	WS	WS	WS	WS	WS
13	HARYANA CHANDIGARH & DELHI	SCT	FWS	FWS	FWS	FWS	FWS	FWS
14	PUNJAB	WS	WS	WS	WS	FWS	FWS	FWS
15	HIMACHAL PRADESH	WS	WS	WS	WS	FWS	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	FWS	FWS	FWS	FWS	FWS	SCT	SCT
17	WEST RAJASTHAN	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	FWS	FWS	FWS	SCT	SCT	ISOL	SCT
19	WEST MADHYA PRADESH	FWS	FWS	FWS	FWS	SCT	SCT	WS
20	EAST MADHYA PRADESH	FWS	WS	WS	WS	FWS	FWS	WS
21	GUJARAT REGION	FWS	SCT	SCT	SCT	SCT	SCT	FWS
22	SAURASHTRA & KUTCH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	WS	WS	FWS	SCT	SCT	FWS
25	MARATHAWADA	FWS	WS	WS	FWS	SCT	SCT	FWS
26	VIDARBHA	WS	WS	WS	WS	FWS	FWS	WS
27	CHHATTISGARH	WS	WS	WS	FWS	SCT	SCT	WS
28	COASTAL ANDHRA PRADESH & YANAM	WS	WS	FWS	SCT	ISOL	ISOL	ISOL
29	TELANGANA	WS	WS	WS	FWS	FWS	FWS	SCT
30	RAYALASEEMA	WS	WS	SCT	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	WS	WS	WS	FWS	FWS	FWS	SCT
34	SOUTH INTERIOR KARNATAKA	WS	WS	FWS	FWS	FWS	FWS	ISOL
35	KERALA & MAHE	WS	WS	FWS	FWS	FWS	FWS	SCT
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	FWS	FWS	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

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Fig. 1: Maximum Temperatures Dated 24.07.2023

Fig. 2: Departure of Maximum Temp. Dated 24.07.2023

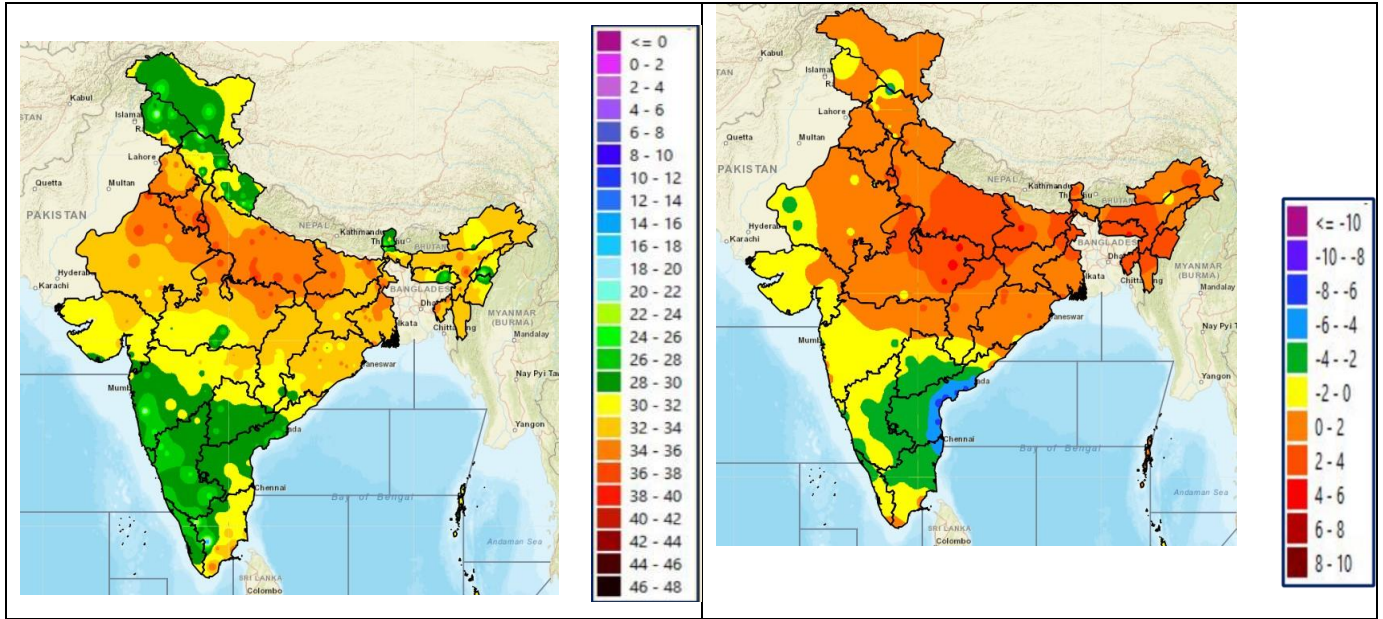
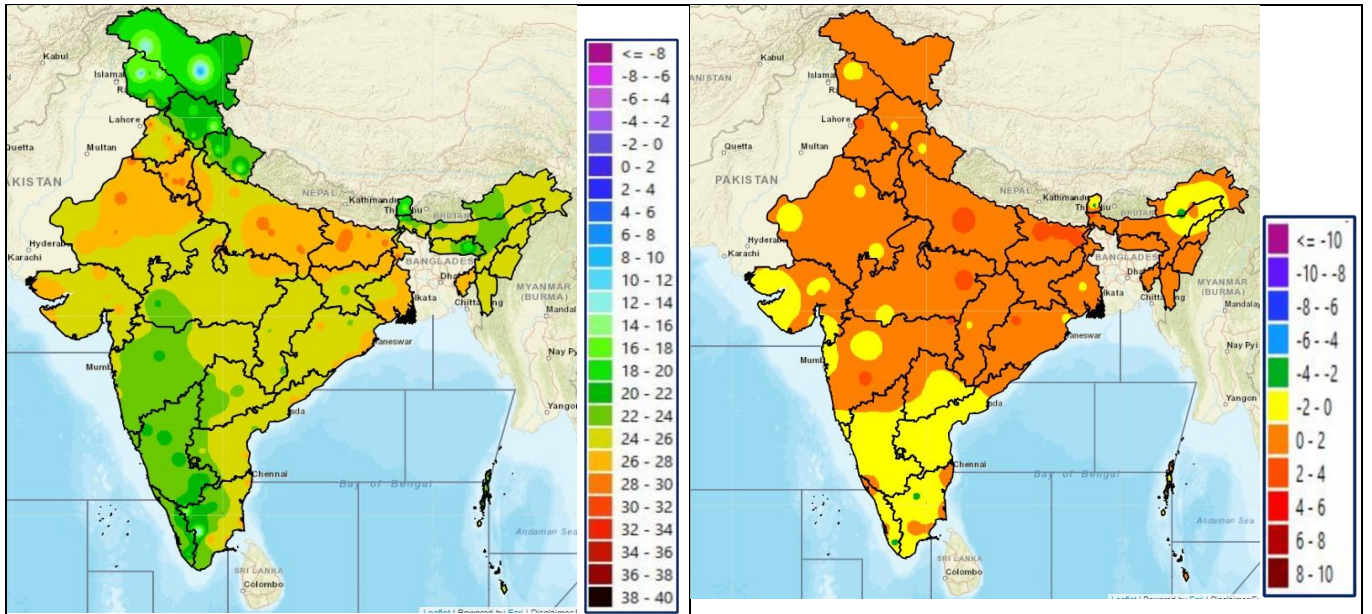


Fig. 3: Minimum Temperatures Dated 24.07.2023

Fig. 4: Departure of Minimum Temp. Dated 24.07.2023

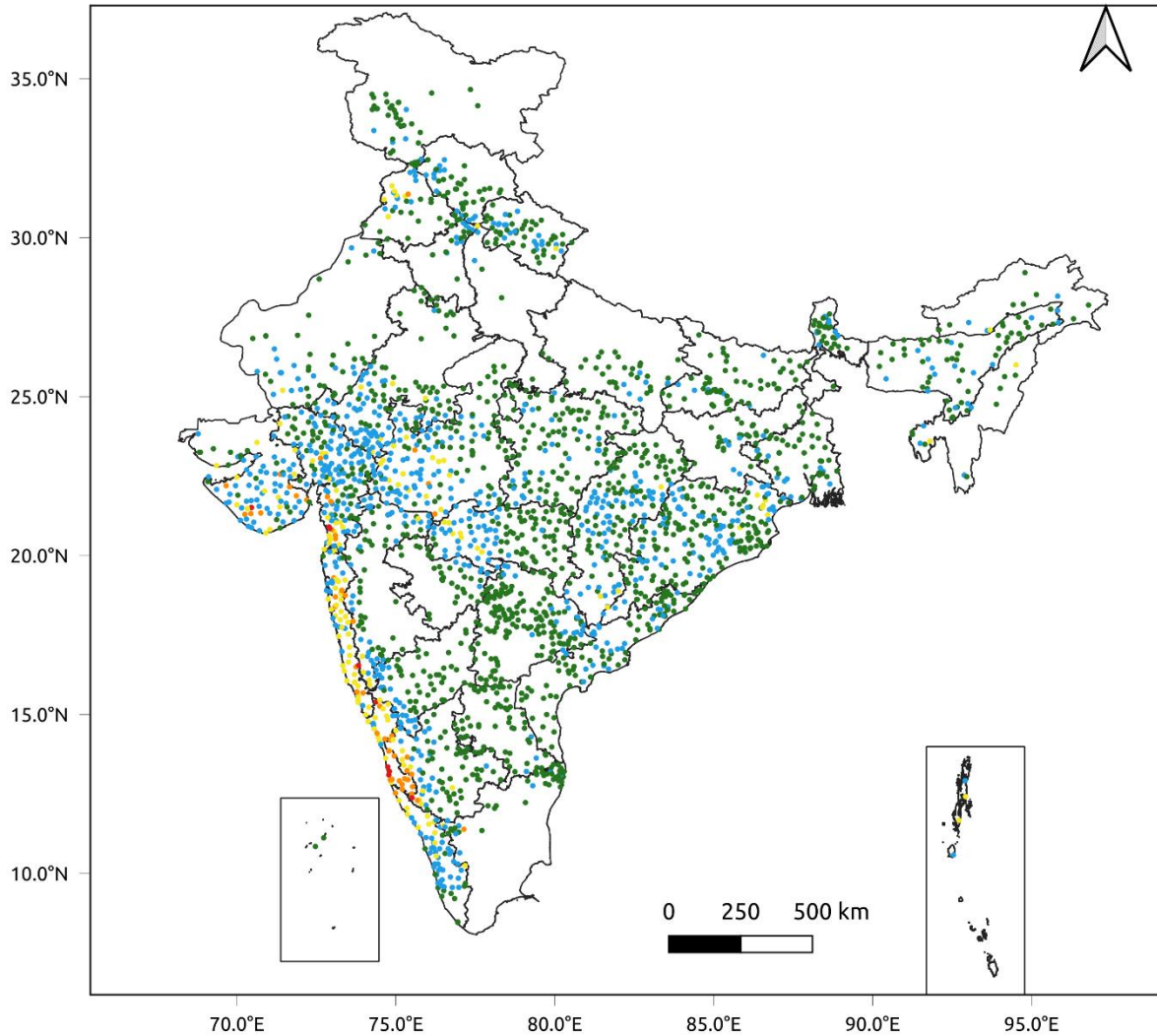


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**Fig. 5: Accumulated Rainfall (mm) during past 24 hours**

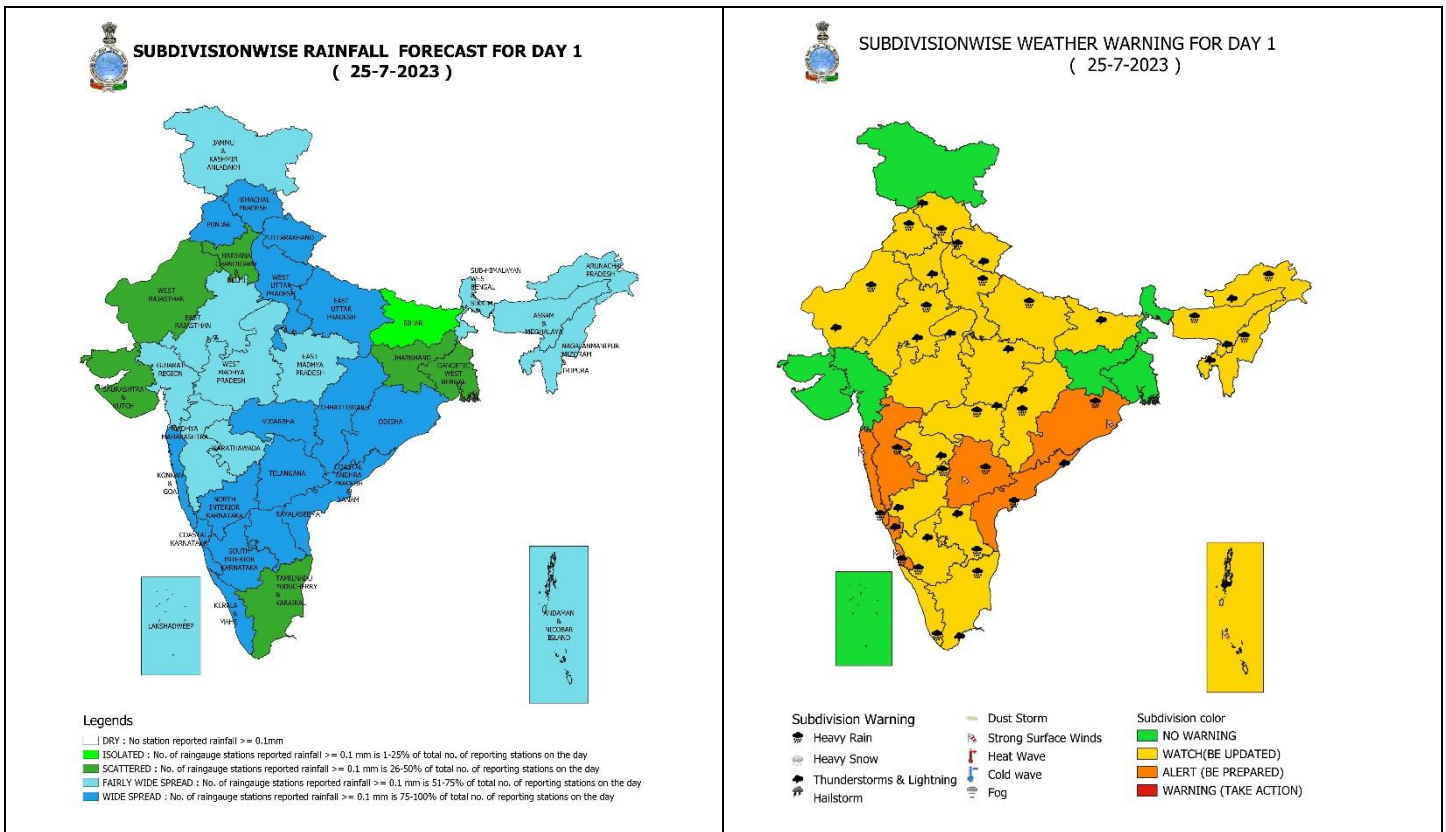


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 22-7-2023 to 0830 IST of 23-7-2023



## Legends

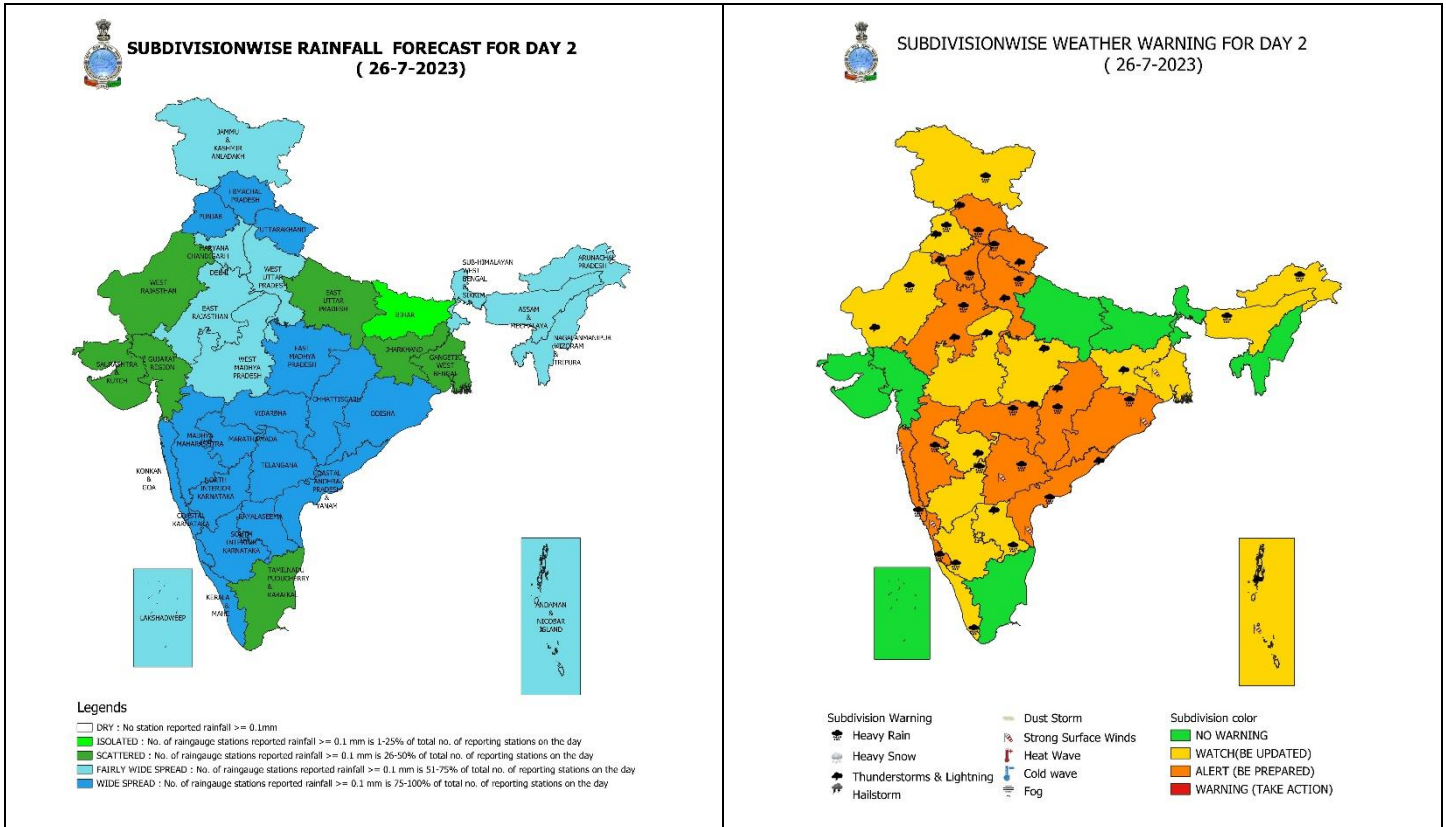
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)



**25 July (Day 1):**

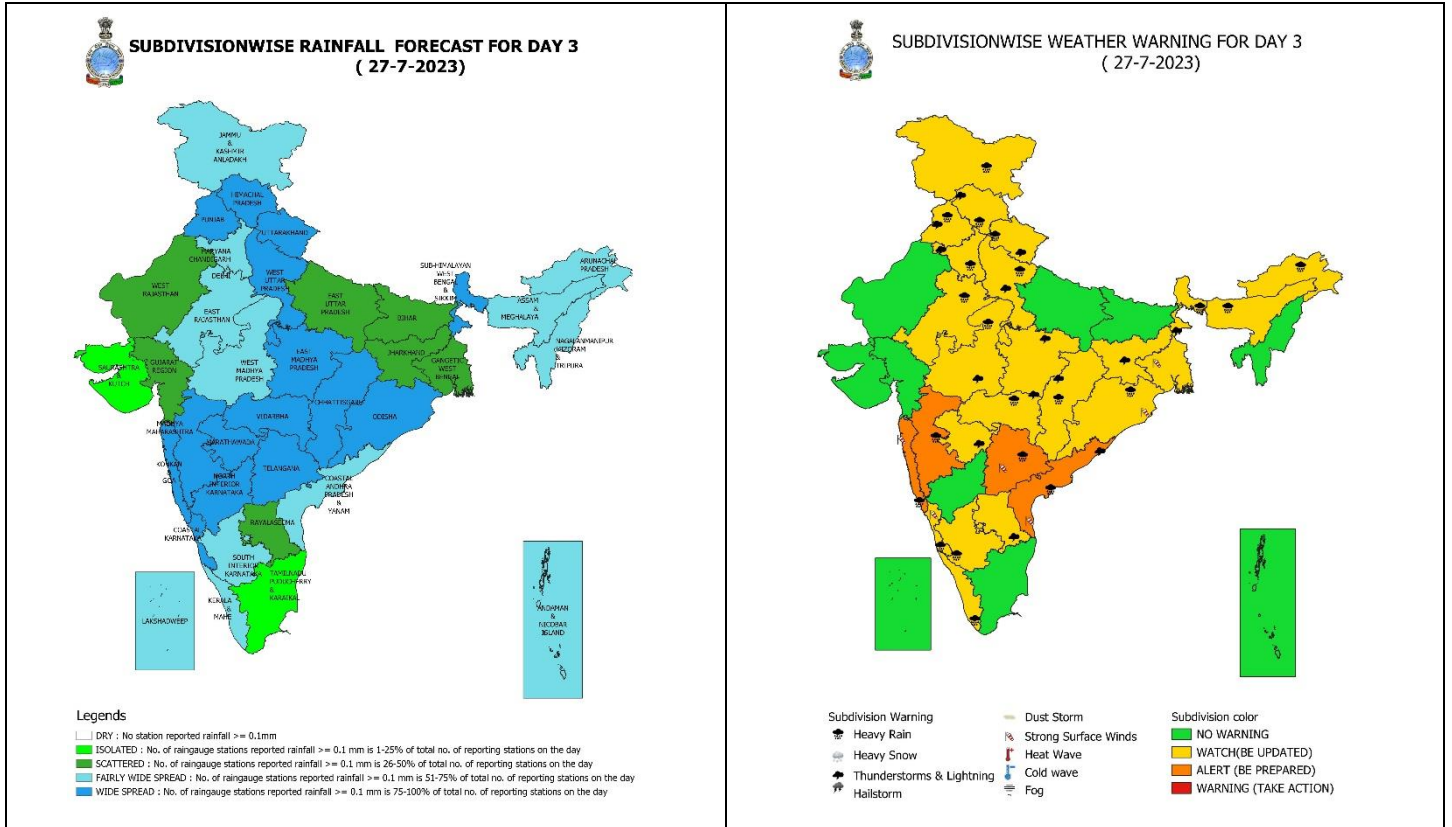
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Telangana; **Heavy to very heavy rainfall** at isolated places over Odisha, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Coastal Karnataka; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** very likely at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Bihar, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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 coasts and Gulf of Mannar. **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over Westcentral & adjoining Eastcentral Bay of Bengal and along & off Andhra Pradesh & adjoining south Odisha coasts and wind speed reaching 40-45 kmph gusting to 55 kmph over Southwest Bay of Bengal and Andaman Sea.



**26 July (Day 2):**

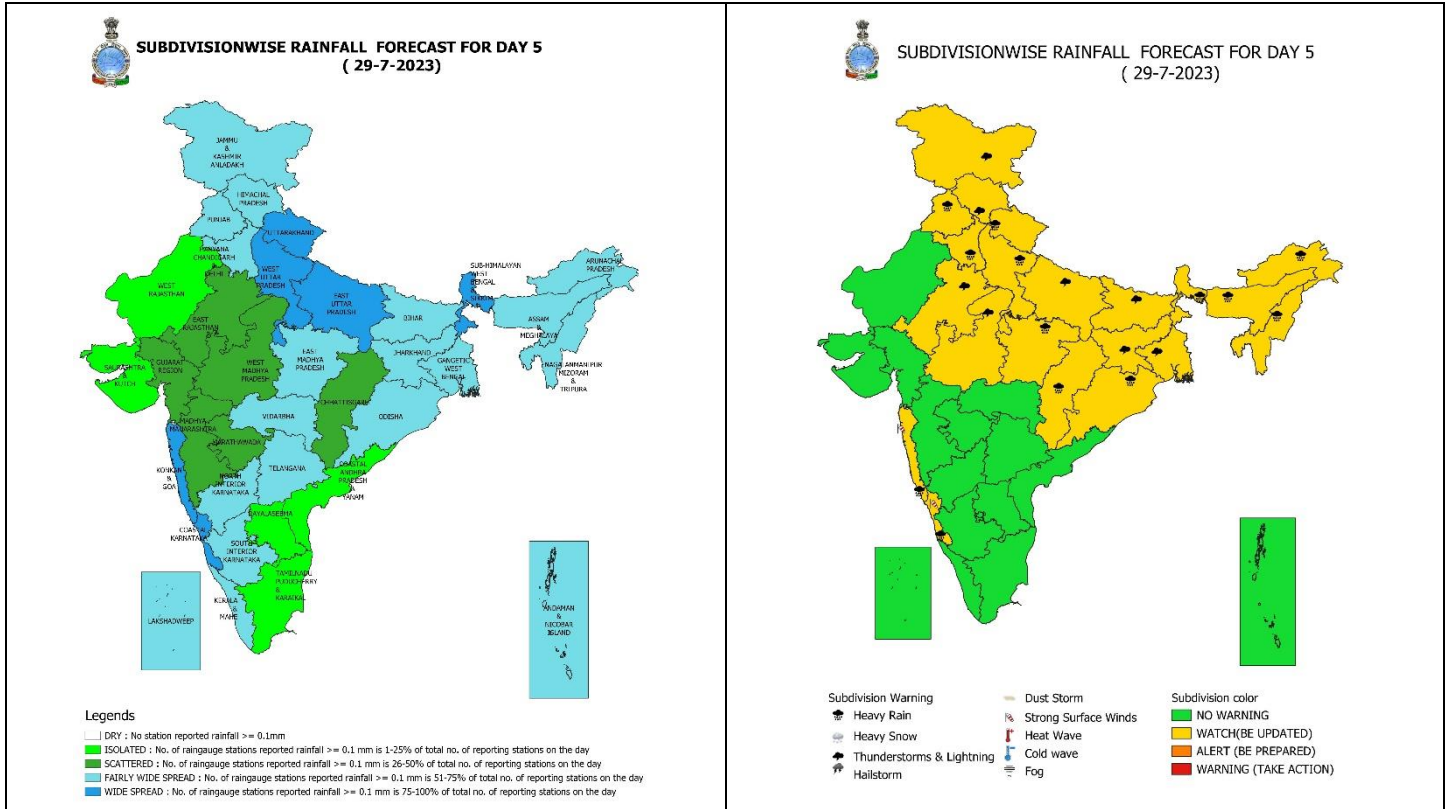
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, south Haryana, West Uttar Pradesh, East Rajasthan, Odisha, Vidarbha, Chhattisgarh, Coastal Karnataka; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, West Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Kerala & Mahe and Interior Karnataka.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** very likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand and Marathwada.
- ❖ **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 Bay of Bengal and Andaman Sea.



**27 July (Day 3):**

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Telangana; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh Sub-Himalaya West Bengal & Sikkim, Odisha, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm with Gusty winds speed 30-40 kmph** likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalaya West Bengal & Sikkim, Jharkhand and Marathwada.
- ❖ **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.





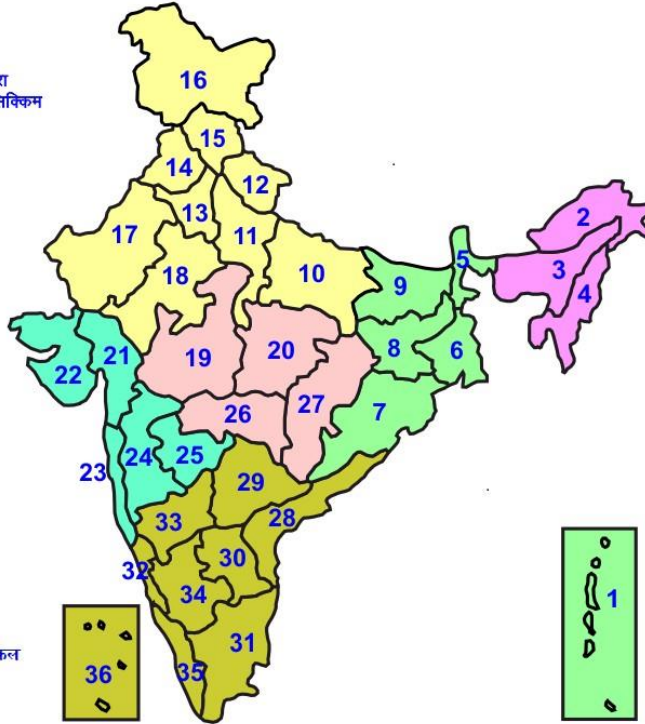
**29 July (Day 5):**

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh; **heavy rainfall** at isolated places over Assam & Meghalaya, Sub-Himalaya West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka, Odisha, Chhattisgarh, East Madhya Pradesh, West Uttar Pradesh, Haryana, Punjab and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Bihar, Jharkhand, East Uttar Pradesh, Gangetic West Bengal, West Madhya Pradesh and East Rajasthan.
- ❖ **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 & 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 ay of Bengal and wind speed reaching 40-45 kmph gusting to 55 kmph over Southwest & adjoining Southeast Bay of Bengal.



## 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. Marathawada
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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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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